ROLL NO. BY

OFFICIAL GAZETTE

UNITED STATES

PATENT OFFICE

NOV & DEC 1930

VOLS 400 & 401

MICRO — PHOTO INC

CLEVELAND 3, OHIO

7

OFFICIAL GAZETTE

OF THE

UNITED STATES PATENT OFFICE

Ia

VOLUME 400

NOVEMBER

1930

R608
13

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1930

R608
13
v. 400 Nov. 1930

35 mar. 31

CONTENTS

	Page
DECISIONS OF THE COMMISSIONER OF PATENTS, November 4, 11, 18, 25	3, 225, 463, 677
TRADE-MARKS PUBLISHED AND REGISTERED, November 4, 11, 18, 25	11, 231, 469, 683
LABELS AND PAINTS REGISTERED, November 4, 11, 18, 25	51, 280, 510, 717
REISSUES, November 4, 11, 18, 25	53, 283, 511, 719
DESIGNS, November 4, 11, 18, 25	54, 286, 513, 721
PATENTS, November 4, 11, 18, 25	67, 299, 524, 732

ANNOUNCEMENTS

	Page
ADVERSE DECISIONS IN INTERFERENCE	10, 230
APPLICATIONS—Condition of pending	2, 224, 462, 676
ATTORNEYS—Full post-office address	675
BRIEFS REQUIRED WHEN PRINTING HAS BEEN DISPENSED WITH—Final hearings	1, 223
CLASSIFICATION OF INVENTIONS—Changes in—*Order No. 3,168*	230
DESTRUCTION OF FILES—Abandoned applications—Act April 11, 1930	1, 223, 461
DISCLAIMERS—Gibbs, Walter A	1
Klos, Erwin L	468
Kroger, Grocery & Baking Company (Trade-Mark)	230
Loewy, Raymond G. F	468
Pollock, Alan Adair	468
Roberts, Millard J	230
FEES—Payment of—Rule 194	675
INTERNATIONAL CONVENTION FOR THE PROTECTION OF INDUSTRIAL PROPERTY—Adhesion France, Tunis	461
MANUSCRIPT COPIES—Instructions relative to	675
NOTICE—Number of typewritten briefs required when printing has been dispensed with—Final hearings	1, 223
PATENT SUITS	9, 229, 466, 681
PATENTS—List of adjudicated	10, 228, 468, 675
PLANT PATENTS—Facilitating consideration—*Executive Order No. 5,464*	461

TABLE OF CASES REPORTED

	Page
Arbuckle. Ex parte	3
* Bronson. In re	678
* Buchanan *v.* Burrage, Jr	6
[b] Dosch. Ex parte	677
* Engelhardt. In re	678
* Greenfield. In re	226
* Isherwood. In re	225
* Martus and Becker *v.* Heise	7
Messick. Ex parte	3
* Pierson *v.* Beck	8
[c] Reynolds Spring Co. *v.* L. A. Young Industries, Inc	464
* Rohlfs. In re	5
* Tabb. In re	4
* Wietzel and Michael. In re	463

[Decisions of the Board of Appeals are indicated by the letter (b); of the Circuit Court of Appeals by the letter (c); and of the Court of Customs and Patent Appeals by a star (*).]

ERRATA

17,862, (Reissue), page 284, in the heading, assignment, name of assignee, for "Flintkote Company, Boston, Mass., a Corporation of Massachusetts," read *The Patent and Licensing Corporation, Boston, Mass., a Corporation of Massachusetts.*

38,307 (Label), page 718, title, for "Eat Schneider's Coffee Cake," read *Eat Schwefer's Coffee Cake.*

297887

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS

Advance Machine Company, Inc., Minneapolis, Minn. Terrazzo-surfacing machines, floor-surfacing machines, etc. 276,988; Nov. 4; Serial No. 302,718; published Aug. 19, 1930. Class 23.

Advance Polishing Wheels, Inc., Chicago, Ill. Polishing wheels. 277,070; Nov. 4; Serial No. 296,468; published Aug. 19, 1930. Class 4.

Air-Way Electric Appliance Corporation, Toledo, Ohio. Apparatus for cleaning, fumigating, and controlling moths, etc. 277,112; Nov. 4; Serial No. 288,166; published Aug. 12, 1930. Class 23.

Allcock Manufacturing Co., Ossining, N. Y. Corn plasters and porous plasters. 276,965; Nov. 4; Serial No. 286,013; published Aug. 5, 1930. Class 6.

American Bank Stationery Company, Baltimore, Md. Safety and bond paper. 277,090; Nov. 4; Serial No. 289,141; published Aug. 12, 1930. Class 37.

American Cigar Company,, New York, N. Y. Cigars, cigarettes, and smoking tobacco. 277,093; Nov. 4; Serial No. 293,358; published Feb. 18, 1930. Class 17.

American Hat Co. Inc., The, Norwalk, Conn. Men's hats. 277,135; Nov. 4; Serial No. 297,647; published July 29, 1930. Class 39.

American Manganese Steel Company, Chicago Heights, Ill. Power-operated excavating dippers and parts thereof. 277,063; Nov. 4; Serial No. 300,771; published Aug. 19, 1930. Class 23.

American Mineral Spirits Co., Chicago, Ill. Naphtha for use as a thinner, as a partial substitute for toluol, etc. 277,081; Nov. 4; Serial No. 292,705; published Aug. 19, 1930. Class 16.

American Products Co., The, Cincinnati, Ohio. Shirts, caps, necktie, etc. 277,057; Nov. 4; Serial No. 299,668; published July 29, 1930. Class 39.

Angerman Co., Inc., New York, N. Y. Coats, suits, dresses, etc. 276,976; Nov. 4; Serial No. 291,547; published July 29, 1930. Class 39.

Arrowhead Springs Beverage Co., Los Angeles, Calif. Maltless beverage. 276,966; Nov. 4; Serial No. 286,409; published Aug. 13, 1929. Class 45.

Ascher, Simon, & Co., Inc., New York, N. Y. Knitted berets. 276,994; Nov. 4; Serial No. 302,208; published Aug. 12, 1930. Class 39.

Associated Apparel Industries, Inc., Chicago, Ill. Corsets, brassières, and combined corsets and brassières. 277,045; Nov. 4; Serial No. 301,551; published July 29, 1930. Class 39.

Associated Apparel Industries, Inc., Chicago, Ill. Girdles, corsets, and corset belts. 277,145; Nov. 4; Serial No. 298,736; published July 29, 1930. Class 39.

Augstein, S., & Co., New York, N. Y. Sweaters. 277,098; Nov. 4; Serial No. 300,396; published Aug. 12, 1930. Class 39.

Augstein, S., & Co., New York, N. Y. Sweaters. 277,099; Nov. 4; Serial No. 300,394; published Aug. 12, 1930. Class 39.

Beach Chemical Company, Incorporated, St. Louis, Mo. Medicines. 276,968; Nov. 4; Serial No. 288,834; published Oct. 8, 1929. Class 6.

Bedford Johnson Company, Inc., New York, N. Y. Trousers. 276,938; Nov. 4; Serial No. 284,663; published July 22, 1930. Class 39.

Big Stores Company, The, Cincinnati, Ohio. Clothing. 277,138; Nov. 4; Serial No. 296,475; published Aug. 19, 1930. Class 39.

Boss Manufacturing Company, The, Kewanee, Ill., and Brooklyn, N. Y. Gloves. 276,991; Nov. 4; Serial No. 302,527; published Aug. 12, 1930. Class 39.

Braintree Shoe Company. (See Shapiro, Samuel.)

Brill, Louis, doing business as Brill Corset Co., Philadelphia, Pa. Corsets, brassières, girdles, and garter belts. 276,986; Nov. 4; Serial No. 302,808; published Aug. 12, 1930. Class 39.

Bril-Tone Products, Inc., Chicago, Ill. Water colors, oil colors, poster colors. 276,995; Nov. 4; Serial No. 301,798; published Aug. 19, 1930. Class 16.

Brooklands Knitting Industry Limited, Altrincham, England. Knitted underwear, jumpers, cardigans, etc. 277,119; Nov. 4; Serial No. 293,869; published Aug. 5, 1930. Class 39.

Buckeye Cotton Oil Company, The, Cincinnati, Ohio. Cottonseed meal. 276,944; Nov. 4; Serial No. 292,653; published Aug. 12, 1930. Class 46.

Caldor, Earl S., doing business as Packaine French Bandeaux Co., New York, N. Y. Breast bandeaux. 277,050; Nov. 4; Serial No. 301,332; published Aug. 12, 1930. Class 39.

Cambray Clothes Inc., Syracuse, N. Y. Wearing apparel. 277,094; Nov. 4; Serial No. 300,855; published Aug. 19, 1930. Class 39.

Camel's Bell, Inc., Beachwood and Cleveland, Ohio. Finger rings, bracelets, necklaces, etc. 276,948; Nov. 4; Serial No. 281,192; published Aug. 12, 1930. Class 28.

Campari, Davide, Milan, Italy. Alcoholic cordial. 276,979; Nov. 4; Serial No. 229,661; published Aug. 19, 1930. Class 49.

Campe Corporation, The, New York, N. Y. Rayon and knit underwear. 277,104; Nov. 4; Serial No. 299,681; published Aug. 19, 1930. Class 39.

Castles Ice Cream Company, Irvington, N. J. Ice cream. 277,111; Nov. 4; Serial No. 294,573; published Aug. 19, 1930. Class 46.

Cattaraugus Cutlery Company, Little Valley, N. Y. Pocketknives and hunting knives. 277,075; Nov. 4; Serial No. 293,957; published Aug. 12, 1930. Class 28.

Cheney, S., & Son, Manlius, N. Y. Garden ornaments of cast or wrought metal. 276,951; Nov. 4; Serial No. 283,327; published Aug. 19, 1930. Class 2.

Chesapeake Shoe Manufacturing Company, The, Baltimore, Md. Boots, shoes, and slippers. 277,142; Nov. 4; Serial No. 297,727; published Aug. 12, 1930. Class 39.

Cinelli, R., Hat Co., Inc., The, New York, N. Y. Men's hats. 277,044; Nov. 4; Serial No. 301,579; published July 29, 1930. Class 39.

Clayton, William M., New York, N. Y. Periodical. 277,013–14; Nov. 4; Serial Nos. 301,580–1; published Aug. 19, 1930. Class 38.

Cobb, W. R., Company, Providence, R. I. Jewelers' findings. 276,956; Nov. 4; Serial No. 284,443; published July 29, 1930. Class 28.

Colgate-Palmolive-Peet Company, Chicago, Ill. Toilet soap, shaving cream, shaving powder, and shaving sticks. 276,981; Nov. 4; Serial No. 302,994; published Aug. 19, 1930. Class 4.

Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Buttons. 277,034–5; Nov. 4; Serial Nos. 301,850–1; published Aug. 12, 1930. Class 40.

Columbia River Paper Mills, Vancouver, Wash. Lumber. 277,033; Nov. 4; Serial No. 302,132; published Aug. 12, 1930. Class 12.

Commercial Chemicals Corporation, Philadelphia, Pa. Compounded preparation of chemicalized oils. 276,982; Nov. 4; Serial No. 302,931; published Aug. 19, 1930. Class 16.

Connell, J. M., Shoe Co., South Braintree, Mass. Boots, shoes, and slippers. 277,080; Nov. 4; Serial No. 292,980; published Aug. 5, 1930. Class 39.

Consolidated Drug Corp. (See Spencer, James W.)

Cremen, Daniel J., doing business as White Cap Co., Blackwood, N. J. Caps. 277,018; Nov. 4; Serial No. 301,015; published Aug. 12, 1930. Class 39.

Crucible Steel Company of America, New York, N. Y. Steel. 276,996; Nov. 4; Serial No. 301,410; published Aug. 19, 1930. Class 14.

Cutino Company, The. (See Hilsenbeck, L., Incorporated, assignor.)

Cutino Company, The, Kansas City, Mo. Prophylactic articles. 277,123; Nov. 4; Serial No. 283,495; published Aug. 19, 1930. Class 44.

De Lorenzo, John, Clifton, N. J. Olive oil. 277,043; Nov. 4; Serial No. 301,595; published Aug. 19, 1930. Class 46.

De Sanno, Albert P., jr., doing business as A. P. de Sanno and Son, Philadelphia, Pa. Cut-off machines and parts thereof. 277,061; Nov. 4; Serial No. 300,932; published Aug. 19, 1930. Class 23.

Diamond State Pharmacal Company, Stanton, Del. Laxatives. 277,106; Nov. 4; Serial No. 298,431; published July 29, 1930. Class 6.

Dinette, A. C., Corp., Topeka, Kans. Dining sets, dressers, cabinets, etc. 277,069; Nov. 4; Serial No. 296,732; published Aug. 12, 1930. Class 32.

Di Santo, Joseph, doing business as Di Santo & Co., Duluth, Minn. Fresh honeydew melons, carrots, cabbages, etc. 277,026; Nov. 4; Serial No. 302,459; published Aug. 19, 1930. Class 46.

Du-All Humus Co., Inc., New York, N. Y. Liquid cleaning preparation. 277,113; Nov. 4; Serial No. 287,123; published Aug. 19, 1930. Class 4.

Endicott Johnson Corporation, Endicott, N. Y. Boots, shoes, or slippers. 277,042; Nov. 4; Serial No. 301,605; published Aug. 12, 1930. Class 39.

Everlite Limited, London, England. Portable electric lamps. 276,952; Nov. 4; Serial No. 283,555; published Aug. 12, 1930. Class 21.

Fairy Brassiere Co., Inc., New York, N. Y. Brassières, girdles, and combination brassières and corsets. 277,010; Nov. 4; Serial No. 301,870; published July 29, 1930. Class 39.

Farmer's Market Bulletin Company, Des Moines, Iowa. Publication. 277,060; Nov. 4; Serial No. 300,937; published Aug. 19, 1930. Class 38.

Firestone Tire & Rubber Company, The, Akron, Ohio. Tires and tubes. 277,077; Nov. 4; Serial No. 293,267; published Aug. 12, 1930. Class 35.

Fort Wayne Engineering & Manufacturing Co., Fort Wayne, Ind. Pumps and unitary water systems. 277,062; Nov. 4; Serial No. 300,791; published Aug. 19, 1930. Class 23.

Fremont Canning Company, Fremont, Mich. Canned food products. 277,101; Nov. 4; Serial No. 300,113; published Aug. 19, 1930. Class 46.

French, R. T., Company, The, Rochester, N. Y. Paprika and other spices and prepared mustard. 277,052; Nov. 4; Serial No. 301,102; published Aug. 19, 1930. Class 46.

General Baking Company, New York, N. Y. Pies, rolls, buns, etc. 277,084; Nov. 4; Serial No. 291,613; published July 1, 1930. Class 46.
Gimbel Brothers, Inc., New York, N. Y. Coats and flying suits. 276,961; Nov. 4; Serial No. 285,080; published Aug. 5, 1930. Class 39.
Gordon-East Coast Company, Moundsville, W. Va. Suits and rompers. 277,027–8; Nov. 4; Serial Nos. 302,383–4; published Aug. 12, 1930. Class 39.
Graton & Knight Company, Worcester, Mass. Machinery belting, diaphragms, discs, etc. 276,980; Nov. 4; Serial No. 303,050; published Aug. 19, 1930. Class 35.
Greenwood Creamery Company, Greenwood, S. C. Dairy products. 277,110; Nov. 4; Serial No. 295,843; published Apr. 15, 1930. Class 46.
Grigsby-Grunow Company, Chicago, Ill. Electric radio receiving sets. 276,947; Nov. 4; Serial No. 280,842; published July 9, 1929. Class 21.
Griswold, Wade E. (See Women's Chicago Beautiful Association, assignor.)
Harron Hosiery Company, Philadelphia, Pa. Hosiery. 277,029; Nov. 4; Serial No. 302,348; published Aug. 12, 1930. Class 39.
Harry's Beauty Parlor, Inc., Brooklyn, N. Y. Permanent-hair-waving machines. 276,998; Nov. 4; Serial No. 301,173; published Aug. 19, 1930. Class 44.
Hazelton Manufacturing Company, Hazleton, Pa. Foot rests. 277,073; Nov. 4; Serial No. 294,354; published Aug. 19, 1930. Class 32.
Hettler, Herman H., Lumber Co., Chicago, Ill. Hardwood flooring. 277,047; Nov. 4; Serial No. 301,436; published Aug. 19, 1930. Class 12.
Hilam, Incorporated, Milwaukee, Wis. Electric lamps. 276,962; Nov. 4; Serial No. 285,458; published Aug. 12, 1930. Class 21.
Hilsenbeck, L., Incorporated, New York, N. Y., assignor to The Cutino Company, Kansas City, Mo. Prophylactic articles. 277,116; Nov. 4; Serial No. 285,972; published Aug. 27, 1929. Class 44.
Humble Oil & Refining Company, Houston, Tex. Work clothing. 277,134; Nov. 4; Serial No. 296,810; published Aug. 5, 1930. Class 39.
Humble Oil & Refining Company, Houston, Tex. Men's work clothing. 277,140; Nov. 4; Serial No. 296,810; published Aug. 5, 1930. Class 39.
Iceberg Manufacturing Co., Gardner, Mass. Refrigerators. 276,946; Nov. 4; Serial No. 280,064; published Aug. 19, 1930. Class 31.
Ideal Shoe Manufacturing Co., Milwaukee, Wis. Boots and shoes. 277,053; Nov. 4; Serial No. 300,946; published July 29, 1930. Class 39.
Impervious Varnish Company, Pittsburgh, Pa. Paints, paint enamels, lacquers, etc. 276,989; Nov. 4; Serial No. 302,634; published Aug. 19, 1930. Class 16.
Industrial Laboratories, Inc., Baltimore, Md. Liquid or paste metal polish. 276,999; Nov. 4; Serial No. 301,035; published Aug. 19, 1930. Class 4.
Infants Socks, Inc., New York, N. Y. Hosiery. 277,021; Nov. 4; Serial No. 302,686; published Aug. 12, 1930. Class 39.
Institution Publishing Company, Inc., The, New York, N. Y. Periodical. 277,009; Nov. 4; Serial No. 301,927; published Aug. 19, 1930. Class 38.
International Association of Municipal Electricians, Orlando, Fla. Publication. 277,074; Nov. 4; Serial No. 294,306; published Aug. 19, 1930. Class 38.
International Millinery Co. Inc., New York, N. Y. Hats. 277,008; Nov. 4; Serial No. 301,929; published July 29, 1930. Class 39.
International Millinery Co. Inc., New York, N. Y. Hats. 277,038; Nov. 4; Serial No. 301,652; published July 29, 1930. Class 39.
International Millinery Co. Inc., New York, N. Y. Hats. 277,039–40; Nov. 4; Serial Nos. 301,648–9; published July 29, 1930. Class 39.
International Millinery Co. Inc., New York, N. Y. Hats. 277,041; Nov. 4; Serial No. 301,647; published Aug. 19, 1930. Class 39.
International Silver Company, Meriden, Conn. Pewter articles of hollow ware. 276,959; Nov. 4; Serial No. 294,678; published Aug. 19, 1930. Class 13.
Jaffe-Cohen & Lang, Inc., New York, N. Y. Coats, suits, knickers, etc. 277,141; Nov. 4; Serial No. 297,972; published Aug. 12, 1930. Class 39.
Jelenko, J. F., & Co., Inc., New York, N. Y. Dental gold, dental gold solder, etc. 277,064; Nov. 4; Serial No. 299,323; published Aug. 19, 1930. Class 44.
Jeri-May Mfg. Co., Not Inc., Chicago, Ill. Frocks. 277,109; Nov. 4; Serial No. 296,423; published Aug. 19, 1930. Class 39.
Johnson-Stephens & Shinkle Shoe Company, St. Louis, Mo. Shoes. 277,012; Nov. 4; Serial No. 301,657; published Aug. 19, 1930. Class 39.
Johnson-Stephens & Shinkle Shoe Company, St. Louis, Mo. Shoes. 277,137; Nov. 4; Serial No. 294,974; published Aug. 12, 1930. Class 39.
Kabushiki Kaisha Konishi Kotakudo, Tokyo, Japan. Clocks and watches and their parts and accessories. 277,085–6; Nov. 4; Serial Nos. 291,007–8; published Aug. 19, 1930. Class 27.
Kaiser, Theodor, doing business as Friedrich Kaiser, Waiblingen, Germany. Flycatchers of paper. 277,124; Nov. 4; Serial No. 282,604; published Aug. 19, 1930. Class 50.
Keller Glove Manufacturing Co. Inc., Plumsteadville, Pa. Work gloves. 277,055; Nov. 4; Serial No. 300,632; published Aug. 5, 1930. Class 39.
Klein & Company, Newark, N. J. Hats. 277,059; Nov. 4; Serial No. 299,268; published July 29, 1930. Class 39.
Knerr & Bortz, Mount Airy, Philadelphia, Pa. Brake linings. 276,987; Nov. 4; Serial No. 302,778; published Aug. 19, 1930. Class 35.
Knights of Washington, Detroit, Mich. Periodical publications. 277,076; Nov. 4; Serial No. 293,668; published Aug. 19, 1930. Class 38.
Kodel Electric & Manufacturing Company, The, Cincinnati, Ohio. Motion-picture cameras and projectors. 277,067; Nov. 4; Serial No. 297,485; published Aug. 19, 1930. Class 26.
Krier Preserving Co., The, Belgium, Wis. Canned vegetables. 277,096–7; Nov. 4; Serial Nos. 300,634–5; published Aug. 19, 1930. Class 46.
Kroger Grocery & Baking Co., The, Cincinnati, Ohio. Candles. 276,967; Nov. 4; Serial No. 288,133; published July 29, 1930. Class 15.
Kuhls, Heima, executrix of the estate of Herman B. F. Kuhls, doing business as H. B. Fred Kuhls, Brooklyn, N. Y. Composition for glazing, caulking, pointing, etc. 277,177; Nov. 4; Serial No. 294,267; published Aug. 12, 1930. Class 12.
Kupferle, John C., Foundry Company, St. Louis, Mo. Fire hydrants, street-washer hydrants, wall hydrants, etc. 276,973; Nov. 4; Serial No. 291,227; published Aug. 12, 1930. Class 13.
Lapin Specialty Mfg. Co., Inc., New York, N. Y. Hair wavers. 277,136; Nov. 4; Serial No. 294,674; published Aug. 19, 1930. Class 40.
Lee Knitting Mills, Inc., Brooklyn, N. Y. Knitted sportwear. 277,020; Nov. 4; Serial No. 302,951; published Aug. 12, 1930. Class 39.
Le Roy Brassiere Co., Inc., New York, N. Y. Undergarments. 277,056; Nov. 4; Serial No. 299,917; published Aug. 12, 1930. Class 39.
Levy, Forman & Co., Inc., New York, N. Y. Suspending belts, hosiery, gaiters, drawers, etc. 276,942; Nov. 4; Serial No. 298,577; published July 29, 1930. Class 39.
Liberty Engineering Corp., Mount Vernon, N. Y. Spark plugs. 276,955; Nov. 4; Serial No. 284,238; published Aug. 12, 1930. Class 21.
Lindemann, Max, Berlin, Germany. Stockings, gloves, slips, etc. 277,129; Nov. 4; Serial No. 272,820; published Aug. 5, 1930. Class 39.
Litt, Charles, doing business as Litt Hat Company, Chicago, Ill. Hats. 277,011; Nov. 4; Serial No. 301,663; published July 29, 1930. Class 39.
Malden Form Brassiere Co. Inc., New York, N. Y. Brassières, girdles, and garter belts. 277,017; Nov. 4; Serial No. 301,044; published Aug. 5, 1930. Class 39.
Management Magazines, Inc., Chicago, Ill. Periodical. 277,019; Nov. 4; Serial No. 302,609; published Aug. 19, 1930. Class 38.
Manitou Mineral Water Company, The, Colorado Springs and Manitou, Colo. Natural mineral water, ginger champagne, and ginger ale. 277,127; Nov. 4; Serial No. 277,208; published Feb. 18, 1930. Class 45.
Manko, Louis H., doing business as L. H. Manko & Company, and National Summer Clothing Company, Philadelphia, Pa. Outer garments. 276,960; Nov. 4; Serial No. 285,032; published July 29, 1930. Class 39.
Melville Shoe Corporation, New York, N. Y. Shoes. 277,115; Nov. 4; Serial No. 285,980; published Aug. 5, 1930. Class 39.
Merrell-Soule Company, assignor, by mesne assignments, to Merrell-Soule Company, Inc., New York, N. Y. Milk. 277,132; Nov. 4; Serial No. 258,133; published Aug. 19, 1930. Class 46.
Merrimack Shoe Mfg. Co., The, Lowell, Mass. Footwear. 277,049; Nov. 4; Serial No. 301,353; published July 29, 1930. Class 39.
Meritol Corporation, The, Des Moines, Iowa. Syrup for coughs and colds. 276,971; Nov. 4; Serial No. 290,139; published Aug. 5, 1930. Class 6.
Miller, I., & Sons, Incorporated, Long Island City, N. Y. Shoes and hosiery. 277,007; Nov. 4; Serial No. 301,985; published Aug. 19, 1930. Class 39.
Moto Meter Gauge & Equipment Corporation, Long Island City, N. Y. Gauges, thermometers, electrical heat-measuring devices, etc. 277,065; Nov. 4; Serial No. 299,079; published Aug. 19, 1930. Class 26.
Motol, Inc., assignor to Old Guard Lubricants, Inc., New York, N. Y. Lubricating oils and greases, gasoline, etc. 276,972; Nov. 4; Serial No. 291,097; published Aug. 12, 1930. Class 15.
Naamlooze Vennootschap Eerste Nederlandsche Cement Industrie Enci, Amsterdam, Netherlands. Portland-cement blocks, Portland-cement slabs, and Portland cement. 277,103; Nov. 4; Serial No. 299,852; published Aug. 12, 1930. Class 12.
Nago Nährmittelwerke A. G., Olten, Switzerland. Dietetic foodstuffs and nutritive substances. 277,107; Nov. 4; Serial No. 298,350; published Aug. 19, 1930. Class 46.
National Summer Clothing Company. (See Manko, Louis H.)
New York Hat Stores, Los Angeles, Calif. Cravats. 277,108; Nov. 4; Serial No. 298,200; published Aug. 19, 1930. Class 39.

News Leader Company, The, Richmond, Va. Heading for its newspaper. 277,001; Nov. 4; Serial No. 302,135; published Aug. 19, 1930. Class 38.
Nirenberg & Salzman, Inc., New York, N. Y. Shirts and athletic goods. 276,975; Nov. 4; Serial No. 291,401; published Aug. 5, 1930. Class 39.
Nomorink Company. (See Von Hentschel, Egon.)
Old Guard Lubricants, Inc. (See Motol, Inc., assignor.)
Oppenheimer-Straus Company, The, Cincinnati, Ohio, assignor to Phoenix Hosiery Company, Milwaukee, Wis. Underwear. 277,095; Nov. 4; Serial No. 300,742; published Aug. 5, 1930. Class 39.
Osam Manufacturing Company, St. Louis, Mo. Wash frocks. 277,051; Nov. 4; Serial No. 301,288; published Aug. 5, 1930. Class 39.
P-M-G Metal Trust Limited, London, England. Copper, iron, and steel and alloys thereof. 277,066; Nov. 4; Serial No. 297,496; published Aug. 19, 1930. Class 14.
Packaine French Bandeaux Co. (See Caldor, Earl S.)
Paramount Corset Co., Worcester, Mas. Corsets, girdles, brassières, etc. 277,083; Nov. 4; Serial No. 292,367; published Aug. 19, 1930. Class 39.
Peckham-Foreman, Inc., New York, N. Y. Sweaters, knitted jackets, slip-overs, etc. 277,102; Nov. 4; Serial No. 299,857; published Aug. 19, 1930. Class 39.
Peggy Anne Candy Stores, Portland, Me. Candies, candied fruits, candied nuts, etc. 276,949; Nov. 4; Serial No. 281,371; published Aug. 12, 1930. Class 46.
Phillips Petroleum Company, Bartlesville, Okla. Motor-fuel oils. 276,954; Nov. 4; Serial No. 288,892; published Aug. 12, 1930. Class 15.
Phoenix Hosiery Company. (See Oppenheimer-Straus Company, The, assignor.)
Pierce-Arrow Motor Car Company, The, Buffalo, N. Y. Engine mufflers and spare parts. 277,071–2; Nov. 4; Serial Nos. 296,024–5; published Apr. 1, 1930. Class 23.
Pinder, Thomas F., Camden, N. J. Moistureproof paper for packaging purposes. 276,969; Nov. 4; Serial No. 289,247; published Aug. 19, 1930. Class 37.
Pioneer Gravel Equipment Mfg. Co., Minneapolis, Minn. Gravel equipment. 277,068; Nov. 4; Serial No. 296,769; published Aug. 19, 1930. Class 23.
Pittsburgh Shovel Company, The, Pittsburgh, Pa. Shovels, spades, and scoops. 277,088; Nov. 4; Serial No. 290,522; published Aug. 19, 1930. Class 23.
Pitzer, Frederick P., Jersey City, N. J. Periodical. 277,006; Nov. 4; Serial No. 302,010; published Aug. 19, 1930. Class 38.
Playmor Golf, Inc., New York, N. Y. Athletic or sports wearing apparel. 277,121; Nov. 4; Serial No. 284,077; published July 29, 1930. Class 39.
Polar Fur Company, Seattle, Wash. Fur coats, wraps, throws, etc. 276,990; Nov. 4; Serial No. 302,549; published Aug. 19, 1930. Class 39.
Pollard Slipshell Company, Newburyport, Mass. Protector for heels and counters of shoes. 276,992; Nov. 4; Serial No. 302,472; published Aug. 19, 1930. Class 39.
Por Larranaga Fabrica de Tabacos, Habana, Cuba. Cigars, cheroots, and little cigars. 277,130–1; Nov. 4; Serial Nos. 260,592–3; published Aug. 19, 1930. Class 17.
Protective Life Insurance Co., Birmingham, Ala. Periodical publication. 277,125; Nov. 4; Serial No. 280,571; published Aug. 12, 1930. Class 38.
Radiovisor Parent Limited, London, England. Electric street-lighting systems, electric lighting systems for buildings, etc. 276,940; Nov. 4; Serial No. 272,669; published Aug. 12, 1930. Class 21.
Reeves, J. S., & Co., Inc., Nashville, Tenn. Hosiery. 277,030; Nov. 4; Serial No. 302,333; published Aug. 12, 1930. Class 39.
Reeves, Robert C., Co., New York, N. Y. Wooden fences. 277,024; Nov. 4; Serial No. 302,610; published Aug. 12, 1930. Class 12.
Rembrandt Lamp Corporation, Chicago, Ill. Lamp shades. 276,950; Nov. 4; Serial No. 282,132; published Aug. 12, 1930. Class 34.
Republic Shirt Shops, Inc., Colorado Springs, Colo. Shirts, pajamas, neckties, etc. 277,105; Nov. 4; Serial No. 298,847; published Aug. 12, 1930. Class 39.
Rokeach, I., & Sons, Inc., Brooklyn, N. Y. Pudding. 276,941; Nov. 4; Serial No. 276,335; published Aug. 12, 1930. Class 40.
Rosenbloom, S., Baltimore, Md. Sport pants. 277,025; Nov. 4; Serial No. 302,480; published Aug. 19, 1930. Class 39.
Ross-Cordes, Ltd., Los Angeles, Calif. Hats. 276,985; Nov. 4; Serial No. 302,833; published Aug. 12, 1930. Class 39.
Samstag & Hilder Bros., Inc., New York, N. Y. Bias tape. 277,023; Nov. 4; Serial No. 302,645; published Aug. 12, 1930. Class 40.
Samuel Stores, Inc., The, New York, N. Y. Men's apparel. 277,133; Nov. 4; Serial No. 212,352; published Aug. 12, 1930. Class 39.
Sears, Roebuck & Co., Chicago, Ill. Shoes. 277,139; Nov. 4; Serial No. 296,778; published July 8, 1930. Class 39.
Shaft-Pierce Shoe Company, Faribault, Minn. Boots and shoes and sandals. 277,054; Nov. 4; Serial No. 300,817; published Aug. 19, 1930. Class 39.
Shapiro, Samuel, doing business as Braintree Shoe Company, South Braintree, Mass. Boots and shoes. 277,092; Nov. 4; Serial No. 293,935; published Aug. 5, 1930. Class 39.
Sharp Brothers, Philadelphia, Pa. Knickers and long trousers. 277,087; Nov. 4; Serial No. 290,671; published July 29, 1930. Class 39.
Sherman Manufacturing Co., Orange, N. J. House dresses and aprons. 277,091; Nov. 4; Serial No. 288,570; published Aug. 19, 1930. Class 39.
Shotwell Mfg. Co., The, Chicago, Ill. Candy bar. 276,970; Nov. 4; Serial No. 289,479; published Aug. 12, 1930. Class 46.
Siegel, M. S., & Company, Inc., New York, N. Y. Undergarments. 277,100; Nov. 4; Serial No. 300,149; published Aug. 12, 1930. Class 39.
Siemens-Planiawerke A. G. für Kohlefabrikate Berlin-Lichtenberg, Germany. Apparatus for measuring the alcohol content of fluids; crucibles, etc. 277,114; Nov. 4; Serial No. 286,843; published Aug. 12, 1930. Class 26.
Silverstein, Isidor, Inc., New York, N. Y. Coats. 277,048; Nov. 4; Serial No. 301,367; published Aug. 12, 1930. Class 39.
Société Worth, assignor to Worth, Societe Anonyme, Paris, France. Cloaks, jackets, blouses, etc. 276,978; Nov. 4; Serial No. 212,406; published July 22, 1930. Class 39.
Sneve, H. A. B., doing business as H. A. B. Sneve Company, San Francisco, Calif. Brass swivels and brass rings. 276,977; Nov. 4; Serial No. 291,893; published Aug. 19, 1930. Class 13.
Spartan Glove Company, The, Dayton, Ohio. Gloves. 277,143; Nov. 4; Serial No. 298,210; published Aug. 19, 1930. Class 39.
Spector, Abraham, Philadelphia, Pa. Needles. 277,058; Nov. 4; Serial No. 299,413; published Aug. 12, 1930. Class 40.
Spencer, James W., doing business as Consolidated Drug Corp., New Orleans, La. Food-flavoring extracts. 277,031; Nov. 4; Serial No. 302,259; published Aug. 19, 1930. Class 46.
Sporting Goods Publishing Company, The, St. Louis, Mo., New York, N. Y., and Chicago, Ill. Directory. 277,000; Nov. 4; Serial No. 302,603; published Aug. 19, 1930. Class 38.
Spraco, Inc., Somerville, Mass. Pneumatic painting and industrial surface-finishing equipment and parts thereof. 277,078–9; Nov. 4; Serial No. 293,078–9; published Aug. 19, 1930. Class 23.
Stein, A., & Company, Chicago, Ill. Dress shields. 277,032; Nov. 4; Serial No. 302,155; published Aug. 19, 1930. Class 40.
Stern, S. L., & Co., Inc., New York, N. Y. Fur-belt banding. 276,983; Nov. 4; Serial No. 302,915; published Aug. 19, 1930. Class 50.
Stokely Brothers & Company, Lonisville, Ky. Canned vegetables, tomato puree, sauerkraut, etc. 277,087; Nov. 4; Serial No. 301,724; published Aug. 19, 1930. Class 46.
Suzanne's Beauty Preparations, Inc., Philadelphia, Pa. Powder cream, face and dusting powders, etc. 276,963–4; Nov. 4; Serial Nos. 285,948–9; published Aug. 12, 1930. Class 6.
Teeple Shoe Company, Waupun, Wis. Shoes, oxfords, and boots. 277,122; Nov. 4; Serial No. 283,595; published Aug. 19, 1930. Class 39.
Teeple Shoe Company, Waupun, Wis. Shoes, oxfords, and boots. 277,144; Nov. 4; Serial No. 298,518; published Aug. 19, 1930. Class 39.
Tiefenthaler, Gustav, St. Louis, Mo. Canned malt syrup. 277,036; Nov. 4; Serial No. 301,728; published Aug. 19, 1930. Class 46.
Tork Clocks, Inc., New York, N. Y. Electrical relays. 276,974; Nov. 4; Serial No. 291,250; published July 29, 1930. Class 21.
Truline, Incorporated, Roanoke, Ala., and La Grange, Ga. Trousers, breeches, and outer wear known as shorts. 277,128; Nov. 4; Serial No. 276,670; published Aug. 19, 1930. Class 39.
Ture's Oil Company, Spokane, Wash. Gasoline, kerosene, benzine, etc. 277,126; Nov. 4; Serial No. 278,858; published Aug. 13, 1929. Class 15.
Tuthill, Harry J., Ferguson, Mo. Comic strips. 277,005; Nov. 4; Serial No. 302,095; published Aug. 19, 1930. Class 38.
United Italian Co-Operatives, Inc., Union City, N. J. Olive oil. 277,022; Nov. 4; Serial No. 302,660; published Aug. 19, 1930. Class 46.
United States Gypsum Company, Chicago, Ill. Limeproof colors and wall coatings in the nature of paint. 276,997; Nov. 4; Serial No. 301,315; published Aug. 19, 1930. Class 16.
United States Rubber Company, New York, N. Y. Raincoats. 277,016; Nov. 4; Serial No. 301,136; published Aug. 12, 1930. Class 39.
Valco Manufacturing Co. Inc., New York, N. Y. Pajamas. 276,945; Nov. 4; Serial No. 279,866; published May 14, 1929. Class 39.
Vex Sales Corporation, Chicago, Ill. Fertilizer-dispensing apparatus and parts thereof. 276,993; Nov. 4; Serial No. 302,293; published Aug. 19, 1930. Class 23.
Vitol Laboratories, Cleveland, Ohio. General tonic. 277,120; Nov. 4; Serial No. 284,708; published July 29, 1930. Class 6.

General Baking Company, New York, N. Y. Pies, rolls, buns, etc. 277,084; Nov. 4; Serial No. 291,613; published July 1, 1930. Class 46.
Gimbel Brothers, Inc., New York, N. Y. Coats and flying suits. 276,961; Nov. 4; Serial No. 285,080; published Aug. 5, 1930. Class 39.
Gordon-East Coast Company, Moundsville, W. Va. Suits and rompers. 277,027–8; Nov. 4; Serial Nos. 302,883–4; published Aug. 12, 1930. Class 39.
Graton & Knight Company, Worcester, Mass. Machinery belting, diaphragms, discs, etc. 276,980; Nov. 4; Serial No. 303,050; published Aug. 19, 1930. Class 35.
Greenwood Creamery Company, Greenwood, S. C. Dairy products. 277,110; Nov. 4; Serial No. 295,843; published Apr. 15, 1930. Class 46.
Grigsby-Grunow Company, Chicago, Ill. Electric radio receiving sets. 276,947; Nov. 4; Serial No. 280,842; published July 9, 1929. Class 21.
Griswold, Wade E. (See Women's Chicago Beautiful Association, assignor.)
Harron Hosiery Company, Philadelphia, Pa. Hosiery. 277,029; Nov. 4; Serial No. 302,348; published Aug. 12, 1930. Class 39.
Harry's Beauty Parlor, Inc., Brooklyn, N. Y. Permanent-hair-waving machines. 276,998; Nov. 4; Serial No. 301,173; published Aug. 19, 1930. Class 44.
Hazelton Manufacturing Company, Hazleton, Pa. Foot rests. 277,073; Nov. 4; Serial No. 294,354; published Aug. 19, 1930. Class 32.
Hettler, Herman H., Lumber Co., Chicago, Ill. Hardwood flooring. 277,047; Nov. 4; Serial No. 301,436; published Aug. 19, 1930. Class 12.
Hilam, Incorporated, Milwaukee, Wis. Electric lamps. 276,962; Nov. 4; Serial No. 285,458; published Aug. 12, 1930. Class 21.
Hilsenbeck, L., Incorporated, New York, N. Y., assignor to The Cutino Company, Kansas City, Mo. Prophylactic articles. 277,116; Nov. 4; Serial No. 285,972; published Aug. 27, 1929. Class 44.
Humble Oil & Refining Company, Houston, Tex. Work clothing. 277,134; Nov. 4; Serial No. 296,810; published Aug. 5, 1930. Class 39.
Humble Oil & Refining Company, Houston, Tex. Men's work clothing. 277,140; Nov. 4; Serial No. 296,810; published Aug. 5, 1930. Class 39.
Iceberg Manufacturing Co., Gardner, Mass. Refrigerators. 276,946; Nov. 4; Serial No. 280,064; published Aug. 19, 1930. Class 31.
Ideal Shoe Manufacturing Co., Milwaukee, Wis. Boots and shoes. 277,053; Nov. 4; Serial No. 300,946; published July 29, 1930. Class 39.
Impervious Varnish Company, Pittsburgh, Pa. Paints, paint enamels, lacquers, etc. 276,989; Nov. 4; Serial No. 302,634; published Aug. 19, 1930. Class 16.
Industrial Laboratories, Inc., Baltimore, Md. Liquid or paste metal polish. 276,999; Nov. 4; Serial No. 301,035; published Aug. 19, 1930. Class 4.
Infants Socks, Inc., New York, N. Y. Hosiery. 277,021; Nov. 4; Serial No. 302,686; published Aug. 12, 1930. Class 39.
Institution Publishing Company, Inc., The, New York, N. Y. Periodical. 277,009; Nov. 4; Serial No. 301,927; published Aug. 19, 1930. Class 38.
International Association of Municipal Electricians, Orlando, Fla. Publication. 277,074; Nov. 4; Serial No. 294,306; published Aug. 19, 1930. Class 38.
International Millinery Co. Inc., New York, N. Y. Hats. 277,008; Nov. 4; Serial No. 301,929; published July 29, 1930. Class 39.
International Millinery Co. Inc., New York, N. Y. Hats. 277,038; Nov. 4; Serial No. 301,652; published July 29, 1930. Class 39.
International Millinery Co. Inc., New York, N. Y. Hats. 277,039–40; Nov. 4; Serial Nos. 301,648–9; published July 29, 1930. Class 39.
International Millinery Co. Inc., New York, N. Y. Hats. 277,041; Nov. 4; Serial No. 301,647; published Aug. 19, 1930. Class 39.
International Silver Company, Meriden, Conn. Pewter articles of hollow ware. 276,959; Nov. 4; Serial No. 294,678; published Aug. 19, 1930. Class 13.
Jaffe-Cohen & Lang, Inc., New York, N. Y. Coats, suits, knickers, etc. 277,141; Nov. 4; Serial No. 297,972; published Aug. 12, 1930. Class 39.
Jelenko, J. F., & Co., Inc., New York, N. Y. Dental gold, dental gold solder, etc. 277,064; Nov. 4; Serial No. 299,323; published Aug. 19, 1930. Class 44.
Jerl-May Mfg. Co., Not Inc., Chicago, Ill. Frocks. 277,109; Nov. 4; Serial No. 296,423; published Aug. 19, 1930. Class 39.
Johnson-Stephens & Shinkle Shoe Company, St. Louis, Mo. Shoes. 277,012; Nov. 4; Serial No. 301,657; published Aug. 19, 1930. Class 39.
Johnson-Stephens & Shinkle Shoe Company, St. Louis, Mo. Shoes. 277,137; Nov. 4; Serial No. 294,974; published Aug. 12, 1930. Class 39.
Kabushiki Kaisha Konishi Kotakudo, Tokyo, Japan. Clocks and watches and their parts and accessories. 277,085–6; Nov. 4; Serial Nos. 291,007–8; published Aug. 19, 1930. Class 27.
Kaiser, Theodor, doing business as Friedrich Kaiser, Waiblingen, Germany. Flycatchers of paper. 277,124; Nov. 4; Serial No. 282,604; published Aug. 19, 1930. Class 50.
Keller Glove Manufacturing Co. Inc., Plumsteadville, Pa. Work gloves. 277,055; Nov. 4; Serial No. 300,632; published Aug. 5, 1930. Class 39.
Klein & Company, Newark, N. J. Hats. 277,059; Nov. 4; Serial No. 299,268; published July 29, 1930. Class 39.
Knerr & Bortz, Mount Airy, Philadelphia, Pa. Brake linings. 276,987; Nov. 4; Serial No. 302,778; published Aug. 19, 1930. Class 35.
Knights of Washington, Detroit, Mich. Periodical publications. 277,076; Nov. 4; Serial No. 293,668; published Aug. 19, 1930. Class 38.
Kodel Electric & Manufacturing Company, The, Cincinnati, Ohio. Motion-picture cameras and projectors. 277,067; Nov. 4; Serial No. 297,485; published Aug. 19, 1930. Class 26.
Krier Preserving Co., The, Belgium, Wis. Canned vegetables. 277,096–7; Nov. 4; Serial Nos. 300,634–5; published Aug. 19, 1930. Class 46.
Kroger Grocery & Baking Co., The, Cincinnati, Ohio. Candles. 276,967; Nov. 4; Serial No. 288,133; published July 29, 1930. Class 15.
Kuhls, Helma, executrix of the estate of Herman B. F. Kuhls, doing business as H. B. Fred Kuhls, Brooklyn, N. Y. Composition for glazing, caulking, pointing, etc. 277,177; Nov. 4; Serial No. 294,267; published Aug. 12, 1930. Class 12.
Kupferle, John C., Foundry Company, St. Louis, Mo. Fire hydrants, street-washer hydrants, wall hydrants, etc. 276,973; Nov. 4; Serial No. 291,227; published Aug. 12, 1930. Class 13.
Lapin Specialty Mfg. Co., Inc., New York, N. Y. Hair wavers. 277,136; Nov. 4; Serial No. 294,674; published Aug. 19, 1930. Class 40.
Lee Knitting Mills, Inc., Brooklyn, N. Y. Knitted sportwear. 277,020; Nov. 4; Serial No. 302,951; published Aug. 12, 1930. Class 39.
Le Roy Brassiere Co., Inc., New York, N. Y. Undergarments. 277,056; Nov. 4; Serial No. 299,917; published Aug. 12, 1930. Class 39.
Levy, Forman & Co., Inc., New York, N. Y. Suspending belts, hosiery, gaiters, drawers, etc. 276,942; Nov. 4; Serial No. 298,577; published July 29, 1930. Class 39.
Liberty Engineering Corp., Mount Vernon, N. Y. Spark plugs. 276,955; Nov. 4; Serial No. 284,238; published Aug. 12, 1930. Class 21.
Lindemann, Max, Berlin, Germany. Stockings, gloves, slips, etc. 277,129; Nov. 4; Serial No. 272,820; published Aug. 5, 1930. Class 39.
Litt, Charles, doing business as Litt Hat Company, Chicago, Ill. Hats. 277,011; Nov. 4; Serial No. 301,663; published July 29, 1930. Class 39.
Malden Form Brassiere Co. Inc., New York, N. Y. Brassières, girdles, and garter belts. 277,017; Nov. 4; Serial No. 301,044; published Aug. 5, 1930. Class 39.
Management Magazines, Inc., Chicago, Ill. Periodical. 277,019; Nov. 4; Serial No. 302,609; published Aug. 19, 1930. Class 38.
Manitou Mineral Water Company, The, Colorado Springs and Manitou, Colo. Natural mineral water, ginger champagne, and ginger ale. 277,127; Nov. 4; Serial No. 277,208; published Feb. 18, 1930. Class 45.
Manko, Louis H., doing business as L. H. Manko & Company, and National Summer Clothing Company, Philadelphia, Pa. Outer garments. 276,960; Nov. 4; Serial No. 285,032; published July 29, 1930. Class 39.
Melville Shoe Corporation, New York, N. Y. Shoes. 277,115; Nov. 4; Serial No. 285,980; published Aug. 5, 1930. Class 39.
Merrell-Soule Company, assignor, by mesne assignments, to Merrell-Soule Company, Inc., New York, N. Y. Milk. 277,132; Nov. 4; Serial No. 258,133; published Aug. 19, 1930. Class 46.
Merrimack Shoe Mfg. Co., The, Lowell, Mass. Footwear. 277,049; Nov. 4; Serial No. 301,353; published July 29, 1930. Class 39.
Meritol Corporation, The, Des Moines, Iowa. Syrup for coughs and colds. 276,971; Nov. 4; Serial No. 290,139; published Aug. 5, 1930. Class 6.
Miller, I., & Sons, Incorporated, Long Island City, N. Y. Shoes and hosiery. 277,007; Nov. 4; Serial No. 301,985; published Aug. 19, 1930. Class 39.
Moto Meter Gauge & Equipment Corporation, Long Island City, N. Y. Gauges, thermometers, electrical heat-measuring devices, etc. 277,065; Nov. 4; Serial No. 299,079; published Aug. 19, 1930. Class 26.
Motol, Inc., assignor to Old Guard Lubricants, Inc., New York, N. Y. Lubricating oils and greases, gasoline, etc. 276,972; Nov. 4; Serial No. 291,097; published Aug. 12, 1930. Class 15.
Naamlooze Vennootschap Eerste Nederlandsche Cement Industrie Encl, Amsterdam, Netherlands. Portland-cement blocks, Portland-cement slabs, and Portland cement. 277,103; Nov. 4; Serial No. 299,852; published Aug. 12, 1930. Class 12.
Nago Nährmittelwerke A. G., Olten, Switzerland. Dietetic foodstuffs and nutritive substances. 277,107; Nov. 4; Serial No. 298,350; published Aug. 19, 1930. Class 46.
National Summer Clothing Company. (See Manko, Louis H.)
New York Hat Stores, Los Angeles, Calif. Cravats. 277,108; Nov. 4; Serial No. 298,200; published Aug. 19, 1930. Class 39.

News Leader Company, The, Richmond, Va. Heading for its newspaper. 277,001; Nov. 4; Serial No. 302,135; published Aug. 19, 1930. Class 38.
Nirenberg & Salzman, Inc., New York, N. Y. Shirts and athletic goods. 276,975; Nov. 4; Serial No. 291,401; published Aug. 5, 1930. Class 39.
Nomorink Company. (See Von Hentschel, Egon.)
Old Guard Lubricants, Inc. (See Motol, Inc., assignor.)
Oppenheimer-Straus Company, The, Cincinnati, Ohio, assignor to Phoenix Hosiery Company, Milwaukee, Wis. Underwear. 277,095; Nov. 4; Serial No. 300,742; published Aug. 5, 1930. Class 39.
Osam Manufacturing Company, St. Louis, Mo. Wash frocks. 277,051; Nov. 4; Serial No. 301,288; published Aug. 5, 1930. Class 39.
P-M-G Metal Trust Limited, London, England. Copper, iron, and steel and alloys thereof. 277,066; Nov. 4; Serial No. 297,490; published Aug. 19, 1930. Class 14.
Packaine French Bandeaux Co. (See Caldor, Earl S.)
Paramount Corset Co., Worcester, Mass. Corsets, girdles, brassières, etc. 277,083; Nov. 4; Serial No. 292,367; published Aug. 19, 1930. Class 39.
Peckham-Foreman, Inc., New York, N. Y. Sweaters, knitted jackets, slip-overs, etc. 277,102; Nov. 4; Serial No. 299,857; published Aug. 19, 1930. Class 39.
Peggy Anne Candy Stores, Portland, Me. Candies, candied fruits, candied nuts, etc. 276,949; Nov. 4; Serial No. 281,871; published Aug. 12, 1930. Class 46.
Phillips Petroleum Company, Bartlesville, Okla. Motor-fuel oils. 276,954; Nov. 4; Serial No. 283,892; published Aug. 12, 1930. Class 15.
Phoenix Hosiery Company. (See Oppenheimer-Straus Company, The, assignor.)
Pierce-Arrow Motor Car Company, The, Buffalo, N. Y. Engine mufflers and spare parts. 277,071–2; Nov. 4; Serial Nos. 296,024–5; published Apr. 1, 1930. Class 23.
Pinder, Thomas F., Camden, N. J. Moistureproof paper for packaging purposes. 276,969; Nov. 4; Serial No. 289,247; published Aug. 19, 1930. Class 37.
Pioneer Gravel Equipment Mfg. Co., Minneapolis, Minn. Gravel equipment. 277,068; Nov. 4; Serial No. 296,769; published Aug. 19, 1930. Class 23.
Pittsburgh Shovel Company, The, Pittsburgh, Pa. Shovels, spades, and scoops. 277,088; Nov. 4; Serial No. 290,522; published Aug. 19, 1930. Class 23.
Pitzer, Frederick P., Jersey City, N. J. Periodical. 277,006; Nov. 4; Serial No. 302,010; published Aug. 19, 1930. Class 38.
Playmor Golf, Inc., New York, N. Y. Athletic or sports wearing apparel. 277,121; Nov. 4; Serial No. 284,077; published July 29, 1930. Class 39.
Polar Fur Company, Seattle, Wash. Fur coats, wraps, throws, etc. 276,990; Nov. 4; Serial No. 302,549; published Aug. 19, 1930. Class 39.
Pollard Slipshell Company, Newburyport, Mass. Protector for heels and counters of shoes. 276,992; Nov. 4; Serial No. 302,472; published Aug. 19, 1930. Class 39.
Por Larranaga Fabrica de Tabacos, Habana, Cuba. Cigars, cheroots, and little cigars. 277,130–1; Nov. 4; Serial Nos. 260,592–3; published Aug. 19, 1930. Class 17.
Protective Life Insurance Co., Birmingham, Ala. Periodical publication. 277,125; Nov. 4; Serial No. 280,571; published Aug. 12, 1930. Class 38.
Radiovisor Parent Limited, London, England. Electric street-lighting systems, electric lighting systems for buildings, etc. 276,940; Nov. 4; Serial No. 272,669; published Aug. 12, 1930. Class 21.
Reeves, J. S., & Co., Inc., Nashville, Tenn. Hosiery. 277,030; Nov. 4; Serial No. 302,333; published Aug. 12, 1930. Class 39.
Reeves, Robert C., Co., New York, N. Y. Wooden fences. 277,024; Nov. 4; Serial No. 302,610; published Aug. 12, 1930. Class 12.
Rembrandt Lamp Corporation, Chicago, Ill. Lamp shades. 276,950; Nov. 4; Serial No. 282,132; published Aug. 12, 1930. Class 34.
Republic Shirt Shops, Inc., Colorado Springs, Colo. Shirts, pajamas, neckties, etc. 277,105; Nov. 4; Serial No. 298,847; published Aug. 12, 1930. Class 39.
Rokeach, I., & Sons, Inc., Brooklyn, N. Y. Pudding. 276,941; Nov. 4; Serial No. 276,335; published Aug. 12, 1930. Class 40.
Rosenbloom, S., Baltimore, Md. Sport pants. 277,025; Nov. 4; Serial No. 302,480; published Aug. 19, 1930. Class 39.
Ross-Cordes, Ltd., Los Angeles, Calif. Hats. 276,985; Nov. 4; Serial No. 302,833; published Aug. 12, 1930. Class 39.
Samstag & Hilder Bros., Inc., New York, N. Y. Bias tape. 277,023; Nov. 4; Serial No. 302,645; published Aug. 12, 1930. Class 40.
Samuel Stores, Inc., The, New York, N. Y. Men's apparel. 277,133; Nov. 4; Serial No. 212,352; published Aug. 12,1930. Class 39.
Sears, Roebuck & Co., Chicago, Ill. Shoes. 277,139; Nov. 4; Serial No. 296,778; published July 8, 1930. Class 39.
Shaft-Pierce Shoe Company, Faribault, Minn. Boots and shoes and sandals. 277,054; Nov. 4; Serial No. 300,817; published Aug. 19, 1930. Class 39.
Shapiro, Samuel, doing business as Braintree Shoe Company, South Braintree, Mass. Boots and shoes. 277,092; Nov. 4; Serial No. 293,935; published Aug. 5, 1930. Class 39.
Sharp Brothers, Philadelphia, Pa. Knickers and long trousers. 277,087; Nov. 4; Serial No. 290,071; published July 29, 1930. Class 39.
Sherman Manufacturing Co., Orange, N. J. House dresses and aprons. 277,091; Nov. 4; Serial No. 288,570; published Aug. 19, 1930. Class 39.
Shotwell Mfg. Co., The, Chicago, Ill. Candy bar. 276,970; Nov. 4; Serial No. 289,479; published Aug. 12, 1930. Class 46.
Siegel, M. S., & Company, Inc., New York, N. Y. Undergarments. 277,100; Nov. 4; Serial No. 300,149; published Aug. 12, 1930. Class 39.
Siemens-Planiawerke A. G. fur Kohlefabrikate Berlin-Lichtenberg, Germany. Apparatus for measuring the alcohol content of fluids; crucibles, etc. 277,114; Nov. 4; Serial No. 286,343; published Aug. 12, 1930. Class 26.
Silverstein, Isidor, Inc., New York, N. Y. Coats. 277,048; Nov. 4; Serial No. 301,367; published Aug. 12, 1930. Class 39.
Société Worth, assignor to Worth, Societe Anonyme, Paris, France. Cloaks, jackets, blouses, etc. 276,978; Nov. 4; Serial No. 212,406; published July 22, 1930. Class 39.
Sneve, H. A. B., doing business as H. A. B. Sneve Company, San Francisco, Calif. Brass swivels and brass rings. 276,977; Nov. 4; Serial No. 291,893; published Aug. 19, 1930. Class 13.
Spartan Glove Company, The, Dayton, Ohio. Gloves. 277,143; Nov. 4; Serial No. 298,210; published Aug. 19, 1930. Class 39.
Spector, Abraham, Philadelphia, Pa. Needles. 277,058; Nov. 4; Serial No. 299,413; published Aug. 12, 1930. Class 40.
Spencer, James W., doing business as Consolidated Drug Corp., New Orleans, La. Food-flavoring extracts. 277,031; Nov. 4; Serial No. 302,269; published Aug. 19, 1930. Class 46.
Sporting Goods Publishing Company, The, St. Louis, Mo., New York, N. Y., and Chicago, Ill. Directory. 277,000; Nov. 4; Serial No. 302,603; published Aug. 19, 1930. Class 38.
Spraco, Inc., Somerville, Mass. Pneumatic painting and industrial surface-finishing equipment and parts thereof. 277,078–9; Nov. 4; Serial No. 293,078–9; published Aug. 19, 1930. Class 23.
Stein, A., & Company, Chicago, Ill. Dress shields. 277,032; Nov. 4; Serial No. 302,155; published Aug. 19, 1930. Class 40.
Stern, S. L., & Co., Inc., New York, N. Y. Fur-belt banding. 276,983; Nov. 4; Serial No. 302,915; published Aug. 19, 1930. Class 50.
Stokely Brothers & Company, Louisville, Ky. Canned vegetables, tomato purée, sauerkraut, etc. 277,087; Nov. 4; Serial No. 301,724; published Aug. 19, 1930. Class 46.
Suzanne's Beauty Preparations, Inc., Philadelphia, Pa. Powder cream, face and dusting powders, etc. 276,963–4; Nov. 4; Serial Nos. 285,948–9; published Aug. 12, 1930. Class 6.
Teeple Shoe Company, Waupun, Wis. Shoes, oxfords, and boots. 277,122; Nov. 4; Serial No. 283,595; published Aug. 19, 1930. Class 39.
Teeple Shoe Company, Waupun, Wis. Shoes, oxfords, and boots. 277,144; Nov. 4; Serial No. 298,518; published Aug. 19, 1930. Class 39.
Tiefenthaler, Gustav, St. Louis, Mo. Canned malt syrup. 277,036; Nov. 4; Serial No. 301,728; published Aug. 19, 1930. Class 46.
Tork Clocks, Inc., New York, N. Y. Electrical relays. 276,974; Nov. 4; Serial No. 291,250; published July 29, 1930. Class 21.
Truline, Incorporated, Roanoke, Ala., and La Grange, Ga. Trousers, breeches, and outer wear known as shorts. 277,128; Nov. 4; Serial No. 276,670; published Aug. 19, 1930. Class 39.
Ture's Oil Company, Spokane, Wash. Gasoline, kerosene, benzine, etc. 277,126; Nov. 4; Serial No. 278,858; published Aug. 13, 1929. Class 15.
Tuthill, Harry J., Ferguson, Mo. Comic strips. 277,005; Nov. 4; Serial No. 302,095; published Aug. 19, 1930. Class 38.
United Italian Co-Operatives, Inc., Union City, N. J. Olive oil. 277,022; Nov. 4; Serial No. 302,660; published Aug. 19, 1930. Class 46.
United States Gypsum Company, Chicago, Ill. Limeproof colors and wall coatings in the nature of paint. 276,997; Nov. 4; Serial No. 301,315; published Aug. 19, 1930. Class 16.
United States Rubber Company, New York, N. Y. Raincoats. 277,016; Nov. 4; Serial No. 301,136; published Aug. 12, 1930. Class 39.
Valco Manufacturing Co. Inc., New York, N. Y. Pajamas. 276,945; Nov. 4; Serial No. 279,366; published May 14, 1929. Class 39.
Vex Sales Corporation, Chicago, Ill. Fertilizer-dispensing apparatus and parts thereof. 276,993; Nov. 4; Serial No. 302,293; published Aug. 19, 1930. Class 23.
Vitol Laboratories, Cleveland, Ohio. General tonic. 277,120; Nov. 4; Serial No. 284,708; published July 29, 1930. Class 6.

Von Hentschel, Egon, doing business as Nomorink Company, Los Angeles, Calif. Pens and artists' colored pen sets. 276,957; Nov. 4; Serial No. 284,553; published Aug. 19, 1930. Class 37.
Walsh, George F., New York, N. Y. Shoes. 277,118; Nov. 4; Serial No. 293,992; published Aug. 12, 1930. Class 39.
Washburn Company, The, Worcester, Mass. Kitchen and household tools or utensils. 277,082; Nov. 4; Serial No. 292,562; published Aug. 12, 1930. Class 23.
Washburn Company, The, Worcester, Mass. Kitchen and household tools or utensils. 277,089; Nov. 4; Serial No. 290,203; published Aug. 12, 1930. Class 23.
West Coast Knitting Mills, Los Angeles, Calif. Bathing suits, swimming suits, and underwear. 277,046; Nov. 4; Serial No. 301,540; published Aug. 19, 1930. Class 39.
White Cap Co. (See Cremen, Daniel J.)
Whitewashed Stable Furniture Company, Inc., Brooklyn, N. Y. Household furniture. 276,984; Nov. 4; Serial No. 302,845; published Aug. 19, 1930. Class 32.
Wolo Ltd., Zurich, Switzerland. Products for the preparation of white-pine-needle baths. 276,953; Nov. 4; Serial No. 283,833; published Aug. 5, 1930. Class 6.
Women's Chicago Beautiful Association, assignor to Wade E. Griswold, Chicago, Ill. Periodical publications. 277,015; Nov. 4; Serial No. 301,544; published Aug. 19, 1930. Class 38.
Woodbury Shoe Mfg. Co., Derry, N. H. Boots, shoes, sandals, and slippers. 277,004; Nov. 4; Serial No. 302,114; published July 29, 1930. Class 39.
Worth, Societe Anonyme. (See Société Worth, assignor.)
Wright, Stephenson & Co., Limited, Wellington, New Zealand. Benzine, gasoline, etc. 276,943; Nov. 4; Serial No. 292,477; published July 29, 1930. Class 15.
Zwiebelson, Abraham, New York, N. Y. Brassières and corsets. 277,002; Nov. 4; Serial No. 302,127; published Aug. 19, 1930. Class 39.
Zwiebelson, Abraham, New York, N. Y. Brassières and corsets. 277,003; Nov. 4; Serial No. 302,122; published Aug. 19, 1930. Class 39.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS

Annette's Perfect Cleanser Company, Boston, Mass. Annette's Perfect Cleanser. For Powder Cleanser. 38,181; Nov. 4.
Aoyama, Y., doing business as Y. Aoyama Company, Brawley, Calif. Twin Seven. For Melons and Vegetables. 38,182; Nov. 4.
Arena, A., & Co., Ltd., Los Angeles, Calif. Arenas. For Fresh Fruits and Fresh Vegetables. 38,183; Nov. 4.
Cera-Lac Company, The, Los Angeles, Calif. Cera-Lac Wonder Flour. For Flour. 38,184; Nov. 4.
Chicaco Macaroni Co., Chicago, Ill. Big 3. For Spaghetti. 38,185; Nov. 4.
Continental Oil Company, New York, N. Y. Nox-Fly. For Chemical Compound Used as a Spray Against Flies and Other Insects. 38,186; Nov. 4.
Derry's Bakery. (See Menasha Products Company, The, assignor.)
Euclid Coffee Company, The, Cleveland, Ohio. Big Hit. For Coffee. 38,187; Nov. 4.
Galli, Mme., Inc., Chicago, Ill. Mme. Galli Famous Spaghetti Sauce. For Spaghetti Sauce. 38,188; Nov. 4.
General Baking Company, New York, N. Y. Sliced Bond Bread. For Bread. 38,189; Nov. 4.
Globe Milling Company, Watertown, Wis. Viking. For Rye. 38,190; Nov. 4.
Gosman Company, The, Baltimore, Md. Gosman's. For Ginger-Flavored Medicinal Product. 38,191; Nov. 4.
Lambooy Label and Wrapper Co., Kalamazoo, Mich. No. CB-331. For Wrapped Cakes. 38,192; Nov. 4.
Lambooy Label and Wrapper Co., Kalamazoo, Mich. No. CB-332. For Wrapped Cakes. 38,193; Nov. 4.
Lambooy Label and Wrapper Co., Kalamazoo, Mich. No. CB-333. For Wrapped Rolls. 38,194; Nov. 4.
Lambooy Label and Wrapper Co., Kalamazoo, Mich. No. CB-334. For Wrapped Cakes. 38,195; Nov. 4.
Lambooy Label and Wrapper Co., Kalamazoo, Mich. No. CB-335. For Wrapped Cakes. 38,196; Nov. 4.
Lambooy Label and Wrapper Co., Kalamazoo, Mich. No. CB-336. For Wrapped Cakes. 38,197; Nov. 4.
Lambooy Label and Wrapper Co., Kalamazoo, Mich. No. CB-337. For Wrapped Jelly Rolls. 38,198; Nov. 4.
Lambooy Label and Wrapper Co., Kalamazoo, Mich. No. CB-338. For Wrapped Cakes. 38,199; Nov. 4.
Lambooy Label and Wrapper Co., Kalamazoo, Mich. No. CB-339. For Wrapped Cakes. 38,200; Nov. 4.
Lambooy Label and Wrapper Co., Kalamazoo, Mich. No. CB-340. For Wrapped Cakes. 38,201; Nov. 4.
Lambooy Label and Wrapper Co., Kalamazoo, Mich. No. CB-341. For Wrapped Cakes. 38,202; Nov. 4.
Lambooy Label and Wrapper Co., Kalamazoo, Mich. No. CB-342. For Wrapped Cakes. 38,203; Nov. 4.
Lambooy Label and Wrapper Co., Kalamazoo, Mich. No. CB-330. For Wrapped Doughnuts. 38,204; Nov. 4.
Lambooy Label and Wrapper Co., Kalamazoo, Mich. No. CB-343. For Wrapped Tea Biscuits. 38,205; Nov. 4.
Lantz Bros. Baking Co., St. Louis, Mo. Grandma's Honey Crisp Potato Chips. For Potato Chips. 38,206; Nov. 4.
Leavitt, Louis, Brooklyn, N. Y. Formost Four Hour Enamel. For Paint. 38,207; Nov. 4.
Mackenzie, Robt. F., Co., The, Cleveland, Ohio. Grand Slam. For Candy. 38,208; Nov. 4.
Menasha Products Company, The, Chicago, Ill., assignor to Derry's Bakery, Arkansas City, Kans. Mother's Big Boy. For Bread. 38,209; Nov. 4.
Ogilvie Sisters, New York, N. Y. Peche Hand Cream. For a Cream for the Hands. 38,210; Nov. 4.
Philadelphia Malt Extract Co., Philadelphia, Pa. Champton. For Malt Syrup. 38,211; Nov. 4.
Puffer, W. E., Glendale, Calif. Yesteriald Better Eggs. For Eggs. 38,212; Nov. 4.
Rath Packing Company, The, Waterloo, Iowa. Rath's Black Hawk Ham. For Cooked and Tinned Ham. 38,213; Nov. 4.
Rawleigh, W. T., Company, The, Freeport, Ill. Rawleigh's Ideal Fly Repellent. For Liquid Fly Repellent. 38,214; Nov. 4.
Rogers, Alfred D., doing business as Rogers Products Manufacturing Company, Pink Hill, N. C. Rogers Products Banishes Many Pains and Ills. For Medicinal Products. 38,215; Nov. 4.
Root, A. I., Company, The, Medina, Ohio. Ski-Scraper Blocks. For Children's Toy Building Blocks. 38,216; Nov. 4.
Russo, A., & Co., Chicago, Ill. Russo Italian Macaroni. For Macaroni. 38,217; Nov. 4.
Shawmut Mills, Holliston, Mass. Picnic Bread. For Bread. 38,218; Nov. 4.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS

Arden, Elizabeth, Inc., New York, N. Y. Elizabeth Arden Will do These Lovely Things for Your Skin. For Cleansing Cream, Skin Tonic, Vulva Cream, Orange Skin Food, Pore Cream, Antiwrinkle Cream, and Muscle Oil. 12,772; Nov. 4.
Cream of Wheat Corporation, The, Minneapolis, Minn. She Has So Many Things That City Children Miss. For Wheat Breakfast Food. 12,773; Nov. 4.
Dixie, Charles, Dallas, Tex. The Chickenette. For Foods Specially Prepared from Chicken Meat. 12,774; Nov. 4.
Jayne, Harold B., New York, N. Y. Lucky Breaks—Short Title Breaks. For Cigarettes. 12,775; Nov. 4.
Larned, Carter & Co., Detroit, Mich. Headlight Zip-It. For Overalls. 12,776; Nov. 4.
Limber, L. L., Franklin, Pa. Uncle Limber's Golden Rule Bread. For Bread. 12,777; Nov. 4.
Perpetual Self Winding Watch Company of America, Inc., New York, N. Y. The Watch You Can Forget to Wind. For Self-Winding Watches. 12,778; Nov. 4.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Camels Are Made to Smoke. For Cigarettes. 12,779; Nov. 4.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Camel—A Promise of Pleasure. For Cigarettes. 12,780; Nov. 4.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. The Smoke's the Thing. For Cigarettes. 12,781; Nov. 4.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Don't Deny Yourself This Luxury. For Cigarettes. 12,782; Nov. 4.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Camel—Made to Smoke. For Cigarettes. 12,783; Nov. 4.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. As Portia Said to Shylock. For Cigarettes. 12,784; Nov. 4.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Juliet Supplied the Balcony, Romeo the Camels. For Cigarettes. 12,785; Nov. 4.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Without Benefit of Bologna. For Cigarettes. 12,786; Nov. 4.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Brim-Full of the Goodness That Sunshine Gives. For Cigarettes. 12,787; Nov. 4.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. The Honest Reason. For Cigarettes. 12,788; Nov. 4.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. The Basis of Leadership. For Cigarettes. 12,789; Nov. 4.

Shell Eastern Petroleum Products, Inc., New York, N. Y. Labor Day Week-End . . . Oh Boy! For Shell Gasoline. 12,790; Nov. 4.
Shell Eastern Petroleum Products, Inc., New York, N. Y. Why Eat Dust? For Gasoline. 12,791; Nov. 4.
Shell Eastern Petroleum Products, Inc., New York, N. Y. Who Says So? For Gasoline. 12,792; Nov. 4.
Shell Eastern Petroleum Products, Inc., New York, N. Y. And They Keep On Coming—. For Gasoline. 12,793; Nov. 4.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Adams, William H., Kenyon, R. I. Textile rugs. 305,599; Nov. 4. Class 42.
Adjusta Co., New York, N. Y. Belt buckles. 299,102; Nov. 4. Class 40.
Air-Way Super Heater Company, The, Lexington, Ky. Coal-burning heaters, stoves, and furnaces. 299,361; Nov. 4. Class 34.
Aluminum Company of America, Pittsburgh, Pa. Aluminum bronze powder. 296,847; Nov. 4. Class 16.
American Austin Car Company, Inc., Butler, Pa. Motor vehicles. 304,852; Nov. 4. Class 19.
American Mills Company, The, Waterbury, Conn. Elastic fabric and webbing. 305,384; Nov. 4. Class 42.
American Spectacle Company, Inc., New York, N. Y. Optical goods. 305,840; Nov. 4. Class 26.
American Tobacco Company, The, New York, N. Y. Cigars. 302,228; Nov. 4. Class 17.
Amtorg Trading Corporation, New York, N. Y. Candy. 278,425; Nov. 4. Class 46.
Apex Electrical Manufacturing Company, Cleveland, Ohio. Radio receiving sets, short-wave adapters, radio frequency boosters, etc. 295,324; Nov. 4. Class 21.
Archer Rubber Company, Milford, Mass. Raincoats, rain jackets, waterproof hats, etc. 262,545; Nov. 4. Class 39.
Asepar Co., The. (See Ruegg, Carl A.)
Atwood Machine Company, The, Stonington, Conn. Spinning and twisting spindles. 305,842–5; Nov. 4. Class 23.
Bantam Ball Bearing Company, The, South Bend, Ind. Antifriction bearings. 303,871; Nov. 4. Class 23.
Bassett, Jay B., Beverly Hills, Calif. Portable golf games. 303,872; Nov. 4. Class 22.
Bear Mill Manufacturing Co. Inc., New York, N. Y. Cotton piece goods. 304,793; Nov. 4. Class 42.
Beefex Limited, London, England. Meat extract. 303,623; Nov. 4. Class 46.
Best Brothers Keene's Cement Company, The, Medicine Lodge, Kans. Plaster. 296,627; Nov. 4. Class 12.
Bigelow, Burton, Buffalo, N. Y. Section of a publication. 305,654; Nov. 4. Class 38.
Blizz Mfg. Co., Owensville, Mo. Antifreeze liquid and rust preventer. 305,648; Nov. 4. Class 6.
Bond Electric Corporation, Jersey City, N. J. Electric flash lights. 303,800; Nov. 4. Class 21.
Bonner, Robert, Valdese, N. C. Syrups and extracts. 305,208; Nov. 4. Class 45.
Botfield Refractories Company, Philadelphia, Pa. Refractory cement. 305,650; Nov. 4. Class 12.
Bowman, Jacob W., doing business as The By Gum Co., Philadelphia, Pa. Chewing gum. 302,988; Nov. 4. Class 46.
Bridge Specialties Company, The, Cleveland, Ohio. Bridge scorers and tally pads. 305,477; Nov. 4. Class 37.
Broadway Cigarette & Tobacco Co. (See Oflesh, Thomas E.)
Brooks Brothers, New York, N. Y. Collars. 301,805; Nov. 4. Class 39.
Brooks Brothers, New York, N. Y. Collars. 301,811; Nov. 4. Class 39.
By Gum Co., The. (See Bowman, Jacob W.)
California Cotton Mills Co., Oakland, Calif. Cotton piece goods. 304,992; Nov. 4. Class 42.
California Fruit Growers Exchange, Los Angeles, Calif. Maltless beverages and concentrates for making the same. 303,156; Nov. 4. Class 45.
Campiche, Andre, Lausanne, Switzerland. Apparatus for humidifying the gaseous charge in internal-combustion engines. 304,799; Nov. 4. Class 23.
Capital City Products Company, The, Columbus, Ohio. Cottonseed oil. 306,027; Nov. 4. Class 46.
Chicago Vitreous Enamel Product Company, Cicero, Ill. Publications. 305,215; Nov. 4. Class 38.
Chilcote Company, The, Cleveland, Ohio. Mounts of paper and cardboard. 290,741–2; Nov. 4. Class 37.
Chisholm Shoe Company, The, Cleveland, Ohio. Shoes. 303,739; Nov. 4. Class 39.
Clark, Robert E., doing business as R. E. Clark Milling Company, Chillicothe, Ohio. Wheat flour. 303,629; Nov. 4. Class 46.
Cleveland Heater Company, The, Cleveland, Ohio. Water heaters and their structural parts. 300,170–1; Nov. 4. Class 34.
Cleveland Provision Company, The, Cleveland, Ohio. Ham, bacon, sausage, etc. 295,606; Nov. 4. Class 46.
Climax Rubber Company. (See Stein, Jacob.)
Clinadol Co., Inc., New York, N. Y. Cod-liver-oil preparation. 305,561; Nov. 4. Class 6.
Clorox Chemical Co., Oakland, Calif. Bleaching, cleansing, antiseptic, etc., compounds. 305,216; Nov. 4. Class 6.
Coal Carburetor Company. (See Price, Thornton W.)
Coen Companies, Inc., Los Angeles, Calif. Edible oils. 305,778; Nov. 4. Class 46.
Coleman, Albert M., doing business as Coleman Equipment Company, Boston, Mass. Plastic compound. 305,070; Nov. 4. Class 6.
Columbia Radio Corporation, Chicago, Ill. Radio receiving sets, vacuum or electron tubes, and radiospeakers. 305,515; Nov. 4. Class 21.
Conde Nast Publications, Inc., The, New York, N. Y. Magazine section. 305,391; Nov. 4. Class 38.
Consolidated Expanded Metal Companies, The, Wheeling W. Va. Lathers' hairpins. 290,778; Nov. 4. Class 13.
Contest Magazine Publishing Company, The, Seattle, Wash. Periodicals. 303,880; Nov. 4. Class 38.
Corn Products Refining Company, New York, N. Y. Cornstarch. 302,428; Nov. 4. Class 46.
Crosfield, Joseph, & Sons, Limited, Warrington, England. Silica gels. 305,159; Nov. 4. Class 6.
Cushing Coca Cola Bottling Co., Cushing, Okla. Maltless beverages. 306,055; Nov. 4. Class 45.
Daily Graphic, Inc., New York, N. Y. Series of cartoons or comic strips. 305,849; Nov. 4. Class 38.
Daner Co. (See Danerhirsch, Joseph.)
Danerhirsch, Joseph, doing business as Daner Co., New York, N. Y. Shirts. 304,489–95; Nov. 4. Class 39.
Davies-Young Soap Company, The, Dayton, Ohio. Liquid glove-cleaning soap. 305,925; Nov. 4. Class 4.
Decker, Jacob E., & Sons, Mason City, Iowa. Bacon. 305,697; Nov. 4. Class 46.
Decker, Jacob E., & Sons, Mason City, Iowa. Bacon. 305,797; Nov. 4. Class 46.
Deford Company, The, Baltimore, Md. Leather. 306,091; Nov. 4. Class 1.
De Land, Charles M., New York, N. Y. Woolen piece goods. 299,560; Nov. 4. Class 42.
Dent Hardware Company, The, Fullerton, Pa. Golf clubs. 304,910; Nov. 4. Class 22.
Dextora Company, Indianapolis, Ind. Orange malted milk. 304,911; Nov. 4. Class 46.
Diamond Power Specialty Corporation, Detroit, Mich. Gauge glasses, water columns, and water gauges. 304,100–1; Nov. 4. Class 26.
Dimaiuta, Antonino, New York, N. Y. Preparation to relieve the discomforts of hemorrhoids or piles. 305,100; Nov. 4. Class 6.
Drypolcher, William, Bogota, N. J. Lubricating oils and greases. 288,593; Nov. 4. Class 15.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Wood stains, fillers, varnishes, etc. 305,394; Nov. 4. Class 16.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Dyes and dyestuffs. 305,660; Nov. 4. Class 6.
Durex Abrasives Corporation, Jersey City, N. J. Abrasives. 304,652; Nov. 4. Class 4.
Dutcher, Harold W., Asbury Park, N. J. Miniature portable golf courses, golf ball, clubs, and accessories, etc. 305,344; Nov. 4. Class 22.
Eastman Kodak Company, Rochester, N. Y. Light-sensitive photographic paper. 305,345; Nov. 4. Class 26.
Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der pferdepost von Ferd. Mülhens. (See Mülhens, Paul P.)
Eaves, Basil G., doing business as Ford and Frye, New York, N. Y. Letterheads. 303,763; Nov. 4. Class 37.
Eclipse Lawn Mower Co., Prophetstown, Ill. Lawn mowers. 300,620; Nov. 4. Class 23.
Elgin National Watch Company, Chicago and Elgin, Ill. Watches, watch movements, and watchcases. 305,563; Nov. 4. Class 27.
Elion Bros. Furniture Company, doing business as International Phonograph & Record Company, El Paso, Tex. Phonograph records. 294,847; Nov. 4. Class 36.
Ellison Furniture & Carpet Co., Fort Worth, Tex. Cotton mattresses, springs, and pillows. 255,502; Nov. 4. Class 32.
Eltyro Company. (See Pfau, Arthur C.)
Endicott Johnson Corporation, Endicott, N. Y. Golf balls. 303,882; Nov. 4. Class 22.
Enterprise Paper Company, Philadelphia, Pa. Paper. 303,959; Nov. 4. Class 37.
Eskimo Pie Corporation, Louisville, Ky. Solidified carbon dioxide. 303,635; Nov. 4. Class 6.
Essex Rubber Company, Inc., Trenton, N. J. Rubber and composition heels for boots and shoes. 304,683; Nov. 4. Class 39.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Euro American Corporation, Newark, N. J. Perfume. 304,654; Nov. 4. Class 6.
Finn, Charles C., doing business as The Gungoff Co., Seattle, Wash. Game. 305,518; Nov. 4. Class 22.
Fish-Schurman Corporation, New York, N. Y. Plastic waterproof composition and tape and fabric impregnated or coated therewith. 304,500; Nov. 4. Class 12.
Flintkote Company, The, Boston, Mass. Bituminous emulsions. 305,521; Nov. 4. Class 12.
Ford and Frye. (See Eaves, Basil G.)
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 300,498; Nov. 4. Class 42.
Foster Wheeler Corporation, New York, N. Y. Metal tubes and pipes and expansion joints. 300,266; Nov. 4. Class 13.
Fox, G., & Co. Inc., Hartford, Conn. Gloves, ties, scarfs, etc. 301,877; Nov. 4. Class 39.
French, R. T., Company, The, Rochester, N. Y. Blended mixture of sugar, cinnamon, and other spices. 305,353; Nov. 4. Class 46.
Fugazzi-Pinellas Grove Co., Clearwater, Fla., and Cincinnati, Ohio. Fresh citrus fruits. 305,566; Nov. 4. Class 46.
Glen Raven Cotton Mills, Glen Raven, N. C. Cotton piece goods. 305,526; Nov. 4. Class 42.
Glazek, Lorand J. B., New York, N. Y. Medical diagnostical instruments for measuring the sensation of pain. 305,183; Nov. 4. Class 44.
Gondrezick, R. E., Tomah, Wis. Maltless beverages. 306,134; Nov. 4. Class 45.
Goodoil Company, Inc., Philadelphia, Pa. Lubricating oils. 295,027; Nov. 4. Class 15.
Good Story Magazine Company, Inc., New York, N. Y. Magazine. 305,356; Nov. 4. Class 38.
Graham Remedy Company. (See Peoples Drug Stores, Inc.)
Grasselli Chemical Company, The, Cleveland, Ohio. Dry colors for paints. 305,076; Nov. 4. Class 16.
Greenfield Tap and Die Corporation, Greenfield, Mass. Twist drills. 304,866; Nov. 4. Class 23.
Grigsby, Louis S., Philadelphia, Pa. Newspaper, magazine, and bulletin columns. 305,811; Nov. 4. Class 38.
Gungoff Co., The. (See Finn, Charles C.)
"H" Ointment Co. (See Harms, Harm.)
Haas, Hartwell, and J. O. Francis Haas, Chicago, Ill. Telephone-transmitter silencers. 303,285; Nov. 4. Class 21.
Hake, Elmer, Covington, Ky. Golf-green-game apparatus. 304,285; Nov. 4. Class 22.
Hammel, Riglander-Pennant Corporation, New York, N. Y. Jewelers' saws. 300,627; Nov. 4. Class 23.
Hanover Cordage Company, Hanover, Pa. Hemp sash or sewing twine. 298,497; Nov. 4. Class 7.
Hanson, Frank R., Seattle, Wash. Golf tees. 303,474; Nov. 4. Class 22.
Harms, Harm, doing business as "H" Ointment Co., Benld, Ill. Ointment. 305,185; Nov. 4. Class 6.
Harpham, Julius V., Lincoln, Nebr. Dusting mittens. 301,171; Nov. 4. Class 29.
Heath's Bead Shop, Inc., St. Petersburg, Fla. Bead necklaces and strings of beads. 303,641; Nov. 4. Class 28.
Hi-G-Nik Dishwasher Co., Los Angeles, Calif. Dishwashing machines. 298,994; Nov. 4. Class 23.
Hills Brothers Company, The, New York, N. Y. Granulated cocoanut. 305,753; Nov. 4. Class 46.
Hind & Harrison Plush Co., The, New York, N. Y. Pile fabric. 303,083–4; Nov. 4. Class 42.
Hollander, L. P., Company, Inc., Boston, Mass. Coats, suits, dresses, etc. 297,431; Nov. 4. Class 39.
Holliston Mills, Inc., Norwood, Mass. Cotton cloth. 303,378; Nov. 4. Class 42.
Hutchinson, Edson L., San Francisco, Calif. Cakes. 306,005; Nov. 4. Class 46.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Rubber coagulates. 302,536; Nov. 4. Class 1.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Textile fibers and imitation horsehair. 304,958; Nov. 4. Class 1.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Artificial-silk threads and yarns. 304,959; Nov. 4. Class 43.
Indiana Limestone Company, Bedford, Ind., and New York, N. Y. Building stone. 301,448; Nov. 4. Class 1.
Indiana Limestone Company, Bedford, Ind., and New York, N. Y. Building stone. 301,450; Nov. 4. Class 1.
Instant Products Manufacturing Company, The. (See Moshier, E. B.)
International Chemical Company, Chicago, Ill. Preservative and finish. 305,006; Nov. 4. Class 16.
International Merchandising Syndicate, Inc., New York, N. Y. Cotton velour. 305,108; Nov. 4. Class 42.
International Phonograph & Record Company. (See Elion Bros. Furniture Company.)
International Shoe Co., St. Louis, Mo. Boots and shoes. 304,820; Nov. 4. Class 39.
Johnson, Nestor, Manufacturing Company, Chicago, Ill. Ice skates and skate outfits. 304,732; Nov. 4. Class 22.
Julian & Kokenge Company, The, Cincinnati, Ohio. Shoes. 288,709; Nov. 4. Class 39.
Justice, R. H., doing business as Justice Manufacturing Co., Williamsburg, Pa. Salve. 304,689; Nov. 4. Class 6.
Karr, Francis, Holland, Mich. Pillows, cushions, and mattresses. 296,918; Nov. 4. Class 32.
Kay Laboratories, Inc., West Haverstraw, N. Y., assignor to Kay-Fries Chemicals, Inc. Agricultural insecticides. 298,705; Nov. 4. Class 6.
Kay Laboratories, Inc., West Haverstraw, N. Y., assignor to Kay-Fries Chemicals, Inc. Agricultural insecticides. 299,660; Nov. 4. Class 6.
Kayser, Julius, & Co. New York, N. Y. Gloves, hosiery, and underwear. 303,772; Nov. 4. Class 39.
Kenmore Inc. Cincinnati, Ohio. Medicine. 300,420; Nov. 4. Class 6.
Keystone Products Company, Pittsburgh, Pa. Shampoo preparation. 305,227; Nov. 4. Class 6.
King, James F., Hillsgrove, R. I. Metal pipe unions. 306,254; Nov. 4. Class 13.
Kneale, Inc., New York, N. Y. All-wool fabric. 305,109; Nov. 4. Class 42.
Kneiling, Michael, doing business as Kneiling Co., Tacoma, Wash. Welding, brazing, and soldering fluxes. 297,676; Nov. 4. Class 6.
Kuehnle, Inc., Philadelphia, Pa. Cup and high-pressure grease, and chassis lubricant and graphite penetrating oil. 305,485; Nov. 4. Class 15.
Kwitel, Joseph, Brooklyn, N. Y. Cereal beverages. 304,414; Nov. 4. Class 48.
Lamella Roof Syndicate, Inc., New York, N. Y. Structural members for constructing roofs. 305,437; Nov. 4. Class 12.
Lehman, Louis H., doing business as The Lehman Spray-shield Company, Philadelphia, Pa. Glass shower-stall doors and shower-bath shields. 305,865; Nov. 4. Class 13.
Lempco Products, Inc., Bedford, Ohio; New York, N. Y.; Chicago, Ill.; San Francisco, Calif.; Atlanta, Ga.; and Dallas, Tex. Axle shafts and brake drums. 305,866; Nov. 4. Class 19.
Lever Brothers Company, Cambridge, Mass. Preparation of oxygen. 305,363; Nov. 4. Class 6.
Levy & Baumann, New York, N. Y. Interlining for ladies' coats. 301,662; Nov. 4. Class 42.
Lewis, Samuel, doing business as Tempo-Fill Manufacturing Company, Pittsburgh, Pa. Dental filling. 305,438; Nov. 4. Class 44.
Liberty Foundries Company, Rockford, Ill. Space heaters, parts thereof, and deflectors therefor. 304,465; Nov. 4. Class 34.
Locke Hosiery Mills, The, Philadelphia, Pa. Hosiery. 304,150; Nov. 4. Class 39.
Loeffler, Eugene V., Mobile, Ala. Maltless beverages and sirups and extracts for making the same. 306,139; Nov. 4. Class 45.
Loewith Julius, Inc., New York, N. Y. Peat moss. 294,303; Nov. 4. Class 1.
Logan-Long Company, The, Chicago, Ill. Outside coverings for attachment to the outer walls of buildings. 305,137; Nov. 4. Class 12.
Lutton, William H., Company, Jersey City, N. J. Ventilating apparatus and heating systems for greenhouses. 287,145; Nov. 4. Class 34.
M-De-S Laboratories. (See Seibel, D. Stanley.)
Mas Fisheries Limited, London, England. Preserved herrings in sauce. 304,153; Nov. 4. Class 46.
Mackay, Sigler & Taylor, New York, N. Y. Piece goods of woolen fabrics. 299,272; Nov. 4. Class 42.
Magnoni, Angelo, doing business as A Magnoni & Company, Corona, N. Y. Mixture for preventing pitch gum in peach trees. 301,968; Nov. 4. Class 6.
Mainzer, Adolf J., Inc., New York, N. Y. Glacé for all kinds of tarts, pastries, and cakes. 305,817; Nov. 4. Class 46.
Manteca Canning Company, Manteca, Calif. Canned tomatoes, tomato paste, fruit, vegetables. 305,715; Nov. 4. Class 46.
Martin, Charles C., doing business as The Pan-American Information Service, New York, N. Y. News service. 306,240; Nov. 4. Class 38.
Martinelli, S., & Co., Watsonville, Calif. Cider vinegar. 301,669; Nov. 4. Class 46.
Masterphone Sound Corporation, Seattle, Wash. Unitary machine or apparatus for the synchronous production and reproduction of light and sound effects. 287,486; Nov. 4. Class 26.
May Department Stores Company, New York, N. Y. Toilet preparations, toilet articles, and cosmetics. 286,643; Nov. 4. Class 6.
Mayou, J. J., Foundry Supply Co., Chicago, Ill. Foundry supplies. 301,975; Nov. 4. Class 1.
McCaffery, William J., doing business as Pacific Beauty Parlor, Kelso, Wash. Liquid for treating and dressing permanently-waved and naturally-curly hair. 306,100; Nov. 4. Class 6.
McCutcheon, James, & Company, New York, N. Y. Fabrics. 302,785; Nov. 4. Class 32.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Effervescent laxative salts. 306,099; Nov. 4. Class 6.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Merchants Fertilizer & Phosphate Company, Charleston, S. C. Plant food and fertilizer. 305,820; Nov. 4. Class 10.
Midwest Brick Company, Ottawa, Ill. Brick and like wall building blocks. 304,924; Nov. 4. Class 12.
Moncrief, Mrs. Hattie, Atlanta, Ga. Hair restorer. 304,965; Nov. 4. Class 6.
Montgomery Ward & Co., Incorporated, Chicago, Ill. Watches. 300,645; Nov. 4. Class 27.
Moreland, Arthur C., Hope, Ark. Canned chile with beans and tamales. 305,975; Nov. 4. Class 46.
Moshier, E. B., doing business as The Instant Products Manufacturing Company, Omaha, Nebr. Milk-chocolate powder and malted-milk-chocolate powder. 297,026; Nov. 4. Class 46.
Mosinee Paper Mills Company, Mosinee, Wis. Wrapping paper. 290,269; Nov. 4. Class 37.
Mosinee Paper Mills Company, Mosinee, Wis. Paper used for steel backing and thermal insulating purposes. 305,235; Nov. 4. Class 12.
Mt. Signal Produce Co., Calexico, Calif. Fresh melons, honeyballs, vegetables, strawberries. 278,476; Nov. 4. Class 46.
Mouser, W. H., & Company, Orlando, Fla. Fresh citrus fruits. 306,009; Nov. 4. Class 46.
Mülhens, Paul P., doing business as Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne, Germany. Eau de cologne, lavender water, perfumes, etc. 305,117; Nov. 4. Class 6.
Munitex Corporation, The, Paterson, N. J. Yarns, threads, and filaments. 304,780; Nov. 4. Class 48.
National Battery Company, St. Paul, Minn. Electric batteries. 301,963; Nov. 4. Class 21.
National Paper Products Company, San Francisco, Calif. Toilet paper. 302,150; Nov. 4. Class 37.
New England Confectionery Company, Cambridge, Mass. Candy. 305,977; Nov. 4. Class 46.
Nielsen Packing Company, San Francisco, Calif. Vegetable juices. 300,431; Nov. 4. Class 46.
Ocklawaha Nurseries, Inc., Lake Jem, Fla. Citrus trees. 305,786; Nov. 4. Class 1.
Oliesh, Thomas E., doing business as Broadway Cigarette & Tobacco Co., Altoona, Pa. Cigars, cigarettes, and smoking tobacco. 304,826; Nov. 4. Class 17.
Olde Homestead Preserves, Inc., Elmhurst, New York, N. Y. Peanut butter. 304,783; Nov. 4. Class 46.
Olson Rug Company, Chicago, Ill. Textile rugs. 305,013; Nov. 4. Class 42.
Orange Belt Packing Company, Eustis, Fla. Fresh citrus fruits. 303,856; Nov. 4. Class 46.
P. P. de la Société Ame. Rey Aîne, Brussels, Belgium. Linen and cotton piece goods pillowcases, sheets, etc. 289,759; Nov. 4. Class 42.
Pacific Beauty Parlor. (See McCaffery, William J.)
Pan-American Information Service, The. (See Martin, Charles C.)
Peek, Frean & Co., Ltd., London, England. Biscuits and crackers. 304,885; Nov. 4. Class 46.
Peoples Drug Stores, Inc., doing business as Graham Remedy Company, Washington, D. C. Foot powder. 305,680; Nov. 4. Class 6.
Peoples Milling Company, Muskegon, Mich. Cake flour. 299,225; Nov. 4. Class 46.
Percival Specialty Company, Foxboro, Mass. Preparation for cleaning and polishing metal. 304,574; Nov. 4. Class 4.
Perfect Circle Co., The, Hagerstown, Ind. Piston rings. 305,762; Nov. 4. Class 35.
Perma-Green Company, Inc., Kansas City, Mo. Coverings for miniature golf courses. 304,295; Nov. 4. Class 12.
Peterson & Mann Amusement Company, Greeley, Colo. Hazards, flags, markers, etc., for minature golf courses. 305,454; Nov. 4. Class 22.
Pfau, Arthur C., doing business as Eltyro Company, Cincinnati, Ohio. Electric routing tools. 299,081; Nov. 4. Class 21.
Pinolux Company, Camden, N. J. Soluble pine oil. 303,545; Nov. 4. Class 6.
Plantabbs Corporation, Baltimore, Md. Insecticide. 304,014; Nov. 4. Class 6.
Poegel, Emil, Newark, N. J. Plastic coating for buildings. 303,208; Nov. 4. Class 12.
Pope Publishing Corporation, The, New York, N. Y. Reference book. 306,200; Nov. 4. Class 38.
Post & Sheldon Corporation, New York, N. Y. Silk piece goods. 303,121; Nov. 4. Class 42.
Price, Thornton W., doing business as The Coal Carburetor Company, New Brunswick, N. J. Furnace-controlling device. 305,825; Nov. 4. Class 44.
Radium Salve Corporation of America, St. Louis, Mo. Salve. 297,781; Nov. 4. Class 6.
Rasmussen, Geo., Co., Chicago, Ill. Scouring powder. 287,425; Nov. 4. Class 4.
Remo Laboratory, Elizabeth, N. J. Medicinal preparation. 302,444; Nov. 4. Class 6.
Resinous Products & Chemical Company, The, Philadelphia, Pa. Viscous, resinous, or rubberlike condensation product or solution thereof. 304,579; Nov. 4. Class 1.
Rice, Edward, jr., Philadelphia, Pa. Refrigerating apparatus. 305,679; Nov. 4. Class 31.
Rio Grande Valley Vegetable Grower's Exchange, Mercedes, Tex. Fresh vegetables. 263,518; Nov. 4. Class 46.
Rokor Company, Cleveland, Ohio. Dry-cleaning and laundry machines. 305,879; Nov. 4. Class 24.
Root, F. P., Company, The, Cleveland, Ohio. Blankets. 304,928; Nov. 4. Class 42.
Roper, Geo. D., Corporation, Rockford, Ill. Pumps. 304,429; Nov. 4. Class 23.
Rosenthal, Joseph B., Cleveland, Ohio. Foot powder. 299,018; Nov. 4. Class 6.
Röwde & Company, Oslo, Norway. Boots, shoes, and slippers. 295,193; Nov. 4. Class 39.
Ruegg, Carl A., doing business as The Asepar Co., New York, N. Y. Powder to be used as a mouth wash. 305,728; Nov. 4. Class 6.
Ryan, Matthew W., Sons & Co., Inc., New York, N. Y. Fabrics. 304,738; Nov. 4. Class 42.
S. & T. Metal Co., Chicago, Ill. Lead alloys. 305,880; Nov. 4. Class 14.
Safeway Garment Co., Inc., Brooklyn, N. Y. Women's catamenial appliance. 304,109; Nov. 4. Class 44.
Sanitary Cotton Company, Inc., Chicago, Ill. Filter bags. 301,707; Nov. 4. Class 31.
Sarandeses, Jose, New York, N. Y. Men's shirt collars. 305,318; Nov. 4. Class 39.
Schrafft, W. F., & Sons Corporation, Charlestown and Boston, Mass. Chocolate candy. 300,680; Nov. 4. Class 46.
Schreiber, A. H., Company, New York, N. Y. Underwear and outerwear. 302,835; Nov. 4. Class 39.
Scovill Manufacturing Company, Waterbury, Conn. Flash lights and radiocondensers. 305,498; Nov. 4. Class 21.
Sears, Roebuck and Co., Chicago, Ill. Plowshares. 291,028; Nov. 4. Class 28.
Seibel, D. Stanley, doing business as M-de-S Laboratories, Kansas City, Mo. Germicidal soap. 301,366; Nov. 4. Class 4.
Shell Oil Company, San Francisco, Calif. Engine-lubricating oil. 293,195; Nov. 4. Class 15.
Shell Oil Company, San Francisco, Calif. Gasoline. 302,951; Nov. 4. Class 15.
Shell Oil Company, San Francisco, Calif. Gasoline and motor-lubricating oil. 302,052; Nov. 4. Class 15.
Shotwell Mfg. Co., The, doing business as Shotwell's, Chicago, Ill. Marshmallows and candy. 305,125; Nov. 4. Class 46.
Shulman, Nathan, Baltimore, Md. Hats and caps. 305,320; Nov. 4. Class 39.
Silk Stylists Association of America, New York, N. Y. Silks, velvets, and lace. 288,397; Nov. 4. Class 42.
Silvertone Process Corporation, New York, N. Y. Matrix, dry mat, or boards. 305,683; Nov. 4. Class 50.
Simplex Piston Ring Company of America, Inc., The, Cleveland, Ohio. Ring expanders. 285,892; Nov. 4. Class 35.
Simplex Piston Ring Co. of America, The, Cleveland, Ohio. Piston rings. 305,944; Nov. 4. Class 35.
Simplimus, Inc., Boston, Mass. Electrical systems for reproducing, amplifying, and projecting sound from records. 303,791; Nov. 4. Class 21.
Simpson, W. A., Company, The, Baltimore, Md. Fertilizer. 302,555; Nov. 4. Class 10.
Sircum Textile Corporation, New York, N. Y. Underwear. 304,517; Nov. 4. Class 39.
Solidol Chemical Limited, London, England. Disinfectants. 305,500; Nov. 4. Class 6.
Square D Company, Detroit, Mich. Voltage testers. 305,626; Nov. 4. Class 26.
Stadelman, German H., Jamaica, N. Y. Metal polish. 302,650; Nov. 4. Class 4.
Stanco Incorporated, New York, N. Y. Insecticides, deodorants, and disinfectants. 305,684; Nov. 4. Class 6.
Stein, Jacob, doing business as Climax Rubber Company, New York and Brooklyn, N. Y. Baby pants, baby bibs, bathing caps, etc. 303,553; Nov. 4. Class 39.
Stuhmer, Geo. F., & Co., Inc., Brooklyn, N. Y. Pumpernickel. 305,912; Nov. 4. Class 46.
Summit Manufacturing Company, Davenport, Iowa. Electrically-heated water heaters. 304,224; Nov. 4. Class 21.
Taketa, A. M., Sacramento, Calif. Fruits and grapes. 289,652; Nov. 4. Class 46.
Tempo-Fill Manufacturing Company. (See Lewis, Samuel.)
Thermo Instrument Company, Inc., Norfolk, Va. Device for use in recording the events in a game, such as golf. 303,351; Nov. 4. Class 22.
Thompson, William R., San Diego, Calif. Frozen confections. 305,733; Nov. 4. Class 46.
Timme, E. F., & Son, New York, N. Y. Pile fabrics. 302,752; Nov. 4. Class 42.
Timme, E. F., & Son, New York, N. Y. Pile fabrics. 303,979; Nov. 4. Class 42.
Tobacco Rehandling Co., Ltd., The, Louisville, Ky. Leaf tobacco. 305,299; Nov. 4. Class 17.
Troponwerke Dinklage & Co., Cologne-Mulheim, Germany. General tonic and medicated food. 289,606; Nov. 4. Class 6.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Tube-Turns Incorporated, Louisville, Ky. Metal-bent-pipe sections. 297,037; Nov. 4. Class 13.
Union Steel Casting Company, Pittsburgh, Pa. Special-alloy steel castings. 303,584; Nov. 4. Class 14.
United Drug Company, Boston, Mass. Medicinal preparation. 305,379; Nov. 4. Class 6.
U. S. Beverage Company, Inc., New York, N. Y. Crush fruits in syrup. 302,606; Nov. 4. Class 46.
United States Trade Mark Association, The, New York, N. Y. Publication. 306,206; Nov. 4. Class 38.
Upson-Walton Company, The, Cleveland, Ohio. Manilla rope. 304,436; Nov. 4. Class 7.
Valvoline Oil Company, Edgewater, N. J., and New York, N. Y. Lubricating oils. 304,168; Nov. 4. Class 15.
Victor Products Corporation, Winchester, Va. Rubber soles and heels. 304,594; Nov. 4. Class 39.
Victory Auto Trunk Co., Inc., New York, N. Y. Covering for hand luggage, automobile trunks, and floor covering. 304,440–1; Nov. 4. Class 50.
Viville (Paris), Inc., New York, N. Y. Astringent, astringent cerates, bleach creams, etc. 305,639–43; Nov. 4. Class 6.
Viville (Paris), Inc., New York, N. Y. Astringents, astringent cerates, bleach and beauty creams, etc. 305,795; Nov. 4. Class 6.
Vogt, F. G., & Sons, Incorporated, Philadelphia, Pa. Scrapple. 305,988–9; Nov. 4. Class 46.
Vosburgh, Herbert E., New York, N. Y. Base or stand to support a telephone set. 304,527; Nov. 4. Class 50.
Weideman Company, The, Cleveland, Ohio. Tomato juice. 304,842; Nov. 4. Class 46.
Wenatchee Beebe Orchard Co., Minneapolis, Minn. Fresh deciduous fruits. 300,381; Nov. 4. Class 46.
Western Auto Supply Agency, Los Angeles, Calif. Storage batteries and parts therefor. 304,675; Nov. 4. Class 21.
White, Clinton R., Chicago, Ill. Electrically-operated phonograph-disc-record reproducing mechanism. 302,519; Nov. 4. Class 36.
Wolseley Motors (1927) Limited, Birmingham, England. Automobiles and their constructive parts. 303,675; Nov. 4. Class 19.
Wright & McGill Company, Denver, Colo. Fish lures. 304,646; Nov. 4. Class 22.
Zurbach, L. E., Steel Co., Cambridge, Mass. Sheet steel. 305,646; Nov. 4. Class 14.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 2

Ornaments, Garden. S. Cheney & Son. 276,951; Nov. 4; Serial No. 283,327; published Aug. 19, 1930.

CLASS 4

Cleaning preparation, Liquid. Du-All Humus Co. 277,113; Nov. 4; Serial No. 287,123; published Aug. 19, 1930.
Polish, Metal. Industrial Laboratories, Inc. 276,999; Nov. 4; Serial No. 301,035; published Aug. 19, 1930.
Polishing wheels. Advance Polishing Wheels, Inc. 277,070; Nov. 4; Serial No. 296,468; published Aug. 19, 1930.
Soap, shaving cream, shaving powder, and shaving sticks, Toilet. Colgate-Palmolive-Peet Company. 276,981; Nov. 4; Serial No. 302,994; published Aug. 19, 1930.

CLASS 6

Cream, face and dusting powders, etc., Powder. Suzanne's Beauty Preparations, Inc. 276,963–4; Nov. 4; Serial Nos. 285,948–9; published Aug. 12, 1930.
Laxatives. Diamond State Pharmacal Company. 277,106; Nov. 4; Serial No. 298,431; published July 29, 1930.
Medicine. Beach Chemical Company. 276,968; Nov. 4; Serial No. 288,834; published Oct. 8, 1929.
Plasters, Corn and porus. Allcock Manufacturing Co. 276,965; Nov. 4; Serial No. 286,018; published Aug. 5, 1930.
Products for the preparation of white-pine-needle baths. Wolo Ltd. 276,953; Nov. 4; Serial No. 283,833; published Aug. 5, 1930.
Syrup for coughs and colds. Meritol Corporation. 276,971; Nov. 4; Serial No. 290,139; published Aug. 5, 1930.
Tonic, General. Vitol Laboratories. 277,120; Nov. 4; Serial No. 284,708; published July 29, 1930.

CLASS 12

Cement blocks, cement slabs, and cement, Portland. Naamlooze Vennootschap Eerste Nederlandsche Cement Industrie Enci. 277,103; Nov. 4; Serial No. 299,852; published Aug. 12, 1930.
Composition for glazing, caulking, pointing, etc. H. Kubls. 277,117; Nov. 4; Serial No. 294,267; published Aug. 12, 1930.
Fences, Wooden. R. C. Reeves Co. 277,024; Nov. 4; Serial No. 302,610; published Aug. 12, 1930.
Flooring, Hardwood. Herman H. Hettler Lumber Co. 277,047; Nov. 4; Serial No. 301,436; published Aug. 19, 1930.
Lumber. Columbia River Paper Mills. 277,033; Nov. 4; Serial No. 302,132; published Aug. 12, 1930.

CLASS 13

Hydrants, bell traps, air vents, etc., Fire, street-washer. John C. Kupferle Foundry Company. 276,973; Nov. 4; Serial No. 291,227; published Aug. 12, 1930.
Pewter articles. International Silver Company. 276,959; Nov. 4; Serial No. 284,678; published Aug. 19, 1930.
Swivels and brass rings, Brass. H. A. B. Sneve. 276,977; Nov. 4; Serial No. 291,893; published Aug. 19, 1930.

CLASS 14

Copper, iron, and steel, and alloys thereof. P-M-G Metal Trust Limited. 277,066; Nov. 4; Serial No. 297,496; published Aug. 19, 1930.
Steel. Crucible Steel Company of America. 276,996; Nov. 4; Serial No. 301,410; published Aug. 19, 1930.

CLASS 15

Benzine, gasoline, etc. Wright, Stephenson & Co. Limited. 276,943; Nov. 4; Serial No. 292,477; published July 29, 1930.
Candles. Kroger Grocery & Baking Co. 276,967; Nov. 4; Serial No. 288,133; published July 29, 1930.
Gasoline, kerosene, benzine, etc. True's Oil Company. 277,126; Nov. 4; Serial No. 278,858; published Aug. 13, 1929.
Oils and greases, gasoline, etc., Lubricating. Motol, Inc. 276,972; Nov. 4; Serial No. 291,097; published Aug. 12, 1930.
Oils, Motor fuel. Phillips Petroleum Company. 276,954; Nov. 4; Serial No. 283,892; published Aug. 12, 1930.

CLASS 16

Colors and wall coatings in the nature of paint, Limeproof. United States Gypsum Company. 276,997; Nov. 4; Serial No. 301,315; published Aug. 19, 1930.
Colors, Water, oil, poster. Bril-Tone Products, Inc. 276,995; Nov. 4; Serial No. 301,798; published Aug. 19, 1930.
Naphtha for use as a thinner, partial substitute for toluol, etc. American Mineral Spirits Co. 277,081; Nov. 4; Serial No. 292,705; published Aug. 19, 1930.
Paints, paint enamels, lacquers, etc. Impervious Varnish Company. 276,989; Nov. 4; Serial No. 302,634; published Aug. 19, 1930.
Preparation of chemicalized oils, Compounded. Commercial Chemicals Corporation. 276,982; Nov. 4; Serial No. 302,931; published Aug. 19, 1930.

CLASS 17

Cigars, cheroots, and little cigars. Por Larranaga Fabrica de Tabacos. 277,130–1; Nov. 4; Serial Nos. 260,502–3; published Aug. 19, 1930.
Cigars, cigarettes, and smoking tobacco. American Cigar Company. 277,093; Nov. 4; Serial No. 293,358; published Feb. 18, 1930.

CLASS 21

Electric street lighting systems, electric lighting systems for buildings, etc. Radiovisor Parent Limited. 276,940; Nov. 4; Serial No. 272,669; published Aug. 12, 1930.
Electrical relays. Tork Clocks, Inc. 276,974; Nov. 4; Serial No. 291,250; published July 29, 1930.
Lamps, Electric. Hilam, Incorporated. 276,962; Nov. 4; Serial No. 285,458; published Aug. 12, 1930.
Lamps, Portable electric. Everlite Limited. 276,952; Nov. 4; Serial No. 283,555; published Aug. 12, 1930.
Radio receiving sets, Electric. Grigsby-Grunow Company. 276,947; Nov. 4; Serial No. 280,842; published July 9, 1929.
Spark plugs. Liberty Engineering Corp. 276,955; Nov. 4; Serial No. 284,238; published Aug. 12, 1930.

CLASS 23

Apparatus for cleaning, fumigating, and controlling moths, etc. Air-Way Electric Appliance Corporation. 277,112; Nov. 4; Serial No. 288,166; published Aug. 12, 1930.
Cut-off machines and parts thereof. A. P. de Sanno, jr. 277,061; Nov. 4; Serial No. 300,932; published Aug. 19, 1930.

Dippers and parts thereof, Power-operated excavating. American Manganese Steel Company. 277,063; Nov. 4; Serial No. 300,771; published Aug. 19, 1930.
Fertilizer-dispensing apparatus and parts thereof. Vex Sales Corporation. 276,993; Nov. 4; Serial No. 302,293; published Aug. 19, 1930.
Gravel equipment. Pioneer Gravel Equipment Mfg. Co. 277,068; Nov. 4; Serial No. 296,769; published Aug. 19, 1930.
Mufflers and spare parts, Engine. Pierce-Arrow Motor Car Company. 277,071–2; Nov. 4; Serial Nos. 296,024–5; published Apr. 1, 1930.
Painting and industrial surface finishing, equipment and parts thereof, Pneumatic. Spraco, Inc. 277,078–9; Nov. 4; Serial Nos. 293,078–9; published Aug. 19, 1930.
Pocketknives and hunting knives. Cattaraugus Cutlery Company. 277,075; Nov. 4; Serial No. 293,957; published Aug. 12, 1930.
Pumps and unitary water systems. Fort Wayne Engineering & Manufacturing Co. 277,062; Nov. 4; Serial No. 300,791; published Aug. 19, 1930.
Shovels, spades, and scoops. Pitsburgh Shovel Company. 277,088; Nov. 4; Serial No. 290,522; published Aug. 19, 1930.
Surfacing machines, floor-polishing machines, floor-sanding machines, etc., Terrazzo-. Advance Machine Company. 276,988; Nov. 4; Serial No. 302,718; published Aug. 19, 1930.
Tools or utensils, Kitchen and household. Washburn Company. 277,082; Nov. 4; Serial No. 292,562; published Aug. 12, 1930.
Tools or utensils, Kitchen and household. Washburn Company. 277,089; Nov. 4; Serial No. 290,203; published Aug. 12, 1930.

CLASS 26

Apparatus for measuring the alcohol content of fluids, crucibles, etc. Siemens-Planiawerke A. G. fur Kohlefabrikate. 277,114; Nov. 4; Serial No. 286,343; published Aug. 12, 1930.
Cameras and projectors, Motion-picture. Kodel Electric & Manufacturing Company. 277,067; Nov. 4; Serial No. 297,485; published Aug. 19, 1930.
Gauges, thermometers, electrical heat-measuring devices, etc. Moto Meter Gauge & Equipment Corporation. 277,065; Nov. 4; Serial No. 299,079; published Aug. 19, 1930.

CLASS 27

Clocks and watches and their parts and accessories. Kabushiki Kaisha Konishi Kotakudo. 277,085–6; Nov. 4; Serial Nos. 291,007–8; published Aug. 19, 1930.

CLASS 28

Jewelers' findings. W. R. Cobb Company. 276,956; Nov. 4; Serial No. 284,443; published July 29, 1930.
Rings, bracelets, necklaces, etc., Finger. Camel's Bell, Inc. 276,948; Nov. 4; Serial No. 281,192; published Aug. 12, 1930.

CLASS 31

Refrigerators. Iceberg Manufacturing Co. 276,946; Nov. 4; Serial No. 280,064; published Aug. 19, 1930.

CLASS 32

Dining sets, dressers, cabinets, etc. A. C. Dinette Corp. 277,069; Nov. 4; Serial No. 296,732; published Aug. 12, 1930.
Foot rests. Hazleton Manufacturing Company. 277,073; Nov. 4; Serial No. 294,354; published Aug. 19, 1930.
Furniture. Whitewashed Stable Furniture Company. 276,984; Nov. 4; Serial No. 302,845; published Aug. 19, 1930.

CLASS 34

Lamp shades. Rembrandt Lamp Corporation. 276,950; Nov. 4; Serial No. 282,132; published Aug. 12, 1930.

CLASS 35

Belting, diaphragms, discs, etc., Machinery. Graton & Knight Company. 276,980; Nov. 4; Serial No. 303,050; published Aug. 19, 1930.
Brake linings. Knerr & Bortz. 276,987; Nov. 4; Serial No. 302,778; published Aug. 19, 1930.
Tires and tubes. Firestone Tire & Rubber Company. 277,077; Nov. 4; Serial No. 293,267; published Aug. 12, 1930.

CLASS 37

Paper. American Bank Stationery Company. 277,090; Nov. 4; Serial No. 289,141; published Aug. 12, 1930.
Paper, Moistureproof. T. F. Pinder. 276,969; Nov. 4; Serial No. 289,247; published Aug. 19, 1930.
Pens and artists' colored pen sets. E. Von Hentschel. 276,957; Nov. 4; Serial No. 284,553; published Aug. 19, 1930.

CLASS 38

Comic strips. H. J. Tuthill. 277,005; Nov. 4; Serial No. 302,095; published Aug. 19, 1930.
Directory. Sporting Goods Publishing Company. 277,000; Nov. 4; Serial No. 302,603; published Aug. 19, 1930.
Newspaper, Heading for its. News Leader Company. 277,001; Nov. 4; Serial No. 302,135; published Aug. 19, 1930.
Periodical. W. M. Clayton. 277,013–14; Nov. 4; Serial Nos. 301,580–1; published Aug. 19, 1930.
Periodical. Institution Publishing Company. 277,009; Nov. 4; Serial No. 301,927; published Aug. 19, 1930.
Periodical. Management Magazines, Inc. 277,019; Nov. 4; Serial No. 302,609; published Aug. 19, 1930.
Periodical. F. P. Pitzer. 277,006; Nov. 4; Serial No. 302,010; published Aug. 19, 1930.
Publication. Farmer's Market Bulletin Company. 277,060; Nov. 4; Serial No. 300,937; published Aug. 19, 1930.
Publication. International Association of Municipal Electricians. 277,074; Nov. 4; Serial No. 294,306; published Aug. 19, 1930.
Publication, Periodical. Protective Life Insurance Co. 277,125; Nov. 4; Serial No. 280,571; published Aug. 12, 1930.
Publications, Periodical. Knights of Washington. 277,076; Nov. 4; Serial No. 293,668; published Aug. 19, 1930.
Publications, Periodical. Women's Chicago Beautiful Association. 277,015; Nov. 4; Serial No. 301,544; published Aug. 19, 1930.

CLASS 39

Apparel, Athletic or sports wearing. Playmor Golf, Inc. 277,121; Nov. 4; Serial No. 284,077; published July 29, 1930.
Apparel, Wearing. Cambray Clothes Inc. 277,094; Nov. 4; Serial No. 300,855; published Aug. 19, 1930.
Bandeaux. E. S. Caldor. 277,050; Nov. 4; Serial No. 301,332; published Aug. 12, 1930.
Belts, hosiery, garters, drawers, etc., Suspending. Levy, Forman & Co. 276,942; Nov. 4; Serial No. 298,577; published July 29, 1930.
Berets, Knitted. Simon Ascher & Co. 276,994; Nov. 4; Serial No. 302,208; published Aug. 12, 1930.
Boots and shoes. Ideal Shoe Manufacturing Co. 277,053; Nov. 4; Serial No. 300,946; published July 29, 1930.
Boots and shoes. S. Shapiro. 277,092; Nov. 4; Serial No. 293,935; published Aug. 5, 1930.
Boots and shoes and sandals. Shaft-Pierce Shoe Company. 277,054; Nov. 4; Serial No. 300,817; published Aug. 19, 1930.
Boots, shoes, and slippers. Chesapeake Shoe Manufacturing Company. 277,142; Nov. 4; Serial No. 297,727; published Aug. 12, 1930.
Boots, shoes, and slippers. J. M. Connell Shoe Co. 277,080; Nov. 4; Serial No. 292,980; published Aug. 5, 1930.
Boots, shoes, or slippers. Endicott Johnson Corporation. 277,042; Nov. 4; Serial No. 301,605; published Aug. 12, 1930.
Boots, shoes, sandals, and slippers. Woodbury Shoe Mfg. Co. 277,004; Nov. 4; Serial No. 302,114; published July 29, 1930.
Brassières and corsets. A. Zwiebelson. 277,002; Nov. 4; Serial No. 302,127; published Aug. 19, 1930.
Brassières and corsets. A. Zwiebelson. 277,003; Nov. 4; Serial No. 302,122; published Aug. 19, 1930.
Brassières, girdles, and combination brassières and corsets. Fairy Brassiere Co. 277,010; Nov. 4; Serial No. 301,870; published July 29, 1930.
Brassières, girdles, and garter belts. Maiden Form Brassier Co. Inc. 277,017; Nov. 4; Serial No. 301,044; published Aug. 5, 1930.
Brassières, girdles, chemises, etc. Le Roy Brassiere Co. 277,056; Nov. 4; Serial No. 299,917; published Aug. 12, 1930.
Caps. D. J. Cremen. 277,018; Nov. 4; Serial No. 301,015; published Aug. 12, 1930.
Cloaks, jackets, blouses, etc. Société Worth. 276,978; Nov. 4; Serial No. 212,406; published July 22, 1930.
Clothing. Big Store Company. 277,138; Nov. 4; Serial No. 296,475; published Aug. 19, 1930.
Clothing, Men's work. Humble Oil Refining Company. 277,140; Nov. 4; Serial No. 296,810; published Aug. 5, 1930.
Clothing, Work. Humble Oil & Refining Company. 277,134; Nov. 4; Serial No. 296,810; published Aug. 5, 1930.
Coats. Isidor Silverstein, Inc. 277,048; Nov. 4; Serial No. 301,367; published Aug. 12, 1930.
Coats and flying suits. Gimbel Brothers, Inc. 276,961; Nov. 4; Serial No. 285,080; published Aug. 5, 1930.
Coats, suits, dresses, etc. Angerman Co. 276,976; Nov. 4; Serial No. 291,547; published July 29, 1930.
Coats, suits, knickers, etc. Jaffee-Cohen & Lang, Inc. 277,141; Nov. 4; Serial No. 297,972; published Aug. 12, 1930.
Coats, wraps, throws, etc., Fur. Polar Fur Company. 276,990; Nov. 4; Serial No. 302,549; published Aug. 19, 1930.
Corsets, brassières, and combined corsets and brassières. Associated Apparel Industries, Inc. 277,045; Nov. 4; Serial No. 301,551; published July 29, 1930.
Corsets, brassières, girdles, and garter belts. L. Brill. 276,986; Nov. 4; Serial No. 302,808; published Aug. 12, 1930.
Corsets, girdles, brassières, etc. Paramount Corset Co. 277,083; Nov. 4; Serial No. 292,367; published Aug. 19, 1930.

Cravats. New York Hat Stores. 277,108; Nov. 4; Serial No. 298,200; published Aug. 19, 1930.
Dresses and aprons. Sherman Manufacturing Co. 277,091; Nov. 4; Serial No. 288,570; published Aug. 19, 1930.
Footwear. Merrimack Shoe Mfg. Co. 277,049; Nov. 4; Serial No. 301,353; published July 29, 1930.
Frocks. Jeri-May Mfg. Co., Not Inc. 277,109; Nov. 4; Serial No. 290,423; published Aug. 19, 1930.
Frocks. Osam Manufacturing Company. 277,051; Nov. 4; Serial No. 301,288; published Aug. 5, 1930.
Girdles, corsets, and corset belts. Associated Apparel Industries, Inc. 277,145; Nov. 4; Serial No. 298,736; published July 29, 1930.
Gloves. Boss Manufacturing Company. 276,991; Nov. 4; Serial No. 302,527; published Aug. 12, 1930.
Gloves. Spartan Glove Company. 277,143; Nov. 4; Serial No. 298,210; published Aug. 19, 1930.
Gloves, Work. Keller Glove Manufacturing Co. Inc. 277,055; Nov. 4; Serial No. 300,632; published Aug. 5, 1930.
Hats. International Millinery Co. Inc. 277,008; Nov. 4; Serial No. 301,929; published July 29, 1930.
Hats. International Millinery Co. Inc. 277,038; Nov. 4; Serial No. 301,652; published July 29, 1930.
Hats. International Millinery Co. Inc. 277,039–40; Nov. 4; Serial Nos. 301,648–9; published July 29, 1930.
Hats. International Millinery Co. Inc. 277,041; Nov. 4; Serial No. 301,647; published Aug. 19, 1930.
Hats. Klein & Company. 277,059; Nov. 4; Serial No. 299,268; published July 29, 1930.
Hats. Ross-Cordes, Ltd. 276,985; Nov. 4; Serial No. 302,833; published Aug. 12, 1930.
Hats, Ladies' and misses'. C. Litt. 277,011; Nov. 4; Serial No. 301,663; published July 29, 1930.
Hats, Men's. American Hat Co. Inc. 277,135; Nov. 4; Serial No. 297,647; published July 29, 1930.
Hats, Men's. R. Cinelli Hat Co. 277,044; Nov. 4; Serial No. 301,579; published July 29, 1930.
Heels and counters of shoes, Protector for. Pollard Slipshell Company. 276,992; Nov. 4; Serial No. 302,472; published Aug. 19, 1930.
Hosiery. Harron Hosiery Company. 277,029; Nov. 4; Serial No. 302,348; published Aug. 12, 1930.
Hosiery. Infants Socks, Inc. 277,021; Nov. 4; Serial No. 302,686; published Aug. 12, 1930.
Hosiery. J. S. Reeves & Co., Inc. 277,030; Nov. 4; Serial No. 302,333; published Aug. 12, 1930.
Knickers and long trousers. Sharp Brothers. 277,087; Nov. 4; Serial No. 290,671; published July 29, 1930.
Overcoats, negligee shirts. Samuel Stores, Inc. 277,133; Nov. 4; Serial No. 212,352; published Aug. 12, 1930.
Pajamas. Valco Manufacturing Co. Inc. 276,945; Nov. 4; Serial No. 279,366; published May 14, 1929.
Pants, Sport. S. Rosebloom. 277,025; Nov. 4; Serial No. 302,480; published Aug. 19, 1930.
Raincoats. United States Rubber Company. 277,016; Nov. 4; Serial No. 301,136; published Aug. 12, 1930.
Shirts and athletic goods. Nirenberg & Salzman, Inc. 276,975; Nov. 4; Serial No. 291,401; published Aug. 5, 1930.
Shirts, caps, neckties, etc. American Products Co. 277,057; Nov. 4; Serial No. 299,668; published July 29, 1930.
Shirts, pajamas, neckties, etc. Republic Shirt Shops, Inc. 277,105; Nov. 4; Serial No. 298,847; published Aug. 12, 1930.
Shoes. Johnson-Stephens & Shinkle Shoe Company. 277,012; Nov. 4; Serial No. 301,657; published Aug. 19, 1930.
Shoes. Johnson-Stephens & Shinkle Shoe Company. 277,137; Nov. 4; Serial No. 294,974; published Aug. 12, 1930.
Shoes. Melville Shoe Corporation. 277,115; Nov. 4; Serial No. 285,980; published Aug. 5, 1930.
Shoes. Sears, Roebuck & Co. 277,139; Nov. 4; Serial No. 296,778; published July 8, 1930.
Shoes. G. F. Walsh. 277,118; Nov. 4; Serial No. 293,992; published Aug. 12, 1930.
Shoes and hosiery. I. Miller & Sons, Incorporated. 277,007; Nov. 4; Serial No. 301,985; published Aug. 19, 1930.
Shoes, oxfords, and boots. Teeple Shoe Company. 277,122; Nov. 4; Serial No. 283,595; published Aug. 19, 1930.
Shoes, oxfords, and boots. Teeple Shoe Company. 277,144; Nov. 4; Serial No. 298,518; published Aug. 19, 1930.
Stockings, gloves, slips, etc. M. Lindemann. 277,129; Nov. 4; Serial No. 272,820; published Aug. 5, 1930.
Suits and rompers. Gordon-East Coast Company. 277,027–8; Nov. 4; Serial Nos. 302,383–4; published Aug. 12, 1930.
Suits and underwear, Bathing and swimming. West Coast Knitting Mills. 277,046; Nov. 4; Serial No. 301,540; published Aug. 19, 1930.
Suits, coats, vests, and trousers. L. H. Manko. 276,960; Nov. 4; Serial No. 285,032; published July 29, 1930.
Sweaters. S. Augstein & Co. 277,098; Nov. 4; Serial No. 300,396; published Aug. 12, 1930.
Sweaters. S. Augstein & Co. 277,099; Nov. 4; Serial No. 300,394; published Aug. 12, 1930.
Sweaters, beach coats, and bathing suits. Lee Knitting Mills, Inc. 277,020; Nov. 4; Serial No. 302,951; published Aug. 12, 1930.
Sweaters, knitted jackets, slipovers, etc. Peckham-Foreman, Inc. 277,102; Nov. 4; Serial No. 299,857; published Aug. 19, 1930.
Trousers. Bedford Johnson Company. 276,958; Nov. 4; Serial No. 284,663; published July 22, 1930.
Trousers, breeches, and outer wear known as shorts. Truline, Incorporated. 277,128; Nov. 4; Serial No. 276,670; published Aug. 19, 1930.
Underwear. Oppenheimer-Straus Company. 277,095; Nov. 4; Serial No. 300,742; published Aug. 5, 1930.
Underwear, jumpers, cardigans, etc., Knitted. Brooklands Knitting Industry Limited. 277,110; Nov. 4; Serial No. 293,869; published Aug. 5, 1930.
Underwear, Rayon and knit. Campe Corporation. 277,104; Nov. 4; Serial No. 299,681; published Aug. 19, 1930.
Vests, bloomers, panties, etc. M. S. Siegel & Company. 277,100; Nov. 4; Serial No. 300,149; published Aug. 12, 1930.

CLASS 40

Buttons. Colt's Patent Fire Arms Manufacturing Co. 277,034–5; Nov. 4; Serial Nos. 301,850–1; published Aug. 12, 1930.
Dress shields. A. Stein & Company. 277,032; Nov. 4; Serial No. 302,155; published Aug. 19, 1930.
Hair wavers. Lapin Specialty Mfg. Co. 277,131; Nov. 4; Serial No. 294,674; published Aug. 19, 1930.
Needles. A Spector. 277,058; Nov. 4; Serial No. 299,413; published Aug. 12, 1930.
Tape, Bias. Samstag & Hilder Bros., Inc. 277,023; Nov. 4; Serial No. 302,645; published Aug. 12, 1930.

CLASS 44

Dental gold, dental gold solder, etc. J. F. Jelenko & Co. 277,064; Nov. 4; Serial No. 299,323; published Aug. 19, 1930.
Hair-waving machines, Permanent-. Harry's Beauty Parlor, Inc. 276,998; Nov. 4; Serial No. 301,173; published Aug. 19, 1930.
Prophylactic articles. Cutino Company. 277,123; Nov. 4; Serial No. 283,495; published Aug. 19, 1930.
Prophylactic articles. L. Hilsenbeck, Incorporated. 277,116; Nov. 4; Serial No. 285,972; published Aug. 27, 1929.

CLASS 45

Beverage, Maltless. Arrowhead Springs Beverage Co. 276,966; Nov. 4; Serial No. 286,409; published Aug. 13, 1929.
Mineral water, ginger champagne, and ginger ale, Natural. Manitou Mineral Water Company. 277,127; Nov. 4; Serial No. 277,208; published Feb. 18, 1930.

CLASS 46

Candies, candied fruits, candied nuts, etc. Peggy Anne Candy Stores. 276,949; Nov. 4; Serial No. 281,371; published Aug. 12, 1930.
Candy bar. Shotwell Mfg. Co. 276,970; Nov. 4; Serial No. 289,479; published Aug. 12, 1930.
Canned food products. Fremont Canning Company. 277,101; Nov. 4; Serial No. 300,113; published Aug. 19, 1930.
Canned malt syrup. G. Tiefenthaler. 277,036; Nov. 4; Serial No. 301,728; published Aug. 19, 1930.
Canned vegetables. Krier Preserving Co. 277,096–7; Nov. 4; Serial Nos. 300,634–5; published Aug. 19, 1930.
Canned vegetables, tomato purée, sauerkraut, etc. Stokely Brothers & Company. 277,037; Nov. 4; Serial No. 301,724; published Aug. 19, 1930.
Cottonseed meal. Buckeye Cotton Oil Company. 276,944; Nov. 4; Serial No. 292,653; published Aug. 12, 1930.
Dairy products. Greenwood Creamery Company. 277,110; Nov. 4; Serial No. 295,843; published Apr. 15, 1930.
Extracts, Food-flavoring. J. W. Spencer. 277,031; Nov. 4; Serial No. 302,259; published Aug. 19, 1930.
Foodstuffs and nutritive substances, Dietetic. Nago Nährmittelwerke A. G. 277,107; Nov. 4; Serial No. 298,350; published Aug. 19, 1930.
Honeydew melons, carrots, cabbage, etc., Fresh. J. Di Santo. 277,026; Nov. 4; Serial No. 302,469; published Aug. 19, 1930.
Ice cream. Castles Ice Cream Company. 277,111; Nov. 4; Serial No. 294,573; published Aug. 19, 1930.
Milk. Merrell-Soule Company. 277,132; Nov. 4; Serial No. 258,133; published Aug. 19, 1930.
Olive oil. J. De Lorenzo. 277,043; Nov. 4; Serial No. 301,595; published Aug. 19, 1930.
Olive oil. United Italian Co-operatives, Inc. 277,022; Nov. 4; Serial No. 302,660; published Aug. 19, 1930.
Paprika and other spices and prepared mustard. R. T. French Company. 277,052; Nov. 4; Serial No. 301,102; published Aug. 19, 1930.
Pies, rolls, buns, etc. General Baking Company. 277,084; Nov. 4; Serial No. 291,613; published July 1, 1930.

Pudding. I. Rokeach & Sons, Inc. 276,941; Nov. 4; Serial No. 276,335; published Aug. 12, 1930.

CLASS 49

Cordial, Alcoholic. D. Campari. 276,979; Nov. 4; Serial No. 229,661; published Aug. 19, 1930.

CLASS 50

Flycatchers of paper. T. Kaiser. 277,124; Nov. 4; Serial No. 282,604; published Aug. 19, 1930.
Fur felt banding. S. L. Stern & Co. 276,983; Nov. 4; Serial No. 302,915; published Aug. 19, 1930.

ALPHABETICAL LIST OF LABELS

Annette's Perfect Cleanser. For Powder Cleanser. Annette's Perfect Cleanser Company. 38,181; Nov. 4.
Arenas. For Fresh Fruits and Fresh Vegetables. A. Arena & Co. 38,183; Nov. 4.
Big Hit. For Coffee. Euclid Coffee Company. 38,187; Nov. 4.
Big 3. For Spaghetti. Chicago Macaroni Co. 38,185; Nov. 4.
Cera-Lac Wonder Flour. For Flour. Cera-Lac Company. 38,184; Nov. 4.
Champion. For Malt Syrup. Philadelphia Malt Extract Co. 38,211; Nov. 4.
Formost Four Hour Enamel. For Paint. L. Leavitt. 38,207; Nov. 4.
Gosman's. For Ginger-Flavored, Medicinal Product. Gosman Company. 38,191; Nov. 4.
Grandma's Honey Crisp Potato Chips. For Potato Chips. Lantz Bros. Baking Co. 38,206; Nov. 4.
Grand Slam. For Candy. Robt. F. Mackenzie Co. 38,208; Nov. 4.
Mme. Galli Famous Spaghetti Sauce. For Spaghetti Sauce. Mme. Galli, Inc. 38,188; Nov. 4.
Mother's Big Boy. For Bread. Menasha Products Company. 38,209; Nov. 4.
Nox-Fly. For Chemical Compound Used as a Spray Against Flies and Other Insects. Continental Oil Company. 38,186; Nov. 4.
No. CB–330. For Wrapped Doughnuts. Lambooy Label and Wrapper Co. 38,204; Nov. 4.
No. CB—331. For Wrapped Cakes. Lambooy Label and Wrapper Co. 38,192; Nov. 4.
No. CB–332. For Wrapped Cakes. Lambooy Label and Wrapper Co. 38,193; Nov. 4.
No. CB–333. For Wrapped Rolls. Lambooy Label and Wrapper Co. 38,194; Nov. 4.
No. CB–334. For Wrapped Cakes. Lambooy Label and Wrapper Co. 38,195; Nov. 4.
No. CB–335. For Wrapped Cakes. Lambooy Label and Wrapper Co. 38,196; Nov. 4.
No. CB–336. For Wrapped Cakes. Lambooy Label and Wrapper Co. 38,197; Nov. 4.
No. CB–337. For Wrapped Jelly Rolls. Lambooy Label and Wrapper Co. 38,198; Nov. 4.
No. CB–338. For Wrapped Cakes. Lambooy Label and Wrapper Co. 38,199; Nov. 4.
No. CB–339. For Wrapped Cakes. Lambooy Label and Wrapper Co. 38,200; Nov. 4.
No. CB–340. For Wrapped Cakes. Lambooy Label and Wrapper Co. 38,201; Nov. 4.
No. CB–341. For Wrapped Cakes. Lambooy Label and Wrapper Co. 38,202; Nov. 4.
No. CB–342. For Wrapped Cakes. Lambooy Label and Wrapper Co. 38,203; Nov. 4.
No. CB–343. For Wrapped Tea Biscuits. Lambooy Label and Wrapper Co. 38,205; Nov. 4.
Peche Hand Cream. For a Cream for the Hands. Ogilvie Sisters. 38,210; Nov. 4.
Picnic Bread. For Bread. Shawmut Mills. 38,218; Nov. 4.
Rath's Black Hawk Ham. For Cooked and Tinned Ham. Rath Packing Company. 38,213; Nov. 4.
Rawleigh's Ideal Fly Repellent. For Liquid Fly Repellent. W. T. Rawleigh Company. 38,214; Nov. 4.
Rogers Products Banishes Many Pains and Ills. For Medicinal Products. A. D. Rogers. 38,215; Nov. 4.
Russo Italian Macaroni. For Macaroni. A. Russo & Co. 38,217; Nov. 4.
Ski-Scraper Blocks. For Children's Toy Building Blocks. A. I. Root Company. 38,216; Nov. 4.
Sliced Bond Bread. For Bread. General Baking Company. 38,189; Nov. 4.
Twin Seven. For Melons and Vegetables. Y. Aoyama. 38,182; Nov. 4.
Viking. For Rye. Globe Milling Company. 38,190; Nov. 4.
Yesterlaid Better Eggs. For Eggs. W. E. Puffer. 38,212; Nov. 4.

ALPHABETICAL LIST OF PRINTS

And They Keep On Coming—. For Gasoline. Shell Eastern Petroleum Products, Inc. 12,793; Nov. 4.
As Portia Said to Shylock. For Cigarettes. R. J. Reynolds Tobacco Company. 12,784; Nov. 4.
Brim-Full of the Goodness That Sunshine Gives. For Cigarettes. R. J. Reynolds Tobacco Company. 12,787; Nov. 4.
Camel—A Promise of Pleasure. For Cigarettes. R. J. Reynolds Tobacco Company. 12,780; Nov. 4.
Camel—Made to Smoke. For Cigarettes. R. J. Reynolds Tobacco Company. 12,783; Nov. 4.
Camels Are Made to Smoke. For Cigarettes. R. J. Reynolds Tobacco Company. 12,779; Nov. 4.
Don't Deny Yourself This Luxury. For Cigarettes. R. J. Reynolds Tobacco Company. 12,872; Nov. 4.
Elizabeth Arden Will do These Lovely Things for Your Skin. For Cleansing Cream, Skin Tonic, Velva Cream, Orange Skin Food, Pore Cream, Antiwrinkle Cream, and Muscle Oil. Elizabeth Arden, Inc. 12,772; Nov. 4.
Headlight Zip-It. For Overalls. Larned, Carter & Co. 12,776; Nov. 4.
Juliet Supplied the Balcony, Romeo the Camels. For Cigarettes. R. J. Reynolds Tobacco Company. 12,785; Nov. 4.
Labor Day Week-End . . . Oh Boy! For Shell Gasoline. Shell Eastern Petroleum Products, Inc. 12,790; Nov. 4.
Lucky Breaks—Short Title Breaks. For Cigarettes. H. B. Jayne. 12,775; Nov. 4.
She Has So Many Things That City Children Miss. For Wheat Breakfast Food. Cream of Wheat Corporation. 12,773; Nov. 4.
The Basis of Leadership. For Cigarettes. R. J. Reynolds Tobacco Company. 12,789; Nov. 4.
The Chickenette. For Foods Specially Prepared from Chicken Meat. C. Dixie. 12,774; Nov. 4.
The Honest Reason. For Cigarettes. R. J. Reynolds Tobacco Company. 12,788; Nov. 4.
The Smoke's the Thing. For Cigarettes. R. J. Reynolds Tobacco Company. 12,781; Nov. 4.
The Watch You Can Forget to Wind. For Self-Winding Watches. Perpetual Self Winding Watch Company of America, Inc. 12,778; Nov. 4.
Uncle Limber's Golden Rule Bread. For Bread. L. L. Limber. 12,777; Nov. 4.
Who Says So? For Gasoline. Shell Eastern Petroleum Products, Inc. 12,792; Nov. 4.
Why Eat Dust? For Gasoline. Shell Eastern Petroleum Products, Inc. 12,791; Nov. 4.
Without Benefit of Bologna. For Cigarettes. R. J. Reynolds Tobacco Company. 12,786; Nov. 4.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 4TH DAY OF NOVEMBER, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abel, Frank J., New York, N. Y., assignor to Sun Rise Lamp Mfg. Co. Inc. Handle for smokers' stands or article of analogous nature. Des. 82,409; Nov. 4.
Adam, Joseph F., assignor of one-half to J. Tessier, Toronto, Ontario, Canada. Valve-operating mechanism. 1,780,856; Nov. 4.
Adams, Kempton, Redding Ridge, Conn. Mixer. 1,780,733.; Nov. 4.
Aglow, Harry, Philadelphia, Pa., assignor to Gill Glass and Fixture Company. Lighting fixture. 1,780,161; Nov. 4.
Ahlm, Charles E. F., assignor to Continuous Torque Transmission Company, Cleveland, Ohio. Electromagnetic transmission mechanism. 1,780,150; Nov 4.
Air Line Transportation Company. (See Davis, John H., assignor.)
Aktiebolaget Lindholmen-Motala. (See Johansson, Karl O. R., assignor.)
Aktiebolaget Svenska Kullagerfabriken. (See Törnebohn, Hilding V., assignor.)
Aktiengesellschaft für mechanische Knüpfteppische System Boyer. (See Blum, Albert, assignor.)
Alemite Corporation. (See Dosch, Peter, assignor.)
Alger, Harley C., assignor to R. R. Donnelley & Sons Company, Chicago, Ill. Ink fountain for printing presses. 1,780,694; Nov. 4.
Alger, Harley C., assignor to R. R. Donnelley & Sons Company, Chicago, Ill. Ink fountain for printing presses. 1,780,695; Nov. 4.
Alland, Maurice, Atlantic City, N. J. Top. 1,780,547; Nov. 4.
Allen, Lavont C. (See Jennings, C. S., and Allen.)
Alliance Machine Company, The. (See Keller, W. D., and Poto, assignors.)
Alvin Corporation, The. (See Staf, Axel H., assignor.)
American Bicheroux Company, The. (See Heuze, Charles, assignor.)
American Brass Company. (See Oxer, George C., assignor.)
American Cyanamid Company. (See Bradley, Theodore F., assignor.)
American Electrical Heater Company. (See Kuhn, Frank, assignor.)
American Iron & Machine Works, Inc. (See Lincoln, Robert A., assignor.)
American Laundry Machinery Company, The. (See Staley, Alonzo D., assignor.)
American Radiator Company. (See Dillman, Earnest J., assignor.)
American Steel and Wire Company, of New Jersey, The. (See Coons, P. T., and Rose, assignors.)
American Telephone and Telegraph Company. (See Green, Estill I., assignor.)
American Telephone and Telegraph Company. (See Reynolds, Frederick W., assignor.)
American Telephone and Telegraph Company. (See Ritter, Paul E., assignor.)
American Telephone and Telegraph Company. (See Roberts, Leland C., assignor.)
American Thread Company, The. (See Clark, Robert K., assignor.)
Ames, Caroline F., administratrix. (See Ames, Elmer U.)
Ames, Elmer U., deceased, Collingswood, by C. F. Ames, administratrix, Haddonfield, N. J. Knitting machine. 1,780,328; Nov. 4.
Amsler, Alfred J., Schaffhausen, Switzerland. Testing machine. 1,780,696; Nov. 4.
Anderson, Arvid E., Scotia, N. Y., assignor to General Electric Company. Control system. 1,780,664; Nov. 4.
Anderson, Carl E., East Orange, assignor to Eastern Tool & Mfg. Co., Bloomfield, N. J. Stand. 1,780,163; Nov. 4.
Anderson, Carl J., Chicago, Ill. Motor-controlling device. 1,780,612; Nov. 4.
Anderson, Clifford E., Brainerd, Minn. Can-top lock. 1,780,575; Nov. 4.
Anderson, Irvin W. (See Kettmann, A. P., and Anderson.)
Anderson, James A., et al. (See Dickson, George A., assignor.)
Anderson, Perry, Milwaukee, Wis. Toy parachute. 1,780,734; Nov. 4.
Anderson, Raymond T., assignor to The V. D. Anderson Company, Cleveland, Ohio. Feeding mechanism for presses. 1,780,218; Nov. 4.
Anderson, V. D., Company, The. (See Anderson, Raymond T., assignor.)
Andres, Lloyd J., assignor of one-half to E. E. Rullman, Chicago, Ill. Continuous sound-reproducing apparatus. 1,780,414; Nov. 4.
Andrews, J. Lewis, Elmwood Park, assignor to Stewart-Warner Corporation, Chicago, Ill. Vacuum fuel-feed device. 1,780,290; Nov. 4.
Appel, Saul C., Medford, Mass. Universal radiator bracket. 1,780,162; Nov. 4.
Apple, Vincent G., Dayton, Ohio. Friction device. 1,780,455; Nov. 4.
Apple, Vincent G., Dayton, Ohio. Winding dynamo-electric-machine elements. 1,780,456; Nov. 4.
Archer, Merton T., Pittsburgh, Pa., assignor to The National Supply Company, Toledo, Ohio. Intermittent gas-lift pump. 1,780,808; Nov. 4.
Armour Fertilizer Works. (See King, William B., assignor.)
Arps, Bruno, New Holstein, Wis. Traction lug. 1,780,518; Nov. 4.
Art Metal Construction Company. (See Larson, O. J., and Jones, assignors.)
Asbestos Panels Corporation. (See Lanhoffer, Edmond O., assignor.)
Ashe, William O., St. Louis, Mo., assignor, by mesne assignments, to General Steel Castings Corporation, Granite City, Ill. Locomotive structure. 1,780,457; Nov. 4.
Ashworth Advertising Company. (See Ashworth, John W., assignor.)
Ashworth, John W., assignor to Ashworth Advertising Company, Incorporated, New York, N. Y. Safety-razor-blade holder. 1,780,549; Nov. 4.
Astrup, Andrew, and W. Astrup, Racine, Wis. Headlight. 1,780,548; Nov. 4.
Astrup, William. (See Astrup, Andrew and W.)
Attinger, Stephen J., Sharpsburg, Pa. Picture frame. Des. 82,410; Nov. 4.
Attwood, Charles E., assignor to Postindex Company, Inc., Jamestown, N. Y. Paper file. 1,780,735; Nov. 4.
Autodrink Corporation, The. (See Smith, Harry C., assignor.)
Axe, Roy T., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Ventilator construction for window frames. 1,780,665; Nov. 4.
Babcock & Wilcox Company, The. (See Jacobus, D. S., and Jones, assignors.)
Babcock & Wilcox Company, The. (See Jones, William A., assignor.)
Babcock & Wilcox Company, The. (See Kerr, Howard J., assignor.)
Badger, E. B., & Sons Company. (See Peters, William A., jr., assignor.)
Bagasse Development Inc. (See Horn, Harry L., assignor.)
Bailey, Percy S., Marblehead, Mass., assignor to General Electric Company. Flood-lighting device. 1,780,666; Nov. 4.
Baker, John C., Lake Bluff, assignor to Fansteel Products Company, Inc., North Chicago, Ill. Breaker mechanism. 1,780,415; Nov. 4.
Baltimore Gas Engineering Corporation. (See Friend, Wayne Z., assignor.)
Bany, Herman, Yeadon, Pa., and G. R. McDonald, Schenectady, N. Y., assignors to General Electric Company. Synchronizing apparatus. 1,780,667; Nov. 4.
Barclay, Colin T. (See Barclay, John G., and C. T.)
Barclay, John G., and C. T., Kilmarnock, Scotland. Engine drain or compression relief valve. 1,780,857; Nov. 4.
Bard, Francis N., Highland Park, Ill. Reversing-gear mechanism. 1,780,329; Nov. 4.
Barker, William T., jr., assignor to Hartford-Empire Company, Hartford, Conn. Composite plunger for glass feeders. 1,780,550; Nov. 4.
Barnickel, Wm. S., & Company. (See De Groote, M., and Monson, assignors.)
Barnickel, Wm. S., & Company. (See De Groote, M., Monson, and Wirtel, assignors.)
Barrett Blue Blaze Burner Co. (See Barrett, James J., assignor.)
Barrett, James J., White Plains, N. Y., assignor to Barrett Blue Blaze Burner Co., Inc. Oil burner. 1,780,219; No. 4.
Bartlett Hayward Company, The. (See McGurty, William J., assignor.)
Bartlett Hayward Company, The. (See Wagner, Frederick H., assignor.)
Barton, Theophilus F., Upper Montclair, N. J., assignor to General Electric Company. System of electric distribution. 1,780,668; Nov. 4.
Basch, Arthur C. (See Kelly, William J., assignor.)
Bassett, Edward W., assignor to The Celma Company, Toledo, Ohio. Compact. 1,780,736; Nov. 4.
Batchell, George W., Toledo, Ohio. Glass tank. 1,780,164; Nov. 4.
Bateman, Arthur T., and A. Irvine, assignors to Bohn Aluminum & Brass Corporation, Detroit, Mich. Molding apparatus. 1,780,514; Nov. 4.

Bateman, William H. (See Leach, R. W., and Bateman.)
Bateson, Thomas H., assignor to Multibestos Company, Walpole, Mass. Clutch-ring-shearing machine. 1,780,259; Nov. 4.
Bauer, Eugene C. (See McKee, W. S., and Bauer.)
Bauer, Gustav, and C. Schmieske, Hamburg, Germany. Regulating device for liquid couplings. 1,780,613; Nov. 4.
Bauer, Harry E. (See Costuma, J. A., Bauer, and Lovercheck.)
Baughman, George W., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,780,737; Nov. 4.
Baumberger, William J. (See Yerk, H. H., and Baumberger.)
Baumgartner, Henry H., Belleville, N. J., assignor to Drake Non-Clinkering Furnace Block Company, Inc., New York, N. Y. Steam generator. 1,780,220; Nov. 4.
Baxter, Leon H., Hudson, Ohio. Toy ship. Des. 82,411; Nov. 4.
Bay, Frank N. (See Watts, C. T., and Bay.)
Bayerl, Alfons. (See Becker, F., Helmann, and Bayerl.)
Beach, Willard C., Newark, N. J. Spray nozzle. 1,780,738; Nov. 4.
Bearens, Claude, Brooklyn, N. Y. Power transmission. 1,780,858; Nov. 4.
Becker, Franz, H. Helmann, and A. Bayerl, Dessau in Anhalt, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Esterifying cellulose. 1,780,151; Nov. 4.
Belden, Clements G. (See Frehse, A. W., and Belden.)
Bell & Gossett Company. (See Jones, David J., assignor.)
Bell Telephone Laboratories, Incorporated. (See Bernhard, Lucian, assignor.)
Benczalski, Wojciech, Eureka, Calif. Pencil sharpener. 1,780,371; Nov. 4.
Benjamin, Harry S., Detroit, Mich. Coin-controlled weighing machine. 1,780,165; Nov. 4.
Bennett, Clifford, Richmond, New South Wales, Australia. Reversible steam turbine engine. 1,780,458; Nov. 4.
Benton, Edward A., and M. Linderner, Altoona, Pa. Piston ring. 1,780,697; Nov. 4.
Benzle, Margaret L., New York, N. Y. Corset-steel protector. 1,780,859; Nov. 4.
Berendes, Rudolf, and L. Schütz, Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Betainethiocyanate. 1,780,860; Nov. 4.
Berg, Hans, Grand Rapids, Mich., assignor to Kellogg Switchboard & Supply Co., Chicago, Ill. Cabinet. Des. 82,413; Nov. 4.
Berg, Joseph, Long Island City, N. Y. Insulating block. 1,780,739; Nov. 4.
Bergmann, Conrad, Phidadelphia, assignor to Columbia Steel Equipment Company, Philadelphia, Pa. Follower block. 1,780,861; Nov. 4.
Berlin, Harry, Brooklyn, N. Y. Braided waved braid. 1,780,515; Nov. 4.
Berlinger, Jacob, Brooklyn, N. Y. Finger ring or similar article. Des. 82,470; Nov. 4.
Bernhard, Lucian, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Desk stand for a hand telephone. Des. 82,414; Nov. 4.
Bernhard, Richard, assignor to Traylor Engineering & Manufacturing Company, Allentown, Pa. Gyratory crusher. 1,780,459; Nov. 4.
Bess, Charles, Dunsmuir, Calif. Derailing frog. 1,780,372; Nov. 4.
Bester, Leonard R., Long Island City, N. Y. Locomotive power plant. 1,780,516; Nov. 4.
Beuttell, Alfred W., Norbury, England. Illuminating device. 1,780,373; Nov. 4.
Birch, William M., assignor to Mid-States Steel & Wire Co., Crawfordsville, Ind. Wireworking machine. 1,780,374; Nov. 4.
Birnbaum, Henry, Shelton, Wash. Blowtorch. 1,780,152; Nov. 4.
Blackman, Birt G., assignor of one-third to C. Redfield, Ogden, Utah. Vacuum tube. 1,780,698; Nov. 4.
Blair, Robert S., Stamford, Conn. Soap cake and art of making same. 1,780,330; Nov. 4.
Bleichert, Adolf, & Co., A. G. (See Müller, Max, assignor.)
Bloomfield, Russell C. (See O'Farrell, Thomas, assignor.)
Bloss, Richard R., Columbus, Ohio. Metal sheeting. 1,780,862; Nov. 4.
Blum, Albert, Rapperswil, Switzerland, assignor, by mesne assignments, to Aktiengesellschaft für mechanische Knüpfteppiche System Boyer, Zurich. Knotting device for machines for manufacturing knotted carpets. 1,780,740; Nov. 4.
Blume, William R. (See Dreyfus, C., and Blume.)
Bodle, Virgil H. (See Richardson, C. M., and Bodle.)
Bohl, Hugo, Westfield, N. J., assignor to Radiant Lighting Fixture Co. Inc., New York, N. Y. Lighting fixture or article of similar nature. Des. 82,415; Nov. 4.
Bohn Aluminum & Brass Corporation. (See Bateman, A. T., and Irvine, assignors.)
Boiler Equipment Company. (See Miller, Don M., assignor.)
Bolster, Calvin M., Lakehurst, N. J. Pump. 1,780,614; Nov. 4.
Bond, Joseph E., Appleton, Wis. Agitator. 1,780,166; Nov. 4.
Boorum & Pease Company. (See Mortensen, Jens N., assignor.)
Boston Wire Stitcher Company. (See Maynard, Arthur H., assignor.)
Bovaird & Company. (See Hall, Frank H., assignor.)
Bowen, James, Swansea, Wales. Air cooling the cylinders of internal-combustion engines. 1,780,809; Nov. 4.
Boynton, Lysle G. (See Kallin, W. E., and Boynton.)
Bradford, Jefferson, and C. B. Peoples, Butler, Ky. Foot guard. 1,780,331; Nov. 4.
Bradley, Theodore F., Westfield, N. J., assignor to American Cyanamid Company, New York, N. Y. Treating porous and nonporous materials. 1,780,375; Nov. 4.
Braeburn of Rochester, Inc. (See Elsfeld, Emanuel M., assignor.)
Brahy, Charles, assignor to C. E. Marion, New York, N. Y. Automatic liquid-fuel dispenser. 1,780,292; Nov. 4.
Brickhill, Everard C., North Fitzroy, Australia. Water sprinkler. 1,780,332; Nov. 4.
Briney, Barton H., Indiana Harbor, Ind. Heating boiler. 1,780,576; Nov. 4.
Brooks, William H., Oconomowoc, Wis., and W. Page, New York, N. Y. Apparatus for agitating the contents of storage vessels. 1,780,333; Nov. 4.
Brower, William M., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Radiotransmitting apparatus. 1,780,167; Nov. 4.
Brown, Charles W., San Diego, Calif. Closet-flushing device. 1,780,810; Nov. 4.
Brown Company. (See Richter, George A., assignor.)
Brown, Harry E., Wichita, Kans., assignor to A. H. Nellson, Tulsa, Okla. Grab for drill rods and the like. 1,780,699; Nov. 4.
Brown, Robert S., assignor, by mesne assignments, to The New Britain-Gridley Machine Company, New Britain, Conn. Metal-working machine. 1,780,889; Nov. 4.
Brückel, Waldemar, and R. Schimpf, Berlin, Germany, assignors to General Electric Company. Frequency-responsive signal-receiving apparatus. 1,780,660; Nov. 4.
Brush, Alanson P. (See Nacker, Owen M., assignor.)
Buchmann, John, Hamilton, Ohio. Brush. 1,780,221; Nov. 4.
Buehler, Brownell, Philadelphia, Pa., assignor to Noble & Wood Machine Company. Hoosick Falls, N. Y. Jordan plug. 1,780,863; Nov. 4.
Bull, Arthur W., Naugatuck, Conn., assignor to The Dorr Company, New York, N. Y. Impeller agitator. 1,780,551; Nov. 4.
Bull, Frederic, and F. White, Walsall, England. Nonskid device for the wheels of road vehicles. 1,780,864; Nov. 4.
Bullard Company, The. (See Bullard, E. P., jr., and Kolb, assignors.)
Bullard, Edward J., jr., Stratford, and G. F. Kolb, assignors to The Bullard Company, Bridgeport, Conn. Clutch. 1,780,222; Nov. 4.
Burdick, Earl S., Milwaukie, L. P. Byrne, Portland, and F. W. Chausse, Salem, Oreg. Bottle-capping machine. 1,780,639; Nov. 4.
Burmeister, Hans, Berlin, Germany, assignor to Pyrene-Minimax Corporation. Device for distributing foam for fire-extinguishing purposes. 1,780,168; Nov. 4.
Burnelli, Vincent J., New York, N. Y., assignor to The Uppercu-Burnelli Corporation. Retractible landing gear. 1,780,811; Nov. 4.
Burnelli, Vincent J., New York, N. Y., assignor to The Uppercu-Burnelli Corporation. Airfoil and fuselage connection. 1,780,812; Nov. 4.
Burnelli, Vincent J., New York, N. Y., assignor to The Uppercu-Burnelli Corporation. Airplane. 1,780,813; Nov. 4.
Burnett, Waldo B. (See Williams, I., and Burnett.)
Burnett, Waldo B., and I. Williams, Pittsburgh, Pa., assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Aldehyde amine condensation product. 1,780,334; Nov. 4.
Burnett, William, jr., Marion, assignor to Modern Coal Burner Co., Chicago, Ill. Portable electric lamp. 1,780,779; Nov. 4.
Burns, William, Glasgow, Scotland. Lateral splash guard for road vehicles. 1,780,640; Nov. 4.
Burtnett, Everett R., Pasadena, Calif. Engine clutch-control-actuated speed-change mechanism for transmission gearing. 1,780,460; Nov. 4.
Bush, Wilfred E., et al. (See Christy, Arley B., assignor.)
Byars, George W., Lexington, N. C. Window screen. 1,780,461; Nov. 4.
Byrne, Lewis P. (See Burdick, E. S., Byrne, and Chausse.)
C. N. K. Transmission Corp. (See Christie, H. E., and Couse, assignors.)
Cabot, Godfrey L., Inc. (See Hardy, Arthur C., assignor.)
Cadwallader, John, assignor to The Monarch Manufacturing Company, Tiffin, Ohio. Weed cutter. 1,780,741; Nov. 4.
Cameron, Alexander S., assignor to W. J. Cameron, Chicago, Ill. Optical apparatus. 1,780,291; Nov. 4.
Cameron, William J. (See Cameron, Alexander S., assignor.)
Campbell, Frank G. (See Strong, Leon B., assignor.)
Canton, Allen A., assignor to Cantonice Corporation, New York, N. Y. Electrical pump. 1,780,335; Nov. 4.
Canton, Allen A., New York, N. Y., assignor to Glacier, Inc., of the State of New York. Pumping mechanism. 1,780,336; Nov. 4.

Canton, Allen A., New York, N. Y., assignor to Glacier, Inc., of the State of New York. Pumping mechanism. 1,780,337; Nov. 4.
Canton, Allen A., New York, N. Y., assignor to Glacier, Inc., of the State of New York. Combination motor and pump. 1,780,338; Nov. 4.
Canton, Allen A., New York, N. Y., assignor to Glacier, Inc., of the State of New York. Combination motor and pump. 1,780,339; Nov. 4.
Cantonice Corporation. (See Canton, Allen A., assignor.)
Capobianco, Vincenzo. (See Nanzolini, E., Capobianco, and Scarponi.)
Capwell, George F., Wethersfield, Conn. Producing pictures in colors. 1,780,260; Nov. 4.
Carman, Earl, Walton, N. Y. Vertically-adjustable partition bar for stables. 1,780,577; Nov. 4.
Carmean, James H. (See Carmean, Samuel M. and J. H.)
Carmean, Samuel M. and J. H., Kansas City, Mo. Thermostatic control for electric heaters. 1,780,462; Nov. 4.
Carr, Helena E., Harrison, Mont. Berry picker. 1,780,376; Nov. 4.
Cary, Clifford E., Chicago, Ill. Hinge means for lavatory bowls. 1,780,615; Nov. 4.
Castle, Leon J. (See Webster, William A., assignor.)
Caudle, Fred, et al. (See White, James F., assignor.)
Celanese Corporation of America. (See Dreyfus, C., and Blume, assignors.)
Celma Company, The. (See Bassett, Edward W., assignor.)
Central United National Bank, The. (See McKee, Willis, assignor.)
Certain-teed Products Corporation. (See Codwise, Philip W., assignor.)
Certain-teed Products Corporation. (See Otis, Edward C., assignor.)
Chadbourne, Weston F., Franklin, Mass. Snap-on clip. 1,780,169; Nov. 4.
Chausee, Francis W. (See Burdick, E. S., Byrne, and Chausse.)
Chew, Samuel N., Thornton Heath, assignor to Pneumatic Conveyance & Extraction (1929) Limited, London, England. Dust separator. 1,780,641; Nov. 4.
Christenson, Niels A., Cleveland, Ohio. Compressor. 1,780,642; Nov. 4.
Christianson, Andrew, Pittsburgh, Pa., assignor to Standard Steel Car Corporation. Internal-combustion-engine cooling system. 1,780,517; Nov. 4.
Christie, Howard E., and K. W. Couse, Bronx, assignors to C. N. K. Transmission Corporation, New York, N. Y. Automatic transmission. 1,780,293; Nov. 4.
Christy, Arley B., assignor of one-third to The Light Grain & Milling Company, and one-third to W. E. Bush, Liberal, Kans. Control mechanism for grain-car-unloading apparatus. 1,780,578; Nov. 4.
Chritton, George A., trustee. (See Eckart, George F., assignor.)
Chrysler Corporation. (See Henderson, Herbert V., assignor.)
Clark, J. R., Co., The. (See Kalgren, John E., assignor.)
Clark, James E. (See Clark, Thomas E. and J. E.)
Clark, Robert K., Springfield, Mass., assignor to The American Thread Company, New York, N. Y. Sewing-machine bobbin. 1,780,742; Nov. 4.
Clark, Thomas E. and J. E., assignors to Continuous Train Control Corporation, Detroit, Mich. Track installation to control railway trains. 1,780,416; Nov. 4.
Clarke, Alex A., Chicago, Ill. Cutter head. 1,780,170; Nov. 4.
Clarke, John Q., Crawfordsville, Ind. Burial-casket attachment. 1,780,171; Nov. 4.
Cleveland Pneumatic Tool Company, The. (See Wallace, John F., assignor.)
Cleveland Rock Drill Company, The. (See Richardson, Led L., assignor.)
Cobbs, William N., Pittsburgh, Pa. Locomotive headlight. 1,780,865; Nov. 4.
Codwise, Philip W., Kenmore, N. Y., assignor to Certain-teed Products Corporation, New York, N. Y. Laminated wall board. 1,780,743; Nov. 4.
Coggins, Thomas H. and A. Farrington, Aston, Birmingham, England. Propeller of motor-driven canal and other boats, river barges, and the like. 1,780,552; Nov. 4.
Colt, J. B., Company, The. (See Mandeville, John L., assignor.)
Columbia Steel Equipment Company. (See Bergmann, Conrad, assignor.)
Compagnie International pour la Fabrication des Essences et Petroles. (See Joseph, Alfred, assignor.)
Continental Motors Corporation. (See Niven, Archie M., assignor.)
Continuous Torque Transmission Company. (See Ahlm, Charles E. F., assignor.)
Continuous Train Control Corporation. (See Clark, Thomas E., and J. E., assignors.)
Cook, John T., St. Paul, Minn. Plasterer's brush or the like. 1,780,340; Nov. 4.
Cool, Buol F. (See Cool, Paul L. and B. F.)
Cool, Paul L. and B. F., assignors of 52 per cent to H. McDaniel, Council Bluffs, Iowa. Timer for cream testers. 1,780,377; Nov. 4.
Coons, Perry T., Montclair, N. J., and G. H. Rose, Cleveland, Ohio, assignors to The American Steel and Wire Company of New Jersey. Concrete reenforcement support. 1,780,463; Nov. 4.
Cooper, Simon, Brooklyn, N. Y. Sostenuto piano. 1,780,670; Nov. 4.
Copithorn, Walter E., Natick, Mass. Smoker's pipe. 1,780,866; Nov. 4.
Coppage, John W., Franklin Park, Ill. Wheel-flange lubricator. 1,780,464; Nov. 4.
Cordonnier, Harold J., and C. H. Ziler, Carthage, Mo. Coffin-lowering device. 1,780,700; Nov. 4.
Cornella, Emanuel, Chicago, Ill. Inverted electric motor. 1,780,867; Nov. 4.
Corning Glass Works. (See Lebby, States L., assignor.)
Correll, Charles J., et al. (See Marx, Louis, assignor.)
Corson, Michael G., Jackson Heights, N. Y. Lead alloy amenable to hardening by heat treatment. 1,780,261; Nov. 4.
Cosgrove, Caroline E., administratrix. (See Cosgrove, John W.)
Cosgrove, John W., Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cementing machine. 1,780,341; Nov. 4.
Cosgrove, John W., deceased, by C. E. Cosgrove, administratrix, Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cementing machine. 1,780,342; Nov. 4.
Costume, Jacob A., and H. E. Bauer, New York, and C. L. Lovercheck, Brooklyn, assignors to International Taxameter Corporation, New York, N. Y. Taximeter. 1,780,780; Nov. 4.
Coulson, Edwin, Chiswick, London, England. Knife-grinding mechanism for use with slicing machines. 1,780,868; Nov. 4.
Couse, Kibbey W. (See Christie, H. E., and Couse.)
Cowen, Robert I., New York, N. Y. Colored and tinted parchment paper and the like and manufacture of the same. 1,780,616; Nov. 4.
Cramer, Stanley S., Haddon Heights, assignor to Radio Condenser Company, Camden, N. J. Electrical condenser. 1,780,172; Nov. 4.
Crane, Roland F., Cincinnati, Ohio. Photographic-printing device. 1,780,701; Nov. 4.
Crawford, McGregor and Canby Company, The. (See Mattern, George W., assignor.)
Cregger, Roe B., Richmond, Va. Blowtorch support and scriber. 1,780,814; Nov. 4.
Crippen, Eugene G., Schenectady, N. Y., assignor to General Electric Company. Condenser microphone. 1,780,671; Nov. 4.
Crocker, Thomas F., Chicago, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Telephone system. 1,780,617; Nov. 4.
Crosby, Gorham. (See Gunn, Thomas M., assignor.)
Crouch, Artist B., Detroit, Mich. Piston and piston-ring assembly. 1,780,223; Nov. 4.
Crowe, John M., Covington, Ky., assignor, by mesne assignments, to The Stanley Works, New Britain, Conn. Portable tool. 1,780,173; Nov. 4.
Crowe, John M., Covington, Ky., assignor, by mesne assignments, to The Stanley Works, New Britain, Conn. Portable power saw. 1,780,174; Nov. 4.
Crowley, Lillian F., Vincennes, Ind. Truss brace. 1,780,579; Nov. 4.
Crutchfield, George K., jr., W. C. Northam, and J. C. Kinker, jr., Richmond, Va., assignors to said Crutchfield. Bag-tying machine. 1,780,815; Nov. 4.
Curtis, Charles G., New York, and E. R. Newton, Jamaica, N. Y. Two-cycle internal-combustion engine. 1,780,175; Nov. 4.
Cutler-Hammer, Inc. (See Meuer, George J., assignor.)
Da Costa, James S., Merchantville, N. J., assignor of one-half to J. B. Webb, Detroit, Mich. Setting means for conveying mechanism. 1,780,224; Nov. 4.
Dake, Fred L., assignor to The Foote Company, Inc., Nunda, N. Y. Power-control mechanism. 1,780,869; Nov. 4.
Danker, Karl, New York, N. Y. Armored car. 1,780,518; Nov. 4.
Danner, Philip S., Point Richmond, and J. E. Muth, Berkeley, assignors to Standard Oil Company of California, San Francisco, Calif. Metal amino carbonyls and making the same. 1,780,643; Nov. 4.
Davenport, Leonard M. (See Johnson, Eric G., assignor.)
Davis, Archibald H., jr., assignor to Shaw-Perkins Manufacturing Company, Pittsburgh, Pa. Heat-exchanging apparatus. 1,780,294; Nov. 4.
Davis, Augustine, jr. (See Haupt, Walter H., assignor.)
Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Warper. 1,780,891; Nov. 4.
Davis, John H., New York, N. Y., assignor to Air Line Transportation Company, Philadelphia, Pa. Impelling device. 1,780,580; Nov. 4.
De Dudzeele, Gaston, Paris, France. Device for treating rough tubes and analogous articles with lead. 1,780,870; Nov. 4.
Deere & Company. (See Paul, William L., assignor.)
De Groote, Melvin, St. Louis, and L. T. Monson, Maplewood, Mo., assignors to Wm. S. Barnickel & Company, Webster Groves, Mo. Breaking petroleum emulsions. 1,780,343; Nov. 4.

De Groote, Melvin, St. Louis, L. T. Monson, Maplewood, and A. F. Wirtel, Webster Groves, assignors to Wm. S. Barnickel & Company, Webster Groves, Mo. Breaking petroleum emulsions. 1,780,344; Nov. 4.

De Groote, Melvin, St. Louis, L. T. Monson, Maplewood, and A. F. Wirtel, assignors to Wm. S. Barnickel & Company, Webster Groves, Mo. Breaking petroleum emulsions. 1,780,345; Nov. 4.

De Koning, Arthur E., Portland, Oreg. Sawing machine. 1,780,176; Nov. 4.

Delman, Inc. (See Ellington, Ferdinand W., assignor.)

De Long, Everett M., Detroit, Mich. Intake manifold. 1,780,519; Nov. 4.

De Moulin, Edmond, Los Angeles, Calif. Camera tripod. 1,780,225; Nov. 4.

Dever, Henry F. (See Koch, L. E., and Dever.)

Dewend, William D., South Bend, Ind., assignor, by mesne assignments, to Oliver Farm Equipment Company. Disk harrow. 1,780,644; Nov. 4.

De Witt, William J., Auburn, Mass., assignor to Shoe Form Co., Inc., Auburn, N. Y. Back-part stay. 1,780,177; Nov. 4.

De Witt, William J., assignor to The Shoe Form Co., Inc., Auburn, N. Y. Hosiery form. 1,780,744; Nov. 4.

Dickson, George A., Medway, assignor of one-third to L. M. Dickson, Medway, and one-third to J. A. Anderson, City Mills, Mass. Screen for windows, windshields, and the like. 1,780,871; Nov. 4.

Dickson, Lillian M., et al. (See Dickson, George A., assignor.)

Dieux, Jean, Paris, France. Electric pick-up for gramophone or other sound records. 1,780,378; Nov. 4.

Diller, Alfred, Aesch/Basel, Switzerland. Pencil having a sharpening device for the lead. 1,780,581; Nov. 4.

Dillman, Earnest J., Detroit, Mich., assignor to American Radiator Company, New York, N. Y. Control device. 1,780,417; Nov. 4.

Dinsmoor, Paul A., assignor to Lawrence Paper Manufacturing Company, Lawrence, Kans. Reversible reel for strip-applying machines. 1,780,469; Nov. 4.

Dispersions Process, Inc. (See Pratt, William B., assignor.)

Dodge, Adiel Y., South Bend, Ind. Telephone head set. 1,780,178; Nov. 4.

Donnelley, R. R., & Sons, Company. (See Alger, Harley C., assignor.)

Dorneth, Julius, Berlin-Konradshohe, assignor to the firm Typograph-Gesellschaft m. b. H., Berlin, Germany. Matrix-setting and type-line-casting machine. 1,780,816; Nov. 4.

Dornig, Walter, Berlin-Dahlem, Germany. Constant-speed multifrequency electrical generating apparatus. 1,780,702; Nov. 4.

Dorr Company, The. (See Bull, Arthur W., assignor.)

Dosch, Peter, Stratford, Conn., assignor, by mesne assignments, to Alemite Corporation, Chicago, Ill. Oiling apparatus. 1,780,465; Nov. 4.

Drake Non-Clinkering Furnace Block Company. (See Baumgartner, Henry H., assignor.)

Draper, Clare H., and E. H. Trevett, assignors to Draper Corporation, Hopedale, Mass. Warper. 1,780,892; Nov. 4.

Draper Corporation. (See Davis, Harry A., assignor.)

Draper Corporation. (See Draper, C. H., and Trevett, assignors.)

Dreaper, William P., Hampstead Heath, England. Manufacture of artificial silk and the like. 1,780,346; Nov. 4.

Dreyfus, Camille, and W. R. Blume, New York, N. Y., assignors to Celanese Corporation of America. Ornamental fabric and making the same. 1,780,645; Nov. 4.

Driemeyer, George F. and E. C. Jackson, St. Louis, Mo., assignors, by mesne assignments, to General Steel Castings Corporation, Granite City, Ill. Locomotive structure. 1,780,466; Nov. 4.

Dubois, Charles, assignor to Société Industrielle de Matériel d'Entreprise et de Construction, Paris, France. Motor-driven shears. 1,780,817; Nov. 4.

Duffy, James F., assignor to Duffy Manufacturing Company, Holland, Mich. Automobile floor mat. Des. 82,412; Nov. 4.

Duffy Manufacturing Company. (See Duffy, James F., assignor.)

Dumben, Henry J., Waterville, Iowa. Book rack or support. 1,780,872; Nov. 4.

Duncombe, Tyrrell H., Miami, Fla. Aeroplane. 1,780,672; Nov. 4.

Dunham Company, The. (See Dunham, Ray E., assignor.)

Dunham, Ray E., assignor to The Dunham Company, Berea, Ohio. Core-molding mechanism. 1,780,470; Nov. 4.

Dunlop, Robert R., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Electric controller. 1,780,703; Nov. 4.

Dunn, William T. (See Shows, J. E., and Dunn.)

Du Pont, E. I., de Nemours & Company. (See Burnett, W. B., and Williams, assignors.)

Du Pont, E. I., de Nemours & Company. (See Lawson, Walter E., assignor.)

Du Pont, E. I., de Nemours, & Company. (See Stine, Charles M., assignor.)

Du Pont, E. I., de Nemours, & Company. (See Williams, I., and Burnett, assignors.)

Durchman, Lauri I. L., Petersburg, Va. Manufacturing alpha cellulose. 1,780,347; Nov. 4.

Durdin, Augustus C., jr., Chicago, Ill. Automatically-controlled water-circulating system. 1,780,379; Nov. 4.

Durdin, Augustus C., jr., Chicago, Ill. Automatic control system for electric motors. 1,780,380; Nov. 4.

Dyment Company, The. (See Dyment, Elwood, assignor.)

Dyment, Elwood, Lakewood, assignor to The Dyment Company, Cleveland, Ohio. Tire-display stand. 1,780,381; Nov. 4.

Eastern Tool & Mfg. Co. (See Anderson, Carl E., assignor.)

Eastern Tool & Manufacturing Company. (See Falstrom, Henry W., assignor.)

Eastern Tube and Tool Co. (See Schneider, E. J., and Wiggins, assignors.)

Eaton, John, Schenectady, N. Y., assignor to General Electric Company. Door-closing device. 1,780,673; Nov. 4.

Eby, Hugh H. (See MacFadden, Wilford C., assignor.)

Eckart, George F., assignor to G. A. Chritton, trustee, Chicago, Ill. Differential. 1,780,745; Nov. 4.

Eckeraley, James E., Aberdeen, assignor of one-half to A. Polson, Hoquiam, Wash. Feed-roll mechanism for veneer and shingle machines. 1,780,582; Nov. 4.

Eckert, John A. (See Leety, H. E., Eckert, and Page.)

Eckhard, William K., Dunellen, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y. Sheet-registering mechanism for printing machines. 1,780,848; Nov. 4.

Edwards, Charles B., Mount Clemens, Mich. Listing machine. 1,780,295; Nov. 4.

Edwards, O. M., Company, The. (See Axe, Roy T., assignor.)

Ehrhart, Raymond N., Edgewood, assignor to Elliott Company, Pittsburgh, Pa. Condenser. 1,780,781; Nov. 4.

Einfeldt, Ernest E., Davenport, Iowa, assignor to French & Hecht, Incorporated. Metal wheel and making the same. 1,780,704; Nov. 4.

Eisfeld, Emanuel M., assignor to Braeburn of Rochester, Inc., Rochester, N. Y. Necktie holder. Des. 82,419; Nov. 4.

Electric Auto-Lite Company, The. (See Schwarzmann, W. E., and Strniste, assignors.)

Electric Wheel Company. (See Schooling, Luther L., assignor.)

Electrical Laboratories, Inc. (See Leupold, Henry G., assignor.)

Electrolux Servel Corporation. (See Munters, Carl G., assignor.)

Elite-Diamantwerke Aktiengesellschaft. (See Lesage, Alfred, assignor.)

Elizondo, Rodolfo E., Monterrey, Mexico. Lamp. 1,780,746; Nov. 4.

Ellington, Ferdinand W., Jamaica, assignor to Delman, Inc., New York, N. Y. Shoe. Des. 82,416; Nov. 4.

Ellington, Ferdinand W., Jamaica, assignor to Delman, Inc., New York, N. Y. Shoe. Des. 82,417; Nov. 4.

Ellington, Ferdinand W., Jamaica, assignor to Delman, Inc., New York, N. Y. Shoe. Des. 82,418; Nov. 4.

Ellington, Ferdinand W., Queens County, assignor to Delman, Inc., New York, N. Y. Shoe. Des. 82,469; Nov. 4.

Elliott Company. (See Ehrhart, Raymond N., assignor.)

Elliott, William C., Minco, and E. S. Henry, Medford, Okla. Adjustable high and low pressure switch alarm. 1,780,179; Nov. 4.

Ellis, Forrest T., assignor to General Motors Corporation, Detroit, Mich. Finishing spline shafts. 1,780,747; Nov. 4.

Elsner, Hermann, deceased, Cassel, by C. Wagner, administrator, Cassel-Wilhelmshohe, Germany. Interstage superheating in steam power plants. 1,780,226; Nov. 4.

Emerson, Charles J. (See Jansson, B. G., and Emerson.)

Esborn, Swan. (See Hammer, F. L., Smith, and Esborn.)

Evans Auto Loading Co. Inc., The. (See Seeley, F. L., and Snyder, assignors.)

Evans Auto Loading Co. Inc., The. (See Snyder, Clifford L., assignor.)

Evans Auto Loading Co. Inc., The. (See Tucker, Max D., assignor.)

Evans, Erwin K., Holland Patent, N. Y. Automatic pressure-controlling apparatus. 1,780,583; Nov. 4.

Everlite Novelty Mfg. Corp. (See Fruchtman, Saul W., assignor.)

Ewald, Bernhard K. F., Villingen, Germany, assignor to The Tabulating Machine Company, Endicott, N. Y. Compound type bar. 1,780,674; Nov. 4.

Exploration G. m. b. H. (See Jenny, Willy P., assignor.)

Face-A-Lite Manufacturing Company. (See Nelson, Otto S., assignor.)

Fachnic, Fred, Withrow, Wash. Water motor. 1,780,584; Nov. 4.

Fahrenwald, Frank A., Chicago, Ill. Apron-type conveyer. 1,780,382; Nov. 4.

Falstrom, Henry W., assignor to Eastern Tool & Manufacturing Company, Bloomfield, N. J. Rake. 1,780,180; Nov. 4.

Fansteel Products Company. (See Baker, John C., assignor.)

Farrington, Albert. (See Coggins, T. H., and Farrington.)

Fassen, Charles A., Detroit, Mich. Tree-branch holder. 1,780,181; Nov. 4.

Fay, Richard D., Cambridge, Mass. Apparatus for radiating sound waves. 1,780,349; Nov. 4.

Federal Telegraph Company. (See Brower, William M., assignor.)

Ferling, George W. (See Stoltz, C. F., and Ferling.)

Figg, George E., New York, N. Y. Bow tie. 1,780,418; Nov. 4.

Finsen, Eyvind, assignor to Gleason Works, Rochester, N. Y. Gear-generating machine. 1,780,350; Nov. 4.

Fischer, Paul, New York, N. Y. Railroad-crossing gate and train stop. 1,780,520; Nov. 4.

Fischler, Paul E., Bay City, Mich. Magnetic reproducer. 1,780,419; Nov. 4.

Fisher, Albert H., East Cleveland, Ohio, assignor to H. B. Sabin, Cleveland, Ohio. Litter-gathering device. 1,780,748; Nov. 4.

Fitzgerald, Cecil Y. (See Pierson, C. W., Fitzgerald, and Thomae.)

Flagge, Phillipp F., Milwaukee, Wis. Gutter construction. 1,780,553; Nov. 4.

Fleischmann, Christian, Bloomfield, N. J., assignor to Westinghouse Lamp Company. Bulb-cullett-centering device. 1,780,618; Nov. 4.

Flint, Richard A., Malad, Idaho. Wind and waterproof fixture. 1,780,420; Nov. 4.

Floss, Carl W., Detroit, Mich. Floating reamer. 1,780,554; Nov. 4.

Foote Company, The. (See Dake, Fred L., assignor.)

Forman, Robert E., Cincinnati, Ohio. Air-propelled motorcycle. 1,780,705; Nov. 4.

Fortier, Leon D., Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Liquid-fuel cook stove. 1,780,421; Nov. 4.

Fox, William, Vaudeville Company. (See Fried, Armin, assignor.)

Francsics, Karl, Budapest, Hungary. Trousers hanger. 1,780,153; Nov. 4.

Frankforter, Clarence J., Lincoln, assignor to Frankforter Oil Process, Inc., Omaha, Nebr. Treating hydrocarbons. 1,780,873; Nov. 4.

Frankforter Oil Process, Inc. (See Frankforter, Clarence J., assignor.)

Frederics, E., Ins. (See Frederics, Ernest O., assignor.)

Frederics, Ernest O., assignor to E. Frederics, Inc., New York N. Y. Hair and scalp treating apparatus. 1,780,182; Nov. 4.

Freer, Phelps M., Detroit, Mich. Piston. 1,780,183; Nov. 4.

Freeze, John H., Cape Girardeau, Mo. Boat. 1,780,467; Nov. 4.

Frehse, Albert W., and C. G. Belden, assignors to General Motors Corporation, Detroit, Mich. Clutch. 1,780,749; Nov. 4.

French & Heckt, Incorporated. (See Einfeldt, Ernest E., assignor.)

Fried, Armin, assignor to William Fox Vaudeville Company, Los Angeles, Calif. Camera mounting. 1,780,585; Nov. 4.

Friedmann, Jacob, Freeport, assignor to Kaylon, Incorporated, New York, N. Y. Shirt pocket and making the same. 1,780,874; Nov. 4.

Friend, Wayne Z., Charleston, W. Va., assignor to Baltimore Gas Engineering Corporation. Fractionation apparatus. 1,780,818; Nov. 4.

Frigidaire Corporation. (See Geiler, Frederick C., assignor.)

Frigidaire Corporation. (See Hull, Harry B., assignor.)

Frigidaire Corporation. (See Schmeiding, Warren H. F., assignor.)

Fruchtman, Saul W., Brooklyn, N. Y., assignor to Everlite Novelty Mfg. Corp. Lamp. Des. 82420; Nov. 4.

Fujita, Masa, Sakia-gun, Fukui, Japan. Deformable chair. 1,780,468. Nov. 4.

Fuller Lehigh Company. (See McAuliffe, Sydney J., assignor.)

Furlong, Roland A., assignor to the Yawman & Erbe Manufacturing Company, Rochester, N. Y. Card index system. 1,780,227; Nov. 4.

Fykse, Mitchell L., South Milwaukee, Wis. Rope-thrusting shovel with differential thrust. 1,780,351; Nov. 4.

G. & W. Electric Specialty Co. (See Williams, Paul F., assignor.)

Galloway, Robert M., and R. A. Schafer, assignors to The National Automatic Tool Company, Richmond, Ind. Hydraulic control valve unit. 1,780,471; Nov. 4.

Garand, John C., Springfield, Mass., assignor to The Lyman Gun Sight Corporation, Middlefield, Conn. High-speed firing mechanism. 1,780,521; Nov. 4.

Garden City Plating and Manufacturing Company. (See Kurtzon, Morris, assignor.)

Gardner, Daniel, Rueil, France. Manufacture of high-purity carbon. 1,780,154; Nov. 4.

Geiler, Frederick C., Dayton, Ohio, assignor by mesne assignments, to Frigidaire Corporation. Tray for refrigerating units. 1,780,422; Nov. 4.

General Aniline Works, Inc. (See Hentrich, W., Hardtmann, and Knoche, assignors.)

General Aniline Works, Inc. (See Nawiasky, P., and Krause, assignors.)

General Aniline Works, Inc. (See Pfaffendorf, Wilhelm, assignor.)

General Aniline Works, Inc. (See Thauss, A., and Mauthe, assignors.)

General Electric Company. (See Anderson, Arvid E., assignor.)

General Electric Company. (See Bailey, Percy S., assignor.)

General Electric Company. (See Bany, H., and McDonald, assignors.)

General Electric Company. (See Barton, Theophilus F., assignor.)

General Electric Company. (See Brückel, W., and Schimpf, assignors.)

General Electric Company. (See Crippen, Eugene G., assignor.)

General Electric Company. (See Eaton, John, assignor.)

General Electric Company. (See Hough, Eugene L., assignor.)

General Electric Company. (See Kellogg, Edward W., assignor.)

General Electric Company. (See Newkirk, Burt L., assignor.)

General Electric Company. (See Owens, Joseph W., assignor.)

General Ice Scoring Machine Company, The. (See Roark, Robert H., assignor.)

General Motors Corporation. (See Ellis, Forrest T., assignor.)

General Motors Corporation. (See Frehse, A. W., and Belden, assignors.)

General Motors Corporation. (See Neef, Robert, assignor.)

General Motors Corporation. (See Tenney, Perry L., assignor.)

General Motors Research Corporation. (See Hallett, George E. A., assignor.)

General Motors Research Corporation. (See Phillips, William M., assignor.)

General Motors Research Corporation. (See Short, Charles R., assignor.)

General Steel Castings Corporation. (See Ashe, William O., assignor.)

General Steel Castings Corporation. (See Driemeyer, G. F., and Jackson, assignors.)

Gentilini, Augusto. (See Papò, A., and Gentilini.)

Gesellschaft für Drahtlose Telegraphie m. b. H. (See Schaffer, Walter, assignor.)

Gilbert, A. C., Company, The. (See Lanz, John, assignor.)

Gilger, George V., Cimarron, assignor of one-half to H. B. Marcum, Newton, Kans. Pick-up attachment for combines. 1,780,472; Nov. 4.

Gill Glass and Fixture Company. (See Aglow, Harry, assignor.)

Gill Stella F., Kansas City, assignor to N. S. Hillyard, St. Joseph, Mo. Manacle. 1,780,473; Nov. 4.

Glacier, Inc. (See Canton, Allen A., assignor.)

Glazer, Fred, Dorchester, Mass. Upholstery device. 1,780,474; Nov. 4.

Gleaner Combine Harvester Corporation. (See Hale, Stephen H., assignor.)

Gleason, Kenneth, Hibbing, Minn. Cable-terminal hook. 1,780,184; Nov. 4.

Gleason Works. (See Finsen, Eyvind, assignor.)

Gleichauf, Fred A., Newark, Ohio. Buffet. Des. 82,421; Nov. 4.

Globe Steel Abrasive Company. (See Martin, David, assignor.)

Godefroid, Armand, Berlin, Germany. Coin assorter. 1,780,819; Nov. 4.

Goff, Errol W., Everett, Mass., assignor to Warren Telechron Company. Clock or the like. Des. 82,424; Nov. 4.

Gold, Bruce B. (See Gold, Samuel B. and B. B.)

Gold, Samuel B. and B. B., assignors to Weber Engine Company, Kansas City, Mo. Variable-speed transmission. 1,780,475; Nov. 4.

Goldbecher, Frank, Grantwood, N. J. Automobile table. 1,780,706; Nov. 4.

Golden, Alexander R., New York, and J. I. Kahn, Brooklyn, N. Y. Merchandizing fabric. 1,780,228; Nov. 4.

Goldsborough, Frederick B., Croton-on-Hudson, N. Y. Caisson head. 1,780,586; Nov. 4.

Goodrich, B. F., Company, The. (See Richardson, C. M., and Bodle, assignors.)

Gorbutt, Sidney B., assignor, by mesne assignments, to Willamette-Ersted Company, Portland, Oreg. Bracket for tractor hoists. 1,780,646; Nov. 4.

Gordon, Edward L., McKees Rocks, Pa. Bottle cap and measuring device. 1,780,875; Nov. 4.

Gorsline, Samuel G. (See Wery, Jules, assignor.)

Gosden, Freeman F., et al. (See Marx, Louis, assignor.)

Gotham Knitting Machine Corporation. (See Leavin, William H. and S. B., assignors.)

Gotham Silk Hosiery Company. (See Parlini, Alexander C., assignor.)

Grace, John F., Arlington, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Steam condenser. 1,780,476; Nov. 4.

Grace, John F., Arlington, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Condenser. 1,780,477; Nov. 4.

Grace, John F., Arlington, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Condenser. 1,780,478; Nov. 4.

Graham, William P., assignor to Graham & Zenger, Inc., New York, N. Y. Disk or similar article. Des. 82,422; Nov. 4.

Graham & Zenger, Inc. (See Graham, William P., assignor.)

Grant, Albert E., assignor to Grant Heat Machine Corporation, New York, N. Y. Oil burner. 1,780,185; Nov. 4.

Grant Heat Machine Corporation. (See Grant, Albert E., assignor.)

Grasselli Chemical Company, The. (See Laftman, Axel B., assignor.)

Grasselli Chemical Company, The. (See Lawrence, Ralph E., assignor.)

Green, Estill I., East Orange, N. J., assignor to American Telephone and Telegraph Company. Oscillation generator. 1,780,229; Nov. 4.
Green, Irving I., Brookline, Mass. Camera tripod. 1,780,383; Nov. 4.
Green, Irving I., Brookline, Mass. Filter holder for cameras. 1,780,384; Nov. 4.
Griffith, Floyd H., Kansas City, Mo. Arch corrector. 1,780,479; Nov. 4.
Grigg, Norman C., Drysdale, Victoria, Australia. Method of and apparatus for decorticating, retting, and scutching flax. 1,780,480; Nov. 4.
Gross, Jacob W., Hartford, Conn. Book-backing and press-machine combination. 1,780,296; Nov. 4.
Grosse, Carl, Berlin-Hermsdorf, Germany. Vibratory apparatus. 1,780,878; Nov. 4.
Grove, Cornelius S. (See Miller, W. E., Shinn, and Grove.)
Grunwald, Albert C., River Forest, assignor to Precision Metal Workers, Chicago, Ill. Ash receptacle. Des. 82,423; Nov. 4.
Gunn, Thomas M., Brooklyn, N. Y., assignor of one-sixth to G. Crosby, Glen Ridge, N. J. Fluid-displacement apparatus. 1,780,784; Nov. 4.
Gustafson, August W., Hutto, Tex. Planter attachment. 1,780,587; Nov. 4.
Guyot, Reinhard, Los Angeles, Calif. Toy. 1,780,385; Nov. 4.
Hagel, John L., assignor to The Hagel Wagon Spring Bolster Co., St. Paul, Minn. Hitch. 1,780,186; Nov. 4.
Hagel Wagon Spring Bolster Co., The. (See Hagel, John L., assignor.)
Hahn, Fred A., East Moline, Ill. Washing device. 1,780,155; Nov. 4.
Hahn, Ray, Pleasant Valley, Iowa, assignor of one-half to W. Leese. Vegetable topper. 1,780,820; Nov. 4.
Haight, F. A. (See Jackson, Andrew, assignor.)
Hale, Stephen H., Kansas City, assignor to Gleaner Combine Harvester Corporation, Independence, Mo. Spiral conveyer. 1,780,481; Nov. 4.
Hall, Elbert J. (See Winslow, C. A., and Hall.)
Hall, Frank H., assignor to Hovaird & Company, Bradford, Pa. Sucker-rod turner. 1,780,877; Nov. 4.
Hall, Frederick R., Arncliffe, near Sydney, New South Wales, Australia. Apparatus for extracting moisture from air. 1,780,156; Nov. 4.
Hall, Norman E. (See Krause, John M., assignor.)
Hallett, George E. A., assignor to General Motors Research Corporation, Dayton, Ohio. Variable-speed power-transmission unit. 1,780,423; Nov. 4.
Halsey, Fred H., Texarkana, Ark. Building construction. 1,780,707; Nov. 4.
Hamer, Leland S., and J. Q. Little, Long Beach, Calif. Well tool. 1,780,482; Nov. 4.
Hammer, Forrester L., Branford, W. R. Smith, West Haven, and S. Esborn, assignors to Malleable Iron Fittings Company, Branford, Conn. Remote control device for carburetors. 1,780,522; Nov. 4.
Handley Page Limited. (See Page, Frederick H., assignor.)
Haney, William J., North Vernon, Ind. Tap for dancing slippers or shoes. 1,780,230; Nov. 4.
Hanson, Casper F., assignor to Olson Manufacturing Company, Albert Lea, Minn. Stanchion. 1,780,187; Nov. 4.
Hardtmann, Max. (See Hentrich, W., Hardtmann, and Knoche.)
Hardy, Arthur C., Wellesley, assignor to Godfrey L. Cabot, Inc., Boston, Mass. Optical measuring instrument. 1,780,231; Nov. 4.
Harris, Clara C., Sabina, Ohio. Tally. 1,780,878; Nov. 4.
Harris, George R., Los Angeles, Calif. Street-lighting fixture. Des. 82,425; Nov. 4.
Harrison, John H., Stockton, Calif. Leveling attachment for ladders. 1,780,386; Nov. 4.
Hart, Paul B., Maracaibo, Venezuela. Automatic blowout preventer. 1,780,387; Nov. 4.
Hartford-Empire Company. (See Barker, William T., jr., assignor.)
Haskelite Manufacturing Corporation. (See Meyercord, G. R., and Norris, assignors.)
Haupt, Walter H., Ludlow, Ky., assignor to A. Davis, jr., Cincinnati, Ohio. Apparatus for embossing cans. 1,780,890; Nov. 4.
Havens, Louis A., jr., Queens Village, N. Y. Ammonia-gas detector. 1,780,483; Nov. 4.
Hayman, Eber J., Parkersburg, W. Va. Joint. 1,780,232; Nov. 4.
Heavey, Michael T., Berkeley, Calif. Rack for rolled materials. 1,780,647; Nov. 4.
Hefti, Wilhelm, Wulflingen, assignor to the firm Sulzer Freres Societe Anonyme, Winterthur, Switzerland. Engine cylinder. 1,780,388; Nov. 4.
Heimann, Heinrich. (See Becker, F., Heimann, and Bayerl.)
Hein, August, Brooklyn, N. Y. Belt carrier. 1,780,523; Nov. 4.
Heineman, Warren F., Shorewood, assignor to A. O. Smith Corporation, Milwaukee, Wis. Electric flash welding. 1,780,297; Nov. 4.
Heltzel, John N., Warren, Ohio. Concrete road construction. 1,780,588; Nov. 4.
Henderson, Herbert V., assignor to Chrysler Corporation, Detroit, Mich. Lamp. Des. 82,426; Nov. 4.
Henderson, William H., Youngstown, Ohio. Process of and apparatus for slaking lime. 1,780,821; Nov. 4.
Hendrix, William R., Pacific Palisades, assignor of one-half to H. A. Hyde, Santa Monica, Calif. Water-regulating device. 1,780,589; Nov. 4.
Henry, Earl S. (See Elliott, W. C., and Henry.)
Hentrich, Winfrid, M. Hardtmann, Wiesdorf-on-the-Rhine, and R. Knoche, Leverkusen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Condensation product of the benzodiazine series. 1,780,879; Nov. 4.
Hesson, Charles M., and W. J. Koch, Midland Park, assignors to The Fred H. Knapp Corporation, Ridgewood, N. J. Can-boxing machine. 1,780,424; Nov. 4.
Heuze, Charles, Auvelais, Belgium, assignor, by mesne assignments, to The American Bicheroux Company. Process and apparatus for the manufacture of glass. 1,780,590; Nov. 4.
Hewitt, William R., New York, N. Y. Bolt and nut lock. 1,780,675; Nov. 4.
Higgins, Emma. (See Higgins, John A., assignor.)
Higgins, John A., assignor to E. Higgins, St. Joseph, Mo. Composite lubricant. 1,780,157; Nov. 4.
Highway Trailer Company. (See Williams, Leroy E., assignor.)
Hildebrandt, Ernest A., Indianapolis, and C. McDonaugh, Beech Grove, Ind. Superheater bracket. 1,780,188; Nov. 4.
Hillyard, Newton S. (See Gill, Stella F., assignor.)
Hirsch, Rudolph, North Bergen, assignor to Reiss Premier Pipe Co., Inc., Union City, N. J. Cigarette and cigar holder. 1,780,389; Nov. 4.
Hirschhorn, Benjamin, assignor to Millie Patent Holding Co., Inc., New York, N. Y. Tea cartridge. 1,780,484; Nov. 4.
Hodge, George O., assignor to Standard Steel and Bearings Incorporated, Plainville, Conn. Riveting stays or rivets in ball bearings. 1,780,189; Nov. 4.
Hoe, R., & Co. (See Eckhard, William K., assignor.)
Hoffman, Edward L., Dayton, Ohio. Parachute. 1,780,190; Nov. 4.
Hoffman, Oscar. (See Woodman, Commodore B., assignor.)
Holed-Tite Packing Corporation. (See Koppelman, Morris, assignor.)
Holmes, Herbert G., assignor to Novo Engine Company, Lansing, Mich. Relief valve. 1,780,782; Nov. 4.
Holtzer-Cabot Electric Company, The. (See Kennedy, Carlton L., assignor.)
Honda, Kotaro, Sendai, Japan. Machine for testing and quantitatively indicating the cutting power and durability of blades and cutlery. 1,780,822; Nov. 4.
Hopkins, George F., deceased, Jackson, Mich.; W. K. Sagendorph, executor. Lathe and lathe chuck. 1,780,390; Nov. 4.
Hopkins, John C., Lakewood, and A. Osolin, Cleveland, Ohio. Operating blast furnaces. 1,780,485; Nov. 4.
Hoppe, Emil C., Elizabeth, N. J. Amusement-park building or analogous structure. Des. 82,427; Nov. 4.
Horii, Shinjiro, Tokyo, Japan. Backing for stencil sheets. 1,780,391; Nov. 4.
Horn, Harry L., New York, N. Y., assignor to Bagasse Development Inc. Preparing cellulose pulp. 1,780,750; Nov. 4.
Horni, Paul P., Newark, N. J. Self-starting synchronous motor. 1,780,648; Nov. 4.
Horscraft, Herbert T., Valley Stream, and W. L. King, St. Albans, N. Y. Clothesline and drier. 1,780,708; Nov. 4.
Horton, H. B., et al. (See Olson, E. D., and Horton, assignors.)
Horton, William A. (See Olson, E. D., and Horton.)
Houck, John D., Chicago, Ill. Coffee-making device. 1,780,751; Nov. 4.
Hough, Eugene L., St. Louis, Mo., assignor to General Electric Company. Control system. 1,780,676; Nov. 4.
Huebner-Bleistein Patents Company. (See Huebner, William C., assignor.)
Huebner, William C., Chicago, Ill. Apparatus for making photographic fractional exposures. 1,780,191; Nov. 4.
Huebner, William C., Chicago, Ill., assignor to Huebner-Bleistein Patents Company, Buffalo, N. Y. Photographic-printing apparatus. 1,780,678; Nov. 4.
Huebner, William C., Buffalo, N. Y. Holding and supporting device for printing or print-receiving elements and the like. 1,780,677; Nov. 4.
Huff, Leslie R., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Plate valve. 1,780,524; Nov. 4.
Hull, Harry B., Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation. Refrigerating apparatus. 1,780,425; Nov. 4.
Hutchins Car Roofing Company. (See Wilson, Alfred R., assignor.)
Hyde, Howard A. (See Hendrix, William R., assignor.)
Hyde, Louis B., Detroit, Mich. Hot-water heater. 1,780,426; Nov. 4.
Hydro-Oil Fire Corporation. (See Teale, W., and McLauthlin, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Becker, F., Heimann, and Bayerl, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Knorr, Angelo, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Pungs, Wilhelm, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Pungs, W., and Jahrstorfer, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Siedler, P., and Moeller, assignors.)
Icre, Jean B., New York, N. Y. Craft adapted to travel on land or water or in the air. 1,780,298; Nov. 4.
Iizuka, Bunpachi, San Mateo, Calif. Ash-tray structure. 1,780,591; Nov. 4.
Imperial Chemical Industries Limited. (See Speight, Eric A., assignor.)
Imperial Chemical Industries Limited. (See Warren, Thomas R., assignor.)
Ingalls, Ralph T. (See Rasmussen, Charles, assignor.)
Ingersoll-Rand Company. (See Huff, Leslie R., assignor.)
Ingersoll-Rand Company. (See Redfield, S. B., and Naab, assignors.)
Ingersoll-Rand Company. (See Smith, William A., sr., and W. A., jr., assignors.)
International Business Machines Corporation. (See Peirce, John R., assignor.)
International Combustion Engineering Corporation. (See Van Brunt, John, assignor.)
International Harvest Hat Co. (See Shlenker, Leon M., assignor.)
International Taxameter Corporation. (See Costuma, J. A., Bauer, and Lovercheck, assignors.)
Intertype Corporation. (See Sperry, Arthur G., assignor.)
Irvine, Andrew. (See Bateman, A. T., and Irvine.)
Jackson, Andrew, Binghamton, assignor of one-half to F. A. Haight, Johnson City, N. Y. Deflecting rim for boilers and washing machines. 1,780,192; Nov. 4.
Jackson, Edwin C. (See Driemeyer, G. F., and Jackson.)
Jackson, John W., Moose Jaw, Saskatchewan, Canada. Shock loading and unloading machine. 1,780,299; Nov. 4.
Jacobs Bros. Co. Inc., The. (See Jacobs, Harry M., assignor.)
Jacobs, Harry M., assignor to The Jacobs Bros. Co. Inc., Brooklyn, N. Y. Warming device. 1,780,649; Nov. 4.
Jacobsen, Jens N., Alameda, Calif., assignor to The Pfaudler Company, Rochester, N. Y. Sanitary valve. 1,780,525; Nov. 4.
Jacobus, David S., Montclair, N. J., and W. A. Jones, West New Brighton, N. Y., assignors to The Babcock & Wilcox Company, Bayonne, N. J. Heat-transfer device. 1,780,300; Nov. 4.
Jaenichen, Louis, Springfield Township, Oakland County, assignor to The Standard Computing Scale Company, Detroit, Mich. Lever for scales and making the same. 1,780,262; Nov. 4.
Jahrstorfer, Michael. (See Pungs, W., and Jahrstorfer.)
James Manufacturing Company. (See Markey, George T., assignor.)
Janda, George W., Bismarck, and R. C. Plaggmier, Taylor, assignors to The National Survault Company, Bismarck, N. Dak. Burial vault. 1,780,193; Nov. 4.
Jansson, Bennett T., Kittery, Me., and C. J. Emerson, Winchester, Mass. Screw driver. 1,780,785; Nov. 4.
Jefferson Electric Company. (See Kellner, Louis, assignor.)
Jeffery Manufacturing Company, The. (See Levin, Nils D., assignor.)
Jeffrey Manufacturing Company, The. (See Dunlop, Robert R., assignor.)
Jenkins, Howard, Denver, Colo. Sprinkler. 1,780,233; Nov. 4.
Jennings, Chester S., and L. C. Allen, assignors to The Lamson Company, Syracuse, N. Y. Conveyer system. 1,780,486; Nov. 4.
Jennings, Irving C., South Norwalk, Conn. Sump or bilge pump. 1,780,679; Nov. 4.
Jenny, Will P., Strasburg, Ohio, assignor to the firm Exploration G. m. b. H., Hanover, Germany. Adjustable stand for portable balances. 1,780,158; Nov. 4.
Johansson, Karl O. R., Appelviken, assignor to Aktiebolaget Lindholmen-Motalon, Motala Verkstad, Sweden. Sink mine. 1,780,592; Nov. 4.
Johns-Manville Corp. (See Lawrence, William H., assignor.)
Johnson, Andrew S., St. Paul, Minn. Dry poultry feeder. 1,780,392; Nov. 4.
Johnson, Edward T., Greenfield, assignor to The New England Box Company, Greenfield, Mass. Wire-bound box and making the same. 1,780,709; Nov. 4.
Johnson, Eric G., Brooklyn, N. Y. Button. 1,780,555; Nov. 4.
Johnson, Eric G., assignor of one-half to L. M. Davenport, Trenton, N. J. Bag clasp. 1,780,880; Nov. 4.
Johnson, Erick A., Pine Bluffs, Wyo. Potato-digger blade. 1,780,235; Nov. 4.
Johnson, John, Honolulu, Hawaii. Bed-spring fabric. 1,780,352; Nov. 4.
Johnson Metal Products Co. (See Johnson, Paul G., assignor.)
Johnson, Paul G., Erie, assignor to Johnson Metal Products Co., Erie, Pa. Screen. 1,780,823; Nov. 4.
Johnston, Joseph W., Steubenville, Ohio. Brake drum. 1,780,234; Nov. 4.
Jones, David J., assignor to Bell & Gossett Company, Chicago, Ill. System of pressure and temperature regulation for heaters. 1,780,393; Nov. 4.
Jones, James R. (See Larson, O. J., and Jones.)
Jones, Mary W., Wilkes-Barre, Pa. Combination cabinet. 1,780,353; Nov. 4.
Jones, William A. (See Jacobus, D. S., and Jones.)
Jones, William A., West New Brighton, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Fluid heater. 1,780,301; Nov. 4.
Joseph, Alfred, Enghein, assignor to Compagnie Internationale pour la Fabrication des Essences et Petroles, Paris, France. Apparatus for the hot purification of gases. 1,780,159; Nov. 4.
Jurgensen, Max L., Chicago, Ill. Electric toy. 1,780,487; Nov. 4.
Kahn, Julius I. (See Golden, A. R., and Kahn.)
Kalgren, John E., assignor to The J. R. Clark Co., Minneapolis, Minn. Folding table. 1,780,394; Nov. 4.
Kallin, Wallace E., St. Paul, and L. G. Boynton, Minneapolis, Minn. Metal slat for window shades. 1,780,556; Nov. 4.
Kane, Bernard N., East Liverpool, Ohio, assignor to Warwick China Company, Wheeling, W. Va. Plate. Des. 82,471; Nov. 4.
Kasper, Joseph F., Louisville, Ky. Kitchen cabinet. Des. 82,430; Nov. 4.
Katagiri, Chihiro, Tokio, Japan, assignor to Yoshio Katagiri, New York, N. Y. Mechanical toy. 1,780,557; Nov. 4.
Katagiri, Yoshio. (See Katagiri, Chihiro, assignor.)
Kattwinkel, Hans, Coswig, Germany. Friction body for friction couplings, brakes, and the like. 1,780,710; Nov. 4.
Kaufmann, John J., Elkins Park, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Heddle frame. 1,780,786; Nov. 4.
Kavanau, Ira, New York, N. Y. Hosiery package. 1,780,558; Nov. 4.
Kay, William E., Elyria, Ohio. Cutting machine. 1,780,680; Nov. 4.
Kaylon, Incorporated. (See Friedmann, Jacob, assignor.)
Keller, Walter D., and W. L. Poto, assignors to The Alliance Machine Company, Alliance, Ohio. Ingot-stripping mechanism. 1,780,787; Nov. 4.
Kellner, Louis, Brooklyn, N. Y., assignor to Jefferson Electric Company, Chicago, Ill. Electric switch. 1,780,894; Nov. 4.
Kellner, Louis, Brooklyn, N. Y., assignor to Jefferson Electric Company, Chicago, Ill. Electric switch. 1,780,895; Nov. 4.
Kellogg, Edward W., Schenectady, N. Y., assignor to General Electric Company. Sound recording and reproducing apparatus. 1,780,681; Nov. 4.
Kellogg Switchboard & Supply Co. (See Berg, Hans, assignor.)
Kelly, Jess C., Cambridge, Ohio. Salt and pepper shaker. Des. 82,431; Nov. 4.
Kelly, William J., assignor of one-half to A. C. Basch, Brooklyn, N. Y. Making shoes. 1,780,650; Nov. 4.
Kelvinator Corporation. (See Replogle, John R., assignor.)
Kende, George, East Orange, N. J., assignor to Phonodisc Corporation, New York, N. Y. Sound-reproducing machine. 1,780,194; Nov. 4.
Kennedy, Aubrey M., Los Angeles, Calif. Sound-reproducing mechanism for radios. 1,780,788; Nov. 4.
Kennedy, Carlton L., Braintree, assignor to The Holtzer-Cabot Electric Company, Roxbury, Mass. Condenser induction motor. 1,780,395; Nov. 4.
Kennedy, Carlton L., Braintree, assignor to The Holtzer-Cabot Electric Company, Roxbury, Mass. Induction motor. 1,780,881; Nov. 4.
Kensington Steel Company. (See McKee, W. S., and Bauer, assignors.)
Kerr, Howard J., Westfield, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam boiler. 1,780,619; Nov. 4.
Kettler, Martin F., Houston, Tex. Well screen. 1,780,882; Nov. 4.
Kettmann, Andrew P., and I. W. Anderson, San Jose, Calif. Ladder. 1,780,263; Nov. 4.
Kieffer, John E., assignor to Kieffer Paper Mills, Ewing, Ind. Shock-absorbing cushioning paper and making same. 1,780,526; Nov. 4.
Kieffer Paper Mills. (See Kieffer, John E., assignor.)
King, C. G., & Co. (See King, Clifford G., assignor.)
King, C. G., & Co. (See Smith, Walter E., assignor.)
King, Clifford G., Barrington, assignor to C. G. King & Co., Inc., Providence, R. I. Shoe buckle. Des. 82,432; Nov. 4.
King, Clifford G., Barrington, assignor to C. G. King & Co., Inc., Providence, R. I. Shoe ornament. Des. 82,433; Nov. 4.
King Manufacturing Company, The. (See Roe, Ernest S., assignor.)
King, William B., Columbia, Tenn., assignor to Armour Fertilizer Works, Chicago, Ill. Double-superphosphate manufacture. 1,780,620; Nov. 4.
King, Willis L. (See Horscraft, H. T., and King.)
Kinker, John C., jr. (See Crutchfield, G. K., jr., Northam, and Kinker.)
Kinney, Fay D., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sheet-separating apparatus. 1,780,195; Nov. 4.
Kinney, Frederick C., and W. T. Stockton, Evanston, Ill. Controlling device. 1,780,752; Nov. 4.
Kirkbridge, Walter H., San Francisco, Calif. Supporting railway rails upon ties. 1,780,396; Nov. 4.
Kirkham, Joseph E., Topeka, Kans. Troweling machine for concrete or other plastic material. 1,780,427; Nov. 4.
Klaren, William B., Lexington, Ky. Self-steaming iron. 1,780,236; Nov. 4.

Klauer, Philipp, Nuremberg, Germany, assignor to the Firm Vereinigte Schuhfabriken Bernels-Wessels A. G., Augsburg-Oberhausen, Germany. Baby's shoe. Des. 82,434; Nov. 4.

Knapp, Fred H. Corporation, The. (See Hesson, C. M., and Koch, assignors.)

Knoche, Rudolf. (See Heutrich, W., Hardtmann, and Knoche.)

Knorr, Angelo, Berlin, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Solution of cellulose derivatives. 1,780,883; Nov. 4.

Koch, Lawrence E., and H. F. Dever, assignors, by mesne assignments, to Time-O-Stat Controls Company, Elkhart, Ind. Actuator for controlling devices. 1,780,302; Nov. 4.

Koch, William J. (See Hesson, C. M., and Koch.)

Kohnle, Frederick, assignor to The Monarch Marking System Company, Dayton, Ohio. Price tag. 1,780,488; Nov. 4.

Kohnle, Frederick, assignor to The Monarch Marking System Company, Dayton, Ohio. Price-marking tag. 1,780,753; Nov. 4.

Kolb, George F. (See Bullard, E. P., jr., and Kolb.)

Kolber, Morris, Brooklyn, assignor to New Diamond Point Pen Co., Inc., New York, N. Y. Fountain pen. 1,780,527; Nov. 4.

Koppelman, Morris, Brooklyn, N. Y., assignor, by mesne assignments, to Holed-Tite Packing Corporation. Packing for fragile articles. 1,780,264; Nov. 4.

Koppers Company, The. (See Van Ackeren, Joseph, assignor.)

Kraemer, August F., assignor to Louis Stern Company, Providence, R. I. Extension device for bracelets. 1,780,824; Nov. 4.

Kratz, Edouard M., assignor to Marsene Products Co., Chicago, Ill. Transparent-paper machine. Re17,854; Nov. 4.

Krause, Artur. (See Nawiasky, P., and Krause.)

Krause, John M., assignor of one-half to N. E. Hall, Los Angeles, Calif. Toy top. Des. 82,435; Nov. 4.

Krause, Wilhelm, Berlin, Germany. Coin-operated telephone apparatus for automatic telephone exchanges. 1,780,754; Nov. 4.

Krippendorf Kalculator Company. (See Leslie, Bernard S., assignor.)

Kuhn, Frank, assignor to American Electrical Heater Company, Detroit, Mich. Handle assembly. 1,780,825; Nov. 4.

Kuhn, Frank, assignor to American Electrical Heater Company, Detroit, Mich. Handle assembly. 1,780,826; Nov. 4.

Kulair Corporation. (See Kusel, Abraham J., assignor.)

Kurtzon, Morris, Highland Park, assignor to Garden City Plating and Manufacturing Company, Chicago, Ill. Roller or caster. 1,780,755; Nov. 4.

Kusel, Abraham J., Baltimore, Md., assignor to Kulair Corporation. Refrigerating valve and constructing the same. 1,780,593; Nov. 4.

Laftman, Axel B., Bayonne, N. J., assignor, by mesne assignments, to The Grasselli Chemical Company, Cleveland, Ohio. Reducing the zinc-oxide content of lithopone. 1,780,559; Nov. 4.

La Hodny, William, assignor to Standard Mirror Company, Inc., Buffalo, N. Y. Combined mirror and instrument. Des. 82,436; Nov. 4.

Lamson Company, The. (See Jennings, C. S., and Allen, assignors.)

Landrock, Paul, Rochester, N. Y., assignor to Photostat Corporation, Providence, R. I. Photographic apparatus. 1,780,489; Nov. 4.

Laue, Abbot A., New Rochelle, N. Y. Fire wall for furnaces. 1,780,303; Nov. 4.

Langford, George W., Ann Arbor, Mich. Baling press. 1,780,528; Nov. 4.

Lanhoffer, Edmond O., Poissy, France, assignor to Asbestos Panels Corporation, New York, N. Y. Process and apparatus for reproducing by stamping. 1,780,560; Nov. 4.

Lansdown, Norman D., assignor to Standard-Trump Bros. Machine Company, Wilmington, Del. Circular-knitting machine. 1,780,756; Nov. 4.

Lanterman, Lloyd S., La Canada, Calif. Steam or vapor generator. 1,780,529; Nov. 4.

Lanz, John, assignor by mesne assignments to The A. C. Gilbert Company, New Haven, Conn. Electric fan. 1,780,789; Nov. 4.

Larsen, Charles, Denver, Colo. Apparatus for the removal of obstructive matter from oil wells. 1,780,428; Nov. 4.

Larson, Oscar J., and J. R. Jones, assignors to Art Metal Construction Company, Jamestown, N. Y. Compressor and locking means therefor. 1,780,354; Nov. 4.

Lashenick, Joseph, Brooklyn, N. Y. Advertising display apparatus. 1,780,651; Nov. 4.

Lasker, William W., Brooklyn, assignor to Remington Rand Incorporated, New York, N. Y. Tabulating machine. 1,780,621; Nov. 4.

Lassen, Grover V. (See White, Ezekiel F., assignor.)

Latour, André, Grenoble, France. Rectifier of the synchronous type. 1,780,827; Nov. 4.

Lawaczeck, Franz, Munich, Germany, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Utilization of hydraulic energy. 1,780,490; Nov. 4.

Lawrence Paper Manufacturing Company. (See Dinsmoor, Paul A., assignor.)

Lawrence, Ralph E., Wickliffe, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Acid treatment of metal articles. 1,780,594; Nov. 4.

Lawrence, Ralph E., Wickliffe, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Inhibitor. 1,780,595; Nov. 4.

Lawrence, William H., New York, N. Y., assignor to Johns-Manville Corp. Protective covering for bridges. 1,780,622; Nov. 4.

Lawson, Clarence A., jr. (See Lawson, Clarence A., sr., and C. A., jr.)

Lawson, Clarence A., sr., and C. A., jr., Los Angeles, Calif. Dental cabinet. 1,780,757; Nov. 4.

Lawson, Walter E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coating composition. 1,780,652; Nov. 4.

Leach, Robert W., and W. H. Bateman, Newport, England. Valve. 1,780,160; Nov. 4.

Leach, Robert W., and W. H. Bateman, Newport, England. Valve. 1,780,828; Nov. 4.

Leamy, Alan H., Auburn, Ind., assignor to Manning & Co., Chicago, Ill. Automobile. Des. 82,428; Nov. 4.

Leamy, Alan H., Auburn, Ind., assignor to Manning & Co., Chicago, Ill. Automobile. Des. 82,437; Nov. 4.

Leavin, Samuel B. (See Leavin, William H. and S. B.)

Leavin, William H. and S. B., assignors by mesne assignments to Gotham Knitbac Machine Corporation, New York, N. Y. Knitting needle. 1,780,790; Nov. 4.

Lebaron Detroit Company. (See Roberts, R. S., and Votypka, assignors.)

Lebby, States L., assignor to Corning Glass Works, Corning, N. Y. Projector. 1,780,355; Nov. 4.

Lebeis, Martin, Berlin, Germany, assignor to Remington Rand Incorporated, New York, N. Y. Tabulating machine. 1,780,884; Nov. 4.

Leese, William. (See Hahn, Roy, assignor.)

Leety, Harry E., and J. A. Eckert, Pittsburgh, and A. W. Page, Penn Township, Allegheny County, assignors to P. Wall Manufacturing Supply Company, Pittsburgh, Pa. Furnace. 1,780,783; Nov. 4.

Lehrecke, Hans, Frankfort-on-the-Main, Germany, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Evolution of hydrocyanic acid. 1,780,196; Nov. 4.

Lehrecke, Hans, Frankfort-on-the-Main, Germany, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Causing the simultaneous evolution of hydrocyanic acid and an irritant gas. 1,780,197; Nov. 4.

Lehrecke, Hans, Frankfort-on-the-Main, Germany, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Stabilization of hydrocyanic acid. 1,780,198; Nov. 4.

Lenderink, Andrew, Kalamazoo, Mich. Filter bed. 1,780,791; Nov. 4.

Leopold, Samuel N. (See McClelland, R., Powell, and Leopold.)

Lesage, Alfred, Brand-Erbisdorf, assignor to Elite-Diamantwerke Aktiengesellschaft, Brand-Erbisdorf, Saxonia, Germany. Piston for internal-combustion engines. 1,780,829; Nov. 4.

Leslie, Bernard S., Beverly, Mass., assignor to Krippendorf Kalculator Company, Portland, Me. Area-estimating device for sheet material. 1,780,237; Nov. 4.

Lessing, Rudolf, London, England. Treatment of carbonaceous materials. 1,780,830; Nov. 4.

Leupold, Henry G., Cambridge, assignor to Electrical Laboratories, Inc., Boston, Mass. Thermostatic apparatus. 1,780,758; Nov. 4.

Leveque, Bernard T., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Bobbin-winding machine. 1,780,304; Nov. 4.

Levin, Nils D., assignor to The Jeffery Manufacturing Company, Columbus, Ohio. Mining machine. Re17,855; Nov. 4.

Lewis, William Utica, N. Y. Convertible single or double bed. 1,780,792; Nov. 4.

Leyton, Geoffrey B. (See Leyton, Helen G. and G. B.)

Leyton, Helen G. and G. B., Oxford, England. Knitting machine. 1,780,831; Nov. 4.

Liberman, Meyer, Vallejo, Calif. Trousers. 1,780,356; Nov. 4.

Lichter, Ira J., Teaneck, N. J. Call system. 1,780,711; Nov. 4.

Light Grain & Milling Company, The, et al. (See Christy, Arley B., assignor.

Lincoln, Robert A., assignor of one-half to American Iron & Machine Works, Inc., Tonkawa, Okla. Weight indicator. 1,780,238; Nov. 4.

Linderman, Bert A., New York, N. Y., assignor to Linderman & Co., Wilmington, Del. Fluid-pressure-operated device. 1,780,199; Nov. 4.

Linderman, Bert A., assignor to Linderman & Company, New York, N. Y. Metallic shoe for fluid-pressure-operated brakes. 1,780,200; Nov. 4.

Linderman & Co. (See Linderman, Bert A., assignor.)

Linderner, Mathius. (See Benton, E. A., and Linderner.)

Lindsay Light Company. (See Little, Robert L., assignor.)

Linn, C. E., et al. (See Olson, E. D., and Horton, assignors.)

Lipkowski, Iwan, Detroit, Mich. Frame for display signs and the like. 1,780,305; Nov. 4.

Little, John Q. (See Hamer, L. S., and Little.)

Little, Robert L., assignor to Lindsay Light Company, Chicago, Ill. Flexible coupling. 1,780,712; Nov. 4.

Locke Insulator Corporation. (See Rowland, Davidge H., assignor.)

Loetscher, Emil C., Dubuque, Iowa. Manufacturing building material of varying densities. 1,780,623; Nov. 4.

Lolley, William H., New York, N. Y. Lifting jack. 1,780,265; Nov. 4.

Lolley, William H., New York, N. Y. Lifting jack. 1,780,266; Nov. 4.

Lovercheck, Charles L. (See Costuma, J. A., Bauer, and Lovercheck.)

Lucomlin, Morris, New York, N. Y. Costume jewelry clasp. Des. 82,429; Nov. 4.

Lyman Gun Sight Corporation. (See Garand, John C., assignor.)

MacFadden, Wilford C., Fox Chase, assignor to H. H. Eby, Philadelphia, Pa. Socket for tubes. 1,780,778; Nov. 4.

Maeulen, Adolph, assignor to Williamsport Mirror & Glass Co., Williamsport, Pa. Ventilator. 1,780,491; Nov. 4.

Mahon, R. C., Company, The. (See Miller, William G., assignor.)

Malleable Iron Fittings Company. (See Hammer, F. L., Smith, and Esborn, assignors.)

Mallory, Edward B., Tenafly, N. J. Refrigerator unit. Des. 82,438; Nov. 4.

Mallory, Edward B., Tenafly, N. J. Refrigerator unit. Des. 82,439; Nov. 4.

Malm, Edward A., Wadena, Minn. Rain drain for window screens. 1,780,492; Nov. 4.

Malone, John P., assignor of one-half to A. P. Young, Chicago, Ill. Apparatus and method for chilling meats. 1,780,267; Nov. 4.

Mandeville, John L., Arlington, N. J., assignor to The J. B. Colt Company. Burner. 1,780,596; Nov. 4.

Manly, Basil M., et al., executors. (See Manly, Charles M.)

Manly, Charles M., deceased, Kew Gardens, N. Y., by J. M. Manly, Chicago, Ill., B. M. Manly, Washington, D. C., and W. G. Manly, Columbia, Mo., executors, assignors to Overman Cushion Tire Company, Inc. Vehicle tire. 1,780,306; Nov. 4.

Manly, John M., et al., executors. (See Manly, Charles M.)

Manly, William G., et al., executors. (See Manly, Charles M.)

Manning & Co. (See Leamy, Alan H., assignor.)

Manning & Co. (See Van Ranst, Cornelius W., assignor.)

Manning, Harry D., Kalmazoo, Mich. Temporary binder. 1,780,429; Nov. 4.

Manzolini, Ettore, V. Capobianco, and F. Scarponi, Rome, Italy. Device to insure the bursting of all kinds of bombs in whatever position of impact or fall. 1,780,624; Nov. 4.

Marcum, Harvey B. (See Gilger, George V., assignor.)

Marion, Charles E. (See Brahy, Charles, assignor.)

Markey, George T., assignor to James Manufacturing Company, Fort Atkinson, Wis. Brooder stove. 1,780,430; Nov. 4.

Marsene Products Co. (See Kratz, Edouard M., assignor.)

Martin, Charles A., Chicago, Ill. Circuit-breaking device. 1,780,202; Nov. 4.

Martin, David, assignor to The Globe Steel Abrasive Company, Mansfield, Ohio. Process and mechanism for making metal pellets. 1,780,201; Nov. 4.

Marx, Louis, New York, N. Y., assignor to C. J. Correll and F. F. Gosden, Chicago, Ill. Vehicle toy. Des. 82,440; Nov. 4.

Maschek, Henry, Wichita Falls, Tex. Dirt mover. 1,780,239; Nov. 4.

Mastin, Clarence W., San Antonio, Tex. Pocket structure for garments. 1,780,204; Nov. 4.

Mattern, George W., assignor to The Crawford, McGregor and Canby Company, Dayton, Ohio. Golf-club head. 1,780,625; Nov. 4.

Matthiessen, Conrad H., jr. (See Parker, Arnold G., assignor.)

Matthiessen, Conrad H., jr., New York, N. Y. Aeroplane. 1,780,561; Nov. 4.

Mattison, Carl L., assignor to Mattison Machine Works, Rockford, Ill. Feed-control means for turning machines. 1,780,203; Nov. 4.

Mattison Machine Works. (See Mattison, Carl L., assignor.)

Maurel, Henry F., Providence, R. I., assignor to Maurel Investment Corporation. Manufacturing fuel briquettes. 1,780,205; Nov. 4.

Maurel Investment Corporation. (See Maurel, Henry F., assignor.)

Mauthe, Gustav. (See Thauss, A., and Mauthe.)

Mayhall, John M., and H. C. Morrison, Milwaukee, Wis. Liquid-testing device. 1,780,597; Nov. 4.

Mayhall, John M., and H. C. Morrison, Milwaukee, Wis. Liquid-measuring device. 1,780,598; Nov. 4.

Maynard, Arthur H., Warwick, R. I., assignor to Boston Wire Stitcher Company, Portland, Me. Stapling machine. 1,780,530; Nov. 4.

McAdams, Shasta E., H. P. Skaggs, and J. T. Singhurst, Erie, Kans. Electric-light socket. 1,780,832; Nov. 4.

McAuliffe, Sydney J., Sydney, New South Wales, Australia, assignor, by mesne assignments, to Fuller Lehigh Company. Producing water gas. 1,780,759; Nov. 4.

McBride, Williard M., Pittsburgh, Pa. Reamer. 1,780,246; Nov. 4.

McCarroll, Charles, Helena, Ala. Aero propeller. 1,780,431; Nov. 4.

McClelland, Ralph, H. K. Powell, and S. N. Leopold, assignors to Morris Paper Mills Company, Chicago, Ill. Display box. 1,780,760; Nov. 4.

McCormick, Hugh M., Huntington, Ind. Pipe for smoking tobacco. 1,780,682; Nov. 4.

McDaniel, Howard. (See Cool, Paul L. and B. F., assignors.)

McDevitt, Frank J., St. Louis, Mo. Acid-sludge burner. 1,780,653; Nov. 4.

McDonald, Frank W., Lawrence, Kans. Building. Des. 82,442; Nov. 4.

McDonald, Gordon R. (See Barry, H., and McDonald.)

McDonald, John J., West View, Pa. Tire. Des. 82,441; Nov. 4.

McDonaugh, Charles. (See Hildebrandt, E. A., and McDonaugh.)

McElroy, James H. (See Riley, R. S., and McElroy.)

McEwan, Andrew J., Tulsa, Okla. Control or power lever mechanism. 1,780,713; Nov. 4.

McGerry, James J., Grand Rapids, and C. H. Whiting, Kalamazoo, Mich., assignors to Rotary Utility Corporation, Chicago, Ill. Rotary chair. Des. 82,443; Nov. 4.

McGerry, James J., Grand Rapids, and C. H. Whiting, Kalamazoo, Mich., assignors to Rotary Utility Corporation, Chicago, Ill. Chair. Des. 82,444; Nov. 4.

McGovern, Daniel F., Montpelier, Vt. Polishing wheel. Re17,853; Nov. 4.

McGregor, James A., Cleveland, Ohio. Corner die. 1,780,432; Nov. 4.

McGregor, James A., Cleveland, Ohio. Die for flanging sheet metal. 1,780,433; Nov. 4.

McGurty, William J., assignor to The Bartlett Hayward Company, Baltimore, Md. Processing furnace dust. 1,780,833; Nov. 4.

McIntosh Electrical Corporation. (See Pullwitt, Herman P., assignor.)

McIntosh, James, Cleveland Heights, Ohio. Fuel mixer for internal-combustion engines. 1,780,626; Nov. 4.

McKee, Walter S., and E. C. Bauer, assignors to Kensington Steel Company, Chicago, Ill. Dipper tooth. 1,780,397; Nov. 4.

McKee, Willis, Cleveland, Ohio, assignor to The Central United National Bank. Conveyer and conveyer roller. 1,780,493; Nov. 4.

McKellar, Archibald D., Park Ridge, Ill. Comb. 1,780,206; Nov. 4.

McLaurin, William W., Brookfield, Mass. Coated paper and manufacturing same. 1,780,793; Nov. 4.

McLauthlin, Herbert F. (See Teale, W., and McLauthlin.)

McLennan, Arpad, Kitscoty, Alberta, Canada. Portable grain-loading device. 1,780,307; Nov. 4.

McNally, John R., Raleigh, N. C. Calculating device. 1,780,494; Nov. 4.

Melendez, Leandro E., New York, N. Y. Magazine pencil. 1,780,207; Nov. 4.

Melling, Herbert T., New York, N. Y. Valve. 1,780,562; Nov. 4.

Messer, Adolf, Frankfort-on-the-Main, Germany. Apparatus for separating liquids into constituents possessing a low-boiling point and constituents possessing a high-boiling point by distillation and rectification. 1,780,563; Nov. 4.

Messer, Vladimir V., New York, N. Y., assignor to Selberling Rubber Company, Barberton, Ohio. Making pump members. 1,780,208; Nov. 4.

Messier, George L. R. J., Montrouge, France. Pneumatic suspension for airplanes. 1,780,531; Nov. 4.

Metcalfe, Robert F., assignor to Socony Burns Corporation, Brooklyn, N. Y. Fuel burner and control therefor. 1,780,357; Nov. 4.

Metro-Goldwyn-Mayer Corporation. (See Wise, Anthony G., assignor.)

Meuer, George J., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electric switch. 1,780,434; Nov. 4.

Meyer, Henry, Hambury, Germany. Driving mechanism used in connection with dental tools. 1,780,495; Nov. 4.

Meyercord, George R., Chicago, Ill., and C. B. Norris, Grand Rapids, Mich., assignors to Haskelite Manufacturing Corporation. Embossing plywood. 1,780,496; Nov. 4.

Micro Machine Company. (See York, H. H., and Baumberger, assignors.)

Mid-States Steel & Wire Co. (See Birch, William M., assignor.)

Milcor Steel Company. (See Siebenlist, Anthony G., assignor.)

Miller, Don M., assignor to Boiler Equipment Company, Waterloo, Iowa. Flue cleaner. 1,780,435; Nov. 4.

Miller, Ford S., New Salem, Kans. Clutch mechanism. 1,780,241; Nov. 4.

Miller, James L., assignor to Rex Research Corporation, Toledo, Ohio. Cleaner-set package. 1,780,268; Nov. 4.

Miller, John C., Chicago, Ill. Apparaus for cleaning out conduits and the like. 1,780,436; Nov. 4.

Miller, John G. (See Primas, Alexander, assignor.)

Miller, William E., R. J. Shinn, and C. S. Grove, Hickory, N. C. Cotton picker. 1,780,497; Nov. 4.

Miller, William G., assignor to The R. C. Mahon Company, Detroit, Mich. Oven construction. 1,780,269; Nov. 4.

Millie Patent Holding Co. (Hirschhorn, Benjamin, assignor.)

Mills, Bert E., Oak Park, assignor to Mills Novelty Company, Chicago, Ill. Volume-controlling device for automatic phonographs or the like. 1,780,437; Nov. 4.

Mills Novelty Company. (See Mills, Bert E., assignor.)

Miner, William H., Chazy, N. Y., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,780,358; Nov. 4.
Miner, W. H., Inc. (See Miner, William H., assignor.)
Mitchell-Crankless Engines Corporation. (See Sherman, Thomas L., assignor.)
Mitchell, Eugene F. (See Pribnow, J. F., and Mitchell.)
Mock, Judson, Voehringer Company. (See Sutcliffe, Fred, jr., assignor.)
Modern Coal Burner Co. (See Burnett, William, jr., assignor.)
Moeller, August. (See Siedler, P., and Moeller.)
Molitor, Charles B. J., New York, N. Y. Spanish lace for dresses. Des. 82,445; Nov. 4.
Molyneux, George E., Bayonne, N. J. Power-transmitting mechanism. 1,780,654; Nov. 4.
Monarch Manufacturing Company, The. (See Cadwallader, John, assignor.)
Monarch Marking System Company, The. (See Kohnle, Frederick, assignor.)
Monson, Louis T. (See De Groote, M., and Monson.)
Monson, Louis T. (See De Groote, M., Monson, and Wirtel.)
Moore, James R., Springfield, Colo. Chain carrier and pull. 1,780,834; Nov. 4.
Moore, Roger E., New York, N. Y. Mounting for shade fixtures. 1,780,271; Nov. 4.
Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,780,270; Nov. 4.
Morgan, Mathew B., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Air compressor. 1,780,398; Nov. 4.
Morimura Bros. Inc. (See Tomita, Urasaburo, assignor.)
Morris, Albert S., Oakland, Calif. Adjustable water-sprinkler holder. 1,780,308; Nov. 4.
Morris Paper Mills Company. (See McClelland, R., Powell, and Leopold, assignors.)
Morris Truck and Wheel Co. Inc. (See Naschke, Harry C., jr., assignor.)
Morrison, Howard C. (See Mayhall, J. M., and Morrison.)
Morse, William J., Attleboro, Mass. Combined collar and necktie holder. 1,780,532; Nov. 4.
Mortensen, Jens N., Brooklyn, assignor to Boorum & Pease Company, New York, N. Y. Loose-leaf binder. 1,780,835; Nov. 4.
Motor Wheel Corporation. (See Wilson, Moses W. H., assignor.)
Muller, Gertrude A., Fort Wayne, Ind. Child's costumer. Des. 82,446; Nov. 4.
Muller, Max, assignor to firm Adolf Bleichert & Co., A. G., Leipzig, Germany. Running wheel of passenger aerial cableways. 1,780,627; Nov. 4.
Multibestos Company. (See Bateson, Thomas H., assignor.)
Munson, Edmund L., Mount Kisco, N. Y. Hospital bed. 1,780,399; Nov. 4.
Munters, Carl G., Stockholm, Sweden, assignor to Electrolux Servel Corporation, New York, N. Y. Refrigeration. 1,780,272; Nov. 4.
Muth, John E. (See Danner, P. S., and Muth.)
Myers, Walter, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Stitch-forming mechanism for sewing machines. 1,780,309; Nov. 4.
Naab, Julius. (See Redfield, S. B., and Naab.)
Naamlooze Venootschap Nederlandsche Kabelfabriek. (See Proos, Cornelis F., assignor.)
Nabholz, Hans, Essonnes, France. Dyeing machine. 1,780,628; Nov. 4.
Nacker, Owen M., assignor of one-half to A. P. Brush, Detroit, Mich. Brake-equalising mechanism. 1,780,498; Nov. 4.
Naschke, Harry C., jr., assignor to Morris Truck and Wheel Co. Inc., Philadelphia, Pa. Thread-guard caster. 1,780,761; Nov. 4.
National Automatic Tool Company, The. (See Galloway, R. M., and Schafer, assignors.)
National Supply Company, The. (See Archer, Merton T., assignor.)
National Survault Company, The. (See Janda, G. W., and Plaggmier, assignors.)
Nawinsky, Paul, and A. Krause, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. New vat dyestuffs. 1,780,836; Nov. 4.
Neef, Robert, assignor to General Motors Corporation, Detroit, Mich. Transmission lock and interlock. 1,780,762; Nov. 4.
Neilson, Albert H. (See Brown, Harry E., assignor.)
Nelson, Otto S., Mitchell, assignor to Face-A-Lite Manufacturing Company, Mitchell, S. Dak. Glare-shield holder. 1,780,400; Nov. 4.
Nelson, Simon, Duluth, Minn. Match-manufacturing machine. 1,780,359; Nov. 4.
Newbery, John W., Rockville Center, N. Y. Liquid-fuel burner. 1,780,273; Nov. 4.
New Britain-Gridley Machine Company, The. (See Brown, Robert S., assignor.)
New Diamond Point Pen Co. (See Kolber, Morris, assignor.)
New England Box Company, The. (See Johnson, Edward T., assignor.)
Newkirk, Burt L., Schenectady, N. Y., assignor to General Electric Company. Method and apparatus for heat removal by mercury. 1,780,683; Nov. 4.
Newton, Earle R. (See Curtis, C. G., and Newton.)
Nichols, Edgar B., Camden, N. J., assignor to The Pfaudler Co., Rochester, N. Y. Liquid-processing apparatus. 1,780,794; Nov. 4.
Nichols, Robert P., Port Chester, N. Y. Clock casing. Des. 82,447; Nov. 4.
Niven, Archie M., assignor to Continental Motors Corporation, Detroit, Mich. Sleeve-valve engine-cylinder head. 1,780,763; Nov. 4.
Noble, John H., Kalamazoo, Mich. Rotary shaft packing. 1,780,764; Nov. 4.
Noble & Wood Machine Company. (See Buehler, Brownell, assignor.)
Norris, Charles B. (See Meyercord, G. R., and Norris.)
Northam, Waters C. (See Crutchfield, G. K., jr., Northam, and Kinker.)
Norwood, Harry G., Washington, D. C., assignor to T. F. von Dorn, New York, N. Y. Railway-rail anchor. 1,780,714; Nov. 4.
Nott, Albin J., New York, N. Y. Surface condenser. 1,780,837; Nov. 4.
Novelli, Luis, Bahia Blanca, Argentine Republic. System of ignition for explosive mixtures. 1,780,499; Nov. 4.
Novo Engine Company. (See Holmes, Herbert G., assignor.)
Nyrop, Aage, Copenhagen, Denmark. Sludge separator. 1,780,655; Nov. 4.
O'Connor, Arthur F., assignor to Union Railway Equipment Company, Chicago, Ill. Ice bunker for refrigerator cars. 1,780,765; Nov. 4.
O'Farrell, Thomas, Claremont, assignor to R. C. Bloomfield, Los Angeles, Calif. Agitating, mixing, and circulating machine. 1,780,360; Nov. 4.
O'Hara, Elwin L., Antioch, Calif. Spray-tank agitator. 1,780,500; Nov. 4.
Oliver Farm Equipment Company. (See Dewend, William D., assignor.)
Olsen, John K., assignor to Stewart-Warner Corporation, Chicago, Ill. Fuel-feeding apparatus for internal-combustion engines. 1,780,310. Nov. 4.
Olson, Elmer D., Grand Island, and W. A. Horton, Hastings, Nebr.; said Olson assignor to H. B. Horton, Des Moines, Iowa, and C. E. Linn, Hastings, Nebr. Poultry marker. 1,780,715; Nov. 4.
Olson Manufacturing Company. (See Hanson, Casper F., assignor.)
Oppenheim, Jesse, New York, N. Y. Hairdressing accessory. 1,780,766; Nov. 4.
Osinga, Thomas J., Chicago, Ill. Plumb protector for elevator guides. 1,780,501; Nov. 4.
Osolin, Alfred. (See Hopkins, J. C., and Osolin.)
Otis, Edward C., Chicago, Ill., assignor, by mesne assignments, to Certain-teed Products Corporation. Shingle stacker. 1,780,716; Nov. 4.
Otto, Charles D., New York, N. Y. Lubricating device. 1,780,629; Nov. 4.
Otto, Cliff R., Edmond, Okla. Apparatus for eliminating ice from windshields. 1,780,502; Nov. 4.
Overman Cushion Tire Company. (See Manly, Charles M., assignor.)
Owens, Joseph W., Schenectady, N. Y., assignor to General Electric Company. Circuit-interrupting device. 1,780,684; Nov. 4.
Oxer, George C., New York, N. Y., assignor to American Brass Company. Electrical conductor. 1,780,533; Nov. 4.
Oxer, George C., New York, N. Y., assignor to American Brass Company. Electrical conductor. 1,780,564; Nov. 4.
P & M Company, The. (See Shepherd, Charles B., assignor.)
P & M Company, The. (See Warr, Harold G., assignor.)
Packard Motor Car Company. (See Moorhouse, Alfred, assignor.)
Packard Motor Car Company. (See Tibbetts, Milton, assignor.)
Packer Manufacturing Co., The. (See Webber, Calvin R., assignor.)
Page, Austin W. (See Leety, H. E., Eckert, and Page.)
Page, Frederick H., assignor to Handley Page Limited, London, England. Controlling aeroplanes. 1,780,838; Nov. 4.
Page, Ralph E., Binghamton, assignor to The Tabulating Machine Company, Endicott, N. Y. Ribbon-supporting mechanism. 1,780,630; Nov. 4.
Page, Walter. (See Brooks, W. H., and Page.)
Papò, Armando, and A. Gentilini, Rome, Italy. Moving-picture machine. 1,780,311; Nov. 4.
Parker, Arnold G., assignor to C. H. Matthiesen, jr., New York, N. Y. Aeroplane. 1,780,565; Nov. 4.
Parker, Joseph N., Bedford, Va. Motor vehicle. 1,780,599; Nov. 4.
Parlini, Alexander C., Woodside, assignor to Gotham Silk Hosiery Company, Inc., New York, N. Y. Fabric-tensioning clamp. 1,780,768; Nov. 4.
Paul, Sydney, assignor to Superior Body Company, Lima, Ohio. Vehicle body construction. 1,780,717; Nov. 4.
Paul, Sydney, assignor to Superior Body Company, Lima, Ohio. Funeral car. 1,780,718; Nov. 4.
Paul, William L., Berkeley, Calif., assignor to Deere & Company, Moline, Ill. Power-transmitting mechanism. 1,780,503; Nov. 4.
Pearson, Robert D. (See Pierson, C. W., Fitzgerald, and Thomae, assignors.)

Pedersen, John D., Springfield, Mass. Coating cartridges. 1,780,566; Nov. 4.
Peirce, John R., assignor to International Business Machines Corporation, New York, N. Y. Printing-tabulating machine. 1,780,685; Nov. 4.
Pentz, Albert D., assignor to Pentz Motor Brake Corporation, New Brighton, N. Y. Fluid-pressure brake. 1,780,656; Nov. 4.
Pentz Motor Brake Corporation. (See Pentz, Albert D., assignor.)
Peoples, Charles B. (See Bradford, J., and Peoples.)
Perlo, Samuel. (See Shapiro, Hyman, assignor.)
Peters, William A., jr., Seattle, Wash., assignor to E. B. Badger & Sons Company, Boston, Mass. Fluid-mixing device. 1,780,438; Nov. 4.
Peterson, Peter A., Chicago, Ill. Combination thermostatic switch and plug connecter. 1,780,631; Nov. 4.
Peterson, Reynold W., Galva, Ill. Acid jar. 1,780,534; Nov. 4.
Pewther, Judson C., Wichita, Kans. Washer. 1,780,839; Nov. 4.
Pfaffendorf, Wilhelm, Hochst-on-the-Main, Germany, assignor by mesne assignments, to General Aniline Works, Inc., New York, N. Y. Degreasing textile materials. 1,780,885; Nov. 4.
Pfaudler Company, The. (See Jacobsen, Jens N., assignor.)
Pfaudler Co., The. (See Nichols, Edgar B., assignor.)
Pharo, Charles E., Cortez, Colo. Automatic train-pipe coupling. 1,780,795; Nov. 4.
Phelan, Louis A. M., Beloit, Wis., assignor by mesne assignments, to Time-O-Stat Controls Company, Elkhart, Ind. Mounting for electrical switches. 1,780,312; Nov. 4.
Phelan, Louis A. M., assignor by mesne assignments, to Time-O-Stat Controls Company, Elkhart, Ind. Fusible swing plug. 1,780,313; Nov. 4.
Phillips, William M., Birmingham, assignor by mesne assignments, to Generals Motors Research Corporation, Detroit, Mich. Chromium plating. 1,780,535; Nov. 4.
Phonodisc Corporation. (See Kende, George, assignor.)
Photostat Corporation. (See Landrock, Paul, assignor.)
Picareff, Anton, Art Studios, Inc. (See Picareff, Anton, assignor.)
Picareff, Anton, assignor to Anton Picareff Art Studios, Inc., New York, N. Y. Coloring agent for fabrics and making same. 1,780,314; Nov. 4.
Pierson, Charles W., C. Y. Fitzgerald, and G. E. Thomae, assignors of one-fourth to E. D. Pearson, Los Angeles, Calif. Banjo mute. 1,780,361; Nov. 4.
Pixley, John H., Harrison, Mich. Grass-pulling attachment for spring-toothed harrows. 1,780,840; Nov. 4.
Plaggmier, Robert C. (See Janda, G. W., and Plaggmier.)
Pneumatic Conveyance & Extraction (1929) Limited. (See Chew, Samuel N., assignor.)
Polson, Alexander. (See Eckersley, James E., assignor.)
Pope, Lyman B., Haverhill, assignor to Pope Machinery Corporation, Haverhill, Mass. Heel-shank-shaping machine. 1,780,841; Nov. 4.
Pope Machinery Corporation. (See Pope, Lyman B., assignor.)
Postindex Company. (See Attwood, Charles E., assignor.)
Poto, William L. (See Keller, W. D., and Poto.)
Powell, Henry K. (See McClelland, R., Powell, and Leopold.)
Pratt, William B., Wellesley, Mass., assignor by mesne assignments, to Dispersions Process, Inc., Dover, Del. Treating rubber and product produced thereby. 1,780,657; Nov. 4.
Precision Metal Workers. (See Grunwald, Albert C., assignor.)
Prescott Iron Works. (See Prescott, Sumner K., assignor.)
Prescott, Sumner K., assignor to Prescott Iron Works, Seattle, Wash. Lumber trimmer. 1,780,362; Nov. 4.
Pribnow, Arthur W. (See Pribnow, J. F., and Mitchell, assignors.)
Pribnow, John F., deceased, San Diego, Calif., and E. F. Mitchell, Spokane, Wash.; said Mitchell assignor to A. W. Pribnow, San Diego, Calif.; M. L. Schultz, administrator. Circular-saw-sharpening machine. 1,780,886; Nov. 4.
Price, Thornton W., New Brunswick, N. J. Motor suspension. 1,780,719; Nov. 4.
Primas, Alexander, assignor of one-fourth to J. G. Miller, Buffalo, N. Y. Ventilating window lock. 1,780,274; Nov. 4.
Proctor, George A., Los Angeles, Calif. Sun-bath apparatus. 1,780,363; Nov. 4.
Proctor, Hailey A., Sylvia, Kans. Badge or similar article. Des. 82,448; Nov. 4.
Proos, Cornelis F., assignor to Naamlooze Venootschap Nederlandsche Kabelfabriek, Delft, Netherlands. Junction box for high-tension electric cables. 1,780,686; Nov. 4.
Prudhomme, Eugène A., Neuilly-sur-Seine, assignor to Societe Internationale des Procedes Prudhomme (S. I. P. P.), Paris, France. Process and apparatus for treating hydrocarbons. 1,780,536; Nov. 4.
Pullwitt, Herman P., Oak Park, assignor to McIntosh Electrical Corporation, Chicago, Ill. Electrotherapeutic machine. 1,780,600; Nov. 4.
Pungs, Wilhelm, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie (Aktiengesellschaft), Frankfort-on-the-Main, Germany. Oxidation of fats, waxes, and resins. 1,780,632; Nov. 4.
Pungs, Wilhelm, Ludwigshafen-on-the-Rhine, and M. Jahrstorfer, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellshaft, Frankfort-on-the-Main, Germany. Production of wax compositions. 1,780,633; Nov. 4.
Pursel, Harold M., assignor to Sharrock and Pursel, Casper, Wyo. Power-operated scraper. 1,780,401; Nov. 4.
Pyrene-Minimax Corporation. (See Burmeister, Hans, assignor.)
Radiant Lighting Fixvture Co. (See Bohl, Hugo, assignor.)
Radio Condenser Company. (See Cramer, Stanley S., assignor.)
Radio Corporation of America. (See White, Sidney Y., assignor.)
Randerson, John E. H., Albany, N. Y. Package of toilet paper. 1,780,275; Nov. 4.
Ranney, Willet B., assignor to Wm. Wrigley, Jr., Company, Chicago, Ill. Measuring device. 1,780,601; Nov. 4.
Rasmussen, Charles, assignor of one-half to R. T. Ingalls, Racine, Wis. Metal-sawing machine. 1,780,439; Nov. 4.
Read, David Y., Washington, D. C., assignor to L C Smith & Corona Typewriters Inc., Syracuse, N. Y. Typewriting machine. 1,780,537; Nov. 4.
Recko, Joseph A., Bridgeport, Conn. Pipe fitting. 1,780,402; Nov. 4.
Redfield, Cleveland. (See Blackman, Birt G., assignor.)
Redfield, Snowden B., and J. Naab, Easton, Pa., assignors to Ingersoll-Rand Company, Jersey City, N. J. Accumulator timing element for pressure-fluid-supply valves. 1,780,538; Nov. 4.
Redington, John C., Geneva, Ill., assignor by mesne assignments to St. Regis Paper Company, New York, N. Y. Forming valve bags. 1,780,720; Nov. 4.
Reiss Premier Pipe Co. (See Hirsch, Rudolph, assignor.)
Reliance Company, The. (See Wilms, Gustav O., assignor.)
Remington Rand Incorporated. (See Lasker, William W., assignor.)
Remington Rand Incorporated. (See Lebeis, Martin, assignor.)
Replogle, John R., assignor to Kelvinator Corporation, Detroit, Mich. Valve. 1,780,242; Nov. 4.
Replogle, John R., assignor to Kelvinator Corporation, Detroit, Mich. Mechanically-refrigerated cabinet. 1,780,243; Nov. 4.
Reserve Holding Company. (See Crocker, Thomas F., assignor.)
Rex Research Corporation. (See Miller, James L., assignor.)
Reynolds, Frederick W., Grantwood, N. J., assignor to American Telephone and Telegraph Company. Electro-optical transmission. 1,780,364; Nov. 4.
Richards, Frank W., Nampa, Idaho. Door holder. 1,780,403; Nov. 4.
Richardson, Charles M., and Y. H. Bodle, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Apparatus for soling and pressing footwear. 1,780,769; Nov. 4.
Richardson, Led L., assignor to The Cleveland Rock Drill Company, Cleveland, Ohio. Hole-cleaning valve for rock drills. 1,780,440; Nov. 4.
Richter, George A., assignor to Brown Company, Berlin, N. H. Treating fiber of nonconiferous origin. 1,780,539; Nov. 4.
Richter, George A., assignor to Brown Company, Berlin, N. H. Production of sulphite pulp. 1,780,842; Nov. 4.
Rieber, Frank, San Francisco, Calif. Method and apparatus for recording explosive shocks. 1,780,567; Nov. 4.
Riley, Robert S., and J. H. McElroy, assignors to Riley Stoker Corporation, Worcester, Mass. Underfeed stoker. 1,780,796; Nov. 4.
Riley Stoker Corporation. (See Riley, R. S., and McElroy, assignors.)
Risler Corporation of America. (See Risler, Jacques, assignor.)
Risler, Jacques, Paris, France, assignor to Risler Corporation of America, Kansas City, Mo. Rectifying tube. 1,780,504; Nov. 4.
Ritter, Paul E., Roselle, N. J., assignor to American Telephone and Telegraph Company. Telephone and telegraph circuit. 1,780,244; Nov. 4.
Roark, Robert H., Waco, assignor by mesne assignments to The General Ice Scoring Machine Company, Dallas, Tex. Scoring ice blocks by fluid pressure. 1,780,441; Nov. 4.
Roberts, Leland C., Towaco, N. J., assignor to American Telephone and Telegraph Company. Telephone and telegraph system. 1,780,245; Nov. 4.
Roberts, Ralph S., and J. Votypka, assignors to Lebaron Detroit Company, Detroit, Mich. Convertible vehicle body construction. 1,780,797; Nov. 4.
Robertson, John H., London, England. Governor mechanism. 1,780,540; Nov. 4.
Robischon, Herbert. (See Robischon, Michael F., assignor.)
Robischon, Michael F., assignor of one-half to H. Robischon, Utica, N. Y. Step-in combination garment. 1,780,798; Nov. 4.
Roe, Ernest S., assignor to The King Manufacturing Company, Plymouth, Mich. Spring air gun. 1,780,541; Nov. 4.
Roessler & Hasslacher Chemical Company, The. (See Lehrecke, Hans, assignor.)

Roessler & Hasslacher Chemical Company, The. (See Whitby, George S., assignor.)
Rogers, Walter G., Leavenworth, Kans. Hillside tractor. 1,780,799; Nov. 4.
Rose, George H. (See Coons, P. T., and Rose.)
Rose, William D., Portland, Oreg. Magazine cover. Des. 82,449; Nov. 4.
Rosenthal, Samuel J., Brooklyn, N. Y. Tassel-making art. 1,780,602; Nov. 4.
Rotary Utility Corporation. (See McGerry, J. J., and Whiting, assignors.)
Rowland, Davidge H., assignor to Locke Insulator Corporation, Baltimore, Md. Glass insulator and making same. 1,780,246; Nov. 4.
Rubber Service Laboratories Company, The. (See Scott, Winfield, assignor.)
Ruffing, John, sr., Nokomis, Ill. Oil-gauge-rod wiper. 1,780,505; Nov. 4.
Ruilman, Elmer E. (See Andres, Lloyd J., assignor.)
Rutquist, Axel, Portland, Oreg. Combination tool. 1,780,506; Nov. 4.
Sabin, Herbert B. (See Fisher, Albert H., assignor.)
Sagendorph, William K., executor. (See Hopkins, George F.)
Sager, Abraham, Chicago, Ill. Ring. Des. 82,450; Nov. 4.
St. Regis Paper Company. (See Redington, John C., assignor.)
Salustri, Emilio and G., Detroit, Mich. Portable time-stamping mechanism. 1,780,770; Nov. 4.
Salustri, Giacomo. (See Salustri, Emilio and G.)
Scarpa, Nunzio, New York, N. Y. Safety device for elevators. 1,780,568; Nov. 4.
Scarpin, Fiorenzo. (See Mansolini, E., Capobianco, and Scarponi.)
Schaefer, Bernard, Cincinnati, Ohio. Table lighting fixture. Des. 82,451; Nov. 4.
Schaefer, John H., Grosse Pointe, Mich. Clock case. Des. 82,452; Nov. 4.
Schafer, Robert A. (See Galloway, R. M., and Schafer.)
Schaffer, Walter, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Coupling arrangement for frequency changers. 1,780,542; Nov. 4.
Schatz, Desiderius, Zittau, Germany. Device for mechanically determining and indicating the degree of usage of a mechanism. 1,780,603; Nov. 4.
Scheidemandel, Hans, Munich, Germany. Device for the manufacture of doweled wooden boards. 1,780,721; Nov. 4.
Scheiwer, Albert T., Erie, Pa. Curved-blade barber clippers. 1,780,276; Nov. 4.
Schimpf, Robert. (See Brückel, W., and Schimpf.)
Schmidt, Otto C., Sharpsburg, Pa. Grease. 1,780,315; Nov. 4.
Schmieding, Warren H. F., Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation. Refrigerating apparatus. 1,780,442; Nov. 4.
Schmieske, Carl. (See Bauer, G., and Schmieske.)
Schmitt, George P., Oakland, Calif. Paper clip. 1,780,893; Nov. 4.
Schneider, Edwin J., Jamaica, and P. Wiggins, Maspeth, assignors to Eastern Tube and Tool Co., Inc., Brooklyn, N. Y. Electric conductor. 1,780,722; Nov. 4.
Schoemaker, Richard L. A., Delft, Netherlands. Telegraphing in Morse code and apparatus therefor. 1,780,507; Nov. 4.
Schooling, Luther L., assignor to Electric Wheel Company, Quincy, Ill. Wheel. 1,780,404; Nov. 4.
Schuette, Johann, Lichterfelde-Ost, near Berlin, Germany. Framework structure for the steering gear of airships. 1,780,569; Nov. 4.
Schul, Max, Brussels, Belgium. Propeller for vessels and aircraft. 1,780,843; Nov. 4.
Schulse, H. E., Inc. (See Schulse, Herman E., assignor.)
Schulse, Herman E., New York, N. Y., assignor to H. E. Schulse Inc. Dispensing container. 1,780,508; Nov. 4.
Schultz, M. L., administrator. (See Pribnow, J. F., and Mitchell.)
Schulz, Hans F., Bomlitz, near Walsrode, Germany. Applying nitrocellulose varnishes. 1,780,844; Nov. 4.
Schumann, Otto W., Magdeburg, Germany. Rotary internal-combustion engine. 1,780,443; Nov. 4.
Schütz, Ludwig. (See Berendes, R., and Schütz.)
Schwartz, Gerhardt F., St. Louis, Mo. Hot-water tank. 1,780,316; Nov. 4.
Schwarzmann, Wolfgang E., Longmeadow, and C. Strniste, Springfield, Mass., assignors, by mesne assignments, to The Electric Auto-Lite Company. Governor for battery-ignition systems. 1,780,771; Nov. 4.
Scott-Paine, Hubert, Hythe, Southampton, England. Steering water craft. 1,780,767; Nov. 4.
Scott, Winfield, Nitro, W. Va., assignor to The Rubber Service Laboratories Company, Akron, Ohio. Vulcanization of rubber. 1,780,604; Nov. 4.
Scully, John T., New York, N. Y. Combined safety-razor handle, blade support, and guard. Des. 82,453; Nov. 4.
Sears, Roebuck and Co. (See Fortier, Leon D., assignor.)
Seeley, Fay L., and C. L. Snyder, assignors to The Evans Auto Loading Co. Inc., Detroit, Mich. Shipping device. 1,780,277; Nov. 4.
Selberling Rubber Company. (See Messer, Vladimir V., assignor.)
Shapiro, Hyman, assignor to S. Perlo, Brooklyn, N. Y. Illuminated base for statuary and the like. Des. 82,454; Nov. 4.
Sharrock and Pursel. (See Pursel, Harold M., assignor.)
Sharrow, Percy A., East Windsor, Ontario, Canada. Pencil. 1,780,405; Nov. 4.
Shaver, Walter E., Schenectady, N. Y. Chromatic playing attachment for harmonicas. 1,780,368; Nov. 4.
Shaw-Perkins Manufacturing Company. (See Davis, Archibald H., jr., assignor.)
Shaw-Perkins Manufacturing Company. (See Sonneborn, Charles, assignor.)
Shaw, William E. V., Minneapolis, Minn. Bumper rack. 1,780,209; Nov. 4.
Shekter, Adela F., Jamaica, N. Y. Enema pad. 1,780,800; Nov. 4.
Shepherd, Charles B., Springfield, Mass., assignor, by mesne assignments, to The P & M Company, Chicago, Ill. Rail anchor. 1,780,444; Nov. 4.
Sherman, Thomas L., Melbourne, Australia, assignor to Michell-Crankless Engines Corporation, New York, N. Y. Crankless engine. 1,780,365; Nov. 4.
Sherwig, John M., Sharon, Pa. Dirigible headlight. 1,780,445; Nov. 4.
Sherwood, Walter N., North Hoosick, N. Y. Paper-pulp beater. 1,780,845; Nov. 4.
Shimer, Elmer S. and H. L., assignors to Samuel J. Shimer & Sons, Milton, Pa. Cutter heads. 1,780,846; Nov. 4.
Shimer, Harold L. (See Shimer, Elmer S. and H. L.)
Shimer, Samuel J., & Sons. (See Shimer, Elmer S. and H. L., assignors.)
Shinn, Roy J. (See Miller, W. E., Shinn, and Grove.)
Shlenker, Leon M., assignor to International Harvest Hat Co., St. Louis, Mo. Insect-guard attachment for hats. 1,780,801; Nov. 4.
Shoe Form Co., The. (See De Witt, William J., assignor.)
Shoemaker, Joseph A., Bennington, Vt. Drying device. 1,780,446; Nov. 4.
Short, Charles R., Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich. Control for oil filter. 1,780,723; Nov. 4.
Short, Charles R., assignor to General Motors Research Corporation, Detroit, Mich. Rubber engine support. 1,780,724; Nov. 4.
Showers, Charles M., Madison, Wis. Wall form. 1,780,366; Nov. 4.
Shows, John E., Harrisburg, and W. T. Dunn, Houston, Tex. Rotary core drill. 1,780,447; Nov. 4.
Shultz, Chauncey F., St. Louis, Mo. Brush-making machine. 1,780,278; Nov. 4.
Siebenlist, Anthony G., assignor, by mesne assignments, to Milcor Steel Company, Milwaukee, Wis. Rib clip. 1,780,406; Nov. 4.
Siebenmorgen, Louie G., Hiawatha, Kans. Stanchion latch and operating means therefor. 1,780,367; Nov. 4.
Siedler, Philipp, and A. Moeller, Frankfort-on-the-Main-Griesheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Liquid supersaturated solution of thiocarbanilide. 1,780,634; Nov. 4.
Simpson, Alfred M., Manila, P. I. Rotary cutter for sugar cane and the like. 1,780,247; Nov. 4.
Singer Manufacturing Company, The. (See Myers, Walter, assignor.)
Singhurst, James T. (See McAdams, S. E. Skaggs, and Singhurst.)
Skaggs, Howard P. (See McAdams, S. E. Skaggs, and Singhurst.)
Skinner, William T., Leonia, N. J. Flash device. 1,780,509; Nov. 4.
Slate Aircraft Corporation. (See Slate, Thomas B., assignor.)
Slate, Thomas B., Glendale, Calif., assignor to Slate Aircraft Corporation. Metallic airship of the rigid type. 1,780,448; Nov. 4.
Smith, A. O., Corporation. (See Heineman, Warren F., assignor.)
Smith, Alfred A., New York, N. Y. Electrical fixture. 1,780,847; Nov. 4.
Smith, Benjamin, Chelsea, Mass. Edible container for ice cream. Des. 82,455; Nov. 4.
Smith, Harry C., assignor to The Autodrink Corporation, New York, N. Y. Beverage dispensing and display device. 1,780,687; Nov. 4.
Smith, L. C. & Corona Typewriters Inc. (See Read, David Y., assignor.)
Smith, Walter E., Warwick Downs, assignor to C. G. King & Co., Inc., Providence, R. I. Shoe ornament. Des. 82,456; Nov. 4.
Smith, Walter E., Daytona Beach, Fla. Insect repeller. 1,780,407; Nov. 4.
Smith, Walter E., Daytona Beach, Fla. Insect repeller. 1,780,408; Nov. 4.
Smith, William, Detroit, Mich. Plant-pot support. 1,780,279; Nov. 4.
Smith, William A., jr. (See Smith, William A., sr., and W. A., jr.)
Smith, William A., sr., Easton, Pa., and W. A. Smith, jr., Phillipsburg, assignors to Ingersoll-Rand Company, Jersey City, N. J. Valve mechanism for rock drills. 1,780,725; Nov. 4.
Smith, Woodruff R. (See Hammer, F. L., Smith, and Esborn.)

Snell, Foster D., Brooklyn, N. Y. Hair waving. 1,780,449; Nov. 4.
Snow, Chester A., jr., Washington, D. C. Determining drift of aircraft. 1,780,369; Nov. 4.
Snyder, Clifford L. (See Seeley, F. L., and Snyder.)
Snyder, Clifford L., Detroit, Mich., assignor to The Evans Auto Loading Co. Inc. Shipping device. 1,780,317; Nov. 4.
Snyder, Clifford L., Detroit, Mich., assignor to The Evans Auto Loading Co. Inc. Shipping device. 1,780,318; Nov. 4.
Société Industrielle de Matériel d'Entreprise et de Construction. (See Dubois, Charles, assignor.)
Societe Internationale Des Procedes Prudhomme (S. I. P. P.). (See Prudhomme, Eugène A., assignor.)
Socony Burner Corporation. (See Metcalfe, Robert F., assignor.)
Sonneborn, Charles, West Pittsburg, assignor to Shaw-Perkins Manufacturing Company, Pittsburgh, Pa. Deformed-tube radiator. 1,780,319; Nov. 4.
Sparkletts Bottled Water Corporation. (See Washburne, Arthur L., assignor.)
Spaulding, Clyde V. (See Steinmetz, J. A., and Spaulding.)
Speight, Eric A., Blackley, Manchester, assignor to Imperial Chemical Industries Limited, London, England. Dyeing of cellulose esters and ethers. 1,780,320; Nov. 4.
Spencer, Owen H., Indianapolis, Ind. Coke means for two-cycle engines. 1,780,635; Nov. 4.
Sperry, Arthur G., Hollis, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y. Safety device for typographical machines. 1,780,848; Nov. 4.
Spillman, Porter R., South Bend, Ind. Siding gauge and scribe. 1,780,849; Nov. 4.
Spinney, Carl E., West Lafayette, Ind. Automatic tank loader for fuel trucks. 1,780,605; Nov. 4.
Spray, Lester E., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Master-control apparatus. 1,780,658; Nov. 4.
Spreen, Charles C., Detroit, Mich. Journal-bearing seal. 1,780,248; Nov. 4.
Spreen, Charles C., Detroit, Mich. Journal-bearing seal. 1,780,249; Nov. 4.
Staf, Axel H., assignor to The Alvin Corporation, Providence, R. I. Spoon or similar article. Des. 82,457; Nov. 4.
Staley, Alonzo D., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Laundry apparatus. 1,780,210; Nov. 4.
Staminart Corporation, The. (See Stephens, Noble E., assignor.)
Standard Computing Scale Company, The. (See Jaenichen, Louis, assignor.)
Standard Mirror Company. (See La Hodny, William, assignor.)
Standard Oil Company of California. (See Danner, P. S., and Muth, assignors.)
Standard Steel and Bearings Incorporated. (See Hodge, George O., assignor.)
Standard Steel Car Corporation. (See Christianson, Andrew, assignor.)
Standard Trump Bros. Machine Company. (See Lansdown, Norman D., assignor.)
Stanitz, Jacques, assignor to The Youngstown Pressed Steel Company, Warren, Ohio. Casing for an oil pump. Des. 82,458; Nov. 4.
Stanley Works, The. (See Crowe, John M., assignor.)
Steel Heddle Manufacturing Company. (See Kaufmann, John J., assignor.)
Steinmetz, John A., and C. V. Spaulding, Van Vert, Ohio. Rake-cleaning attachment. 1,780,688; Nov. 4.
Stephens, Noble E., Woodside, L. I., assignor to The Staminart Corporation, New York, N. Y. Article of furniture. 1,780,570; Nov. 4.
Stern-Gesellschaft fur Moderne Grundbautechnik m. b. H. (See Zeissl, Ignaz, assignor.)
Stern, Louis, Company. (See Kraemer, August F., assignor.)
Stevens, John A., Lowell, Mass., assignor to The Upson Company, Lockport, N. Y. Heat-transmitting platen. 1,780,280; Nov. 4.
Stewart-Warner Corporation. (See Andrews, J. Lewis, assignor.)
Stewart-Warner Corporation. (See Olsen, John K., assignor.)
Stiegelmayer, Karl, New York, N. Y. Jazz organ. 1,780,548; Nov. 4.
Stine, Charles M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Substituted guanidine-aldehyde condensation product. 1,780,636; Nov. 4.
Stockton, Walter T. (See Kinney, F. C., and Stockton.)
Stoltz, Carl F., Delhi, Ohio, and G. W. Ferling, Indianapolis, Ind., assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for testing automatic train-control equipment. 1,780,726; Nov. 4.
Storey, Willard M., Winston-Salem, N. C. Fastener for packing cases. 1,780,544; Nov. 4.
Strniste, Charles. (See Schwarzmann, W. E., and Strniste.)
Strong, Charles W., Portland, Oreg. Golf-ball washer. 1,780,850; Nov. 4.
Strong, Leon B., Washington, D. C., assignor of twenty per cent to F. G. Campbell. Method of and apparatus for liquefying gases. 1,780,250; Nov. 4.
Strongson, Herman L., New York, N. Y. Plug cap. 1,780,851; Nov. 4.
Sullivan, Leo V., Warren, Ohio. Glazing clip. 1,780,852; Nov. 4.
Sulzer Freres Societe Anonyme. (See Hefti, Wilhelm, assignor.)
Sundstrand Machine Tool Co. (See Svenson, Ernest J., assignor.)
Sun Rise Lamp Mfg. Co. (See Abel, Frank J., assignor.)
Superior Body Company. (See Paul, Sydney, assignor.)
Sutcliffe, Fred, jr., assignor to Mock, Judson, Voehringer Company, Inc., Philadelphia, Pa. Welt needle for knitting machines. 1,780,689; Nov. 4.
Sutcliffe, Stanley H., Radlett, England. Golf bag. 1,780,802; Nov. 4.
Svenson, Ernest J., assignor to Sundstrand Machine Tool Co., Rockford, Ill. Tool support for lathes. 1,780,606; Nov. 4.
Svenson, Ernest J., assignor to Sundstrand Machine Tool C., Rockford, Ill. Tool support for lathes. 1,780,607; Nov. 4.
Swanson, Swan A., New York, N. Y. Thread-rolling machine. 1,780,608; Nov. 4.
Syester, Vernis O., Linton, Ind. Switch for radioreceivers. 1,780,690; Nov. 4.
Tabulating Machine Company, The. (See Ewald, Bernhard K. F., assignor.)
Tabulating Machine Company, The. (See Page, Ralph E., assignor.)
Tabulating Machine Company, The. (See Weinlich, Hermann A., assignor.)
Teale, Wilbur, and H. F. McLauthlin, Seattle, assignors to Hydro-Oil Fire Corporation, Tacoma, Wash. Hydrooil burner. 1,780,571; Nov. 4.
Tenney, Perry L., Muncie, Ind. Wheel assembly. 1,780,370; Nov. 4.
Tenney, Perry L., Muncie, Ind., assignor to General Motors Corporation, Detroit, Mich. Rubber coupler. 1,780,727; Nov. 4.
Teplow, Solomon, Los Angeles, Calif. Telephone booth. 1,780,251; Nov. 4.
Terry, E. W., et al. (See White, James F., assignor.)
Terry, Earl W., et al. (See White, James F., assignor.)
Tessier, Joseph. (See Adam, Joseph F., assignor.)
Texas Company, The. (See Watson, Claude W., assignor.)
Thauss, Alfred, Cologne-Deutz, and G. Mauthe, Cologne-Holweide, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Water-soluble product derived from the fattery acids occurring in wool fat and preparing the same. 1,780,252; Nov. 4.
Thomae, George E. (See Pierson, C. W., Fitzgerald, and Thomae.)
Thomas, Adolph A., New York, N. Y. Electromagnetic transmitter. 1,780,409; Nov. 4.
Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Triple-valve device. 1,780,321; Nov. 4.
Thornburgh, Mabel H., Denver, Colo. Marcel cap. 1,780,887; Nov. 4.
Thurm, Léon, Paris, France. Optical device for radio cinematographic transmitters and receivers. 1,780,572; Nov. 4.
Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,780,281; Nov. 4.
Time-O-Stat Controls Company. (See Koch, L. E. and Dever, assignors.)
Time-O-Stat Controls Company. (See Phelan, Louis A. M., assignor.)
Timken-Detroit Axle Company, The. (See Morgan, Mathew B., assignor.)
Toledo Scale Company. (See Ulrich, Edward F., assignor.)
Tomita, Urasaburo, Astoria, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 82,459; Nov. 4.
Tomita, Urasaburo, Astoria, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 82,460; Nov. 4.
Tomita, Urasaburo, Astoria, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 82,461; Nov. 4.
Törnebohm, Hilding V., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Radius-template-grinding machine. 1,780,211; Nov. 4.
Traylor Engineering & Manufacturing Company. (See Bernhard, Richard, assignor.)
Trevett, Earl H. (See Draper, C. H., and Trevett.)
Tsuji, Shingo, Tokyo, Japan. Apparatus for enabling hatch loading in the rain for ships or the like. 1,780,322; Nov. 4.
Tucker, Max D., Detroit, Mich., assignor to The Evans Auto Loading Co. Inc. Shipping of automobiles. 1,780,282; Nov. 4.
Tupta, Frank, Cleveland, Ohio. Aeroplane. 1,780,410; Nov. 4.
Typograph-Gesellschaft m. b. H. (See Dorneth, Julius, assignor.)
Udy, Marvin J., Niagara Falls, N. Y. Producing two-toned finish on metal surfaces. 1,780,212; Nov. 4.
Uebelhoer, Marvin. (See Uebelhoer, Walter, assignor.)
Uebelhoer, Walter, assignor of one-half to M. Uebelhoer, Buffalo, N. Y. Wheel puller. 1,780,888; Nov. 4.
Ulrich, Edward F., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,780,411; Nov. 4.

Union Railway Equipment Company. (See O'Connor, Arthur F., assignor.)
Union Switch & Signal Company, The. (See Baughman, George W., assignor.)
Union Switch & Signal Company, The. (See Spray, Lester E., assignor.)
Union Switch & Signal Company, The. (See Stoltz, C. F., and Ferling, assignors.)
United Shoe Machinery Corporation. (See Cosgrove, John W., assignor.)
United Shoe Machinery Corporation. (See Kinney, Fay D., assignor.)
United Shoe Machinery Corporation. (See Leveque, Bernard T., assignor.)
Uppercu-Burnelli Corporation, The. (See Burnelli, Vincent J., assignor.)
Upson Company, The. (See Stevens, John A., assignor.)
Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coking retort oven. 1,780,803; Nov. 4.
Van Brunt, John, Flushing, assignor to International Combustion Engineering Corporation, New York, N. Y. Apparatus for generating steam by the burning of fuel in suspension. 1,780,283; Nov. 4.
Van Brunt, John, Flushing, assignor to International Combustion Engineering Corporation, New York, N. Y. Finely-divided-fuel-burning boiler furnace. 1,780,284; Nov. 4.
Van Brunt, John, Flushing, assignor to International Combustion Engineering Corporation, New York, N. Y. Boiler. 1,780,285; Nov. 4.
Van Ranst, Cornelius W., Auburn, Ind., assignor, by mesne assignments, to Manning & Co., Chicago, Ill. Radiator shell. Des. 82,462; Nov. 4.
Velton, Stephen J., Houston, Tex. Aircraft motor. 1,780,450; Nov. 4.
Vereinigte Schuhfabriken Berneis-Wessels A. G. (See Klauer, Philipp, assignor.)
Vertucci, Vincent M., Jersey City, N. J. Preparing chromium-plated ferrous articles. 1,780,213; Nov. 4.
Volz, Charles A., Birmingham, Mich. Level device. 1,780,253; Nov. 4.
Von Dorn, Theodore F. (See Norwood, Harry G., assignor.)
Von Frankenberg, Arthur, New York, N. Y. Ash tray or similar article. Des. 82,463; Nov. 4.
Vosika, Ludvik. (See Vosika, Robert and L.)
Vosika, Robert and L., Wilber, Nebr. Bottle-cleaning apparatus. 1,780,451; Nov. 4.
Votypka, John. (See Roberts, R. S., and Votypka.)
Wadsten, Sten, Bloomfield, N. J., assignor to Westinghouse Lamp Company. Machine for making spaced coiled filaments. 1,780,609; Nov. 4.
Wager, Robert H., Jersey City, N. J. Lather-forming device. 1,780,573; Nov. 4.
Wagner, Allen P., Jonestown, Pa. Table. 1,780,254; Nov. 4.
Wagner, Carl, administrator. (See Elsner, Hermann.)
Wagner, Frederick H., assignor to The Bartlett Hayward Company, Baltimore, Md. Liquid and gas contact apparatus. 1,780,255; Nov. 4.
Walker Dishwasher Corporation. (See Walker, Forrest A., assignor.)
Walker, Forrest A., assignor to Walker Dishwasher Corporation, Syracuse, N. Y. Dishwasher. 1,780,452; Nov. 4.
Wall, P., Manufacturing Supply Company. (See Leety, H. E., Eckert, and Page, assignors.)
Wallace, John F., Shaker Heights, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Shock-absorbing strut. 1,780,659; Nov. 4.
Wallace, John F., Shaker Heights, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Shock-absorbing strut for aircraft. 1,780,660; Nov. 4.
Walsh, Vincent G., London, England. Emulsifying and analogous apparatus. 1,780,353; Nov. 4.
Walss, Walther, Meggen, near Lucerne, Switzerland. Social game. 1,780,256; Nov. 4.
Ward, Charles E., Charleston, W. Va. Seal for stern bearings for propeller shafts. 1,780,804; Nov. 4.
Waring, William G., Webb City, Mo. Utilization of galvanizer's waste. 1,780,323; Nov. 4.
Warner, Harry B., Hagerstown, Md. Radio cabinet. Des. 82,464; Nov. 4.
Warr, Harold G., Park Ridge, assignor to The P. & M. Company, Chicago, Ill. Rail anchor. 1,780,412; Nov. 4.
Warren Telechron Company. (See Goff, Errol W., assignor.)
Warren, Thomas R., Norton-on-Tees, assignor to Imperial Chemical Industries Limited, London, England. Automatic control of turbo-alternators. 1,780,691; Nov. 4.
Warwick China Company. (See Kane, Bernard N., assignor.)
Washburne, Arthur L., assignor to Sparklets Bottled Water Corporation, Los Angeles, Calif. Bottle-cleansing machine. 1,780,772; Nov. 4.
Watson, Claude W., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Treating hydrocarbon oils. 1,780,286; Nov. 4.
Watts, Cleal T., and F. N. Bay, Albia, Iowa. Internal combustion engine. 1,780,854; Nov. 4.
Wearham, Gordon A., London, England. Display apparatus and operating the same. 1,780,773; Nov. 4.
Weaver, Cora P., Alhambra, Calif. Automobile curtain. 1,780,257; Nov. 4.
Webb, Jervis B. (See Da Costa, James S., assignor.)
Webber, Calvin R., assignor to The Packer Manufacturing Co., Inc., New York, N. Y. Bottle structure. 1,780,728; Nov. 4.
Weber Electric Company. (See Weber, John, assignor.)
Weber Engine Company. (See Gold, Samuel B. and B. E., assignor.)
Weber, John, assignor to Weber Electric Company, Schenectady, N. Y. Electric-lamp socket. Des. 82,465; Nov. 4.
Weber, John, assignor to Weber Electric Company, Schenectady, N. Y. Electric-lamp socket. Des. Des. 82,466; Nov. 4.
Weber, John, assignor to Weber Electric Company, Schenectady, N. Y. Electric-lamp socket. Des. 82,467; Nov. 4.
Webster, William A., Galesburg, assignor of one-third to L. J. Castle, Abingdon, Ill. Steam engine. 1,780,324; Nov. 4.
Wedberg, Axel G. W., Chicago, Ill. Mold for concrete buildings. 1,780,661; Nov. 4.
Weinberg, Fred, White Plains, N. Y. Combined cigarette extinguisher and residue receptacle. 1,780,258; Nov. 4.
Weinlich, Hermann A., Berlin, Germany, assignor to The Tabulating Machine Company, Endicott, N. Y. Typewriter punch with column cut-out. 1,780,610; Nov. 4.
Weisberg, Sidney M., Brooklyn, N. Y. Tire-inflation device. Des. 82,468; Nov. 4.
Weiss, Joseph, Chicago, Ill. Door check. 1,780,662; Nov. 4.
Wenalan, Hannah, Highland Park, Ill. Chopper. 1,780,453; Nov. 4.
Wery, Jules, deceased, Deerfield; M. Wery, administratrix, assignor to S. G. Gorsline, River Forest, Ill. Canclosing machine. 1,780,729; Nov. 4.
Wery, May, administratrix. (See Wery, Jules.)
Westinghouse Air Brake Company, The. (See Thomas, Thomas H., assignor.)
Westinghouse Lamp Company. (See Fleischmann, Christian, assignor.)
Westinghouse Lamp Company. (See Wadsten, Sten, assignor.)
Wheatley Patents Ltd. (See Wheatley, Walter H., assignor.)
Wheatley, Walter H., assignor to Wheatley Patents Ltd., London, England. Making helical cutters. 1,780,805; Nov. 4.
Wheeler, Clem E., Oak Park, Ill. Office desk. 1,780,287; Nov. 4.
Whitby, George S., Montreal, Quebec, Canada, assignor by mesne assignments to The Roessler & Hasslacher Chemical Company, New York, N. Y. Substituted thiuram polysulphide and process of making. 1,780,545; Nov. 4.
White, Ezekiel F., Hartford, assignor of G. V. Lassen, West Hartford, Conn. Separator. 1,780,774; Nov. 4.
White, Frank. (See Bull, F. and White.)
White, James F., assignor of ten per cent to E. W. Terry, Richmond, ten one-hundredths to E. W. Terry, Albany, and sixty one-hundredths to F. Candle, Richmond, Calif. Internal-combustion engine. 1,780,454; Nov. 4.
White, Sidney Y., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Electrical amplifier circuits. 1,780,611; Nov. 4.
Whiting, Charles H. (See McGerry, J. J., and Whiting.)
Wiggins, Peter. (See Schneider, E. J., and Wiggins.)
Wiley, Samuel, Metuchen, N. J. Flare. 1,780,214; Nov. 4.
Willamette-Ersted Company. (See Gorbutt, Sidney B., assignor.)
Williams, Alfred P., Madisonville, Ky. Toy electrically-operated shovel. 1,780,806; Nov. 4.
Williams, Clinton R., New York, N. Y. Fountain-pen housing. 1,780,546; Nov. 4.
Williams, Ernest, Stone, England. Trepan tool with radial cage, cutter, and guide. 1,780,325; Nov. 4.
Williams, Harry, Vancouver, British Columbia, Canada. Cutlery-cleaning device. 1,780,637; Nov. 4.
Williams, Ira. (See Burnett, W. B., and Williams.)
Williams, Ira, and W. B Burnett, Pittsburgh, Pa., assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Aldehyde amine condensation product. 1,780,326; Nov. 4.
Williams, Leroy E., assignor to Highway Trailer Company, Edgerton, Wis. Dump-body vehicle. 1,780,775; Nov. 4.
Williams, Leroy E., assignor to Highway Trailer Company, Edgerton, Wis. Trailer-frame structure. 1,780,776; Nov. 4.
Williams, Lewis S., Romsey, England. Boot and shoe sock. 1,780,574; Nov. 4.
Williams, Paul F., assignor to G. & W. Electric Specialty Co., Chicago, Ill. Combination pot head and series cut-out. 1,780,413; Nov. 4.
Williams, William R., Salt Lake City, Utah. Toy. 1,780,855; Nov. 4.
Williamsport Mirror & Glass Co. (See Maculen, Adolph, assignor.)
Wilms, Gustav O., Milwaukee, Wis., assignor, by mesne assignments, to The Reliance Company, Wilmington, Del. Electrical switch. 1,780,216; Nov. 4.

Wilson, Alfred R., assignor, by mesne assignments, to Hutchins Car Roofing Company, Detroit, Mich. Hoist anchorage for car roofs. 1,780,730; Nov. 4.
Wilson, Moses W. H., East Lansing, assignor to Motor Wheel Corporation, Lansing, Mich. Wire-wheel-assembly device. 1,780,215; Nov. 4.
Wiltse Appliance Co. (See Wiltse, Sumner, assignor.)
Wiltse, Sumner, Detroit, Mich., assignor to Wiltse Appliance Co. Pump mechanism. 1,780,217; Nov. 4.
Winslow, Charles A., Vallejo, and E. J. Hall, Berkeley, Calif. Oil filter. 1,780,663; Nov. 4.
Winthrop Chemical Company. (See Berendes, R., and Schütz, assignors.)
Wirtel, Arthur F. (See De Groote, M., Monson, and Wirtel.)
Wise, Anthony G., Los Angeles, assignor to Metro-Goldwyn-Mayer Corporation, Culver City, Calif. Collapsible hub. 1,780,510; Nov. 4.
With, Bror, Skoyen, near Oslo, Norway. Ski tie. 1,780,511; Nov. 4.
Wolf, Robert B., New York, N. Y. Production of paper pulp. 1,780,638; Nov. 4.
Wolff, Oscar M., Chicago, Ill. Show case. 1,780,512; Nov. 4.
Woodman, Commodore B., assignor of one-half to O. Hoffman, Oakland, Calif. Bottle-capping machine. 1,780,327; Nov. 4.
Worthington Pump and Machinery Corporation. (See Grace, John F., assignor.)
Worthington Pump and Machinery Corporation. (See Lawaczeck, Franz, assignor.)
Wray, Thomas A., University City, Mo. Metal-lath support. 1,780,731; Nov. 4.
Wright, Fenton, Kansas City, Mo. Shirt fastener. 1,780,692; Nov. 4.
Wrigley, Wm., Jr., Company. (See Ranney, Willet B., assignor.)
Yawman & Erbe Manufacturing Company, The. (See Furlong, Roland A., assignor.)
Yazel, Jacob B., Marion, Ohio. Exhaust connection. 1,780,693; Nov. 4.
Yerk, Henry H., and W. J. Baumberger, Davenport, assignors to Micro Machine Company, Bettendorf, Iowa. Grinding machine. 1,780,288; Nov. 4.
Young, Adam P. (See Malone, John P., assignor.)
Young, Frank W., Verona, N. J. Method of and apparatus for applying cake reenforcements. 1,780,732; Nov. 4.
Young, Frank W., Verona, N. J. Filtering device. 1,780,777; Nov. 4.
Youngstown Pressed Steel Company, The. (See Stanitz, Jacques, assignor.)
Zeissl, Ignaz, assignor to Stern-Gesellschaft fur Moderne Grundbautechnik m. b. H., Vienna, Austria. Pile. 1,780,807; Nov. 4.
Zepp, Frank W., San Francisco, Calif. Terminal connecter for electrical conductors. 1,780,289; Nov. 4.
Ziler, Corban H. (See Cordonnier, H. J., and Ziler.)

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 4TH DAY OF NOVEMBER, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Accumulator timing element for pressure-fluid-supply valves. S. B. Redfield and J. Naab. 1,780,538; Nov. 4.
Acid and an irritant gas, Causing the simultaneous evolution of hydrocyanic. H. Lehrecke. 1,780,197; Nov. 4.
Acid, Evolution of hydrocyanic. H. Lehrecke. 1,780,196; Nov. 4.
Acid jar. R. W. Peterson. 1,780,534; Nov. 4.
Acid, Stabilization of hydrocyanic. H. Lehrecke. 1,780,198; Nov. 4.
Actuator for controlling devices. L. E. Koch and H. F. Dever. 1,780,302; Nov. 4.
Aeroplane. T. H. Duncombe. 1,780,672; Nov. 4.
Aeroplane. C. H. Mattblessen, jr. 1,780,561; Nov. 4.
Aeroplane. A. G. Parker. 1,780,565; Nov. 4.
Aeroplane. F. Tupta. 1,780,410; Nov. 4.
Aeroplanes, Controlling. F. H. Page. 1,780,838; Nov. 4.
Agitating, mixing, and circulating machine. T. O'Farrell. 1,780,360; Nov. 4.
Agitator. J. E. Bond. 1,780,166; Nov. 4.
Aircraft, Determining drift of. C. A. Snow, jr. 1,780,369; Nov. 4.
Aircraft motor. S. J. Velton. 1,780,450; Nov. 4.
Airfoil and fuselage connection. V. J. Burnelli. 1,780,812; Nov. 4.
Airplane. V. J. Burnelli. 1,780,813; Nov. 4.
Airplanes, Pneumatic suspension for. G. L. R. J. Messier. 1,780,531; Nov. 4.
Airship of the rigid type, Metallic. T. B. Slate. 1,780,448; Nov. 4.
Alarm: *See*—
Switch alarm.
Aldehyde amine condensation product. I. Williams and and W. B. Burnett. 1,780,326; Nov. 4.
Aldehyde amine condensation products. W. B. Burnett and I. Williams. 1,780,334; Nov. 4.
Alpha cellulose, Manufacturing. L. I. L. Durchman. 1,780,347; Nov. 4.
Ammonia-gas detector. L. A. Havens, jr. 1,780,483; Nov. 4.
Anchor, Rail. C. B. Shepherd. 1,780,444; Nov. 4.
Anchor, Rail. H. G. Warr. 1,780,412; Nov. 4.
Anchor, Railway-rail. H. G. Norwood. 1,780,714; Nov. 4.
Arch corrector. F. H. Griffith. 1,780,479; Nov. 4.
Area-estimating device for sheet material. B. S. Leslie. 1,780,237; Nov. 4.
Ash-tray structure. B. Iizuka. 1,780,591; Nov. 4.
Automobile. A. H. Leamy. Des. 82,428; Nov. 4.
Automobile. A. H. Leamy. Des. 82,437; Nov. 4.
Automobile table. F. Goldbecher. 1,780,706; Nov. 4.
Automobiles, Shipping of. M. D. Tucker. 1,780,282; Nov. 4.
Badge or similar article. H. A. Proctor. Des. 82,448; Nov. 4.
Bag: *See*—
Golf bag.
Bag clasp. E. G. Johnson. 1,780,880; Nov. 4.
Bag-tying machine. G. K. Crutchfield, jr., W. C. Northam, and J. C. Kinker, jr. 1,780,815; Nov. 4.
Baling press. G. W. Langford. 1,780,528; Nov. 4.
Bar: *See*—
Type bar.
Base for statuary and the like, Illuminated. H. Shapiro. Des. 82,454; Nov. 4.
Bath apparatus, Sun-. G. A. Proctor. 1,780,363; Nov. 4.
Beater, Paper pulp. W. N. Sherwood. 1,780,845; Nov. 4.
Bed, Convertible single or double. W. Lewis. 1,780,792; Nov. 4.
Bed, Hospital. E. L. Munson. 1,780,399; Nov. 4.
Bed-spring fabric. J. Johnson. 1,780,352; Nov. 4.
Belt carrier. A. Hein. 1,780,523; Nov. 4.
Berry picker. H. E. Carr. 1,780,876; Nov. 4.
Betainethiocyanate. R. Berendes and L. Schütz. 1,780,860; Nov. 4.
Binder, Loose-leaf. J. N. Mortensen. 1,780,835; Nov. 4.
Binder, Temporary. H. D. Manning. 1,780,429; Nov. 4.
Block: *See*—
Follower block. Insulating block.
Blow-out preventer, Automatic. P. B. Hart. 1,780,387; Nov. 4.
Blowtorch. H. Birnbaum. 1,780,152; Nov. 4.
Board: *See*—
Wall board.
Boards, Device for the manufacture of doweled wooden. H. Scheidemandel. 1,780,721; Nov. 4.
Boat. J. H. Freese. 1,780,467; Nov. 4.
Bobbin, Sewing-machine. R. K. Clark. 1,780,742; Nov. 4.
Bobbin-winding machine. B. T. Leveque. 1,780,304; Nov. 4.
Boiler: *See*—
Heating boiler. Steam boiler.
Boiler. J. Van Brunt. 1,780,285; Nov. 4.
Bolt and nut lock. W. R. Hewitt. 1,780,675; Nov. 4.
Book-backing and press-machine combination. J. W. Gross. 1,780,296; Nov. 4.
Booth, Telephone. S. Teplow. 1,780,251; Nov. 4.
Bottle cap and measuring device. E. L. Gordon. 1,780,875; Nov. 4.
Bottle-capping machine. E. S. Burdick, L. P. Byrne, and F. W. Chausse. 1,780,639; Nov. 4.
Bottle-capping machine. C. B. Woodman. 1,780,327; Nov. 4.
Bottle-cleansing machine. A. L. Washburne. 1,780,772; Nov. 4.
Bottle structure. C. R. Webber. 1,780,728; Nov. 4.
Bow tie. G. E. Figg. 1,780,418; Nov. 4.
Box: *See*—
Display box.
Box and making the same, Wire-bound. E. T. Johnson. 1,780,709; Nov. 4.
Brace: *See*—
Truss brace.
Bracelets, Extension device for. A. F. Kraemer. 1,780,824; Nov. 4.
Bracket: *See*—
Superheater bracket.
Bracket for tractor hoists. S. B. Gorbutt. 1,780,646; Nov. 4.
Braid, Braided waved. H. Berlin. 1,780,515; Nov. 4.
Brake drum. J. W. Johnston. 1,780,234; Nov. 4.
Brake-equalizing mechanism. O. M. Nacker. 1,780,498; Nov. 4.
Brakes, Metallic shoe for fluid-pressure-operated. B. A. Linderman. 1,780,200; Nov. 4.
Breaker mechanism. J. C. Baker. 1,780,415; Nov. 4.
Brush. J. Buchmann. 1,780,221; Nov. 4.
Brush-making machine. C. F. Shultz. 1,780,278; Nov. 4.
Brush or the like, Plasterer's. J. T. Cook. 1,780,340; Nov. 4.
Buckle, Shoe. C. G. King. Des. 82,432; Nov. 4.
Buffet. F. A. Gleichauf. Des. 82,421; Nov. 4.
Building. F. W. McDonald. Des. 82,442; Nov. 4.
Building construction. F. H. Halsey. 1,780,707; Nov. 4.
Building material of varying densities, Manufacturing. E. C. Loetscher. 1,780,623; Nov. 4.
Building or analogous structure, Amusement-park. E. C. Hoppe. Des. 82,427; Nov. 4.
Bulb-cullet-centering device. C. Fleischmann. 1,780,618; Nov. 4.
Bumper rack. W. E. V. Shaw. 1,780,209; Nov. 4.
Burner: *See*—
Fuel burner. Oil burner.
Hydrooil burner. Sludge burner.
Burner. J. L. Mandeville. 1,780,596; Nov. 4.
Burner and control therefor, Fuel. R. F. Metcalfe. 1,780,357; Nov. 4.
Button. E. G. Johnson. 1,780,555; Nov. 4.
Cabinet. H. Berg. Des. 82,413; Nov. 4.
Cabinet, Combination. M. W. Jones. 1,780,353; Nov. 4.
Cabinet, Dental. C. A. Lawson, sr., and C. A. Lawson, jr. 1,780,757; Nov. 4.
Cabinet, Kitchen. J. F. Kasper. Des. 82,430; Nov. 4.
Caisson head. F. B. Goldsborough. 1,780,586; Nov. 4.
Cake reenforcements, Method of and apparatus for applying. F. W. Young. 1,780,732; Nov. 4.
Calculating device. J. R. McNally. 1,780,494; Nov. 4.
Call system. I. J. Lichter. 1,780,711; Nov. 4.
Camera mounting. A. Fried. 1,780,585; Nov. 4.
Camera tripod. E. de Moulin. 1,780,225; Nov. 4.
Can-boxing machine. C. M. Hesson and W. J. Koch. 1,780,424; Nov. 4.
Can-closing machine. J. Wery. 1,780,729; Nov. 4.
Can-top lock. C. E. Anderson. 1,780,575; Nov. 4.
Cans, Apparatus for embossing. W. H. Haupt. 1,780,890; Nov. 4.
Car, Armored. K. Danker. 1,780,518; Nov. 4.
Car, Funeral. S. Paul. 1,780,718; Nov. 4.
Carbon, Manufacture of high-purity. D. Gardner. 1,780,154; Nov. 4.
Carbonaceous materials, Treatment of. R. Lessing. 1,780,830; Nov. 4.
Carrier: *See*—
Belt carrier.
Cartridges, Coating. J. D. Pedersen. 1,780,566; Nov. 4.
Case: *See*—
Show case.
Casing, Clock. R. P. Nichols. Des. 82,447; Nov. 4.
Casing for an oil pump. J. Stanitz. Des. 82,458; Nov. 4.
Casket attachment, Burial-. J. Q. Clarke. 1,780,171; Nov. 4.
Caster, Thread-guard. H. C. Naschke, jr. 1,780,761; Nov. 4.

Cellulose, Esterifying. F. Becker, H. Heimann, and A. Bayerl. 1,780,151; Nov. 4.
Cellulose esters and ethers, Dyeing of. E. A. Speight. 1,780,320; Nov. 4.
Cellulose pulp, Preparing. H. L. Horn. 1,780,750; Nov. 4.
Cementing machine. J. W. Cosgrove. 1,780,341-2; Nov. 4.
Chain carrier and pull. J. R. Moore. 1,780,834; Nov. 4.
Chair: *See*—
Deformable chair.
Chair. J. J. McGerry and C. H. Whiting. Des. 82,444; Nov. 4.
Chilling meats, Apparatus and method for. J. P. Malone. 1,780,267; Nov. 4.
Chopper. H. Wenalan. 1,780,453; Nov. 4.
Chromatic-playing attachment for harmonicas. W. E. Shaver. 1,780,368; Nov. 4.
Chromium plating. W. M. Phillips. 1,780,535; Nov. 4.
Cigarette extinguisher and residue receptacle, Combined. F. Weinberg. 1,780,258; Nov. 4.
Circuit-breaking device. C. A. Martin. 1,780,202; Nov. 4.
Circuit-interrupting device. J. W. Owens. 1,780,684; Nov. 4.
Circuits, Electrical amplifier. S. Y. White. 1,780,611; Nov. 4.
Clamp: *See*—
Fabric-tensioning clamp.
Clasp: *See*—
Bag clasp.
Cleaner: *See*—
Flue cleaner.
Cleaner-set package. J. L. Miller. 1,780,268; Nov. 4.
Cleaning apparatus, Bottle. R. and L. Vosika. 1,780,451; Nov. 4.
Cleaning device, Cutlery-. H. Williams. 1,780,637; Nov. 4.
Clip: *See*—
Glazing clip. Rib clip.
Paper clip. Snap-on clip.
Clippers, Curved-blade barber. A. T. Scheiwer. 1,780,276; Nov. 4.
Clock case. J. H. Schaefer. Des. 82,452; Nov. 4.
Clock or the like. E. W. Goff. Des. 82,424; Nov. 4.
Closet-flushing device. C. W. Brown. 1,780,810; Nov. 4.
Clothesline and drier. H. T. Horscraft and W. L. King. 1,780,708; Nov. 4.
Clutch. E. P. Bullard and G. F. Kolb. 1,780,222; Nov. 4.
Clutch. A. W. Frehse and C. G. Belden. 1,780,749; Nov. 4.
Clutch mechanism. F. S. Miller. 1,780,241; Nov. 4.
Clutch-ring- shearing machine. T. H. Bateson. 1,780,259; Nov. 4.
Coating composition. W. E. Lawson. 1,780,652; Nov. 4.
Coffee-making device. J. D. Houck. 1,780,751; Nov. 4.
Coffin-lowering device. H. J. Cordonnier and C. H. Ziler. 1,780,700; Nov. 4.
Coin assorter. A. Godefroid. 1,780,819; Nov. 4.
Coloring agent for fabrics and making same. A. Picareff. 1,780,314; Nov. 4.
Comb. A. D. McKellar. 1,780,206; Nov. 4.
Compact. E. W. Bassett. 1,780,736; Nov. 4.
Compressor. N. A. Christensen. 1,780,642; Nov. 4.
Compressor, Air. M. B. Morgan. 1,780,398; Nov. 4.
Compressor and locking means therefor. O. J. Larson and J. R. Jones. 1,780,354; Nov. 4.
Concrete-road construction. J. N. Heltzel. 1,780,588; Nov. 4.
Condensation product of the benzodiazine series. W. Hentrich, M. Hardtmann, and R. Knoche. 1,780,879; Nov. 4.
Condenser. R. N. Ehrhart. 1,780,781; Nov. 4.
Condenser. J. F. Grace. 1,780,477-8; Nov. 4.
Condenser, Electrical. S. S. Cramer. 1,780,172; Nov. 4.
Condenser induction motor. C. L. Kennedy. 1,780,395; Nov. 4.
Condenser, Steam. J. F. Grace. 1,780,476; Nov. 4.
Condenser, Surface. A. J. Nott. 1,780,837; Nov. 4.
Conductor, Electric. E. J. Schneider and P. Wiggins. 1,780,722; Nov. 4.
Conductor, Electrical. G. C. Oxer. 1,780,533; Nov. 4.
Conductor, Electrical. G. C. Oxer. 1,780,564; Nov. 4.
Conduits and the like, Apparatus for cleaning out. J. C. Miller. 1,780,436; Nov. 4.
Connecter for electrical conductors, Terminal. F. W. Zepp. 1,780,289; Nov. 4.
Contact apparatus, Liquid and gas. F. H. Wagner. 1,780,255; Nov. 4.
Container, Dispensing. H. E. Schulse. 1,780,508; Nov. 4.
Container for ice cream, Edible. B. Smith. Des. 82,455; Nov. 4.
Control apparatus, Master. L. E. Spray. 1,780,658; Nov. 4.
Control device. E. J. Dillman. 1,780,417; Nov. 4.
Control device for carburetors, Remote. F. L. Hammer, W. R. Smith, and S. Esborn. 1,780,522; Nov. 4.
Control for electric heaters, Thermostatic. S. M. and J. H. Carmean. 1,780,462; Nov. 4.
Control for oil filters. C. R. Short. 1,780,723; Nov. 4.
Control mechanism for grain car unloading apparatus. A. B. Christy. 1,780,578; Nov. 4.
Control of turboalternators, Automatic. T. R. Warren. 1,780,691; Nov. 4.
Control or power lever mechanism. A. J. McEwan. 1,780,713; Nov. 4.
Control system. A. E. Anderson. 1,780,664; Nov. 4.
Control system. E. L. Hough. 1,780,676; Nov. 4.
Controlling device. F. C. Kinney and W. T. Stockton. 1,780,752; Nov. 4.
Conveyer and conveyer roller. W. McKee. 1,780,493; Nov. 4.
Conveyer, Apron-type. F. A. Fahrenwald. 1,780,382; Nov. 4.
Conveyer, Spiral. S. H. Hale. 1,780,481; Nov. 4.
Conveyer system. C. S. Jennings and L. C. Allen. 1,780,486; Nov. 4.
Core drill, Rotary. J. E. Shows and W. T. Dunn. 1,780,447; Nov. 4.
Core-molding mechanism. R. E. Dunham. 1,780,470; Nov. 4.
Corner die. J. A. McGregor. 1,780,432; Nov. 4.
Corset-steel protector. M. L. Benzie. 1,780,859; Nov. 4.
Costumer, Child's. G. A. Muller. Des. 82,446; Nov. 4.
Cotton picker. W. E. Muller, R. J. Shinn, and C. S. Grove. 1,780,497; Nov. 4.
Coupler, Rubber. P. L. Tenney. 1,780,727; Nov. 4.
Coupling: *See*—
Flexible coupling. Pipe coupling.
Coupling arrangement for frequency changers. W. Schaffer. 1,780,542; Nov. 4.
Couplings, Regulating device for liquid. G. Bauer and C. Schmieske. 1,780,613; Nov. 4.
Cover, Magazine. W. D. Rose. Des. 82,449; Nov. 4.
Covering for bridges, Protective. W. H. Lawrence. 1,780,622; Nov. 4.
Craft adapted to travel on land or water or in the air. J. B. Icre. 1,780,298; Nov. 4.
Crankless engine. T. L. Sherman. 1,780,365; Nov. 4.
Cream testers, Timer for. P. L. and B. F. Cool. 1,780,377; Nov. 4.
Crusher: *See*—
Gyratory crusher.
Curtain, Automobile. C. P. Weaver. 1,180,257; Nov. 4.
Cutter: *See*—
Weed cutter.
Cutter for sugar cane and the like, Rotary. A. M. Simpson. 1,780,247; Nov. 4.
Cutter head. A. A. Clarke. 1,780,170; Nov. 4.
Cutter head. E. S. and H. L. Shimer. 1,780,846; Nov. 4.
Cutters, Making helical. W. H. Wheatley. 1,780,805; Nov. 4.
Cutting machine. W. E. Kay. 1,780,680; Nov. 4.
Cylinder, Engine. W. Hefti. 1,780,388; Nov. 4.
Deformable chair. M. Fujita. 1,780,468; Nov. 4
Derailing frog. C. Bess. 1,780,372; Nov. 4.
Desk, Office. C. E. Wheeler. 1,780 287; Nov. 4.
Detector: *See*—
Ammonia-gas detector.
Device for mechanically determining and indicating the degree of usage of a mechanism. D. Schatz. 1,780,603; Nov. 4.
Device to insure the bursting of all kinds of bombs in whatever position of impact or fall. E. Manzolini, V. Capobianco, and F. Scarponi. 1,780,624; Nov. 4.
Die: *See*—
Corner die.
Die for flanging sheet metal. J. A. McGregor. 1,780,433; Nov. 4.
Differential. G. F. Eckart. 1,780,745; Nov. 4.
Dipper tooth. W. S. McKee and E. C. Bauer. 1,780,397; Nov. 4.
Dirt mover. H. Maschek. 1,780,239; Nov. 4.
Dish or similar article. W. P. Graham. Des. 82,422; Nov. 4.
Dishwasher. F. A. Walker. 1,780,452; Nov. 4.
Disk harrow. W. D. Dewend. 1,780,644; Nov. 4.
Dispenser, Automatic liquid-fuel. C. Braby. 1,780,292; Nov. 4.
Dispensing and display device, Beverage. H. C. Smith. 1,780,687; Nov. 4.
Display apparatus, Advertising. J. Lashenick. 1,780,651; Nov. 4.
Display apparatus and operating the same. G. A. Wearham. 1,780,773; Nov. 4.
Display box. R. McClelland, H. K. Powell and S. N. Leopold. 1,780,760; Nov. 4.
Display stand, Tire-. E. Dyment. 1,780,381; Nov. 4.
Doorcheck. J. Weiss. 1,780 662; Nov. 4.
Door-closing device. J. Eaton. 1,780,673; Nov. 4.
Drain for window screens, Rain. E. A. Malm. 1,780,492; Nov. 4.
Drill: *See*—
Core drill.
Driving mechanism used in connection with dental tools. H. Meyer. 1,780,495; Nov. 4.
Drying device. J. A. Shoemaker. 1,780,446; Nov. 4.
Dust separator. S. N. Chew. 1,780,641; Nov. 4.
Dyeing machine. H. Nabholz. 1,780,628; Nov. 4.
Dyestuffs, New vat. P. Nawiasky and A. Krause. 1,780,836; Nov. 4.
Electric controller. R. R. Dunlop. 1,780,703; Nov. 4.
Electric distribution system. T. F. Barton. 1,780,668; Nov. 4.
Electric-machine elements, Winding dynamo-. V. G. Apple. 1,780,456; Nov. 4.
Electric motor, Inverted. E. Cornella. 1,780,867; Nov. 4.
Electric switch. L. Kellner. 1,780,894; Nov. 4.
Electric switch. G. J. Meuer. 1,780,434; Nov. 4.

Electrical fixture. A. A. Smith. 1,780,847; Nov. 4.
Electrical generating apparatus, Constant-speed multifrequency. W. Dornig. 1,780,702; Nov. 4.
Electrical switch. G. O. Wilms. 1,780,216; Nov. 4.
Electromagnetic transmitter. A. A. Thomas. 1,780,409; Nov. 4.
Electrooptical transmission. F. W. Reynolds. 1,780,364; Nov. 4.
Electrotherapeutic machine. H. P. Pullwitt 1,780,600; Nov. 4.
Emulsifying and analogous apparatus. V. G. Walsh. 1,780,353; Nov. 4.
Enema pad. A. F. Shekter. 1,780,800; Nov. 4.
Energy, Utilization of hydraulic. F. Lawaczeck. 1,780,490; Nov. 4.
Engine: *See*—
Crankless engine. Steam engine.
Internal-combustion engine. Steam turbine engine.
Engine cooling system, Internal-combustion-. A. Christianson. 1,780,517; Nov. 4.
Engine-cylinder head, Sleeve-valve. A. M. Niven. 1,780,763; Nov. 4.
Engine drain or compression-release valve. J. G. and C. T. Barclay. 1,780,857; Nov. 4.
Engines, Air cooling the cylinders of internal-combustion. J. Bowen. 1,780,809; Nov. 4.
Engines, Choke means for two-cycle. O. H. Spencer. 1,780,635; Nov. 4.
Engines, Fuel-feeding apparatus for internal-combustion. J. K. Olsen. 1,780,310; Nov. 4.
Exhaust connection. J. B. Yatel. 1,780,693; Nov. 4.
Explosive shocks, Method and apparatus for recording. F. Rieber. 1,780,567; Nov. 4.
Fabric: *See*—
Bed-spring fabric. Merchandising fabric.
Fabric and making the same, Ornamental. C. Dreyfus and W. R. Blume. 1,780,645; Nov. 4.
Fabric-tensioning clamp. A. C. Parlini. 1,780,768; Nov. 4.
Fan, Electric. J. Lanz. 1,780,789; Nov. 4.
Fastener for packing cases. W. M. Storey. 1,780,544; Nov. 4.
Fastener, Shirt. F. Wright. 1,780,692; Nov. 4.
Fats, waxes, and resins, Oxidation of. W. Pungs. 1,780,632; Nov. 4.
Feeder, Dry poultry. A. S. Johnson. 1,780,392; Nov. 4.
Ferrous articles, Preparing chromium-plated. V. M. Vertucci. 1,780,213; Nov. 4.
Fiber of nonconiferous origin, Treating. G. A. Richter. 1,780,539; Nov. 4.
File, Paper. C. E. Attwood. 1,780,735; Nov. 4.
Filter bed. A. Lenderink. 1,780,791; Nov. 4.
Filter, Oil. C. A. Winslow. 1,780,663; Nov. 4.
Filtering device. F. W. Young. 1,780,777; Nov. 4.
Finish on metal surfaces, Producing two-toned. M. J. Udy. 1,780,212; Nov. 4.
Firing mechanism, High-speed. J. C. Garand. 1,780,521; Nov. 4.
Flare. S. Wiley. 1,780,214; Nov. 4.
Flash device. W. T. Skinner. 1,780,509; Nov. 4.
Flax, Method of and apparatus for decorticating, retting, and scutching. N. C. Grigg. 1,780,480; Nov. 4.
Flexible coupling. R. L. Little. 1,780,712; Nov. 4.
Flue cleaner. D. M. Miller. 1,780,435; Nov. 4.
Fluid-displacement apparatus. T. M. Gunn. 1,780,784; Nov. 4.
Fluid heater. W. A. Jones. 1,780,301; Nov. 4.
Fluid-pressure brake. A. D. Pentz. 1,780,656; Nov. 4.
Fluid pressure-operated device. B. A. Linderman. 1,780,199; Nov. 4.
Foam for fire-extinguishing purposes, Device for distributing. H Burmeister. 1,780,168; Nov. 4.
Folding table. J. E. Kalgren. 1,780 394; Nov. 4.
Follower block. C. Bergmann. 1,780,861; Nov. 4.
Foot guard. J. Bradford and C. B. Peoples. 1,780,331; Nov. 4.
Footwear, Apparatus for soling and pressing. C. M. Richardson and V. H. Bodle. 1,780,769; Nov. 4.
Fountain for printing presses, Ink. H. C. Alger. 1,780,694–5; Nov. 4.
Fractionation apparatus. W. Z. Friend. 1,780,818; Nov. 4.
Frame: *See*—
Heddle frame.
Frame for display signs and the like. I. Lipkowski. 1,780,305; Nov. 4.
Framework structure for the steering gear of airships. J. Schnette. 1,780 569; Nov. 4.
Friction body for friction couplings, brakes, and the like. H. Kattwinkel. 1,780,710; Nov. 4.
Friction device. V. G. Apple. 1,780,455; Nov. 4.
Fuel briquettes, Manufacturing. H. F. Maurel. 1,780,205; Nov. 4.
Fuel burner, Liquid-. J. W. Newbery. 1,780,273; Nov. 4.
Fuel-burning boiler furnace, Finely-divided. J. Van Brunt. 1,780,284; Nov. 4.
Furnace: *See*—
Blast furnace.
Furnace. H. E. Leety, J. A. Eckert, and A. W. Page. 1,780,783; Nov. 4.
Furnace dust, Processing. W. J. McGurty. 1,780,838; Nov. 4.
Furnaces, Fire wall for. A. Lane. 1,780,303; Nov. 4.
Furnaces, Operating blast. J. C. Hopkins and A. Osolin. 1,780,485; Nov. 4.
Furniture, Article of. N. E. Stephens. 1,780,570; Nov. 4.
Galvinizer's waste, Utilization of. W. G. Waring. 1 780 323; Nov. 4.
Game, Social. W. Walss. 1,780,256; Nov. 4.
Garment, Step-in combination. M. F. Robischon. 1,780,798; Nov. 4.
Gas, Producing water. S. J. McAuliffe. 1,780,759; Nov. 4.
Gases, Apparatus for the hot purification of. A. Joseph. 1,780,159; Nov. 4.
Gases, Method of and apparatus for liquefying. L. B. Strong. 1,780,250; Nov. 4.
Gate and train stop, Railroad crossing. P. Fischer. 1,780,520; Nov. 4.
Gauge and scribe, Siding. P. R. Spillman. 1,780,849; Nov. 4.
Gear-generating machine. E. Finsen. 1,780,350; Nov. 4.
Gear mechanism, Reversing-. F. N. Bard. 1,780,329; Nov. 4.
Gear, retractable landing. V. J. Burnelli. 1,780,811; Nov. 4.
Generating steam by the burning of fuel in suspension, Apparatus for. J. Van Brunt. 1,780,283; Nov. 4.
Generator: *See*—
Oscillating generator. Steam or vapor generator.
Steam generator.
Glass, Process and apparatus for the manufacture of. C. Heuze. 1,780,590; Nov. 4.
Glass tank. G. W. Batchell. 1,780,164; Nov. 4.
Glazing clip. L. V. Sullivan. 1,780,852; Nov. 4.
Golf bag. S. H. Sutcliffe. 1,780,802; Nov. 4.
Golf-ball washer. C. W. Strong. 1,780,850; Nov. 4.
Golf-club head. G. W. Mattern. 1,780,625; Nov. 4.
Governor for battery ignition systems. W. E. Schwarzmann and C. Strniste. 1,780,771; Nov. 4.
Governor mechanism. J. H. Robertson. 1,780,540; Nov. 4.
Grab for drill rods and the like. H. E. Brown. 1,780,699; Nov 4.
Grain-loading device, Portable. A. McLennan. 1,780,307; Nov. 4.
Grease. O. C. Schmidt. 1,780,315; Nov. 4.
Grinding machine. H. H. Yerk and W. J. Baumberger. 1,780,288; Nov. 4.
Grinding machine, Radius-template-. H. V. Törnebohm. 1,780,211; Nov. 4.
Grinding mechanism for use with slicing machines, Knife-. E. Coulson. 1,780,868; Nov. 4.
Guanidine-aldehyde condensation product, Substituted. C. M. Stine. 1,780,636; Nov. 4.
Gutter construction. P. F. Flagge. 1,780 553; Nov. 4.
Gyratory crusher. R. Bernhard. 1,780,459; Nov. 4.
Hair and scalp treating apparatus. E. O. Frederics. 1,780,182; Nov. 4.
Hairdressing accessory. J. Oppenheim. 1,780,766; Nov. 4.
Hair waving. F. D. Snell. 1,780,449; Nov. 4.
Handle assembly. F. Kuhn. 1,780,825–6; Nov. 4.
Handle, blade support, and guard, Combined safety-razor. J. T. Scully. Des. 82,453; Nov. 4.
Handle for smokers' stands or article of analogous nature. F. J. Abel. Des. 82,409; Nov. 4.
Hanger: *See*—
Trousers hanger.
Harrows, Grass-pulling attachment for spring-toothed. J. H. Pixley. 1,780 840; Nov. 4.
Hatch loading in the rain for ships or the like, Apparatus for enabling. S. Tsuji. 1,780,322; Nov. 4.
Headlight. A. and D. Astrup. 1,780,548; Nov. 4.
Headlight, Dirigible. J. M. Sherwig. 1,780,445; Nov. 4.
Headlight, Locomotive. W. N. Cobbs. 1,780,865; Nov. 4.
Heat-exchanging apparatus. A. H. Davis, jr. 1,780,294; Nov. 4.
Heat removal by mercury, Method and apparatus for. B. L. Newkirk. 1,780,683; Nov. 4.
Heat-transfer device. D. S. Jacobus and W. A. Jones. 1,780,300; Nov. 4.
Heater: *See*—
Fluid heater. Water heater.
Heaters, System of pressure and temperature regulation for. D. J. Jones. 1,780,393; Nov. 4.
Heating boiler. B. H. Briney. 1,780 576; Nov. 4.
Heddle frame. J. J. Kaufmann. 1,780,786; Nov. 4.
Heel-shank-shaping machine. L. B. Pope. 1,780,841; Nov. 4.
Hinge means for lavatory bowls. C. E. Cary. 1,780,615; Nov. 4.
Hitch. J. L. Hagel. 1,780,186; Nov. 4.
Hoist anchorage for car roofs. A. R. Wilson. 1,780,730; Nov. 4.
Holder, Adjustable water-sprinkler. A. S. Morris. 1,780,308; Nov. 4.
Holder, Cigarette and cigar. R. Hirsch. 1,780,389; Nov. 4.
Holder, Combined collar and necktie. W. J. Morse. 1,780,532; Nov. 4.
Holder, Door. F. W. Richards. 1,780,403; Nov. 4.
Holder for cameras, Filter. I. I. Green. 1,780,384; Nov. 4.
Holder, Glare-shield. O. S. Nelson. 1,780,400; Nov. 4.
Holder, Necktie. E. M. Elsfeld. Des. 82,419; Nov. 4.
Holder, Safety-razor-blade. J. W. Ashworth. 1,780,549; Nov. 4.
Holder, Tree-branch. C. A. Fassen. 1,780,181; Nov. 4.

Holding and supporting device for printing or print-receiving elements and the like. W. C. Heubner. 1,780,677; Nov. 4.
Hook: *See*—
Terminal hook.
Hosiery form. W. J. De Witt. 1,780,744; Nov. 4.
Hosiery package. I. Kavanau. 1,780,558; Nov. 4.
Hub, Collapsible. A. G. Wise. 1,780,510; Nov. 4.
Hydrocarbons, Process and apparatus for treating. E. A. Prudhomme. 1,780,536; Nov. 4.
Hydrocarbons, Treating. C. J. Frankforter. 1,780,873; Nov. 4.
Hydrooil burner. W. Teale and H. F. McLauthlin. 1,780,571; Nov. 4.
Ice blocks by fluid pressure, Scoring. R. H. Roark. 1,780,441; Nov. 4.
Ice bunker for refrigerator cars. A. F. O'Connor. 1,780,765; Nov. 4.
Ice from windshields, Apparatus for eliminating. C. R. Otto. 1,780,502; Nov. 4.
Ignition for explosive mixtures, System of. L. Novelli. 1,780,499; Nov. 4.
Illuminating device. A. W. Beuttell. 1,780,373; Nov. 4.
Impeller agitator. A. W. Bull. 1,780,551; Nov. 4.
Impelling device. J. H. Davis. 1,780,580; Nov. 4.
Index system, Card. R. A. Furlong. 1,780,227; Nov. 4.
Indicator: *See*—
Weight indicator.
Induction motor. C. L. Kennedy. 1,780,881; Nov. 4.
Ingot-stripping mechanism. W. D. Keller and W. H. Poto. 1,780,787; Nov. 4.
Inhibitor. R. E. Lawrence. 1,780,595; Nov. 4.
Insect-guard attachment for hats. L. M. Sblenker. 1,780,801; Nov. 4.
Insect repeller. W. E. Smith. 1,780,407–8; Nov. 4.
Insulating block. J. Berg. 1,780,739; Nov. 4.
Insulator and making same, Glass. D. H. Rowland. 1,780,246; Nov. 4.
Internal-combustion engine. C. T. Watts and F. N. Bay. 1,780,854; Nov. 4.
Internal-combustion engine. J. F. White. 1,780,454; Nov. 4.
Internal-combustion engine, Rotary. O. W. Schumann. 1,780,443; Nov. 4.
Internal-combustion engine, Two-cycle. C. G. Curtis and E. R. Newton. 1,780,175; Nov. 4.
Iron: *See*—
Steaming iron.
Jack: *See*—
Lifting jack.
Jar: *See*—
Acid jar.
Jewelry clasp, Costume. M. Lucomlin. 82,429; Nov. 4.
Joint. E. J. Hayman. 1,780,232; Nov. 4.
Jordan plug. B. Buehler. 1,780,863; Nov. 4.
Journal-bearing seal. C. C. Spreen. 1,780,248–9; Nov. 4.
Junction box for high-tension electric cables. C. F. Proos. 1,780,686; Nov. 4.
Knitting machine. E. U. Ames. 1,780,328; Nov. 4.
Knitting machine. H. G. and G. B. Leyton. 1,780,831; Nov. 4.
Knitting machine, Circular-. N. D. Lansdown. 1,780,756; Nov. 4.
Knotting device for machines for manufacturing knotted carpets. A. Blum. 1,780,740; Nov. 4.
Lace for dresses, Spanish. C. B. J. Molitor. Des. 82,445; Nov. 4.
Ladder. A. P. Kettmann and I. W. Anderson. 1,780,263; Nov. 4.
Ladders, Leveling attachment for. J. H. Harrison. 1,780,386; Nov. 4.
Lamp. R. E. Elizondo. 1,780,746; Nov. 4.
Lamp. S. W. Fruchtman. Des. 82,420; Nov. 4.
Lamp. H. V. Henderson. Des. 82,426; Nov. 4.
Lamp, Portable electric. W. Burnett, jr. 1,780,779; Nov. 4.
Latch and operating means therefor, Stanchion. L. G. Siebenmorgen. 1,780,367; Nov. 4.
Lath support, Metal-. T. A. Wray. 1,780,731; Nov. 4.
Lathe and lathe chuck. G. F. Hopkins. 1,780,390; Nov. 4.
Lather-forming device. R. H. Wager. 1,780,573; Nov. 4.
Laundry apparatus. A. D. Staley. 1,780,210; Nov. 4.
Lead alloy amenable to hardening by heat treatment. M. G. Corson. 1,780,261; Nov. 4.
Level device. C. A. Vols. 1,780,253; Nov. 4.
Lever for scales and making the same. L. Jacnichen. 1,780,262; Nov. 4.
Lifting jack. W. H. Lolley. 1,780,265–6; Nov. 4.
Lighting device, Flood-. P. S. Bailey. 1,780,666; Nov. 4.
Lighting fixture. H. Aglow. 1,780,161; Nov. 4.
Lighting fixture or article of similar nature. H. Bohl. Des. 82,415; Nov. 4.
Lighting fixture, Street-. G. R. Harris. Des. 82,425; Nov. 4.
Lighting fixture, Table-. B. Schaefer. Des. 82,451; Nov. 4.
Lime, Process of and apparatus for slaking. W. H. Henderson. 1,780,821; Nov. 4.
Liquid-measuring device. J. M. Mayhall and H. C. Morrison. 1,780,598; Nov. 4.
Liquid-processing apparatus. E. B. Nichols. 1,780,794; Nov. 4.
Liquid supersaturated solution of thiocarbanilide. P. Siedler and A. Moeller. 1,780,634; Nov. 4.
Liquid-testing device. J. M. Mayhall and H. C. Morrison. 1,780,597; Nov. 4.
Liquids into constituents possessing a low boiling point and constituents possessing a high boiling point by distillation and rectification, Apparatus for separating. A. Messer. 1,780,563; Nov. 4.
Listing machine. C. B. Edwards. 1,780,295; Nov. 4.
Litter-gathering device. A. H. Fisher. 1,780,748; Nov. 4.
Loader for fuel trucks, Automatic tank. C. E. Spinney. 1,780,605; Nov. 4.
Lock: *See*—
Bolt and nut lock. Window lock.
Can-top lock.
Lock and interlock, Transmission. R. Neef. 1,780,762; Nov. 4.
Locomotive structure. W. O. Ashe. 1,780,457; Nov. 4.
Locomotive structure. G. F. Driemeyer and E. C. Jackson. 1,780,466; Nov. 4.
Lubricant, Composite. J. A. Higgins. 1,780,157; Nov. 4.
Lubricating device. C. D. Otto. 1,780,629; Nov. 4.
Lubricator: *See*—
Wheel-flange lubricator.
Lumber trimmer. S. K. Prescott. 1,780,362; Nov. 4.
Machine for making spaced coiled filaments. S. Wadsten. 1,780,609; Nov. 4.
Machine for testing and quantitatively indicating the cutting power and durability of blades and cutlery. K. Honda. 1,780,822; Nov. 4.
Magnetic reproducer. P. E. Fischler. 1,780,419; Nov. 4.
Manacle. S. F. Gill. 1,780,473; Nov. 4.
Manifold, Intake. E. M. De Long. 1,780,519; Nov. 4.
Marcel cap. M. H. Thornburgh. 1,780,887; Nov. 4.
Marker, Poultry. E. D. Olson and W. A. Horton. 1,780,715; Nov. 4.
Mat, Automobile floor. J. F. Duffy. Des. 82,412; Nov. 4.
Match-manufacturing machine. S. Nelson. 1,780,359; Nov. 4.
Matrix-setting and type-line-casting machine. J. Dormeth. 1,780,816; Nov. 4.
Measuring device. W. B. Ranney. 1,780,601; Nov. 4.
Merchandising fabric. A. R. Golden and J. I. Kahn. 1,780,228; Nov. 4.
Metal amino carbonyls and making the same. P. S. Danner and J. E. Muth. 1,780,643; Nov. 4.
Metal articles, Acid treatment of. R. E. Lawrence. 1,780,594; Nov. 4.
Metal pellets, Process and mechanism for making. D. Martin. 1,780,201; Nov. 4.
Metal sheeting. R. R. Bloss. 1,780,862; Nov. 4.
Metal slat for window shades. W. E. Kallin and L. G. Boynton. 1,780,556; Nov. 4.
Metal-working machine. R. S. Brown. 1,780,889; Nov. 4.
Microphone, Condenser. E. G. Crippen. 1,780,671; Nov. 4.
Mining machine. N. D. Levin. Re17,855; Nov. 4.
Mirror and instrument, Combined. W. La Hodny. Des. 82,436; Nov. 4.
Mixer. K. Adams. 1,780,733; Nov. 4.
Mixer for internal-combustion engines, Fuel. J. McIntosh. 1,780,026; Nov. 4.
Mixing device, Fluid-. W. A. Peters, jr. 1,780,438; Nov. 4.
Moisture from air, Apparatus for extracting. F. R. Hall. 1,780,156; Nov. 4.
Mold for concrete buildings. A. G. W. Wedberg. 1,780,661; Nov. 4.
Molding apparatus. A. T. Bateman and A. Irvine. 1,780,514; Nov. 4.
Motor: *See*—
Aircraft motor. Induction motor.
Condenser induction motor. Synchronous motor.
Electric motor. Water motor.
Motor and pump, Combination. A. A. Canton. 1,780,338–9; Nov. 4.
Motor-controlling device. C. J. Anderson. 1,780,612; Nov. 4.
Motorcycle, Air-propelled. R. E. Forman. 1,780,705; Nov. 4.
Motor-driven shears. C. Dubois. 1,780,817; Nov. 4.
Motor suspension. T. W. Price. 1,780,719; Nov. 4.
Motors, Automatic control system for electric. A. C. Durdin, jr. 1,780,380; Nov. 4.
Mounting for electrical switches. L. A. M. Phelan. 1,780,312; Nov. 4.
Mute, Banjo. C. W. Pierson, C. Y. Fitzgerald, and G. E. Thomae. 1,780,361; Nov. 4.
Needle for knitting machines, Welt. F. Sutcliffe, jr. 1,780,689; Nov. 4.
Needle, Knitting. W. H. and S. B. Leavin. 1,780,790; Nov. 4.
Nonskid device for the wheels of road vehicles. F. Bull and F. White. 1,780,864; Nov. 4.
Nozzle, Spray. W. C. Beach. 1,780,738; Nov. 4.
Obstructive matter from oil wells, Apparatus for the removable of. C. Larsen. 1,780,428; Nov. 4.
Oil burner. J. J. Barrett. 1,780,219; Nov. 4.
Oil burner. A. E. Grant. 1,780,185; Nov. 4.
Oil, Treating hydrocarbon. C. W. Watson. 1,780,286; Nov. 4.
Oiling apparatus. P. Dosch. 1,780,465; Nov. 4.
Optical apparatus. A. S. Cameron. 1,780,291; Nov. 4.
Optical device for radio cinematographic transmitters and receivers. L. Thurm. 1,780,572; Nov. 4.

Optical measuring instrument. A. C. Hardy. 1,780,231; Nov. 4.
Organ, Jazz. K. Stiegelmayer. 1,780,543; Nov. 4.
Ornament, Shoe. C. G. King. Des. 82,433; Nov. 4.
Ornament, Shoe. W. E. Smith. Des. 82,456; Nov. 4.
Oscillation generator. E. I. Green. 1,780,229; Nov. 4.
Oven, Coking retort. J. van Ackeren. 1,780,803; Nov. 4.
Oven construction. W. G. Miller. 1,780,269; Nov. 4.
Packing for fragile articles. M. Koppelman. 1,780,264; Nov. 4.
Packing, Rotary shaft. J. H. Noble. 1,780,764; Nov. 4.
Pad: *See*—
Enema pad.
Paper and making same, Shock-absorbing cushioning. J. E. Kieffer. 1,780,526; Nov. 4.
Paper and manufacturing same, Coated. W. W. McLaurin. 1,780,793; Nov. 4.
Paper and the like and manufacture of the same, Colored and tinted parchment. R. I. Cowen. 1,780,616; Nov. 4.
Paper clip. G. P. Schmitt. 1,780,893; Nov. 4.
Paper machine, Transparent-. E. M. Kratz. Re17,854; Nov. 4.
Paper, Package of toilet. J. E. H. Randerson. 1,780,275; Nov. 4.
Paper pulp, Production of. R. B. Wolf. 1,780,638; Nov. 4.
Parachute. E. L. Hoffman. 1,780,190; Nov. 4.
Partition bar for stables, Vertically-adjustable. E. Carman. 1,780,577; Nov. 4.
Pen, Fountain. M. Kolber. 1,780,527; Nov. 4.
Pen housing, Fountain-. C. R. Williams. 1,780,546; Nov. 4.
Pencil. P. A. Sharrow. 1,780,405; Nov. 4.
Pencil having a sharpening device for the lead. A. Diller. 1,780,581; Nov. 4.
Pencil, Magazine. L. E. Melèndez. 1,780,207; Nov. 4.
Petroleum emulsions, Breaking. M. De Groote and L. T. Monson. 1,780,343; Nov. 4.
Petroleum emulsions, Breaking. M. De Groote, L. T. Monson, and A. F. Wirtel. 1,780,344–5; Nov. 4.
Phonographs or the like, Volume-controlling device for automatic. B. E. Mills. 1,780,437; Nov. 4.
Photographic apparatus. P. Landrock. 1,780,489; Nov. 4.
Photographic fractional exposures, Apparatus for making. W. C. Huebner. 1,780,191; Nov. 4.
Photographic-printing apparatus. W. C. Huebner. 1,780,678; Nov. 4.
Photographic-printing device. R. F. Crane. 1,780,701; Nov. 4.
Piano, Sostenuto. S. Cooper. 1,780,670; Nov. 4.
Picker: *See*—
Berry picker. Cotton picker.
Pick-up attachment for combines. G. V. Gilger. 1,780,472; Nov. 4.
Picture frame. S. J. Attinger. Des. 82,410; Nov. 4.
Picture machine, Moving-. A. Papò and A. Gentilini. 1,780,311; Nov. 4.
Pictures in colors, Producing. G. F. Capwell. 1,780,260; Nov. 4.
Pile. I. Zeissl. 1,780,807; Nov. 4.
Pipe: *See*—
Smoker's pipe.
Pipe coupling, Automatic train-. C. E. Pharo. 1,780,795; Nov. 4.
Pipe fitting. J. A. Recko. 1,780,402; Nov. 4.
Pipe for smoking tobacco. H. M. McCormick. 1,780,682; Nov. 4.
Piston. P. M. Freer. 1,780,183; Nov. 4.
Piston and piston-ring assembly. A. B. Crouch. 1,780,223; Nov. 4.
Piston for internal-combustion engines. A. Lesage. 1,780,829; Nov. 4.
Piston ring. E. A. Benton and M. Linderner. 1,780,697; Nov. 4.
Planter attachment. A. W. Gustafson. 1,780,587; Nov. 4.
Plate. B. N. Kane. Des. 82,471; Nov. 4.
Plate or similar article. U. Tomita. Des. 82,459–61; Nov. 4.
Platen, Heat-transmitting. J. A. Stevens. 1,780,280; Nov. 4.
Plug cap. H. L. Strongson. 1,780,851; Nov. 4.
Plumb protector for elevator guides. T. J. Osinga. 1,780,501; Nov. 4.
Plunger for glass feeders, Composite. W. T. Barker, jr. 1,780,550; Nov. 4.
Plywood, Embossing. G. R. Meyercord and C. B. Norris. 1,780,496; Nov. 4.
Pocket and making the same, Shirt. J. Friedmann. 1,780,874; Nov. 4.
Pocket structure for garments. C. W. Mastin. 1,780,204; Nov. 4.
Polishing wheel. D. F. McGovern. Des. 17,853; Nov. 4.
Polysulphides and process of making, Substituted thiuram. G. S. Whitby. 1,780,545; Nov. 4.
Porous and nonporous material, Treating. T. F. Bradley. 1,780,375; Nov. 4.
Potato-digger blade. E. A. Johnson. 1,780,235; Nov. 4.
Pothead and series cut-out, Combination. P. F. Williams. 1,780,413; Nov. 4.
Power-control mechanism. F. L. Dake. 1,780,869; Nov. 4.
Power plant, Locomotive. L. R. Bester. 1,780,516; Nov. 4.
Power plants, Interstage superheating in steam. H. Elsner. 1,780,226; Nov. 4.
Power transmission. C. Bearens. 1,780,858; Nov. 4.
Power-transmission unit, Variable-speed. G. E. A. Hallett. 1,780,423; Nov. 4.
Power-transmitting mechanism. G. E. Molyneux. 1,780,654; Nov. 4.
Power-transmitting mechanism. W. L. Paul. 1,780,503; Nov. 4.
Press: *See*—
Baling press.
Presses, Feeding mechanism for. R. T. Anderson. 1,780,218; Nov. 4.
Pressure-controlling apparatus, Automatic. E. K. Evans. 1,780,583; Nov. 4.
Printing machines, Sheet-registering mechanism for. W. K. Eckhard. 1,780,348; Nov. 4.
Printing tubulating machine. J. R. Pierce. 1,780,685; Nov. 4.
Projector. S. L. Lebby. 1,780,355; Nov. 4.
Propeller, Aero. C. McCarroll. 1,780,431; Nov. 4.
Propeller for vessels and aircraft. M. Schul. 1,780 843; Nov. 4.
Propeller of motor-driven canal and other boats, river barges, and the like. T. H. Coggins and A Farrington. 1,780,552; Nov. 4.
Puller: *See*—
Wheel puller.
Pulp, Production of sulphite. G. A. Richter. 1,780,842; Nov. 4.
Pump. C. M. Bolster. 1,780,614; Nov. 4.
Pump, Electrical. A. A. Canton. 1,780,335; Nov. 4.
Pump, Intermittent gas-lift. M. T. Archer. 1,780,808; Nov. 4.
Pump mechanism. S. Wiltse. 1,780,217; Nov. 4.
Pump members, Making. V. V. Messer. 1,780,208; Nov. 4.
Pump, Sump or bilge. I. C. Jennings. 1,780,679; Nov. 4.
Pumping mechanism. A. A. Canton. 1,780,336-7; Nov. 4.
Rack: *See*—
Bumper rack.
Rack for rolled materials. M. T. Heavey. 1,780,647; Nov. 4.
Rack or support, Book. H. J. Dumben. 1,780,872; Nov. 4.
Radiator bracket, Universal. S. C. Appel. 1,780,162; Nov. 4.
Radiator, Deformed tube. C. Sonneborn. 1,780,319; Nov. 4.
Radiator shell. C. W. Van Ranst. Des. 82,462; Nov. 4.
Radiocabinet. H. B. Warner. Des. 82,464; Nov. 4.
Radio transmitting apparatus. W. M. Brower. 1,780,167; Nov. 4.
Rails upon ties, Supporting railway. W. H. Kirkbride. 1,780,306; Nov. 4.
Rake. H. W. Falstrom. 1,780,180; Nov. 4.
Rake-cleaning attachment. J. A. Steinmetz. 1,780,688; Nov. 4.
Reamer. W. M. McBride. 1,780,240; Nov. 4.
Reamer, Floating. C. W. Floss. 1,780,554; Nov. 4.
Receptacle, Ash. A. C. Grunwald. Des. 82,423; Nov. 4.
Records, Electric pick-up for gramaphone or other sound. J. Dieux. 1,780,378; Nov. 4.
Rectifier of the synchronous type. A. Latour. 1,780,827; Nov. 4.
Rectifying tube. J. Risler. 1,780,504; Nov. 4.
Reel for strip-applying machines, Reversible. P. A. Dinsmoor. 1,780,469; Nov. 4.
Refrigerated cabinet, Mechanically-. J. R. Replogle. 1,780,243; Nov. 4.
Refrigerating apparatus. H. B. Hull. 1,780,425; Nov. 4.
Refrigerating apparatus. W. H. F. Schmieding. 1,780,442; Nov. 4.
Refrigeration. C. G. Munters. 1,780,272; Nov. 4.
Refrigerator unit. E. B. Mallory. Des. 82,438–9; Nov. 4.
Reproducing by stamping, Process and apparatus for. E. O. Lanhoffer. 1,780,560; Nov. 4.
Rib clip. A. G. Siebenlist. 1,780,406; Nov. 4.
Ribbon-supporting mechanism. R. E. Page. 1,780,630; Nov. 4.
Rim for boilers and washing machines, Deflecting. A. Jackson. 1,780,192; Nov. 4.
Ring: *See*—
Piston ring.
Ring. A. Sager. Des. 82,450; Nov. 4.
Ring or similar article, Finger. J. Berlinger. Des. 82,470; Nov. 4.
Rod turner, Sucker-. F. H. Hall. 1,780,877; Nov. 4.
Roller or caster. M. Kurtzon. 1,780,755; Nov. 4.
Rotary chair. J. J. McGerry and C. H. Whiting. Des. 82,448; Nov. 4.
Rubber and product produced thereby, Treating. W. B. Pratt. 1,780,657; Nov. 4.
Rubber vulcanization. W. Scott. 1,780,604; Nov. 4.
Safety device for elevators. N. Scarpa. 1,780,568; Nov. 4.
Salt and pepper shaker. J. C. Kelly. Des. 82,431; Nov. 4.
Saw, Portable power. J. M. Crowe. 1,780,174; Nov. 4.
Sawing machine. A. E. De Koning. 1,780,176; Nov. 4.
Sawing machine, Metal-. C. Rasmussen. 1,780,439; Nov. 4.
Scale, Weighing. E. F. Ulrich. 1,780,411; Nov. 4.
Scraper, Power-operated. H. M. Pursel. 1,780,401; Nov. 4.
Screen: *See*—
Wall screen. Window screen.
Screen. P. G. Johnson. 1,780,823; Nov. 4.

Screen for windows, windshields, and the like. G. A. Dickson. 1,780,871; Nov. 4.
Screw driver. B. G. Jansson. 1,780,785; Nov. 4.
Seal for stern bearings for propeller shafts. C. E. Ward. 1,780,804; Nov. 4.
Separator: *See*—
Dust separator. Sludge separator.
Separator. E. F. White. 1,780,774; Nov. 4.
Setting means for conveying mechanism. J. S. Da Costa. 1,780,224; Nov. 4.
Sewing machines, Stitch-forming mechanism for. W. Myers. 1,780,309; Nov. 4.
Shade fixtures, Mounting for. R. E. Moore. 1,780,271; Nov. 4.
Sharpener, Pencil. W. Benczalski. 1,780,371; Nov. 4.
Sharpening machine, Circular-saw-. J. F. Pribnow and E. F. Mitchell. 1,780,886; Nov. 4.
Shears: *See*—
Motor-driven shears.
Sheet-separating apparatus. F. D. Kinney. 1,780,195; Nov. 4.
Shipping device. F. L. Seeley and C. L. Snyder. 1,780,277; Nov. 4.
Shipping device. C. L. Snyder 1,780,317–18; Nov. 4.
Shock-absorbing mechanism, Friction. W. H. Miner. 1,780,358; Nov. 4.
Shock-absorbing strut. J. F. Wallace. 1,780,659; Nov. 4.
Shock-absorbing strut for aircraft. J. F. Wallace. 1,780,660; Nov. 4.
Shock loading or unloading machine. J. W. Jackson. 1,780,299; Nov. 4.
Shoe. F. W. Ellington. Des. 82,416–18; Nov. 4.
Shoe. F. W. Ellington. Des. 82,469; Nov. 4.
Shoe, Baby's. P. Klauer. Des. 82,434; Nov. 4.
Shoes, Making. W. J. Kelly. 1,780,650; Nov. 4.
Shovel: *See*—
Toy electrically-operated shovel.
Shovel with differential thrust, Rope-thrusting. M. L. Fykse. 1,780,351; Nov. 4.
Show case. O. M. Wolff. 1,780,512; Nov. 4.
Signal-receiving apparatus, Frequency-responsive. W. Brückel and R. Schimpf. 1,780,669; Nov. 4.
Silk and the like, Manufacture of artificial. W. P. Dreaper. 1,780,346; Nov. 4.
Sink mine. K. O. R. Johansson. 1,780,592; Nov. 4.
Ski tie. B. With. 1,780,511; Nov. 4.
Sludge burner, Acid-. F. J. McDevitt. 1,780,653; Nov. 4.
Sludge separator. A. Nyrop. 1,780,655; Nov. 4.
Smoker's pipe. W. E. Copithorn. 1,780,866; Nov. 4.
Snap-on clip. W. F. Chadbourne. 1,780,169; Nov. 4.
Soap cake and making same. R. S. Blair. 1,780,330; Nov. 4.
Sock, Boot and shoe. L. S. Williams. 1,780,574; Nov. 4.
Socket, Electric-lamp. J. Weber. Des. 82,465–7; Nov. 4.
Socket, Electric-light. S. E. McAdams, H. P. Skaggs, and J. T. Singhurst. 1,780,832; Nov. 4.
Socket for tubes. W. C. MacFadden. 1,780,778; Nov. 4.
Solution of cellulose derivatives. A. Knorr. 1,780,883; Nov. 4.
Sound recording and reproducing apparatus. E. W. Kellogg. 1,780,681; Nov. 4.
Sound-reproducing apparatus, Continuous. L. J. Andres. 1,780,414; Nov. 4.
Sound-reproducing machine. G. Kende. 1,780,194; Nov. 4.
Sound-reproducing mechanism for radios. A. M. Kennedy. 1,780,788; Nov. 4.
Sound waves, Apparatus for radiating. R. D. Fay. 1,780,349; Nov. 4.
Speed-change mechanism for transmission gearing, Engine-clutch-control-actuated. E. R. Burtnett. 1,780,460; Nov. 4.
Speed transmission, Variable-. S. B. and B. E. Gold. 1,780,475; Nov. 4.
Splash guard for road vehicles, Lateral. W. Burns. 1,780,640; Nov. 4.
Spline shafts, Finishing. F. T. Ellis. 1,780,747; Nov. 4.
Spoon or similar article. A. H. Staf. Des. 82,457; Nov. 4.
Spray-tank agitator. E. L. O'Hara. 1,780,500; Nov. 4.
Spring air gun. E. S. Roe. 1,780,541; Nov. 4.
Sprinkler: *See*—
Water sprinkler.
Sprinkler. H. Jenkins. 1,780,233; Nov. 4.
Stacker, Shingle. E. C. Otis. 1,780,716; Nov. 4.
Stanchion. C. F. Hanson. 1,780,187; Nov. 4.
Stand: *See*—
Display stand.
Stand. C. E. Anderson. 1,780,163; Nov. 4.
Stand for a hand telephone, Desk. L. Bernhard. Des. 82,414; Nov. 4.
Stand for rotatable balances, Adjustable. W. P. Jenny. 1,780,158; Nov. 4.
Stapling machine. A. H. Maynard. 1,780,530; Nov. 4.
Stay, Back-part. W. J. De Witt. 1,780,177; Nov. 4.
Stays or rivets in ball bearings, Riveting. G. O. Hodge. 1,780,189; Nov. 4.
Steam boiler. H. J. Kerr. 1,780,619; Nov. 4.
Steam engine. W. A. Webster. 1,780,324; Nov. 4.
Steam generator. H. H. Baumgartner. 1,780,220; Nov. 4.
Steam or vapor generator. L. S. Lanterman. 1,780,529; Nov. 4.
Steam-turbine engine, Reversible. C. Bennett. 1,780,458; Nov. 4.
Steaming iron, Self-. W. B. Klaren. 1,780,236; Nov. 4.
Stencil sheets, Backing for. S. Horli. 1,780,391; Nov. 4.
Stoker, Underfeed. R. S. Riley and J. H. McElroy. 1,780,796; Nov. 4.
Stove, Brooder. G. T. Markey. 1,780,430; Nov. 4.
Stove, Liquid-fuel cook. L. D. Fortier. 1,780,421; Nov. 4.
Superheater bracket. E. A. Hildebrandt and C. McDonaugh. 1,780,188; Nov. 4.
Superphosphate manufacture, Double-. W. B. King. 1,780,620; Nov. 4.
Support and scriber, Blowtorch. R. B. Cregger. 1,780,814; Nov. 4.
Support, Concrete-reenforcement. P. T. Coons and G. H. Rose. 1,780,463; Nov. 4.
Support for lathes, Tool. E. J. Svenson. 1,780,606–7; Nov. 4.
Support, Plant-pot. W. Smith. 1,780,279; Nov. 4.
Support, Rubber engine. C. R. Short. 1,780,724; Nov. 4.
Switch: *See*—
Electric switch. Electrical switch.
Switch alarm, Adjustable high and low pressure. W. C. Elliott and E. S. Henry. 1,780,179; Nov. 4.
Switch and plug connecter, Combination thermostatic. P. A. Peterson. 1,780,631; Nov. 4.
Switch for radioreceivers. V. O. Syester. 1,780,690; Nov. 4.
Switch plug, Fusible. L. A. M. Phelan. 1,780,313; Nov. 4.
Synchronizing apparatus. H. Bany and G. R. McDonald. 1,780,667; Nov. 4.
Synchronous motor, Self-starting. P. P. Horni. 1,780,648; Nov. 4.
Table: *See*—
Automobile table. Folding table.
Table. A. P. Wagner. 1,780,254; Nov. 4.
Tabulating machine. W. W. Lasker. 1,780,621; Nov. 4.
Tabulating machine. M. Lebeis. 1,780,884; Nov. 4.
Tag, Price. F. Kohnle. 1,780,488; Nov. 4.
Tag, Price-marking. F. Kohnle. 1,780,753; Nov. 4.
Tally. C. C. Harris. 1,780,878; Nov. 4.
Tank: *See*—
Glass tank. Water tank.
Tap for dancing slippers or shoes. W. J. Haney. 1,780,230; Nov. 4.
Tassel-making art. S. J. Rosenthal. 1,780,602; Nov. 4.
Taximeter. J. A. Costuma, H. E. Bauer, and C. L. Lovercheck. 1,780,780; Nov. 4.
Tea cartridge. B. Hirschhorn. 1,780,484; Nov. 4.
Telegraphing in Morse code and apparatus therefor. R. L. A. Schoemaker. 1,780,507; Nov. 4.
Telephone and telegraph circuit. P. E. Ritter. 1,780,244; Nov. 4.
Telephone and telegraph system. L. C. Roberts. 1,780,245; Nov. 4.
Telephone apparatus for automatic telephone exchanges, Coin-operated. W. Kruse. 1,780,754; Nov. 4.
Telephone head set. A. Y. Dodge. 1,780,178; Nov. 4.
Telephone system. T. F. Crocker. 1,780,617; Nov. 4.
Terminal hook, Cable-. K. Gleason. 1,780,184; Nov. 4.
Testing machine. A. J. Amsler. 1,780,696; Nov. 4.
Textile materials, Degreasing. W. Pfaffendorf. 1,780,885; Nov. 4.
Thermostatic apparatus. H. G. Leupold. 1,780,758; Nov. 4.
Thread-rolling machine. S. A. Swanson. 1,780,608; Nov. 4.
Tie: *See*—
Bow tie. Ski tie.
Time-stamping mechanism, Portable. E. Salustri and G. Salustri. 1,780,770; Nov. 4.
Tire. J. J. McDonald. Des. 82,441; Nov. 4.
Tire-inflation device. S. M. Weisberg. Des. 82,468; Nov. 4.
Tire, Vehicle. C. M. Manly. 1,780,306; Nov. 4.
Tool, Combination. A. Rutquist. 1,780 506; Nov. 4.
Tool, Portable. J. M. Crowe. 1,780,173; Nov. 4.
Tool, Well. L. S. Hamer and J. Q. Little. 1,780,482; Nov. 4.
Tool with radial cage, cutter, and guide, Trepan. E. Williams. 1,780,325; Nov. 4.
Top. M. Alland. 1,780,547; Nov. 4.
Toy. R. Guyot. 1,780,385; Nov. 4.
Toy. W. R. Williams. 1,780,855; Nov. 4.
Toy, Electrical. M. L. Jurgensen. 1,780,487; Nov. 4.
Toy electrically-operated shovel. A. P. Williams. 1,780,806; Nov. 4.
Toy, Mechanical. C. Katagiri. 1,780 557; Nov. 4.
Toy parachute. P. Anderson. 1,780,734; Nov. 4.
Toy ship. L. H. Baxter. Des. 82,411; Nov. 4.
Toy top. J. M. Krause. Des. 82,435; Nov. 4.
Toy, vehicle. L. Marx. Des. 82,440; Nov. 4.
Track installation to control railway trains. T. E. and J. E. Clark. 1,780,416; Nov. 4.
Traction lug. B. Arps. 1,780,513; Nov. 4.
Tractor, Hillside. W. G. Rogers. 1,780,799; Nov. 4.
Traffic-controlling apparatus, Railway. G. W. Baughman. 1,780,737; Nov. 4.
Trailer-frame structure. L. E. Williams. 1,780,776; Nov. 4.
Train-control equipment, Apparatus for testing automatic. C. F. Stoltz and G. W. Ferling. 1,780,726; Nov. 4.
Transmission, Automatic. H. E. Christie and K. W. Couse. 1,780,293; Nov. 4.

Transmission mechanism, Electromagnetic. C. F. Ahlm. 1,780,150; Nov. 4.
Tray for refrigerating units. F. C. Geller. 1,780,422; Nov. 4.
Tray or similar article, Ash. A. von Frankenberg. Des. 82,463; Nov. 4.
Trimmer: *See*—
Lumber trimmer.
Tripod, Camera. I. I. Green. 1,780,383; Nov. 4.
Trousers. M. Liberman. 1,780,356; Nov. 4.
Trousers hanger. K. Francsics. 1,780,153; Nov. 4.
Troweling machine for concrete or other plastic material. J. E. Kirkham. 1,780,427; Nov. 4.
Truss brace. L. F. Crowley. 1,780,579; Nov. 4.
Tube: *See*—
Rectifying tube. Vacuum tube.
Tubes and analogous articles with lead. Device for treating rough. G. de Dudzeele. 1,780,870; Nov. 4.
Turning machines, Feed-control means for. C. L. Mattison. 1,780,203; Nov. 4.
Type bar, Compound. B. K. F. Ewald. 1,780,674; Nov. 4.
Typewriter punch with column cut-out. H. A. Weinlich. 1,780,610; Nov. 4.
Typewriting machine. D. Y. Read. 1,780,537; Nov. 4.
Typographical machines, Safety device for. A. G. Sperry. 1,780,848; Nov. 4.
Upholstery device. F. Glazer. 1,780,474; Nov. 4.
Vacuum fuel-feed device. J. L. Andrews. 1,780,290; Nov. 4.
Vacuum tube. B. G. Blackman. 1,780,698; Nov. 4.
Valve. R. W. Leach and W. H. Bateman. 1,780,160; Nov. 4.
Valve. R. W. Leach and W. H. Bateman. 1,780,828; Nov. 4.
Valve. H. T. Melling. 1,780,562; Nov. 4.
Valve. J. R. Replogle. 1,780,242; Nov. 4.
Valve and constructing the same, Refrigerating. A. J. Kusel. 1,780,593; Nov. 4.
Valve bags, Forming. J. C. Redington. 1,780,720; Nov. 4.
Valve device, Triple-. T. H. Thomas. 1,780,321; Nov. 4.
Valve for rock drills, Hole-. Cleaning. L. L. Richardson. 1,780,440; Nov. 4.
Valve mechanism for rock drills. W. A. Smith, sr., and W. A. Smith, jr. 1,780,725; Nov. 4.
Valve-operating mechanism. J. F. Adam. 1,780,856; Nov. 4.
Valve, Plate. L. R. Huff. 1,780,524; Nov. 4.
Valve, Relief. H. G. Holmes. 1,780,782; Nov. 4.
Valve, Sanitary. J. N. Jacobsen. 1,780,525; Nov. 4.
Valve unit, Hydraulic control-. R. M. Galloway and R. A. Schafer. 1,780,471; Nov. 4.
Varnishes, Applying nitrocellulose. H. F. Schulz. 1,780,844; Nov. 4.
Vault, Burial. G. W. Janda and R. C. Plaggmier. 1,780,193; Nov. 4.
Vegetable topper. R. Hahn. 1,780,820; Nov. 4.
Vehicle body construction. S. Paul. 1,780,717; Nov. 4.
Vehicle body construction, Convertible. R. S. Roberts and J. Votypka. 1,780,797; Nov. 4.
Vehicle, Dump-body. L. E. Williams. 1,780,775; Nov. 4.
Vehicle, Motor. A. Moorhouse. 1,780,270; Nov. 4.
Vehicle, Motor. J. N. Parker. 1,780,599; Nov. 4.
Vehicle, Motor. M. Tibbetts. 1,780,281; Nov. 4.
Veneer and shingle machines, Feed-roll mechanism for. J. E. Eckersley. 1,780,582; Nov. 4.
Ventilator. A. Maeulen. 1,780,491; Nov. 4.
Ventilator construction for window frames. R. T. Axe. 1,780,665; Nov. 4.
Vessels, Apparatus or agitating the contents of storage. W. H. Brooks. 1,780,333; Nov. 4.
Vibratory apparatus. C. Grosse. 1,780,876; Nov. 4.
Wall board, Laminated. P. W. Codwise. 1,780,743; Nov. 4.
Wall form. C. M. Showers. 1,780,366; Nov. 4.
Warming device. H. M. Jacobs. 1,780,649; Nov. 4.
Warper. H. A. Davis. 1,780,891; Nov. 4.
Warper. C. H. Draper and E. H. Trevett. 1,780,892; Nov. 4.
Washer: *See*—
Golf-ball washer.
Washer. J. C. Pewther. 1,780,839; Nov. 4.
Washing device. F. A. Hahn. 1,780,155; Nov. 4.
Water-circulating system, Automatically-controlled. A. C. Durdin, jr. 1,780,379; Nov. 4.
Water craft, Steering. H. Scott-Paine. 1,780,767; Nov. 4.
Water heater, Hot-. L. B. Hyde. 1,780,426; Nov. 4.
Water motor. F. Fachnie. 1,780,584; Nov. 4.
Water-regulating device. W. R. Hendrix. 1,780,589; Nov. 4.
Water-soluble product derived from the fatty acids occurring in wool fat and preparing the same. A. Thauss and G. Mauthe. 1,780,252; Nov. 4.
Water sprinkler. E. C. Brickhill. 1,780,332; Nov. 4.
Water tank, Hot-. G. F. Schwartz. 1,780,316; Nov. 4.
Wax compositions, Production of. W. Pungs and M. Jahrstorfer. 1,780,633; Nov. 4.
Weed cutter. J. Cadwallader. 1,780,741; Nov. 4.
Weighing machine, Coin-controlled. H. S. Benjamin. 1,780,165; Nov. 4.
Weight indicator. R. A. Lincoln. 1,780,238; Nov. 4.
Welding, Electric flash. W. F. Heineman. 1,780,297; Nov. 4.
Well screen. M. F. Kettler. 1,780,882; Nov. 4.
Wheel: *See*—
Polishing wheel.
Wheel. L. L. Schooling. 1,780,404; Nov. 4.
Wheel and making the same, Metal. E. E. Einfeldt. 1,780,704; Nov. 4.
Wheel assembly. P. L. Tenney. 1,780,370; Nov. 4.
Wheel-assembly device, Wire-. M. W. H. Wilson. 1,780,215; Nov. 4.
Wheel-flange lubricator. J. W. Coppage. 1,780,464; Nov. 4.
Wheel of passenger aerial cableways, Running. M. Müller 1,780,027; Nov. 4.
Wheel puller. W. Uebelhoer. 1,780,888; Nov. 4.
Wind and waterproof fixture. R. A. Flint. 1,780,420; Nov. 4.
Window lock, Ventilating. A. Primas. 1,780,274; Nov. 4.
Window screen. G. W. Byars. 1,780,461; Nov. 4.
Wiper, Oil-gauge-rod. J. Ruffing, sr. 1,780,505; Nov. 4.
Wireworking machine. W. M. Birch. 1,780,374; Nov. 4.
Zinc-oxide content of lithopone, Reducing. A. B. Laftman. 1,780,559; Nov. 4.

CLASSIFICATION OF PATENTS

ISSUED NOVEMBER 4, 1930

NOTE.—First number—class, second number—subclass, third number—patent number

1— 3: 1,780,530
2— 4: 1,780,801
78: 1,780,798
128: 1,780,692
154: 1,780,418
198: 1,780,887
227: 1,780,356
247: 1,780,874
253: 1,780,204
257: 1,780,859
4— 37: 1,780,810
169: 1,780,615
5— 61: 1,780,399
185: 1,780,792
8— 5: 1,780,320
1,780,616
6: 1,780,314
11— 1: 1,780,296
12— 47: 1,780,841
128.1: 1,780,177
142: 1,780,650
14— 73: 1,780,622
15— 21: 1,780,850
59: 1,780,451
160: 1,780,340
194: 1,780,221
210: 1,780,505
16— 46: 1,780,761
100: 1,780,755
18— 2: 1,780,769
15: R. 17,854
53: 1,780,604
19— 13: 1,780,480
143: 1,780,455
20— 3.5: 1,780,251
40.5: 1,780,502
65: 1,780,420
22— 10: 1,780,470
95: 1,780,787
136: 1,780,514
23— 188: 1,780,821
250: 1,780,198
24— 30.5: 1,780,880
49: 1,780,532
71: 1,780,824
92: 1,780,555
123: 1,780,184
261: 1,780,893
25— 85: 1,780,629
131: 1,780,661
27— 2: 1,780,171
28— 2: 1,780,602
38: 1,780,891
1,780,892
29— 38: 1,780,889
67: 1,780,325
73: 1,780,439
86: 1,780,888
87: 1,780,215
30— 1: 1,780,276
25: 1,780,549
33— 91: 1,780,506
121: 1,780,237
128: 1,780,647
187: 1,780,849
216: 1,780,501
34— 21: 1,780,649
26: 1,780,182
36— 43: 1,780,574
37— 122: 1,780,239
128: 1,780,401
142: 1,780,397
40— 23: 1,780,488
1,780,753
28: 1,780,773
32: 1,780,651
125: 1,780,305
132: 1,780,373
146: 1,780,163
41— 3.5: 1,780,391
15: 1,780,181
26: 1,780,645
42— 16: 1,780,521
44— 14: 1,780,205
45— 6: 1,780,287
11: 1,780,394
51: 1,780,254
45— 51: 1,780,706
46— 14: 1,780,385
37: 1,780,855
40: 1,780,557
46: 1,780,230
1,780,541
49: 1,780,487
52: 1,780,734
38: 1,780,279
48— 180: 1,780,626
202: 1,780,759
49— 3: 1,780,590
54: 1,780,164
55: 1,780,550
81: 1,780,246
51— 32: 1,780,211
43: 1,780,288
209: R. 17,853
248: 1,780,868
278: 1,780,747
53— 3: 1,780,484
1,780,751
56— 10: 1,780,180
1,780,748
54: 1,780,235
83: 1,780,644
97: 1,780,840
107: 1,780,820
146: 1,780,688
56— 20: 1,780,481
41: 1,780,497
330: 1,780,376
60— 54: 1,780,613
73: 1,780,226
61— 78: 1,780,807
83: 1,780,586
62— 3: 1,780,442
11: 1,780,422
19: 1,780,765
89.5: 1,780,512
95: 1,780,243
116: 1,780,425
119.5: 1,780,272
174: 1,780,250
64— 96: 1,780,727
66— 96: 1,780,689
117: 1,780,790
133: 1,780,756
135: 1,780,831
149: 1,780,768
156: 1,780,328
67— 29: 1,780,509
68— 3: 1,780,708
5: 1,780,155
18: 1,780,210
26: 1,780,236
30: 1,780,192
70— 24: 1,780,473
126: 1,780,762
71— 7: 1,780,620
72— 7: 1,780,193
16: 1,780,269
67: 1,780,707
118: 1,780,406
1,780,731
73— 51: 1,780,822
120: 1,780,598
74— 1: 1,780,854
1,780,856
5: 1,780,713
14: 1,780,365
1,780,877
21: 1,780,475
34: 1,780,241
1,780,293
39: 1,780,270
1,780,869
50: 1,780,578
53: 1,780,423
57: 1,780,654
59: 1,780,858
81: 1,780,460
97: 1,780,540
99: 1,780,281
1,780,745
108: 1,780,183
74— 108: 1,780,223
1,780,829
109: 1,780,697
75— 14: 1,780,833
18: 1,780,323
76— 40: 1,780,886
101: 1,780,805
77— 75: 1,780,240
78— 49: 1,780,189
80— 7: 1,780,608
82— 24: 1,780,606
1,780,607
40: 1,780,390
83— 73: 1,780,733
91: 1,780,201
84— 259: 1,780,670
273: 1,780,361
376: 1,780,543
377: 1,780,368
85— 50: 1,780,839
87— 6: 1,780,885
9: 1,780,157
1,780,315
12: 1,780,252
1,780,632
19: 1,780,633
23: 1,780,330
88— 16.8: 1,780,311
20: 1,780,291
23: 1,780,231
89— 40: 1,780,518
90— 1: 1,780,350
91— 12.6: 1,780,870
18: 1,780,342
45: 1,780,738
51: 1,780,341
68: 1,780,375
1,780,793
1,780,844
70: 1,780,566
92— 9: 1,780,750
11: 1,780,347
1,780,638
1,780,842
13: 1,780,539
24: 1,780,845
27: 1,780,863
49: 1,780,526
54: 1,780,623
93— 35: 1,780,720
94— 13: 1,780,588
39: 1,780,463
45: 1,780,427
95— 34: 1,780,489
36: 1,780,191
73: 1,780,677
1,780,678
76: 1,780,701
81.5: 1,780,384
96— 25: 1,780,515
97— 56: 1,780,587
68: 1,780,741
98— 93: 1,780,665
99: 1,780,491
99— 14: 1,780,267
100— 48: 1,780,218
101— 4: 1,780,890
26: 1,780,715
32: 1,780,496
1,780,560
93: 1,780,674
115: 1,780,260
350: 1,780,695
363: 1,780,664
102— 3: 1,780,592
24: 1,780,214
29: 1,780,624
103— 44: 1,780,336
87: 1,780,490
113: 1,780,679
123: 1,780,614
137: 1,780,217
232: 1,780,808
236: 1,780,290
105— 44: 1,780,457
62: 1,780,516
172: 1,780,466
105— 355: 1,780,730
368: 1,780,277
1,780,282
1,780,317
107— 21: 1,780,680
108— 28: 1,780,553
110— 44: 1,780,796
112— 159: 1,780,309
251: 1,780,742
113— 22: 1,780,729
46: 1,780,432
114— 163: 1,780,767
115— 19: 1,780,467
34: 1,780,843
41: 1,780,552
118— 1: 1,780,346
119— 15: 1,780,577
32: 1,780,430
56: 1,780,392
147: 1,780,187
148: 1,780,367
120— 14: 1,780,207
15: 1,780,581
18: 1,780,405
42: 1,780,527
93: 1,780,371
108: 1,780,546
121— 10: 1,780,440
18: 1,780,725
41: 1,780,329
134: 1,780,657
122— 4: 1,780,653
156: 1,780,316
169: 1,780,576
235: 1,780,220
1,780,283
1,780,284
1,780,285
1,780,303
250: 1,780,529
332: 1,780,683
360: 1,780,619
390: 1,780,435
123— 2: 1,780,642
14: 1,780,443
32: 1,780,499
52: 1,780,519
53: 1,780,454
61: 1,780,175
73: 1,780,635
171: 1,780,809
173: 1,780,388
1,780,763
174: 1,780,517
125— 13: 1,780,441
126— 362: 1,780,379
128— 57: 1,780,479
64: 1,780,876
129— 13: 1,780,835
16: 1,780,227
16.7: 1,780,735
23: 1,780,429
28: 1,780,354
1,780,861
227: 1,780,800
131— 10: 1,780,389
12: 1,780,682
1,780,866
51: 1,780,258
1,780,591
132— 11: 1,780,206
36.2: 1,780,449
53: 1,780,766
83: 1,780,736
84: 1,780,757
133— 3: 1,780,819
134— 1: 1,780,657
26: 1,780,652
60: 1,780,154
78: 1,780,559
79: 1,780,883
137— 18: 1,780,597
21: 1,780,605
69: 1,780,525
137— 70: 1,780,436
139: 1,780,387
1,780,538
139— 4: 1,780,740
92: 1,780,786
140— 64: 1,780,609
71: 1,780,374
93: 1,780,815
141— 1: 1,780,637
7: 1,780,772
9: 1,780,452
142— 10: 1,780,203
143— 41: 1,780,362
43: 1,780,173
1,780,174
46: 1,780,176
144— 31: 1,780,721
55: 1,780,359
180: 1,780,582
230: 1,780,170
1,780,846
293: 1,780,366
145— 50: 1,780,785
146— 121: 1,780,247
206: 1,780,453
148— 8: 1,780,594
1,780,595
21.4: 1,780,261
150— 1.5: 1,780,802
151— 31: 1,780,675
152— 1: 1,780,306
14: 1,780,169
1,780,834
1,780,564
153— 10: 1,780,704
154— 2: 1,780,208
1,780,743
28: 1,780,739
155— 27: 1,780,468
179: 1,780,474
193: 1,780,570
156— 14: 1,780,492
1,780,823
1,780,871
24: 1,780,271
31: 1,780,556
39: 1,780,461
158— 28: 1,780,357
32: 1,780,783
33: 1,780,152
61: 1,780,421
76: 1,780,571
87: 1,780,273
91: 1,780,219
92: 1,780,185
116: 1,780,596
164— 56: 1,780,817
113: 1,780,610
166— 5: 1,780,882
17: 1,780,428
167— 35: 1,780,196
38: 1,780,197
170— 133: 1,780,584
162: 1,780,431
171— 118: 1,780,667
206: 1,780,456
252: 1,780,702
172— 36: 1,780,339
1,780,867
233: 1,780,395
239: 1,780,150
1,780,380
246: 1,780,664
275: 1,780,648
278: 1,780,881
281: 1,780,542
173— 13: 1,780,533
1,780,564
244: 1,780,722
269: 1,780,289
328: 1,780,778
355: 1,780,434
361: 1,780,851
362: 1,780,832
174— 177: 1,780,363
1,780,600
175— 41.5: 1,780,172
183: 1,780,726
294: 1,780,668
364: 1,780,827
176— 3: 1,780,618
177— 311: 1,780,673
329: 1,780,355
336: 1,780,568
353: 1,780,711
178— 6: 1,780,364
1,780,572
267: 1,780,507
179— 4: 1,780,244
1,780,245
5: 1,780,617
6.3: 1,780,754
100.3: 1,780,681
100.4: 1,780,414
1,780,437
100.41: 1,780,378
1,780,409
1,780,419
109: 1,780,788
115.5: 1,780,349
156: 1,780,178
171: 1,780,611
1,780,671
180— 21: 1,780,799
22: 1,780,599
33: 1,780,705
53: 1,780,646
73: 1,780,370
79: 1,780,641
183— 3: 1,780,464
7: 1,780,465
188— 83: 1,780,194
152: 1,780,200
1,780,558
204: 1,780,498
218: 1,780,284
189— 78: 1,780,852
88: 1,780,862
192— 56: 1,780,495
68: 1,780,222
88: 1,780,199
107: 1,780,710
110: 1,780,749
133: 1,780,528
194— 13: 1,780,292
35: 1,780,165
196— 4: 1,780,342
1,780,344
1,780,345
24: 1,780,873
53: 1,780,536
73: 1,780,286
197— 63: 1,780,537
151: 1,780,630
198— 35: 1,780,716
37: 1,780,486
40: 1,780,224
127: 1,780,493
189: 1,780,352
203: 1,780,307
199— 51: 1,780,816
52: 1,780,848
200— 2: 1,780,413
3: 1,780,804
1,780,895
6: 1,780,703
11: 1,780,690
22: 1,780,771
33: 1,780,377
38: 1,780,752
52: 1,780,488
59: 1,780,312
83: 1,780,179
105: 1,780,612
113: 1,780,202
122: 1,780,302
137: 1,780,758
138: 1,780,462
139: 1,780,631
142: 1,780,313
149: 1,780,684

200— 152: 1,780,216
166: 1,780,415
202— 143: 1,780,803
158: 1,780,563
204— 1: 1,780,212
1,780,213
1,780,535
206— 44: 1,780,760
46: 1,780,558
56: 1,780,508
58: 1,780,275
65: 1,780,268
208— 184: 1,780,511
209— 173: 1,780,830
210— 148: 1,780,791
165: 1,780,663
1,780,774
166: 1,780,723
198: 1,780,777
199: 1,780,732
211— 24: 1,780,381
43: 1,780,872
101: 1,780,446
213— 32: 1,780,358
214— 15: 1,780,322
82: 1,780,299
135: 1,780,351
146: 1,780,806
215— 6: 1,780,728
57: 1,780,875
217— 12: 1,780,709
26.5: 1,780,264
70: 1,780,544
219— 10: 1,780,297
39: 1,780,426
220— 29: 1,780,534
55: 1,780,575
75: 1,780,232

221— 102: 1,780,601
223— 18.3: 1,780,744
18.6: 1,780,228
67: 1,780,153
225— 28: 1,780,687
226— 15: 1,780,424
84: 1,780,327
85: 1,780,639
228— 61: 1,780,263
64: 1,780,386
230— 13: 1,780,583
55: 1,780,335
58: 1,780,337
1,780,338
177: 1,780,784
178: 1,780,398
256: 1,780,789
233— 7: 1,780,655
234— 1: 1,780,603
1.5: 1,780,567
235— 30: 1,780,780
58: 1,780,685
61: 1,780,621
1,780,884
89: 1,780,494
135: 1,780,770
236— 9: 1,780,393
48: 1,780,417
238— 283: 1,780,396
330: 1,780,412
1,780,444
1,780,714
379: 1,780,331
240— 1: 1,780,666
6.4: 1,780,253
7.1: 1,780,548
10.5: 1,780,746
1,780,779

240— 62: 1,780,445
1,780,865
78: 1,780,161
85: 1,780,847
241— 7: 1,780,523
242— 22: 1,780,304
55: 1,780,628
55.5: 1,780,259
64: 1,780,469
70: 1,780,510
2: 1,780,811
244— 3: 1,780,448
1,780,569
12: 1,780,298
1,780,813
1,780,838
15: 1,780,672
16: 1,780,580
21: 1,780,190
25: 1,780,450
1,780,561
1,780,565
29: 1,780,410
31: 1,780,812
245— 5: 1,780,352
246— 34: 1,780,416
63: 1,780,737
127: 1,780,520
135: 1,780,658
163: 1,780,372
247— 18: 1,780,696
248— 14.2: 1,780,724
16: 1,780,719
17: 1,780,162
29: 1,780,308
34: 1,780,188
46: 1,780,225
47: 1,780,383

248— 47: 1,780,585
250— 11: 1,780,369
17: 1,780,167
27.5: 1,780,504
1,780,698
36: 1,780,229
39: 1,780,669
251— 51: 1,780,828
62: 1,780,160
102: 1,780,562
155: 1,780,242
144: 1,780,593
252— 6: 1,780,634
253— 56: 1,780,324
70: 1,780,458
254— 43: 1,780,477
126: 1,780,265
1,780,266
136: 1,780,700
255— 72: 1,780,447
257— 43: 1,780,476
1,780,478
1,780,781
1,780,837
191: 1,780,319
205: 1,780,794
224: 1,780,300
1,780,301
236: 1,780,294
256: 1,780,280
259— 56: 1,780,333
66: 1,780,360
96: 1,780,166
1,780,500
97: 1,780,551
98: 1,780,853
260— 3: 1,780,636
11: 1,780,643

260— 16: 1,780,545
25: 1,708,860
32: 1,780,836
1,780,879
101: 1,780,151
130: 1,780,326
1,780,334
261— 62: 1,780,522
72: 1,780,310
84: 1,780,255
114: 1,780,438
1,780,818
262— 28: R. 17,555
265— 1: 1,780,158
13: 1,780,696
47: 1,780,238
49: 1,780,411
266— 23: 1,780,814
42: 1,780,485
267— 64: 1,780,531
1,780,659
1,780,660
271— 18: 1,780,195
55: 1,780,348
273— 77: 1,780,625
136: 1,780,256
147: 1,780,547
277— 21: 1,780,782
46: 1,780,524
1,780,589
279— 16: 1,780,554
280—33.12: 1,780,503
33.15: 1,780,186
106: 1,780,776
156: 1,780,640
282— 16: 1,780,295
283— 49: 1,780,878
285— 58: 1,780,795

285— 70: 1,780,693
193: 1,780,712
203: 1,780,402
286— 11: 1,780,248
1,780,249
33: 1,780,764
290— 2: 1,780,691
292— 270: 1,780,662
272: 1,780,403
342: 1,780,274
293— 55: 1,780,209
294— 86: 1,780,482
102: 1,780,699
295— 31: 1,780,627
296— 16: 1,780,718
28: 1,780,717
48: 1,780,797
97: 1,780,400
138: 1,780,257
298— 12: 1,780,775
299— 18: 1,780,233
24: 1,780,407
1,780,408
69: 1,780,332
83: 1,780,573
144: 1,780,168
300— 2: 1,780,278
301— 39: 1,780,404
303— 39: 1,780,321
304— 5: 1,780,579
305— 10: 1,780,513
306— 30: 1,780,825
1,780,826
308— 2: 1,780,262
134: 1,780,804
168: 1,780,459
312— 189: 1,780,353

U. S. GOVERNMENT PRINTING OFFICE: 1930

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS

A. P. W. Paper Company, Inc. (See Albany Perforated Wrapping Paper Company.)

Adams, Arthur E., Denver, Colo. Maltless beverage. 277,463; Nov. 11; Serial No. 300,315; published Sept. 2, 1930. Class 45.

A-Gene Health Laboratories Co. (See Wieselman, Nathan.)

Albany Perforated Wrapping Paper Company, New York, N. Y., now, by change of name, A. P. W. Paper Company, Inc. Toilet paper. 277,370; Nov. 11; Serial No. 302,205; published Aug. 26, 1930. Class 37.

Alhambra Cigar & Cigarette Mfg. Co. (See Kuenzle & Streiff.)

Allcock Manufacturing Co., Ossining, N. Y. Medicated corn plasters. 277,281; Nov. 11; Serial No. 286,012; published Aug. 19, 1930. Class 6.

Allcock Manufacturing Co., Ossining, N. Y. Pills. 277,282; Nov. 11; Serial No. 286,009; published Aug. 19, 1930. Class 6.

Allcock Manufacturing Co., Ossining, N. Y. Pills. 277,283; Nov. 11; Serial No. 286,007; published Aug. 19, 1930. Class 6.

"Altek," Société Anonyme Compagnie d'Etude et d'Exploitation d'Appareils Frigorifiques pour les Transports, Antwerp, Belgium. Refrigerating plants and apparatus both stationary and transportable. 277,201; Nov. 11; Serial No. 303,619; published Aug. 26, 1930. Class 31.

American Chicle Company, Long Island City, N. Y. Chewing gum. 277,211; Nov. 11; Serial No. 302,882; published Aug. 26, 1930. Class 46.

American Cigar Company, Jersey City, N. J., and New York, N. Y. Cigars. 277,347–9; Nov. 11; Serial Nos. 295,596–8; published Aug. 26, 1930. Class 17.

American Ferment Company. (See Cummings, James H.)

American Hard Rubber Company, Hempstead and New York, N. Y. Etching baskets, etching frames and dipping baskets. 277,277; Nov. 11; Serial No. 303,364; published Aug. 26, 1930. Class 2.

American Lending Library, Inc., College Point, N. Y. Library outfit. 277,424; Nov. 11; Serial No. 300,457; published Aug. 26, 1930. Class 50.

American Steel Chase Co., New York, N. Y. Printers' supplies. 277,310; Nov. 11; Serial No. 303,268; published Sept. 2, 1930. Class 23.

American Turpentine & Tar Company, Ltd., New Orleans, La. Fly repellent and soothing wound dressing. 277,179; Nov. 11; Serial No. 302,804; published Aug. 19, 1930. Class 6.

Apex Products Corporation, Chicago, Ill. Powdered insecticide. 277,174; Nov. 11; Serial No. 303,147; published Aug. 19, 1930. Class 6.

Arcturus Radio Company, Newark, N. J., now, by change of name, Arcturus Radio Tube Company. Electron emissive tubes and parts thereof. 277,341; Nov. 11; Serial No. 275,936; published Aug. 26, 1930. Class 21.

Arcturus Radio Tube Company. (See Arcturus Radio Company.)

Arcturus Radio Tube Company, Newark, N. J. Light-sensitive cells, radio detecting, rectifying, and amplifying tubes. 277,154; Nov. 11; Serial No. 302,367; published Aug. 26, 1930. Class 21.

Arcturus Radio Tube Company, Newark, N. J. Electron-emissive tubes and parts thereof. 277,351; Nov. 11; Serial No. 295,110; published Sept. 2, 1930. Class 21.

Ardie-Werk A. G., Nuremberg, Germany. Motor cycles. 277,343; Nov. 11; Serial No. 287,169; published Sept. 2, 1930. Class 19.

Armand Company, The, Des Moines, Iowa. Face powder. 277,473; Nov. 11; Serial No. 293,399; published Sept. 2, 1930. Class 6.

Arroyo, Thomas B., doing business as Hair Craft Laboratories, Chicago, Ill. Scalp ointment. 277,385; Nov. 11; Serial No. 301,781; published Aug. 19, 1930. Class 6.

Atlantic, Pacific & Gulf Oil Company, Kansas City, Mo. Lubricating oils and greases and gasoline. 277,150; Nov. 11; Serial No. 302,925; published Sept. 2, 1930. Class 15.

Automatic Sprinkler Corporation of America, Cleveland, Ohio. Automatic releasing devices, valves, connecting tubing, etc. 277,512; Nov. 11. Class 13.

Baash-Ross Tool Company, Incorporated, Los Angeles, Calif. Well-drilling tools and equipment. 277,317; Nov. 11; Serial No. 302,523; published Aug. 26, 1930. Class 23.

Babcock, Guilford C., Rockaway, N. J. Boxes and crates. 277,322; Nov. 11; Serial No. 302,229; published Aug. 26, 1930. Class 2.

Baker & Company, Inc., Newark, N. J. Preparations for electrodepositing metals of the platinum group. 277,356; Nov. 11; Serial No. 294,105; published Aug. 12, 1930. Class 6.

Balfour Guthrie & Company, San Francisco, Calif. Canned fruits, canned vegetables, etc. 277,215; Nov. 11; Serial No. 302,622; published Aug. 26, 1930. Class 46.

Balfour Guthrie & Company, San Francisco, Calif. Canned fruits, canned vegetables, etc. 277,216–17; Nov. 11; Serial Nos. 302,616–17; published Aug. 26, 1930. Class 46.

Balkeit Radio Company, North Chicago, Ill. Radio receiving sets. 277,260; Nov. 11; Serial No. 286,416; published Aug. 26, 1930. Class 21.

Banks, Thomas H., doing business as Banks' Products Co., Los Angeles, Calif. Medical composition. 277,242; Nov. 11; Serial No. 302,298; published Aug. 12, 1930. Class 6.

Barber, Frank W., doing business as Frank W. Barber Company, Stockton, Calif. Liquid shampoo. 277,307; Nov. 11; Serial No. 301,150; published Aug. 26, 1930. Class 6.

Bausch & Lomb Optical Company, Rochester, N. Y. Combined magnifier and paper weight. 277,186; Nov. 11; Serial No. 303,681; published Sept. 2, 1930. Class 26.

Bayer Products Company, Inc., The, New York, N. Y. Protective structural coating material. 277,407; Nov. 11; Serial No. 298,881; published Sept. 2, 1930. Class 12.

Bear-Stewart Co., Chicago, Ill. Mixture and topping for bakery and confectionery goods. 277,247; Nov. 11; Serial No. 292,790; published Aug. 26, 1930. Class 46.

Bell, Patrick F., Los Angeles, Calif. Citrus-fruit-juice beverage. 277,529; Nov. 11. Class 45.

Ben-Burk, Incorporated, Boston, Mass. Malt syrup. 277,298; Nov. 11; Serial No. 302,457; published Aug. 26, 1930. Class 46.

Benisch Brothers, Inc., Brooklyn, N. Y. Burial vaults. 277,266; Nov. 11; Serial No. 302,663; published Aug. 26, 1930. Class 2.

Bethlehem Steel Company, Bethlehem, Pa. Pig iron. 277,526; Nov. 11. Class 14.

Better Products Company Inc., Dallas, Tex. Rubber inner tubes, rubber inner-tube-patching material, etc. 277,415; Nov. 11; Serial No. 298,423; published Aug. 26, 1930. Class 35.

Beugen's Inc., Minneapolis, Minn. Preparation for the relief of colds, inflammations, etc. 277,274; Nov. 11; Serial No. 303,683; published Sept. 2, 1930. Class 6.

Birdsey Flour Mills, Macon, Ga. Poultry mash feed. 277,261; Nov. 11; Serial No. 303,316; published Aug. 26, 1930. Class 46.

Birdsey Flour Mills, Macon, Ga. Poultry scratch feed. 277,276; Nov. 11; Serial No. 303,315; published Aug. 26, 1930. Class 46.

Böhme, H. Th., A. G., Chemnitz, Germany. Chemical dye aids. 277,490; Nov. 11; Serial No. 299,545; published Sept. 2, 1930. Class 6.

Boiko, Earl, doing business as Chemco Distributing Co., Chicago, Ill. Cleaning agent. 277,475; Nov. 11; Serial No. 293,570; published Aug. 19, 1930. Class 6.

Broncholine Company. (See Zentz, M. E.)

Brooks Brothers, New York, N. Y. Collars. 277,513–23; Nov. 11. Class 39.

Brooks Brothers, New York, N. Y. Collars. 277,525; Nov. 11. Class 39.

Brooks, Helen, Inc., New York, N. Y. Face powder, rouge, lip stick, etc. 277,305; Nov. 11; Serial No. 301,800; published Aug. 19, 1930. Class 6.

Brower Manufacturing Company, Inc., Quincy, Ill. Fountains, feeders, canopy brooders, etc. 277,246; Nov. 11; Serial No. 301,240; published Aug. 26, 1930. Class 50.

Brown Durrell Co., Boston, Mass., and New York, N. Y. Hosiery. 277,257; Nov. 11; Serial No. 286,863; published Aug. 26, 1930. Class 39.

Brown, George C., & Company, Memphis, Tenn. Closet lining, flooring, shelving, etc. 277,220; Nov. 11; Serial No. 302,158; published Sept. 2, 1930. Class 12.

Bruning, Charles, Company, Inc., New York, N. Y. Paper. 277,412; Nov. 11; Serial No. 299,825; published Sept. 2, 1930. Class 26.

Bryant Park Electric Lamp Company, New York, N. Y. Lighting fixtures. 277,443; Nov. 11; Serial No. 300,611; published Sept. 2, 1930. Class 34.

Bulk Service Stations, Inc., Chicago, Ill. Motor-fuel oils and gas, lubricating oils, and lubricating greases. 277,429; Nov. 11; Serial No. 300,048; published Aug. 26, 1930. Class 15.

Busfield Oil Company, Inc., Haverhill, Mass. Gasoline and household fuel oil, etc. 277,437; Nov. 11; Serial No. 299,484; published Aug. 19, 1930. Class 15.

Butterfield, Clarence J., Van Nuys, Calif. Compact cases, bill folds, portfolios, etc. 277,472; Nov. 11; Serial No. 300,923; published Aug. 26, 1930. Class 3.

Buttonless Tire Cover Company, The, Canton, Ohio. Coated textile fabrics. 277,359; Nov. 11; Serial No. 293,658; published Sept. 2, 1930. Class 50.

California Fig Syrup Co., San Francisco, Calif., assignor, by mesne assignments, to Sterling Products (Incorporated), Wheeling, W. Va. Liquid laxative compounds. 35,885; renewed Feb. 12, 1931.

California Fig Syrup Co., San Francisco, Calif., assignor, by mesne assignments, to Sterling Products (Incorporated), Wheeling, W. Va. Liquid purgative compounds. 35,886–7; renewed Feb. 12, 1931.

California Medicinal Wine Co. (See Val Bros.)

California Medicinal Wine Co., Los Angeles, Calif. Medicinal and pharmaceutical preparations. 277,183; Nov. 11; Serial No. 301,569; published Aug. 19, 1930. Class 6.
Carson Pirie Scott and Company, Chicago, Ill. Sweaters. 277,294; Nov. 11; Serial No. 302,928; published Aug. 26, 1930. Class 39.
Caterpillar Tractor Co., San Leandro, Calif. Tractors, tractor engines, track links, etc. 277,417; Nov. 11; Serial No. 297,791; published Aug. 26, 1930. Class 23.
Celite Corporation, New York, N. Y. Finely-divided mineral material. 277,495; Nov. 11; Serial No. 295,362; published Aug. 26, 1930. Class 1.
Celotex Company, The, Chicago, Ill. Cushioning material. 277,241; Nov. 11; Serial No. 302,314; published Aug. 26, 1930. Class 50.
Chabrowe, John M., doing business as The Ruminol Co., Brooklyn, N. Y. Russian mineral oil. 277,481; Nov. 11; Serial No. 297,855; published Sept. 2, 1930. Class 6.
Charleston Milling & Produce Company, Charleston, W. Va. Cake flour and for stock feed. 277,480; Nov. 11; Serial No. 295,152; published Aug. 19, 1930. Class 46.
Chase Candy Company, doing business as Chases, St. Joseph, Mo. Candy. 277,224; Nov. 11; Serial No. 303,318; published Sept. 2, 1930. Class 46.
Chemco Distributing Co. (See Boiko, Earl.)
Chemical Wood Products Company, Portland, Oreg. Pliable wood composition in the nature of putty. 277,198; Nov. 11; Serial No. 301,577; published Sept. 2, 1930. Class 16.
Cheney Lime & Cement Company, Birmingham, Ala. Slag puzzolan cement. 277,210; Nov. 11; Serial No. 302,929; published Sept. 2, 1930. Class 12.
Chicago Mica Company, Valparaiso, Ind., assignor to Continental Diamond Fibre Company, Newark, Del. Varnish. 277,192; Nov. 11; Serial No. 302,724; published Sept. 2, 1930. Class 16.
Circolite Company, The, Portland, Oreg. Illuminated mirrors and cabinets for mounting same. 277,325; Nov. 11; Serial No. 301,336; published Sept. 2, 1930. Class 32.
Clarkson & Ford Company, New York, N. Y. Lubricating oil. 277,164; Nov. 11; Serial No. 301,837; published Sept. 2, 1930. Class 15.
Clinton Hatchery, The, Clinton, Mo. Live baby chicks. 277,223; Nov. 11; Serial No. 301,158; published Aug. 26, 1930. Class 46.
Coast Manufacturing & Supply Co., Livermore, Calif. Powder-train fuses. 277,504; Nov. 11; Serial No. 299,762; published Aug. 26, 1930. Class 9.
Colebrookdale Iron Company, Colebrookdale, Pa. Self-heating charcoal flat and sadirons and parts thereof. 277,304; Nov. 11; Serial No. 301,848; published Aug. 26, 1930. Class 24.
Colgate-Palmolive-Peet Company, Chicago, Ill. Tooth paste, face powder, cold cream, etc. 277,233; Nov. 11; Serial No. 302,993; published Aug. 12, 1930. Class 6.
Colgate-Palmolive-Peet Company, Chicago, Ill. Talc powder. 277,471; Nov. 11; Serial No. 300,785; published Aug. 26, 1930. Class 6.
Columbia Radio Corporation, Chicago, Ill. Radio receiving sets, vacuum or electron tubes, and radiospeakers. 277,173; Nov. 11; Serial No. 303,163; published Sept. 2, 1930. Class 21.
Connecticut Malt Supply Co. (See Hollander, Mae.)
Consolidated Drug Corp. (See Spencer, James W.)
Consolidated Textile Corporation. (See Windsor Print Works, The, assignor.)
Continental Aircraft Engine Company, Detroit, Mich. Internal-combustion engines and parts therefor. 277,423; Nov. 11; Serial No. 296,399; published Sept. 2, 1930. Class 23.
Continental Chemical Corporation, Watseka, Ill. Filler for wood and other materials used for floors. 277,494; Nov. 11; Serial No. 295,639; published Aug. 26, 1930. Class 16.
Continental Diamond Fibre Company. (See Chicago Mica Company, assignor.)
Co-Op Electric Supply Co., Chicago, Ill. Mail-order catalog. 277,253; Nov. 11; Serial No. 288,696; published Sept. 2, 1930. Class 38.
Covered Wagon Company, The. (See Sherman, Arthur G. S.)
Cravens, Mirl D., Lubbock, Tex. Sandwiches. 277,496; Nov. 11; Serial No. 295,133; published Aug. 26, 1930. Class 46.
Crouch, George F., Incorporated, Middletown, Conn. Motor boats. 277,170; Nov. 11; Serial No. 303,319; published Sept. 2, 1930. Class 19.
Crystal Oil Works, The, Oil City, Pa. Gasoline, kerosene, oils, etc. 277,165; Nov. 11; Serial No. 301,161; published Aug. 26, 1930. Class 15.
Cummings, James H., doing business as American Ferment Company, Buffalo, N. Y. Ferment. 277,243; Nov. 11; Serial No. 302,212; published Aug. 12, 1930. Class 6.
Cutter Laboratory, The, Berkeley, Calif. Extracts to be used for prevention and/or treatment of dermatitis. 277,172; Nov. 11; Serial No. 303,167; published Aug. 19, 1930. Class 6.
Da-Light Floodlight Co. (See Wollard, John P.)
Darby, Costilla, doing business as C. A. Darby, Opp, Ala. Medicinal preparation. 277,176; Nov. 11; Serial No. 302,997; published Aug. 19, 1930. Class 6.
Darby, Costilla, Opp, Ala. General tonic. 277,232; Nov. 11; Serial No. 302,996; published Aug. 12, 1930. Class 6.
Dawn Boat Corporation, New York, N. Y. Boats. 277,271; Nov. 11; Serial No. 301,416; published Aug. 26, 1930. Class 19.
Deerfield Glassine Company, New York, N. Y. Transparent paper. 277,510; Nov. 11. Class 37.
Dennison Manufacturing Company, Framingham, Mass. Crepe paper. 277,376; Nov. 11; Serial No. 302,726; published Aug. 26, 1930. Class 37.
Diamond Medal Pen Co. (See Sears, Roebuck and Co.)
Dicalite Company, The, Torrance, Calif. Diatomaceous earth, fillers, heat insulation, etc. 277,506; Nov. 11; Serial No. 299,689; published Aug. 26, 1930. Class 1.
Dicalite Company, The, Torrance, Calif. Diatomaceous earth, kieselguhr, infursorial-earth fillers, etc. 277,507; Nov. 11; Serial No. 299,688; published Sept. 2, 1930. Class 1.
Dittmar, Henry L., Rosendale, N. Y. Medical preparation. 277,497; Nov. 11; Serial No. 297,800; published Aug. 26, 1930. Class 6.
Dixie Feed Company, Savannah, Ga. Dairy feeds. 277,487; Nov. 11; Serial No. 299,189; published Sept. 2, 1930. Class 46.
Dobbs & Co., New York, N. Y. Flasks, shirt cases, tie cases, etc. 277,430; Nov. 11; Serial No. 299,900; published Aug. 26, 1930. Class 2.
Dodge, F. W., Corporation, New York, N. Y. Monthly magazine. 277,378; Nov. 11; Serial No. 303,367; published Aug. 26, 1930. Class 38.
Dona Rosa. (See Smart & Company.)
Drake Bakeries Incorporated, Brooklyn, N. Y. Cake. 277,279–80; Nov. 11; Serial Nos. 303,321–2; published Aug. 26, 1930. Class 46.
Droiac Chemical Co., Buncombe, N. C. Purgative, laxative, and tonic medicinal preparation. 277,408; Nov. 11; Serial No. 303,687; published Sept. 2, 1930. Class 6.
Ducharne, F., Silk Co. Inc., New York, N. Y. Silk piece goods. 277,511; Nov. 11. Class 42.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Dyes and dyestuffs. 277,171; Nov. 11; Serial No. 303,169; published Aug. 19, 1930. Class 6.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Rubberized fabrics. 277,229; Nov. 11; Serial No. 303,323; published Aug. 26, 1930. Class 50.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Dyes and dyestuffs. 277,397; Nov. 11; Serial No. 303,170; published Aug. 26, 1930. Class 6.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Wax. 277,493; Nov. 11; Serial No. 296,001; published Aug. 26, 1930. Class 16.
Durawear Corporation, Minneapolis, Minn. Bloomers, panties, pajamas, etc. 277,254; Nov. 11; Serial No. 287,655; published Aug. 26, 1930. Class 39.
Duré. (See Glatzer, Gustave.)
Dürener Metallwerke Aktien-Gesellschaft, Duren, Germany. Automobiles, motor cycles, bicycles, etc. 277,252; Nov. 11; Serial No. 289,399; published Sept. 2, 1930. Class 19.
Duz-Mor'n Sugar Co. (See Leo, Albert.)
Economy Housing Company, Onawa, Iowa. Portable manufactured buildings. 277,222; Nov. 11; Serial No. 301,421; published Sept. 2, 1930. Class 12.
Eden, Walter C., Denver, Colo. Vaginal antiseptic tablets. 277,181; Nov. 11; Serial No. 302,305; published Aug. 19, 1930. Class 6.
Edward Valve and Manufacturing Co., The, East Chicago, Ind. Metal plumbing and steam-fitting valves and parts thereof. 277,262; Nov. 11; Serial No. 303,172; published Sept. 2, 1930. Class 13.
Ellis, Carl S., Chicago, Ill. Metallic strips used in the formation of trenches in dentures. 277,273; Nov. 11; Serial No. 301,018; published Aug. 26, 1930. Class 44.
Emrich, John G., Columbus, Ohio. Coal and wood heating stoves, etc. 277,306; Nov. 11; Serial No. 301,253; published Sept. 2, 1930. Class 34.
Eureka Metal Products Corporation. (See Orco Mfg. Corp., assignor.)
Everson, Archie R., Newark, N. J. Lip-stick pencil or crayon, hair tonic, shampoo, etc. 277,259; Nov. 11; Serial No. 286,821; published Aug. 19, 1930. Class 6.
Exterikultur A.-G., Kolberg, Germany. Toothbrushes. 277,441; Nov. 11; Serial No. 300,865; published Aug. 26, 1930. Class 29.
Fairmont Realty Corporation, doing business as The Vitamin Company, Charlotte, N. C. Beverages. 277,189; Nov. 11; Serial No. 303,103; published Aug. 26, 1930. Class 45.
Feldman, Abraham, doing business as A. Feldman Company, Boston, Mass. Jackets. 277,338; Nov. 11; Serial No. 281,823; published Aug. 26, 1930. Class 39.
Fields, Mary E., New York, N. Y. Hair pomade, hair-glossing fluid, etc. 277,386; Nov. 11; Serial No. 301,873; published Sept. 2, 1930. Class 6.
Finn, J. A., & Company, New York, N. Y. Cotton piece goods. 277,527; Nov. 11. Class 42.
Firebrand Kitchen Equipment Company, The, New York, N. Y.; Cincinnati, Ohio; and Chicago, Ill. Silverware and cutlery boxes and coffee-retaining bags. 277,287; Nov. 11; Serial No. 285,503; published Aug. 26, 1930. Class 2.
Foley, Joe, Chicago, Ill. Newspaper column. 277,444; Nov. 11; Serial No. 302,818; published Sept. 2, 1930. Class 38.

Fortuna-Werke Spezialmaschinenfabrik A.-G., Stuttgart-Cannstatt, Germany. Lubricating oils and greases and power-transmission oils. 277,329; Nov. 11; Serial No. 284,534; published Aug. 19, 1930. Class 15.
Fortuna-Werke Spezialmaschinenfabrik A.-G., Stuttgart-Cannstatt, Germany. Lubricating oils and greases and power-transmission oils. 277,330; Nov. 11; Serial No. 284,533; published June 24, 1930. Class 15.
Fortuna-Werke Spezialmaschinenfabrik A.-G., Stuttgart-Cannstatt, Germany. Balancing apparatus for grinding wheels, etc. 277,331; Nov. 11; Serial No. 284,532; published July 15, 1930. Class 26.
Fortuna-Werke Spezialmaschinenfabrik A.-G., Stuttgart-Cannstatt, Germany. Balancing apparatus, measuring apparatus. 277,332; Nov. 11; Serial No. 284,531; published June 24, 1930. Class 26.
Fortuna-Werke Spezialmaschinenfabrik A.-G., Stuttgart-Cannstatt, Germany. Machines and apparatus for working leather, etc. 277,333; Nov. 11; Serial No. 284,530; published July 15, 1930. Class 23.
Fortuna-Werke Spezialmaschinenfabrik A.-G., Stuttgart-Cannstatt, Germany. Machines and apparatus for working leather and manufacturing shoes, beveling machines, etc. 277,334; Nov. 11; Serial No. 284,529; published June 24, 1930. Class 23.
Fox, G., & Co. Inc., Hartford, Conn. Necklaces, finger rings, and bracelets. 277,163; Nov. 11; Serial No. 301,886; published Sept. 2, 1930. Class 28.
Fox, G., & Co. Inc., Hartford, Conn. Clothes patterns. 277,324; Nov. 11; Serial No. 301,883; published Sept. 2, 1930. Class 26.
Franklin-Turner Co., The, Chicago, Ill. Card tables. 277,319; Nov. 11; Serial No. 302,432; published Aug. 26, 1930. Class 32.
G. E. Medicine Company. (See Perry, Nathan B.)
Gallagher, S. J., Brawley and Los Angeles, Calif. Fresh citrus fruits, fresh deciduous fruits, fresh vegetables, etc. 277,214; Nov. 11; Serial No. 302,631; published Aug. 26, 1930. Class 46.
Gardner Mills, (See King Midas Mill Company.)
Gardner Pine Needle Products Company, The, Sharon Springs, N. Y. Oil extracted from pine needles. 277,250; Nov. 11; Serial No. 290,351; published Aug. 12, 1930. Class 6.
Gile Merchandising Bureau, Minneapolis, Minn. Electrically-operated information tabulating and automatic list-selecting machines. 277,315; Nov. 11; Serial No. 302,729; published Aug. 26, 1930. Class 21.
Glassine Paper Company, The, West Conshohocken, Pa. Paper, more particularly glassine paper. 277,503; Nov. 11; Serial No. 299,966; published Aug. 26, 1930. Class 37.
Glatzer, Gustave, doing business as Duré, New York, N. Y. Lip rouge, face powder, tooth paste, etc. 277,400; Nov. 11; Serial No. 303,284; published Sept. 2, 1930. Class 6.
Gleason Works, The, Rochester, N. Y. Machines and apparatus for grinding, lapping, etc. 277,419; Nov. 11; Serial No. 297,736; published Sept. 2, 1930. Class 23.
Gleason Works, The, Rochester, N. Y. Machines and apparatus for testing gears, etc. 277,420; Nov. 11; Serial No. 297,735; published Sept. 2, 1930. Class 26.
Goldman-Kolber Co. Inc., New York, N. Y. Finger rings. 277,168; Nov. 11; Serial No. 301,027; published Aug. 19, 1930. Class 28.
Graphometer Company Incorporated, New York, N. Y. Light-measuring apparatus. 277,256; Nov. 11; Serial No. 287,140; published Sept. 2, 1930. Class 26.
Grigsby-Grunow Company, Chicago, Ill. Phonographs. 277,284; Nov. 11; Serial No. 285,914; published Aug. 26, 1930. Class 36.
Guardian Health Products Co., Inc., Atlanta, Ga. Preparation to be taken internally in the treatment of muscular aches, etc. 277,240; Nov. 11; Serial No. 302,317; published Aug. 12, 1930. Class 6.
Gulf Specialty Sales, Inc., Syracuse, N. Y. Sponges and chamois. 277,363; Nov. 11; Serial No. 302,895; published Aug. 26, 1930. Class 1.
Hair Craft Laboratories. (See Arroyo, Thomas B.)
Hamilton, William C., jr., Brooklyn, N. Y. Tallies and score cards for bridge. 277,486; Nov. 11; Serial No. 299,058; published Aug. 26, 1930. Class 37.
Hampshire Paper Company, South Hadley Falls, Mass. Paper. 277,377; Nov. 11; Serial No. 303,181; published Sept. 2, 1930. Class 37.
Hampshire Paper Company, South Hadley Falls, Mass. Paper. 277,502; Nov. 11; Serial No. 300,018; published Sept. 2, 1930. Class 37.
Hance Brothers & White, Inc., Philadelphia, Pa. Antiseptic or disinfecting chemical compound. 277,371; Nov. 11; Serial No. 302,434; published Aug. 26, 1930. Class 6.
Hard & Rand, Inc., New York, N. Y. Coffee. 277,208–9; Nov. 11; Serial Nos. 303,286–7; published Sept. 2, 1930. Class 46.
Hard & Rand, Inc., New York, N. Y. Coffee. 277,219; Nov. 11; Serial No. 302,322; published Sept. 2, 1930. Class 46.
Hartmann, Paul, A.-G., Heidenheim, Germany. Surgical dressings and poultices. 277,474; Nov. 11; Serial No. 293,555; published Aug. 19, 1930. Class 6.
Harvel Corporation, The, Newark, N. J. Electrical insulation compounds and fabrics. 277,161; Nov. 11; Serial No. 302,161; published Aug. 19, 1930. Class 21.

Haun, Blair A., doing business as Haun Pharmacal Co., Des Moines, Iowa. Preparation for the treatment of colds and influenza. 277,302; Nov. 11; Serial No. 302,163; published Aug. 19, 1930. Class 6.
Hazleton Company, Inc., The, Hazleton, Pa. Multiple-level valves. 277,353; Nov. 11; Serial No. 294,355; published Aug. 26, 1930. Class 13.
Hekman Biscuit Co. (See United Biscuit Company of America.)
Henri Ltd., London, England. Canned fruits and dried fruits. 277,342; Nov. 11; Serial No. 266,810; published Aug. 26, 1930. Class 46.
Hermeton Limited, London, England. Cardboard cartons. 277,182; Nov. 11; Serial No. 302,181; published Aug. 26, 1930. Class 2.
Herzwig, Olaf, Trading Co., Inc., New York, N. Y. Bread. 277,464; Nov. 11; Serial No. 300,414; published Sept. 2, 1930. Class 46.
High School Digest, The, New York, N. Y. Periodical publication. 277,499; Nov. 11; Serial No. 300,195; published Aug. 26, 1930. Class 38.
Highton, Alex. G., Inc., Newark, N. J. Business cards, catalogues, circulars, etc. 277,462; Nov. 11; Serial No. 300,196; published Sept. 2, 1930. Class 38.
Hilliard Iodine Laboratories, Chicago, Ill. Medicinal tonic. 277,185; Nov. 11; Serial No. 301,343; published Aug. 12, 1930. Class 6.
Hollander, Mae, doing business as Connecticut Malt Supply Co., Waterbury, Conn. Canned malt syrup. 277,440; Nov. 11; Serial No. 300,872; published Aug. 26, 1930. Class 46.
Holo-Krome Screw Corporation, The, Hartford, Conn. Screws. 277,346; Nov. 11; Serial No. 295,619; published Sept. 2, 1930. Class 13.
Home Treatment Remedy Company, The, Sault Ste. Marie, Mich. Suppositories. Re79,493; renewed Sept. 13, 1930.
Hopper, Albert M., doing business as The Kanesia Company, New York, N. Y. Preparation for treating indigestion and constipation. 277,401; Nov. 11; Serial No. 303,642; published Sept. 2, 1930. Class 6.
Hospital Supply Company and the Watters Laboratories, Consolidated, The, New York, N. Y. Water-level gages. 277,159; Nov. 11; Serial No. 303,506; published Sept. 2, 1930. Class 26.
Howard, Frank M., doing business as The Howard Manufacturing Company, Pittsburgh, Pa. Solution to be applied to vehicle windshields, windowpanes, and the like for the prevention of the collection of dirt, etc., thereon. 277,477; Nov. 11; Serial No. 294,531; published Aug. 26, 1930. Class 4.
Hunch's Lucky Cartoon Company, Baltimore, Md. Printed cartoons. 277,369; Nov. 11; Serial No. 302,182; published Aug. 26, 1930. Class 38.
Huntington Laboratories, Inc., Huntington, Ind. Dry-cleaning soap. 277,187; Nov. 11; Serial No. 303,330; published Aug. 26, 1930. Class 4.
Huntington Laboratories, Inc., Huntington, Ind. Dry-cleaning soap. 277,278; Nov. 11; Serial No. 303,329; published Aug. 26, 1930. Class 4.
Hutchinson, Edson L., doing business as Hutchinson Candy Company, San Francisco, Calif. Candy. 277,411; Nov. 11; Serial No. 298,701; published Aug. 26, 1930. Class 46.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Varnishes and lacquers. 277,194; Nov. 11; Serial No. 302,537; published Aug. 26, 1930. Class 16.
Indian Refining Company, Lawrenceville, Ill. Lubricating oils and greases and oils and greases in the nature of lubricants. 277,354; Nov. 11; Serial No. 294,225; published Sept. 2, 1930. Class 15.
Indiana Limestone Company, Bedford, Ind., and New York, N. Y. Building stone. 277,449–53; Nov. 11; Serial Nos. 301,458–62; published Sept. 2, 1930. Class 1.
Indiana Limestone Company, Bedford, Ind., and New York, N. Y. Building stone. 277,454; Nov. 11; Serial No. 301,455; published Sept. 2, 1930. Class 1.
Indiana Limestone Company, Bedford, Ind., and New York, N. Y. Building stone. 277,455; Nov. 11; Serial No. 301,451; published Sept. 2, 1930. Class 1.
Indiana Limestone Company, Bedford, Ind., and New York, N. Y. Building stone. 277,456; Nov. 11; Serial No. 301,449; published Sept. 2, 1930. Class 1.
Indiana Limestone Company, Bedford, Ind., and New York, N. Y. Building stone. 277,457–8; Nov. 11; Serial Nos. 301,446–7; published Sept. 2, 1930. Class 1.
Indiana Limestone Company, Bedford, Ind., and New York, N. Y. Building stone. 277,459–60; Nov. 11; Serial Nos. 301,442–3; published Sept. 2, 1930. Class 1.
Inland Aviation Company, Kansas City, Kans. Aeroplanes and aeroplane structural parts. 277,345; Nov. 11; Serial No. 293,900; published Aug. 26, 1930. Class 19.
Internal Combustion Atomizers Company, Inc., Fall River, Mass. Humidifier for internal-combustion engines. 277,313; Nov. 11; Serial No. 303,114; published Aug. 26, 1930. Class 23.
International Combustion Tar & Chemical Corporation, New York, N. Y. Varnish. 277,195; Nov. 11; Serial No. 302,402; published Aug. 26, 1930. Class 16.
International Combustion Tar & Chemical Corporation, New York, N. Y. Trays. 277,320; Nov. 11; Serial No. 302,403; published Sept. 2, 1930. Class 2.
International Combustion Tar & Chemical Corporation, New York, N. Y. Moth balls, naphthalene balls, naphthalene flakes, etc. 277,394; Nov. 11; Serial No. 302,400; published Aug. 26, 1930. Class 6.

International Combustion Tar & Chemical Corporation, New York, N. Y. Resins. 277,446; Nov. 11; Serial No. 302,401; published Aug. 26, 1930. Class 1.
Iron Fireman Manufacturing Company, Portland, Oreg. Automatic coal burners. 277,425; Nov. 11; Serial No. 300,418; published Sept. 2, 1930. Class 34.
Italian Importing Company, Spokane, Wash. Effervescent salts. 277,184; Nov. 11; Serial No. 301,344; published Aug. 19, 1930. Class 6.
Jelke, John F., Chicago, Ill. Oleomargarin. 81,150–2; renewed Mar. 7, 1931.
Jewell Paint & Varnish Co., Chicago, Ill. Metal-preservative paint. 277,465; Nov. 11; Serial No. 300,522; published Aug. 26, 1930. Class 16.
Johnson, Ben L., doing business as Tras-Tine Chemical Company, Canton, Miss. Deodorant, mouth wash, and antiseptic solution. 277,396; Nov. 11; Serial No. 303,027; published Sept. 2, 1930. Class 6.
Joseph, Joseph W., doing business as Joseph's Wonder of the Age, Los Banos, Calif. Medicinal preparation. 277,479; Nov. 11; Serial No. 294,975; published Aug. 19, 1930. Class 6.
Kalo Company, The, Baltimore, Md. Chemical preparation. 277,355; Nov. 11; Serial No. 294,161; published Aug. 19, 1930. Class 6.
Kanesia Company, The. (See Hopper, Albert M.)
Kaufmann Department Stores, Inc., Pittsburgh, Pa. Bracelets, finger rings, necklaces, etc. 277,404; Nov. 11; Serial No. 298,997; published Aug. 26, 1930. Class 28.
Kayser, Julius, & Co., New York, N. Y. Underwear. 277,434; Nov. 11; Serial No. 299,661; published Aug. 26, 1930. Class 39.
Keehnel, Roy B., doing business as Merchandising Sales Machine Co., Independence, Mo. Vending machines for use in vending packaged merchandise. 277,311; Nov. 11; Serial No. 303,250; published Aug. 26, 1930. Class 23.
Kelly Graphite Mills, Inc., Stockertown, Pa. Parting compounds for use in casting metals. 277,339; Nov. 11; Serial No. 281,006; published Aug. 19, 1930. Class 1.
Kendall Company, The, Boston, Mass., and Chicago, Ill. Absorbent cotton. 277,190; Nov. 11; Serial No. 302,901; published Sept. 2, 1930. Class 44.
King Midas Mill Company, Minneapolis, Minn. doing business as Gardner Wheat flour. 277,200; Nov. 11; Serial No. 301,040; published Aug. 26, 1930. Class 46.
Kings County Packing Company, Oakland, Calif. Canned fruits, canned vegetables. 277,225; Nov. 11; Serial No. 303,537; published Sept. 2, 1930. Class 46.
Knoll, Wm. T., Company, Inc., New York, N. Y. Shirts. 277,303; Nov. 11; Serial No. 301,950; published Aug. 26, 1930. Class 39.
Knox Company, Kansas City, Mo. Balm preparation. 277,244; Nov. 11; Serial No. 301,951; published Aug. 12, 1930. Class 6.
Kooky-Lax Company, Philadelphia, Pa. Laxatives. 277,436; Nov. 11; Serial No. 299,581; published Aug. 12, 1930. Class 6.
Kuenzle & Streiff, New York, N. Y., and Manila, P. I., to Alhambra Cigar & Cigarette Mfg. Co., Manila, P. I., successor. Cigars and cigarettes. 80,061; renewed Nov. 1, 1930.
La Corporation de la Trappe de Notre-Dame-du-Lac des Deux Montagnes, la Trappe, Quebec, Canada. Cheese. 277,482; Nov. 11; Serial No. 297,974; published Aug. 26, 1930. Class 46.
Laher Auto Spring Co., Inc., Oakland, Calif. Brake lining. 277,265; Nov. 11; Serial No. 302,733; published Sept. 2, 1930. Class 35.
Lanair Company, Chicago, Ill. Sanitary packs or sanitary napkins. 277,193; Nov. 11; Serial No. 302,582; published Aug. 26, 1930. Class 44.
Laub's, Geo., Sons, Buffalo, N. Y. Leather. 277,501; Nov. 11; Serial No. 300,069; published Aug. 19, 1930. Class 1.
Leo, Albert, doing business as Duz-Mor'n Sugar Co., Chicago, Ill. Pectinized sugar. 277,361; Nov. 11; Serial No. 296,280; published Aug. 26, 1930. Class 46.
Lilly, Eli, and Company, Indianapolis, Ind. Extract made from amniotic fluid. 277,395; Nov. 11; Serial No. 303 002; published Aug. 26, 1930. Class 6.
Lima Cord Sole and Heel Company, The, Lima, Ohio. Mats. 277,177; Nov. 11; Serial No. 302,952; published Sept. 2, 1930. Class 50.
Lion Corporation, The, Buffalo, N. Y. Hosiery. 277,292; Nov. 11; Serial No. 303,193; published Aug. 26, 1930. Class 39.
Loftin, Edward H., trustee, New York, N. Y. Cascaded electron-tube systems. 277,431; Nov. 11; Serial No. 299,784; published Sept. 2, 1930. Class 21.
Loth, W. J., Stove Company, The, Waynesboro, Va. Stoves, ranges, and heaters, and parts thereof. 36,079; renewed Mar. 12, 1931.
Louck & Hill Company, Richmond, Ind. Chifforobes, wardrobes, dresserobes, etc. 277,439; Nov. 11; Serial No. 300,879; published Sept. 2, 1930. Class 32.
Luckett-Wake Tobacco Co., Louisville, Ky. Leaf tobacco, cigarettes, and smoking tobacco. 277,151; Nov. 11; Serial No. 302,864; published Sept. 2, 1930. Class 17.
Mackenzie, Leon R., Des Moines, Iowa. Liquid asphalt. 277,221; Nov. 11; Serial No. 301,961; published Sept. 2, 1930. Class 12.
Malotte, Nelson K., doing business as Malotte Products Co., New York, N. Y. Radio aerial kits. 277,418; Nov. 11; Serial No. 297,752; published Sept. 2, 1930. Class 21.
Margulis, Abraham, doing business as Royal Drug Co., Bronx, N. Y. Antiseptic and analgesic ointment. 277,234; Nov. 11; Serial No. 302,957; published Aug. 12, 1930. Class 6.
Massa, Louis, Trenton, N. J. Washing fluid. 277,491; Nov. 11; Serial No. 296,706; published Aug. 26, 1930. Class 4.
May Hosiery Mills, Inc., Burlington, N. C. Hosiery. 277,293; Nov. 11; Serial No. 302,958; published Aug. 26, 1930. Class 39.
McCaskey Register Company, The, assignor to The McCaskey Register Company, Alliance, Ohio. Manifolding books. 80,138; renewed Nov. 8, 1930.
McCourt & McCourt, New York, N. Y. Soap. 277,509; Nov. 11. Class 4.
McGuire, George W., doing business as Yamade Co., New York, N. Y. Bamboo rakes. 277,314; Nov. 11; Serial No. 302,868; published Aug. 26, 1930. Class 23.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Preparation for the relief of indigestion. 277,180; Nov. 11; Serial No. 302,786; published Aug. 19, 1930. Class 6.
McNeir, Bell, Inglewood, Calif. Medicine and pharmaceutical preparations. 277,410; Nov. 11; Serial No. 298,829; published Aug. 19, 1930. Class 6.
Merchandising Sales Machine Co. (See Keehnel, Roy B.)
Merchant Trading Company, Limited, The, London, England. Electric insulators, electric junction boxes, etc. 277,166; Nov. 11; Serial No. 301,050; published Sept. 2, 1930. Class 21.
Merchant Trading Company, Limited, The, London, England. Electric insulators and electric junction boxes, etc. 277,167; Nov. 11; Serial No. 301,048; published Sept. 2, 1930. Class 21.
Merchant Trading Company, Limited, The, London, England. Table tops, cases or cabinets, etc. 277,326; Nov. 11; Serial No. 301,049; published Sept. 2, 1930. Class 32.
Merchant Trading Company, Limited, The, London, England. Table tops, cases or cabinets, etc. 277,327; Nov. 11; Serial No. 301,046; published Sept. 2, 1930. Class 32.
Merchants and Manufacturers Association of Bush Terminal, Inc., Brooklyn, N. Y. Bulletin. 277,360; Nov. 11; Serial No. 293,628; published Sept. 2, 1930. Class 38.
Merck & Co., New York, N. Y., assignor, by mesne assignments, to Merck & Co., Inc., Rahway, N. J. Chemicals. 79,845; renewed Oct. 11, 1930.
Merrell, Wm. S., Company, The, Cincinnati, Ohio. Ointment for dermal application. 277,374; Nov. 11; Serial No. 302,586; published Aug. 19, 1930. Class 6.
Metro-Goldwyn-Mayer Corporation, Los Angeles, Calif. Printed motion-picture films. 277,427; Nov. 11; Serial No. 300,221; published Sept. 2, 1930. Class 26.
Michels, Peter, J., New York, N. Y. Cutlery. 277,312; Nov. 11; Serial No. 303,199; published Aug. 26, 1930. Class 23.
Miller Company, The, Meriden, Conn. Electric-lighting fixtures, etc. 277,344; Nov. 11; Serial No. 296,132; published Sept. 2, 1930. Class 21.
Miller Maid Creamery, Inc., Akron, Ohio. Butter. 277,448; Nov. 11; Serial No. 301,986; published Aug. 26, 1930. Class 46.
Mobile Grocery Company, doing business as Southern Products Co., Mobile, Ala. Mayonnaise and sandwich spread. 277,442; Nov. 11; Serial No. 300,644; published Aug. 26, 1930. Class 46.
Montag Bros. Inc., Atlanta, Ga. Paper and envelopes. 277,383; Nov. 11; Serial No. 303,775; published Sept. 2, 1930. Class 37.
Montgomery Ward & Co., Incorporated, Chicago, Ill. Razor blades, pocket knives, scissors, and shears. 277,358; Nov. 11; Serial No. 294,080; published Aug. 26, 1930. Class 23.
Moore, J. H., Company, Inc., Tulsa, Okla. Overstuffed furniture, reed furniture, fibre furniture, etc. 277,352; Nov. 11; Serial No. 295,038; published Aug. 26, 1930. Class 32.
Morgenstern, Felix, doing business as Morgenstern Chemical Co., New York, N. Y. Medicinal preparation for the relief of pains and for inducing sleep. 277,372; Nov. 11; Serial No. 302,470; published Aug. 26, 1930. Class 6.
Morley Button Manufacturing Company, Portland, Me., and Portsmouth, N. H. Dry mats. 277,230–1; Nov. 11; Serial Nos. 303,251–2; published Aug. 26, 1930. Class 50.
N. V. Chemische Fabriek Dr. K. A. Ockinga, Enschede, Netherlands. Textile and leather finishing oils and fats. 277,483; Nov. 11; Serial No. 298,288; published Aug. 19, 1930. Class 6.
Nashville Hardwood Flooring Company, Nashville, Tenn. Oak and beech flooring. 277,213; Nov. 11; Serial No. 302,741; published Sept. 2, 1930. Class 12.
National Biscuit Company, Jersey City, N. J., and Chicago, Ill., to National Biscuit Company, New York, N. Y. Biscuits, crackers, wafers, etc. 36,002; renewed Mar. 5, 1931.

National Lawn Sprinkler Corporation, The, Glendale, Calif. Lawn sprinklers. 277,269; Nov. 11; Serial No. 301,995; published Aug. 26, 1930. Class 13.
National Portland Cement Company, Dallas and Houston, Tex., and Los Angeles, Calif. Construction cement. 277,212; Nov. 11; Serial No. 302,742; published Sept. 2, 1930. Class 12.
Neptune Storage Van Co., Inc., New Rochelle, N. Y. Portable cases. 277,290; Nov. 11; Serial No. 303,609; published Sept. 2, 1930. Class 2.
New York Belting & Packing Company Ltd., New York, N. Y., and Passaic, N. J., assignor to New York Belting and Packing Company, New York, N. Y. Hose. 80,489; renewed Dec. 27, 1930.
Obear-Nester Glass Company, East St. Louis, Ill. Bottles formed of glass. 277,528; Nov. 11. Class 33.
Ohio Power Shovel Company, The, Lima, Ohio. Power shovels, drag shovels, cranes, and parts thereof. 277,321; Nov. 11; Serial No. 302,255; published Sept. 2, 1930. Class 23.
Old Leaf Mold Humus Corporation, Indianapolis, Ind. Fertilizers. 277,146; Nov. 11; Serial No. 303,573; published Sept. 2, 1930. Class 10.
Omega Upsilon, Evanston, Ill. Fraternity pins, badges, bracelets, and rings. 277,435; Nov. 11; Serial No. 299,617; published Aug. 19, 1930. Class 28.
Orco Mfg. Corp., assignor to Enreka Metal Products Corporation, Buffalo, N. Y. Electrical contact fingers for conducting electric current in and between parts of electric control apparatus. 277,152; Nov. 11; Serial No. 302,513; published Aug. 26, 1930. Class 21.
Oro Manufacturing Co., Pittsburgh, Pa. Soap. 277,328; Nov. 11; Serial No. 287,157; published Aug. 26, 1930. Class 4.
Osavens Products Co., The, Frankfort, Ind. Poultry medicine. 277,484; Nov. 11; Serial No. 298,289; published Aug. 26, 1930. Class 6.
Oxford Paper Company, New York, N. Y. Paper. 277,381; Nov. 11; Serial No. 303,486; published Sept. 2, 1930. Class 37.
Pacific Coast Steel Corporation, Los Angeles and Huntington Park, Calif. Bolts and rivets. 277,272; Nov. 11; Serial No. 301,202; published Aug. 26, 1930 Class 13.
Pacific Mills, Lawrence and Boston, to Pacific Mills, Boston, Mass. Wool and cotton piece goods. 80,869; renewed Feb. 7, 1931.
Parfumerie Roger et Gallet, Société Anonyme, Paris, France. Perfume extracts, toilet waters, pastes, etc. 277,285; Nov. 11; Serial No. 285,788; published Aug. 12, 1930. Class 6.
Patch, E. L., Company, The, Stoneham, Mass. Cold, beauty, cleansing, etc., creams and lotions. 277,384; Nov. 11; Serial No. 301,501; published Aug. 19, 1930, Class 6.
Perkins Glue Company, Lansdale, Pa. Glue. 277,445; Nov. 11; Serial No. 302,443; published Aug. 26, 1930. Class 5.
Perolin Company of America, The, Chicago, Ill., Insecticide. 277,295; Nov. 11; Serial No. 302,872; published Sept. 2, 1930. Class 6.
Perry, Nathan B., doing business as G. E. Medicine Company, Charlotte, N. C. Medicinal preparation. 277,178; Nov. 11; Serial No. 302,909; published Aug. 19, 1930. Class 6.
Peru Basket Company, The, Peru, Ind. Ironing boards. 277,357; Nov. 11; Serial No. 294,085; published Sept. 2, 1930. Class 24.
Petrolagar Laboratories, Inc., Chicago, Ill. Preparation for use in the treatment of constipation. 277,393; Nov. 11; Serial No. 302,165; published Sept. 2, 1930. Class 6.
Pfohl & Dingens, Buffalo, N. Y. Coats and suits. 277,251; Nov. 11; Serial No. 289,902; published Aug. 26, 1930. Class 39.
Philo Hay Specialties Co., Newark, N. J., assignor to Philo Hay Company, Inc., New York, N. Y. Dressing and invigorant for the hair. 79,856; renewed Oct. 11, 1930.
Pike Manufacturing Company, Pike, N. H. Scythestones, whetstones, and abrasive sharpening stones. 277,202–3; Nov. 11; Serial Nos. 303,543–4; published Sept. 2, 1930. Class 4.
Pioneer Paper Stock Company, Minneapolis, Minn. Pads. 277,237; Nov. 11; Serial No. 302,910; published Aug. 26, 1930. Class 50.
Plough, Inc., Memphis, Tenn. Toilet soap. 277,204; Nov. 11; Serial No. 303,488; published Sept. 2, 1930. Class 4.
Pond, A. H., Co., Inc., Syracuse, N. Y. Finger rings. 277,153; Nov. 11; Serial No. 302,473; published Sept. 2, 1930. Class 28.
Popular Publications, New York, N. Y. Periodical. 277,366; Nov. 11; Serial No. 302,011; published Aug. 26, 1930. Class 38.
Popular Publications, New York, N. Y. Periodical. 277,367; Nov. 11; Serial No. 302,012; published Aug. 26, 1930. Class 38.
Popular Publications, New York, N. Y. Periodical. 277,368; Nov. 11; Serial No. 302,013; published Sept. 2, 1930. Class 38.
Potter Refrigerator Corporation, Portland, Oreg. Refrigerating machinery. 277,335; Nov. 11; Serial No. 284,364; published Aug. 26, 1930. Class 31.
Press, Myron H., doing business as Scientific Exterminators Research Laboratories, New York, N. Y. Liquid insecticide. 277,428; Nov. 11; Serial No. 300,086; published Aug. 12, 1930. Class 6.
Pulverizing Machinery Company, New York, N. Y. Grinding and pulverizing machines. 277,258; Nov. 11; Serial No. 286,837; published Aug. 26, 1930. Class 23.
Putnam, Nicholas, Inc. (See Verlaine, Inc., assignor.)
Queen Perfumery Co., The, San Juan and Santurce, P. R. Liquid preparation to be used after shaving. 277,336; Nov. 11; Serial No. 284,139; published Aug. 12, 1930. Class 6.
Raicer, Samuel A., doing business as Won-Sol Chemical Co., Bayonne, N. J. Medicinal solution. 277,248; Nov. 11; Serial No. 291,738; published Sept. 2, 1930. Class 6.
Rajah Rabbitry, Inc., Wichita, Kans. Rabbit food. 277,476; Nov. 11; Serial No. 294,320; published Aug. 26, 1930. Class 46.
Raulli, Ralph, doing business as Sunland Biscuit Co., Los Angeles, Calif. Cookies and crackers, mushroom sauce, etc. 277,406; Nov. 11; Serial No. 298,907; published Aug. 26, 1930. Class 46.
Reed, Joe L., Waco, Tex. Beverages and syrups and extracts used in making the same. 277,197; Nov. 11; Serial No. 302,222; published Aug. 26, 1930. Class 45.
Reese, Barbara, doing business as Robert M. Reese, Philadelphia, Pa. Drinking-water antiseptic. 277,398; Nov. 11; Serial No. 303,211; published Sept. 2, 1930. Class 6.
Reifschneider, Harvey W., doing busines as Reifschneider's White Spot, Dallas, Tex. Beef sandwiches, pork sandwiches, etc. 277,438; Nov. 11; Serial No. 299,280; published Aug. 26, 1930. Class 46.
Reliable Coal & Mining Co., The, Chicago, Peoria, and Springfield, Ill.; Moberly and Kansas City, Mo.; and Omaha, Nebr. Coal. 277,364; Nov. 11; Serial No. 303,006; published Aug. 26, 1930. Class 1.
Reliance Dental Manufacturing Company, Chicago, Ill. Dental rubber. 277,270; Nov. 11; Serial No. 301,703; published Aug. 26, 1930. Class 44.
Richard Chemical Company, Long Island City, N. Y. Chemical dyes. 277,469–70; Nov. 11; Serial Nos. 300,756–7; published Aug. 19, 1930. Class 6.
Richards, Sutton & Thornton, Inc., New York, N. Y. Knitted underwear, polo shirts, and sweaters. 277,524; Nov. 11. Class 39.
Robbins Company, The, Attleboro, Mass. Humidors. 277,158; Nov. 11; Serial No. 302,189; published Sept. 2, 1930. Class 8.
Robinson, Paul, Belleville, N. J. Newspaper cartoons. 277,492; Nov. 11; Serial No. 296,447; published Apr. 8, 1930. Class 38.
Rogers & Thompson, West New York, N. J., and New York, N. Y., to Loren O. Thompson, doing business as L. O. Thompson Co., New York, N. Y., successor. Certain piece goods. 79,604; renewed Sept. 20, 1930.
Rogers & Thompson, West New York, N. J., and New York, N. Y., to Loren O. Thompson, doing business as L. O. Thompson Co., New York, N. Y., successor. Silk piece goods. 79,786; renewed Oct. 4, 1930.
Royal Drug Co. (See Margulis, Abraham.)
Ruminol Co., The. (See Chabrowe, John M.)
Saxon Paper Products, Inc., New York, N. Y. Bond paper. 277,466; Nov. 11; Serial No. 300,672; published Sept. 2, 1930. Class 37.
Saxon Paper Products, Inc., New York, N. Y. Bond paper. 277,467; Nov. 11; Serial No. 300,676; published Sept. 2, 1930. Class 37.
Schaefer, F. & M., Brewing Co., The, Brooklyn, N. Y. Malt beverage. 277,206; Nov. 11; Serial No. 303,349; published Aug. 26, 1930. Class 48.
Schering-Kahlbaum A. G., Berlin, Germany. Preparation for internal use. 277,289; Nov. 11; Serial No. 303,659; published Sept. 2, 1930. Class 6.
Schimmel & Co. Aktiengesellschaft, Miltitz, near Leipzig, Germany. Concentrated alcoholic essences. 277,416; Nov. 11; Serial No. 298,359; published Aug. 26, 1930. Class 46.
Schlesinger, Leo, Company, Inc., New York, N. Y. Devices for use in playing the game of bridge. 277,485; Nov. 11; Serial No. 298,366; published Aug. 26, 1930. Class 37.
Schmermund, William, St. Louis, Mo. Healing salve. 277,373; Nov. 11; Serial No. 302,483; published Sept. 2, 1930. Class 6.
Schwarz Laboratories, Inc., New York, N. Y. Measuring device. 277,263; Nov. 11; Serial No. 302,912; published Sept. 2, 1930. Class 26.
Schwarz, Max, Manufacturer of La Primadora Havana Cigars, Ltd., New York, N. Y. Packaged cigars. 277,228; Nov. 11; Serial No. 303,581; published Sept. 2, 1930. Class 17.
Scientific Exterminators Research Laboratories. (See Press, Myron H.)
Scott, Arthur H., Philadelphia, assignor to Scott Paper Company, Chester, Pa. Toilet paper. 79,793; renewed Oct. 4, 1930.
Scott-La Belle Corp., Seattle, Wash. Bath salts. 277,500; Nov. 11; Serial No. 300,091; published Aug. 26, 1930. Class 6.
Sears, Roebuck and Co., Chicago, Ill. Gun coats, vests, trousers, etc. 277,302; Nov. 11; Serial No. 302,040; published Aug. 26, 1930. Class 39.

Sears, Roebuck and Co., doing business as Diamond Medal Pen Co., Chicago, Ill. Fountain pens. 277,340; Nov. 11; Serial No. 279,757; published Aug. 26, 1930. Class 37.

Seeing Eye, The, Nashville, Tenn. Trained dogs. 277,362; Nov. 11; Serial No. 302,969; published Aug. 26, 1930. Class 11.

Sexton Manufacturing Company, Fairfield, Ill. Underwear and nightwear. 277,291; Nov. 11; Serial No. 303,215; published Aug. 26, 1930. Class 39.

Seymour Products Company, The, Seymour, Conn. Suitcase and trunk hardware. 277,268; Nov. 11; Serial No. 302,154; published Sept. 2, 1930. Class 13.

Sher, Noah P., Rochester, N. Y. Electrical supplies for automobiles. 277,286; Nov. 11; Serial No. 285,753; published Sept. 2, 1930. Class 21.

Sherman, Arthur G. S., doing business as The Covered Wagon Company, Detroit, Mich. Two-wheeled camping trailers. 277,169; Nov. 11; Serial No. 303,387; published Aug. 26, 1930. Class 19.

Sigma Alpha Epsilon, Evanston, Ill. Fraternity badges and lapel buttons. 277,162; Nov. 11; Serial No. 302,055; published Aug. 26, 1930. Class 28.

Silver, Hyman, doing business as Styptine Products, Brooklyn, N. Y. Astringent powder. 277,239; Nov. 11; Serial No. 302,697; published Aug. 12, 1930. Class 6.

Sinclair Refining Company. (See Union Petroleum Company, assignor.)

Smart & Company, Inc., Los Angeles, doing business as Dena Rosa and also as Dona Rosa Toiletries, Hollywood, assignor to Sontag Chain Stores Co. Ltd., Los Angeles, Calif. Cosmetics and toilet preparations. 277,409; Nov. 11; Serial No. 298,956; published Aug. 19, 1930. Class 6.

Smidth, F. L., & Co., New York, N. Y. Kilns, control equipment for kilns, parts of and appurtenances for kilns sold as complete kilns, etc. 277,405; Nov. 11; Serial No. 298,959; published Aug. 26, 1930. Class 34.

Smith, Bradner & Co., Chicago, Ill. Tag board, cover paper, and Bristol. 277,380; Nov. 11; Serial No. 303,464; published Sept. 2, 1930. Class 37.

Smith, E. J., & Son, Canton, Ohio. Preparation devoid of grit for cleaning painted walls, marble, etc. 277,505; Nov. 11; Serial No. 299,734; published Aug. 26, 1930. Class 4.

Smith, J. Allen, & Company, Knoxville, Tenn. Wheat flour. 81,174; renewed Mar. 7, 1931.

Société Anonyme Francaise Redfern, Paris, France. Perfumery goods. 277,414; Nov. 11; Serial No. 298,550; published Aug. 12, 1930. Class 6.

Societe Anonyme Jean Patou, Paris, France. Perfumes, toilet water, face powder, etc. 277,288; Nov. 11; Serial No. 303,661; published Sept. 2, 1930. Class 6.

Sontag Chain Stores Co. Ltd. (See Smart & Company, assignor.)

Southern Products Co. (See Mobile Grocery Company.)

Spencer, James W., doing business as Consolidated Drug Corp., New Orleans, La. Adhesive plaster, absorbent cotton, and gauze bandage. 277,196; Nov. 11; Serial No. 302,258; published Sept. 2, 1930. Class 44.

Sprayit Products, Inc., South Bend, Ind. Insecticides. 277,399; Nov. 11; Serial No. 303,219; published Sept. 2, 1930. Class 6.

Stafford, S. S., Inc., New York, N. Y. Copying, indelible, writing, etc., inks and stamp pad. 277,245; Nov. 11; Serial No. 301,310; published Sept. 2, 1930. Class 11.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Liquid floor wax. 277,191; Nov. 11; Serial No. 302,750; published Aug. 26, 1930. Class 16.

Sté. Anonyme Francaise Redfern, Paris, France. Perfumery goods. 277,413; Nov. 11; Serial No. 298,551; published Aug. 19, 1930. Class 6.

Stein A., & Company, Chicago, Ill. Hose supporters. 80,685; renewed Jan. 17, 1931.

Sterling Products (Incorporated). (See California Fig Syrup Co., assignor.)

Stolberg, Gregory B., doing business as Stolberg Laboratories, New York, N. Y. Antineuralgic and antipyretic. 277,421; Nov. 11; Serial No. 297,212; published Aug. 12, 1930. Class 6.

Studebaker Corporation, The, South Bend, Ind. Automotive vehicles and their component parts. 277,160; Nov. 11; Serial No. 303,404; published Aug. 26, 1930. Class 19.

Studebaker Corporation, The, South Bend, Ind. Automotive vehicles. 277,275; Nov. 11; Serial No. 303,405; published Aug. 26, 1930. Class 19.

Studebaker Corporation, The, South Bend, Ind. Hub caps. 277,299–300; Nov. 11; Serial Nos. 302,419–20; published Aug. 26, 1930. Class 19.

Styptine Products. (See Silver, Hyman.)

Sumet Corporation, Buffalo, N. Y. Cored and solid bars, castings, and drawn rods. 277,422; Nov. 11; Serial No. 296,500; published Aug. 26, 1930. Class 14.

Sun Tube Corporation, The, Hillside, N. J. Preparation or coating for the protection of packages and labels. 277,402; Nov. 11; Serial No. 303,665; published Sept. 2, 1930. Class 6.

Sund Mop and Broom Cleaner Co., Santa Rosa, Calif. Brooms and mops. 277,227; Nov. 11; Serial No. 303,666; published Sept. 2, 1930. Class 29.

Sunland Biscuit Co. (See Raulli, Ralph.)

Sweeper-Vac Company. (See Wright, M. S., Company.)

Sylvania Industrial Corporation, New York, N. Y. Sheets made of regenerated cellulose. 277,447; Nov. 11; Serial No. 302,224; published Aug. 26, 1930. Class 1.

Tank Car Stations Incorporated, Buffalo, N. Y. Gasoline. 277,155–6; Nov. 11; Serial Nos. 302,289–90; published Aug. 19, 1930. Class 15.

Tartricidgeselischaft m. b. H., Hagen, Germany. Chemicals for softening and purifying water. 277,433; Nov. 11; Serial No. 299,737; published Aug. 19, 1930. Class 6.

Tee-Lee Chemical Co., Houston, Tex. Insecticides, tonics, liniments, etc. 277,387; Nov. 11; Serial No. 302,086; published Aug. 19, 1930. Class 6.

Thompson, Loren O. (See Rogers & Thompson.)

Thrift Corporation, The, Houston, Tex. Casing-pulling machines, pump-tubing drains, hydraulic plugs, etc. 277,316; Nov. 11; Serial No. 302,702; published Aug. 26, 1930. Class 23.

Tioga-Empire Feed Mills, Inc., Waverly, N. Y. Poultry feed. 277,468; Nov. 11; Serial No. 300,691; published Aug. 19, 1930. Class 46.

Tras-Tine Chemical Company. (See Johnson, Ben L.)

Tredegar Company, The, Richmond, Va. Horse and mule shoes. 80,393; renewed Dec. 13, 1930.

Trooper Candy Co., Inc., Boston, Mass. Candy. 277,207; Nov. 11; Serial No. 303,308; published Aug. 26, 1930. Class 46.

Turner's Pharmacy, to G. Ernest Turner, doing business as Turner's Pharmacy, Richmond, Va., successor. Remedy for rheumatism, gout, and lumbago. 81,181; renewed Mar. 7, 1931.

Ullman, Herman E., Warrenton, Va. Coats and breeches, knickers, etc. 277,218; Nov. 11; Serial No. 302,421; published Aug. 12, 1930. Class 39.

Union Petroleum Company, Wilmington, Del., and Philadelphia, Pa., assignor to Sinclair Refining Company, New York, N. Y. Oil compound. 81,038; renewed Feb. 21, 1931.

United Biscuit Company of America, doing business as Hekman Biscuit Co., Chicago, Ill. Cookies. 277,264; Nov. 11; Serial No. 302,754; published Aug. 26, 1930. Class 46.

United Merchants of America, Inc., Cleveland, Ohio. Periodical publications. 277,489; Nov. 11; Serial No. 299,353; published Aug. 26, 1930. Class 38.

United States Envelope Company, Springfield, Mass. Book paper. 277,379; Nov. 11; Serial No. 303,408; published Sept. 2, 1930. Class 37.

U. S. Industrial Chemical Co. Incorporated, Baltimore, Md., and New York, N. Y. Ethyl acetate, diethyl oxalate, etc. 277,235; Nov. 11; Serial No. 302,920; published Aug. 12, 1930. Class 6.

U. S. Industrial Chemical Co. Incorporated, Baltimore, Md., and New York, N. Y. Cellulose acetate. 277,236; Nov. 11; Serial No. 302,919; published Aug. 12, 1930. Class 6.

Universal Draft Gear Attachment Co., Chicago, Ill. Hand wheel for car brakes. 277,249; Nov. 11; Serial No. 291,071; published Sept. 2, 1930. Class 19.

Universal Winding Company, assignor to Universal Winding Company, Boston, Mass. Winding machines. 35,788; renewed Jan. 15, 1931.

Utility Manufacturing Co., Inc., Baltimore, Md. Ice picks, kitchen forks, cake turners, etc. 277,350; Nov. 11; Serial No. 295,404; published Aug. 26, 1930. Class 23.

Val Bros., doing business as California Medicinal Wine Co., Los Angeles, Calif. Wine, champagne. 277,488; Nov. 11; Serial No. 299,291; published Sept. 2, 1930. Class 47.

Val Bros., doing business as California Medicinal Wine Co., Los Angeles, Calif. Wine, champagne. 277,508; Nov. 11; Serial No. 299,605; published Sept. 2, 1930. Class 47.

Veolay, Inc., New York, N. Y. Perfumes and face powder. 277,296; Nov. 11; Serial No. 302,841; published Aug. 26, 1930. Class 6.

Verlaine, Inc., assignor to Nicholas Putnam, Inc., New York, N. Y. Candy. 277,337; Nov. 11; Serial No. 283,314; published Aug. 26, 1930. Class 46.

Vitamin Company, The. (See Fairmont Realty Corporation.)

Walton, D. S., & Company, New York, N. Y. Dusters. 277,238; Nov. 11; Serial No. 302,708; published Sept. 2, 1930. Class 29.

Walton, Izaak, League of America, Chicago, Ill. Monthly publication. 277,478; Nov. 11; Serial No. 294,553; published Aug. 26, 1930. Class 38.

Washburn, F. B., & Co., Brockton, Mass. Candy. 81,041; renewed Feb. 21, 1931.

Waterman, Joseph S., & Sons, Inc., Boston, Mass. Burial caskets and cases therefor. 277,318; Nov. 11; Serial No. 302,501; published Aug. 26, 1930. Class 2.

Waterman, L. E., Company, New York, N. Y. Ink. 277,147; Nov. 11; Serial No. 303,358; published Sept. 2, 1930. Class 11.

Wax Paper Products Co., Omaha, Nebr. Cake and bread wrappers. 277,375; Nov. 11; Serial No. 302,709; published Aug. 26, 1930. Class 37.

Weber, Carl, Berlin-Charlottenburg, Germany. Extract and preparation of Bulgarian garlic. 277,461; Nov. 11; Serial No. 292,644; published Aug. 19, 1930. Class 6.

Weiner, J., & Co., Inc., Woodbridge, N. J. Beverages and sirups and extracts for making the same and spring water. 277,205; Nov. 11; Serial No. 303,359; published Aug. 26, 1930. Class 45.

Welded Products Co. Inc., Bell, Calif. Open-type flooring. 277,408; Nov. 11; Serial No. 298,872; published Sept. 2, 1930. Class 12.

Wenzel, Adolf, Gablonz, Szechoslovakia. Glass and crystal beads. 277,149; Nov. 11; Serial No. 302,877; published Sept. 2, 1930. Class 28.

Werk, M., Company, The, St. Bernard, Ohio. Soaps, soap flakes, soap powders, etc. 277,199; Nov. 11; Serial No. 301,538; published Aug. 26, 1930. Class 4.

West India Oil Company, Bayonne, N. J. Candles. 277,148; Nov. 11; Serial No. 303,139; published Aug. 26, 1930. Class 15.

White, George S., Los Angeles, Calif. Ano-perineal supports. 277,188; Nov. 11; Serial No. 303,232; published Aug. 26, 1930. Class 44.

Whittenton Manufacturing Co., Taunton, Mass., to Whittenton Manufacturing Co., Boston, Mass. Cotton flannels. 80,691; renewed Jan. 17, 1931.

Wieselman, Nathan, doing business as A-Gene Health Laboratories Co., St. Louis, Mo. Antiseptic tablets, cold capsules, tonic, etc. 277,498; Nov. 11; Serial No. 297,562; published Sept. 2, 1930. Class 6.

Williams, J. H., & Co., Buffalo, N. Y. Wrenches, wrench sets, wrench sockets, etc. 277,308–9; Nov. 11; Serial Nos. 303,521–2; published Sept. 2, 1930. Class 23.

Windsor Print Works, The, North Adams, Mass., and New York, N. Y., assignor to Consolidated Textile Corporation, New York, N. Y. Plain white, dyed, and printed percale. 80,333–4; renewed Dec. 6, 1930.

Windsor Print Works, The, North Adams, Mass., and New York, N. Y., assignor to Consolidated Textile Corporation, New York, N. Y. Cretonne. 80,504; renewed Dec. 27, 1930.

Windsor Print Works, The, North Adams, Mass., and New York, N. Y., assignor to Consolidated Textile Corporation, New York, N. Y. Wool and cotton mixed fabrics. 81,240; renewed Mar. 14, 1931.

Winona Metal Products Company, Winona, Minn. Sheet-metal pails, milk cans, etc. 277,255; Nov. 11; Serial No. 287,554; published Sept. 2, 1930. Class 2.

Wolin-Feinberg, Inc., New York, N. Y. Hosiery. 277,226; Nov. 11; Serial No. 303,360; published Aug. 26, 1930. Class 39.

Wollard, John P., doing business as Da-Light Floodlight Co., Kansas City, Mo. Metal reflectors. 277,297; Nov. 11; Serial No. 302,758; published Sept. 2, 1930. Class 34.

Won-Sol Chemical Co. (See Raicer, Samuel A.)

Worcester Salt Company, New York, N. Y. Salt. 277,365; Nov. 11; Serial No. 301,545; published Aug. 19, 1930. Class 6.

Worcester Salt Company, New York, N. Y. Salt. 277,388–90; Nov. 11; Serial Nos. 302,115–17; published Sept. 2, 1930. Class 6.

Wright, M. S., Company, doing business as Sweeper-Vac Company, Worcester, Mass. Electric vacuum cleaner. 277,175; Nov. 11; Serial No. 303,142; published Sept. 2, 1930. Class 21.

Yale and Towne Mfg. Co., The, Stamford, Conn. Push buttons. 277,157; Nov. 11; Serial No. 302,203; published Aug. 26, 1930. Class 21.

Yale and Towne Mfg. Co., The, Stamford, Conn. Escutcheons, door handles, door pulls, etc. 277,267; Nov. 11; Serial No. 302,204; published Aug. 26, 1930. Class 13.

Yale and Towne Mfg. Co., The, Stamford, Conn. Key-bitting machines. 277,323; Nov. 11; Serial No. 302,202; published Aug. 26, 1930. Class 23.

Yamada, James H., San Francisco, Calif. Preparation for dyeing hair. 277,432; Nov. 11; Serial No. 299,748; published Aug. 19, 1930. Class 6.

Yamade Co. (See McGuire, George W.)

Yellow Front Stores, Inc., Chicago, Ill. Canned fruits, canned vegetables, canned fish, etc. 277,301; Nov. 11; Serial No. 302,119; published Aug. 26, 1930. Class 46.

Yorkville Paper Company, New York, N. Y. Paper napkins. 277,382; Nov. 11; Serial No. 303,498; published Sept. 2, 1930. Class 37.

Youngstown Sheet & Tube Company, The, Youngstown, Ohio. Metal pipe and tubing. 277,426; Nov. 11; Serial No. 300,314; published Aug. 26, 1930. Class 13.

Zentz, M. E., doing business as Broncholine Company, Baltimore, Md. Preparation for the relief of coughs due to colds. 277,391; Nov. 11; Serial No. 302,121; published Sept. 2, 1930. Class 6.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS

Arena, A., & Co., Ltd., Los Angeles, Calif. Carnation. For Fresh Vegetables. 38,219; Nov. 11.

Bonomo, Albert, Coney Island, Brooklyn, N. Y. Bonomo's Salt Water Taffee. For Confections, Particularly Taffy Candy. 38,220; Nov. 11.

Bruno Olive Oil Company. (See Italian Importing Co. of New York, The.)

Buffalo Malt Co. Inc., Buffalo, N. Y. Buffalo-Barley Malt Syrup. For Malt Syrup. 38,221; Nov. 11.

Curtice Brothers Co., Rochester, N. Y. Certified Vitamin-Rich Nursery Foods. For Nursery Foods. 38,222; Nov. 11.

Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's New England Swedish Rye. For Rye Bread. 38,223; Nov. 11.

Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's Home Made Bread Sliced. For Bread. 38,224; Nov. 11.

Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's 50-50 Bread. For Bread. 38,225; Nov. 11.

Ermco Laboratory. (See Mansfield, E. R., Co. Inc.)

Falkingham, Percival E., New York, N. Y. Noel. For Perfumes. 38,226; Nov. 11.

Gardiner Manufacturing Company, Inc., Buffalo, N. Y. Gardiner Solution—Stains Run from 101. For Cleansing, Germicidal, Deodorizing, Disinfecting, Etc. 38,227; Nov. 11.

General Mills, Inc., Minneapolis, Minn. Wheaties. For Whole-Wheat Flakes with All the Bran. 38,228; Nov. 11.

Henry, Charles L., doing business as Marvelene Company, Blasdell, N. Y. Henry's Marvelene Solution. For Washing Solution. 38,229; Nov. 11.

Hudson Silk Hosiery Co., Inc., Charlotte, N. C. Quality. For Hosiery. 38,230; Nov. 11.

Italian Importing Co. of New York, The, doing business as Bruno Olive Oil Company, New York, N. Y. Golden Star. For Olive Oil. 38,231; Nov. 11.

Kemp, Edward F., Somerville, Mass. E. F. Kemp Salted Nuts Etc. For Salted Nuts. 38,232; Nov. 11.

Lee & Cady, Detroit, Mich. Imperial. For Mincemeat. 38,233; Nov. 11.

MacFarlane Nut Company, Oakland, Calif. Nature's Tastiest Morsels are Nuts. For Nut Meats and Nut Products. 38,234; Nov. 11.

Mansfield, E. R., Co. Inc., doing business as Ermco Laboratory, Los Angeles, Calif. Ermco. For Cleansing Cream. 38,235; Nov. 11.

Marvelene Company. (See Henry, Charles L.)

Minnesota Valley Canning Company, Le Sueur, Minn. Niblets. For Canned Corn. 38,236; Nov. 11.

Neuweiler's, Louis, Sons, Allentown, Pa. Canadian Pale. For a Malt Beverage. 38,237; Nov. 11.

North Side Packing Company, Pittsburgh, Pa. Victory Brand. For Butter. 38,238; Nov. 11.

Orsinger's Bakery, La Salle, Ill. Orsinger's Special. For Bread. 38,239; Nov. 11.

Sauquoit Paper Co., Inc., New Hartford, N. Y. Blu Kross. For Paper Cloth. 38,240; Nov. 11.

Soffos, Theodor G., doing business as Soffos Sweets Service System, New York, N. Y. Soffos Candy. For Candies. 38,241; Nov. 11.

Standard Harbourt's Drug Stores, The, Trenton, N. J. Harbourt's Menthol Balsam. For Medicinal Preparation for Coughs, Colds, Etc. 38,242; Nov. 11.

Thom Brothers, Hermiston, Oreg. B O Honey. For Honey. 38,243; Nov. 11.

Visco Chemical Products Co., The, Cleveland, Ohio. Visco Handy Household Oil. For Lubricating Oil, Etc. 38,244; Nov. 11.

Ward Baking Company, New York, N. Y. Tip-Top Sliced Sandwich Bread. For Bread. 38,245; Nov. 11.

Williams, J. B., Company, The, Glastonbury, Conn. Williams Dental Cream. For Dental Cream. 38,246; Nov. 11.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS

Cream of Wheat Corporation, The, Minneapolis, Minn. The Little Drakes, Two Jolly Nautical Spirits Descended from Sir Francis Himself. For Wheat Breakfast Food. 12,794; Nov. 11.

Cream of Wheat Corporation, The, Minneapolis, Minn. Could it be that My Husband was Ashamed of Our Boy? For Wheat Breakfast Food. 12,795; Nov. 11.

Enterprise Manufacturing Co., The, Akron, Ohio. Pflueger fishing tackle for every specie of game fish. For Fishing Tackle. 12,796; Nov. 11.

Pocahontas Operators Association, Bluefield, W. Va. How to fire Pocahontas coal. For Coal. 12,797; Nov. 11.

Pocahontas Operators Association, Bluefield, W. Va. How to Fire Pocahontas Coal the Conical method. For Coal. 12,798; Nov. 11.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. The Sun Pours Fragrance Into These Tobaccos. For Cigarettes. 12,799; Nov. 11.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Do You Really Know your Cigarette? For Cigarettes. 12,800; Nov. 11.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Gus Brought his Four Kids Etc. For Cigarettes. 12,801; Nov. 11.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. First For Pleasure. For Cigarettes. 12,802; Nov. 11.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Divertissements. For Cigarettes. 12,803; Nov. 11.

Reynolds, R. J., Tobacco Company. Winston-Salem, N. C. The Chorus. For Cigarettes. 12,804; Nov. 11.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. The Blend That Revolutionized Smoking. For Cigarettes. 12,805; Nov. 11.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Don't Deny Yourself the Luxury of Camels. For Cigarettes. 12,806; Nov. 11.

Whitten-Rader-Johnson Inc., Minneapolis, Minn. Colonial 4 O'Clock Coffee Club. For Coffee. 12,807; Nov. 11.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Agnew, Robert S., doing business as Merle Laboratories, Clarion, Pa. Medicine tablet. 305,469; Nov. 11. Class 6.

Albert Co., Hamilton, Ohio. Hand-soap paste. 305,471; Nov. 11. Class 4.

Amalgamated Roofing Company, Chicago, Ill. Outside coverings for the walls and roofs of buildings. 303,679; Nov. 11. Class 12.

American Cyanamid Company, New York, N. Y. Stable bedding, poultry litter, soil conditioner, etc. 298,776–8; Nov. 11. Class 1.

American Cyanamid Company, New York, N. Y. Seed disinfectants. 299,103; Nov. 11. Class 6.

Amtorg Trading Corporation, New York, N. Y. Matches. 272,121; Nov. 11. Class 9.

Apothecaries Hall Company, Waterbury, Conn. Seed corn. 306,217; Nov. 11. Class 1.

Arcturus Radio Tube Company, Newark, N. J. Light-sensitive cells. 305,261; Nov. 11. Class 21.

Arden, Elizabeth, Inc., New York, N. Y. Cosmetic creams, sunburn ointment, etc. 300,006; Nov. 11. Class 6.

Arlington Rubber Co., Dorchester, Mass. Golf balls. 305,957; Nov. 11. Class 22.

Arnold, M. N., Shoe Company, North Abington, Mass. Shoes. 303,731–4; Nov. 11. Class 39.

Associated Merchandising Corporation, New York, N. Y. Coats, hats, shoes, etc. 296,852; Nov. 11. Class 39.

Associated Merchandising Corporation, New York, N. Y. Hand bags and pocketbooks. 296,853; Nov. 11. Class 3.

Auzenblick, M., & Bro. Inc., Newark, N. J. Butter and eggs. 306,429; Nov. 11. Class 46.

Aunt Peetzy Co. (See Whittaker, Beatrice.)

Ayer Company, The, Lowell, Mass. Hand lotion, astringent, shampoo, etc. 305,511; Nov. 11. Class 6.

Badger Tissue Mills, Kaukauna, Wis. Toilet paper, paper towels, paper napkins, etc. 306,256; Nov. 11. Class 37.

Barclay, Nan, Chicago, Ill. Finger rings. 306,125; Nov. 11. Class 28.

Barnstone, Robert C., New York, N. Y. Watches, clocks, chronometers, etc. 306,227; Nov. 11. Class 27.

Barnstone, Robert C., New York, N. Y. Diamond finger rings, lockets, necklaces, etc. 306,228; Nov. 11. Class 28.

Barnwell Cucumber Growers Association, The. (See Harley, Joseph E., jr.)

Barnwell Growers Association. (See Harley, Joseph E., jr.)

Baskind, Louis, & Co., Inc., New York, N. Y. Shirts and pajamas. 305,893; Nov. 11. Class 39.

Bastian-Blessing Company, The, Chicago, Ill. Welding flux. 305,333; Nov. 11. Class 6.

Bauer, Max, Incorporated, New York, N. Y. Babies' and children's wearing apparel. 304,906; Nov. 11. Class 39.

Beadle, Eugene E., Waterbury, Conn. Apparatus and equipment for medicinal and surgical use. 304,123; Nov. 11. Class 44.

Bijur Lubricating Corporation, New York, N. Y. Lubricating oils. 305,994; Nov. 11. Class 15.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics. 306,083; Nov. 11. Class 42.

Bond Brothers, Company, Inc., The, Baltimore, Md. Asbestos-fibre roof cements. 303,618; Nov. 11. Class 12.

Bone Dry Shoe Manufacturing Company, Tacoma, Wash. Logger shoes. 303,415; Nov. 11. Class 39.

Borden, M. C. D., & Sons, Inc., New York, N. Y. Cotton and cotton and rayon mixed piece goods. 289,613; Nov. 11. Class 42.

Bradfield Motors, Inc., Wilmington, Del., and Chicago, Ill. Automobiles and taxicabs. 289,814; Nov. 11. Class 19.

Brennan, Edward J., doing business as The Crevisol Company, Harrisburg, Pa., assignors to Nasalets, Inc., New York, N. Y. Medicinal preparation. 298,687; Nov. 11. Class 6.

Bristol Seamless Ring Co. (See Kronstadt, Max.)

Bryant, Elizabeth, New York, N. Y. Preparation for promoting the growth of hair. 304,797; Nov. 11. Class 6.

Bulova Watch Company, Inc., New York, N. Y. Watches. 305,263; Nov. 11. Class 27.

Burt, John E., Philadelphia, Pa. Prophylactic rubber articles. 305,512; Nov. 11. Class 44.

Butler Aircraft Corporation, Kansas City, Mo. Aeroplanes. 289,501; Nov. 11. Class 19.

Calamari, D., Co., Chicago, Ill. Shelled nuts. 301,825; Nov. 11. Class 46.

California State Highway Patrolman, The. See Sparks, Richard S.)

Cambridge Glass Company, The, Cambridge, Ohio. Candlesticks made of glass. 305,744; Nov. 11. Class 34.

Cambridge Glass Co., The, Cambridge, Ohio. Glassware. 305,745; Nov. 11. Class 8.

Campbell, Mary R., doing business as M. R. Campbell and Co., Fort Wayne, Ind. Flesh-reducing preparations. 306,430; Nov. 11. Class 6.

Carborundum Company, The. Niagara Falls, N. Y. Tiles, treads, granular tread material, roof tiles. 280,692; Nov. 11. Class 12.

Carr, F. S., Company, Boston, Mass. Artificial leather. 306,391; Nov. 11. Class 50.

Catawba Candy Company, The, Sandusky, Ohio. Candy. 306,259; Nov. 11. Class 46.

Celanese Corporation of America, New York, N. Y. Yarns or threads. 305,695; Nov. 11. Class 43.

Cheney Brothers, South Manchester, Conn. Fabrics in the piece. 306,087; Nov. 11. Class 42.

Cheney Brothers, South Manchester, Conn. Fabrics in the piece. 306,129; Nov. 11. Class 42.

Confederation of Zonta Clubs, Incorporated, Chicago, Ill. Club badges, pins, and finger rings. 294,801; Nov. 11. Class 28.

Con-Ferro Paint & Varnish Company, St. Louis, Mo. Lacquer, paint enamel, paint thinner, and bronze paint. 303,419; Nov. 11. Class 16.

Cordrey, Hannah E., doing business as O I C Produce Co., Salisbury, Md. Fresh cantaloupes. 305,997; Nov. 11. Class 46.

Crawford-Austin Manufacturing Company, Waco, Tex. Ice-cream-packers' milk-can jackets and tub covers. 305,748; Nov. 11. Class 2.

Crevisol Company, The. (See Brennan, Edward J.)

Crucible Steel Casting Company, Cleveland, Ohio. Finished castings. 293,212; Nov. 11. Class 23.

D. & M. Machine Works, Torrance, Calif. Pumps and pump parts and pump accessories. 297,801; Nov. 11. Class 23.

David & Blum Inc., New York, N. Y. Gloves. 305,659; Nov. 11. Class 39.

Dedham Finishing Company, Dedham, Mass. Cotton woven fabric. 304,238; Nov. 11. Class 42;

Deli, Samuel M., & Co., Inc., Baltimore, Md. Paintbrushes. 297,420; Nov. 11. Class 29.

Devine & Yungel Shoe Mfg. Co., Harrisburg, Pa. Leather shoes. 304,943; Nov. 11. Class 39.

Dexdale Hosiery Mills, Lansdale, Pa. Hosiery. 305,698; Nov. 11. Class 39.

Dixon, William, Incorporated, Newark, N. J. Dental appliances and materials. 286,426; Nov. 11. Class 44.

Dobbs & Co., New York, N. Y. Fancy textile cases, feather hat ornaments, mourning bands, boudoir dolls, etc. 300,176; Nov. 11. Class 40.

Du Bato, Charles J., doing business as Du Bato Products Co., New York, N. Y. Composition for treating stockings and the like. 303,000; Nov. 11. Class 6.

Dun Deer Sandals, Inc., Auburn, N. Y. Boots and shoes. 305 750; Nov. 11. Class 39.

Du Pont Viscoloid Company, New York, N. Y. Thermoplastic materials. 304,999; Nov. 11. Class 1.

Durable Knitting Mills, Philadelphia, Pa. Sweaters and sweater coats. 304,610; Nov. 11. Class 39.

Ellman, Jacob L., doing business as The Ephedrine Company, University City, Mo. Various preparations for relief of nasal mucosa affections. 305,310; Nov. 11. Class 6.

Else, Herman J., doing business as L. C. Products Co., Fairview Village, Ohio. Chocolate pudding, cocoanut cream custard, lemon-flavor pie filling, etc. 287,402; Nov. 11. Class 46.

Ephedrine Company, The. (See Ellman, Jacob L.)

Eskimo Pie Corporation, Louisville, Ky. Candy covering for frozen confections. 303,632; Nov. 11. Class 46.

Eskimo Pie Corporation, Louisville, Ky. Ice cream. 303,633; Nov. 11. Class 46.

Eskimo Pie Corporation, Louisville, Ky. Candy covering for frozen confections. 303,636; Nov. 11. Class 46.

Ewing, Marie, Oregon City, Oreg. Soap. 290,061; Nov. 11. Class 4.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Florida Fruit Canners, Inc., Frostproof, Fla. Fruit juices. 305,272; Nov. 11. Class 46.

Food Products Co., New York, N. Y. Buttermilk, sour milk, and frozen milk. 306,234; Nov. 11. Class 46.

Four-Wheel Traction Company, New York, N. Y. Tractors and parts thereof. 305,073; Nov. 11. Class 23.

Frame, H. T., Rockland, Ohio. Salted peanuts and chocolate coated raisins. 304,719; Nov. 11. Class 46.

Franklin Ice Cream Corporation, The Kansas City, Mo. Ice cream. 302 856; Nov. 11. Class 46.

Franklin Laboratories, Inc., Columbus, Ohio. Fertilizer and nitrogen-fixing bacteriological composition for inoculation of seeds and the like. 304,320; Nov. 11. Class 10.

Franklin Process Company, Providence, R. I. Dyed thread and yarn. 305,970; Nov. 11. Class 43.

Gemex Company, Newark, N. J. Watch bracelets, watch straps, watch attachments. 300,793; Nov. 11. Class 28.

General Motors Corporation, Detroit, Mich. Tire covers. 305,354; Nov. 11. Class 35.

Gerber & Company, Inc., New York, N. Y. Cheese. 305,041; Nov. 11. Class 46.

Ginseng Products Corp., Oregon City, Oreg. Beverage. 306,313; Nov. 11. Class 45.

Glaser, Louis J., Rochester, N. Y. Ceramic goods. 289,969; Nov. 11. Class 30.

Gotham Silk Hosiery Company, Inc., New York, N. Y. Hosiery. 305,571; Nov. 11. Class 39.

Grand Metal Goffy Co. (See Lafaye, Carlos.)

Great Atlantic & Pacific Tea Company, The, New York, N. Y. Canned salmon. 303,942–3; Nov. 11. Class 46.

Green, H. O., Napoleon, Ohio. Condensed motor oil. 304,137; Nov. 11. Class 15.

Greenbaum, Harry L., doing business as Technical Color and Chemical Works, Brooklyn, N. Y. Deodorizers, laundry starch, etc. 281,607; Nov. 11. Class 6.

Griswoldville Mfg. Company, New York, N. Y. Certain textile fabric. 304,769; Nov. 11. Class 42.

Gross, Benjamin & Edward J., Co. Inc., New York, N. Y. Finger rings and mountings therefor. 305,853–7; Nov. 11. Class 28.

Gross, Benjamin & Edward J., Co. Inc., New York, N. Y. Finger rings and mountings therefor. 305,859–60; Nov. 11. Class 28.

Guenther, Paul, Inc., New York, N. Y. Hosiery. 305,527; Nov. 11. Class 39.

Guttknecht, J. W., Stein, near Nuremberg, Germany. Drafting instruments. 298,386; Nov. 11. Class 26.

Guttknecht, J. W., Stein, near Nuremberg, Germany. Drafting instruments. 298,389–90; Nov. 11. Class 26.

Hard & Rand, Inc., New York, N. Y. Coffee. 302,319; Nov. 11. Class 46.

Harley, Joseph E., jr., doing business as The Barnwell Cucumber Growers Association and as Barnwell Growers Association, Barnwell, S. C. Fresh cucumbers and watermelons. 300,518; Nov. 11. Class 46.

Harter Packing Company, The, Yuba City, Calif. Canned fruits. 305,400–2; Nov. 11. Class 46.

Hastings, John J., doing business as Irish Products Co., Boston, Mass. Malt syrup. 305,971; Nov. 11. Class 46.

Hickok Manufacturing Company, Inc., Rochester, N. Y. Men's garters or hose supporters. 304,867; Nov. 11. Class 39.

Hodgman Rubber Co., Framingham, Mass. Rubberized textile fabric. 305,277; Nov. 11. Class 50.

Hotchkiss, J. S., & Bro. Co., Meadville, Pa. Mustard, pickles, olives, canned fruits, etc. 304,461; Nov. 11. Class 46.

House of Crane, Inc., The, Indianapolis, Ind. Smoking tobacco. 305,897; Nov. 11. Class 17.

Hutchinson, Charles W., doing business as Tackett Medicine Company, Huntington, W. Va. Liquid preparation for treating rheumatism, stomach trouble, etc. 303,225; Nov. 11. Class 6.

Hygienic Laboratories. (See Spencer, J. W.)

Ideal Trading Co. (See Lichtenstein, William.)

Indiana Limestone Company, Bedford, Ind., and New York, N. Y. Building stone as it comes from the quarry. 301,444–5; Nov. 11. Class 12.

International Products Corporation, New York, N. Y. Canned meats. 293,326; Nov. 11. Class 46.

International Shoe Co., St. Louis, Mo. Boots and shoes. 305,708; Nov. 11. Class 39.

International Ticket Scale Corporation, New York, N. Y. Weighing scales. 289,680; Nov. 11. Class 26.

Irish Products Co. (See Hastings, John J.)

Jacobson & Company, New York, N. Y. Slabs, casts, bands, and placques of composition material. 305,187; Nov. 11. Class 12.

Jawine Co., The. (See Weinberger, Julius A.)

Jewelers Publishing Corporation, New York, N. Y. Leaflet. 297,532; Nov. 11. Class 38.

Josephson Disinfecting Co., Inc., Bronx, N. Y. Insect exterminator, disinfectant, deodorant, and insecticide. 305,359; Nov. 11. Class 6.

Julian & Kokenge Company, The, Cincinnati, Ohio. Shoes. 288,913; Nov. 11. Class 39.

Kay Laboratories, Inc., West Haverstraw, N. Y., assignor to Kay-Fries Chemicals, Inc. Agricultural insecticides. 298,703; Nov. 11. Class 6.

Kells Company, Inc., The, Newburgh, N. Y. Medicinal preparation. 305,711; Nov. 11. Class 6.

Klein, Mathias, & Sons, Chicago, Ill. Snaps and D rings for climber belts and safety straps. 305,815; Nov. 11. Class 13.

Knight, R. B. & R., Corporation, Providence, R. I. Textiles. 305,666; Nov. 11. Class 42.

Kohnstamm, H., & Co., Inc., New York, N. Y. Cleaning powder. 302,309; Nov. 11. Class 4.

Krank, A. J., Company, St. Paul, Minn. Face lotion. 306,318; Nov. 11. Class 6.

Kresge Department Store Corporation, Newark, N. J. Dress shirts, pajamas, socks, etc. 303,058–9; Nov. 11. Class 39.

Kronstadt, Max, doing business as Bristol Seamless Ring Co., New York, N. Y. Finger rings. 298,637; Nov. 11. Class 28.

Kuehnle, Inc., Philadelphia, Pa. Valve-grinding compound, automobile and hand soap, chromium plate cleaner, etc. 305,405; Nov. 11. Class 4.

Kuehnle Inc., Philadelphia, Pa. Antifreeze for automobile radiators, automobile radiator cement and cleaner. 305,407; Nov. 11. Class 6.

Kuehnle, Inc., Philadelphia, Pa. Tire paint, touch-up enamel, automobile body polish, etc. 305,408; Nov. 11. Class 16.

Kurz, H. C., A. G., Nuremberg, Germany. Pencils and crayons. 305,783; Nov. 11. Class 37.

L. C. Products Co. (See Else, Herman J.)

Lafaye, Carlos, doing business as Grand Metal Goffy Co., Hato Rey, San Juan, P. R., and New York, N. Y. Corn-product confection. 305,045; Nov. 11. Class 46.

Lamp Studio, The, Utica, N. Y. Dolls. 305,905; Nov. 11. Class 22.

Laurel Soap Manufacturing Co., Inc., Philadelphia, Pa. Lubricating oils for knitting machines. 293,883; Nov. 11. Class 15.

Lea Fabrics Inc., Newark, N. J. Pile fabrics as a unit simulating grass. 306,681; Nov. 11. Class 50.

Lederle Laboratories Incorporated, New York, N. Y. Acne vaccine, antianthrax serum, cholera vaccine, etc. 305,932; Nov. 11. Class 6.

Lenoir Book Company, Lenoir, N. C. Stationary tablets and composition books. 298,504; Nov. 11. Class 37.

Levine, Marcy, doing business as Marcy Laboratories, New York, N. Y. Laxatives. 306,405; Nov. 11. Class 6.

Lewis, Claude A., Houston, Tex. Metal key holders. 305,712; Nov. 11. Class 13.

Lichtenstein, William, doing business as Ideal Trading Co., New York, N. Y. Food products. 304,055; Nov. 11. Class 46.

Lilly, Eli, and Company, Indianapolis, Ind. Agar, alkaline aromatic, alum compound, etc. 305,618–19; Nov. 11. Class 6.

Lion Match Company, Inc., New York, N. Y. Matches. 306,359; Nov. 11. Class 9.

Lionel Trading Co. Inc., New York, N. Y. Lip sticks. 303,060; Nov. 11. Class 6.

Longview Lime Works, Longview, Ala. Lime. 305,867; Nov. 11. Class 12.

Lugene Inc., New York, N. Y. Lorgnettes, eyeglasses, and spectacles and constituent parts thereof, etc. 305,141; Nov. 11. Class 26.

Luther, P. H., Los Angeles, Calif. Hats. 267,136; Nov. 11. Class 39.

Luther, P. H., Los Angeles, Calif. Hats. 290,134; Nov. 11. Class 39.

Mackintosh, John, & Sons Ltd. Inc., Boston, Mass. Candy. 306,274; Nov. 11. Class 46.

Mallory, P. R., & Co Incorporated, Indianapolis, Ind. Metal inserts for backing dies for arc welding machines. 305,113; Nov. 11. Class 14.

Manhattan Rubber Mfg. Co., The, Passaic, N. J., assignor to Raybestos-Manhattan, Inc. Fire hose. 289,197; Nov. 11. Class 35.

Marcy Laboratories. (See Levine, Marcy).

Marshall & Bell, Atlanta, Ga. Medicine. 305,579; Nov. 11. Class 6.

Marval-Ac Co., San Jose, Calif. Cleaning compounds. 305,533; Nov. 11. Class 4.

May Department Stores Company, New York, N. Y. Toilet preparations, toilet articles, and cosmetics. 286,644; Nov. 11. Class 6.

Merle Laboratories. (See Agnew, Robert S.)

Minatex Sample Company, Dallas, Tex. Display samples. 304,779; Nov. 11. Class 50.

Mondaine Products Corporation, New York, N. Y. Combination vanity and cigarette compartment cases, and compacts, etc. 301,493; Nov. 11. Class 50.

Mondaine Products Corporation, New York, N. Y. Combination cigarette and vanity compartment cases, and compacts, etc. 306,103; Nov. 11. Class 50.

Moran, John A., New York, N. Y. Milk food beverage. 287,088; Nov. 11. Class 46.

Morgenstern, Felix, doing business as Morgenstern Chemical Co., New York, N. Y. Medicinal preparation. 304,880; Nov. 11. Class 6.

Mystery League, Inc., New York, N. Y. Printed books. 303,819; Nov. 11. Class 38.

Nachman Spring-Filled Corporation, Chicago, Ill. Mattresses. 306,360–1; Nov. 11. Class 32.

Nasalets, Inc. (See Brennan, Edward J., assignor.)

National Bellas Hess Co., Inc., New York, N. Y. Suits and overcoats. 304,567–8; Nov. 11. Class 39.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Nature's Herb Company, San Francisco, Calif. Laxatives. 303,649; Nov. 11. Class 6.
News Printing Company, Paterson, N. J. Daily newspaper. 305,934; Nov. 11. Class 38.
Nicholson File Company, Providence, R. I. Files and rasps. 304,881; Nov. 11. Class 23.
Nier, Hermann, Beierfeld, Germany. Hurricane lamps, filling screws, burners, etc. 300,883; Nov. 11. Class 34.
Nolde & Horst Company, The, Reading, Pa. Hosiery. 305,674; Nov. 11. Class 39.
Nyanza Color & Chemical Co. Inc., New York, N. Y. Chemical compounds. 305,583; Nov. 11. Class 6.
O I C Produce Co. (See Cordrey, Hannah E.)
Oakes Manufacturing Company, The, Tipton, Ind. Thermostatic diaphragms. 305,450–1; Nov. 11. Class 26.
Ocklawaha Nurseries, Inc., Lake Jem, Fla. Orange trees. 305,787; Nov. 11. Class 1.
Onyx Oil & Chemical Co., Jersey City, N. J. Preparation for application to textile fibers and fabrics for imparting a dull finish thereto. 306,456; Nov. 11. Class 6.
Onyx Oil & Chemicdl Co., Jersey City, N. J. Preparation for application to textile fibers and fabrics for imparting a soft glovy or chamois feel. 306,457; Nov. 11. Class 6.
Orzyme Laboratories, Pittsburg, Kans. Medicinal preparation. 305,452; Nov. 11. Class 6.
Palmer House Company, Chicago, Ill. Coffee and olives. 305,909; Nov. 11. Class 46.
Parker Brothers, Inc., Portland, Me., and Salem, Mass. Board game. 305,675; Nov. 11. Class 22.
Passman, Otto, Baltimore, Md. Healing salve. 305,772; Nov. 11. Class 6.
Patricia Petticoat Co. Inc., The, New York, N. Y. Silk undergarments. 305,761; Nov. 11. Class 39.
Penny, Salvatore, doing business as Rheumatol Co., Palisades, N. J. Medicine. 276,376; Nov. 11. Class 6.
Pepperell Manufacturing Company, Boston, Mass. Textile sheets and sheetings. 305,622; Nov. 11. Class 42.
Perkins Hosiery Mills, Columbus, Ga. Knitted and woven fabrics. 306,104; Nov. 11. Class 42.
Pharma-Max Loebinger & Co., Berlin-Charlottenburg, Germany. Cod-liver oil. 304,847; Nov. 11. Class 6.
Phoenix Manufacturing Company, Joliet, Ill. Calks for horse and mule shoes. 302,186; Nov. 11. Class 8.
Platter Cabinet Company, The, North Vernon, Ind. Phonograph instruments. 270,391; Nov. 11. Class 36.
Polox Manufacturing Company, Merriam, Kans. Combined adhesive cement and solder. 304,425; Nov. 11. Class 5.
Postum Company, Inc., Battle Creek, Mich., and New York, N. Y. Cereal breakfast foods. 305,492; Nov. 11. Class 46.
Premier Co. Inc., The, New York, N. Y. Manicure implements. 305,368; Nov. 11. Class 44.
Procter & Gamble Company, The, Cincinnati, Ohio. Soap. 306,071; Nov. 11. Class 4.
Pro-phy-lac-tic Brush Company, The, Northampton, Mass. Toothbrushes. 305,876; Nov. 11. Class 29.
Public Service Bureau of Los Angeles, The. (See Sparks, Richard S.)
Quint, Abraham J., doing business as A. Quint & Company, Chicago, Ill. Finger rings. 306,285; Nov. 11. Class 28.
Randolph Marketing Company, Los Angeles, Calif. Fresh deciduous fruits and fresh citrus fruits. 302,025; Nov. 11. Class 46.
Rasmussen, Geo., Co., Chicago, Ill. Cake, canned fruits, canned fish, etc. 294,688; Nov. 11. Class 46.
Raybestos-Manhattan, Inc. (See Manhattan Rubber Mfg. Co., The, assignor.)
Reich, Ernest, doing business at Chicago, Ill. Food containers, cups, saucers, and plates. 304,670; Nov. 11. Class 13.
Remco Gauge Co., Inc., St. Louis, Mo. Gauges for measuring liquids. 306,461; Nov. 11. Class 26.
Rheumatol Co. (See Penny, Salvator.)
Rhodes Metallic Packing Company, Detroit, Mich. Metallic packing. 296,444; Nov. 11. Class 35.
Richmond Hosiery Mills, Rossville, Ga. Hosiery. 305,678; Nov. 11. Class 39.
Roper, Geo. D., Corporation, Rockford, Ill. Pumps. 304,428; Nov. 11. Class 23.
Rorer, William H., Inc., Philadelphia, Pa. Rectal suppositories. 284,639; Nov. 11. Class 6.
Rosenblatt, Louis C., New York, N. Y. Dresses and frocks. 305,015; Nov. 11. Class 39.
Rothenberg, Murray & Co., Inc., New York, N. Y. Boys' shirts and blouses. 305,823; Nov. 11. Class 39.
Ruselite Corporation, Milwaukee, Wis. Aluminum alloys. 304,386; Nov. 11. Class 14.
Rush, Grace A., Inc., Hyde Park, Cincinnati, Ohio. Fruit cakes, mapled pecans, mint almonds, etc. 302,191; Nov. 11. Class 46.
Sears, Roebuck and Co., Chicago, Ill. Garden hose. 302,490; Nov. 11. Class 35.
Sears, Roebuck and Co., Chicago, Ill. Food choppers. 306,372; Nov. 11. Class 23.
Seeman Brothers, Inc., New York, N. Y. Maltless fruit powders used for soft drinks. 304,636–7; Nov. 11. Class 45.
Self Re-Heel Top, Inc., Brooklyn, N. Y. Heels. 303,753; Nov. 11. Class 39.
Sheridan, Frances, New York, N. Y. Beauty creams. 305,682; Nov. 11. Class 6.
Shivitz, Max H., Inc., New York, N. Y. Coats and suits. 305,499; Nov. 11. Class 39.
Shoemaker, Samuel W., Bartlesville, Okla. Wood sign holders. 304,789; Nov. 11. Class 50.
Smith, Glenn A., Los Angeles, Calif. Petroleum and products of petroleum. 300,151; Nov. 11. Class 15.
Société Anonyme Française Redfern, Paris, France. Perfumery goods. 303,582; Nov. 11. Class 6.
Society of Chemical Industry in Basle, Basel, Switzerland. Chemical substance. 306,424; Nov. 11. Class 6.
Sparks, Richard S., doing business as The Public Service Bureau of Los Angeles and The California State Highway Patrolman. Los Angeles, Calif. Periodical publication. 305,198; Nov. 11. Class 38.
Spencer, J. W., doing business as Hygienic Laboratories, New Orleans, La. Antiseptic, germicidal, and therapeutic composition. 306,249; Nov. 11. Class 6.
Stamford Wall Paper Company, Incorporated, Stamford, Conn. Wall paper. 306,041; Nov. 11. Class 37.
Steinberg Brothers, Philadelphia, Pa. Suits, trousers, vests, knickers, etc. 304,976; Nov. 11. Class 39.
Stevens-Van Engelen Company, Salt Lake City, Utah. Overalls, coveralls, mechanics' suits, and jumpers. 304,591; Nov. 11. Class 39.
Superior Laboratories, Inc., Cleveland, Ohio. Nonpoisonous liquid used to destroy mosquitoes, etc. 305,630; Nov. 11. Class 6.
Sy-Fill Mfg. Co., San Francisco, Calif. Bottle capping and filling machine. 306,250; Nov. 11. Class 23.
Tackett Medicine Company. (See Hutchinson, Charles W.)
Technical Color and Chemical Works. (See Greenbaum, Harry L.)
Texas Company, The, Wilmington, Del., and New York, N. Y. Dampproofing, waterproofing, priming, and coating paints. 303,519; Nov. 11. Class 16.
Texas Fig, Incorporated, Sugar Land, Tex. Canned preserved figs. 296,031; Nov. 11. Class 46.
Timme, E. F., & Son, New York, N. Y. Pile fabrics. 305,735; Nov. 11. Class 42.
Timme, E. F., & Son, New York, N. Y. Pile fabrics. 305,770; Nov. 11. Class 42.
Trimble, Arthur G., Pittsburgh, Pa. Pens, pencils, and combination pens and pencils. 297,992; Nov. 11. Class 37.
Two Rivers Beverage Company, Two Rivers, Wis. Cereal malt beverage. 301,218; Nov. 11. Class 48.
Universal Rayon Underwear Corporation, New York, N. Y. Rayon underwear. 290,482; Nov. 11. Class 39.
Vitaglass Corporation, New York, N. Y. Glass screens for arc lamps, glass bulbs for electric lamps, and glass tubes for ultra-violet lamps. 271,785; Nov. 11. Class 44.
Viville (Paris) Inc., New York, N. Y. Soaps and shaving creams. 306,152–7; Nov. 11. Class 4.
Viville (Paris), Inc., New York, N. Y. Soaps and shaving creams. 306,207; Nov. 11. Class 4.
Wampole, Henry K., and Company, Incorporated, Philadelphia, Pa. Antiseptic solution. 306,209; Nov. 11. Class 6.
Webb & Company, Newtonwards, Northern Ireland. Towels, diapers of linen. 304,171; Nov. 11. Class 42.
Weinberger, Julius A., doing business as The Jawine Co., New York, N. Y. Wool yarns. 302,711; Nov. 11. Class 43.
Wellman, Peck & Co., San Francisco, Calif. Coffee. 306,212; Nov. 11. Class 46.
White, Jay J., Inc., Philadelphia, Pa. Vehicle springs. 306,115; Nov. 11. Class 19.
White Metal Caster's Association, Inc., New York, N. Y. Rhinestones and rhinestone jewelry for personal wear. 304,898; Nov. 11. Class 28.
Whitney, Howard, South Pasadena, Calif. Fresh citrus fruits. 306,160; Nov. 11. Class 46.
Whittaker, Beatrice, doing business as Aunt Feetzy Co., New York, N. Y. Spanish pepper sauce. 305,890; Nov. 11. Class 46.
Wilkes, Henry, & Co., Limited, Warwick, England. Fishhooks. 304,442; Nov. 11. Class 22.
Williamson Candy Co., Chicago, Ill. Candy. 306,294; Nov. 11. Class 46.
Williamsport Wire Rope Company, Williamsport, Pa. Wire rope. 297,395–401; Nov. 11. Class 7.
Wilson & Toomer Fertilizer Co., Jacksonville, Fla. Fertilizers and fertilizer materials. 305,302; Nov. 11. Class 10.
Wood-Mosaic Co., Inc., Louisville, Ky. Lumber. 305,553; Nov. 11. Class 12.
Wüsthof, Ed., Solingen, Germany. Meat-serving knives, oyster openers, and oyster forks, etc. 292,381; Nov. 11; Class 23.
Wyandotte Oil & Fat Company, The, Cleveland, Ohio. Hydrogenated fats. 302,759; Nov. 11. Class 15.
X. Pel Process Co., South Bend, Ind. Body deodorants and local perspiration astringents. 306,221; Nov. 11. Class 6.
Zoske, William A., Rochester, N. Y. Cakes. 298,681; Nov. 11. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Reliable Coal & Mining Co. 277,364; Nov. 11; Serial No. 303,006; published Aug. 26, 1930.
Compounds for use in casting metals, Parting. Kelly Graphite Mills, Inc. 277,339; Nov. 11; Serial No. 281,006; published Aug. 19, 1930.
Diatomaceous earth, kieselguhr, infusorial-earth fillers, etc. Dicalite Company. 277,507; Nov. 11; Serial No. 299,688; published Sept. 2, 1930.
Dogs, Trained. Seeing Eye. 277,362; Nov. 11; Serial No. 302,969; published Aug. 26, 1930.
Earth, fillers, heat insulation, etc. Dicalite Company. 277,506; Nov. 11; Serial No. 299,689; published Aug. 26, 1930.
Leather. Geo. Laub's Sons. 277,501; Nov. 11; Serial No. 300,069; published Aug. 19, 1930.
Mineral material, Finely divided. Celite Corporation. 277,495; Nov. 11; Serial No. 295,362; published Aug. 26, 1930.
Resins. International Combustion Tar & Chemical Corporation. 277,446; Nov. 11; Serial No. 302,401; published Aug. 26, 1930.
Sheets made of regenerated cellulose. Sylvania Industrial Corporation. 277,447; Nov. 11; Serial No. 302,224; published Aug. 26, 1930.
Sponges and chamois. Gulf Specialty Sales, Inc. 277,363; Nov. 11; Serial No. 302,895; published Aug. 26, 1930.
Stone, Building. Indiana Limestone Company. 277,449–53; Nov. 11; Serial Nos. 301,458–62; published Sept. 2, 1930.
Stone, Building. Indiana Limestone Company. 277,454; Nov. 11; Serial No. 301,455; published Sept. 2, 1930.
Stone, Building. Indiana Limestone Company. 277,455; Nov. 11; Serial No. 301,451; published Sept. 2, 1930.
Stone, Building. Indiana Limestone Company. 277,456; Nov. 11; Serial No. 301,449; published Sept. 2, 1930.
Stone, Building. Indiana Limestone Company. 277,457–8; Nov. 11; Serial Nos. 301,446–7; published Sept. 2, 1930.
Stone, Building. Indiana Limestone Company. 277,459–60; Nov. 11; Serial Nos. 301,442–3; published Sept. 2, 1930.

CLASS 2

Baskets, etching frames, and dipping baskets, Etching. American Hard Rubber Company. 277,277; Nov. 11; Serial No. 303,364; published Aug. 26, 1930.
Boxes and coffee-retaining bags, Silverware and cutlery. Firebrand Kitchen Equipment Company. 277,287; Nov. 11; Serial No. 285 503; published Aug. 26, 1930.
Boxes and crates. Guilford C. Babcock. 277,322; Nov. 11; Serial No. 302,229; published Aug. 26, 1930.
Cartons, Cardboard. Hermeton Limited. 277,182; Nov. 11; Serial No. 302,181; published Aug. 26, 1930.
Cases, Portable. Neptune Storage Van Co. 277,290; Nov. 11; Serial No. 303,609; published Sept. 2, 1930.
Caskets and cases therefor. Joseph S. Waterman & Sons, Inc. 277,318; Nov. 11; Serial No. 302,501; published Aug. 26, 1930.
Flasks, shirt cases, tie cases, etc. Dobbs & Co. 277,430; Nov. 11; Serial No. 299,900; published Aug. 26, 1930.
Pails, milk cans, etc. Winona Metal Products Company. 277,255; Nov. 11; Serial No. 287,554; published Sept. 2, 1930.
Trays. International Combustion Tar & Chemical Corporation. 277,320; Nov. 11; Serial No. 302,403; published Sept. 2, 1930.
Vaults, Burial. Benisch Brothers, Inc. 277,266; Nov. 11; Serial No. 302,663; published Aug. 26, 1930.

CLASS 3

Compact cases, bill folds, portfolios, etc. C. J. Butterfield. 277,472; Nov. 11; Serial No. 300,923; published Aug. 26, 1930.
Horse and mule shoes. Tredegar Company. 80,393; renewed Dec. 13, 1930.

CLASS 4

Preparation devoid of grit for cleaning painted walls, etc. E. J. Smith & Son. 277,505; Nov. 11; Serial No. 299,734; published Aug. 26, 1930.
Scythestones, whetstones, and abrasive sharpening stones. Pike Manufacturing Company. 277,202–3; Nov. 11; Serial Nos. 303,543–4; published Sept. 2, 1930.
Soap. McCourt & McCourt. 277,509; Nov. 11.
Soap. Oro Manufacturing Co. 277,328; Nov. 11; Serial No. 287,157; published Aug. 26, 1930.
Soap, Dry-cleaning. Huntington Laboratories, Inc. 277,187; Nov. 11; Serial No. 303,330; published Aug. 26, 1930.
Soap, Dry-cleaning. Huntington Laboratories, Inc. 277,278; Nov. 11; Serial No. 303,329; published Aug. 26, 1930.
Soap, Toilet. Plough, Inc. 277,204; Nov. 11; Serial No. 303,488; published Sept. 2, 1930.
Soaps, soap flakes, soap powders, etc. M. Werk Company. 277,199; Nov. 11; Serial No. 301,538; published Aug. 26, 1930.
Solution to be applied to vehicle windshields, window panes, and the like for the prevention of the collection of dirt, moisture, steam, etc., thereon. F. M. Howard. 277,477; Nov. 11; Serial No. 294,531; published Aug. 26, 1930.
Washing fluid. L. Massa. 277,491; Nov. 11; Serial No. 296,706; published Aug. 26, 1930.

CLASS 5

Glue. Perkins Glue Company. 277,445; Nov. 11; Serial No. 302,443; published Aug. 26, 1930.

CLASS 6

Antineuralgic and antipyretic. G. B. Stolberg. 277,421; Nov. 11; Serial No. 297,212; published Aug. 12, 1930.
Antiseptic, Drinking-water. B. Reese. 277,398; Nov. 11; Serial No. 303,211; published Sept. 2, 1930.
Antiseptic or disinfecting chemical compound. Hance Brothers & White, Inc. 277,371; Nov. 11; Serial No. 302,434; published Aug. 26, 1930.
Antiseptic tablets. W. C. Eden. 277,181; Nov. 11; Serial No. 302,305; published Aug. 19, 1930.
Antiseptic tablets, cold capsules, tonic, etc. N. Wieselman. 277,498; Nov. 11; Serial No. 297,562; published Sept. 2, 1930.
Balm preparation. Knox Company. 277,244; Nov. 11; Serial No. 301,951; published Aug. 12, 1930.
Cellulose acetate. U. S. Industrial Chemical Co. Incorporated. 277,236; Nov. 11; Serial No. 302,919; published Aug. 12, 1930.
Chemical dye aid. H. Th. Böhme A. G. 277,490; Nov. 11; Serial No. 299,545; published Sept. 2, 1930.
Chemical dyes. Richard Chemical Company. 277,469–70; Nov. 11; Serial Nos. 300,756–7; published Aug. 19, 1930.
Chemical preparation. Kaio Company, The. 277,355; Nov. 11; Serial No. 294,161; published Aug. 19, 1930.
Chemicals. Merck & Co. 79,845; renewed Oct. 11, 1930.
Chemicals. Tartricidgesellschaft m. b. H. 277,433; Nov. 11; Serial No. 299,737; published Aug. 19, 1930.
Cleaning agent. E. Boiko. 277,475; Nov. 11; Serial No. 293,570; published Aug. 19, 1930.
Corn plasters, Medicated. Allcock Manufacturing Co. 277,281; Nov. 11; Serial No. 286,012; published Aug. 19, 1930.
Cosmetics and toilet preparations. Smart & Company. 277,409; Nov. 11; Serial No. 298,856; published Aug. 19, 1930.
Creams and lotions. E. L. Patch Company. 277,384; Nov. 11; Serial No. 301,501; published Aug. 19, 1930.
Deodorant, mouth wash, and antiseptic solution. B. L. Johnson. 277,396; Nov. 11; Serial No. 303,027; published Sept. 2, 1930.
Dressing and invigorant for the hair. Philo Hay Specialties Co. 79,856; renewed Oct. 11, 1930.
Dyes and dyestuffs. E. I. du Pont de Nemours and Company. 277,171; Nov. 11; Serial No. 303,169; published Aug. 19, 1930.
Dyes and dyestuffs. E. I. du Pont de Nemours and Company. 277,397; Nov. 11; Serial No. 303,170; published Aug. 26, 1930.
Ethyl acetate, diethyl oxalate, absolute ether, and cellulose acetate. 30 U. S. Industrial Chemical Co. Incorporated. 277,235; Nov. 11; Serial No. 302,920; published Aug. 12, 1930.
Extract and preparation of Bulgarian garlic. C. Weber. 277,461; Nov. 11; Serial No. 292,644; published Aug. 19, 1930.
Extract made from amniotic fluid. Eli Lilly and Company. 277,395; Nov. 11; Serial No. 303,002; published Aug. 26, 1930.
Extracts to be used for prevention and/or treatment of dermatitis. Cuter Laboratory. 277,172; Nov. 11; Serial No. 303,167; published Aug. 19, 1930.
Ferment. J. H. Cummings. 277,243; Nov. 11; Serial No. 302,212; published Aug. 12, 1930.
Fly repellent and soothing wound dressing. American Turpentine & Tar Company. 277,179; Nov. 11; Serial No. 302,804; published Aug. 19, 1930.
Insecticide, Liquid. M. H. Press. 277,428; Nov. 11; Serial No. 300,086; published Aug. 12, 1930.
Insecticide Perolin Company of America. 277,295; Nov. 11; Serial No. 302,872; published Sept. 2, 1930.
Insecticide, Powdered. Apex Products Corporation. 277,174; Nov. 11; Serial No. 303,147; published Aug. 19, 1930.
Insecticides. Sprayit Products, Inc. 277,399; Nov. 11; Serial No. 303,219; published Sept. 2, 1930.
Insecticides, tonics, liniments, etc. Tee-Lee Chemical Co. 277,387; Nov. 11; Serial No. 302,086; published Aug. 19, 1930.
Laxative compounds, Liquid. California Fig Syrup Co. 35,885; renewed Feb. 12, 1931.
Laxatives. Kooky-Lax Company. 277,436; Nov. 11; Serial No. 299,581; published Aug. 12, 1930.
Lip-stick pencil or crayon, hair tonic, shampoo, etc. A. R. Everson. 277,259; Nov. 11; Serial No. 280,821; published Aug. 19, 1930.
Medical composition. T. H. Banks. 277,242; Nov. 11; Serial No. 302,298; published Aug. 12, 1930.

Medical preparation. H. L. Dittmar. 277,497; Nov. 11; Serial No. 297,800; published Aug. 26, 1930.
Medicinal and pharmaceutical preparations. California Medicinal Wine Co. 277,183; Nov. 11; Serial No. 301,569; published Aug. 19, 1930.
Medicinal preparation. C. Darby. 277,176; Nov. 11; Serial No. 302,997; published Aug. 19, 1930.
Medicinal preparation. J. W. Joseph. 277,479; Nov. 11; Serial No. 294,975; published Aug. 19, 1930.
Medicinal preparation. F. Morgenstern. 277,372; Nov. 11; Serial No. 302,470; published Aug. 26, 1930.
Medicinal preparation. N. B. Perry. 277,178; Nov. 11; Serial No. 302,909; published Aug. 19, 1930.
Medicinal solution. S. A. Ralcer. 277,248; Nov. 11; Serial No. 291,738; published Sept. 2, 1930.
Medicine and pharmaceutical preparations. B. McNeir. 277,410; Nov. 11; Serial No. 298,829; published Aug. 19, 1930.
Medicine, Poultry. Osaveus Products Co. 277,488; Nov. 11; Serial No. 298,329; published Aug. 26, 1930.
Moth balls, naphthalene balls, naphthalene flakes, etc. International Combustion Tar & Chemical Corporation. 277,394; Nov. 11; Serial No. 302,400; published Aug. 26, 1930.
Oil extracted from pine needles. Gardner Pine Needle Products Company. 277,250; Nov. 11; Serial No. 290,351; published Aug. 12, 1930.
Oil, Russian mineral. J. M. Chabrowe. 277,481; Nov. 11; Serial No. 297,855; published Sept. 2, 1930.
Oils and fats, etc., Textile and leather finishing. N. V. Chemische Fabriek Dr. K. A. Oekinga. 277,483; Nov. 11; Serial No. 298,288; published Aug. 19, 1930.
Ointment. Wm. S. Merrell Company. 277,374; Nov. 11; Serial No. 302,586; published Aug. 19, 1930.
Ointment, Antiseptic and analgesic. A. Margulis. 277,234; Nov. 11; Serial No. 302,957; published Aug. 12, 1930.
Ointment, Scalp. T. B. Arroyo. 277,385; Nov. 11; Serial No. 301,781; published Aug. 19, 1930.
Perfume extracts, toilet waters, pastes, etc. Parfumerie Roger et Gallet, Société Anonyme. 277,285; Nov. 11; Serial No. 285,788; published Aug. 12, 1930.
Perfumery goods. Société Anonyme Française Redfern. 277,414; Nov. 11; Serial No. 298,550; published Aug. 12, 1930.
Perfumery goods. Sté. Anonyme Française Redfern. 277,413; Nov. 11; Serial No. 298,551; published Aug. 19, 1930.
Perfumes and face powder. Veolay, Inc. 277,296; Nov. 11; Serial No. 302,841; published Aug. 26, 1930.
Perfumes, toilet water, face powder, etc. Societe Anonyme Jean Patou. 277,288; Nov. 11; Serial No. 303,661; published Sept. 2, 1930.
Pills. Allcock Manufacturing Co. 277,282; Nov. 11; Serial No. 286,009; published Aug. 19, 1930.
Pills. Allcock Manufacturing Co. 277,283; Nov. 11; Serial No. 286,007; published Aug. 19, 1930.
Pomade, hair-glossing fluid, etc., Hair. M. E. Fields. 277,386; Nov. 11; Serial No. 301,873; published Sept. 2, 1930.
Powder, Astringent. H. Silver. 277,239; Nov. 11; Serial No. 302,697; published Aug. 12, 1930.
Powder, Face. Armand Company. 277,473; Nov. 11; Serial No. 293,399; published Sept. 2, 1930.
Powder, rouge, lip stick, etc., Face. Helen Brooks, Inc. 277,305; Nov. 11; Serial No. 301,800; published Aug. 19, 1930.
Powder, Talc. Colgate-Palmolive-Peet Company. 277,471; Nov. 11; Serial No. 300,785; published Aug. 26, 1930.
Preparation for dyeing hair. J. H. Yamada. 277,432; Nov. 11; Serial No. 299,748; published Aug. 19, 1930.
Preparation for internal use. Schering-Kahlbaum A. G. 277,289; Nov. 11; Serial No. 303,659; published Sept. 2, 1930.
Preparation for the relief of colds, inflammations, etc. Beugen's Inc. 277,274; Nov. 11; Serial No. 303,683; published Sept. 2, 1930.
Preparation for the relief of coughs due to colds. M. E. Zentz. 277,391; Nov. 11; Serial No. 302,121; published Sept. 2, 1930.
Preparation for the relief of indigestion. McKesson & Robbins, Incorporated. 277,180; Nov. 11; Serial No. 302,786; published Aug. 19, 1930.
Preparation for the treatment of colds and influenza. B. A. Haun. 277,392; Nov. 11; Serial No. 302,163; published Aug. 19, 1930.
Preparation for treating indigestion and constipation. A. M. Hopper. 277,401; Nov. 11; Serial No. 303,642; published Sept. 2, 1930.
Preparation for use in the treatment of constipation. Petrolagar Laboratories, Inc. 277,393; Nov. 11; Serial No. 302,165; published Sept. 2, 1930.
Preparation or coating for the protection of packages and labels. Sun Tube Corporation. 277,402; Nov. 11; Serial No. 303,665; published Sept. 2, 1930.
Preparation to be taken internally in the treatment of muscle aches, etc. Guardian Health Products Co. 277,240; Nov. 11; Serial No. 302,317; published Aug. 12, 1930.
Preparation to be used after shaving, Liquid. Queen Perfumery Co. 277,336; Nov. 11; Serial No. 284,139; published Aug. 12, 1930.
Preparations for electrodepositing metals of the platinum group. Baker & Company. 277,356; Nov. 11; Serial No. 294,105; published Aug. 12, 1930.
Purgative compounds, Liquid. California Fig Syrup Co. 35,886–7; renewed Feb. 12, 1931.
Purgative, laxatives, and tonic medicinal preparation. Drolac Chemical Co. 277,403; Nov. 11; Serial No. 303,687; published Sept. 2, 1930.
Remedy for rheumatism, gout, and lumbago. Turner's Pharmacy. 81,181; renewed Mar. 7, 1931.
Rouge, face powder, tooth paste, etc., Lip. G. Glatzer. 277,400; Nov. 11; Serial No. 303,284; published Sept. 2, 1930.
Salt. Worcester Salt Company. 277,365; Nov. 11; Serial No. 301,545; published Aug. 19, 1930.
Salt. Worcester Salt Company. 277,388–9; Nov. 11; Serial Nos. 302,115–7; published Sept. 2, 1930.
Salts, Bath. Scott-La Belle Corp. 277,500; Nov. 11; Serial No. 300,091; published Aug. 26, 1930.
Salts, Effervescent. Italian Importing Company. 277,184; Nov. 11; Serial No. 301,344; published Aug. 19, 1930.
Salve, Healing. W. Schmermund. 277,373; Nov. 11; Serial No. 302,483; published Sept. 2, 1930.
Shampoo, Liquid. F. W. Barber. 277,307; Nov. 11; Serial No. 301,150; published Aug. 26, 1930.
Suppositories. Home Treatment Remedy Company. 79,493; renewed Sept. 13, 1930.
Surgical dressings and poultices. Paul Hartmann, A.-G. 277,474; Nov. 11; Serial No. 293,555; published Aug. 19, 1930.
Tonic, General. C. Darby. 277,232; Nov. 11; Serial No. 302,996; published Aug. 12, 1930.
Tonic, Medicinal. Hilliard Iodine Laboratories. 277,185; Nov. 11; Serial No. 301,343; published Aug. 12, 1930.
Tooth paste, face powder, cold cream, etc. Colgate-Palmolive-Peet Company. 277,233; Nov. 11; Serial No. 302,993; published Aug. 12, 1930.

CLASS 8

Humidors. Robbins Company. 277,158; Nov. 11; Serial No. 302,189; published Sept. 2, 1930.

CLASS 9

Powder-train fuses. Coast Manufacturing & Supply Co. 277,504; Nov. 11; Serial No. 299,762; published Aug. 26, 1930.

CLASS 10

Fertilizers. Old Leaf Mold Humus Corporation. 277,146; Nov. 11; Serial No. 303,573; published Sept. 2, 1930.

CLASS 11

Ink. L. E. Waterman Company. 277,147; Nov. 11; Serial No. 303,358; published Sept. 2, 1930.
Inks and stamp pad, Copying, indelible, writing, etc. S. S. Stafford, Inc. 277,245; Nov. 11; Serial No. 301,310; published Sept. 2, 1930.

CLASS 12

Asphalt, Liquid. L. R. Mackenzie. 277,221; Nov. 11; Serial No. 301,961; published Sept. 2, 1930.
Buildings, Portable manufactured. Economy Housing Company. 277,222; Nov. 11; Serial No. 301,421; published Sept. 2, 1930.
Cement, Construction. National Portland Cement Company. 277,212; Nov. 11; Serial No. 302,742; published Sept. 2, 1930.
Cement, Slag puzzolan. Cheney Lime & Cement Company. 277,210; Nov. 11; Serial No. 302,929; published Sept. 2, 1930.
Closet lining, flooring, shelving, etc. George C. Brown & Company. 277,220; Nov. 11; Serial No. 302,158; published Sept. 2, 1930.
Flooring, Oak and beech. Nashville Hardwood Flooring Company. 277,213; Nov. 11; Serial No. 302,741; published Sept. 2, 1930.
Flooring, Open-type. Welded Products Co. Inc. 277,408; Nov. 11; Serial No. 298,872; published Sept. 2, 1930.
Structural-coating material, Protective. Bayer Products Company. 277,407; Nov. 11; Serial No. 298,881; published Sept. 2, 1930.

CLASS 13

Bolts and rivets. Pacific Coast Steel Corporation. 277,272; Nov. 11; Serial No. 301,202; published Aug. 26, 1930.
Escutcheons, door handles, door pulls, etc. Yale and Towne Mfg. Co. 277,267; Nov. 11; Serial No. 302,204; published Aug. 26, 1930.
Hardware, Suitcase and trunk. Seymour Products Company. 277,268; Nov. 11; Serial No. 302,154; published Sept. 2, 1930.
Pipe and tubing, Metal. Youngstown Sheet & Tube Company. 277,426; Nov. 11; Serial No. 300,314; published Aug. 26, 1930.
Releasing devices, valves, connecting tubing, etc., Automatic. Automatic Sprinkler Corporation of America. 277,512; Nov. 11.
Screws. Holo-Krome Screw Corporation. 277,346; Nov. 11; Serial No. 295,619; published Sept. 2, 1930.

Sprinklers, Lawn. National Lawn Sprinkler Corporation. 277,269; Nov. 11; Serial No. 301,995; published Aug. 26, 1930.
Valves and parts thereof. Edward Valve and Manufacturing Co. 277,262; Nov. 11; Serial No. 303,172; published Sept. 2, 1930.
Valves, Multiple-level. Hazleton Company. 277,353; Nov. 11; Serial No. 294,355; published Aug. 26, 1930.

CLASS 14

Bars, castings, and drawn rods, Cored and solid. Sumet Corporation. 277,422; Nov. 11; Serial No. 296,500; published Aug. 26, 1930.
Iron, Pig. Bethlehem Steel Company. 277,526; Nov. 11.

CLASS 15

Candles. West Indian Oil Company. 277,148; Nov. 11; Serial No. 303,139; published Aug. 26, 1930.
Gasoline. Tank Car Stations Incorporated. 277,155–6; Nov. 11; Serial Nos. 302,289–90; published Aug. 19, 1930.
Gasoline and household fuel oil, etc. Busfield Oil Company. 277,437; Nov. 11; Serial No. 299,484; published Aug. 19, 1930.
Gasoline, kerosene, oils, etc. Crystal Oil Works. 277,165; Nov. 11; Serial No. 301,161; published Aug. 26, 1930.
Oil compound. Union Petroleum Company. 81,038; renewed Feb. 21, 1931.
Oil, Lubricating. Clarkson & Ford Company. 277,164; Nov. 11; Serial No. 301,837; published Sept. 2, 1930.
Oils and gas lubricating oils and lubricating greases, Motor-fuel. Bulk Service Stations, Inc. 277,429; Nov. 11; Serial No. 300,048; published Aug. 26, 1930.
Oils and greases. Indian Refining Company. 277,354; Nov. 11; Serial No. 294,225; published Sept. 2, 1930.
Oils and greases and gasoline, Lubricating. Atlantic, Pacific & Gulf Oil Company. 277,150; Nov. 11; Serial No. 302,925; published Sept. 2, 1930.
Oils and greases and power-transmission oils, Lubricating. Fortuna-Werke Spezialmaschinenfabrik A.-G. 277,329; Nov. 11; Serial No. 284,534; published Aug. 19, 1930.
Oils and greases, Lubricating and transmission. Fortuna-Werke Spezialmaschinenfabrik A.-G. 277,330; Nov. 11; Serial No. 284,533; published June 24, 1930.

CLASS 16

Filler for wood and other materials used for floors. Continental Chemical Corporation. 277,494; Nov. 11; Serial No. 295,659; published Aug. 26, 1930.
Paint. Jewel Paint & Varnish Co. 277,465; Nov. 11; Serial No. 300,522; published Aug. 26, 1930.
Varnish. Chicago Mica Company. 277,192; Nov. 11; Serial No. 302,724; published Sept. 2, 1930.
Varnish. International Combustion Tar & Chemical Corporation. 277,195; Nov. 11; Serial No. 302,402; published Aug. 26, 1930.
Varnish and lacquers. I. G. Farbenindustrie Aktiengesellschaft. 277,194; Nov. 11; Serial No. 302,537; published Aug. 26, 1930.
Wax. E. I. du Pont de Nemours and Company. 277,493; Nov. 11; Serial No. 296,001; published Aug. 26, 1930.
Wax, Liquid floor. Standard Oil Company of California. 277,191; Nov. 11; Serial No. 302,750; published Aug. 26, 1930.
Wood composition in the nature of putty, Pliable. Chemical Wood Products Company. 277,198; Nov. 11; Serial No. 301,577; published Sept. 2, 1930.

CLASS 17

Cigars. American Cigar Company. 277,347–9; Nov. 11; Serial Nos. 295,596–8; published Aug. 26, 1930.
Cigars and cigarettes. Kuenzle & Streiff. 80,061; renewed Nov. 1, 1930.
Cigars, Packaged. Max Schwarz Manufacturer of La Primadora Havana Cigars, Ltd. 277,228; Nov. 11; Serial No. 303,581; published Sept. 2, 1930.
Tobacco and cigarettes. Luckett-Wake Tobacco Co. 277,151; Nov. 11; Serial No. 302,864; published Sept. 2, 1930.

CLASS 19

Aeroplanes and aeroplane structural parts. Inland Aviation Company. 277,345; Nov. 11; Serial No. 295,900; published Aug. 26, 1930.
Automobiles, motor cycles, bicycles, etc. Dürener Metallwerke Aktien-Gesellschaft. 277,252; Nov. 11; Serial No. 289,399; published Sept. 2, 1930.
Automotive vehicles and their component parts. Studebaker Corporation. 277,160; Nov. 11; Serial No. 303,404; published Aug. 26, 1930.
Boats. Dawn Boat Corporation. 277,271; Nov. 11; Serial No. 301,416; published Aug. 26, 1930.
Boats, Motor. George F. Crouch Incorporated. 277,170; Nov. 11; Serial No. 303,319; published Sept. 2, 1930.
Hub caps. Studebaker Corporation. 277,299–300; Nov. 11; Serial Nos. 302,419–20; published Aug. 26, 1930.
Motor cycles. Ardie-Werk A. G. 277,343; Nov. 11; Serial No. 287,169; published Sept. 2, 1930.
Trailers. Two-wheeled camping. A. G. S. Sherman. 277,169; Nov. 11; Serial No. 303,387; published Aug. 26, 1930.
Vehicles, Automotive. Studebaker Corporation. 277,275; Nov. 11; Serial No. 303,405; published Aug. 26, 1930.
Wheel for car brakes, Hand. Universal Draft Gear Attachment Co. 277,249; Nov. 11; Serial No. 291,071; published Sept. 2, 1930.

CLASS 21

Buttons, Push. Yale and Towne Mfg. Co. 277,157; Nov. 11; Serial No. 302,203; published Aug. 26, 1930.
Cleaner, Electric vacuum. M. S. Wright Company. 277,175; Nov. 11; Serial No. 303,142; published Sept. 2, 1930.
Electric insulators and electric junction boxes, etc. Merchant Trading Company. 277,167; Nov. 11; Serial No. 301,048; published Sept. 2, 1930.
Electric insulators, electric junction boxes, etc. Merchant Trading Company. 277,166; Nov. 11; Serial No. 301,050; published Sept. 2, 1930.
Electric-lighting fixtures, etc. Miller Company. 277,344; Nov. 11; Serial No. 296,132; published Sept. 2, 1930.
Electrical contact fingers for conducting electric current in and between parts of electric control apparatus. Orco Mfg. Corp. 277,152; Nov. 11; Serial No. 302,513; published Aug. 26, 1930.
Electrical insulation compounds, etc. Harvel Corporation. 277,161; Nov. 11; Serial No. 302,161; published Aug. 19, 1930.
Electrical supplies for automobiles. N. P. Sher. 277,286; Nov. 11; Serial No. 285,753; published Sept. 2, 1930.
Electrically-operated information tabulating and list-selecting machines. Gile Merchandising Bureau. 277,315; Nov. 11; Serial No. 302,729; published Aug. 26, 1930.
Electron-tube systems, Cascaded. E. H. Loftin, trustee. 277,431; Nov. 11; Serial No. 299,784; published Sept. 2, 1930.
Light-sensitive cells, radio detecting, rectifying, and amplifying tubes. Arcturus Radio Tube Company. 277,154; Nov. 11; Serial No. 302,367; published Aug. 26, 1930.
Radio aerial kits. N. K. Malotte. 277,418; Nov. 11; Serial No. 297,752; published Sept. 2, 1930.
Radio receiving sets. Balkelt Radio Company. 277,260; Nov. 11; Serial No. 286,416; published Aug. 26, 1930.
Radio receiving sets, vacuum or electron tubes, and radio speakers. Columbia Radio Corporation. 277,173; Nov. 11; Serial No. 303,163; published Sept. 2, 1930.
Tubes and parts thereof, Electron emissive. Arcturus Radio Company. 277,341; Nov. 11; Serial No. 275,936; published Aug. 26, 1930.
Tubes and parts thereof, Electron emissive. Arcturus Radio Tube Company. 277,351; Nov. 11; Serial No. 295,110; published Sept. 2, 1930.

CLASS 23

Casing-pulling machines, pump-tubing drains, hydraulic plugs, etc. Thrift Corporation. 277,316; Nov. 11; Serial No. 302,702; published Aug. 26, 1930.
Cutlery. P. J. Michels. 277,312; Nov. 11; Serial No. 303,199; published Aug. 26, 1930.
Drilling tools and equipment, Well-. Baash-Ross Tool Company. 277,317; Nov. 11; Serial No. 302,523; published Aug. 26, 1930.
Engines and parts therefor, Internal-combustion. Continental Aircraft Engine Company. 277,423; Nov. 11; Serial No. 296,399; published Sept. 2, 1930.
Grinding and pulverizing machines. Pulverizing Machinery Company. 277,258; Nov. 11; Serial No. 286,837; published Aug. 26, 1930.
Humidifier for internal-combustion engines. Internal Combustion Atomizers Company. 277,313; Nov. 11; Serial No. 303,114; published Aug. 26, 1930.
Ice picks, kitchen forks, cake turners, etc. Utility Manufacturing Co., Inc. 277,350; Nov. 11; Serial No. 295,404; published Aug. 26, 1930.
Key-bitting machines. Yale and Towne Mfg. Co. 277,323; Nov. 11; Serial No. 302,202; published Aug. 26, 1930.
Machines and apparatus for grinding, lapping, etc. Gleason Works. 277,419; Nov. 11; Serial No. 297,786; published Sept. 2, 1930.
Machines and apparatus for manufacturing shoes. Fortuna-Werke Spezialmaschinenfabrik A.-G. 277,334; Nov. 11; Serial No. 284,529; published June 24, 1930.
Machines and apparatus for working leather, etc. Fortuna-Werke Spezialmaschinenfabrik A.-G. 277,333; Nov. 11; Serial No. 284,530; published July 15, 1930.
Rakes, Bamboo. G. W. McGuire. 277,314; Nov. 11; Serial No. 302,702; published Aug. 26, 1930.
Razor blades, pocketknives, scissors, and shears. Montgomery Ward & Co. 277,358; Nov. 11; Serial No. 294,080; published Aug. 26, 1930.
Shovels, cranes, and parts thereof. Ohio Power Shovel Company. 277,321; Nov. 11; Serial No. 302,255; published Sept. 2, 1930.
Supplies, Printers'. American Steel Chase Co. 277,310; Nov. 11; Serial No. 303,268; published Sept. 2, 1930.
Tractors, tractor engines, track links, etc. Caterpillar Tractor Co. 277,417; Nov. 11; Serial No. 297,791; published Aug. 26, 1930.
Vending machines. R. B. Keehnel. 277,311; Nov. 11; Serial No. 303,250; published Aug. 26, 1930.
Winding machines. Universal Winding Company. 85,788; renewed Jan. 15, 1931.
Wrenches, wrench sets, wrench sockets, and tool handles. J. H. Williams & Co. 277,308–9; Nov. 11; Serial Nos. 303,521–2; published Sept. 2, 1930.

CLASS 24

Ironing boards. Peru Basket Company. 277,357; Nov. 11; Serial No. 294,085; published Sept. 2, 1930.
Irons and parts thereof, Self-heating charcoal flat and sad. Colebrookdale Iron Company. 277,304; Nov. 11; Serial No. 301,848; published Aug. 26, 1930.

CLASS 26

Balancing apparatus for grinding wheels, etc. Fortuna-Werka Spezialmaschinenfabrik A.-G. 277,331; Nov. 11; Serial No. 284,532; published July 15, 1930.
Balancing apparatus, measuring apparatus, etc. Fortuna-Werke Spezialmaschinenfabrik A.-G. 277,332; Nov. 11; Serial No. 284,531; published June 24, 1930.
Clothes patterns. G. Fox & Co. Inc. 277,324; Nov. 11; Serial No. 301,883; published Sept. 2, 1930.
Films, Printed motion-picture. Metro-Goldwyn-Mayer Corporation. 277,427; Nov. 11; Serial No. 300,221; published Sept. 2, 1930.
Gages, Water-level. Hospital Supply Company and the Watters Laboratories, Consolidated. 277,159; Nov. 11; Serial No. 303,506; published Sept. 2, 1930.
Machines and apparatus for testing gears, etc. Gleason Works. 277,420; Nov. 11; Serial No. 297,735; published Sept. 2, 1930.
Magnifier and paper weight, Combined. Bausch & Lomb Optical Company. 277,186; Nov. 11; Serial No. 303,681; published Sept. 2, 1930.
Measuring apparatus, Light-. Graphometer Company Incorporated. 277,256; Nov. 11; Serial No. 287,140; published Sept. 2, 1930.
Measuring device. Schwarz Laboratories, Inc. 277,263; Nov. 11; Serial No. 302,912; published Sept. 2, 1930.
Paper. Charles Bruning Company. 277,412; Nov. 11; Serial No. 299,825; published Sept. 2, 1930.

CLASS 28

Bracelets, finger rings, necklaces, etc. Kaufmann Department Stores, Inc. 277,404; Nov. 11; Serial No. 298,997; published Aug. 26, 1930.
Fraternity badges and lapel buttons. Sigma Alpha Epsilon. 277,162; Nov. 11; Serial No. 302,055; published Aug. 26, 1930.
Glass and crystal beads. A. Wenzel. 277,149; Nov. 11; Serial No. 302,877; published Sept. 2, 1930.
Necklaces, finger rings and bracelets. G. Fox & Co. Inc. 277,163; Nov. 11; Serial No. 301,886; published Sept. 2, 1930.
Pins, badges, bracelets, and rings, Fraternity. Omega Upsilon. 277,435; Nov. 11; Serial No. 299,617; published Aug. 19, 1930.
Rings, Finger. Goldman-Kolber Co. Inc. 277,168; Nov. 11; Serial No. 301,027; published Aug. 19, 1930.
Rings, Finger. A. H. Pond Co. 277,153; Nov. 11; Serial No. 302,473; published Sept. 2, 1930.

CLASS 29

Brooms and mops. Sund Mop and Broom Cleaner Co. 277,227; Nov. 11; Serial No. 303,666; published Sept. 2, 1930.
Dusters. D. S. Walton & Company. 277,238; Nov. 11; Serial No. 302,708; published Sept. 2, 1930.
Toothbrushes. Exterikultur A.-G. 277,441; Nov. 11; Serial No. 300,865; published Aug. 26, 1930.

CLASS 31

Refrigerating machinery. Potter Refrigerator Corporation. 277,335; Nov. 11; Serial No. 284,364; published Aug. 26, 1930.
Refrigerating plants and apparatus, both stationary and transportable. "Altek," Société Anonyme Compagnie d'Etude et d'Exploitation d'Appareils Frigorifiques pour les Transports. 277,201; Nov. 11; Serial No. 303,619; published Aug. 26, 1930.

CLASS 32

Chiffonobes, wardrobes, etc. Louck & Hill Company. 277,439; Nov. 11; Serial No. 300,879; published Sept. 2, 1930.
Furniture, etc., Overstuffed, reed, fibre. J. H. Moore Company. 277,352; Nov. 11; Serial No. 295,038; published Aug. 26, 1930.
Mirrors and cabinets for mounting same, Illuminated. Circolite Company. 277,325; Nov. 11; Serial No. 301,336; published Sept. 2, 1930.
Table tops, cases or cabinets, etc. Merchant Trading Company. 277,326; Nov. 11; Serial No. 301,049; published Sept. 2, 1930.
Table tops, cases or cabinets, etc. Merchant Trading Company. 277,327; Nov. 11; Serial No. 301,046; published Sept. 2, 1930.
Tables, Card. Franklin-Turner Co. 277,319; Nov. 11; Serial No. 302,432; published Aug. 26, 1930.

CLASS 33

Bottles formed of glass. Obear-Nester Glass Company. 277,528; Nov. 11.

CLASS 34

Burners, Automatic coal. Iron Fireman Manufacturing Company. 277,425; Nov. 11; Serial No. 300,418; published Sept. 2, 1930.
Kilns, control equipment for kilns, parts of and appurtenances for kilns sold as complete kilns, etc. F. L. Smidth & Co. 277,405; Nov. 11; Serial No. 298,959; published Aug. 26, 1930.
Lighting fixtures. Bryant Park Electric Lamp Company. 277,443; Nov. 11; Serial No. 300,611; published Sept. 2, 1930.
Reflectors, Metal. J. P. Wollard. 277,297; Nov. 11; Serial No. 302,758; published Sept. 2, 1930.
Stoves, furnaces, etc. J. G. Emrich. 277,306; Nov. 11; Serial No. 301,253; published Sept. 2, 1930.
Stoves, ranges, and heaters, and parts thereof. W. J. Loth Stove Company. 36,079; renewed Mar. 12, 1931.

CLASS 35

Brake lining. Laher Auto Spring Co. 277,265; Nov. 11; Serial No. 302,733; published Sept. 2, 1930.
Hose. New York Belting & Packing Company Ltd. 80,489; renewed Dec. 27, 1930.
Tubes, rubber inner-tube patching material, etc., Rubber inner. Better Products Company Inc. 277,415; Nov. 11; Serial No. 298,423; published Aug. 26, 1930.

CLASS 36

Phonographs. Grigsby-Grunow Company. 277,284; Nov. 11; Serial No. 285,914; published Aug. 26, 1930.

CLASS 37

Books, Manifolding. McCaskey Register Company. 80,138; renewed Nov. 8, 1930.
Cake and bread wrappers. Wax Paper Products Co. 277,375; Nov. 11; Serial No. 302,709; published Aug. 26, 1930.
Devices for use in playing the game of bridge. Leo Schlesinger Company Inc. 277,485; Nov. 11; Serial No. 298,360; published Aug. 26, 1930.
Paper. Hampshire Paper Company. 277,377; Nov. 11; Serial No. 303,181; published Sept. 2, 1930.
Paper. Hampshire Paper Company. 277,502; Nov. 11; Serial No. 300,018; published Sept. 2, 1930.
Paper. Oxford Paper Company. 277,381; Nov. 11; Serial No. 303,486; published Sept. 2, 1930.
Paper and envelopes. Montag Bros. Inc. 277,383; Nov. 11; Serial No. 303,775; published Sept. 2, 1930.
Paper, Bond. Saxon Paper Products, Inc. 277,466; Nov. 11; Serial No. 300,672; published Sept. 2, 1930.
Paper, Bond. Saxon Paper Products, Inc. 277,467; Nov. 11; Serial No. 300,676; published Sept. 2, 1930.
Paper, Book. United States Envelope Company. 277,379; Nov. 11; Serial No. 303,408; published Sept. 2, 1930.
Paper. Crepe. Dennison Manufacturing Company. 277,376; Nov. 11; Serial No. 302,726; published Aug. 26, 1930.
Paper, more particularly glassine paper. Glassine Paper Company. 277,503; Nov. 11; Serial No. 299,966; published Aug. 26, 1930.
Paper napkins. Yorkville Paper Company. 277,382; Nov. 11; Serial No. 303,498; published Sept. 2, 1930.
Paper, Toilet. Albany Perforated Wrapping Paper Company. 277,370; Nov. 11; Serial No. 302,205; published Aug. 26, 1930.
Paper, Toilet. A. H. Scott. 79,793; renewed Oct. 4, 1930.
Paper, Transparent. Deerfield Glassine Company. 277,510; Nov. 11.
Pens, Fountain. Sears, Roebuck and Co. 277,340; Nov. 11; Serial No. 279,757; published Aug. 26, 1930.
Tag board, cover paper, and Bristol. Bradner Smith & Co. 277,380; Nov. 11; Serial No. 303,464; published Sept. 2, 1930.
Tallies and score cards for bridge. W. G. Hamilton, Jr. 277,486; Nov. 11; Serial No. 299,058; published Aug. 26, 1930.

CLASS 38

Bulletin. Merchants and Manufacturers Association of Bush Terminal, Inc. 277,360; Nov. 11; Serial No. 293,628; published Sept. 2, 1930.
Cards, catalogues, circulars, etc., Business. Alex. G. Highton, Inc. 277,462; Nov. 11; Serial No. 300,196; published Sept. 2, 1930.
Cartoons, Newspaper. P. Robinson. 277,492; Nov. 11; Serial No. 296,447; published Apr. 8, 1930.
Cartoons, Printed. Hunch's Lucky Cartoon Company. 277,369; Nov. 11; Serial No. 302,182; published Aug. 26, 1930.
Catalog. Co-Op Electric Supply Co. 277,253; Nov. 11; Serial No. 288,696; published Sept. 2, 1930.
Magazine. F. W. Dodge Corporation. 277,378; Nov. 11; Serial No. 303,367; published Aug. 26, 1930.
Newspaper column. J. Foley. 277,444; Nov. 11; Serial No. 302,818; published Sept. 2, 1930.
Periodical. Popular Publications. 277,366–7; Nov. 11; Serial Nos. 302,011–12; published Aug. 26, 1930.
Periodical. Popular Publications. 277,368; Nov. 11; Serial No. 302,013; published Sept. 2, 1930.
Publication. Izaak Walton League of America. 277,478; Nov. 11; Serial No. 294,553; published Aug. 26, 1930.
Publication, Periodical. High School Digest. 277,499; Nov. 11; Serial No. 300,195; published Aug. 26, 1930.
Publications, Periodical. United Merchants of America, Inc. 277,489; Nov. 11; Serial No. 299,353; published Aug. 26, 1930.

CLASS 39

Bloomers, panties, pajamas, etc. Durawear Corporation. 277,254; Nov. 11; Serial No. 287,655; published Aug. 26, 1930.
Coats and breeches, topcoats, knickers, etc. H. E. Ullman. 277,218; Nov. 11; Serial No. 302,421; published Aug. 12, 1930.
Coats and suits. Pfohl & Dingens. 277,251; Nov. 11; Serial No. 289,902; published Aug. 26, 1930.
Collars. Brooks Brothers. 277,513–23; Nov. 11.
Collars. Brooks Brothers. 277,525; Nov. 11.
Gun coats, vests, trousers, etc. Sears, Roebuck and Co. 277,302; Nov. 11; Serial No. 302,040; published Aug. 26, 1930.
Hose supporters. A. Stein & Company. 80,685; renewed Jan. 17, 1931.
Hosiery. Brown Durrell Co. 277,257; Nov. 11; Serial No. 286,863; published Aug. 26, 1930.
Hosiery. Lion Corporation. 277,292; Nov. 11; Serial No. 303,193; published Aug. 26, 1930.
Hosiery. May Hosiery Mills, Inc. 277,293; Nov. 11; Serial No. 302,958; published Aug. 26, 1930.
Hosiery. Wolin-Feinberg, Inc. 277,226; Nov. 11; Serial No. 303,360; published Aug. 26, 1930.
Jackets. A. Feldman. 277,338; Nov. 11; Serial No. 281,823; published Aug. 26, 1930.
Shirts. Wm. T. Knott Company. 277,303; Nov. 11; Serial No. 301,950; published Aug. 26, 1930.
Sweaters. Carson Pirie Scott and Company. 277,294; Nov. 11; Serial No. 302,928; published Aug. 26, 1930.
Underwear. Julius Kayser & Co. 277,434; Nov. 11; Serial No. 299,661; published Aug. 26, 1930.
Underwear and nightwear. Sexton Manufacturing Company. 277,291; Nov. 11; Serial No. 303,215; published Aug. 26, 1930.
Underwear, poloshirts, and sweaters. Richards, Sutton & Thornton, Inc. 277,524; Nov. 11.

CLASS 42

Cotton flannels. Whittenton Manufacturing Co. 80,691; renewed Jan. 17, 1931.
Cotton piece goods. J. A. Finn & Company. 277,527; Nov. 11.
Cretonne. Windsor Print Works. 80,504; renewed Dec. 27, 1930.
Percale. Windsor Print Works. 80,333–4; renewed Dec. 6, 1930.
Piece goods, Certain. Rogers & Thompson. 79,604; renewed Sept. 20, 1930.
Silk piece goods. F. Ducharne Silk Co. Inc. 277,511; Nov. 11.
Silk piece goods. Rogers & Thompson. 79,786; renewed Oct. 4, 1930.
Wool and cotton mixed fabrics. Windsor Print Works. 81,240; renewed Mar. 14, 1931.
Wool and cotton piece goods. Pacific Mills. 80,869; renewed Feb. 7, 1931.

CLASS 44

Absorbent cotton. Kendall Company. 277,190; Nov. 11; Serial No. 302,901; published Sept. 2, 1930.
Adhesive plaster, absorbent cotton, and gauze bandage. J. W. Spencer. 277,196; Nov. 11; Serial No. 302,258; published Sept. 2, 1930.
Dental rubber. Reliance Dental Manufacturing Company. 277,270; Nov. 11; Serial No. 301,703; published Aug. 2, 1930.
Metallic strips used in the formation of trenches in dentures. C. S. Ellis. 277,273; Nov. 11; Serial No. 301,018; published Aug. 26, 1930.
Packs or napkins, Sanitary. Lanair Company. 277,193; Nov. 11; Serial No. 302,582; published Aug. 26, 1930.
Supports, Ano-perineal. G. S. White. 277,188; Nov. 11; Serial No. 303,232; published Aug. 26, 1930.

CLASS 45

Beverage, Citrus-fruit-juice. P. F. Bell. 277,529; Nov. 11.
Beverage, Maltless. A. E. Adams. 277,463; Nov. 11; Serial No. 300,315; published Sept. 2, 1930.
Beverages. Fairmont Realty Corporation. 277,189; Nov. 11; Serial No. 303,103; published Aug. 26, 1930.
Beverages and syrups and extracts used in making the same. J. L. Reed. 277,197; Nov. 11; Serial No. 302,222; published Aug. 26, 1930.
Beverages, sirups and extracts for making the same, and spring water. J. Weiner & Co. 277,205; Nov. 11; Serial No. 303,359; published Aug. 26, 1930.

CLASS 46

Biscuits, crackers, wafers, etc. National Biscuit Company. 36,002; renewed Mar. 5, 1931.
Bread. Olaf Hertzwig Trading Co. 277,464; Nov. 11; Serial No. 300,414; published Sept. 2, 1930.
Butter. Miller Maid Creamery, Inc. 277,448; Nov. 11; Serial No. 301,986; published Aug. 26, 1930.
Cake. Drake Bakeries Incorporated. 277,279–80; Nov. 11; Serial Nos. 303,321–2; published Aug. 26, 1930.
Candy. Chase Candy Company. 277,224; Nov. 11; Serial No. 303,318; published Sept. 2, 1930.
Candy. E. L. Hutchinson. 277,411; Nov. 11; Serial No. 298,701; published Aug. 26, 1930.
Candy. Trooper Candy Co. 277,207; Nov. 11; Serial No. 303,308; published Aug. 26, 1930.
Candy. Verlaine, Inc. 277,337; Nov. 11; Serial No. 283,314; published Aug. 26, 1930.
Candy. F. B. Washburn & Co. 81,041; renewed Feb. 21, 1931.
Canned fruits and dried fruits. Henri Ltd. 277,342; Nov. 11; Serial No. 266,810; published Aug. 26, 1930.
Canned fruits and vegetables. Kings County Packing Company. 277,225; Nov. 11; Serial No. 303,537; published Sept. 2, 1930.
Canned fruits, canned vegetables, etc. Balfour Guthrie & Company. 277,215; Nov. 11; Serial No. 302,622; published Aug. 26, 1930.
Canned fruits, canned vegetables, etc. Balfour Guthrie & Company. 277,216–17; Nov. 11; Serial Nos. 302,616–17; published Aug. 26, 1930.
Canned fruits, canned vegetables, canned fish, etc. Yellow Front Stores, Inc. 277,301; Nov. 11; Serial No. 302,119; published Aug. 26, 1930.
Canned malt syrup. M. Hollander. 277,440; Nov. 11; Serial No. 300,872; published Aug. 26, 1930.
Cheese. La Corporation De La Trappe De Notre-Dame-Du-Lac Des Deux Montagnes. 277,482; Nov. 11; Serial No. 297,974; published Aug. 26, 1930.
Chicks, Live Baby. Clinton Hatchery. 277,223; Nov. 11; Serial No. 301,158; published Aug. 26, 1930.
Coffee. Hard & Rand, Inc. 277,208–9; Nov. 11; Serial No. 303,286–7; published Sept. 2, 1930.
Coffee. Hard & Rand, Inc. 277,219; Nov. 11; Serial No. 302,322; published Sept. 2, 1930.
Cookies. United Biscuit Company of America. 277,264; Nov. 11; Serial No. 302,754; published Aug. 26, 1930.
Cookies and crackers, mushroom sauce, etc. R. Raulli. 277,406; Nov. 11; Serial No. 298,907; published Aug. 26, 1930.
Essences, Concentrated alcoholic. Schimmel & Co. Aktiengesellschaft. 277,416; Nov. 11; Serial No. 298,359; published Aug. 26, 1930.
Feed, Poultry. Tioga-Empire Feed Mills, Inc. 277,468; Nov. 11; Serial No. 300,691; published Aug. 19, 1930.
Feed, Poultry mash. Birdseye Flour Mills. 277,261; Nov. 11; Serial No. 303,317; published Aug. 26, 1930.
Feed, Poultry scratch. Birdseye Flour Mills. 277,276; Nov. 11; Serial No. 303,315; published Aug. 26, 1930.
Feeds, Dairy. Dixie Feed Company. 277,487; Nov. 11; Serial No. 299,189; published Sept. 2, 1930.
Flour and for stock feed, Cake. Charleston Milling & Produce Company. 277,480; Nov. 11; Serial No. 295,152; published Aug. 19, 1930.
Flour, Wheat. J. Allen Smith & Company. 81,174; renewed Mar. 7, 1931.
Flour, Wheat. King Midas Mill Company. 277,200; Nov. 11; Serial No. 301,040; published Aug. 26, 1930.
Food, Rabbit. Rajah Rabbitry, Inc. 277,476; Nov. 11; Serial No. 294,320; published Aug. 26, 1930.
Fruits, vegetables, melons, etc., Fresh. S. J. Gallagher. 277,214; Nov. 11; Serial No. 302,631; published Aug. 26, 1930.
Gum, Chewing. American Chicle Company. 277,211; Nov. 11; Serial No. 302,882; published Aug. 26, 1930.
Malt syrup. Ben-Burk, Incorporated. 277,298; Nov. 11; Serial No. 302,457; published Aug. 26, 1930.
Mayonnaise and sandwich spread. Mobile Grocery Company. 277,442; Nov. 11; Serial No. 300,644; published Aug. 26, 1930.
Mixture and topping for bakery and confectionery goods. Bear-Stewart Co. 277,247; Nov. 11; Serial No. 292,790; published Aug. 26, 1930.
Oleomargarin. John F. Jelke Company. 81,150–2; renewed Mar. 7, 1931.
Sandwiches. M. D. Cravens. 277,496; Nov. 11; Serial No. 295,153; published Aug. 26, 1930.
Sandwiches, etc., Beef, pork, and chicken. H. W. Reifschneider. 277,438; Nov. 11; Serial No. 299,280; published Aug. 26, 1930.
Sugar, Pectinized. A. Leo. 277,361; Nov. 11; Serial No. 296,280; published Aug. 26, 1930.

CLASS 47

Wine, champagne. Val Bros. 277,488; Nov. 11; Serial No. 299,291; published Sept. 2, 1930.
Wine, champagne. Val Bros. 277,508; Nov. 11; Serial No. 299,605; published Sept. 2, 1930.

CLASS 48

Malt beverage. F. & M. Schaefer Brewing Co. 277,206; Nov. 11; Serial No. 303,349; published Aug. 26, 1930.

CLASS 50

Cushioning material. Celotex Company. 277,241; Nov. 11; Serial No. 302,314; published Aug. 26, 1930.
Fountains, feeders, canopy brooders, etc. Brower Manufacturing Company. 277,246; Nov. 11; Serial No. 301,240; published Aug. 26, 1930.
Library outfit. American Lending Library, Inc. 277,424; Nov. 11; Serial No. 300,457; published Aug. 26, 1930.

Mats. Lima Cord Sole and Heel Company. 277,177; Nov. 11; Serial No. 302,952; published Sept. 2, 1930.

Mats, Dry. Morley Button Manufacturing Company. 277,230–1; Nov. 11; Serial Nos. 303,251–2; published Aug. '26, 1930.

Pads. Pioneer Paper Stock Company. 277,237; Nov. 11; Serial No. 302,910; published Aug. 26, 1930.

Rubberized fabrics. E. I. du Pont de Nemours and Company. 277,229; Nov. 11; Serial No. 303,323; published Aug. 26, 1930.

Textile fabrics, Coated. Buttonless Tire Cover Company. 277,359; Nov. 11; Serial No. 293,658; published Sept. 2, 1930.

ALPHABETICAL LIST OF LABELS

Blu Kros. For Paper Cloth. Sauquoit Paper Co. 38,249; Nov. 11.

Bonomo's Salt Water Taffee. For Confections, Particularly Taffy Candy. A. Bonomo. 38,220; Nov. 11.

Buffalo-Barley Malt Syrup. For Malt Syrup. Buffalo Malt Co. Inc. 38,221; Nov. 11.

Canadian Pale. For a Malt Beverage. Louis F. Neuweiler's Sons. 38,237; Nov. 11.

Carnation. For Fresh Vegetables. A. Arena & Co. 38,219; Nov. 11.

Certified Vitamin—Rich Nursery Foods. For Nursery Foods. Curtice Brothers Co. 38,222; Nov. 11.

Dugan's 50-50 Bread. For Bread. Dugan Brothers, Inc. 38,225; Nov. 11.

Dugan's Home Made Bread Sliced. For Bread. Dugan Brothers, Inc. 38,224; Nov. 11.

Dugan's New England Swedish Rye. For Rye Bread. Dugan Brothers, Inc. 38,223; Nov. 11.

E. F. Kemp Salted Nuts Etc. For Salted Nuts. E. F. Kemp. 38,232; Nov. 11.

E O Honey. For Honey. Thom Brothers. 38,243; Nov. 11.

Ermco. For Cleansing Cream. E. R. Mansfield Co. Inc. 38,235; Nov. 11.

Gardiner Solution—Stains Run from 101. For Cleansing, Germicidal, Deodorizing, Disinfecting, etc. Gardiner Manufacturing Company. 38,227; Nov. 11.

Golden Star. For Olive Oil. Italian Importing Co. of New York. 38,231; Nov. 11.

Harbourt's Menthol Balsam. For Medicinal Preparations for Coughs, Colds etc. Standard Harbourt's Drug Stores. 38,242; Nov. 11.

Henry's Marvelene Solution. For Washing Solution. C. L. Henry. 38,229; Nov. 11.

Imperial. For Mincemeat. Lee & Cady. 38,233; Nov. 11.

Nature's Tastiest Morsels are Nuts. For Nut Meats and Nut Products. MacFarlane Nut Company. 38,234; Nov. 11.

Niblets. For Canned Corn. Minnesota Valley Canning Company. 38,236; Nov. 11.

Noel. For Perfumes. P. E. Falkingham. 38,226; Nov. 11.

Orsinger's Special. For Bread. Orsinger's Bakery. 38,239; Nov. 11.

Quality. For Hosiery. Hudson Silk Hosiery Co. 38,230; Nov. 11.

Soffos Candy. For Candies. T. G. Soffos. 38,241; Nov. 11.

Tip-Top Sliced Sandwich Bread. For Bread. Ward Baking Company. 38,245; Nov. 11.

Victory Brand. For Butter. North Side Packing Company. 38,238; Nov. 11.

Visco Handy Household Oil. For Lubricating Oil, Etc. Visco Chemical Products Co. 38,244; Nov. 11.

Wheaties. For Whole-Wheat Flakes with All the Bran. General Mills, Inc. 38,228; Nov. 11.

Williams Dental Cream. For Dental Cream. J. B. Williams Company. 38,246; Nov. 11.

ALPHABETICAL LIST OF PRINTS

Colonial 4 O'Clock Coffee Club. For Coffee. Whitten-Rader-Johnson Inc. 12,807; Nov. 11.

Could It be that My Husband was Ashamed of Our Boy? For Wheat Breakfast Food. Cream of Wheat Corporation. 12,795; Nov. 11.

Divertissements. For Cigarettes. R. J. Reynolds Tobacco Company. 12,803; Nov. 11.

Do You Really Know Your Cigarette? For Cigarettes. R. J. Reynolds Tobacco Company. 12,800; Nov. 11.

Don't Deny Yourself the Luxury of Camels. For Cigarettes. R. J. Reynolds Tobacco Company. 12,806; Nov. 11.

First For Pleasure. For Cigarettes. R. J. Reynolds Tobacco Company. 12,802; Nov. 11.

Gus Brought His Four Kids, Etc. For Cigarettes. R. J. Reynolds Tobacco Company. 12,801; Nov. 11.

How to fire Pocahontas coal. For Coal. Pocahontas Operators Association. 12,797; Nov. 11.

How to Fire Pocahontas Coal the Conical Method. For Coal. Pocahontas Operators Association. 12,798; Nov. 11.

Pflueger fishing tackle for every specie of game fish. For Fishing tackle. Enterprise Manufacturing Co. 12,796; Nov. 11.

The Blend That Revolutionized Smoking. For Cigarettes. R. J. Reynolds Tobacco Company. 12,805; Nov. 11.

The Chorus. For Cigarettes. R. J. Reynolds Tobacco Company. 12,804; Nov. 11.

The Little Drakes, Two Jolly Nautical Spirits Descended from Sir Francis Himself. For Wheat Breakfast Food. Cream of Wheat Corporation. 12,794; Nov. 11.

The Sun Pours Fragrance Into These Tobaccos. For Cigarettes. R. J. Reynolds Tobacco Company. 12,799; Nov. 11.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 11TH DAY OF NOVEMBER, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

A C Spark Plug Company. (See Norviel, Harry E., assignor.)

Aarseth, Ole M., Echo, Minn. Mail box. 1,781,264; Nov. 11.

Abbott, Albert L., Canton, assignor to The Diebold Safe & Lock Company, Canton, Ohio. Jamb section. 1,781,488; Nov. 11.

Abbott, Basil N., Richmond, Va. Flat-top-desk cabinet. 1,781,152; Nov. 11.

Abrahams, Alexander I., New York, N. Y. Loud-speaker horn. 1,781,489; Nov. 11.

Acme Motion Picture Projector Company. (See De Vault, Ralph P., assignor.)

Adam, Auguste E., Houilles, France. Device for automatic adjustment of light projectors. 1,781,311; Nov. 11.

Aerial Advertising, Inc. (See Rohlfs, Roland, assignor.)

Affel, Herman A., Ridgewood, N. J., assignor to American Telephone and Telegraph Company. Concentric conductor system. 1,781,093; Nov. 11.

Affel, Herman A., Ridgewood, and E. I. Green, East Orange, N. J., assignors to American Telephone and Telegraph Company. Concentric conducting system. 1,781,092; Nov. 11.

Aiken, Glen A., and J. R. Royston, Pittsburgh, Pa. Lock washer. 1,781,660; Nov. 11.

Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Car-washing system. 1,780,991; Nov. 11.

Ainslie, Robert T., Palm Springs, Calif. Motor spreader. 1,780,902; Nov. 11.

Airship Guarantee Company. (See Burney, C. D., Wallis, Norway, and Temple, assignors.)

Aktiengesellschaft Brown, Boverie and Cie. (See Jonas, Julius, assignor.)

Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie. (See Rüegger, Eduard, assignor.)

Alert Products, Inc. (See Norton, Arthur G., assignor.)

Alland, Maurice, Atlantic City, N. J. Mixing device. 1,781,359; Nov. 11.

Allen, Albert, Winchester, assignor to Atlantic Precision Instrument Company, Boston, Mass. Measuring moisture content of sheet material. 1,781,153; Nov. 11.

Allen, Arthur S., New York, and R. Ruzicka, Dobbs Ferry, assignors to The Packer Manufacturing Co., Inc., New York, N. Y. Bottle structure. 1,781,094; Nov. 11.

Allen, Grosvenor N., and E. H. Kreps, assignors to Oneida Community, Limited, Oneida, N. Y. Spoon or similar article. Des. 82,472; Nov. 11.

Allen, Hugh E., Chicago, assignor of one-half to A. G. McCaleb, Evanston, Ill. Condimentation of ground meats. 1,781,154; Nov. 11.

Allentown Knit Fabrics Company. (See Schreiber, Moses, assignor.)

Allied Die-Casting Corporation. (See Dollin, E. N., assignor, and Jacobson.)

Allyn, Robert S., as trustee. (See Allyn, Robert S., assignor.)

Allyn, Robert S., Brooklyn, N. Y., assignor to R. S. Allyn, as trustee for the benefit of D. G. Clark, Coosada Station, Ala., L. C. Clark, Lakeville, Conn., E. H. Fickinger, Great Neck, and R. S. Allyn, New York, N. Y. Machine for slitting sheets to be stretched. 1,781,533; Nov. 11.

American Chemical Paint Company. (See Gravell, James H., assignor.)

American Electric Switch Corporation. (See Lewis, Joseph C.)

American Lithographic Company. (See Intemann, William, assignor.)

American Mine Door Company, The. (See Gurney, Albert J., assignor.)

American Optical Company. (See Baker, Nelson M., assignor.)

American Rolling Mill Company, The. (See Naugle, H. M., and Townsend, assignors.)

American Smelting and Refining Company. (See MacMichael, Hugh R., assignor.)

American Stove Company. (See Stockstrom, Arthur, assignor.)

American Telephone and Telegraph Company. (See Affel, Herman A., assignor.)

American Telephone and Telegraph Company. (See Affel, H. A., and Green, assignors.)

American Telephone and Telegraph Company. (See Bailey, Austin, assignor.)

American Telephone and Telegraph Company. (See Bailey, A., and Dean, assignors.)

American Telephone and Telegraph Company. (See Blye, Paul W., assignor.)

American Telephone and Telegraph Company. (See Nein, Harry R., assignor.)

American Woodlite Corporation. (See Caughlan, Martha W., assignor.)

Anderson, Charles H., Lexington, Ky. Internal-combustion engine. 1,781,042; Nov. 11.

Anderson, George C., assignor to Cope-Swift Company Incorporated, Detroit, Mich. Plate for burners. 1,780,896; Nov. 11.

Anderson, Henry G. (See Sladek, L. J., and Anderson.)

Anderson, Martin J., assignor to Mathews Conveyer Company, Ellwood City, Pa. Conveying and spacing apparatus. 1,781,424; Nov. 11.

Anderson, Martin J., assignor to Mathews Conveyer Company, Ellwood City, Pa. Conveying apparatus for dipping. 1,781,425; Nov. 11.

Anderson, Raymond T., assignor to The V. D. Anderson Company, Cleveland, Ohio. Press. 1,780,961; Nov. 11.

Anderson, Samuel M., Hyde Park, assignor to B. F. Sturtevant Company, Hyde Park, Mass. Propeller fan. 1,781,155; Nov. 11.

Anderson, V. D., Company, The. (See Anderson, Raymond T., assignor.)

Angert Brothers. (See Angert, George H., assignor.)

Angert, George H., assignor to Angert Brothers, Cincinnati, Ohio. Table. 1,781,043; Nov. 11.

Arana, Camilo M., Habana, Cuba. Photographic reproduction apparatus. 1,781,044; Nov. 11.

Armor, James C., West View, Pa. Packing welding rods and a bundle for the same. 1,781,360; Nov. 11.

Armstrong, Percy A. E., New York, N. Y. Forming alloys. 1,781,490; Nov. 11.

Armstrong, Victor C., Hackensack, N. J., assignor to The Rail Joint Company, New York, N. Y. Rail-joint bar. 1,781,426; Nov. 11.

Arrow Electric Company, The. (See Carlson, Johannes R., assignor.)

Art Concrete Works. (See Haase, L. G., and Brooks, assignors.)

Arthur, James F., Dickson City, Pa. Circulating tube. Re17,866; Nov. 11.

Ashington Coal Company Limited. (See Drummond, Walter J., assignor.)

Atlantic Precision Instrument Company. (See Allen, Albert, assignor.)

Automobile "Lock-Alarm" Corporation. (See Bolduc, Joseph A., assignor.)

Avery Power Machinery Co. (See Scranton, Charles J., jr., assignor.)

Babcock & Wilcox Company, The. (See Hall-Brown, A., and Jones, assignors.)

Babcock & Wilcox Company, The. (See Witz, Henri E., assignor.)

Bacher, Rollin L., Lakewood, assignor to The United States Air Compressor Company, Cleveland, Ohio. Fluid-dispensing apparatus. 1,781,045; Nov. 11.

Bailey, Austin, Maplewood, N. J., assignor to American Telephone and Telegraph Company. Radio signaling system. 1,780,963; Nov. 11.

Bailey, Austin, Freehold, N. J., and S. W. Dean, Houlton, Me., assignors to American Telephone and Telegraph Company. Radio signaling system. 1,780,962; Nov. 11.

Baird, John L., assignor to Television Limited, London, England. Television or like system and apparatus. 1,781,210; Nov. 11.

Baker, Edwin M. (See Leslie, E. H., and Baker.)

Baker, George R. (See Savy, R., Baker, and Prescott.)

Baker, Nelson M., assignor to American Optical Company, Southbridge, Mass. End piece for an ophthalmic mounting. Des. 82,473; Nov. 11.

Baker, Nelson M., assignor to American Optical Company, Southbridge, Mass. End piece for an ophthalmic mounting. Des. 82,474; Nov. 11.

Baker Perkins Company. (See Harber, Laurence S., assignor.)

Baker Perkins Company. (See Savy, R., Baker, and Prescott, assignors.)

Barbera, Tony, assignor to Designograph Company, Trinidad, Colo. Device for making designs on cakes and the like. 1,781,209; Nov. 11.

Barnes, Leland S., Chattanooga, Tenn. Box or container. 1,781,624; Nov. 11.

Barron, William L., Laurence Harbor, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Stitch-forming mechanism for sewing machines. 1,781,427; Nov. 11.

Bartlett Hayward Co., The. (See Wagner, Frederick H., assignor.)

Bartling, Friedrich, Munich, Germany. Thermal treatment of pulverulent material. 1,781,659; Nov. 11.
Barton, John H., assignor to The Florida Copy-Writing Corporation, Miami, Fla. Typewriter attachment. 1,781,312; Nov. 11.
Baylis, Walter S., assignor to Filtrol Company of California, Los Angeles, Calif. Making a decolorizing clay. 1,781,265; Nov. 11.
Beardslee Chandelier Manufacturing Company. (See Ohm, Albert J. D., assignor.)
Beattie, Ernest J., Fall River, Mass. Cutting device and tool therefor. 1,781,564; Nov. 11.
Beatty, Robert J., assignor to The Federal Glass Company, Columbus, Ohio. Method and apparatus for making articles of glassware. 1,781,565; Nov. 11.
Beaumont, R. H., Co. (See Beaumont, Robert H., assignor.)
Beaumont, Robert H., Radnor, Pa., assignor to R. H. Beaumont Co., Philadelphia, Pa. Skip-bucket discharge mechanism. 1,781,211; Nov. 11.
Beckers, Arnold, Cologne-Lindenthal, Germany. Coking oven. 1,780,992; Nov. 11.
Beckman, George V., Lodi, Calif. Disk-mounting attachment for harrows. 1,781,428; Nov. 11.
Beckwith, Arthur C., Caicago, Ill., and F. B. Farnsworth, Wadsworth, Ohio, assignors to Chicago Lubricator Company, Chicago, Ill. Automatic drifting valve for steam locomotives. 1,780,964; Nov. 11.
Bell, Ivan C., assignor to The Guiberson Corporation, Dallas, Tex. Multiple-cutter-disk bit. Re17,856; Nov. 11.
Bellamore, David H., New York, N. Y. Disk wheel. 1,780,897; Nov. 11.
Bell Telephone Laboratories, Incorporated. (See Bruce, Edmond, assignor.)
Bell Telephone Laboratories, Incorporated. (See Carpenter, W. W., and Hersey, assignors.)
Bell Telephone Laboratories, Incorporated. (See Dunham, Bert G., assignor.)
Bell Telephone Laboratories, Incorporated. (See Hague, Alfred E., assignor.)
Bell Telephone Laboratories, Incorporated. (See Harrison, Henry C., assignor.)
Bell Telephone Laboratories, Incorporated. (See Hoch, Ellery T., assignor.)
Bell Telephone Laboratories, Incorporated. (See Holland, Newman H., assignor.)
Bell Telephone Laboratories, Incorporated. (See Horton, Joseph W., assignor.)
Bell Telephone Laboratories, Incorporated. (See King, D. H., and Martin, assignors.)
Bell Telephone Laboratories, Incorporated. (See Mason, Warren P., assignor.)
Bell Telephone Laboratories, Incorporated. (See O'Neill, Henry W., assignor.)
Bell Telephone Laboratories, Incorporated. (See Thuras, Albert L., assignor.)
Bendix Brake Company. (See La Brie, Ludger E., assignor.)
Bendix Brake Company. (See Norton, Raymond J., assignor.)
Benedetto, Antonio, Annandale, near Sydney, New South Wales, Australia. Woodworking machinery. 1,781,429; Nov. 11.
Berman, Adolph, Jackson Heights, Long Island City, N. Y. Automobile ventilator. 1,780,903; Nov. 11.
Berrisford, William H., Stoke-on-Trent, England, assignor to Lockwood's Clean Coal Process Limited, London, England. Apparatus for separating coal from dirt and like foreign substances. 1,780,965; Nov. 11.
Bertschinger, Charles F., Jamaica, N. Y., assignor of three-fourths to Tide Water Oil Company, Bayonne, N. J. Antifraud means for storage tanks. 1,781,534; Nov. 11.
Berwick, Jo D., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Rubber or similar material. Des. 82,475; Nov. 11.
Bethenod, Joseph, Paris, France. Antenna. 1,781,046; Nov. 11.
Bilezikian, Arakel S., et al. (See Strom, Edwin W., assignor.)
Bilezikian, Paul, et al. (See Strom, Edwin W., assignor.)
Biscayne Trust Company et al., executors. (See Gold, E. H. and Russell.)
Biscayne Trust Company, et al, executors. (See Gold, E. H., Manchester, and Russell.)
Bishop & Babcock Manufacturing Company, The. (See Levy, Edward J., assignor.)
Biva, Lucien, Brooklyn, N. Y., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 82,476; Nov. 11.
Black, Edgar W. (See Boschke, A. C., and Black.)
Blacklock, John W., Brookfield, Mo. Grave cover and casket or vault decoration. 1,781,625; Nov. 11.
Blanchard, Hymen A., Buffalo, N. Y. Concrete curbing. 1,780,904; Nov. 11.
Blaney, William T., Peterborough, Ontario, Canada. Air cleaner. 1,781,430; Nov. 11.
Blau, Fritz, Berlin-Charlottenburg, Germany. Picture. 1,781,313; Nov. 11.
Blaw-Knox Company. (See Williams, Edward, assignor.)
Blesch, Johann W., Evansville, Ind. Cigarette holder. 1,781,566; Nov. 11.
Bliss, E. W., Company. (See Klocke, William, assignor.)
Blood, Howard E., Detroit, Mich., assignor to Norge Corporation. Rotary compressor. 1,781,095; Nov. 11.
Blood, Howard E., and R. Lapsley, assignors to Detroit Gear & Machine Company, Detroit, Mich. Gear-shift mechanism. 1,780,898; Nov. 11.
Blye, Paul W., Rutherford, N. J., assignor to American Telephone and Telegraph Company. Electrical transmission system. 1,780,966; Nov. 11.
Bohl, Hugo, Westfield, N. J., assignor to Radiant Lighting Fixture Co., Inc., New York, N. Y. Glass shade for a lighting fixture or article of similar nature. Des. 82,477; Nov. 11.
Bohl, Hugo, Westfield, N. J., assignor to Radian Lighting Fixture Co., Inc., New York, N. Y. Glass shade for a lighting fixture or article of similar nature. Des. 82,478; Nov. 11.
Böhling, Rudolf H., assignor to the firm of Rohrbogenwerk Gesellschaft mit beschrankter Haftung, Hamburg, Germany. Apparatus for producing bent pipes of correct prescribed lengths. 1,781,567; Nov. 11.
Bolduc, Joseph A., Montreal, Quebec, Canada, assignor to Automobile "Lock-Alarm" Corporation, New York, N. Y. Alarm apparatus. 1,781,096; Nov. 11.
Bondeson, Selma O., Seattle, Wash. Educational device. 1,781,047; Nov. 11.
Bonnot Company, The. (See Bonnot, Louis C., assignor.)
Bonnot, Louis C., Louisville, Ohio, assignor to The Bonnot Company, Canton, Ohio. Disk feeder and mixer. 1,781,097; Nov. 11.
Booth, Charles W., Chicago, Ill. Uncoupling device. 1,781,491; Nov. 11.
Booth, Nicol A., Dunedin, New Zealand. File guide for saw sharpening. 1,781,626; Nov. 11.
Borden Company, The. (See Green, Lee B., assignor.)
Borgnis, Samson, Olney, Pa. Garter grip. 1,781,431; Nov. 11.
Boschke, Albert C., and E. W. Black, Los Angeles, Calif. Shackle. 1,781,627; Nov. 11.
Both, Tonjes A., Stratford, assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn. Pilot-light receptacle. 1,781,535; Nov. 11.
Bottle Cap Patents Company. (See Swift, George W., jr., assignor.)
Boughton, Willis A., Cambridge, Mass. Manufacture of rubber. 1,781,492; Nov. 11.
Box Crane & Holst Corporation. (See Hogrebe, Arthur E., assignor.)
Boyle, Eldridge R., Boston, Mass. Carrier for garments. 1,781,628; Nov. 11.
Bradshaw, Harold C., and M. J. De Forest, Chicago, Ill., assignors, by mesne assignments, to United Research Corporation, Long Island City, N. Y. Sound-reproducing apparatus. 1,780,899; Nov. 11.
Braine, Bancroft G., assignor to The Rail Joint Company, New York, N. Y. Stress-balanced splice bar. 1,781,432; Nov. 11.
Braine, Daniel L., Brooklyn, assignor to The Rail Joint Company, New York, N. Y. Rail-joint bar. 1,781,433; Nov. 11.
Brandt, Millard, Tamaqua, Pa., assignor to Darco Corporation, Wilmington, Del. Water purification. 1,781,314; Nov. 11.
Brandt, Millard, Tamaqua, Pa., assignor to Darco Corporation, Wilmington, Del. Regenerating used cooking fats. 1,781,661; Nov. 11.
Braunstein, Schulim, Berlin, Germany. Container for storage and transport of liquefied gases. 1,781,048; Nov. 11.
Brenneis Manufacturing Company. (See Furrer, Samuel S., assignor.)
Brewer, William R., Duluth, Minn. Nonskid device. 1,780,967; Nov. 11.
Bridgeport Hardware Manufacturing Corporation, The. (See Platt, Arthur I., assignor.)
Bridwell, Charles C., Westerville, Ohio. Typewriting machine. 1,781,629; Nov. 11.
Briggs, Loyd A., Cranford, N. J., assignor to Radio Corporation of America. Signaling. 1,781,361; Nov. 11.
Bright, Martin C., Indianapolis, Ind. Automatic gravity cut-off-controlling apparatus. 1,781,315; Nov. 11.
Brigida, Joseph, New York, N. Y. Electrolysis device. 1,781,362; Nov. 11.
Brinton, Charles E., Los Angeles, Calif. Well-drilling tool. 1,781,049; Nov. 11.
Bristol, Edgar H., assignor to The Foxboro Company, Foxboro, Mass. Measuring instrument. 1,781,212; Nov. 11.
Brittain, Richard J., jr., Bloomfield, N. J., assignor to General Motors Corporation, Detroit, Mich. Journal box and frame connection. 1,781,213; Nov. 11.
Broderick, Ernest N., and T. D. Lucier, Detroit, Mich. Method of and mold for casting piston rings. 1,781,098; Nov. 11.
Broeker, Friedrich, Furstenwalde, Germany. Steam-drying or water-separating apparatus for steam power plants. 1,781,568; Nov. 11.
Brooks, Frank M. (See Haase, L. G., and Brooks.)
Brooks, William V., Des Moines, Iowa. Plant support. 1,781,316; Nov. 11.
Brophy, Lawrence W., Muskogee, Okla. Lavatory. 1,780,968; Nov. 11.
Brown, Alfred. (See Peabody, J. C., and Brown.)
Brown Company. (See Richter, G. A., and Schur, assignors.)
Brown Company. (See Sherman, John C., assignor.)
Brown, Herbert E., assignor of one-half to M. H. Mandelbaum, Chicago, Ill. Automobile reverse guard. 1,781,156; Nov. 11.

Brown, John J., assignor, by mesne assignments, to Servel, Inc., New York, N. Y. Refrigeration. 1,781,536; Nov. 11.
Brown, Theophilus, assignor to Deere & Company, Moline, Ill. Cultivator-wheel mounting. 1,780,900; Nov. 11.
Brownback, Henry L., Norristown, Pa. Inlet manifold. 1,781 434; Nov. 11.
Brownell, James L., assignor to Checker Cab Manufacturing Corporation, Kalamazoo, Mich. Motor-vehicle-control apparatus. 1,781,099; Nov. 11.
Bruce, Edmond, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical testing system. 1,781,363; Nov. 11.
Brueckler, Hans. (See Tolman, E. B. jr., and Brueckler.)
Bruni, Amedeo, New York, N. Y. Sound amplifier for airplanes. 1,781,266; Nov. 11.
Brunner, Rudolf, Ruschlikon, near Zurich, Switzerland. Process and apparatus for producing artistic designs. 1,780,969; Nov. 11.
Bryant Electric Company, The. (See Hadley, Donald L., assignor.)
Buffalo Forge Company. (See Criqui, Albert A., assignor.)
Bugbird, Herbert C., Richmond, N. Y. Preparing absorbents for liquid oxygen explosives and resulting absorbents and explosives. 1,781,214; Nov. 11.
Buhman, Richard, Casper, Wyo. Compound for mixing with cements and making the same. 1,781,267; Nov. 11.
Bulkley, Henry P., Oak Park, Ill. Twine holder. 1,781,364; Nov. 11.
Burgher, Clarence L., New York, N. Y. Heating inclosures electrically. Re17,857; Nov. 11.
Burgmann, Robert, Dresden, Germany. Packing or tightening plate. 1,781,365; Nov. 11.
Burkley, Clement J., and E. G. Kimmich, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Template for assembling strips of tire-chain material. 1,781,651; Nov. 11.
Burlin, Adolph L., London, England. Treatment of waste spun or woven textile material. 1,781,317; Nov. 11.
Burnelli, Vincent J., assignor to The Upperc-u-Burnelli Corporation. Aircraft. 1,780,993; Nov. 11.
Burney, Charles D., B. N. Wallis, N. S. Norway, and J. E. Temple, Westminster, London, assignors to Airship Guarantee Company, Limited, London, England. Rigid airship. 1,781,100; Nov. 11.
Burroughs Adding Machine Company. (See Horton, Allen A., assignor.)
Burroughs, James A., St. Clair, Mich. Water-power wheel. 1,780,901; Nov. 11.
Burrowes, E. T., Company, The. (See Corporon, George J., assignor.)
Burt, F. N., Company Limited. (See Darrin, Marc, assignor.)
Butler, Robert S., assignor to Southwestern Engineering Corp., Los Angeles, Calif. Filter apparatus. 1,780,905; Nov. 11.
Byington, James A., Orlando, Fla. Box-car brace. 1,781,318; Nov. 11.
Byrne Manufacturing Company, The. (See Dillhoefer, Henry M., assignor.)
Byron, Charles L., Chicago, Ill., assignor, by mesne assignments, to The Wayne Pump Company, Baltimore, Md. Lubricating means. 1,781,493; Nov. 11.
Cabrera Alfred B., assignor to G. A. Youngdahl, Chicago, Ill. Kites. 1,781,662; Nov. 11.
Cade, Arthur R., Pittsburgh, Pa., assignor to Carbide and Carbon Chemicals Corporation. Preparing ethyl esters. 1,781,050; Nov. 11.
Cairns Development Company. (See Carns, Edmund B., assignor.)
Caldwell, Charles A., Dallas, Tex. Sealing device for cocks. 1,780,994; Nov. 11.
Calkins, Claude C., Spokane, Wash. Shoe bearing. 1,781,157; Nov. 11.
Callahan, John M. (See Drumm, H. C., and Callahan.)
Campbell, Archibald N., London, England. Hull for water craft. 1,780,970; Nov. 11.
Campbell, Philip S., Houston, assignor of one-half to M. Culmore, Harris County, Tex. Electric iron. 1,781,158; Nov. 11.
Campula, Anton, Garfield Heights, Ohio. Pressure-actuated valve. 1,781,366; Nov. 11.
Carbide and Carbon Chemicals Corporation. (See Cade, Arthur R., assignor.)
Carey-McFall Co. (See Reukauf, Edward, jr., assignor.)
Carlson, Clarence G., assignor to Chicago Curtain Stretcher Company, Chicago, Ill. Curtain stretcher. 1,780,995; Nov. 11.
Carlson, Edwin G., Riverside, assignor to Speidel Chain Co., Providence, R. I. Extension device. 1,781,101; Nov. 11.
Carlson, Johannes R., assignor to The Arrow Electric Company, Hartford, Conn. Lamp socket. 1,781,663; Nov. 11.
Carns, Edmund B., New York, N. Y., assignor to Cairns Development Company, Wilmington, Del. Wing for aircraft. 1,781,159; Nov. 11.
Carns, Edmund B., Naugatuck, Conn., assignor to Cairns Development Company, Wilmington, Del. Aerofoil. 1,781,160; Nov. 11.
Carol Engineering, Inc. (See McElroy, R. H., and Meehan, assignors.)
Carpenter, Warren W., Queens Village, and R. E. Hersey, Brooklyn, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic toll switching telephone system. 1,780,906; Nov. 11.
Carper, Joseph B., Louisville, Ky. Production of paints. 1,781,435; Nov. 11.
Carrey, John O., assignor to Carrey-Morse Engineering Company, St. Louis, Mo. Adjustable mounting. 1,781,161; Nov. 11.
Carrey-Morse Engineering Company. (See Carrey, John O., assignor.)
Carrier Engineering Corporation. (See Carrier, Willis H., assignor.)
Carrier, Willis H., Essex Fells, assignor to Carrier Engineering Corporation, Newark, N. J. Refrigeration. 1,781,051; Nov. 11.
Carrigan, George W., Cleburne, Tex. Superheater-unit testing device. 1,781,494; Nov. 11.
Carroll, Vencent D., Chicago, Ill. Coffee urn. 1,780,996; Nov. 11.
Caruso, Louis, Irvington, N. J., assignor to The Lionel Corporation, New York, N. Y. Electrical toy. 1,781,537; Nov. 11.
Catlett, John E., San Francisco, Calif. Dishwashing machine. 1,781,052; Nov. 11.
Caughlan, Martha W., Oakland, assignor to American Woodlite Corporation, San Francisco, Calif. Compound reflector. 1,781,436; Nov. 11.
Celaya, Genaro, Los Angeles, Calif. Machine for husking coconuts. 1,781,215; Nov. 11.
Central Waxed Paper Company. (See Goddard, Paul L., assignor.)
Chain Belt Company. (See Gary, Francis P., assignor.)
Chandler, Carl B., assignor to Havana Metal Wheel Co., Havana, Ill. Safety control mechanism for fuel-burning devices. 1,780,971; Nov. 11.
Checker Cab Manufacturing Company, The. (See Johnson, Roy W., assignor.)
Checker Cab Manufacturing Corporation. (See Brownell, James L., assignor.)
Chéneau, Louis J. J. B., Paris, France. Temperature-responsive device. 1,781,630; Nov. 11.
Chicago Curtain Stretcher Company. (See Carlson, Clarence G., assignor.)
Chicago Lubricator Company. (See Beckwick, A. C., and Farnsworth, assignors.)
Chiles, George S. (See Dreibuss, H. C., and Chiles.)
Chisholm, Charles F., Staten Island, assignor of one-half to G. Ramsey, Brooklyn, N. Y. Braking and apparatus therefor. 1,781,437; Nov. 11.
Chrysler Corporation. (See Eisele, Charles W., assignor.)
Chrysler Corporation. (See Henderson, Herbert V., assignor.)
Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Radio system. 1,781,268; Nov. 11.
Cinema Patents Company. (See De Beaulieu, Leon, assignor.)
Cirne, Charles P., San Francisco, Calif. Reverse lock mechanism. 1,780,907; Nov. 11.
Clark, Dwight G. (See Allyn, Robert S.)
Clark, Edward E., Los Angeles, Calif. Shoulder-pistol holster. 1,781,162; Nov. 11.
Clark, John H., Whetstone, England. Piano. 1,781,216; Nov. 11.
Clark, Lida C., et al. (See Allyn, Robert S., assignor.)
Clarkson, Thomas A., Nashville, Tenn. Animal trap. 1,781,163; Nov. 11.
Clausen, Herbert M., Spokane, Wash. Pneumatic bumper. 1,780,908; Nov. 11.
Cleland, Melvin L., assignor to G. A. Roth Manufacturing Company, Hastings, Nebr. Side awning. 1,781,495; Nov. 11.
Clemens, Fred, Indianapolis, Ind. Automatic course counter and stop. 1,780,909; Nov. 11.
Clendon, George W., Piermont, N. Y., assignor to International Combustion Engineering Corporation. Finely-divided-fuel-burning locomotive. 1,781,319; Nov. 11.
Clodfelter, George M., Yonkers, assignor to The Rail Joint Company, New York, N. Y. Temporary rail joint shim. 1,781,438; Nov. 11.
Clover, John R., Enid, Okla. Cylinder washing machine. 1,781,217; Nov. 11.
Cocks, Edgar, assignor to Los Angeles Wall Bed Company, Los Angeles, Calif. Portable folding bed. 1,781,439; Nov. 11.
Coerper, Hans, Staten Island, assignor to International Combustion Engineering Corporation, New York, N. Y. Boiler furnace. 1,781,269; Nov. 11.
Coffey, Irven E., Hastings, Nebr. Gear-shifting mechanism. 1,781,270; Nov. 11.
Cohan, William M., and M. N. Patzan, Brooklyn, N. Y. Cushioned heel for shoes. 1,780,997; Nov. 11.
Collins, Ernest V., jr., Brooklyn, assignor to Delaware, Lackawanna & Western Coal Company, New York, N. Y. Treating coal. 1,781,102; Nov. 11.
Collins, Ernest V., jr., Brooklyn, assignor to Delaware, Lackawanna & Western Coal Company, New York, N. Y. Treating coal. 1,781,103; Nov. 11.
Collins, Frank, assignor to Metropolitan Lamp Co., Inc., New York, N. Y. Lamp base member or article of similar nature. Des. 82,479; Nov. 11.
Collins, Frank, assignor to Metropolitan Lamp Co., Inc., New York, N. Y. Lamp base member or article of similar nature. Des. 82,480; Nov. 11.

Collins, Frank, assignor to Metropolitan Lamp Co., Inc., New York, N. Y. Lamp base member or article of similar nature. Des. 82,481; Nov. 11.
Collins, Frank, assignor to Metropolitan Lamp Co., Inc., New York, N. Y. Lamp base member or article of similar nature. Des. 82,482; Nov. 11.
Collins, Frank, assignor to Metropolitan Lamp Co., Inc., New York, N. Y. Lamp base member or article of similar nature. Des. 82,483; Nov. 11.
Collins, Frank, assignor to Metropolitan Lamp Co., Inc., New York, N. Y. Lamp base member or article of similar nature. Des. 82,484; Nov. 11.
Collins, Frank, assignor to Metropolitan Lamp Co., Inc., New York, N. Y. Lamp base member or article of similar nature. Des. 82,485; Nov. 11.
Collins, Frank, assignor to Metropolitan Lamp Co., Inc., New York, N. Y. Lamp base member or article of similar nature. Des. 82,486; Nov. 11.
Collins, Frank, assignor to Metropolitan Lamp Co., Inc., New York, N. Y. Lamp base member or article of similar nature. Des. 82,487; Nov. 11.
Collins, Frank, assignor to Metropolitan Lamp Co., Inc., New York, N. Y. Lamp base member or article of similar nature. Des. 82,488; Nov. 11.
Columbus Dental Manufacturing Company, The. (See Moyer, James H., assignor.)
Combustion Utilities Corporation. (See Wonning, Harvey H., assignor.)
Common Brick Manufacturers' Association of America. (See Denison, George W., assignor.)
Congoleum-Nairn, Inc. (See Feeney, Joseph P., assignor.)
Connecticut Electric Manufacturing Company, The. (See Roth, Tonjes A., assignor.)
Connolly, William B., assignor to F. A. Smith Manufacturing Company, Inc., Rochester, N. Y. Electrical lighting device for cigars and the like. 1,781,440; Nov. 11.
Consolidated Iron-Steel Manufacturing Company, The. (See Kahn, Isaac T., assignor.)
Constable Charles E., assignor to The National Marking Machine Company, Cincinnati, Ohio. Bag holder. 1,781,164; Nov. 11.
Continental Can Company. (See Hodgson, William W., assignor.)
Cook, Calvin P., Arlington, Mass., assignor to Swift and Company, Chicago, Ill. Pork-loin brander. 1,781,367; Nov. 11.
Cook, Charles A., Redditch, England, assignor to Henry Wilkes & Company, Limited. Line-supporting ring for fishing rods. 1,781,569; Nov. 11.
Cook, Joel R., assignor to Domestic Electric Company, Cleveland, Ohio. Electric switch. 1,781,441; Nov. 11.
Cope-Swift Company Incorporated. (See Anderson, George C., assignor.)
Corporon, George J., assignor to The E. T. Burrowes Company, Portland, Me. Adjustable window screen. 1,781,654; Nov. 11.
Cormier, Alfred J. (See Slocombe, G. C., and Cormier.)
Cowdrey, George W., Los Angeles, Calif. Bathing suit. 1,781,271; Nov. 11.
Cowley, James T., Syracuse, N. Y., and W. J. Taylor, Winthrop Harbor, Ill., assignors to The Lamson Company, Syracuse, N. Y. Conveyer system. 1,781,655; Nov. 11.
Cox, Harold N., Glen Ridge, N. J., assignor to Cox Multi-Color Photo Company, Pittsburgh, Pa. Apparatus for color photography. 1,781,496; Nov. 11.
Cox Multi-Color Photo Company. (See Cox, Harold N., assignor.)
Crago, Paul H., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Train-annunciating apparatus. 1,781,497; Nov. 11.
Creedy, Frederick, London, England. Dynamo-electric machine. 1,781,538; Nov. 11.
Criqui, Albert A., assignor to Buffalo Forge Company, Buffalo, N. Y. Centrifugal fan. 1,781,165; Nov. 11.
Crosman, Loring P., Maplewood, assignor to Monroe Calculating Machine Company, Orange, N. J. Zero-setting device. 1,781,320; Nov. 11.
Crumrine, Chester W. (See Dorsey, F. F., and Crumrine.)
Culmore, March. (See Campbell, Philip S., assignor.)
Culp, John F., assignor to Ideal Lubricator Company, Philadelphia, Pa. Regulating valve for grease lubricating systems. 1,781,539; Nov. 11.
Cummings, Earle W., assignor to Watertite Casement Hardware Co., Los Angeles, Calif. Combination screen and sash mounting. 1,781,272; Nov. 11.
Curioni, Aldo, Larchmont, N. Y., assignor of one-half to J. R. Hinchcliffe, Carolina, R. I. Boat. 1,780,998; Nov. 11.
Currier, Arthur L., New Ipswich, N. H. Chuck. 1,781,442; Nov. 11.
Curtis Companies, Incorporated. (See Madsen, Sern, assignor.)
Curtis, Henry E., San Jose, Calif. Braking mechanism for motor vehicles. 1,781,443; Nov. 11.
Daco Corporation. (See Brandt, Millard, assignor.)
Dardelet, Hugues L., Nantes, France, assignor, by mesne assignments, to Dardelet Threadlock Corporation, New York, N. Y. Valve mechanism. 1,780,999; Nov. 11.
Dardelet Threadlock Corporation. (See Dardelet, Hugues L., assignor.)
Dardelet Threadlock Corporation. (See Hoke, William E., assignor.)
Dardelet Threadlock Corporation. (See Thomson, Alfred M., assignor.)
Darrin, Marc, Pittsburgh, Pa., assignor to F. N. Burt Company, Limited, Toronto, Canada. Composition of matter and forming same. Re17,867; Nov. 11.
Darrow, Burgess, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Wheel assembly. 1,781,273; Nov. 11.
Davidson, Archer, Brighton, Mass., assignor to Westinghouse Electric & Manufacturing Company. Power plant. 1,781,368; Nov. 11.
Davis, Augustine, jr., Cincinnati, Ohio. Hydraulically-operated tank valve. 1,781,369; Nov. 11.
Davis, James E., Glen Cove, N. Y. Toy dog team and sled. Des. 82,489; Nov. 11.
Day, Ivan E., Edgerton, Ohio. Car seal. 1,781,540; Nov. 11.
Day, Percy C., assignor to The Falk Corporation, Milwaukee, Wis. Ferryboat. 1,781,656; Nov. 11.
Dayton Scale Company. (See Gullberg, Roy K., assignor.)
Dean, Samuel W. (See Bailey, A., and Dean.)
De Beaulieu, Leon, Hollywood, Calif., assignor, by mesne assignments, to Cinema Patents Company, Inc., New York, N. Y. Forming light strips for motion-picture-film printers. 1,781,000; Nov. 11.
Debor, Hermann, Munich, Germany. Manufacturing rawcaoutchouc plates. 1,781,370; Nov. 11.
Deere & Company. (See Brown, Theophilus, assignor.)
De Forest, Matthew J. (See Bradshaw, H. C., and De Forest.)
Degener, Gustave O., assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,781,570; Nov. 11.
Degener, Gustave O., assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,781,571; Nov. 11.
Dehuff, Walter F., Glen Rock, Pa. Mixing machine. 1,781,321; Nov. 11.
De Lamar, Rudolph, New York, N. Y., assignor to H. S. Germond, jr., Bayonne, N. J. Portable elevator. 1,781,104; Nov. 11.
De Lange, Ambrose C., Kalispell, Mont. Carburetor. 1,781,218; Nov. 11.
Delaval-Crow, Thomas C., assignor to The New Departure Manufacturing Company, Bristol, Conn. Mounting for pinion shaft of rear axle. 1,781,219; Nov. 11.
Delaware, Lackawanna & Western Coal Company. (See Collins, Ernest V., jr., assignor.)
Delling, Erik H., Snyder, N. Y., assignor to Supersteam Products, Inc. Automotive vehicle. 1,781,322; Nov. 11.
Delo, Charles P., Knox, Pa. Aeroplane. 1,781,371; Nov. 11.
Dempster Mill Manufacturing Company. (See Smethers, J. A., and Elliott, assignors.)
Denecke, George, Milwaukee, Wis. Light support. 1,781,372; Nov. 11.
Dengler, Felton S., Port Neches, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Manufacture of lubricants. 1,781,444; Nov. 11.
Denison, George W., assignor to Common Brick Manufacturers' Association of America, Cleveland, Ohio. Metallic insert for brick or tile structures. 1,781,445; Nov. 11.
Dennett, Robert C. (See Mitchell, Harry V., assignor.)
Derfus, John J., Appleton, Wis. Curd-working machine. 1,781,373; Nov. 11.
De Roo, William C., assignor to The Fosdick Machine Tool Company, Cincinnati, Ohio. Feed-control mechanism. 1,781,274; Nov. 11.
Designograph Company. (See Barbera, Tony, assignor.)
Despa & Fils (Société en commandite par actions). (See Gohy, Jean, assignor.)
De Tovâros, Julius F., Budapest, Hungary. Current collector for electric railways. 1,781,323; Nov. 11.
Detroit Gear & Machine Company. (See Blood, H. E., and Lapsley, assignors.)
Detroit and Security Trust Company. (See Williams, James H., assignor.)
Deutsch, Leo, Beaver, Pa., assignor, by mesne assignments, to The Wayne Pump Company, Baltimore, Md. High-pressure grease gun. 1,781,374; Nov. 11.
De Vault, Ralph P., Villa Park, assignor, by mesne assignments, to Acme Motion Picture Projector Company, Chicago, Ill. Illuminating system, reflector, and lamp assembly. 1,781,053; Nov. 11.
Dictaphone Corporation. (See Woodbridge, Charles K., assignor.)
Diebold Safe & Lock Company, The. (See Abbott, Albert L., assignor.)
Dies, Charles A., Chicago, Ill. Hairpin. 1,781,324; Nov. 11.
Diesel, William F. (See Hill, W. R., and Diesel.)
Dillhoefer, Henry M., Cleveland Heights, assignor to The Byrne Manufacturing Company, Cleveland, Ohio. Bung ring. 1,781,166; Nov. 11.
Di Neuberg, Ferdinando B., Treviso, Italy. Fluid-operated apparatus for lifting automobile wheels. 1,780,972. Nov. 11.
Dobson, William D., Cleveland, Ohio. Gearing for machines. 1,781,275; Nov. 11.
Dockson, Charles H., Detroit, Mich. Pressure-regulating valve. 1,781,054; Nov. 11.
Doell, Theodore W., Berkeley, and E. N. Klemgard, Albany, assignors to Standard Oil Company of California, San Francisco, Calif. Chatterless oil and producing the same. 1,781,167; Nov. 11.

Doherty Research Company. (See Greenfield, Benjamin, assignor.)
Dollin, Edgar N., Malba, N. Y., and C. C. Jacobson, Glen Ridge, N. J.; said Jacobson assignor to John Robertson Co., Inc., Brooklyn, and said Dollin assignor to Allied Die-Casting Corporation, Long Island City, N. Y. Die-casting machine. 1,781,168; Nov. 11.
Domestic Electric Company. (See Cook, Joel R., assignor.)
Dornier, Claudius, assignor to the firm: Dornier-Metallbauten G. m. b. H., Friedrichshafen-on-the-Bodensee, Germany. Accommodation of liquids in flying machines. 1,781,446; Nov. 11.
Dornier-Metallbauten G. m. b. H. (See Dornier, Claudius, assignor.)
Dorsey, Farnum F., South Orange, N. J., and C. W. Crumrine, assignors, by mesne assignments, to North East Appliance Corporation, Rochester, N. Y. Power-transmission mechanism. Re17,858; Nov. 11.
Dowling, Robert W., New York, N. Y. Bathtub. 1,781,325; Nov. 11.
Downard, James S., Dallas, Tex. Premixed asphalt composition and producing the same. 1,781,105; Nov. 11.
Dräger, Otto H. (See Stelzner, Hermann, assignor.)
Dreibus, Harry C., and G. S. Chiles, assignors to Scullin Steel Company, St. Louis, Mo. Truck bolster. 1,781,106; Nov. 11.
Drumm, Herbert C., and J. M. Callahan, assignors to The Union Metal Manufacturing Company, Canton, Ohio. Metal building. 1,781,498; Nov. 11.
Drummond, Walter J., assignor of one-half to Ashington Coal Company Limited, Newcastle-upon-Tyne, England. Apparatus for pulverizing coal and like substances. 1,781,572; Nov. 11.
Dudley, Robert L., San Francisco, Calif. Indicating device for carriers. 1,781,055; Nov. 11.
Dunbar, Thomas L., Watertown, N. Y. Digestion of fibrous material. 1,781,447; Nov. 11.
Dunham, Bert G., Hawthorne, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Testing system. 1,780,910; Nov. 11.
Dunlap, Clarence E., Sioux City, Iowa. Inner-tube patch. Re17,759; Nov. 11.
Dunnican, George W., Bloomfield, N. J., assignor to Weimann Bros. Manufacturing Company, Derby, Conn. Clip for collapsible tubes. 1,781,448; Nov. 11.
Duplan Silk Corporation. (See Maurus, Harry, assignor.)
Duplate Corporation. (See Sherts, J. H., and Hamill, assignors.)
Du Pont, Francis I., assignor to U. S. F. Powder Company, Wilmington, Del. Smokeless powder. 1,780,911; Nov. 11.
Durable Mat Company. (See Lyons, Charles T., assignor.)
Durchman, Lauri I. L., Petersburg, Va. Manufacturing high-grade alpha cellulose. 1,781,449; Nov. 11.
Easton, Lucian F., La Crosse, Wis. Rotary air pump. 1,781,375; Nov. 11.
Eberhardt, Rudolph, Brooklyn, N. Y. Toilet-accessories container. Des. 82,536; Nov. 11.
Eberling, Charles M., Cleveland, Ohio. Roller bearing. 1,781,450; Nov. 11.
Ebert, Laurence R., Vancouver, Wash. Carburetor. 1,781,276; Nov. 11.
Eckstein, Gustav, Barmen, Germany. Making double-sided molds. 1,781,451; Nov. 11.
Edahl, Knute, Chicago, Ill. Refrigerator car. 1,781,169; Nov. 11.
Edgren, Fred E., Chicago, Ill. Straightedge for wall-paper trimmers. 1,781,499; Nov. 11.
Einstein, Albert, Berlin, and L. Szilard, Berlin-Wilmersdorf, Germany, assignors to Electrolux Servel Corporation, New York, N. Y. Refrigeration. 1,781,541; Nov. 11.
Eisele, Charles W., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Muffler. 1,781,001; Nov. 11.
Eisenhour, Bert E., Aurora, assignor, by mesne assignments, to United Reproducers Corporation, St. Charles, Ill. Electrodynamic sound recorder and reproducer. 1,781,376; Nov. 11.
Elder, Jules H., Memphis, Tenn. Individual-pan-supporting device. 1,781,056; Nov. 11.
Electric Boat Company. (See Grieshaber, Hugo E., assignor.)
Electric Service Supplies Company. (See Graham, Herbert J., assignor.)
Electrolux Servel Corporation. (See Einstein, A., and Szilard, assignors.)
Ellinger, Albert E., Snyder, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Electric heater. Des. 82,490; Nov. 11.
Elliott, Harry C., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,781,500; Nov. 11.
Elliott, William. (See Smethers, J. A., and Elliott.)
Elmwall, Gustave W., New York, N. Y. Steam boiler. 1,781,057; Nov. 11.
Engberg, Axel O., and A. Eriksson-Jons, Stockholm, Sweden, assignors to Inventia Patent-Verwertungs-Gesellschaft, Schaffhausen, Switzerland. Blowing nozzle for suction cleaners. 1,781,542; Nov. 11.
Eriksson-Jons, Anders. (See Engberg, A. O., and Eriksson-Jons.)
Errett, John B., Connellsville, Pa. Clothesline fastener. 1,781,573; Nov. 11.
Esnault-Pelterie, Robert, Paris, France. Method and apparatus for use in testing materials. 1,781,002; Nov. 11.
Etablissements Edouard Belin. See Holweck, Fernand, assignor.)
Exolon Company, The. (See Walton, Samuel F., assignor.)
Eyernschmalz, William, Milwaukee, Wis. Necktie. 1,781,377; Nov. 11.
Fageol, Rollie B., Los Angeles, Calif. Vehicle snubber and spring suspension. 1,781,631; Nov. 11.
Falk Corporation, The. (See Day, Percy C., assignor.)
Farnsworth, Fordyce B. (See Beckwith, A. C., and Farnsworth.)
Fearis, James J., Smackover, Ark. Oil-treating apparatus. 1,781,632; Nov. 11.
Federal Glass Company, The. (See Beatty, Robert J., assignor.)
Fedrizzi, Riccardo, Weston, Pa. Automatic control for aeroplanes. 1,781,633; Nov. 11.
Feeney, Joseph P., Kearny, N. J., assignor to Congoleum-Nairn, Inc. Calender roll. 1,781,378; Nov. 11.
Fehr, John R., Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation. Refrigerating apparatus. 1,781,003; Nov. 11.
Fenk, George, Brooklyn, N. Y. Boiler-tap guide. 1,781,634; Nov. 11.
Ferguson, Berlin S., assignor, by mesne assignments, to The Marion Steam Shovel Company, (1927), Marion, Ohio. Crawling traction truck. 1,781,170; Nov. 11.
Ferngren, Enoch T., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Method and apparatus for drawing sheet glass. 1,781,452; Nov. 11.
Ferris, Ervie A., Westwood, Calif. Device for controlling the travel of tong dogs for sawmill carriages. 1,781,220; Nov. 11.
Ferris, Ervie A., Westwood, Calif. Differential truck for sawmill carriages. 1,781,221; Nov. 11.
Fickinger, Emil H., et al. (See Allyn, Robert S., assignor.)
Filtrol Company of California. (See Baylis, Walter S., assignor.)
Firestone Tire & Rubber Company, The. (See Hulslander, Ray D., assignor.)
Fischacher, Henry L., Boston, Mass. Oven scoop. 1,781,635; Nov. 11.
Fischer, Albert. (See Wahl, H., and Fischer.)
Fischer, Arthur I., Cleveland Heights, assignor to The Republic Brass Company, Cleveland, Ohio. Pipe joint or connection. 1,781,222; Nov. 11.
Fischer, Max M., Brooklyn, N. Y. Automobile radiator screen. Des. 82,491; Nov. 11.
Fitzpatrick, Frank B., Holyoke, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Movable bleacher. 1,781,058; Nov. 11.
Flintkote Company. (See Harris, William A., assignor.)
Florida Copy-Writing Corporation, The. (See Barton, John H., assignor.)
Ford, George W., Brighton, assignor to H. G. Ponting, London, England. Camera and other optical projection device. 1,781,501; Nov. 11.
Ford, Henry, assignor to Ford Motor Company, Dearborn, Mich. Carburetor. 1,781,502; Nov. 11.
Ford, Henry, assignor to Ford Motor Company, Dearborn, Mich. Vehicle construction. 1,781,503; Nov. 11.
Ford Motor Company. (See Ford, Henry, assignor.)
Ford Motor Company. (See Galamb, Joseph, assignor.)
Ford, William C., Andover, Mass. Fountain pen. 1,781,504; Nov. 11.
Forstner Chain Corporation. (See Forstner, William, assignor.)
Forstner, William, assignor to Forstner Chain Corporation, Irvington, N. J. Flexible metallic strap. 1,781,379; Nov. 11.
Fosdick Machine Tool Company, The. (See De Roo, William C., assignor.)
Foshay, W. B., Co. (See Foshay, W. B., and Magney, assignors.)
Foshay, Wilbur B., and G. R. Magney, assignors to W. B. Foshay Co., Minneapolis, Minn. Building. Des. 82,492; Nov. 11.
Foxboro Company, The. (See Bristol, Edgar H., assignor.)
Foxboro Company, The. (See Reynolds, Irving W., assignor.)
Frame, Augustus J., assignor to Franklin Oil Heating, Inc., Columbus, Ohio. Automatic controlling mechanism. 1,781,453; Nov. 11.
Franklin Oil Heating, Inc. (See Frame, Augustus J., assignor.)
Franklin Railway Supply Company. (See Martin, Frederick W., assignor.)
Franklin Simon & Company. (See Long, Dorothy, assignor.)
Frederickson, Otto A., Ben Avon, Pa., assignor to National Electric Products Corporation, New York, N. Y. Protected armored cable or conduit. 1,781,574; Nov. 11.
Friedman, Isadore, Roxbury, Mass. Combined beacon and lantern. 1,781,326; Nov. 11.
Frigidaire Corporation. (See Fehr, John R., assignor.)
Furrer, Samuel S., Oxnard, Calif., assignor to Brenneis Manufacturing Company, Oxnard, Calif. Disk harrow. 1,781,171; Nov. 11.
G & W Electric Specialty Co. (See Williams, Paul F., assignor.)
Galamb, Joseph, Detroit, assignor to Ford Motor Company, Dearborn, Mich. Door latch. 1,781,505; Nov. 11.

Galloway Engineering Company Limited. (See Greening, H. B., and Galloway, assignors.)
Galloway, James W. (See Greening, H. B., and Galloway.)
Gammeter, Harry C., Cleveland Heights, Ohio. Sign construction. 1,781,277; Nov. 11.
Gandriaut, Lucien, Nancy, France. Weighing apparatus. 1,781,575; Nov. 11.
Garfield, Ellery I., Paris, France. Vehicle body. 1,781,380; Nov. 11.
Gary, Francis P., assignor to Chain Belt Company, Milwaukee, Wis. Endless sectional water screen. 1,781,223; Nov. 11.
Gau, Henry F., Cincinnati, Ohio. Dilator. 1,780,912; Nov. 11.
Gearheart, Edgar G. (See Rohaut, C. N., and Gearheart.)
General Aniline Works, Inc. (See Kränzlein, G., Roemer, and Kronholz, assignors.)
General Aniline Works, Inc. (See Mieg, Walter, assignor.)
General Aniline Works, Inc. (See Scheyer, Heinz, assignor.)
General Electric Company. (See Hall, Chester I., assignor.)
General Electric Company. (See Hewlett, E. M., and Willard, assignors.)
General Electric Company. (See Marcellus, Frederick S., assignor.)
General Electric Company. (See Petch, H. S., and Wellings, assignors.)
General Electric Company. (See Walle, Ludwig, assignor.)
General Motors Corporation. (See Brittain, Richard J., jr., assignor.)
General Motors Corporation. (See Hess, Herman O., assignor.)
General Motors Corporation. (See Liebermann, Paul B., assignor.)
Germond, Henry S., jr. (See DeLamar, Rudolph, assignor.)
Gibson, Wilfrid, and C. R. Henshaw, Blackley, Manchester, assignors to Imperial Chemical Industries Limited, Westminster, England. Purification of triaryl phosphates. 1,781,225; Nov. 11.
Giezentanner, Charles L., Montesano, Wash. Plant-treating apparatus. 1,781,004; Nov. 11.
Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)
Gilbert, Alfred C., North Haven, assignor to The A. C. Gilbert Company, New Haven, Conn. Mixing apparatus. 1,781,381; Nov. 11.
Gill, E. R., Battery Co. (See Gill, Edwin R., assignor.)
Gill, Edwin R., Yonkers, assignor to E. R. Gill Battery Co., Inc., New York, N. Y. Electric-battery system. 1,781,005; Nov. 11.
Gill, Henry F., Pittsburgh, Pa. Valve. 1,781,224; Nov. 11.
Gillette Rubber Co. (See Hutchens, R. W., and Krause, assignors.)
Gillette Rubber Company. (See Krause, Arnold R., assignor.)
Gilligan, Edward J., Croton-on-Hudson, and A. H. McLean, Ossining, N. Y. Track sander. 1,781,637; Nov. 11.
Gilliland, Francis N. (See Oyster, E. F., and Gilliland.)
Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. Railway-car-hopper door. 1,781,454; Nov. 11.
Glanschnig, Ignatz, Gary, assignor of twenty-five per cent to J. D. Meyers, Hobart, Ind. Aeroplane. 1,781,455; Nov. 11.
Gleaner Combine Harvester Corporation, The. (See Pierson, Torvald N., assignor.)
Goddard, Paul L., Oak Park, assignor to Central Waxed Paper Company, Chicago, Ill. Ice-cream-container liner. 1,781,006; Nov. 11.
Godefroy, Alexandre F., Mexico, Mexico. Sport jumping apparatus. 1,781,506; Nov. 11.
Goellner, John A., assignor to Monarch Metal Weatherstrip Corporation, St. Louis, Mo. Weather strip. 1,781,382; Nov. 11.
Goertz, August, & Company. (See Goertz, Walter A., assignor.)
Goertz, Walter A., East Orange, N. J., assignor to August Goertz & Company, Inc. Vanity box. Des. 82,493; Nov. 11.
Gohy, Jean, Spa, assignor to Despa & Fils (Société en commandite par actions), Verviers, Belgium. Machine for the manufacture of card clothing. 1,781,383; Nov. 11.
Goinard, Joseph M. A., St.-Nazaire, France. Carburetor for internal-combustion engines supplied with heavy oil. 1,781,327; Nov. 11.
Gold, Egbert H., deceased, Evanston, T. H. Manchester, and E. A. Russell; said Manchester and said Russell assignors to Vapor Car Heating Company, Inc., Chicago, Ill.; M. J. Gold and Biscayne Trust Company, executors. Hose coupler. 1,781,543; Nov. 11.
Gold, Egbert H., deceased, Evanston, and E. A. Russell; said Russell assignor to Vapor Car Heating Company, Inc., Chicago, Ill.; M. J. Gold and Biscayne Trust Company, executors. Flexible pipe structure. 1,781,456; Nov. 11.
Gold, Egbert H., deceased, Evanston, and E. A. Russell; said Russell assignor to Vapor Car Heating Company, Inc., Chicago, Ill.; M. J. Gold and Biscayne Trust Company, executors. Flexible pipe structure. 1,781,457; Nov. 11.
Gold, Margaret J., et al., executors. (See Gold, E. H., Manchester, and Russell.)
Gold, Margaret J., et al., executors. (See Gold, E. H., and Russell.)
Golden, Robert F., South Orange, assignor to National Lock Washer Company, Newark, N. J. Curtain for railroad-car windows. 1,780,913; Nov. 11.
Gollnick, Paul A., J. J. Toolan, and G. Harred, assignors, by mesne assignments, to Selectograph Company, Chicago, Ill. Delivery mechanism for addressing machines. 1,781,007; Nov. 11.
Goodfriend, Henry, assignor to Mutual Metal Manufacturing Company, Chicago, Ill. Lighting-fixture canopy or the like. Des. 82,494; Nov. 11.
Goodfriend, Henry, assignor to Mutual Metal Manufacturing Company, Chicago, Ill. Lighting-fixture globe holder or the like. Des. 82,495; Nov. 11.
Goodrich, Cephus G., Wakefield, Va. Fertilizer distributor. 1,781,278; Nov. 11.
Goodyear Tire & Rubber Company, The. (See Berwick, Jo D., assignor.)
Goodyear Tire & Rubber Company, The. (See Burkley, C. J., and Kimmich, assignors.)
Goodyear Tire & Rubber Company, The. (See Darrow, Burgess, assignor.)
Goodyear Tire & Rubber Company, The. (See Jenkinson, Ross E., assignor.)
Goodyear Tire & Rubber Company, The. (See Keller, Parry, assignor.)
Goodyear Tire & Rubber Company, The. (See Kraft, Herman T., assignor.)
Goodyear Tire & Rubber Company, The. (See Sebrell, Lorin B., assignor.)
Goodyear Tire & Rubber Company, The. (See Teegarden, Homer R., assignor.)
Goodyear Tire & Rubber Company, The. (See Teppema, Jan, assignor.)
Gore, Thomas, Brooklyn, N. Y. Securing together two intersecting strands. 1,781,458; Nov. 11.
Gorsuch, Robert A., Gambier, Ohio. Shipping box for chicks. 1,781,279; Nov. 11.
Goudard, Maurice, assignor to Société Anonyme Solex, Neuilly, France. Carburetor. 1,781,576; Nov. 11.
Gould & Eberhardt. (See Jacobson, Hugo W., assignor.)
Gould & Eberhardt. (See Zimmermann, William F., assignor.)
Grace, John F., Arlington, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Condenser. 1,781,107; Nov. 11.
Grace, John F., Arlington, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Exhaust connection for condensers. 1,781,108; Nov. 11.
Graf, Edward F., assignor to Winters & Crampton Mfg. Co., Grand Rapids, Mich. Latch. 1,781,172; Nov. 11.
Graham, Herbert J., assignor to Electric Service Supplies Company, Philadelphia, Pa. Lighting unit. 1,781,544; Nov. 11.
Graham, Oakley J. (See Graham, Ota T. and O. J.)
Graham, Ota T. and O. J., Richmond, Va. Truck for transporting cementitious materials. 1,780,973; Nov. 11.
Grand Rapids Store Equipment Corporation. (See Morris, E., and Vanderveld, assignors.)
Gravell, James H., Elkins Park, Pa., assignor to American Chemical Paint Company, Ambler, Pa. Preparing metal for painting. 1,781,507; Nov. 11.
Grayson, John H., Lynwood Calif. Thermostat-valve structure. 1,781,328; Nov. 11.
Great Western Meter Company. (See Lyman, Ray J., assignor.)
Green, Estill I. (See Affel, H. A., and Green.)
Green, John L., El Dorado, Ark. Fluid air cleaner. 1,781,638; Nov. 11.
Green, Lee B., Lakewood, assignor to The Borden Company, Warren, Ohio. Friction clutch. 1,781,173; Nov. 11.
Greenbaum, Harry, Kansas City, Mo. Outer dress garment for ladies' wear. Des. 82,496; Nov. 11.
Greenfield, Benjamin, assignor to Doherty Research Company, New York, N. Y. Fluid-fuel-fired boiler. 1,781,174; Nov. 11.
Greening, Herald B., Hamilton, Ontario, Canada, and J. W. Galloway, Detroit, Mich., assignors to Galloway Engineering Company Limited, Hamilton, Ontario, Canada. Internal-combustion engine. 1,781,008; Nov. 11.
Greening, Herald B., Hamilton, Ontario, Canada, and J. W. Galloway, Detroit, Mich., assignors to Galloway Engineering Company Limited, Hamilton, Ontario, Canada. Two-cycle internal-combustion engine. 1,781,009; Nov. 11.
Griesbaber, Hugo E., New London, Conn., assignor to Electric Boat Company, Groton, Conn. Twin gun mount for submarines. 1,781,175; Nov. 11.
Griffin, James H., St. Helens, assignor to Pilkington Brothers Limited, Liverpool, England. Process of and apparatus for washing off the felts of polisher runners in glass-polishing apparatus. 1,781,226; Nov. 11.
Grissinger, David A. (See Neidhammer, Clyde, assignor.)
Groenenstein, Philip, Cleveland, Ohio. Glare shield. 1,781,545; Nov. 11.

Gross, Jacob G., San Gabriel, Calif. Bevel-cut patch for tubes and other rubber goods. Re17,860; Nov. 11.
Gross, Joseph, and I. Hellman, Bronx, N. Y. Dental handpiece. 1,781,508; Nov. 11.
Grout, Martin B., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Socket. 1,781,384; Nov. 11.
Grubb, Adin A. (See Marshall, Leslie H., assignor.)
Grube, John H., Pasadena, Calif., assignor to Grube Silent Motors Incorporated, Phoenix, Ariz. Engine valve. 1,781,176; Nov. 11.
Grube Silent Motors Incorporated. (See Grube, John H., assignor.)
Guiberson Corporation, The. (See Bell, Ivan C., assignor.)
Gullberg, Roy K., assignor to Dayton Scale Company, Dayton, Ohio. Meat chopper. 1,780,914; Nov. 11.
Gurney, Albert J., assignor to The American Mine Door Company, Canton, Ohio. Rock duster. 1,781,509; Nov. 11.
Haas, Carl F., South Bend, Ind., assignor to Westinghouse Electric and Manufacturing Company. Globe for a lighting fixture. Des. 82,497; Nov. 11.
Haas, Carl F., South Bend, Ind., assignor to Westinghouse Electric and Manufacturing Company. Finial for lighting fixtures or similar articles. Des. 82,498; Nov. 11.
Haase, Leo G., and F. M. Brooks, assignors to Art Concrete Works, Pasadena, Calif. Water-meter box. 1,781,280; Nov. 11.
Hackenberg, Nafanaiel. (See Hackenberg, Stanislav, assignor.)
Hackenberg, Stanislav, assignor of one-half to N. Hackenberg, San Francisco, Calif. Turbine. 1,781,059; Nov. 11.
Hadley, Donald L., Mansfield, Ohio, assignor to The Bryant Electric Company, Bridgeport, Conn. Electrical connector or similar article. Des. 82,499; Nov. 11.
Hague, Alfred E., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone-exchange system. 1,781,385; Nov. 11.
Hall-Brown, Archibald, Purley, and E. W. Jones, Lincoln, England, assignors to The Babcock & Wilcox Company, Bayonne, N. J. Airship-mooring-mast gear. 1,781,010; Nov. 11.
Hall, Carter F., Baltimore, Md. Cooling system for passenger vehicles. 1,781,151; Nov. 11.
Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. Synchronous motor-driven phonograph. 1,781,577; Nov. 11.
Hall, Jay B., Eugene, Oreg. Snowplow. 1,781,578; Nov. 11.
Hall, W. F., Printing Company. (See Harrison, William H., jr., assignor.)
Halvorsen, Severin, Chicago, Ill., assignor to The Newspaper Stuffing Machine Company, Seattle, Wash. Pneumatic feed mechanism. Des. 17,861; Nov. 11.
Hamill, Robert E. (See Sherts, J. H., and Hamill.)
Handley, George F., Glendale, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,781,579; Nov. 11.
Hannum, Freda L., Seattle, Washington. Curtain drier and stretcher. 1,781,177; Nov. 11.
Harber, Laurence S., assignor, by mesne assignments, to Baker Perkins Company, Inc., Saginaw, Mich. Dough-molding machine. 1,781,546; Nov. 11.
Harders, Conrad F. (See Link, R. A., and Harders.)
Hardinge Company. (See Hardinge, Harlowe, assignor.)
Hardinge, Harlowe, assignor to Hardinge Company, Incorporated, York, Pa. Apparatus for disintegrating ore and other material. 1,780,915; Nov. 11.
Harner, John Z., and H. S. Schweinhart, assignors to The Union Manufacturing Company, Boyertown, Pa. Top burner for gas stoves. 1,781,386; Nov. 11.
Harred, George. (See Gollnick, P. A., Toolan, and Harred.)
Harris, Mark, New Rochelle, N. Y. Game table. Des. 82,533; Nov. 11.
Harris, William A., Newton, assignor to Flintkote Company, Boston, Mass. Roofing shingle. Re17,862; Nov. 11.
Harrison, Henry C., Port Washington, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Diaphragm. 1,781,387; Nov. 11.
Harrison, William H., jr., assignor to W. F. Hall Printing Company, Chicago, Ill. Tipping machine. 1,780,916; Nov. 11.
Hartford-Empire Company. (See Peiler, Karl E., assignor.)
Hatch, Alexander G., Farmington, assignor to The Sesamee Company, Hartford, Conn. Permutation lock. 1,781,510; Nov. 11.
Havana Metal Wheel Co. (See Chandler, Carl B., assignor.)
Haviland & Co. (Societe Anonyme). (See Zenker, Paul, assignor.)
Hawkins, Raymond L., assignor to Long Manufacturing Company, Detroit, Mich. Radiator. 1,781,511; Nov. 11.
Heckel, Charles E. (See Schroeter, George A., assignor.)
Heitmuller, Henry, Cullman, Ala. Harrow. 1,781,459; Nov. 11.
Hellot, Maurice, Troyes, France. Tailoring. 1,781,580; Nov. 11.
Hellman, Isaac. (See Gross, J., and Hellman.)
Hellyer, Reginald H., London, England. Pipe joint. 1,781,581; Nov. 11.
Helm, Clyde D., Fort Work, Tex. Pressure-relief device. 1,781,227; Nov. 11.
Henderson, Herbert V., assignor to Chrysler Corporation, Detroit, Mich. Automobile filler cap or similar article. Des. 82,500; Nov. 11.
Henderson, Herbert V., assignor to Chrysler Corporation, Detroit, Mich. Instrument panel. Des. 82,501; Nov. 11.
Henshaw, Charles R. (See Gibson, W., and Henshaw.)
Hercules Powder Company. (See Symmes, Ernest M., assignor.)
Heritage, Clark C., Buffalo, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Filter discharger. 1,781,389; Nov. 11.
Herrick, Thomas E., jr., Philadelphia, Pa. Cylinder structure. 1,781,582; Nov. 11.
Herschmann, Arthur J., New York, N. Y. Match-holding paper weight. Des. 82,502; Nov. 11.
Hersey, Ralph E. (See Carpenter, W. W., and Hersey.)
Herthel, Eugene C., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Refining hydrocarbons. 1,781,388; Nov. 11.
Herthel, Eugene C., Chicago, Ill., and E. W. Isom, Locust Valley, N. Y., assignors to Sinclair Refining Company, Chicago, Ill. Cracking of oils. 1,781,390; Nov. 11.
Herzberg, Anton A., Waukesha, and H. O. Schultz, Milwaukee, Wis., assignors to The National Automatic Tool Company, Richmond, Ind. Slip-spindle device. 1,781,109; Nov. 11.
Herzberg, Harry, Brooklyn, N. Y. Dusting mop. 1,781,460; Nov. 11.
Hess, Herman O., Saginaw, Mich. Lathe for turning crank shafts. 1,781,229; Nov. 11.
Hess, Herman O., Saginaw, assignor to General Motors Corporation, Detroit, Mich. Lathe for turning crank shafts. 1,781,228; Nov. 11.
Hewlett, Edward M., and W. W. Willard, Schenectady, N. Y., assignors to General Electric Company. Electric switch. 1,781,178; Nov. 11.
Hill, Henry, Paignton, England. Apparatus for playing golf in restricted spaces or indoors. 1,781,230; Nov. 11.
Hill, Louis A., Washington, D. C. Collar fastener. 1,781,639; Nov. 11.
Hill, William R., and W. F. Diesel, assignors to Sargent & Greenleaf, Inc., Rochester, N. Y. Safety receptacle for small articles. 1,781,060; Nov. 11.
Hillebrand, Paul, assignor to firm Werdohler, Pumpenfabrik Paul Hillebrand G. m. b. H., Werdohl, Germany. Artificial-silk-spinning machine. 1,781,231; Nov. 11.
Hinchcliffe, John R. (See Curioni, Aldo, assignor.)
Hinnekens, Florent, assignor to Van Vlaanderen Machine Company, Paterson, N. J. Method and apparatus for treating fabrics with liquids. 1,781,391; Nov. 11.
Hobbs Manufacturing Company. (See Klaucke, George W., assignor.)
Hoch, Ellery T., Bloomfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric condenser. 1,781,917; Nov. 11.
Hodges, Fred M., et al. (See McFarland, Ernest H., assignor.)
Hodges, James A., et al. (See McFarland, Ernest H., assignor.)
Hodges, John M., et al. (See McFarland, Ernest H., assignor.)
Hodgson, William W., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Handle grip for pails. 1,781,583; Nov. 11.
Hoe, R., & Co. (See Knox, Harry G., assignor.)
Hoegger, Joseph A., Jersey City, N. J. Adjustable-tension paper holder. 1,781,547; Nov. 11.
Hoffer, Le Roy H., assignor to Metropolitan Engineering Company, Brooklyn, N. Y. Welding clamping device. 1,781,548; Nov. 11.
Hogrebe, Arthur E., assignor to Box Crane & Hoist Corporation, Philadelphia, Pa. Crane trolley. 1,781,281; Nov. 11.
Hoke, William E., Baltimore, Md., assignor to Dardelet Threadlock Corporation, New York, N. Y. Valve mechanism. 1,781,011; Nov. 11.
Holland, Charlotte M., administratrix. (See Holland, Newman H.)
Holland, Newman H., deceased, by C. M. Holland, administratrix, Upper Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Recording telephone conversations. 1,780,919; Nov. 11.
Holland, Walter E., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Electric battery. 1,781,641; Nov. 11.
Holland, Walter E., Philadelphia, and L. J. Pearson, Wyncote, Pa., assignors to Philadelphia Storage Battery Company, Philadelphia, Pa. Electrolyte cell. 1,781,641; Nov. 11.
Holt, Carl E., Kansas City, Mo. Lubrication guide. 1,781,512; Nov. 11.
Holweck, Fernand, assignor to Etablissements Edouard Belin, Paris, France. Electrical tuning fork. 1,781,513; Nov. 11.
Holzman, Herman, Newark, N. J. Musical-instruction device. 1,780,918; Nov. 11.
Honeycutt, Paul, Mooresville, N. C. Safety attachment for cottonseed linters. 1,781,061; Nov. 11.
Honigbaum, Harry H., New York, N. Y. Match. 1,780,920; Nov. 11.

Hopewell, Frank B., as trustee. (See Peabody, J. C., and Brown, assignors.)

Horton, Alien A., Plymouth, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich. Transfer mechanism for calculating machines. 1,781,179; Nov. 11.

Horton, Joseph W., Cambridge, Mass., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Communication system. 1,780,921; Nov. 11.

Horwitt, Paul H., Hartsdale, N. Y. Automobile. Des. 82,503; Nov. 11.

Horwitt, Paul H., Hartsdale, N. Y. Automobile. Des. 82,504; Nov. 11.

Hostutler, Verne, Hollis, Okla. Side bumper for automobiles. 1,780,974; Nov. 11.

Houde Engineering Corporation. (See Peo, Ralph F., assignor.)

Houston, John D., Prineville, Oreg. Thermal plant. 1,781,062; Nov. 11.

Howe, Frank D., Cuyahoga Falls, Ohio. Axle construction. 1,780,922; Nov. 11.

Howe, Harrison M., Bradford, Pa. Pinch bar. 1,781,329; Nov. 11.

Huber, Frederick W., Riverside, Calif. Making Portland cement. 1,781,232; Nov. 11.

Huenemann, Victor C., Garner, Iowa. Adjustable disappearing-lug traction wheel. 1,781,461; Nov. 11.

Hug, Christian J., Highland, Ill. Wheel. 1,780,923; Nov. 11.

Hulett, Ralph M., Cleveland, Ohio. Mail chute. 1,781,282; Nov. 11.

Hulslander, Ray D., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Apparatus for removing articles from molds. 1,781,665; Nov. 11.

Hultgren, Axel G. E., Soderfors, Sweden. Mold for casting ingots of steel or other metals. 1,781,392; Nov. 11.

Humphrey, Alfred H., Salem, N. Y. License-plate holder. 1,781,642; Nov. 11.

Hunt, Leigh. (See Sturgis, Herbert M., assignor.)

Hunt, Sydney, Birmingham, England, assignor to John Walker & Sons Limited, London, England. Manufacture of blown-glass articles. 1,781,233; Nov. 11.

Hupp Motor Car Company. (See MacPherson, Earle S., assignor.)

Hupp Motor Car Corporation. (See MacPherson, Earle S., assignor.)

Hurlbert, William G., jr., and E. E. Marshman, Warren, Ohio. Expanded-metal lath. 1,781,012; Nov. 11.

Hutchens, Ralph W., and A. R. Krause, assignors to Gillette Rubber Co., Eau Claire, Wis. Upright inner tube mold. 1,781,393; Nov. 11.

Hutchins Car Roofing Company. (See Thompson, William D., assignor.)

Hygienol Co. Inc., The. (See Raynor, Louis L., assignor.)

Hyman, Daniel N., Detroit, Mich., assignor to Hyman Register Corporation, Buffalo, N. Y. Fare register. 1,781,462; Nov. 11.

Hyman Register Corporation. (See Hyman, Daniel N., assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Jordan, Otto, assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Lützow, Artur, assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Schmidt, Albrecht, assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Wahl, H., and Fischer, assignor.)

Ideal Lubricator Company. (See Culp, John F., assignor.)

Imperial Chemical Industries Limited. (See Gibson, W., and Henshaw, assignors.)

Independent Oil Well Cementing Co. (See Trouth, John E., assignor.)

Independent Pneumatic Tool Company. (See Norling, Reinhold A., assignor.)

Ingersoll-Rand Company. (See Lear, Earl B., assignor.)

Ingersoll-Rand Company. (See Redfield, Snowden B., assignor.)

Ingraham, Harry A., Zillah, Wash. Fruit-cleaning machine. 1,780,924; Nov. 11.

Intemann, William, Brooklyn, assignor to American Lithographic Company, Inc., New York, N. Y. Advertising sign. 1,781,283; Nov. 11.

International Combustion Engineering Corporation. (See Clendon, George W., assignor.)

International Combustion Engineering Corporation. (See Coerper, Hans, assignor.)

International Combustion Engineering Corporation. (See Rydmark, Josef, assignor.)

International Combustion Engineering Corporation. (See Wood, Wilfred R., assignor.)

Inventia Patent-Verwertungs-Gesellschaft. (See Engberg, A. O., and Eriksson-Jons, assignors.)

Iorio, Candido and F., Jamaica, N. Y. Accordion. 1,781,394; Nov. 11.

Iorio, Frank. (See Iorio, Candido and F.)

Irwin, George T., Toronto, Ontario, Canada. Locking device. 1,781,643; Nov. 11.

Isom, Edward W. (See Herthel, E. C., and Isom.)

Israelson, Fritz, Stockholm, Sweden. Straight-frame knitting machine. 1,780,975; Nov. 11.

Jacklin, Harold M., and C. P. Roberts; said Roberts assignor to said Jacklin, Columbus, Ohio. Method and apparatus for obtaining indicator diagrams. 1,781,013; Nov. 11.

Jacobson, Conrad C. (See Dollin, E. N., and Jacobson.)

Jacobson, Hugo W., Arlington, assignor to Gould & Eberhardt, Newark, N. J. Lubrication system for shaping machines. 1,781,110; Nov. 11.

Jarecki, Frank J., Grand Rapids, Mich. Sheet-metal folder. 1,781,180; Nov. 11.

Jeffrey, Harold M., Methuen, assignor to Patent Protection Corporation, Lowell, Mass. Transfer mechanism for looms. 1,781,514; Nov. 11.

Jenkinson, Ross E., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Pneumatic tire. 1,781,657; Nov. 11.

Jessen, Hans P., Omaha, Nebr. Adjustable shore. 1,781,003; Nov. 11.

Johns, George H., assignor of one-half to S. Mustakos, New Haven, Conn. Game or toy. 1,781,463; Nov. 11.

Johnson, Fritz, Racine, Wis., assignor, by mesne assignments, to Stephenson Underwear Mills, South Bend, Ind. Printing machine. 1,781,395; Nov. 11.

Johnson, Halligan, San Diego, Calif. Amusement ride apparatus. 1,781,464; Nov. 11.

Johnson, Kenneth S., Jersey City, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Electrical network. 1,781,396; Nov. 11.

Johnson, Oliver, Hollywood, Calif., and R. G. Sanders, Spokane, Wash. Control mechanism for concrete-mixing apparatus. 1,781,549; Nov. 11.

Johnson, Peter B., Fremont, Nebr. Stacker. 1,780,925; Nov. 11.

Johnson, Roy W., Columbus, Ohio, assignor to The Checker Cab Manufacturing Company, Kalamazoo, Mich. Motor vehicle head-lamp. Des. 82,535; Nov. 11.

Jonas, Julius, assignor to Aktiengesellschaft Brown, Boveri and Cie., Baden, Switzerland. Ignition device for mercury-arc rectifiers. 1,781,330; Nov. 11.

Jones, Charles E., Griffin, Ga. Construction unit. 1,781,234; Nov. 11.

Jones, Edwin W. (See Hall-Brown, A., and Jones.)

Jones, Homer W., Newark, N. J., assignor to National Carbon Company, Inc. Adjustable lamp socket. 1,781,064; Nov. 11.

Jonsson, Anders J., Linköping, Sweden. Machine for making caps. 1,780,926; Nov. 11.

Jordan, Otto, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Liquid of low-freezing point for cooling and for sealing vessels and the like. 1,780,927; Nov. 11.

Kahn, Isaac T., Cleveland, Ohio. Building construction. 1,780,928; Nov. 11.

Kahn, Isaac T., assignor to The Consolidated Iron-Steel Manufacturing Company, Cleveland, Ohio. Faucet-supporting plug. 1,780,929; Nov. 11.

Kalbfleisch Corporation, The. (See Larson, Leon H., assignor.)

Kari, Heinrich, Jersey City, N. J. Automatically signaling and controlling trains according to the position of track switches. 1,781,284; Nov. 11.

Karmazin, John, Detroit, Mich. Brine-tank evaporation unit. 1,780,930; Nov. 11.

Kaufmann, Wilhelm. (See Liechty, Hermann, assignor.)

Keevers, Matthew J., Northampton, Mass. Buckle support. 1,781,014; Nov. 11.

Kelpp, Anton, Mansfield, Ohio. Revolving table. 1,781,015; Nov. 11.

Keller, Parry, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Mold. 1,781,658; Nov. 11.

Keller, Wm. H., Inc. (See Shaff, Ernest H., assignor.)

Kellogg Switchboard and Supply Company. (See Grout, Martin B., assignor.)

Kelly, Loomis L., Salem, Va. Material-handling apparatus. 1,781,644; Nov. 11.

Kelvinator Corporation. (See Replogle, John R., assignor.)

Keplinger, Charles W., receiver. (See Lewis, Joseph C., assignor.)

Kesner, Herman. (See Kushlin, W., Kesner, and Oltsik.)

Kessel, Johannes B., Chicago, Ill. Mixing device for carburetors. Re17,869; Nov. 11.

Keyser, Johann J., Aarau, Switzerland. Spinning and twisting machine. 1,781,584; Nov. 11.

Keystone Refrigerating Corporation. (See Nielsen, Holger, assignor.)

Kidde, Walter & Company. (See Mapes, Daniel, assignor.)

Kiefer, William F., Evansville, Ind., assignor of one-half to M. L. Reichert, Vanderburgh county, Ind. Illuminated number sign. 1,781,585; Nov. 11.

Kielberg, Henry, Martins Ferry, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va. Roofing roll. 1,781,016; Nov. 11.

Kimmich, Elmer G. (See Burkley, C. J., and Kimmich.)

King, C. G., & Co. (See Recchia, Orlando R., assignor.)

King, C. G., & Co. (See Smith, Walter E., assignor.)

King, Douglas H., Irvington, and H. T. Martin, Ridgewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wall mounting for a hand telephone. Des. 82,505; Nov. 11.

King, Thomas J., jr., Chicago, Ill. Wire-tying machine. 1,781,181; Nov. 11.

Kirschbraun, Lester, Leonia, N. J. Making emulsified compositions. 1,781,645; Nov. 11.

Kiwad, Michael, New York, N. Y., assignor to La Belle Specialty Co. Inc. Lamp or article of analogous nature. Des. 82,506; Nov. 11.

Klaucke, George W., assignor to Hobbs Manufacturing Company, Worcester, Mass. Corn-cutting machine. 1,781,111; Nov. 11.

Klemgard, Edwin N. (See Doell, T. W., and Klemgard.)

Klocke, William, Woodhaven, assignor to E. W. Bliss Company, Brooklyn, N. Y. Power press. 1,781,397; Nov. 11.

Knox, Harry G., assignor to R. Hoe & Co., Inc., New York, N. Y. Printing machine. 1,781,017; Nov. 11.

Kobel, Ernest. (See Kubler, J., and Kobel.)

Koch, Theodoor, Arnhem, Netherlands. Preparing artificial textile products with reduced luster from viscose. 1,781,018; Nov. 11.

Koehring Company. (See Lichtenberg, Erich H., assignor.)

Koehring Company. (See Plispanen, Väinö, assignor.)

Koepsell, August J., Mayville, Wis. Grate. 1,781,331; Nov. 11.

Königsberger. Walter, Berlin, Germany. Garter. 1,780,931; Nov. 11.

Koppers Company, The. (See Puening, Franz, assignor.)

Kraft, Herman T., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tread applier. 1,781,285; Nov. 11.

Kränzlein, Georg, and F. Roemer, Frankfort-on-the-Main-Hochst, and E. Kronholz, Bad Soden-on-the-Taunus, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Acid wood dyestuff of the anthraquinone series. 1,780,976; Nov. 11.

Krause, Arnold R. (See Hutchens, R. W., and Krause.)

Krause, Arnold R., Eau Claire, Wis., assignor to Gillette Rubber Company. Bicycle-tire trimmer. 1,781,398; Nov. 11.

Kreger, Norman V., Ben Avon, Pa. Rear-curtain-operating device. 1,781,646; Nov. 11.

Kreps, Elmer H. (See Allen, G. N., and Kreps.)

Kronholz, Erich. (See Kränzlein, G., Roemer, and Kronholz.)

Kubler, Johannes, Baden, and E. Kobel, Ennetbaden, Switzerland. Mercury-vapor rectifier. 1,781,286; Nov. 11.

Kurth, Matthew G., assignor to Master Machinery and Implement Company, Madison, Wis. Hay loader. 1,781,332; Nov. 11.

Kushlin, William, H. Kesner, Brooklyn, and I. Oltsik, New York, N. Y. Pillow. Des. 82,507; Nov. 11.

Kwartin, Bernard, Philadelphia, Pa. Method of and apparatus for recording and reproducing sounds. 1,781,550; Nov. 11.

La Belle Specialty Co. (See Kiwad, Michael, assignor.)

La Brie, Ludger E., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Braking system. 1,781,112; Nov. 11.

Laing, Edward M., Highland Park, Ill. Golf-ball washer. 1,781,113; Nov. 11.

Lamson Company, The. (See Cowley, J. T., and Taylor, assignors.)

Land, Charles H., Detroit, Mich. Tractor trailer. 1,781,399; Nov. 11.

Lane, Alfred M., St. Louis, Mo. Metal weather strip. 1,781,400; Nov. 11.

Lane, Alfred M., St. Louis, Mo. Screened window. 1,781,401; Nov. 11.

La Pointe, Francis J., Ann Arbor, Mich. Hydraulic broaching machine. 1,781,114; Nov. 11.

Lapsley, Robert. (See Blood, H. E., and Lapsley.)

Larson, Leon H., Kalamazoo, Mich., assignor to The Kalbfleisch Corporation, New York, N. Y. Cold-water paint and making same. 1,781,019; Nov. 11.

Larsson, Carl H., Chicago, Ill. Valve tone throat. 1,781,402; Nov. 11.

Laudicina, Giuseppe, East New Haven, Conn. Cast-stone trim block. 1,781,586; Nov. 11.

Leader Iron Works, Inc. (See Summers, Louis D., assignor.)

Leahy, Maurice R., Kansas City, Mo., and M. J. Phelan, Kansas City, Kans. Street sign. 1,781,020; Nov. 11.

Lear, Earl B., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve for rock drills. 1,781,021; Nov. 11.

Lederer, Sigmund L., Providence, R. I., assignor to Providence Stock Company. Bracelet chain. Des 82,508; Nov. 11.

Lehmann, Ernst P., and K. Ruppin, Bradenburg-on-the-Havel, Germany, assignors to said Lehmann. Toy. 1,781,333; Nov. 11.

Leopold, Joseph, New York, N. Y. Safety aeroplane. 1,781,182; Nov. 11.

Leslie, Eugene H., and E. M. Baker, Ann Arbor, Mich. Process of and apparatus for steam distillation. 1,780,977; Nov. 11.

Levy, Abraham, Brooklyn, N. Y. Clock case or similar article. Des. 82,509; Nov. 11.

Levy, Edward J. (now by judicial change of name Edward L. Mayo), assignor to The Bishop & Babcock Manufacturing Company, Cleveland, Ohio. Thermostat. 1,781,287; Nov. 11.

Levy, Edward J. (now by judicial change of name Edward L. Mayo), assignor to the Bishop & Babcock Manufacturing Company, Cleveland, Ohio. Thermostatic switch. 1,781,288; Nov. 11.

Levy, Edward J. (now by judicial change of name Edward L. Mayo), assignor to the Bishop & Babcock Manufacturing Company, Cleveland, Ohio. Thermostatically-operated electrical switch. 1,781,289; Nov. 11.

Levy, Harold, New York, N. Y. Note holder and dispenser. 1,781,022; Oct. 11.

Levy, Harold, Chicago, Ill. Note holding and dispensing device. 1,781,023; Nov. 11.

Lewis, Carroll E., St. Paul, assignor to The Lewis Corporation, Inc., Minneapolis, Minn. Humidifier and heater. 1,781,515; Nov. 11.

Lewis, Chester L., and H. O. Setterberg, Portland, Oreg. Sealing piston ring. 1,781,183; Nov. 11.

Lewis Corporation, The. (See Lewis, Carroll E., assignor.)

Lewis, Herman P., Tarentum, and E. S. Peters, New Sheffield, Pa. Rotary pump. 1,781,065; Nov. 11.

Lewis, Joseph C., Minerva, assignor to C. W. Keplinger, Canton, receiver of the American Electric Switch Corporation, Minerva, Ohio. Latch for service boxes. 1,781,115; Nov. 11.

Libbey-Owens-Ford Glass Company. (See Ferngren, Enoch T., assignor.)

Lichtenberg, Erich H., assignor to Koehring Company, Milwaukee, Wis. Control mechanism for concrete mixers. 1,780,932. Nov. 11.

Lidiak, Joseph P., Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condenser. 1,781,024; Nov. 11.

Liebermann, Paul B., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Journal box. 1,781,235; Nov. 11.

Liechty, Hermann, assignor to W. Kaufmann, Bern, Switzerland. Track vehicle. 1,781,334; Nov. 11.

Lilge, Friedrich, Oberhausen, Germany. Whirl burner. 1,781,236; Nov. 11.

Lindenberg, Theodore, Columbus, Ohio. Sound amplifier. 1,781,465; Nov. 11.

Line-O-Graph Company. (See Page, Marshall H., assignor.)

Link, Richard A., and C. F. Harders, assignors to L. A. Young Company, Detroit, Mich. Shaft for golf clubs and the like. 1,781,116; Nov. 11.

Lionel Corporation, The. (See Caruso, Louis, assignor.)

Lockwood's Clean Coal Process Limited. (See Berrisford, William H., assignor.)

Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Ensemble dress. Des. 82,510; Nov. 11.

Long Manufacturing Company. (See Hawkins, Raymond L., assignor.)

Los Angeles Wall Bed Company. (See Cocks, Edgar, assignor.)

Loughlin, William D. (See Snow, H. A., and Loughlin.)

Lowenthal, Arthur M., Rochester, N. Y., assignor to Max Lowenthal & Sons. Knitted sweater. 1,781,647; Nov. 11.

Lowenthal, Max, & Sons. (See Lowenthal, Arthur M., assignor.)

Lucier, Theophelles D. (See Broderick, E. N., and Lucier.)

Luth & Rösene Elektriska Aktiebolag. (See Uggla, Wilhelm R., assignor.)

Lützow, Artur, Cologne-Mulheim, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Securing of welds on bended bodies. 1,780,978; Nov. 11.

Lyman, Ray J., Berkeley, assignor to Great Western Meter Company, Oakland, Calif. Fluid meter. 1,781,466; Nov. 11.

Lyons, Charles T., Medina, Wash., assignor to Durable Mat Company, Seattle, Wash. Ship's fender. 1,781,403; Nov. 11.

Lyons, John E., Texhoma, Okla. Pipe grab. 1,781,335; Nov. 11.

Mack, Sebastian, Minneapolis, Minn. Signal for automobiles. 1,781,184; Nov. 11.

Mackie, James E., and A. J. Smith, Long Beach, Calif. Floor sleeper. 1,781,117; Nov. 11.

MacMichael, Hugh R., El Paso, Tex., assignor to American Smelting and Refining Company, New York, N. Y. Operating mechanism for Scotch hearths. 1,781,025; Nov. 11.

MacPherson, Earle S., assignor to Hupp Motor Car Corporation. Detroit, Mich. Crank-case ventilator. 1,781,405; Nov. 11.

MacPherson, Earle S., assignor to Hupp Motor Car Company, Detroit, Mich. Axle mounting. 1,781,406; Nov. 11.

Madsen, Sern, assignor to Curtis Companies, Incorporated, Clinton, Iowa. Bearing mounting. 1,781,467; Nov. 11.

Madsen, Sern, assignor to Curtis Companies, Incorporated, Clinton, Iowa. Sash lock for casement sash. 1,781,468; Nov. 11.

Magney, Gottlieb R. (See Foshay, W. B., and Magney.)

Malkin, John E., New York, N. Y. Sparkler toy. 1,781,516; Nov. 11.

Malt-O-Matic Corporation. (See Scholl, Willard J., assignor.)

Manchester, Thomas H. (See Gold, E. H., Manchester, and Russell.)

Mandelbaum, Maurice H. (See Brown, Herbert E., assignor.)

Mangel, Wallie C., Fairfax, Minn. Check hinge. 1,781,185; Nov. 11.

Mangham, Leonard, assignor to Mangham's Automatic Needle Changer Limited, Wellington, New Zealand. Changing the needles of gramophones and like machines. 1,781,587; Nov. 11.

Mangham's Automatic Needle Changer Limited. (See Mangham, Leonard, assignor.)

Manning & Co. (See Van Ranst, Cornelius W., assignor.)

Mapes, Daniel, Mamaroneck, assignor to Walter Kidde & Company, Inc., New York, N. Y. Fire-extinguishing system. 1,781,026; Nov. 11.

Mapes, Daniel, Mamaroneck, assignor to Walter Kidde & Company, Inc., New York. Release device for fluids under pressure. 1,781,027; Nov. 11.

Mapes, Daniel, Mamaroneck, assignor to Walter Kidde & Company, Inc., New York, N. Y. Nonclogging nozzle for fire-extinguishing systems. 1,781,028; Nov. 11.

Mapother, Henry, H., jr., Louisville, Ky., assignor to Vacuum Process Corporation. Making paints. 1,781,648; Nov. 11.

Marcellus, Fredrick S., Scotia, N. Y., assignor to General Electric Company. Demand meter. 1,781,588; Nov. 11.

Marcellus, Myron, Liberal, Kans. Internal-combustion engine. 1,781,589; Nov. 11.

Marcus, Samuel L., Chicago, Ill. Shoe construction. 1,781,118; Nov. 11.

Margrave, Charles B., Los Angeles, Calif. Golf-club grip. 1,781,290; Nov. 11.

Marion Steam Shovel Company, (1927), The. (See Ferguson, Berlin S., assignor.)

Markel Electric Products, Inc. (See Ellinger, Albert E., assignor.)

Marshall, Leslie H., assignor of one-half to A. A. Grubb, Columbus, Ohio. Producing malleable-iron castings. 1,781,119; Nov. 11.

Marshall, Luther A., Floydada, Tex. Egg hatcher. 1,781,336; Nov. 11.

Marshman, Elmer E. (See Hurlbert, W. G., jr., and Marshman.)

Martin, Frederick W., Brooklyn, N. Y., assignor to Franklin Railway Supply Company. Driving-box lubricator. 1,781,337; Nov. 11.

Martin, Harold T. (See King, D. H., and Martin.)

Martin, Wallace. (See Martin, William C. and W. W.)

Martin, William C., Boston, and W. Martin, Watertown, Mass. Sanding device for motor vehicles. 1,781,120; Nov. 11.

Martois, Arthur E., Compton, and W. E. Martois, Gardena, Calif. Straight-line pumping operating mechanism. 1,780,933; Nov. 11.

Martois, Waldo E. (See Martois, Arthur E. and W. E.)

Maschinenfabrik Augsburg-Nurnberg A. G. (See Riehm, Wilhelm, assignor.)

Mason, Warren P., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated. Wave filter. 1,781,469; Nov. 11.

Master Machinery and Implement Company. (See Kurth, Matthew G., assignor.)

Mataya, William, Seattle, Wash. Commutator accessory. 1,781,551; Nov. 11.

Mathews Conveyer Company. (See Anderson, Martin J., assignor.)

Mathews, Louis T., Houston, Tex. Copyholder attachment for typewriters. 1,781,552; Nov. 11.

Maurus, Harry, assignor to Duplan Silk Corporation, New York, N. Y. Textile fabric. Des. 82,511; Nov. 11.

Maxwell, Francis, Wallington, England. Cane-crushing apparatus. 1,781,186; Nov. 11.

Mayman, Edwin, San Diego, Calif. Automatic control for airplane flotation apparatus. 1,781,291; Nov. 11.

Mayo, Edward L. (See Levy, Edward J.)

McAuliffe, John E. (See Palmer, F., and McAuliffe.)

McCaleb, Albert G. (See Allen, Hugh E., assignor.)

McCargar, Joseph R., Grand Rapids, Mich. Desk. Des. 82,534; Nov. 11.

McClees, John S., Baltimore, Md. Smoker's article. 1,781,553; Nov. 11.

McCoy, Margaret E., Duluth, Minn. Combination garment. 1,781,590; Nov. 11.

McCoy, Robert R., Cumberland, Md., assignor to White and Haines Optical Co., Columbus, Ohio. Ophthalmic mounting. Des. 82,512; Nov. 11.

McCracken, James A., Los Angeles, Calif. Hand foamite fire extinguisher. 1,781,292; Nov. 11.

McCracken, James A., Los Angeles, Calif. Portable foam-producing apparatus. 1,781,293; Nov. 11.

McCracken, James A., Los Angeles, Calif. Method of and apparatus for production of foam solutions. 1,781,294; Nov. 11.

McCracken, James A., Los Angeles, Calif. Continuous production of fire foam. 1,781,295; Nov. 11.

McElroy, Roy H., and P. A. Meehan, assignors to Carol Engineering, Inc., Dayton, Ohio. Muller pan. Des. 82,513; Nov. 11.

McFarland, Ernest H., assignor of one-third to J. A. Hodges, Louisburg, N. C., one-sixth to F. M. Hodges, Richmond, Va., and one-sixth to J. M. Hodges, Fayetteville, N. C. Air tester. 1,781,121; Nov. 11.

McGee, Eugene H., Chicago, Ill., assignor, by mesne assignments, to Signode Steel Strapping Company. Seal. 1,781,029; Nov. 11.

McGrew, John A., Albany, N. Y. Tie plate and key. 1,781,122; Nov. 11.

McIntyre, Charles S. (See Smith, E. D., and McIntyre.)

McIntyre, William O., Charlotte, N. C. Safety catch. 1,781,591; Nov. 11.

McKeown, John L., Chicago, Ill. Expansion bearing. 1,781,517; Nov. 11.

McLean, Allan H. (See Gilligan, E. J., and McLean.)

McMath, John E. (See Townsend, Frank B., assignor.)

McNab, Alexander, Bridgeport, Conn. Pump. 1,781,404; Nov. 11.

Meehan, Paul A. (See McElroy, R. H., and Meehan.)

Meier, Albert H., Evansville, Ind. Pipe vise and bender. 1,781,592; Nov. 11.

Mellis, John P. (See Wood, Joseph E., assignor.)

Menzak, John, Manville, N. J. Safety razor. 1,780,934; Nov. 11.

Merkle, Mollie K., Paris, Ill. Mop. 1,781,237; Nov. 11.

Metropolitan Engineering Company. (See Hoffer, Le Roy H., assignor.)

Metropolitan Lamp Co. (See Collins, Frank, assignor.)

Meunier, Paul. (See Stapelle, Joseph, assignor.)

Meunier, Paul, Fleurus, Belgium. Carburetor. 1,781,066; Nov. 11.

Meyers, John D. (See Glanschnig, Ignatz, assignor.)

Michell, Joseph, Berwind, Colo. Goggles. 1,781,067; Nov. 11.

Michell, Anthony G. M., Melbourne, Victoria, Australia, assignor, by mesne assignments, to Michell-Crankless Engines Corporation, New York, N. Y. Fluid motor and pump. 1,781,068; Nov. 11.

Michell, Anthony G. M., Melbourne, Victoria, Australia, and J. P. Postlethwaite and T. Smith, London, England, assignors, by mesne assignments, to Michell-Crankless Engines Corporation, New York, N. Y. Mechanism for the interconversion of reciprocating and rotary motions. 1,781,069; Nov. 11.

Michell-Crankless Engines Corporation. (See Michell, Anthony G. M., assignor.)

Michell-Crankless Engines Corporation. (See Michell, A. G. M., Postlethwaite, and Smith, assignors.)

Mieg, Walter, Opladen, Germany, assignor to General Aniline Works, Inc., New York, N. Y. New valuable vat dyestuffs of the anthraquinone series. 1,781,238; Nov. 11.

Mihalyi, Frank, St. Louis, Mo., assignor to The David White Company, Milwaukee, Wis. Transit level. 1,781,666; Nov. 11.

Mihalyi, Frank, St. Louis, Mo., assignor to The David White Company, Milwaukee, Wis. Surveying instrument. 1,781,667; Nov. 11.

Milbomme, Alexander, Ridgefield Park, assignor to Progressive Silk Finishing Co., Hoboken, N. J. Treating textile fabrics. 1,781,296; Nov. 11.

Mishawaka Rubber & Woolen Manufacturing Company. (See Winterhalter, Martin, assignor.)

Mitchell, Harry V., Danville, Ill., assignor of one-half to R. C. Dennett, Freeport, N. Y. Index device. 1,781,070; Nov. 11.

Moen, George E., Kelso, Wash. Valve-reaming tool. 1,781,338; Nov. 11.

Mohun, John L., Omaha, Nebr. Steam engine. 1,781,407; Nov. 11.

Molins, Walter E., Deptford, London, England. Cigarette-making machinery. 1,781,239; Nov. 11.

Molins, Walter E., Deptford, London, England. Cigarette-making machinery. 1,781,240; Nov. 11.

Monarch Metal Weatherstrip Corporation. (See Goellner, John A., assignor.)

Monnot, John F., London, England. Alkaline storage battery. 1,780,935; Nov. 11.

Monroe Calculating Machine Company. (See Crosman, Loring P., assignor.)

Monsch, Robert, Union City, N. J. Sandal. Des. 82,514; Nov. 11.

Montapert, Alfred A., Los Angeles, Calif. Safety fuse and circuit tester. 1,781,593; Nov. 11.

Morley, Earl M. (See Neilson, James R., assignor.)

Morris, Edmund, and A. Vanderveld, assignors to Grand Rapids Store Equipment Corporation, Grand Rapids, Mich. Counter-partition support. 1,781,408; Nov. 11.

Morrow, Isaac E., Dallas, Tex. Door-operating device. 1,781,594; Nov. 11.

Mossbach, Henry, Seattle, Wash. Gauge for gasoline tanks, etc. 1,781,030; Nov. 11.

Motorheator Company. (See Slichter, Charles S., assignor.)

Moyer, James H., assignor to The Columbus Dental Manufacturing Company, Columbus, Ohio. Artificial porcelain root tooth. 1,780,979; Nov. 11.

Moyle, Edward H., Los Angeles, Calif. Typewriter. 1,781,671; Nov. 11.

Mueller, Emil, Cranston, R. I. Screw driver. 1,781,470; Nov. 11.

Mullican, Francis M., Butte, Mont. Figure wheeled toy. 1,781,471; Nov. 11.

Munn, Andrew A., Rapid City, S. Dak. Automatic grapple. 1,781,518; Nov. 11.

Mustakos, Steve. (See Johns, George H., assignor.)

Mutti, Louis, Paris, France. Powder-supplying device with adjustable feed. 1,781,595; Nov. 11.

Mutual Metal Manufacturing Company. (See Goodfriend, Henry, assignor.)

Nagle, Oscar N., Turpin, Okla. Grain separator. 1,781,472; Nov. 11.

National Aniline & Chemical Co. (See Heritage, Clark C., assignor.)

National Automatic Tool Company, The. (See Herzberg, A. A. and Schultz, assignors.)

National Brake & Electric Company. (See Aikman, Burton S., assignor.)

National Carbon Company. (See Jones, Homer W., assignor.)

National Dehydrator Corporation. (See Palmer, William L., assignor.)

National Electric Products Corporation. (See Frederickson, Otto A., assignor.)

National Lock Washer Company. (See Golden, Robert F., assignor.)

National Marking Machine Company, The. (See Constable, Charles E., assignor.)

National Supply Company, The. (See Wilson, John M., assignor.)

Naugle, Harry M., and A. J. Townsend, Canton, assignors, by mesne assignments, to The American Rolling Mill Company, Middletown, Ohio. Cold rolling and coiling strips. 1,781,123; Nov. 11.

Negley, Charles E., Los Angeles, Calif. Valve lifter. 1,781,187; Nov. 11.

Neidhammer, Clyde, Lemoyne, assignor of one-half to D. A. Grissinger, Lemoyne, Pa. Suspending hook. 1,781,072; Nov. 11.

Neilson, James R., Toledo, Ohio, assignor of one-half to E. M. Morley, Delta, Ohio. Treating-material dispersion. 1,781,188; Nov. 11.

Nein, Harry R., Westfield, N. J., assignor to American Telephone and Telegraph Company. Concentric conducting system. 1,781,124; Nov. 11.

Ness, Harold J., and C. H. Roth, Jersey City, N. J., assignors to The New Departure Manufacturing Company, Bristol, Conn. Making roller-bearing cages. 1,781,241; Nov. 11.

Nessell, Clarence W., Forest Park, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Signaling system. 1,781,519; Nov. 11.

Nessell, Clarence W., Forest Park, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Signaling system. 1,781,520; Nov. 11.

New Departure Manufacturing Company, The. (See Delaval-Crow, Thomas C., assignor.)

New Departure Manufacturing Company, The. (See Ness, H. J., and Roth, assignors.)

Newman, Edwin P. S., Washington, D. C. Ice grid. 1,780,980; Nov. 11.

Newspaper Stuffing Machine Company, The. (See Halvorsen, Severin, assignor.)

Niebel, Gottfried, New York, N. Y. Electric bulb or similar article. Des. 82,515; Nov. 11.

Nielsen, Holger, assignor to Keystone Refrigerating Corporation, Beaver Falls, Pa. Rotary compressor. 1,781,073; Nov. 11.

Nilson, John L., and J. F. Prince, Chicago, Ill. Motor for operating windshield cleaners. 1,781,189; Nov. 11.

Nilson, John L., and J. F. Prince, Chicago, Ill. Windshield-cleaner motor. 1,781,190; Nov. 11.

Nordberg Manufacturing Company. (See Talboys, Henry H., assignor.)

Norddeutsche Affinerie. (See Roscher, Heinrich, assignor.)

Norge Corporation. (See Blood, Howard E., assignor.)

Norling, Reinhold A., Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Clutch mechanism for power hoists. 1,781,125; Nov. 11.

North East Appliance Corporation. (See Dorsey, F. F., and Crumrine, assignors.)

Norton, Arthur G., Holley, assignor to Alert Products, Inc., Rochester, N. Y. Lubricator. 1,781,554; Nov. 11.

Norton, Raymond J., Washington, D. C., assignor to Bendix Brake Company, Chicago, Ill. Brake member. 1,781,074; Nov. 11.

Norviel, Harry E., Anderson, Ind., assignor, by mesne assignments, to A C Spark Plug Company, Flint, Mich. Illuminated instrument panel. 1,781,242; Nov. 11.

Norway, Nevil S. (See Burney, C. D., Wallis, Norway, and Temple.)

Nurnberg, Alice M., Port Townsend, Wash. Cigarette holder. 1,780,936; Nov. 11.

Oakley, Laurence M., Trenton, N. J. Shoe sole. Des. 82,516; Nov. 11.

Oakley, Laurence M., Trenton, N. J. Shoe heel. Des. 82,517; Nov. 11.

O'Bryan, Leslie L. (See Teleki, Benjamin, assignor.)

Ohm, Albert J. D., Oak Park, assignor to Beardslee Chandelier Manufacturing Company, Chicago, Ill. Lighting fixture. Des. 82,518; Nov. 11.

Ohm, Albert J. D., Oak Park, assignor to Beardslee Chandelier Manufacturing Company, Chicago, Ill. Lighting fixture. Des. 82,519; Nov. 11.

Oliver, William H., Abilene, and O. L. Peters and A. A. Struckhoff, Grinnell, Kans. Hamburger-cake-pressing machine. 1,781,330; Nov. 11.

Oltsik, Irving. (See Kushlin, Kesner, and Oltsik.)

Oneida Community, Limited. (See Allen, G. N., and Kreps, assignors.)

O'Neill, Henry W., Elmhurst, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Testing system. 1,780,937; Nov. 11.

Oreggia, Vittorio, San Remo, Italy. Closure for boxes and cases. 1,781,243; Nov. 11.

Osborn Manufacturing Company, The. (See Oyster, E. F., and Gilliland, assignors.)

Oswald, Clyde D., San Bernardino, Calif. Hair-curling machine. 1,781,244; Nov. 11.

Outcelt, Henry J., Warsaw, Ind. Butter-cutting machine. 1,781,075; Nov. 11.

Owen, Brynar J., Oxford, assignor to Sugar Beet and Crop Driers Limited, London, England. Dehydrating vegetable substances and products of organic character. 1,781,473; Nov. 11.

Oyster, Earl F., Cleveland Heights, and F. N. Gilliland, Shaker Heights, assignors to The Osborn Manufacturing Company, Cleveland, Ohio. Mechanism for making molds. 1,781,126; Nov. 11.

P & M Company, The. (See Preston, Frederick A., assignor.)

Packard Motor Car Company. (See Elliott, Harry C., assignor.)

Packer Manufacturing Co., The. (See Allen, A. S., and Ruzicka, assignors.)

Page, Marshall H., New York, N. Y., assignor to Line-O-Graph Company, Kansas City, Mo. Advertising device. 1,781,596; Nov. 11.

Palmer, Frederick, and J. E. McAuliffe, assignors to Triangle Conduit Company, Inc., Brooklyn, N. Y. Electrical conductor and making the same. 1,781,521; Nov. 11.

Palmer, William L., Long Beach, Calif., assignor, by mesne assignments, to National Dehydrator Corporation. Dehydrating oil. 1,781,076; Nov. 11.

Parrish, Mary B., Philadelphia, Pa. Dye preparation. 1,780,981; Nov. 11.

Pascoe, William H. (See Tatter, J., and Pascoe.)

Passis, Joseph, Chicago, Ill. Chair. 1,780,938; Nov. 11.

Patent Protection Corporation. (See Jeffrey, Harold M., assignor.)

Paton, Robert J., London, England. Direction and movement indicator for use on vehicles. 1,781,522; Nov. 11.

Patz, Alexander, Budapest, Hungary. Switch-operating mechanism for electric railways. 1,780,939; Nov. 11.

Peabody, E. Louise, executrix. (See Peabody, J. C., and Brown.)

Peabody, James C., deceased, Boston, and A. Brown, Everett, Mass.; said Brown and E. L. Peabody, executrix, assignors to F. B. Hopewell, Newton, Mass., as trustee. Fibrous sheet material and making same. 1,781,668; Nov. 11.

Pearson, Lawrence J. (See Holland, W. E., and Pearson.)

Pearson, Lawrence J., Wyncote, assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Battery tester. 1,781,597; Nov. 11.

Peck, Lawrence W., Chicago, Ill. Chamber-flushing device. 1,781,523; Nov. 11.

Peckinpaugh, Ernest H., Chattanooga, Tenn. Fish lure. 1,781,598; Nov. 11.

Pegram, James B., Bridgeton, N. J. Alarm. 1,781,245; Nov. 11.

Peiler, Karl E., West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn. Feeding molten glass. 1,781,340; Nov. 11.

Pennsylvania Textile Mills, Inc. (See Biva, Lucian, assignor.)

Peo, Ralph F., Kenmore, assignor to Houde Engineering Corporation, Buffalo, N. Y. Shock absorber. 1,781,127; Nov. 11.

Perebenda, Frank, Harrison, N. J. Clothespin. 1,781,031; Nov. 11.

Perlman, Abraham, New York, N. Y. Door operating and locking mechanism. 1,781,297; Nov. 11.

Perry, Marsden J., jr., Providence, R. I. Pitcher. Re17,863; Nov. 11.

Petch, Herbert S., London, and J. G. Wellings, Dunchurch, England, assignors to General Electric Company. Protective arrangement. 1,781,555; Nov. 11.

Peters, Emerson S. (See Lewis, H. P., and Peters.)

Peters, Otto L. (See Oliver, W. H., Peters, and Struckhoff.)

Petersen, John, Durant, Iowa. Battery lifter. 1,781,077; Nov. 11.

Petersen, Martin C., Ipswich, S. Dak. Cooking machine. 1,781,669; Nov. 11.

Phelan, Michael J. (See Leahy, M. R., and Phelan.)

Philadelphia Storage Battery Company. (See Holland, Walter E., assignor.)

Philadelphia Storage Battery Company. (See Holland, W. E., and Pearson, assignors.)

Philadelphia Storage Battery Company. (See Pearson, Lawrence J., assignor.)

Pickup, George E., assignor to The Wehrle Company, Newark, Ohio. Drawer construction for stoves and the like. 1,781,524; Nov. 11.

Pierson, Torvald N., assignor to The Gleaner Combine Harvester Corporation, Independence, Mo. Eccentric drive. 1,781,474; Nov. 11.

Pilspanen, Vaino, Helsinki, Finland, assignor to Koehring Company, Milwaukee, Wis. Concrete mixer. 1,780,940; Nov. 11.

Pilkington Brothers Limited. (See Griffin, James H., assignor.)

Pineo, John H., Brookline, Mass. Door fastener. 1,780,941; Nov. 11.

Place, Marguerite H., San Francisco, Calif. Fastening device. 1,781,078; Nov. 11.

Platt, Arthur I., incompetent, by B. R. Platt, conservatrix, Fairfield, Conn., assignor to The Bridgeport Hardware Manufacturing Corporation, Bridgeport, Conn. Ice pick. 1,781,475; Nov. 11.

Platt, Bessie R., conservatrix. (See Platt, Arthur I.)

Pollock, Robert T., New York, N. Y., assignor to Universal Oil Products Company, Chicago, Ill. Cracking petroleum oil. 1,781,128; Nov. 11.

Ponting, Herbert G. (See Ford, George W., assignor.)
Postlethwaite, Joseph P. (See Michell, A. G. M., Postlethwaite, and Smith.)
Power, Frank, Horton, Kans. Attachment for automobile radiators. 1,781,525; Nov. 11.
Prescott, William E. (See Savy, R., Baker, and Prescott.)
Preston, Frederick A., Lake Forest, assignor to The P & M Company, Chicago, Ill. Rail anchor. 1,781,191; Nov. 11.
Price, Thornton W., New Brunswick, N. J. Furnace-controlling device. 1,780,942; Nov. 11.
Prince, John F. (See Nilson, J. L., and Prince.)
Procunier, Harry G., assignor to Procunier Safety Chuck Company, Chicago, Ill. Tapping attachment. 1,781,192; Nov. 11.
Procunier Safety Chuck Company. (See Procunier, Harry G., assignor.)
Progressive Silk Finishing Co. (See Milhomme, Alexander, assignor.)
Providence Stock Company. (See Lederer, Sigmund L., assignor.)
Prutzman, Paul W., Los Angeles, Calif. Continuous foam-producing method and apparatus. 1,781,298; Nov. 11.
Prutzman, Paul W., Los Angeles, Calif. Continuous production of foam solutions. 1,781,299; Nov. 11.
Prutzman, Paul W., Los Angeles, Calif. Apparatus for fire-foam production. 1,781,300; Nov. 11.
Puening, Franz, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa. Heating coal or the like. 1,781,079; Nov. 11.
Quisling, Sverre, Madison, Wis. Portable sanitary drinking fountain. 1,781,599; Nov. 11.
Quisling, Sverre, Madison, Wis. Combined automobile headrest and strap hanger. 1,781,600; Nov. 11.
Radiant Lighting Fixture Co. (See Bohl, Hugo, assignor.)
Radio Corporation of America. (See Briggs, Loyd A., assignor.)
Radio Frequency Laboratories, Inc. (See Snow, H. A., and Loughlin, assignors.)
Rail Joint Company, The. (See Armstrong, Victor C., assignor.)
Rail Joint Company, The. (See Braine, Daniel L., assignor.)
Rail Joint Company, The. (See Clodfelter, George M., assignor.)
Ramsey, George. (See Chisholm, Charles F., assignor.)
Randall, John, Cleveland, Ohio. Apparatus for cleaning edible animal tissues. 1,781,301; Nov. 11.
Ratzan, Michael N. (See Cohan, W. M., and Ratzan.)
Raw, George. (See Welsh, A., and Raw.)
Rayfield, Charles L., assignor to Rayfield Manufacturing Company, Chicago, Ill. Coupling. 1,781,409; Nov. 11.
Rayfield Manufacturing Company. (See Reyfield, Charles L., assignor.)
Raynor, Louis L., New Rochelle, assignor to The Hygienol Co., Inc., New York, N. Y. Powder puff and making same. 1,781,140; Nov. 11.
Reagan, Cyril F., Altoona, Pa. Shock absorber. 1,781,341; Nov. 11.
Recchia, Orlando R., Cranston, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Shoe buckle. Des. 82,520; Nov. 11.
Redfield, Snowden B., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Connection for drill rods. 1,781,032; Nov. 11.
Reiber, George, Rochester, N. Y. Automatic pastry-baking machine. 1,781,411; Nov. 11.
Reichert, Manson L. (See Kiefer, William F., assignor.)
Reliable Knitting Company. (See Rosenberg, Armin, assignor.)
Rémondy, Léon E., Paris, France. Percussion fuse for artillery and aircraft projectiles. 1,781,556; Nov. 11.
Replogle, John R., assignor to Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 1,781,193; Nov. 11.
Republic Brass Company, The. (See Fischer, Arthur I., assignor.)
Reserve Holding Company. (See Nessell, Clarence W., assignor.)
Reukauf, Edward, jr., assignor to Carey-McFall Co., Philadelphia, Pa. Window shade. 1,781,557; Nov. 11.
Reynolds, Irving W., assignor to The Foxboro Company, Foxboro, Mass. Measuring instrument. 1,781,246; Nov. 11.
Reynolds, Morley P., Cleveland Heights, assignor to The W. S. Tyler Company, Cleveland, Ohio. Apparatus for screening materials. 1,781,526; Nov. 11.
Richter, George A., and M. O. Schur, assignors to Brown Company, Berlin, N. H. Fiber liberating and bleaching process. 1,780,943; Nov. 11.
Rickles, William H., Marshall, Tex. Toothbrush cabinet. 1,781,247; Nov. 11.
Riegel, Samuel S., Scranton, Pa. Piston valve and bushing construction. 1,781,342; Nov. 11.
Riehm, Wilhelm, assignor to Maschinenfabrik Augsburg-Nurnberg A. G., Augsberg, Germany. Two-cycle engine with slot scavenging and airless fuel injection. 1,781,194; Nov. 11.
Ring, Josef, Polerady, Czechoslovakia. Cable grip. 1,781,080; Nov. 11.
Roan, F. D., Machine Company. (See Roan, Floyd D., assignor.)
Roan, Floyd D., assignor to F. D. Roan Machine Company, Newlin, Tex. Cotton cleaner. 1,781,343; Nov. 11.
Roberts, Charles P. (See Jacklin, H. M., and Roberts.)
Roberts, Clarence P., Los Angeles, Calif. Ventilating baking pan. 1,781,302; Nov. 11.
Robertson, John, Co. (See Dollin, E. N., and Jacobson, assignors.)
Rockwell, Paul O., Edgewood Arsenal, Md. Process and apparatus for purifying air. 1,781,664; Nov. 11.
Roemer, Fritz. (See Kränzlein, G., Roemer, and Kronholz.)
Rohaut, Charles N., and E. G. Gearhart, Astoria, Oreg. Combination form holder and concrete anchor. 1,781,601; Nov. 11.
Rohlfs, Roland, Forest Hills, assignor to Aerial Advertising, Inc., New York, N. Y. Electrical aerial advertising sign. 1,781,081; Nov. 11.
Rohrbogenwerk Gesellschaft mit beschrankter Haftung. (See Böhling, Rudolf H., assignor.)
Ronk, George T., assignor to Speeder Machinery Corporation, Cedar Rapids, Iowa. Reversible cable drum. 1,781,195; Nov. 11.
Roscher, Heinrich, assignor to Norddeutsche Affinerie, Hamburg, Germany. Refining antimony by electrolysis of acid electrolytes. 1,780,944; Nov. 11.
Rosenberg, Armin, assignor to Reliable Knitting Company, Milwaukee, Wis. Knitted cap and making same. 1,781,196; Nov. 11.
Roth, Clarence H. (See Ness, H. J., and Roth.)
Roth, G. A., Manufacturing Company. (See Cleland, Melvin L., assignor.)
Rousseau, Lacasse, Montmagny, Quebec, Canada. Article-packing strip. 1,781,476; Nov. 11.
Royal Typewriter Company. (See Degener, Gustave O., assignor.)
Royal Typewriter Company. (See Handley, George F., assignor.)
Royston, Joseph R. (See Aiken, G. A., and Royston.)
Ruben Patents Company. (See Ruben, Samuel, assignor.)
Ruben, Samuel, assignor to Ruben Patents Company, New York, N. Y. Electrical condenser. 1,781,033; Nov. 11.
Ruby, Charles E. (See Smith, L. B., and Ruby.)
Rüegger, Eduard, Zurich, assignor to the firm Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie., Zurich, Switzerland. Electrically-actuated refrigerating machine. 1,781,082; Nov. 11.
Ruppin, Karl. (See Lehmann, E. P., and Ruppin.)
Russell, Bertrand M., Seattle, Wash. Automobile seat cover. 1,781,034; Nov. 11.
Russell, Edward A. (See Gold, E. H., and Russell.)
Russell, Edward A. (See Gold, E. H., Manchester, and Russell.)
Ruzicka, Rudolph. (See Allen, A. S., and Ruzicka.)
Rydmark, Josef, New Rochelle, assignor to International Combustion Engineering Corporation, New York, N. Y. Air-prehenting device. 1,781,303; Nov. 11.
Rygl, Frank, New York, N. Y. Extension table top. 1,781,602; Nov. 11.
Ryley, Bertram H., Moyie, British Columbia, Canada. Treating the filter cake produced from continuous filters. 1,781,652; Nov. 11.
Saklatwalla, Byramji D., Crafton, Pa. Ferrous alloy. 1,781,527; Nov. 11.
Salazar, Jess G., Atwater, Calif. Renewable-head tool. 1,781,344; Nov. 11.
Sampson, Charles H., Rochester, N. Y. Printing machine. 1,781,477; Nov. 11.
Sanders, Raymond G. (See Johnson, O., and Sanders.)
Sapier, Abraham, assignor to Universal Stamping & Mfg. Co., Chicago, Ill. Film framer for motion-picture projectors. 1,780,945; Nov. 11.
Sargent & Greenleaf, Inc. (See Hill, W. R., and Diesel, assignors.)
Savy, Robert, Courbevoie, France, G. R. Baker, and W. E. Prescott, London, England, assignors to Baker Perkins Company, Inc., Saginaw, Mich. Plant for molding creams and the like. 1,781,345; Nov. 11.
Scelzi, John B., Hopewell, Va. Ash receiver. Des. 82,521; Nov. 11.
Schatz, William A., Astoria, N. Y. Dispenser. 1,781,035; Nov. 11.
Scheyer, Heinz, Rio de Janeiro, Brazil, assignor to General Aniline Works, Inc., New York, N. Y. Compound of the pyrazolanthrone series and making same. 1,781,248; Nov. 11.
Schlegel, Charles P., assignor to Schlegel Mfg. Company, Rochester, N. Y. Grip strap or toggle. 1,781,478; Nov. 11.
Schlegel Mfg. Company. (See Schlegel, Charles P., assignor.)
Schmick, Henry J., Louisville, Ky. Power driving unit. 1,781,083; Nov. 11.
Schmidt, Albrecht, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Tanning agent. 1,780,983; Nov. 11.
Schmidt, Alfred, Weehawken, N. J. Cell-finishing machine. 1,780,982; Nov. 11.
Schmidt, Karl, Nuremberg, Germany. Dust cart. 1,781,346; Nov. 11.
Schnee mann, Justin, Chicago, Ill. Table contact. 1,781,528; Nov. 11.
Scholl, Willard J., Jackson, Mich., assignor to Malt-O-Matic Corporation. Food beverage and preparing the same. 1,781,249; Nov. 11.
Schori, Fritz, Wetzikon, Switzerland. Atomizer for materials in powder form. 1,781,603; Nov. 11.
Schreiber, Moses, assignor to Allentown Knit Fabrics Company, New York, N. Y. Knitted fabric or similar article. Des. 82,522; Nov. 11.

Schröder, Heinrich, Cassel, Germany. Umbrella. 1,780,946; Nov. 11.
Schroeter, George A., Brooklyn, N. Y., assignor of one-half to C. E. Heckel, Cincinnati, Ohio. Shoe construction. 1,781,197; Nov. 11.
Schrön, Hans, Munich, Germany. Crank shaft. 1,780,947; Nov. 11.
Schubart, Benno, Nuremberg, assignor to the firm Vereinigte Schuhfabriken Bernels-Wessels A. G., Ausburg-Oberhausen, Germany. Baby's-shoe box. Des. 82,523; Nov. 11.
Schubart, Benno, Nuremberg, assignor to the firm Vereinigte Schuhfabriken Bernels-Wessels A. G., Ausburg-Oberhausen, Germany. Baby's-shoe box. Des. 82,524; Nov. 11.
Schulman, Joseph, Brooklyn, N. Y. Fender. Des. 82,525; Nov. 11.
Schultz, Henry O. (See Herzberg, A. A., and Schultz.)
Schur, Milton O. (See Richter, G. A., and Schur.)
Schwartz, Max, Brooklyn, N. Y. Collapsible umbrella. 1,781,479; Nov. 11.
Schwarz, Henry G., Denver, Colorado. Press for extracting liquids. 1,781,250; Nov. 11.
Schweinhart, Harrison S. (See Harner, J. Z., and Schweinhart.)
Schwendt, Bernard J., Cleveland, and C. F. Stoltz, Cincinnati, Ohio. Rail support. 1,781,251; Nov. 11.
Scranton, Charles J., jr., assignor to Avery Power Machinery Co., Peoria, Ill. Recleaner. 1,781,198; Nov. 11.
Scull'n Steel Company. (See Dreibuss, H. C., and Chiles, assignors.)
Scbrell, Lorin B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Uniting rubber and other substances. 1,781,649; Nov. 11.
Seguin, Julien E. M., Paris, France. Lubricating gun. 1,781,604; Nov. 11.
Selbert, Edward G., Washington, D. C. Reproducing device. 1,781,605; Nov. 11.
Selectograph Company. (See Gollnick, P. A., Toolan, and Harred, assignors.)
Servel, Inc. (See Brown, John J., assignor.)
Sesamee Company, The. (See Hatch, Alexander G., assignor.)
Setterberg, Harry O. (See Lewis, C. L., and Setterberg.)
Sexauer, John A., New York, N. Y. Washer. 1,781,119; Nov. 11.
Shaff, Ernest H., assignor to Wm. H. Keller, Inc., Grand Haven, Mich. Pressure-fluid motor. 1,781,130; Nov. 11.
Shaff, Ernest H., assignor to Wm. H. Keller, Inc., Grand Haven, Mich. Pressure-fluid motor. 1,781,131; Nov. 11.
Shaff, Ernest H., assignor to Wm. H. Keller, Inc., Grand Haven, Mich. Pressure-fluid motor. 1,781,132; Nov. 11.
Shaff, Ernest H., assignor to William H. Keller, Inc., Grand Haven, Mich. Pressure-fluid motor. 1,781,133; Nov. 11.
Sheer, H. M., Company. (See Williams, James R., assignor.)
Shelton, Jack F., Memphis, Tenn. Furnace. 1,780,984; Nov. 11.
Shelton, Jack F., Memphis, Tenn. Seed pan. 1,780,985; Nov. 11.
Sherman, John C., Gorham, Me. Apparatus for exchanging safety-razor blades. 1,780,949; Nov. 11.
Sherman, John C., Gorham, Me., assignor to Brown Company, Berlin, N. H. Method of and apparatus for making conduits by extrusion. 1,780,948; Nov. 11.
Sherts, James H., Brackenridge, and R. E. Hamill, Tarentum, Pa., assignors to Duplate Corporation. Making laminated glass. 1,781,084; Nov. 11.
Shoemaker, Edward J., Canton, Ohio. Submarine and auxiliary boat therefor. 1,781,134; Nov. 11.
Shook, Lawrence G., Los Angeles, Calif. Venetian blind for motor vehicles. 1,781,304; Nov. 11.
Shulman, Isidor, New York, N. Y. Game. 1,781,529; Nov. 11.
Siciliani, Joseph, Chicago, Ill. Container for pastry or the like. Des. 82,526; Nov. 11.
Sickels, Allison, Cape May, N. J. Automatic control for reserve lubricants. 1,781,252; Nov. 11.
Signode Steel Strapping Company. (See McGee, Eugene H., assignor.)
Simpson, George N., Chicago, Ill. Car dumper. 1,781,606; Nov. 11.
Sinclair Refining Company. (See Herthel, Eugene C., assignor.)
Sinclair Refining Company. (See Herthel, E. C., and Isom, assignors.)
Singer Manufacturing Company, The. (See Barron, William L., assignor.)
Sipos, Frank, Detroit, Mich. Protective device. 1,780,986; Nov. 11.
Sirmans, Joseph H., Stockton, Ga. Operating mechanism for loading devices. 1,781,480; Nov. 11.
Sixma, Klaas, Montclair, N. J. Fitting for electrical conduits. 1,781,199; Nov. 11.
Skinner, Dudley N., Linwood, Pa. Gutter support. 1,781,085; Nov. 11.
Sladek, Louis J., Chicago, and H. G. Anderson, Sycamore, Ill. Copyholder. 1,781,135; Nov. 11.
Slichter, Charles S., assignor to Motorheator Company, Madison, Wis. Heating device for internal-combustion motors. 1,781,412; Nov. 11.
Slocombe, George C., Long Beach, and A. J. Cormier, Bellflower, Calif. Drilling bit. 1,781,413; Nov. 11.
Slocumb, Lloyd G., Ferguson, Mo. Radio receiving apparatus. 1,781,414; Nov. 11.
Smede, Lloyd, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Anode of carbonized iron or the like. 1,781,305; Nov. 11.
Smethers, James A., and W. Elliott, assignors to Dempster Mill Manufacturing Company, Beatrice, Nebr. Ridge-splitter. 1,781,670; Nov. 11.
Smith, Aaron J. (See Mackie, J. E., and Smith.)
Smith, Edwin S., Harrisburg, Pa. Combination sling shot and bow. 1,781,530; Nov. 11.
Smith, Elijah D., and C. S. McIntyre, Drumright, Okla. Long-stroke pumping outfits. 1,781,347; Nov. 11.
Smith, F. A., Manufacturing Company. (See Connolly, William B., assignor.)
Smith, Frank L., Columbiana, Ohio. Constructing furniture. 1,781,086; Nov. 11.
Smith, Henry J., Philadelphia, Pa. Journal jack. 1,781,136; Nov. 11.
Smith, Leighton B., Newton, and C. E. Ruby, Cambridge, Mass. Treatment of wool. 1,781,415; Nov. 11.
Smith, Thomas. (See Michell, A. G. M., Postlethwaite, and Smith.)
Smith, Walter E., Warwick Downs, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Shoe ornament. Des. 82,527; Nov. 11.
Snow, Harold A., and W. D. Loughlin, assignors to Radio Frequency Laboratories, Inc., Boonton, N. J. Input collector system for electrical amplifiers. 1,780,987; Nov. 11.
Snyder, George E., Pomona, Calif. Headlight mounting. 1,781,137; Nov. 11.
Société Anonyme Solex. (See Goudard, Maurice, assignor.)
Solar Refining Company, The. (See Werkenthin, Theodore A., assignor.)
Southwestern Engineering Corp. (See Butler, Robert S., assignor.)
Spalding, A. G., & Bros. (See Fitzpatrick, Frank B., assignor.)
Speck, John P., Tiffin, Ohio. Panel construction for signboards. 1,781,558; Nov. 11.
Speeder Machinery Corporation. (See Ronk, George T., assignor.)
Speidel Chain Co. (See Carlson, Edwin G., assignor.)
Spencer, Alexander, London, England. Railway and the like vehicle. 1,781,253; Nov. 11.
Spiros, Sam, Chicago, Ill. Trimmer for films. 1,781,200; Nov. 11.
Spreen, Charles C., Detroit, Mich. Journal-bearing seal. 1,781,201; Nov. 11.
Spry, John W., Dallas, Tex. Apparatus for proportioning and mixing materials for concrete. 1,780,988; Nov. 11.
Stamberg, Frank F., Cicero, Ill., assignor to Standard Oil Company, Whiting, Ind. Drawing lubricant. 1,781,607; Nov. 11.
Standard Oil Company. (See Stamberg, Frank F., assignor.)
Standard Oil Company of California. (See Doell, T. W., and Klemgard, assignors.)
Standard Oil Co. of Indiana. (See Watts, George W., assignor.)
Standard Oil Development Company. (See Zaikowsky, Wladimir M., assignor.)
Stapelle, Joseph, Brussels, assignor to P. Meunier, Fleurus, Belgium. Carburetor. 1,781,087; Nov. 11.
Stelling, William A., assignor to The Textile Finishing Machinery Company, Providence, R. I. Tenter clip. 1,781,138; Nov. 11.
Stelzner, Hermann, assignor to O. H. Dräger, Lubeck, Germany. Gas protective or breathing filter. 1,781,254; Nov. 11.
Stephenson Underwear Mills. (See Johnson, Fritz, assignor.)
Stern, Moses E., New York, N. Y. Window screen. 1,781,202; Nov. 11.
Stevason, John L., Indianapolis, Ind. Plant protector. 1,780,950; Nov. 11.
Stewart, Victor R. Glenside, Pa. Locomotive valve gear. 1,781,559; Nov. 11.
Still, Elmer G., Livermore, Calif. Aircraft device. Re17,868; Nov. 11.
Stockstrom, Arthur, assignor to American Stove Company, St. Louis, Mo. Gas range. Des. 82,528; Nov. 11.
Stoltz, Carl F. (See Schwendt, B. J., and Stoltz.)
Strobel, Charles K., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Radiodetector. 1,781,088; Nov. 11.
Stroble, Ella, administratrix. (See Stroble, John, assignor.)
Stroble, John, Seward, Kans., deceased; E. Stroble, administratrix. Ventilator. 1,781,608; Nov. 11.
Strom, Edwin W., Woburn, assignor of one-half to P. Bilezikian, Watertown, and one-half to A. S. Bilezikian, Newton, Mass. Steam generator. 1,781,653; Nov. 11.
Struckhoff, Aloys A. (See Oliver, W. H., Peters, and Struckhoff.)
Sturgis, Herbert M., assignor, by mesne assignments, to L. Hunt, Kansas City, Mo. Mop head. 1,781,481; Nov. 11.
Sturtevant, B. F., Company. (See Anderson, Samuel M., assignor.)
Suarez, John G., New York, N. Y. Safety-razor attachment. 1,780,951; Nov. 11.

Sugar Beet and Crop Driers Limited. (See Owen, Brynar J., assignor.)
Summers, Louis D., assignor, by mesne assignments, to Leader Iron Works, Inc., Decatur, Ill. Boiler and water heater. 1,781,531; Nov. 11.
Summers, Louis D., assignor, by mesne assignments, to Leader Iron Works, Inc., Decatur, Ill. Boiler and water heater. 1,781,532; Nov. 11.
Sundstrand, Gustaf D., assignor to Sundstrand Machine Tool Co., Rockford, Ill. Pump. 1,781,416; Nov. 11.
Sundstrand Machine Tool Co. (See Sundstrand, Gustaf D., assignor.)
Supersteam Products, Inc. (See Delling, Erik H., assignor.)
Swift and Company. (See Cook, Calvin P., assignor.)
Swift, George W., jr., assignor, by mesne assignments, to Bottle Cap Patents Company, Bordentown, N. J. Bottle-capping machine. 1,781,030; Nov. 11.
Swoboda, H. O., Inc. (See Swoboda, Hans O., assignor.)
Swoboda, Hans O., Edgewood, assignor to H. O. Swoboda, Inc., Pittsburgh, Pa. Ironing machine. 1,781,482; Nov. 11.
Symmes, Ernest M., assignor to Hercules Powder Company, Wilmington, Del. Viscosimeter. 1,780,952; Nov. 11.
Szilard, Leo. (See Einstein, A., and Szilard.)
Talboys, Henry H., assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Track jack. 1,780,989; Nov. 11.
Talboys, Henry H., assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Turntable support. 1,781,348; Nov. 11.
Talley, Charlotte, New York, N. Y. Hospital chart and card holder. 1,781,139; Nov. 11.
Tatter, John, and W. H. Pascoe, Chicago, Ill. Piston. 1,781,037; Nov. 11.
Tauschek, Gustav, Vienna, Austria. Pawl. 1,781,349; Nov. 11.
Taylor, James H., Chicago, Ill. Universal ring-rolling machine. 1,781,140; Nov. 11.
Taylor, Roscoe A., Carbondale, Ill. Tent stake. 1,781,350; Nov. 11.
Taylor, William J. (See Cowley, J. T., and Taylor.)
Tchoubritch, Michel, Sucy-en-Brie, France. Automatic telephone system. 1,781,609; Nov. 11.
Teegarden, Homer R., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Method and apparatus for making cable beads. 1,781,650; Nov. 11.
Telefonaktiebolaget L. M. Ericsson. (See Vos, Mauritz, assignor.)
Teleki, Benjamin, assignor of one-half to L. L. O'Bryan, Chicago, Ill. Composite structure. 1,781,203; Nov. 11.
Television Limited. (See Baird, John L., assignor.)
Temple, John E. (See Burney, C. D., Wallis, Norway, and Temple.)
Ten Eyck, Christine Z., administratrix. (See Ten Eyck, William B.)
Ten Eyck, William B., deceased, by C. Z. Ten Eyck, administratrix, Montclair, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Conductor. 1,780,953; Nov. 11.
Teppema, Jan, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Preserving rubber. 1,781,306; Nov. 11.
Texas Company, The. (See Dengler, Felton S., assignor.)
Textile Finishing Machinery Company, The. (See Stelling, William A., assignor.)
Thompson, William D., assignor, by mesne assignments, to Hutchins Car Roofing Company, Detroit, Mich. Car roof. 1,781,483; Nov. 11.
Thomson, Alfred M. (See Thomson, Robert and A. M.)
Thomson, Alfred M., Newark, N. J., assignor to Dardelet Threadlock Corporation, New York, N. Y. Rod or like article. Des. 82,529; Nov. 11.
Thomson, Alfred M., Newark, N. J., assignor to Dardelet Threadlock Corporation, New York, N. Y. Rod or like article. Des. 82,530; Nov. 11.
Thomson, Robert, and A. M., Newark, N. J. Power press. 1,781,038; Nov. 11.
Thring, Leonard G. P., Cambridge, England. Torsion meter. 1,781,560; Nov. 11.
Thuras, Albert L., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Vibratory system. 1,781,351; Nov. 11.
Tide Water Oil Company. (See Bertschinger, Charles F., assignor.)
Tolman, Edgar B., jr., and H. Brueckler, assignors to United Conveyer Corporation, Chicago, Ill. Pneumatic conveyer apparatus. 1,781,352; Nov. 11.
Tomkins, Stirling, South Nyack, N. Y. Belt. 1,780,954; Nov. 11.
Tomonaga, Tetsuo, Deal, N. J. Cigar case. 1,781,089; Nov. 11.
Toolan, John J. (See Golinick, P. A., Toolan, and Harred.)
Torok, Atilla S., Cumberland, Md. Governor attachment. 1,781,610; Nov. 11.
Toth, Steven, Perris, Calif. Disk plow. 1,780,955; Nov. 11.
Totten, Harry A., Burlingame, assignor to Transit Mixers, Inc., San Francisco, Calif. Concrete-mixing apparatus. 1,780,956; Nov. 11.
Townsend, Arthur J. (See Naugle, H. M., and Townsend.)
Townsend, Frank B., assignor of one-half to J. E. McMath, Penn Yan, N. Y. Basket handle. 1,781,611; Nov. 11.
Trahan, Rudolph, Rumstick Point, R. I. Valve-grinding device. 1,781,417; Nov. 11.
Transit Mixers, Inc. (See Totten, Harry A., assignor.)
Travis, Simeon E., jr., Hattiesburg, Miss. Carrier of the plural-deck type. 1,781,612; Nov. 11.
Treiber Diesel Engine Corporation. (See Treiber, Otis D., assignor.)
Treiber, Otis D., Narberth, Pa., assignor to Treiber Diesel Engine Corporation, Camden, N. J. Internal-combustion engine. 1,781,039; Nov. 11.
Trent Process Corporation. (See Trent, Walter E., assignor.)
Trent, Walter E., assignor to Trent Process Corporation, New York, N. Y. Carbonizing process. 1,781,613; Nov. 11.
Trent, Walter E., assignor to Trent Process Corporation, New York, N. Y. Distilling coals. 1,781,614; Nov. 11.
Triangle Conduit Company. (See Palmer, F., and McAuliffe, assignors.)
Trojahn, Herman E., St. Louis, Mo. Coin-controlled drive for fare registers. 1,781,353; Nov. 11.
Trouth, John E., Seminole, assignor to Independent Oil Well Cementing Co., Inc., Oklahoma City, Okla., Cement mixer for cementing oil and gas wells. 1,781,255; Nov. 11.
Tuck, Roston, Needles, Calif. Sand-drying apparatus. 1,781,484; Nov. 11.
Tyler, W. S., Company, The. (See Reynolds, Morley P., assignor.)
U. S. F. Powder Company. (See du Pont, Francis I., assignor.)
Uggla, Wilhelm R., Morby, Stocksund, assignor to Luth & Rösene Elektriska Aktiebolag, Stockholm, Sweden. Yieldable carrier for motion-transmitting devices. 1,781,418; Nov. 11.
Union Manufacturing Company, The. (See Harner, J. Z., and Schweinhart, assignors.)
Union Metal Manufacturing Company, The. (See Drumm, H. C., and Callahan, assignors.)
Union Metal Products Company. (See Gilpin, Garth G., assignor.)
Union Switch & Signal Company, The. (See Crago, Paul H., assignor.)
Union Switch & Signal Company, The. (See Strobel, Charles K., assignor.)
United Conveyer Corporation. (See Tolman, E. B., jr., and Brueckler, assignors.)
United Reproducers Corporation. (See Eisenhour, Bert E., assignor.)
United Research Corporation. (See Bradshaw, H. C., and De Forest, assignors.)
United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)
United States Air Compressor Company, The. (See Bacher, Rollin L., assignor.)
United States Printing & Lithograph Company. (See Weikel, William F., assignor.)
Universal Oil Products Company. (See Pollock, Robert T., assignor.)
Universal Stamping & Mfg. Co. (See Sapier, Abraham.)
Upperco-Burnelli Corporation, The. (See Burnelli, Vincent J., assignor.)
Vacuum Process Corporation. (See Mapother, Henry H., jr., assignor.)
Vander Gheynst, Irma H., New York, N. Y. Candy. 1,781,636; Nov. 11.
Van Ranst, Cornelius W., Auburn, Ind., assignor, by mesne assignments, to Manning & Co., Chicago, Ill. Starting-crank arrangement for front-drive automobiles. 1,781,354; Nov. 11.
Van Vlaanderen Machine Company. (See Hinnekens, Florent, assignor.)
Vapor Car Heating Company. (See Gold, E. H., Manchester, and Russell, assignors.)
Vapor Car Heating Company. (See Gold, E. H., and Russell, assignors.)
Veder, Frederika, New York, N. Y. Tea-ball holder. 1,780,957; Nov. 11.
Vereinigte Schuhfabriken Berneis-Wessels, A. G. (See Schubart, Benno, assignor.)
Veronda, William J., San Marino, Calif. Boxing amusement device. 1,781,307; Nov. 11.
Von Frankenberg, Arthur, New York, N. Y. Receptacle. 1,781,141; Nov. 11.
Von Leesen, Emil, Berlin-Treptow, Germany. Pendulum hardness tester. 1,781,615; Nov. 11.
Vos, Mauritz, assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. High-frequency differential transformer. 1,781,308; Nov. 11.
Wadell, Albert H., Newark, N. J. Clamp for seating brake linings. 1,781,355; Nov. 11.
Wagner, Frederick H., assignor to The Bartlett Hayward Co., Baltimore, Md. Gas holder. 1,781,256; Nov. 11.
Wagner, Frederick H., assignor to The Bartlett Hayward Company, Baltimore, Md. Decmulsifier. 1,781,257; Nov. 11.
Wahl, Hans, and A. Fischer, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Generating power in internal-combustion engines. 1,781,485; Nov. 11.
Walker, Arthur J., Ogden, Utah. Stencil. 1,781,258; Nov. 11.
Walker, John, & Sons, Limited. (See Hunt, Sydney, assignor.)
Walker, Robert, Vancouver, British Columbia, Canada. Furnace. 1,781,616; Nov. 11.

Walker, William B., Roxboro, N. C. Apparatus for operating on spinning frames and other machines. 1,781,142; Nov. 11.
Wallace, Ralland J., Oklahoma City, Okla. Pliers or tongs. 1,781,419; Nov. 11.
Walle, Ludwig S., Scotia, N. Y., assignor to General Electric Company. Electric switch-operating mechanism. 1,781,561; Nov. 11.
Wallis, Barnes N. (See Burney, C. D., Wallis, Norway, and Temple.)
Wallis, Thomas I., Evansville, Ind. Portable folding table. 1,781,562; Nov. 11.
Walter, Gustave, Jersey City, N. J. Locomotive bell ringer. 1,781,563; Nov. 11.
Walton, Samuel F., Hamburg, N. Y., assignor to The Ekolon Company, Blasdell, N. Y. Moldable product and producing the same. 1,781,204; Nov. 11.
Waterbury Button Company, The. (See Wolcott, Robeson B., assignor.)
Watertite Casement Hardware Co. (See Cummings, Earle W., assignor.)
Waterworth, Eric N., West Hobart, Australia. Talking machine. 1,781,617; Nov. 11.
Watts, George W., Whiting, assignor to Standard Oil Co. of Indiana, Whiting, Ind. Tar separator. 1,781,618; Nov. 11.
Wayne Pump Company, The. (See Byron, Charles L., assignor.)
Wayne Pump Company, The. (See Deutsch, Leo, assignor.)
Wehrle Company, The. (See Pickup, George E., assignor.)
Weikel, William F., assignor to United States Printing & Lithograph Company, Baltimore, Md. Printed-matter indicator. 1,781,309; Nov. 11.
Weimann Bros. Manufacturing Company. (See Dunnican, George W., assignor.)
Wellings, John G. (See Petch, H. S., and Wellings.)
Wells, Harry L. (See Wysong, Ansel S., assignor.)
Welsh, Arthur, and G. Raw, New Washington, England. Apparatus for conveying from the working face in mines. 1,781,259; Nov. 11.
Wendell, Evert J., Wayne, Pa. Rotary pump. 1,781,619; Nov. 11.
Wenzlawski, Karl E., Galveston, Tex. Electric switch. 1,781,260; Nov. 11.
Werdohler Pumpenfabrik Paul Hillebrand G. m. b. H. (See Hillebrand, Paul, assignor.)
Werkenthin, Theodore A., assignor to The Solar Refining Company, Lima, Ohio. Apparatus for fractionally extracting petroleum hydrocarbons with alcohol. 1,781,420; Nov. 11.
Werkenthin, Theodore A., assignor to The Solar Refining Company, Lima, Ohio. Fractionally extracting petroleum hydrocarbons with alcohol. 1,781,421; Nov. 11.
West, Paul F., Detroit, Mich. Vapor-supplying attachment. 1,781,356; Nov. 11.
Western Electric Company. (See Johnson, Kenneth S., assignor.)
Western Electric Company. (See Ten Eyck, William B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Chubb, Lewis W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Davidson, Archer, assignor.)
Westinghouse Electric and Manufacturing Company. (See Haas, Carl F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lidiak, Joseph P., assignor.)
Westinghouse Electric & Manufacturing Company. (See Smede, Lloyd, assignor.)
Westinghouse Electric & Manufacturing Company. (See Wolf, Lester J., assignor.)
Wetzell, Clare A., Sterling, Ill. Wheel-bearing figure toy. Des. 82,531; Nov. 11.
Wheeling Steel Corporation. (See Kielberg, Henry, assignor.)
White, David, Company, The. (See Mihalyi, Frank, assignor.)
White and Haines Optical Co. (See McCoy, Robert R., assignor.)
White, Rollin H., Cleveland Heights, Ohio. Track-laying tractor. 1,781,486; Nov. 11.
White, Samuel O., Muncie, Ind. Oiling means for transmission gearing. 1,780,958; Nov. 11.
Whitmore, George S., Yakima, Wash. Marking device. 1,781,620; Nov. 11.
Wickersham, Elmer E., San Leandro, Calif. Internal-combustion engine. 1,781,090; Nov. 11.
Wiley, Samuel, Metuchen, N. J. Illuminating device for aircraft. 1,781,621; Nov. 11.
Wiley, William R., Detroit, Mich. Hood catch. 1,781,261; Nov. 11.
Wilkes, Henry, & Company. (See Cook, Charles A., assignor.)
Wilkes, Thomas S., Corvallis, Oreg. Surgical splint. 1,780,959; Nov. 11.
Willard, Waldo W. (See Hewlett, E. M., and Willard.)
Williams, Edward, Charleroi, assignor, by mesne assignments, to Blaw-Knox Company, Pittsburgh, Pa. Furnace door. Re17,864; Nov. 11.
Williams, James H., assignor to Detroit and Security Trust Company, Detroit, Mich. Making castings. 1,781,143; Nov. 11.
Williams, James R., assignor to H. M. Sheer Company, Quincy, Ill. Damper control for house-heating systems. 1,780,960; Nov. 11.
Williams, Leonard H., Freewater, Oreg. Wire puller. 1,781,622; Nov. 11.
Williams, Paul F., assignor to G. & W. Electric Specialty Co., Chicago, Ill. Conductor disconnecter. 1,781,144; Nov. 11.
Williams, Paul F., assignor to G. & W. Electric Specialty Company, Chicago, Ill. Cable hanger. 1,781,145; Nov. 11.
Williams, Paul F., assignor to G & W Electric Specialty Co., Chicago, Ill. Pothead device for use on electrical circuits. 1,781,671; Nov. 11.
Wilson, John M., Pittsburgh, Pa., assignor to The National Supply Company, Toledo, Ohio. Pipe joint. 1,781,091; Nov. 11.
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating upon blanks. 1,780,990; Nov. 11.
Winner, Carl, Hamtramck, Mich. Power gang filing device. 1,781,150; Nov. 11.
Winterhalter, Martin, Halle-on-the-Saale, Germany, assignor, by mesne assignments, to Mishawaka Rubber & Woolen Manufacturing Company, Mishawaka, Ind. Fastening for wearing apparel and the like. Re17,865; Nov. 11.
Winters & Crampton Mfg. Co. (See Graf, Edward F., assignor.)
Wintrob, Jacob M., Philadelphia, Pa. Combined valance-board support and curtain-rod bracket. 1,781,262; Nov. 11.
Witz, Henri E., Oberhausen, Germany, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Mechanical stoker for forced-draft furnaces. 1,781,487; Nov. 11.
Wolcott, Robeson B., Watertown, assignor to The Waterbury Button Company, Waterbury, Conn. Bottle carrier. 1,781,357; Nov. 11.
Wolf, Benzion, Chicago, Ill. Garter. 1,781,673; Nov. 11.
Wolf, Lester J., South Bend, Ind., assignor to Westinghouse Electric & Manufacturing Company. Synchronizing system. 1,781,263; Nov. 11.
Wonning, Harvey H., Batesville, Ind., assignor to Combustion Utilities Corporation, New York, N. Y. Discharge cone for gas generators. 1,781,040; Nov. 11.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Paper-folding device. 1,781,422; Nov. 11.
Wood, Joseph E., assignor of one-half to J. P. Mellis, Chicago, Ill. Table construction. 1,781,423; Nov. 11.
Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
Wood, Wilfred R., London, England, assignor to International Combustion Engineering Corporation, New York, N. Y. Finely-divided-fuel-burning furnace construction. 1,781,310; Nov. 11.
Woodbridge, Charles K., Flushing, N. Y., assignor to Dictaphone Corporation, Bridgeport, Conn. Timing. 1,781,041; Nov. 11.
Working, Earl B., Manhattan, Kans. Chocolate material and making same. 1,781,672; Nov. 11.
Worthington Pump and Machinery Corporation. (See Grace, John F., assignor.)
Wright, James A., Montreal, Quebec, Canada. Front-axle assembly. 1,781,205; Nov. 11.
Wright, James A., Montreal, Quebec, Canada. Tractor. 1,781,206; Nov. 11.
Wysong, Ansel S., assignor of one-half to H. L. Wells, Chicago, Ill. Piston. 1,781,207; Nov. 11.
Young, L. A., Company. (See Link, R. A., and Harders, assignors.)
Youngblood, Daniel B., Caledonia, Mich. Truck body. 1,781,208; Nov. 11.
Youngdahl, George A. (See Cabrera, Alfred B., assignor.)
Zaikowsky, Wladimir M., Pasadena, Calif., assignor to Standard Oil Development Company. Internal-combustion engine. 1,781,146; Nov. 11.
Zaikowsky, Wladimir M., Pasadena, Calif., assignor to Standard Oil Development Company, New York, N. Y. Supercharger for internal-combustion engines. 1,781,147; Nov. 11.
Zaikowsky, Wladimir M., Pasadena, Calif., assignor to Standard Oil Development Company, New York, N. Y. Internal-combustion engine. 1,781,148; Nov. 11.
Zenker, Paul, Paris, assignor to Haviland & Co. (Societe Anonyme), Limoges, France. Plate or similar article. Des. 82,532; Nov. 11.
Zimmermann, William F., Maplewood, assignor to Gould & Eberhardt, Newark, N. J. Oiling system for shapers. 1,781,149; Nov. 11.
Zink, John S., Tulsa, Okla. Gas burner. 1,781,623; Nov. 11.
Zwerling, Harry, Brooklyn, N. Y. Installation for supplying and circulating heated or cooled air. 1,781,358; Nov. 11.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 11TH DAY OF NOVEMBER, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Absorbents for liquid-oxygen explosives and resulting absorbents and explosives, Preparing. H. C. Bugbird. 1,781,214; Nov. 11.
Accordion. C. and F. Iorio. 1,781,394; Nov. 11.
Addressing machines, Delivery mechanism for. P. A. Gollnick, J. J. Toolan, and G. Harred. 1,781,007; Nov. 11.
Advertising device. M. H. Page. 1,781,596; Nov. 11.
Aerofoil. E. B. Carns. 1,781,160; Nov. 11.
Aeroplane. C. P. Delo. 1,781,371; Nov. 11.
Aeroplane. I. Glanschnig. 1,781,455; Nov. 11.
Aeroplane, Safety. J. Leopold. 1,781,182; Nov. 11.
Air cleaner. W. T. Blaney. 1,781,430; Nov. 11.
Aircraft. V. J. Burnelli. 1,780,993; Nov. 11.
Aircraft device. E. G. Still. Re17,868; Nov. 11.
Airplane flotation apparatus, Automatic control for. E. Mayman. 1,781,291; Nov. 11.
Air-preheating device. J. Rydmark. 1,781,303; Nov. 11.
Air, Process and apparatus for purifying. P. O. Rockwell. 1,781,664; Nov. 11.
Airship, Rigid. C. D. Barney, B. N. Wallis, N. S. Norway, and J. E. Temple. 1,781,100; Nov 11.
Air tester. E. H. McFarland. 1,781,121; Nov. 11.
Alarm. J. B. Pegram. 1,781,245; Nov. 11.
Alarm apparatus. J. A. Bolduc. 1,781,096; Nov. 11.
Alloy, Ferrous. B. D. Saklatwalla. 1,781,527; Nov. 11.
Alloys, Forming. P. A. E. Armstrong. 1,781,490; Nov. 11.
Amplifier for airplanes, Sound. A. Bruni. 1,781,266; Nov. 11.
Amusement ride apparatus. H. Johnson. 1,781,464; Nov. 11.
Anchor, Rail. F. A. Preston. 1,781,191; Nov. 11.
Animal tissues, Apparatus for cleaning edible. J. Randall. 1,781,301; Nov. 11.
Animal trap. T. A. Clarkson. 1,781,163; Nov. 11.
Anode of carbonized iron or the like. L. Smede. 1,781,305; Nov. 11.
Antenna. J. Bethenod. 1,781,046; Nov. 11.
Antimony by electrolysis of acid electrolytes, Refining. H. Roscher. 1,780,944; Nov. 11.
Apparatus for playing golf in restricted spaces or indoors. H. Hill. 1,781,230; Nov. 11.
Apparatus for removing articles from molds. R. D. Hulslander. 1,781,665; Nov. 11.
Ash receiver. J. B. Scelzi. Des. 82,521; Nov. 11.
Asphalt composition and producing the same, Premixed. J. S. Downard. 1,781,105; Nov. 11.
Atomizer for materials in powder form. F. Schori. 1,781,603; Nov. 11.
Automobile. P. H. Horwitt. Des. 82,503–4; Nov. 11.
Automobile filler cap or similar article. H. V. Henderson. Des. 82,500; Nov. 11.
Automobile reverse guard. H. E. Brown. 1,781,156; Nov. 11.
Automobile ventilator. A. Berman. 1,780,903; Nov. 11.
Automobiles, Starting-crank arrangement for front-drive. C. W. Van Ranst. 1,781,354; Nov. 11.
Awning, Side. M. L. Cleland. 1,781,495; Nov. 11.
Axle assembly, Front-. J. A. Wright. 1,781,205; Nov. 11.
Axle construction. F. D. Howe. 1,780,922; Nov. 11.
Axle mounting. E. S. MacPherson. 1,781,406; Nov. 11.
Baking pan, Ventilating. C. P. Roberts. 1,781,302; Nov. 11.
Bar: *See*—
  Pinch bar. Splice bar.
  Rail-joint bar.
Basket handle. F. B. Townsend. 1,781,611; Nov. 11.
Bathtub. R. W. Dowling. 1,781,825; Nov. 11.
Battery: *See*—
  Electric battery. Storage battery.
Battery lifter. J. Petersen. 1,781,077; Nov. 11.
Battery system, Electric. E. R. Gill. 1,781,005; Nov. 11.
Battery tester. L. J. Pearson. 1,781,597; Nov. 11.
Beacon and lantern, Combined. I. Friedman. 1,781,326; Nov. 11.
Bearing cages, Making roller. H. J. Ness and C. H. Roth. 1,781,241; Nov. 11.
Bearing, Expansion. J. L. McKeown. 1,781,517; Nov. 11.
Bearing mounting. S. Madsen. 1,781,407; Nov. 11.
Bearing, Roller. C. M. Eberling. 1,781,450; Nov. 11.
Bearing, Shoe. C. C. Calkins. 1,781,157; Nov. 11.
Bed, Portable folding. E. Cocks. 1,781,439; Nov. 11.
Bell ringer, Locomotive. G. Walter. 1,781,563; Nov. 11.
Belt. S. Tomkins. 1,780,954; Nov. 11.
Beverage and preparing the same, Food. W. J. Scholl. 1,781,249; Nov. 11.
Bit: *See*—
  Disk bit. Drilling bit.
Bleacher, Movable. F. B. Fitzpatrick. 1,781,058; Nov. 11.
Blind for motor vehicles, Venetian. L. G. Shook. 1,781,304; Nov. 11.
Block: *See*—
  Cast-stone trim block.
Boat. A. Curioni. 1,780,998; Nov. 11.
Boiler: *See*—
  Fluid-fuel-fired boiler. Steam boiler.
Boiler and water heater. L. D. Summers. 1,781,531–2; Nov. 11.
Boiler furnace. H. Coerper. 1,781,269; Nov. 11.
Boiler tap guide. G. Fenk. 1,781,634; Nov. 11.
Bottle-capping machine. G. W. Swift, jr. 1,781,036; Nov. 11.
Bottle carrier. R. B. Wolcott. 1,781,357; Nov. 11.
Bottle structure. A. S. Allen. 1,781,094; Nov. 11.
Box: *See*—
  Journal box. Meter box.
  Mail box.
Box for chicks, Shipping. R. A. Gorsuch. 1,781,279; Nov. 11.
Box or container. L. S. Barnes. 1,781,624; Nov. 11.
Boxing amusement device. W. J. Veronda. 1,781,307; Nov. 11.
Brace: *See*—
  Car brace.
Bracelet chain. S. L. Lederer. Des. 82,508; Nov. 11.
Brake member. R. J. Norton. 1,781,074; Nov. 11.
Braking and apparatus therefor. C. F. Chisholm. 1,781,437; Nov. 11.
Braking mechanism for motor vehicles. H. E. Curtis. 1,781,443; Nov. 11.
Braking system. L. E. La Brie. 1,781,112; Nov. 11.
Brander, Pork-loin. C. P. Cook. 1,781,367; Nov. 11.
Brine-tank evaporation unit. J. Karmazin. 1,780,930; Nov. 11.
Broaching machine, Hydraulic. F. J. La Pointe. 1,781,114; Nov. 11.
Bucket discharge mechanism, Skip-. R. H. Beaumont. 1,781,211; Nov. 11.
Buckle, Shoe. O. R. Recchia. Des. 82,520; Nov. 11.
Building. W. B. Foshay and G. R. Magney. Des. 82,492; Nov. 11.
Building construction. I. T. Kahn. 1,780,928; Nov. 11.
Building, Metal. H. C. Drumm and J. M. Callahan. 1,781,498; Nov. 1.
Bumper for automobiles, Side. V. Hostutler. 1,780,974; Nov. 11.
Bumper, Pneumatic. H. M. Clausen. 1,780,908; Nov. 11.
Bung ring. H. M. Dillhoefer. 1,781,166; Nov. 11.
Burner: *See*—
  Gas burner. Whirl burner.
Burner for gas stoves, Top. J. Z. Harner and H. S. Schweinhart. 1,781,386; Nov. 11.
Burner plate. G. C. Anderson. 1,780,896; Nov. 11.
Butter-cutting machine. H. J. Outcelt. 1,781,075; Nov. 11.
Cabinet, Flat-top-desk. B. N. Abbott. 1,781,152; Nov. 11.
Cabinet, Toothbrush. W. H. Rickles. 1,781,247; Nov. 11.
Cable beads, Method and apparatus for making. H. R. Teegarden. 1,781,050; Nov. 11.
Cable drum, Reversible. G. T. Ronk. 1,781,195; Nov. 11.
Cable grip. J. Ring. 1,781,080; Nov. 11.
Cable hanger. P. F. Williams. 1,781,145; Nov. 11.
Cable or conduit, Protected armored. O. A. Frederickson. 1,781,574; Nov. 11.
Calculating machines, Transfer mechanism for. A. A. Horton. 1,781,179; Nov. 11.
Calender roll. J. P. Feney. 1,781,378; Nov. 11.
Camera and other optical projection device. G. W. Ford. 1,781,501; Nov. 11.
Candy. I. H. Vander Gheynst. 1,781,636; Nov. 11.
Cane-crushing apparatus. F. Maxwell. 1,781,186; Nov. 11.
Caoutchouc plates, Manufacturing raw. H. Debor. 1,781,370; Nov. 11.
Cap, and making same, Knitted. A. Rosenberg. 1,781,196; Nov. 11.
Car brace, Box-. J. A. Byington. 1,781,318; Nov. 11.
Car dumper. G. N. Simpson. 1,781,606; Nov. 11.
Car, Refrigerator. K. Edahl. 1,781,169; Nov. 11.
Car roof. W. D. Thompson. 1,781,483; Nov. 11.
Car seal. I. E. Day. 1,781,540; Nov. 11.
Car-washing system. B. S. Aikman. 1,780,991; Nov. 11.
Carbonizing process. W. E. Trent. 1,781,613; Nov. 11
Carburetor. A. C. De Lange. 1,781,218; Nov. 11.
Carburetor. L. R. Ebert. 1,781,276; Nov. 11.
Carburetor. H. Ford. 1,781,502; Nov. 11.
Carburetor. M. Goudard. 1,781,576; Nov. 11.
Carburetor. P. Meunier. 1,781,066; Nov. 11.

Carburetor. J. Stapelle. 1,781,087; Nov. 11.
Carburetor for internal-combustion engines supplied with heavy oil. J. M. A. Golnard. 1,781,327; Nov. 11.
Carburetors, Mixing device for. J. B. Kessel. Re17,869; Nov. 11.
Carrier: *See*—
  Bottle carrier.
Carrier for garments. E. R. Boyle. 1,781,628; Nov. 11.
Carrier for motion-transmitting devices, Yieldable. W. R. Uggla. 1,781,418; Nov. 11.
Carrier of the plural-deck type. S. E. Travis, jr. 1,781,612; Nov. 11.
Case: *See*—
  Cigar case.
Cast stone trim block. G. Laudicina. 1,781,586; Nov. 11.
Castings, Making. J. H. Williams. 1,781,143; Nov. 11.
Castings, Producing malleable-iron. L. H. Marshall. 1,781,119; Nov. 11.
Catch, Safety. W. O. McIntyre. 1,781,591; Nov. 11.
Cell-finishing machine. A. Schmidt. 1,780,982; Nov. 11.
Cellulose, Manufacturing high-grade alpha. L. I. L. Durchman. 1,781,449; Nov. 11.
Cement, Making Portland. F. W. Huber. 1,781,232; Nov. 11.
Cement mixer for cementing oil and gas wells. J. E. Trouth. 1,781,255; Nov. 11.
Chair. J. Passis. 1,780,938; Nov. 11.
Chamber-flushing device. L. W. Peck. 1,781,523; Nov. 11.
Chocolate material and making same. E. B. Working. 1,781,672; Nov. 11.
Chopper: *See*—
  Meat chopper.
Chuck. A. L. Currier. 1,781,442; Nov. 11.
Chute, Mail. R. M. Hulett. 1,781,282; Nov. 11.
Cigar case. T. Tomonaga. 1,781,089; Nov. 11.
Cigarette-making machinery. W. E. Molins. 1,781,239–40; Nov. 11.
Circuits, Pothead device for use on electrical. P. F. Williams. 1,781,671; Nov. 11.
Circulating tube. J. F. Arthur. Re17,866; Nov. 11.
Clamp for seating brake linings. A. H. Wadell. 1,781,355; Nov. 11.
Clay, Making a decolorizing. W. S. Baylis. 1,781,265; Nov. 11.
Cleaner: *See*—
  Air cleaner. Fluid air cleaner.
  Cotton cleaner.
Clip: *See*—
  Tenter clip.
Clip for collapsible tubes. G. W. Dunnican. 1,781,448; Nov. 11.
Clock case or similar article. A. Levy. Des. 82,509; Nov. 11.
Closure for boxes and cases. V. Oreggia. 1,781,243; Nov. 11.
Clothespin. F. Perebenda. 1,781,031; Nov. 11.
Clutch, Friction. L. B. Green. 1,781,173; Nov. 11.
Clutch mechanism for power hoists. R. A. Norling. 1,781,125; Nov. 11.
Coal and like substances, Apparatus for pulverizing. W. J. Drummond. 1,781,572; Nov. 11.
Coal from dirt and like foreign substances, Apparatus for separating. W. H. Berrisford. 1,780,965; Nov. 11.
Coal or the like, Heating. F. Puening. 1,781,079; Nov. 11.
Coal, Treating. E. V. Collins, jr. 1,781,102–3; Nov. 11.
Coals, Distilling. W. E. Trent. 1,781,614; Nov. 11.
Cocks, Sealing device for. C. A. Caldwell. 1,780,994; Nov. 11.
Communication system. J. W. Horton. 1,780,921; Nov. 11.
Commutator accessory. W. Mataya. 1,781,551; Nov. 11.
Composite structure. B. Teleki. 1,781,203; Nov. 11.
Composition of matter and forming same. M. Darrin. Re17,867; Nov. 11.
Compound for mixing with cements and making the same. R. Buhman. 1,781,267; Nov. 11.
Compound of the pyrazolanthrone series and making same. H. Scheyer. 1,781,248; Nov. 11.
Compressor, Rotary. H. E. Blood. 1,781,095; Nov. 11.
Compressor, Rotary. H. Nielsen. 1,781,073; Nov. 11.
Concentric conducting system. H. R. Nein. 1,781,124; Nov. 11.
Concrete, Apparatus for proportioning and mixing materials for. J. W. Spry. 1,780,988; Nov. 11.
Concrete mixer. V. Piispanen. 1,780,940; Nov. 11.
Concrete-mixing apparatus. H. A. Totten. 1,780,956; Nov. 11.
Concrete-mixing apparatus, Control mechanism for. O. Johnson and R. G. Sanders. 1,781,549; Nov. 11.
Condenser. J. F. Grace. 1,781,107; Nov. 11.
Condenser. J. P. Lidiak. 1,781,024; Nov. 11.
Condenser, Electric. E. T. Hoch. 1,781,917; Nov. 11.
Condenser, Electrical. S. Ruben. 1,781,033; Nov. 11.
Condensers, Exhaust connection for. J. F. Grace. 1,781,108; Nov. 11.
Conducting system, Concentric. H. A. Affel and E. I. Green. 1,781,092; Nov. 11.
Conductor. W. B. Ten Eyck. 1,780,953; Nov. 11.
Conductor disconnecter. P. F. Williams. 1,781,144; Nov. 11.
Conductor system, Concentric. H. A. Affel. 1,781,093; Nov. 11.
Conduits by extrusion, Method of and apparatus for making. J. C. Sherman. 1,780,948; Nov. 11.
Conduits, Fitting for electrical. K. Sixma. 1,781,199; Nov. 11.
Construction unit. C. E. Jones. 1,781,234; Nov. 11.
Container for pastry or the like. J. Siciliani. Des. 82,526; Nov. 11.
Container for storage and transport of liquefied gases. S. Braunstein. 1,781,048; Nov. 11.
Container liner, Ice-cream-. P. L. Goddard. 1,781,006; Nov. 11.
Container, Toilet accessories. R. Eberhardt. Des. 82,536; Nov. 11.
Control for aeroplanes, Automatic. R. Fedrizzi. 1,781,633; Nov. 11.
Control mechanism for concrete mixers. E. H. Lichtenberg. 1,780,932; Nov. 11.
Controlling mechanism, Automatic. A. J. Frame. 1,781,453; Nov. 11.
Conveyer apparatus, Pneumatic. E. B. Tolman, jr., and H. Brueckler. 1,781,352; Nov. 11.
Conveyer system. J. T. Cowley and W. J. Taylor. 1,781,655; Nov. 11.
Conveying and spacing apparatus. M. J. Anderson. 1,781,424; Nov. 11.
Conveying apparatus for dipping. M. J. Anderson. 1,781,425; Nov. 11.
Conveying from the working face in mines, Apparatus for. A. Welsh and G. Raw. 1,781,259; Nov. 11.
Cooking machine. M. C. Petersen. 1,781,669; Nov. 11.
Cooling system for passenger vehicles. C. F. Hall. 1,781,151; Nov. 11.
Cotton cleaner. F. D. Roan. 1,781,343; Nov. 11.
Counter and stop, Automatic course. F. Clemens. 1,780,909; Nov. 11.
Coupler, Hose. E. H. Gold, T. H. Manchester, and E. A. Russell. 1,781,543; Nov. 11.
Coupling. C. L. Rayfield. 1,781,409; Nov. 11.
Cover and casket or vault decoration, Grave. J. W. Blacklock. 1,781,625; Nov. 11.
Crank-case ventilator. E. S. MacPherson. 1,781,405; Nov. 11.
Crank shaft. H. Schrön. 1,780,947; Nov. 11.
Creams and the like, Plant for molding. R. Savy, G. R. Baker, and W. E. Prescott. 1,781,345; Nov. 11.
Cultivator-wheel mounting. T. Brown. 1,780,900; Nov. 11.
Curbing, Concrete. H. A. Blanchard. 1,780,904; Nov. 11.
Curd-working machine. J. J. Derfus. 1,781,373; Nov. 11.
Curling machine, Hair-. C. D. Oswald. 1,781,244; Nov. 11.
Curtain for railroad-car windows. R. F. Golden. 1,780,913; Nov. 11.
Curtain operating device, Rear-. N. V. Kreger. 1,781,646; Nov. 11.
Cut-off-controlling apparatus, Automatic gravity. M. C. Bright. 1,781,315; Nov. 11.
Cutting device and tool therefor. E. J. Beattie. 1,781,564; Nov. 11.
Cutting machine, Corn-. G. W. Klaucke. 1,781,111; Nov. 11.
Cylinder structure. T. E. Herrick, jr. 1,781,582; Nov. 11.
Damper control for house heating systems. J. R. Williams. 1,780,960; Nov. 11.
Deemulsifier. F. H. Wagner. 1,781,257; Nov. 11.
Demand meter. F. S. Marcellus. 1,781,588; Nov. 11.
Dental handpiece. J. Gross and I. Hellman. 1,781,508; Nov. 11.
Designs on cakes and the like, Device for making. T. Barbera. 1,781,209; Nov. 11.
Designs, Process and apparatus for producing artistic. R. Brunner. 1,780,969; Nov. 11.
Desk. J. R. McCarger. Des. 82,534; Nov. 11.
Diaphragm. H. C. Harrison. 1,781,387; Nov. 11.
Die-casting machine. E. N. Dollin and C. C. Jacobson. 1,781,168; Nov. 11.
Dilator. H. F. Gau. 1,780,912; Nov. 11.
Dishwashing machine. J. E. Catlett. 1,781,052; Nov. 11.
Disk bit, Multiple-cutter-. I. C. Bell. Re17,856; Nov. 11.
Disk feeder and mixer. L. C. Bonnot. 1,781,097; Nov. 11.
Disk wheel. D. H. Bellamore. 1,780,897; Nov. 11.
Dispenser. W. A. Schatz. 1,781,035; Nov. 11.
Dispensing apparatus, Fluid-. R. L. Bacher. 1,781,045; Nov. 11.
Door, Furnace. E. Williams. Re17,864; Nov. 11.
Door operating and locking mechanism. A. Perlman. 1,781,297; Nov. 11.
Door-operating device. I. E. Morrow. 1,781,594; Nov. 11.
Door, Railway-car hopper. G. G. Gilpin. 1,781,454; Nov. 11.
Dough-molding machine. L. S. Harber. 1,781,546; Nov. 11.
Dress, Ensemble. D. Long. Des. 82,510; Nov. 11.
Dress garment for ladies' wear, Outer. H. Greenbaum. Des. 82,496; Nov. 11.
Drier and stretcher, Curtain. F. L. Hannum. 1,781,177; Nov. 11.
Drill rods, Connection for. S. B. Redfield. 1,781,032; Nov. 11.
Drilling bit. G. C. Slocombe and A. J. Cormier. 1,781,413; Nov. 11.
Drinking fountain, Portable sanitary. S. Quisling. 1,781,599; Nov. 11.
Driving-box lubricator. F. W. Martin. 1,781,337; Nov. 11.
Dust cart. K. Schmidt. 1,781,346; Nov. 11.
Duster, Rock. A. J. Gurney. 1,781,509; Nov. 11.

Dye preparation. M. B. Parrish. 1,780,981; Nov. 11.
Dyestuffs of the anthraquinone series, Acid wood. G. Kranzlein, F. Roemer, and E. Kronholz. 1,780,976; Nov. 11.
Dyestuffs of the anthraquinone series, New valuable vat. W. Mieg. 1,718,238; Nov. 11.
Eccentric drive. T. N. Pierson. 1,781,474; Nov. 11.
Educational device. S. O. Bondeson. 1,781,047; Nov. 11.
Electric battery. W. E. Holland. 1,781,040; Nov. 11.
Electric bulb or similar article. G. Niebel. Des. 82,515; Nov. 11.
Electric heater. A. E. Ellinger. Des. 82,490; Nov. 11.
Electric iron. P. S. Campbell. 1,781,158; Nov. 11.
Electric machine, Dynamo-. F. Creedy. 1,781,538; Nov. 11.
Electric switch. J. R. Cook. 1,781,441; Nov. 11.
Electric switch. E. M. Hewlett and W. W. Willard. 1,781,173; Nov. 11.
Electric switch. K. E. Wenzlawski. 1,781,260; Nov. 11.
Electrical conductor and making the same. F. Palmer and J. E. McAuliffe. 1,781,521; Nov. 11.
Electrical connector or similar article. D. L. Hadley. Des. 82,499; Nov. 11.
Electrical network. K. S. Johnson. 1,781,396; Nov. 11.
Electrical switch, Thermostatically-operated. E. J. Levy. 1,781,289; Nov. 11.
Electrical testing system. E. Bruce. 1,781,363; Nov. 11.
Electrical transmission system. P. W. Blye. 1,780,966; Nov. 11.
Electrolysis device. J. Brigida. 1,781,362; Nov. 11.
Electrolytic cell. W. E. Holland and L. J. Pearson. 1,781,641; Nov. 11.
Elevator: *See*—
Portable elevator.
Emulsified compositions, Making. L. Kirschbraun. 1,781,645; Nov. 11.
Engine: *See*—
Internal-combustion engine. Steam engine.
Engine with slot scavenging and airless fuel injection, Two-cycle. W. Riehm. 1,781,194; Nov. 11.
Ethyl esters, Preparing. A. R. Cade. 1,781,050; Nov. 11.
Extension device. E. G. Carlson. 1,781,101; Nov. 11.
Fabric or similar article, Knitted. M. Schreiber. Des. 82,522; Nov. 11.
Fabrics with liquids, Method and apparatus for treating. F. Hinnekens. 1,781,391; Nov. 11.
Fan, Centrifugal. A. A. Criqui. 1,781,165; Nov. 11.
Fan propeller. S. M. Anderson. 1,781,155; Nov. 11.
Fare register. D. N. Hyman. 1,781,462; Nov. 11.
Fastener, Clothesline. J. B. Errett. 1,781,573; Nov. 11.
Fastener, Collar. L. A. Hill. 1,781,639; Nov. 11.
Fastener, Door. J. H. Pineo. 1,780,941; Nov. 11.
Fastening device. M. H. Place. 1,781,078; Nov. 11.
Fastening for wearing apparel and the like. M. Winterhalter. Re17,865; Nov. 11.
Fats, Regenerating used cooking. M. Brandt. 1,781,661; Nov. 11.
Faucet-supporting plug. I. T. Kahn. 1,780,929; Nov. 11.
Feed-control mechanism. W. C. De Roo. 1,781,274; Nov. 11.
Feed mechanism, Pneumatic. S. Halvorsen. Re17,861; Nov. 11.
Felts of polisher runners in glass-polishing apparatus, Process of and apparatus for washing off the. J. H. Griffin. 1,781,226; Nov. 11.
Fender: *See*—
Ship's fender.
Fender. J. Schulman. Des. 82,525; Nov. 11.
Ferryboat. P. C. Day. 1,781,656; Nov. 11.
Fertilizer distributor. C. G. Goodrich. 1,781,278; Nov. 11.
Fiber liberating and bleaching process. G. A. Richter and M. O. Schur. 1,780,943; Nov. 11.
Fibrous material, Digestion of. T. L. Dunbar. 1,781,447; Nov. 11.
Fibrous sheet material and making same. J. C. Peabody and A. Bowers. 1,781,668; Nov. 11.
Figure toy, Wheel-bearing. C. A. Wetzell. Des. 82,531; Nov. 11.
File guide for saw sharpening. N. A. Booth. 1,781,626; Nov. 11.
Filing device, Power gang. C. Winner. 1,781,150; Nov. 11.
Film printers, Forming light strips for motion-picture-. L. de Beaulieu. 1,781,000; Nov. 11.
Films, Trimmer for. S. Spires. 1,781,200; Nov. 11.
Filter apparatus. R. S. Butler. 1,780,905; Nov. 11.
Filter cake produced from continuous filters, Treating the. B. H. Ryley. 1,781,652; Nov. 11.
Filter discharger. C. C. Heritage. 1,781,389; Nov. 11.
Filter, Wave. W. P. Mason. 1,781,469; Nov. 11.
Finial for lighting fixtures or similar articles. C. F. Haas. Des. 82,498; Nov. 11.
Fire extinguisher, Hand foamite. J. A. McCracken. 1,781,292; Nov. 11.
Fire-extinguishing system. D. Mapes. 1,781,026; Nov. 11.
Fire foam, Continuous production of. J. A. McCracken. 1,781,295; Nov. 11.
Fire-foam production, Apparatus for. P. W. Prutzman. 1,781,300; Nov. 11.
Fish lure. E. H. Peckinpaugh. 1,781,598; Nov. 11.
Fishing rods, Line-supporting ring for. C. A. Cook. 1,781,569; Nov. 11.
Floor sleeper. J. E. Mackie and A. J. Smith. 1,781,117; Nov. 11.
Fluid air cleaner. J. L. Green. 1,781,638; Nov. 11.
Fluid-fuel-fired boiler. B. Greenfield. 1,781,174; Nov. 11.
Fluid meter. R. J. Lyman. 1,781,466; Nov. 11.
Fluid-operated apparatus for lifting automobile wheels. F. B. Di Neuberg. 1,780,972; Nov. 11.
Fluids under pressure, Release device for. D. Mapes. 1,781,027; Nov. 11.
Foam-producing apparatus, Portable. J. A. McCracken. 1,781,293; Nov. 11.
Foam-producing method and apparatus, Continuous. P. W. Prutzman. 1,781,298; Nov. 11.
Foam solutions, Continuous production of. P. W. Prutzman. 1,781,299; Nov. 11.
Foam solutions, Method of and apparatus for production of. J. A. McCracken. 1,781,294; Nov. 11.
Folding table, Portable. T. I. Wallis. 1,781,562; Nov. 11.
Fork: *See*—
Tuning fork.
Fountain: *See*—
Drinking fountain.
Frames and other machines, Apparatus for operating on spinning. W. B. Walker. 1,781,142; Nov. 11.
Fruit-cleaning machine. H. A. Ingraham. 1,780,924; Nov. 11.
Fuel-burning devices, Safety control mechanism for. C. B. Chandler. 1,780,971; Nov. 11.
Furnace: *See*—
Boiler furnace.
Furnace. J. F. Shelton. 1,780,984; Nov. 11.
Furnace. R. Walker. 1,781,616; Nov. 11.
Furnace construction, Finely-divided-fuel-burning. W. R. Wood. 1,781,310; Nov. 11.
Furnace-controlling device. T. W. Price. 1,780,942; Nov. 11.
Furniture, Constructing. F. L. Smith. 1,781,086; Nov. 11.
Fuse and circuit tester, Safety. A. A. Montapert. 1,781,593; Nov. 11.
Fuse for artillery and aircraft projectiles, Percussion. L. E. Rémondy. 1,781,556; Nov. 11.
Game. I. Shulman. 1,781,529; Nov. 11.
Game or toy. G. H. Johns. 1,781,463; Nov. 11.
Game table. M. Harris. Des. 82,533; Nov. 11.
Garment, Combination. M. E. McCoy. 1,781,590; Nov. 11.
Garter. W. Königsberger. 1,780,931; Nov. 11.
Garter. B. Wolf. 1,781,673; Nov. 11.
Garter grip. S. Borgnis. 1,781,431; Nov. 11.
Gas burner. J. S. Zink. 1,781,623; Nov. 11.
Gas protective or breathing filter. H. Stelzner. 1,781,254; Nov. 11.
Gauge for gasoline tanks, etc. H. Mossbach. 1,781,030; Nov. 11.
Gear, Airship-mooring-mast. A. Hall-Brown and E. W. Jones. 1,781,010; Nov. 11.
Gear, Locomotive valve. V. R. Stewart. 1,781,559; Nov. 11.
Gear-shift mechanism. H. E. Blood and R. Lapsley. 1,780,898; Nov. 11.
Gear-shifting mechanism. I. E. Coffey. 1,781,270; Nov. 11.
Gearing for machines. W. D. Dobson. 1,781,275; Nov. 11.
Generator: *See*—
Steam generator.
Generators, Discharge cone for gas. H. H. Wonning. 1,781,040; Nov. 11.
Glass articles, Manufacture of blown-. S. Hunt. 1,781,233; Nov. 11.
Glass, Feeding molten. K. E. Peiler. 1,781,340; Nov. 11.
Glass, Making laminated. J. H. Sherts and R. E. Hamill. 1,781,084; Nov. 11.
Glass, Method and apparatus for drawing sheet. E. F. Ferngren. 1,781,452; Nov. 11.
Glassware, Method and apparatus for making articles of. R. J. Beatty. 1,781,565; Nov. 11.
Globe for a lighting fixture. C. F. Haas. Des. 82,497; Nov. 11.
Goggles. J. Michell. 1,781,067; Nov. 11.
Golf-ball washer. E. M. Laing. 1,781,113; Nov. 11.
Golf-club grip. C. B. Margrave. 1,781,290; Nov. 11.
Governor attachment. A. S. Torok. 1,781,610; Nov. 11.
Grab, Pipe. J. E. Lyons. 1,781,335; Nov. 11.
Grain separator. O. N. Nagle. 1,781,472; Nov. 11.
Gramophones and like machines, Changing the needles of. L. Mangham. 1,781,587; Nov. 11.
Grapple, Automatic. A. A. Munn. 1,781,518; Nov. 11.
Grate. A. J. Koepsell. 1,781,331; Nov. 11.
Grease gun, High-pressure. L. Deutsch. 1,781,374; Nov. 11.
Grinding device, Valve-. R. Traban. 1,781,417; Nov. 11.
Gun mount for submarines, Twin. H. E. Grieshaber. 1,781,175; Nov. 11.
Hairpin. C. A. Dies. 1,781,324; Nov. 11.
Hamburger-cake-pressing machine. W. H. Oliver, O. L Peters, and A. A. Struckhoff. 1,781,339; Nov. 11.
Handle: *See*—
Basket handle.
Hanger: *See*—
Cable hanger.
Harrow. H. Heitmuller. 1,781,459; Nov. 11.
Harrow, Disk. S. S. Furrer. 1,781,171; Nov. 11.
Harrows, Disk-mounting attachment for. G. V. Beckman. 1,781,428; Nov. 11.
Hatcher, Egg. L. A. Marshall. 1,781,336; Nov. 11.
Headlight mounting. G. E. Snyder. 1,781,137; Nov. 11.

Headrest and strap hanger, Combined automobile. S. Quisling. 1,781,600; Nov. 11.
Hearths, Operating mechanism for Scotch. H. R. MacMichael. 1,781,025; Nov. 11.
Heater: *See*—
Boiler and water heater.
Heating device for internal-combustion motors. C. S. Slichter. 1,781,412; Nov. 11.
Heating inclosures electrically. C. L. Burgher. Re17,857; Nov. 11.
Heel for shoes, Cushioned. W. M. Cohan and M. N. Ratzan. 1,780,997; Nov. 11.
Heel, Shoe. L. M. Oakley. Des. 82,517; Nov. 11.
Hinge, Check. W. C. Mangel. 1,781,185; Nov. 11.
Holder, Adjustable-tension paper. J. A. Hoegger. 1,781,547; Nov. 11.
Holder and concrete anchor, Combination form. C. N. Rohaut and E. G. Gearhart. 1,781,601; Nov. 11.
Holder and dispenser, Note. H. Levy. 1,781,022; Nov. 11.
Holder, Bag. C. E. Constable. 1,781,164; Nov. 11.
Holder, Cigarette. J. W. Blesch. 1,781,566; Nov. 11.
Holder, Cigarette. A. M. Nurnberg. 1,780,936; Nov. 11.
Holder, Cop. L. J. Sladek and H. G. Anderson. 1,781,135; Nov. 11.
Holder, Gas. F. H. Wagner. 1,781,256; Nov. 11.
Holder, Hospital chart and card. C. Talley. 1,781,139; Nov. 11.
Holder, License-plate. A. H. Humphrey. 1,781,642; Nov. 11.
Holder, Tea-ball. F. Veder. 1,780,957; Nov. 11.
Holder, Twine. H. P. Bulkley. 1,781,364; Nov. 11.
Holding and dispensing device, Note. H. Levy. 1,781,023; Nov. 11.
Holster, Shoulder pistol. E. E. Clark. 1,781,162; Nov. 11.
Hood catch. W. R. Wiley. 1,781,261; Nov. 11.
Hook: *See*—
Suspending hook.
Horn, Loud-speaker. A. I. Abrahams. 1,781,489; Nov. 11.
Hull for water craft. A. N. Campbell. 1,780,970; Nov. 11.
Humidifier and heater. C. E. Lewis. 1,781,515; Nov. 11.
Hydrocarbons, Refining. E. C. Herthel. 1,781,388; Nov. 11.
Ice grid. E. P. S. Newman. 1,780,980; Nov. 11.
Ignition device for mercury-arc rectifiers. J. Jonas. 1,781,330; Nov. 11.
Illuminating device for aircraft. S. Wiley. 1,781,621; Nov. 11.
Illuminating system, reflector, and lamp assembly. R. P. De Vault. 1,781,053; Nov. 11.
Index device. H. V. Mitchell. 1,781,070; Nov. 11.
Indicating device for carriers. R. L. Dudley. 1,781,055; Nov. 11.
Indicator: *See*—
Printed-matter indicator.
Indicator diagrams, Method and apparatus for obtaining. H. M. Jacklin and C. P. Roberts. 1,781,013; Nov. 11.
Indicator for use on vehicles, Direction and movement. R. J. Paton. 1,781,522; Nov. 11.
Inner-tube mold, Upright. R. W. Hutchens and A. R. Krause. 1,781,393; Nov. 11.
Input collector system for electrical amplifiers. H. A. Snow and W. D. Loughlin. 1,780,987; Nov. 11.
Installation for supplying and circulating heated or cooled air. H. Zwerling. 1,781,358; Nov. 11.
Instrument panel. H. V. Henderson. Des. 82,501; Nov. 11.
Internal-combustion engine. C. H. Anderson. 1,781,042; Nov. 11.
Internal-combustion engine. H. B. Greening and J. W Galloway. 1,781,008; Nov. 11.
Internal-combustion engine. M. Marcellus. 1,781,589; Nov. 11.
Internal-combustion engine. O. D. Treiber. 1,781,039; Nov. 11.
Internal-combustion engine. E. E. Wickersham. 1,781,090; Nov. 11.
Internal-combustion engine. W. M. Zaikowsky. 1,781,146; Nov. 11.
Internal-combustion engine. W. M. Zaikowsky. 1,781,148; Nov. 11.
Internal-combustion engine, Two-cycle. H. B. Greening. 1,781,009; Nov. 11.
Iron: *See*—
Electric iron.
Ironing machine. H. O. Swoboda. 1,781,482; Nov. 11.
Jack: *See*—
Journal jack. Track jack.
Jamb section. A. L. Abbott. 1,781,488; Nov. 11.
Joint: *See*—
Pipe joint. Rail joint.
Journal box. P. B. Liebermann. 1,781,235; Nov. 11.
Journal-box and frame connection. R. J. Brittain, jr. 1,781,213; Nov. 11.
Journal jack. H. J. Smith. 1,781,136; Nov. 11.
Kite. A. B. Cabrera. 1,781,662; Nov. 11.
Knitting machine, Straight-frame. F. Israelson. 1,780,975; Nov. 11.
Lamp-base member or article of similar nature. F. Collins. Des. 82,479–88; Nov. 11.
Lamp, Motor-vehicle head. R. W. Johnson. Des. 82,535; Nov. 11.
Lamp or article of analogous nature. M. Kiwad. Des. 82,506; Nov. 11.
Latch. E. F. Graf. 1,781,172; Nov. 11.
Latch, Door. J. Galamb. 1,781,505; Nov. 11.
Latch for service boxes. J. C. Lewis. 1,781,115; Nov. 11.
Lath, Expanded-metal. W. G. Hurlbert, jr., and E. E. Marshman. 1,781,012; Nov. 11.
Lathe for turning crank shafts. H. O. Hess. 1,781,228–29; Nov. 11.
Lavatory. L. W. Brophy. 1,780,968; Nov. 11.
Level, Transit. F. Mihalyi. 1,781,666; Nov. 11.
Lifter: *See*—
Battery lifter. Valve lifter.
Light projectors, Device for automatic adjustment of. A. E. Adam. 1,781,311; Nov. 11.
Lighting device for cigars and the like, Electrical. W. B. Connolly. 1,781,440; Nov. 11.
Lighting fixture. A. J. D. Ohm. Des. 82,518–19; Nov. 11.
Lighting fixture canopy or the like. H. Goodfriend. Des. 82,494; Nov. 11.
Lighting-fixture globe holder or the like. H. Goodfriend. Des. 82,495; Nov. 11.
Lighting unit. H. J. Graham. 1,781,544; Nov. 11.
Liquid of low freezing point for cooling and for sealing vessels and the like. O. Jordan. 1,780,927; Nov. 11.
Liquids in flying machines, Accommodation of. C. Dornier. 1,781,446; Nov. 11.
Loader, Hay. M. G. Kurth. 1,781,332; Nov. 11.
Loading devices, Operating mechanism for. J. H. Sirmans. 1,781,480; Nov. 11.
Lock: *See*—
Permutation lock.
Lock for casement sash, Sash. S. Madsen. 1,781,468; Nov. 11.
Lock mechanism, Reverse. C. P. Cirac. 1,780,907; Nov. 11.
Lock washer. G. A. Aiken and J. R. Royston. 1,781,660; Nov. 11.
Locking device. G. T. Irwin. 1,781,643; Nov. 11.
Locomotive, Finely-divided-fuel-burning. G. W. Clendon. 1,781,319; Nov. 11.
Looms, Transfer mechanism for. H. M. Jeffrey. 1,781,514; Nov. 11.
Lubricant, Drawing. F. F. Stamberg. 1,781,607; Nov. 11.
Lubricants, Automatic control for reserve. A. Sickels. 1,781,252; Nov. 11.
Lubricants, Manufacture of. F. S. Dengler. 1,781,444; Nov. 11.
Lubricating gun. J. E. M. Seguin. 1,781,604; Nov. 11.
Lubricating means. C. L. Byron. 1,781,493; Nov. 11.
Lubrication guide. C. E. Holt. 1,781,512; Nov. 11.
Lubrication system for shaping machines. H. W. Jacobson. 1,781,110; Nov. 11.
Lubricator: *See*—
Driving-box lubricator.
Lubricator. A. G. Norton. 1,781,554; Nov. 11.
Machine for husking coconuts. G. Celaya. 1,781,215; Nov. 11.
Machine for making caps. A. J. Jansson. 1,780,926; Nov. 11.
Machine for operating upon blanks. E. E. Winkley. 1,780,990; Nov. 11.
Machine for slitting sheets to be stretched. R. S. Allyn. 1,781,533; Nov. 11.
Machine for the manufacture of card clothing. J. Goby. 1,781,383; Nov. 11.
Mail box. O. M. Aarseth. 1,781,264; Nov. 11.
Manifold, Inlet. H. L. Brownback. 1,781,434; Nov. 11.
Marking device. G. S. Whitmore. 1,781,620; Nov. 11.
Match. H. H. Honigbaum. 1,781,920. Nov. 11.
Material dispersion, Treating-. J. R. Nellson. 1,781,188; Nov. 11.
Material-handling apparatus. L. L. Kelly. 1,781,644; Nov. 11.
Measuring instrument. E. H. Bristol. 1,781,212; Nov. 11.
Measuring instrument. I. W. Reynolds. 1,781,246; Nov. 11.
Meat chopper. R. K. Gullberg. 1,780,914; Nov. 11.
Meats, Condimentation of ground. H. E. Allen. 1,781,154; Nov. 11.
Mechanism for the interconversion of reciprocating and rotary motion. A. G. M. Michell and J. P. Postlethwaite, and T. Smith. 1,781,069; Nov. 11.
Metal folder, Sheet-. F. J. Jarecki. 1,781,180; Nov. 11.
Metal for painting, Preparing. J. H. Gravell. 1,781,507; Nov. 11.
Metallic insert for brick or tile structures. G. W. Denison. 1,781,445; Nov. 11.
Metallic strap, Flexible. W. Forstner. 1,781,379; Nov. 11.
Meter: *See*—
Demand meter. Torsion meter.
Fluid meter.
Meter box, Water-. L. G. Haase and F. M. Brooks. 1,781,280; Nov. 11.
Mixer: *See*—
Concrete mixer.
Mixing apparatus. A. C. Gilbert. 1,781,381; Nov. 11.
Mixing device. M. Alland. 1,781,359; Nov. 11.
Mixing machine. W. F. Dehuff. 1,781,321; Nov. 11.
Moisture content of sheet material, Measuring. A. Allen. 1,781,153; Nov. 11.
Mold: *See*—
Inner-tube mold.
Mold. P. Keller. 1,781,658; Nov. 11.

Mold for casting ingots of steel or other metals. A. G. E. Hultgren. 1,781,392; Nov. 11.
Moldable product and producing the same. S. F. Walton. 1,781,204; Nov. 11.
Molds, Making double-sided. G. Eckstein. 1,781,451; Nov. 11.
Molds, Mechanism for making. E. F. Oyster. 1,781,126; Nov. 11.
Mop. M. K. Merkle. 1,781,237; Nov. 11.
Mop, Dusting. H. Hertzberg. 1,781,460; Nov. 11.
Mop head. H. M. Sturgis. 1,781,481; Nov. 11.
Motor: *See*—
Pressure-fluid motor. Windshield-cleaner motor.
Motor and pump, Fluid. A. G. M. Michell. 1,781,068; Nov. 11.
Motor for operating windshield cleaners. J. L. Nilson and J. F. Prince.
Motor spreader. R. T. Ainslie. 1,780,902; Nov. 11.
Mounting, Adjustable. J. O. Carrey. 1,781,161; Nov. 11.
Muffler. C. W. Eisele. 1,781,001; Nov. 11.
Muller pan. R. H. McElroy and P. A. Meehan. Des. 82,513; Nov. 11.
Musical-instruction device. H. Holzman. 1,780,918; Nov. 11.
Necktie. W. Eyernschmalz. 1,781,377; Nov. 11.
Nonskid device. W. R. Brewer. 1,780,967; Nov. 11.
Nozzle for fire-extinguishing systems, Nonclogging. D. Mapes. 1,781,028; Nov. 11.
Nozzle for suction cleaners, Blowing. A. O. Engberg and A. Eriksson-Jons. 1,781,542; Nov. 11.
Oil and producing the same, Chatterless. T. W. Doell and E. N. Klemgard. 1,781,167; Nov. 11.
Oil, Cracking petroleum. R. T. Pollock. 1,781,128; Nov. 11.
Oil, Dehydrating. W. L. Palmer. 1,781,076; Nov. 11.
Oil-treating apparatus. J. J. Fearis. 1,781,032; Nov. 11.
Oiling means for transmission gearing. S. O. White. 1,780,958; Nov. 11.
Oiling system for shapers. W. F. Zimmermann. 1,781,149; Nov. 11.
Oils, Cracking of. E. C. Berthel and E. W. Isom. 1,781,390; Nov. 11.
Ophthalmic mounting. R. R. McCoy. Des. 82,512; Nov. 11.
Ophthalmic mounting, End piece for an. N. M. Baker. Des. 82,473–4; Nov. 11.
Ore and other material, Apparatus for disintegrating. H. Hardinge. 1,780,915; Nov. 11.
Ornament, Shoe. W. E. Smith. Des. 82,527; Nov. 11.
Oven, Coking. A. Beckers. 1,780,992; Nov. 11.
Packing or tightening plate. R. Burgmann. 1,781,365; Nov. 11.
Packing strip, Article-. L. Rousseau. 1,781,476; Nov. 11.
Packing welding rods and a bundle for the same. J. C. Armor. 1,781,360; Nov. 11.
Pails, Handle grip for. W. W. Hodgson. 1,781,583; Nov. 11.
Paint and making same, Cold-water. L. H. Larson. 1,781,019; Nov. 11.
Paints, Making. H. H. Mapother, jr. 1,781,648; Nov. 11.
Paints, Production of. J. B. Carper. 1,781,435; Nov. 11.
Pan: *See*—
Baking pan. Seed pan.
Panel, Illuminated instrument. H. E. Norviel. 1,781,242; Nov. 11.
Paper-folding device. H. A. W. Wood. 1,781,422; Nov. 11.
Paper weight, Match-holding. A. J. Herschmann. Des. 82,502; Nov. 11.
Pastry-baking machine, Automatic. G. Reiber. 1,781,411; Nov. 11.
Patch for tubes and other rubber goods, Bevel-cut. J. G. Gross. Re17,860; Nov. 11.
Patch, Inner-tube. C. E. Dunlap. Re17,859; Nov. 11.
Pawl. G. Tauschek. 1,781,349; Nov. 11.
Pen, Fountain. W. C. Ford. 1,781,504; Nov. 11.
Pendulum hardness tester. E. von Leesen. 1,781,615; Nov. 11.
Permutation lock. A. G. Hatch. 1,781,510; Nov. 11.
Petroleum hydrocarbons with alcohol, Apparatus for fractionally extracting. T. A. Werkenthin. 1,781,420; Nov. 11.
Petroleum hydrocarbons with alcohol, Process for fractionally extracting. T. A. Werkenthin. 1,781,421; Nov. 11.
Phonograph, Synchronous motor-driven. C. I. Hall. 1,781,577; Nov. 11.
Photographic reproduction apparatus. C. Arana. 1,781,044; Nov. 11.
Photography, Apparatus for color. H. N. Cox. 1,781,496; Nov. 11.
Piano. J. H. Clark. 1,781,216; Nov. 11.
Pick, Ice. A. I. Platt. 1,781,475; Nov. 11.
Picture. F. Blau. 1,781,313; Nov. 11.
Picture projectors, Film framer for motion-. A. Sapier. 1,780,945; Nov. 11.
Pillow. W. Kushlin, H. Kesner, and I. Oltsik. Des. 82,507; Nov. 11.
Pinch bar. H. M. Howe. 1,781,329; Nov. 11.
Pinion shaft of rear axle, Mounting for. T. C. Delaval-Crow. 1,781,219; Nov. 11.
Pipe joint. R. H. Hellyer. 1,781,581; Nov. 11.
Pipe joint. J. M. Wilson. 1,781,091; Nov. 11.
Pipe joint or connection. A. I. Fischer. 1,781,222; Nov. 11.
Pipe structure, Flexible. E. H. Gold and E. A. Russell. 1,781,456–7; Nov. 11.
Pipe vise and bender. A. H. Meier. 1,781,592; Nov. 11.
Pipes of correct prescribed lengths, Apparatus for producing bent. R. H. Böhling. 1,781,567; Nov. 11.
Piston. J. Tatter and W. H. Pascoe. 1,781,037; Nov. 11.
Piston. A. S. Wysong. 1,781,207; Nov. 11.
Piston ring, Sealing. C. L. Lewis and H. O. Setterberg. 1,781,183; Nov. 11.
Piston rings, Method of and mold for casting. E. N. Broderick and T. D. Lucier. 1,781,098; Nov. 11.
Pitcher. M. J. Perry, jr. Re17,863; Nov. 11.
Plant protector. J. L. Stevason. 1,780,950; Nov. 11.
Plant-treating apparatus. C. L. Giezentanner. 1,781,004; Nov. 11.
Plate or similar article. P. Zenker. Des. 82,532; Nov. 11.
Pliers or tongs. R. J. Wallace. 1,781,419; Nov. 11.
Plow, Disk. S. Toth. 1,780,955; Nov. 11.
Portable elevator. R. De Lamar. 1,781,104; Nov. 11.
Powder puff and making same. L. L. Raynor. 1,781,410; Nov. 11.
Powder, Smokeless. F. I. du Pont. 1,780,911; Nov. 11.
Powder-supplying device with adjustable feed. L. Mutti. 1,781,595; Nov. 11.
Power-driving unit. H. J. Schmick. 1,781,083; Nov. 11.
Power in internal-combustion engines, Generating. H. Wahl and A. Fischer. 1,781,485; Nov. 11.
Power plant. A. Davidson. 1,781,368; Nov. 11.
Power plants, Steam-drying or water-separating apparatus for steam-. F. Broeker. 1,781,568; Nov. 11.
Power press. W. Klocke. 1,781,397; Nov. 11.
Power press. R. and A. M. Thomson. 1,781,038; Nov. 11.
Power-transmission mechanism. F. F. Dorsey and C. W. Crumrine. Re17,858; Nov. 11.
Press: *See*—
Power press.
Press. R. T. Anderson. 1,780,961; Nov. 11.
Press for extracting liquids. H. G. Schwarz. 1,781,250; Nov. 11.
Pressure-fluid motor. E. H. Shaff. 1,781,130–3; Nov. 11.
Pressure-relief device. C. D. Helm. 1,781,227; Nov. 11.
Printed-matter indicator. W. F. Welkel. 1,781,309; Nov. 11.
Printing machine. F. Johnson. 1,781,395; Nov. 11.
Printing machine. H. G. Knox. 1,781,017; Nov. 11.
Printing machine. C. H. Sampson. 1,781,477; Nov. 11.
Protective arrangement. H. S. Petch and J. G. Wellings. 1,781,555; Nov. 11.
Protective device. F. Sipos. 1,780,986; Nov. 11.
Puller: *See*—
Wire puller.
Pulverulent material, Thermal treatment of. F. Bartling. 1,781,659; Nov. 11.
Pump. A. McNab. 1,781,404; Nov. 11.
Pump. G. D. Sundstrand. 1,781,416; Nov. 11.
Pump, Rotary. H. P. Lewis and E. S. Peters. 1,781,065; Nov. 11.
Pump, Rotary. E. J. Wendell. 1,781,619; Nov. 11.
Pump, Rotary air. L. F. Easton. 1,781,375; Nov. 11.
Pumping operating mechanism, Straight-line. A. E. and W. E. Martois. 1,780,933; Nov. 11.
Pumping outfit, Long-stroke. E. D. Smith and C. S. McIntyre. 1,781,347; Nov. 11.
Radiator. R. L. Hawkins. 1,781,511; Nov. 11.
Radiator screen, Automobile. M. M. Fischer. Des. 82,491; Nov. 11.
Radiators, Attachment for automobile. F. Power. 1,781,525; Nov. 11.
Radiodetector. C. K. Strobel. 1,781,088; Nov. 11.
Radio receiving apparatus. L. Q. Slocumb. 1,781,414; Nov. 11.
Radio system. L. W. Chubb. 1,781,268; Nov. 11.
Rail-joint bar. V. C. Armstrong. 1,781,426; Nov. 11.
Rail-joint bar. D. L. Braine. 1,781,433; Nov. 11.
Rail-joint shim, Temporary. G. M. Clodfelter. 1,781,438; Nov. 11.
Railway and the like vehicle. A. Spencer. 1,781,253; Nov. 11.
Railways, Current collector for electric. J. F. de Tovàros. 1,781,323; Nov. 11.
Railways, Switch-operating mechanism for electric. A. Patz. 1,780,939; Nov. 11.
Range, Gas. A. Stockstrom. Des. 82,528; Nov. 11.
Razor attachment, Safety-. J. G. Suarez. 1,780,951; Nov. 11.
Razor blades, Apparatus for exchanging safety-. J. C. Sherman. 1,780,949; Nov. 11.
Razor, Safety. J. Menzak. 1,780,934; Nov. 11.
Receptacle. A. von Frankenberg. 1,781,141; Nov. 11.
Receptacle for small articles, Safety. W. R. Hill and W. F. Diesel. 1,781,060; Nov. 11.
Receptacle, Pilot-light. T. A. Both. 1,781,535; Nov. 11.
Recleaner. C. J. Scranton, jr. 1,781,198; Nov. 11.
Rectifier, Mercury-vapor. J. Kubler and B. Kobel. 1,781,286; Nov. 11.
Reflector, Compound. M. W. Caughlan. 1,781,436; Nov. 11.
Refrigerating apparatus. J. R. Fehr. 1,781,003; Nov. 11.
Refrigerating apparatus. J. R. Replogle. 1,781,193; Nov. 11.
Refrigerating machine, Electrically-actuated. E. Rüegger. 1,781,082; Nov. 11.
Refrigeration. J. J. Brown. 1,781,536; Nov. 11.
Refrigeration. W. H. Carrier. 1,781,051; Nov. 11.
Refrigeration. A. Einstein and L. Szilard. 1,781,541; Nov. 11.
Register: *See*—
Fare register.
Registers, Coin-controlled drive for fare. H. E. Trojahn. 1,781,353; Nov. 11.

Reproducing device. E. G. Seibert. 1,781,605; Nov. 11.
Revolving table. A. Kelpp. 1,781,015; Nov. 11.
Ridge splitter. J. A. Smethers and W. Elliott. 1,781,670; Nov. 11.
Ring: *See*—
Bung ring. Piston ring.
Ring-rolling machine, Universal. J. H. Taylor. 1,781,140; Nov. 11.
Rod or like article. A. M. Thomson. Des. 82,529–30; Nov. 11.
Roofing roll. H. Kielberg. 1,781,016; Nov. 11.
Rubber and other substances, Uniting. L. B. Sebrell. 1,781,649; Nov. 11.
Rubber, Manufacture of. W. A. Boughton. 1,781,492; Nov. 11.
Rubber or similar material. J. D. Berwick. Des. 82,475; Nov. 11.
Rubber, Preserving. J. Teppema. 1,781,306; Nov. 11.
Safety attachment for cottonseed linters. P. Honeycutt. 1,781,061; Nov. 11.
Sand-drying apparatus. R. Tuck. 1,781,484; Nov. 11.
Sandal. R. Monsch. Des. 82,514; Nov. 11.
Sanding device for motor vehicles. W. C. and W. Martin. 1,781,120; Nov. 11.
Sawmill carriages, Device for controlling the travel of tong dogs for. E. A. Ferris. 1,781,220; Nov. 11.
Sawmill carriages, Differential truck for. E. A. Ferris. 1,781,221; Nov. 11.
Scoop, Oyen. H. L. Fischacher. 1,781,635; Nov. 11.
Screen: *See*—
Water screen. Window screen.
Screen and sash mounting, Combination. E. W. Cummings. 1,781,272; Nov. 11.
Screening materials, Apparatus for. M. P. Reynolds. 1,781,526; Nov. 11.
Screw driver. E. Mueller. 1,781,470; Nov. 11.
Seal. E. H. McGee. 1,781,029; Nov. 11.
Seal, Journal-bearing. C. C. Spreen. 1,781,201; Nov. 11.
Seat cover, Automobile. B. M. Russell. 1,781,034; Nov. 11.
Securing together two intersecting strands. T. Gore. 1,781,458; Nov. 11.
Seed pan. J. F. Shelton. 1,780,985; Nov. 11.
Separator: *See*—
Grain separator. Tar separator.
Sewing machines, Stitch-forming mechanism for. W. L. Barron. 1,781,427; Nov. 11.
Shackle. A. C. Boschke and E. W. Black. 1,781,627; Nov. 11.
Shade of a lighting fixture or article of similar nature, Glass. H. Bohl. Des. 82,477–8; Nov. 11.
Shade, Window. E. Reukauf, jr. 1,781,557; Nov. 11.
Shaft for golf clubs and the like. R. A. Link. 1,781,116; Nov. 11.
Shield, Glare. P. Groenenstein. 1,781,545; Nov. 11.
Shingle, Roofing. W. A. Harris. Re17,862; Nov. 11.
Ship's fender. C. T. Lyons. 1,781,403; Nov. 11.
Shock absorber. R. F. Peo. 1,781,127; Nov. 11.
Shock absorber. C. F. Reagan. 1,781,341; Nov. 11.
Shoe box, Baby's. B. Schubart. Des. 82,523–4; Nov. 11.
Shoe construction. S. L. Marcus. 1,781,118; Nov. 11.
Shoe construction. G. A. Schroeter. 1,781,197; Nov. 11.
Shoe sole. L. M. Oakley. Des. 82,516; Nov. 11.
Shore, Adjustable. H. P. Jessen. 1,781,063; Nov. 11.
Sign, Advertising. W. Intemann. 1,781,283; Nov. 11.
Signboards, Panel construction for. J. P. Speck. 1,781,558; Nov. 11.
Sign construction. H. C. Dammeter. 1,781,277; Nov. 11.
Sign, Electrical aerial advertising. R. Rohlfs. 1,781,081; Nov. 11.
Sign, Illuminated number. W. F. Kiefer. 1,781,585; Nov. 11.
Sign, Street. M. R. Leahy and M. J. Phelan. 1,781,020; Nov. 11.
Signal for automobiles. S. Mack. 1,781,184; Nov. 11.
Signaling. L. A. Briggs. 1,781,361; Nov. 11.
Signaling and controlling trains according to the position of track switches, Automatically. H. Karl. 1,781,284; Nov. 11.
Signaling system. C. W. Nessell. 1,781,519–20; Nov. 11.
Signaling system, Radio. A. Bailey. 1,780,963; Nov. 11.
Signaling system, Radio. A. Bailey and S. W. Dean. 1,780,962; Nov. 11.
Sling shot and bow, Combination. E. S. Smith. 1,781,530; Nov. 11.
Smoker's article. J. S. McClees. 1,781,553; Nov. 11.
Snowplow. J. B. Hall. 1,781,578; Nov. 11.
Snubber and spring suspension, Vehicle. R. B. Fageol. 1,781,631; Nov. 11.
Socket. M. B. Grout. 1,781,384; Nov. 11.
Socket, Adjustable lamp. H. W. Jones. 1,781,064; Nov. 11.
Socket, Lamp. J. R. Carlson. 1,781,663; Nov. 11.
Sound amplifier. T. Lindenberg. 1,781,465; Nov. 11.
Sound recorder and reproducer, Electrodynamic. B. E. Eisenhour. 1,781,376; Nov. 11.
Sound-reproducing apparatus. H. C. Bradshaw and M. J. De Forest. 1,780,899; Nov. 11.
Sounds, Method of and apparatus for recording and reproducing. B. Kwartin. 1,781,550; Nov. 11.
Spindle device, Slip. A. A. Herzberg and H. O. Schultz. 1,781,109; Nov. 11.
Spinning and twisting machine. J. J. Keyser. 1,781,584; Nov. 11.
Spinning machine, Artificial-silk-. P. Hillebrand. 1,781,231; Nov. 11.
Splice bar, Stress-balanced. B. G. Braine. 1,781,432; Nov. 11.
Splint, Surgical. T. S. Wilkes. 1,780,959; Nov. 11.
Spoon or similar article. G. N. Allen and E. H. Kreps. Des. 82,472; Nov. 11.
Sport jumping apparatus. A. F. Godefroy. 1,781,506; Nov. 11.
Stacker. P. B. Johnson. 1,780,925; Nov. 11.
Stake, Tent. R. A. Taylor. 1,781,350; Nov. 11.
Steam boiler. G. W. Elmwall. 1,781,057; Nov. 11.
Steam distillation, Process and apparatus for. E. H. Leslie and E. M. Baker. 1,781,977; Nov. 11.
Steam engine. J. L. Mobun. 1,781,407; Nov. 11.
Steam generator. E. W. Strom. 1,781,653; Nov. 11.
Stencil. A. J. Walker. 1,781,258; Nov. 11.
Stoker for forced-draft furnaces, Mechanical. H. E. Witz. 1,781,487; Nov. 11.
Storage battery, Alkaline. J. F. Monnot. 1,780,935; Nov. 11.
Stoves and the like, Drawer construction in. G. E. Pickup. 1,781,524; Nov. 11.
Strap: *See*—
Metallic strap.
Strap or toggle, Grip. C. P. Schlegel. 1,781,478; Nov. 11.
Stretcher, Curtain. C. G. Carlson. 1,780,995; Nov. 11.
Strips, Cold rolling and coiling. H. M. Naugle and A. J. Townsend. 1,781,123; Nov. 11.
Submarine and auxiliary boat therefor. E. J. Shoemaker. 1,781,134; Nov. 11.
Suit, Bathing. G. W. Cowdrey. 1,781,271; Nov. 11.
Supercharger for internal-combustion engine. W. M. Zaikowsky. 1,781,147; Nov. 11.
Superheater-unit-testing device. G. W. Carrigan. 1,781,494; Nov. 11.
Support and curtain-rod bracket, Combined valance board. J. M. Wintrob. 1,781,262; Nov. 11.
Support, Buckle. M. J. Keevers. 1,781,014; Nov. 11.
Support, Counter-partition. E. Morris and A. Vanderveld. 1,781,408; Nov. 11.
Support, Gutter. D. N. Skinner. 1,781,085; Nov. 11.
Support, Light. G. Denecke. 1,781,372; Nov. 11.
Support, Plant. W. V. Brooks. 1,781,316; Nov. 11.
Support, Rail. B. J. Schwendt. 1,781,251; Nov. 11.
Support, Turntable. H. H. Talboys. 1,781,348; Nov. 11.
Supporting device, Individual-pan-. J. H. Elder. 1,781,056; Nov. 11.
Surveying instrument. F. Mihalyi. 1,781,667; Nov. 11.
Suspending hook. C. Neidhammer. 1,781,072; Nov. 11.
Sweater, Knitted. A. M. Lowenthal. 1,781,647; Nov. 11.
Switch: *See*—
Electric switch. Thermostatic switch.
Electrical switch.
Switch-operating mechanism, Electric-. L. S. Walle. 1,781,561; Nov. 11.
Synchronizing system. L. J. Wolf. 1,781,263; Nov. 11.
Table: *See*—
Folding table. Revolving table.
Table. G. H. Angert. 1,781,043; Nov. 11.
Table construction. J. E. Wood. 1,781,423; Nov. 11.
Table contact. J. Schneemann. 1,781,528; Nov. 11.
Table top, Extension. F. Rygl. 1,781,602; Nov. 11.
Tailoring. M. Héliot. 1,781,580; Nov. 11.
Talking machine. E. N. Waterworth. 1,781,617; Nov. 11.
Tanks, Antifraud means for storage. C. F. Bertschinger. 1,781,534; Nov. 11.
Tanning agent. A. Schmidt. 1,780,983; Nov. 11.
Tapping attachment. H. G. Procunier. 1,781,192; Nov. 11.
Tar separator. G. W. Watts. 1,781,618; Nov. 11.
Telephone conversations, Recording. N. H. Holland. 1,780,919; Nov. 11.
Telephone-exchange system. A. E. Hague. 1,781,385; Nov. 11.
Telephone system, Automatic. M. Tchoubritch. 1,781,609; Nov. 11.
Telephone system, Automatic toll switching. W. W. Carpenter and R. E. Hersey. 1,780,906; Nov. 11.
Television or like system and apparatus. J. L. Baird. 1,781,210; Nov. 11.
Temperature-responsive device. L. J. J. B. Chéneau. 1,781,630; Nov. 11.
Template for assembling strips of tire-chain material. C. J. Burkley and E. G. Kimmich. 1,781,651; Nov. 11.
Tenter clip. W. A. Stelling. 1,781,138; Nov. 11.
Testing materials, Method and apparatus for use in. R. Esnault-Pelterie. 1,781,002; Nov. 11.
Testing system. B. G. Dunham. 1,780,910; Nov. 11.
Testing system. H. W. O'Neill. 1,780,937; Nov. 11.
Textile fabric. L. Biva. Des. 82,476; Nov. 11.
Textile fabric. H. Maurus. Des. 82,511; Nov. 11.
Textile fabrics, Treating. A. Milhomme. 1,781,296; Nov. 11.
Textile products with reduced luster from viscose, Preparing artificial. T. Koch. 1,780,018; Nov. 11.
Thermal plant. J. D. Houston. 1,781,062; Nov. 11.
Thermostat. E. J. Levy. 1,781,287; Nov. 11.
Thermostatic switch. E. J. Levy. 1,781,288; Nov. 11.
Tie plate and key. J. A. McGrew. 1,781,122; Nov. 11.
Timing. C. K. Woodbridge. 1,781,041; Nov. 11.
Tipping machine. W. H. Harrison, jr. 1,780,916; Nov. 11.
Tire, Pneumatic. R. E. Jenkinson. 1,781,657; Nov. 11.
Tire trimmer, Bicycle-. A. R. Krause. 1,781,398; Nov. 11.
Tool, Renewable head. J. G. Salazar. 1,781,344; Nov. 11.

Tool, Valve-reaming. G. E. Moen. 1,781,338; Nov. 11.
Tool, Well-drilling. C. E. Brinton. 1,781,049; Nov. 11.
Tooth, Artificial porcelain-root. J. H. Moyer. 1,780,979; Nov. 11.
Torsion meter. L. G. P. Thring. 1,781,560; Nov. 11.
Toy. E. P. Lehmann and K. Ruppin. 1,781,333; Nov. 11.
Toy dog team and sled. J. E. Davis. Des. 82,489; Nov. 11.
Toy, Electrical. L. Caruso. 1,781,537; Nov. 11.
Toy, Figure wheeled. F. M. Mulligan. 1,781,471; Nov. 11.
Toy, Sparkler. J. E. Maikin. 1,781,516; Nov. 11.
Track jack. T. H. Talboys. 1,780,989; Nov. 11.
Track sander. E. J. Gilligan and A. H. McLean. 1,781,637; Nov. 11.
Traction wheel, Arjustable disappearing-lug. V. C. Huenemann. 1,781,461; Nov. 11.
Tractor. J. A. Wright. 1,781,206; Nov. 11.
Tractor, Track-laying. R. H. White. 1,781,486; Nov. 11.
Tractor trailer. C. H. Land. 1,781,399; Nov. 11.
Train-annunciating apparatus. P. H. Crago. 1,781,497; Nov. 11.
Transformer, High-frequency differential. M. Vos. 1,781,308; Nov. 11.
Trap: *See*—
Animal trap.
Tread applier. H. T. Kraft. 1,781,285; Nov. 11.
Triaryl phosphates, Purification of. W. Gibson and C. R. Henshaw. 1,781,225; Nov. 11.
Trimmer: *See*—
Tire trimmer.
Trimmers, Straightedge for wall-paper. F. E. Edgren. 1,781,499; Nov. 11.
Trolley, Crane. A. E. Hogrebe. 1,781,281; Nov. 11.
Truck body. D. B. Younghlood. 1,781,208; Nov. 11.
Truck bolster. H. C. Dreibuss and G. S. Chiles. 1,781,106; Nov. 11.
Truck, Crawling traction. B. S. Ferguson. 1,781,170; Nov. 11.
Truck for transporting cementitious materials. O. T. and O. J. Graham. 1,780,973; Nov. 11.
Tube: *See*—
Circulating tube.
Tuning fork, Electrical. F. Holweck. 1,781,513; Nov. 11.
Turbine. S. Hackenberg. 1,781,059; Nov. 11.
Tying machine, Wire-. T. J. King, jr. 1,781,181; Nov. 11.
Typewriter. E. H. Moyle. 1,781,071; Nov. 11.
Typewriter attachment. J. H. Barton. 1,781,312; Nov. 11.
Typewriters, Copyholder attachment for. L. T. Mathews. 1,781,552; Nov. 11.
Typewriting machine. C. C. Bridwell. 1,781,629; Nov. 11.
Typewriting machine. G. O. Degener. 1,781,570–1; Nov. 11.
Typewriting machine. G. F. Handley. 1,781,579; Nov. 11.
Umbrella. H. Schröder. 1,780,946; Nov. 11.
Umbrella, Collapsible. M. Schwartz. 1,781,479; Nov. 11.
Uncoupling device. C. W. Booth. 1,781,491; Nov. 11.
Urn, Coffee. V. D. Carroll. 1,780,996; Nov. 11.
Valve. H. F. Gilg. 1,781,224; Nov. 11.
Valve and bushing construction, Piston. S. S. Riegel. 1,781,342; Nov. 11.
Valve, Engine. J. H. Grube. 1,781,176; Nov. 11.
Valve for grease lubricating systems, Regulating. J. F. Culp. 1,781,539; Nov. 11.
Valve for rock drills. E. B. Lear. 1,781,021; Nov. 11.
Valve for steam locomotives, Automatic drifting. A. C. Beckwith and F. B. Farnsworth. 1,780,964; Nov. 11.
Valve, Hydraulically-operated tank. A. Davis, jr. 1,781,369; Nov. 11.
Valve lifter. C. E. Negley. 1,781,187; Nov. 11.
Valve mechanism. H. L. Dardelet. 1,780,999; Nov. 11.
Valve mechanism. W. E. Hoke. 1,781,011; Nov. 11.
Valve, Pressure-actuated. A. Campula. 1,781,366; Nov. 11.
Valve, Pressure-regulating. C. H. Dockson. 1,781,054; Nov. 11.
Valve structure, Thermostat. J. H. Grayson. 1,781,328; Nov. 11.
Valve tone throat. C. H. Larsson. 1,781,402; Nov. 11.
Vanity box. W. A. Goertz. Des. 82,493; Nov. 11.
Vapor-supplying attachment. P. F. West. 1,781,356; Nov. 11.
Vegetable substances and products of organic character, Dehydrating. B. J. Owen. 1,781,473; Nov. 11.
Vehicle, Automotive. E. H. Delling. 1,781,322; Nov. 11.
Vehicle body. E. I. Garfield. 1,781,380; Nov. 11.
Vehicle construction. H. Ford. 1,781,503; Nov. 11.
Vehicle control apparatus, Motor-. J. L. Brownell. 1,781,099; Nov. 11.
Vehicle, Motor. H. C. Elliott. 1,781,500; Nov. 11.
Vehicle, Track. H. Liechty. 1,781,334; Nov. 11.
Ventilator: *See*—
Automobile ventilator. Crank-case ventilator.
Ventilator. J. Stroble. 1,781,608; Nov. 11.
Vibratory system. A. L. Thuras. 1,781,351; Nov. 11.
Viscosimeter. E. M. Symmes. 1,780,952; Nov. 11.
Wall mounting for a hand telephone. D. H. King and H. T. Martin. Des. 82,505; Nov. 11.
Washer: *See*—
Golf-ball washer. Lock washer.
Washer. J. A. Sexauer. 1,781,129; Nov. 11.
Washing machine, Cylinder. J. R. Clover. 1,781,217; Nov. 11.
Waste spun or woven textile material, Treatment of. A. L. Burlin. 1,781,317; Nov. 11.
Water-power wheel. J. A. Burroughs. 1,780,901; Nov. 11.
Water purification. M. Brandt. 1,781,314; Nov. 11.
Water screen, Endless sectional. F. P. Gary. 1,781,223; Nov. 11.
Weather strip. J. A. Goellner. 1,781,382; Nov. 11.
Weather strip, Metal. A. M. Lane. 1,781,400; Nov. 11.
Weighing apparatus. L. Gandriaut. 1,781,575; Nov. 11.
Welding clamping device. L. H. Hoffer. 1,781,548; Nov. 11.
Welds on bended bodies, Securing of. A. Lützow. 1,780,978; Nov. 11.
Wheel: *See*—
Disk wheel. Water-power wheel.
Traction wheel.
Wheel. C. J. Hug. 1,780,923; Nov. 11.
Wheel assembly. B. Darrow. 1,781,273; Nov. 11.
Whirl burner. F. Lilge. 1,781,236; Nov. 11.
Window screen. M. E. Stern. 1,781,202; Nov. 11.
Window screen, Adjustable. G. J. Corporon. 1,781,654; Nov. 11.
Window, Screened. A. M. Lane. 1,781,401; Nov. 11.
Windshield-cleaner motor. J. L. Nilson and J. F. Prince. 1,781,190; Nov. 11.
Wing for aircraft. E. B. Carns. 1,781,159; Nov. 11.
Wire puller. L. H. Williams. 1,781,622; Nov. 11.
Woodworking machinery. A. Benedetto. 1,781,429; Nov. 11.
Wool, Treatment of. L. B. Smith and C. E. Ruby. 1,781,415; Nov. 11.
Zero-setting device. L. P. Crosman. 1,781,320; Nov. 11.

CLASSIFICATION OF PATENTS

ISSUED NOVEMBER 11, 1930

NOTE.—First number = class, second number = subclass, third number = patent number

R. Des. 17, 863
1— 56: 1,781,476
2— 14: 1,781,067
67: 1,781,271
73: 1,781,590
90: 1,781,647
153: 1,781,377
245: 1,781,014
4— 166: 1,780,968
173: 1,781,325
5— 168: 1,781,429
8— 2: 1,781,415
6: 1,780,981
19: 1,781,391
9— 17: 1,780,986
12— 46: 1,780,990
15— 20: 1,781,142
21: 1,781,113
120: 1,781,237
229: 1,781,460
1,781,481
16— 128: 1,781,185
17— 43: 1,781,301
18— 2: 1,781,651
1,781,665
8: 1,781,231
14: 1,780,948
38: 1,781,393
42: 1,781,658
50: 1,781,306
51: 1,781,296
53: 1,781,492
59: 1,781,649
19— 66: 1,781,317
72: 1,781,343
164: 1,781,061
20— 53: 1,781,272
69: 1,781,382
22— 25: 1,781,451
45: 1,781,126
69: 1,781,168
139: 1,781,392
200: 1,781,098
1,781,143
23— 4: 1,781,664
24— 18: 1,781,243
23: 1,781,029
71: 1,781,101
81: 1,781,639
123: 1,781,458
129: 1,781,573
136: 1,781,080
137: 1,781,031
157: 1,781,591
197: 1,781,078
205: R. 17,865
208: 1,781,431
25— 131: 1,781,601
26— 62: 1,781,138
27— 30: 1,781,625
29— 76: 1,781,150
84: 1,780,982
1,781,355
86.3: 1,781,187
148.4: 1,781,241
30— 12: 1,780,934
1,780,949
1,780,951
31— 20: 1,781,075
48: 1,781,373
32— 9: 1,780,979
10: 1,781,508
33— 73: 1,781,666
1,781,667
107: 1,781,499
185: 1,781,634
34— 24: 1,781,079
1,781,473
34: 1,781,484
35— 12: 1,781,047
36— 37: 1,780,997
58.5: 1,781,197
76: 1,781,118
37— 43: 1,781,578
40— 10: 1,781,139
23: 1,781,070
33: 1,781,575
40— 40: 1,781,596
68: 1,781,055
1,781,525
125: 1,781,445
1,781,558
1,781,642
127: 1,781,081
128: 1,781,277
131: 1,781,020
132: 1,781,282
1,781,585
135: 1,781,283
41— 22: 1,781,313
43— 24: 1,781,569
48: 1,781,598
81: 1,781,163
44— 6: 1,781,102
1,781,103
46: 1,780,920
45— 9: 1,781,602
24: 1,780,995
1,781,177
26: 1,781,015
75: 1,781,423
112: 1,781,043
116: 1,781,562
46— 14: 1,781,516
37: 1,781,333
40: 1,781,307
45: 1,781,471
47— 31: 1,780,950
47: 1,781,316
49: 1,781,004
48— 176: 1,781,256
180: R. 17,869
49— 9: 1,781,565
17: 1,781,452
18: 1,781,233
55: 1,781,340
81.5: 1,781,084
50— 10: 1,781,054
51— 29: 1,781,417
109: 1,781,226
52— 1: 1,781,214
5: 1,780,911
53— 1: 1,781,056
3: 1,780,996
6: 1,781,302
7: 1,781,411
55— 29: 1,781,459
83: 1,781,171
1,781,428
56— 359: 1,781,332
60— 67: 1,781,368
95: 1,781,107
62— 1: 1,781,048
95: 1,780,930
1,781,003
1,781,193
111: 1,780,980
116: 1,781,536
119.5: 1,781,541
141: 1,781,151
178: 1,781,051
63— 11: 1,781,379
64— 8: 1,781,321
96: 1,781,409
99: 1,781,173
65— 15: 1,780,957
66— 75: 1,780,975
167: 1,780,909
172: 1,781,196
68— 9: 1,781,482
18: 1,781,217
70— 14: 1,781,468
53: 1,781,510
122: 1,780,994
72— 37: 1,781,234
39: 1,781,586
101: 1,781,117
116: 1,781,012
128: 1,780,902
73— 37: 1,781,466
51: 1,781,494
54: 1,781,030
74— 1: 1,781,474
5: 1,781,212
74— 5: 1,781,246
7: R. 17,858
14: 1,780,933
1,781,069
1,781,130
1,781,131
1,781,132
1,781,133
1,781,347
29: 1,781,418
36: 1,781,083
38: 1,780,947
39: 1,780,898
1,781,156
54: 1,781,349
1,781,480
58: 1,781,270
59: 1,781,192
101: 1,781,275
108: 1,781,037
1,781,207
109: 1,781,183
75— 1: 1,781,527
22.5: 1,781,490
76— 36: 1,781,626
77— 24: 1,781,109
33: 1,781,274
78— 13: 1,781,397
35: 1,781,038
80— 5: 1,781,140
60: 1,781,123
82— 9: 1,781,228
1,781,229
83— 9: 1,780,915
26: 1,781,164
45: 1,781,572
62: 1,781,475
73: 1,780,932
1,780,940
1,780,956
1,780,973
1,780,988
1,781,097
1,781,255
1,781,549
84— 184: 1,781,216
376: 1,781,394
409: 1,781,513
471: 1,780,918
87— 9: 1,781,167
1,781,607
88— 1: 1,781,496
16: 1,781,501
17: 1,780,945
24: 1,780,969
1,781,044
1,781,053
89— 37: 1,781,175
90— 12.5: 1,781,338
33: 1,781,114
91— 12.2: 1,781,603
92— 7: 1,781,447
11: 1,780,943
1,781,449
21: 1,781,645
1,781,668
94— 31: 1,780,904
96— 15: 1,781,135
97— 42: 1,781,157
47: 1,780,900
53: 1,780,955
243: 1,781,670
98— 2: 1,780,903
57: 1,781,608
99— 11: 1,781,154
1,781,249
1,781,672
16: 1,781,636
100— 47: 1,781,186
48: 1,780,961
1,781,250
101— 32: 1,781,367
109: 1,781,620
126: 1,781,209
127: 1,781,258
101— 336: 1,781,395
420: 1,781,422
102— 24: 1,781,621
39: 1,781,556
103— 5: 1,781,416
37: 1,781,404
100: 1,781,065
126: 1,781,619
104— 7: 1,780,989
61: 1,781,464
88: 1,781,655
105— 44: 1,781,582
49: 1,781,537
168: 1,781,334
223: 1,781,213
230: 1,781,106
1,781,253
280: 1,781,454
354: 1,781,478
369: 1,781,318
375: 1,781,109
106— 12: R. 17,867
22: 1,781,204
25: 1,781,232
27: 1,781,267
31: 1,781,105
40: 1,781,018
107— 3: 1,781,345
8: 1,781,339
9: 1,781,546
108— 5: 1,781,483
7: R. 17,862
23: 1,781,517
29: 1,781,085
109— 2: 1,781,488
110— 40: 1,781,487
72: 1,780,942
73: 1,781,616
112— 228: 1,781,427
113— 99: 1,781,419
112: 1,780,978
114— 16.7: 1,781,134
56: 1,780,970
66.5: 1,780,998
219: 1,781,403
115— 37: 1,781,656
116— 52: 1,781,522
54: 1,781,184
106: 1,781,245
114: 1,781,512
118— 41: 1,781,584
119— 35: 1,781,336
120— 29: 1,781,552
46: 1,781,504
121— 2: 1,781,563
19: 1,781,021
48: 1,781,189
1,781,190
116: 1,781,559
119: 1,781,068
134: 1,781,407
137: 1,780,964
193: 1,781,342
122— 32: 1,781,057
99: 1,781,319
122: 1,781,531
182: 1,781,532
235: 1,781,269
1,781,310
492: 1,781,568
498: R. 17,864
123— 1: 1,781,042
1,781,146
1,781,147
23: 1,781,485
25: 1,781,356
31: 1,781,327
33: 1,781,039
42: 1,781,589
47: 1,781,009
52: 1,781,090
1,781,434
58: 1,781,008
59: 1,781,148
65: 1,781,194
90: 1,780,999
1,781,011
123— 119: 1,781,405
188: 1,781,176
124— 2: 1,781,530
126— 116: 1,780,984
181: 1,781,331
339: 1,781,524
128— 3: 1,780,912
87: 1,780,959
317: 1,781,564
129— 35: 1,781,022
1,781,023
130— 23: 1,781,472
27: 1,781,198
131— 10: 1,781,566
39: 1,781,239
1,781,240
51: 1,780,936
1,781,553
132— 50: 1,781,324
78.5: 1,781,410
82: 1,781,595
134— 1: 1,781,435
39: 1,781,648
50: 1,781,019
135— 15: 1,781,350
26: 1,781,479
46: 1,780,946
136— 28: 1,780,935
80: 1,781,640
162: 1,781,005
182: 1,781,597
137— 13: 1,781,280
53: 1,781,027
1,781,227
111: R. 17,866
156.5: 1,781,309
160: 1,781,001
138— 9: 1,780,972
139— 243: 1,781,514
140— 88: 1,781,650
93: 1,781,181
98: 1,781,383
141— 9: 1,781,052
143— 105: 1,781,221
125: 1,781,220
144— 87: 1,781,429
145— 50: 1,781,470
146— 7: 1,781,215
189: 1,780,914
202: 1,780,924
148— 6.5: 1,781,507
21.8: 1,781,119
149— 6: 1,780,983
151— 36: 1,781,660
152— 11.5: 1,781,121
14: 1,780,967
26: R. 17,859
R. 17,860
153— 16: 1,781,180
21: 1,780,926
32: 1,781,567
46: 1,781,592
154— 2: 1,781,370
10: 1,781,285
14: 1,781,657
20: 1,781,378
42: 1,781,200
155— 174: 1,781,600
181: 1,781,086
182: 1,781,034
156— 10: 1,781,557
13: 1,781,262
28: 1,781,646
31: 1,780,913
39: 1,781,202
1,781,401
1,781,654
44: 1,781,495
158— 2: 1,780,896
28: 1,780,971
159— 1: 1,781,058
2: 1,781,498
8: 1,781,297
36: 1,780,928
65: 1,781,400
191— 55: 1,781,323
194— 6: 1,781,353
196— 3: 1,781,076
169— 11: 1,781,026
14: 1,781,295
1,781,298
1,781,299
1,781,300
15: 1,781,292
1,781,293
1,781,294
170— 173: 1,780,901
171— 123: 1,781,538
321: 1,781,551
172— 36: 1,781,082
275: 1,781,577
173— 13: 1,781,092
1,781,093
1,781,124
266: 1,781,521
328: 1,781,384
338: 1,781,528
353: 1,781,144
1,781,671
354: 1,781,663
174— 89: 1,781,362
175— 41: 1,780,917
1,781,033
183: 1,781,593
264: 1,781,260
1,781,555
318: 1,781,641
356: 1,781,308
375: 1,781,561
1,781,535
314: 1,781,096
351: 1,781,153
353: 1,781,519
1,781,520
178— 6: 1,781,210
44: 1,780,966
1,781,396
1,781,469
45: 1,780,953
51: 1,781,361
179— 6: 1,780,919
9: 1,781,385
18: 1,781,609
27: 1,780,906
82: 1,780,921
100.3: 1,781,550
100.41: 1,781,376
171: 1,780,899
175: 1,780,910
1,780,937
180— 42: 1,781,322
54: 1,781,354
64: 1,781,503
69: 1,781,500
82: 1,781,099
181— 27: 1,781,465
1,781,489
31: 1,781,605
32: 1,781,387
183— 31: 1,781,638
42: 1,781,352
54: 1,781,430
71: 1,781,254
85: 1,781,618
184— 1.5: 1,781,523
6: 1,781,110
1,781,149
13: 1,780,958
103: 1,781,252
186— 20: 1,781,424
187— 9: 1,781,104
188— 10: 1,781,437
30: 1,780,907
72: 1,781,443
76: 1,781,112
89: 1,781,127
259: 1,781,074
189— 1: 1,781,058
2: 1,781,498
8: 1,781,297
36: 1,780,928
65: 1,781,400
191— 55: 1,781,323
194— 6: 1,781,353
196— 3: 1,781,076

196—	5:	1,781,257	212—	69:	1,781,348	230—	153:	1,781,073	244—	31:	1,781,266	259—	131:	1,781,381	285—	68:	1,781,543
		1,781,632		131:	1,781,281	232—	45:	1,781,264	246—	124:	1,781,497	260—	37:	1,781,238		122:	1,781,581
	13:	1,781,421	213—	166:	1,781,491	234—	5.5:	1,781,588		176:	1,781,284		45:	1,781,248		123:	1,781,222
	46:	1,781,420	214—	17:	1,781,425		23:	1,781,013		228:	1,780,939		60:	1,780,976		134:	1,781,032
	49:	1,781,128		18:	1,781,040	235—	32:	1,781,462	247—	25:	1,781,199		98:	1,781,225		146:	1,781,091
	59:	1,781,390		52:	1,781,606		134:	1,781,179		39:	1,781,574		103:	1,781,050	286—	11:	1,781,201
	96:	1,781,388		58:	1,781,259		144:	1,781,320	248—	2:	1,781,063	261—	9:	1,781,515	287—	20:	1,781,643
	139:	1,780,977		67:	1,781,346	236—	14:	1,781,174		16:	1,781,161		41:	1,781,087	288—	1:	1,781,365
	142:	1,781,444		120:	1,781,211		16:	1,780,960		31:	1,781,145			1,781,502	291—	23:	1,781,120
197—	6.4:	1,781,477			1,781,644		48:	1,781,328		64:	1,781,072			1,781,576		33:	1,781,637
	17:	1,781,570		141:	1,780,925		68:	1,781,453	250—	2:	1,781,263		46:	1,781,276	292—	196:	1,781,505
		1,781,571	215—	6:	1,781,094	238—	167:	1,781,433		11:	1,780,962		62:	1,781,218		202:	1,781,115
	103:	1,781,071	217—	125:	1,781,611		188:	1,781,432			1,780,963		75:	1,781,066		215:	1,781,261
	127:	1,781,629	219—	17:	1,781,548		243:	1,781,436		20:	1,780,987	265—	11:	1,780,952		298:	1,780,941
	156:	1,781,312		19:	1,781,669		244:	1,781,438			1,781,268		13:	1,781,615		322:	1,781,540
	165:	1,781,579		24:	1,781,244		281:	1,781,251			1,781,303		16:	1,781,002		332:	1,781,172
200—	8:	1,781,178		32:	1,781,440		304:	1,781,122		27.5:	1,781,286		25:	1,781,560	293—	55:	1,780,908
	52:	1,781,315		34:	R. 17,857		330:	1,781,191			1,781,305	266—	34:	1,781,025			1,780,974
	83:	1,781,289		37:	1,781,158	240—	1:	1,781,326			1,781,330	267—	16:	1,781,341	294—	26:	1,781,077
	116:	1,781,441		38:	1,781,412		4:	1,780,938		31:	1,781,068		48:	1,781,631		32:	1,781,635
	140:	1,781,287			1,781,653		8.16:	1,781,242		33:	1,781,046		52:	1,781,406		104:	1,781,335
		1,871,630		39:	1,781,542		10.5:	1,781,064		40:	1,781,414		54:	1,781,627		112:	1,781,518
	146:	1,781,288	220—	39:	1,781,166		25:	1,781,544	251—	27:	1,781,129	268—	35:	1,781,594	296—	35:	1,781,380
202—	5:	1,781,659		86:	1,781,534		41:	1,781,436			1,781,224	270—	5:	1,781,017		36:	1,781,208
	8:	1,781,614		94:	1,781,583		61:	1,781,311		77:	1,781,539		58:	1,780,916		44:	1,781,304
	117:	1,781,613	221—	24:	1,780,929		62:	1,781,137		123:	1,781,366	271—	28:	R. 17,861		97:	1,781,545
	248:	1,780,992		47:	1,781,554		81:	1,781,372	252—	2:	1,781,265		44:	1,781,007	299—	17:	1,781,599
204—	57:	1,780,944		47.1:	1,781,045	241—	6:	1,780,931		5:	1,780,927	273—	80:	1,781,116		83:	1,780,991
206—	15.1:	1,781,247			1,781,374			1,781,673		6:	1,781,188		81:	1,781,290		84:	1,781,359
	41:	1,781,089		47.3:	1,781,604	242—	72:	1,781,547	253—	81:	1,781,059		87:	1,781,230		125:	1,781,028
		1,781,141		47.4:	1,781,493		143:	1,781,364		82:	1,781,610		101:	1,781,463	301—	6:	1,780,897
	44:	1,781,624		60:	1,781,448	244—	2:	1,781,010	254—	33:	1,781,136		131:	1,781,529		10:	1,781,273
	46:	1,781,360	233—	17:	1,781,580			1,781,291		36:	1,781,329	274—	2:	1,781,402		12:	1,780,923
	59:	1,781,016		61:	1,781,628			1,781,446		71:	1,781,622		10:	1,781,617		48:	1,781,461
208—	45:	1,781,612	224—	2:	1,781,162		3:	1,781,100		168:	1,781,125		17:	1,781,041	302—	37:	1,781,509
209—	118:	1,780,965		48:	1,781,357			1,781,506		187:	1,781,195		35:	1,781,351	305—	8:	1,781,170
	327:	1,780,985	225—	40:	1,781,035		12:	1,780,993	255—	26:	1,781,049		45:	1,781,587		9:	1,781,486
	347:	1,781,526	226—	92:	1,781,036			1,781,160		71:	R. 17,856	275—	2:	1,781,278	306—	43:	1,781,344
210—	62:	1,781,314	229—	15:	1,781,279		14:	1,781,455			1,781,413	279—	75:	1,781,442	308—	41:	1,781,235
	175:	1,781,223		68:	1,781,060		15:	1,781,182	257—	6:	1,781,303	280—	33.1:	1,781,399		88:	1,781,337
	197:	1,780,905		87:	1,781,006			1,781,371		8:	1,781,358		96.3:	1,781,205		189:	1,781,219
		1,780,954	230—	75:	1,781,375		18:	R. 17,868		9:	1,781,062		112:	1,781,206			1,781,467
	200:	1,781,652		117:	1,781,155		22:	1,781,662		24:	1,781,108	283—	1:	1,781,309		206:	1,781,450
	201:	1,781,389		134:	1,781,165		29:	1,781,633		43:	1,781,024	285—	9:	1,781,456	312—	140:	1,781,408
211—	148:	1,781,203		140:	1,781,095		31:	1,781,159		154:	1,781,511			1,781,457		189:	1,781,152

U. S. GOVERNMENT PRINTING OFFICE: 1930

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS

Acme Road Machinery Company, Frankfort, N. Y. Road-building machinery and supplies. 35,205; renewed Oct. 2, 1930.

Akron Brass Mfg. Co., The, Wooster, Ohio. Fire-hose nozzles and hose-line couplings of bronze and brass castings and forgings. 277,610; Nov. 18. Class 13.

Aktiebolaget B. A. Hjorth & Co., Stockholm, Sweden. Machines, tools, and parts thereof. 80,567; renewed Jan. 10, 1931.

Allen & Smith Company, Inc., Richmond, Va. Candy, salted peanuts, and peanut butter. 277,547; Nov. 18; Serial No. 302,664; published Sept. 2, 1930. Class 46.

American Burma Co., Seattle, Wash. Preparation for local treatment of the feet. 277,643; Nov. 18. Class 6.

American Cotton Oil Company, The, New York, N. Y., assignor to Lever Brothers Company, Cambridge, Mass. Cottonseed oils. 35,296; renewed Oct. 23, 1930.

American Cotton Oil Company, The, New York, N. Y., assignor, by mesne assignments, to Lever Brothers Company, Cambridge, Mass. Cottonseed oils. 35,435; renewed Nov. 13, 1930.

American Cotton Oil Company, The, New York, N. Y., assignor, by mesne assignments, to Lever Brothers Company, Cambridge, Mass. Cottonseed oils. 35,436–7; renewed Nov. 13, 1930.

American Cotton Oil Company, The, New York, N. Y., assignor to Lever Brothers Company, Cambridge, Mass. Cottonseed oils. 35,439; renewed Nov. 13, 1930.

American Molasses Co. of New York, The, Brooklyn and New York, N. Y. Molasses. 277,569; Nov. 18; Serial No. 302,802; published Sept. 2, 1930. Class 46.

American Swiss File & Tool Company, Elizabeth, N. J. Files and hand tools. 35,700–1; renewed Jan. 1, 1931.

American Swiss File & Tool Company, Elizabeth, N. J. Files and hand tools. 35,942; renewed Feb. 19, 1931.

Amos Bird Co., The, Boston, Mass. Eggs and egg products. 277,597; Nov. 18; Serial No. 298,879; published Sept. 2, 1930. Class 46.

Amoskeag Manufacturing Company, trustee under a declaration of trust (Massachusetts). (See Parkhill Manufacturing Company, assignor.)

Apfel, Edw. A., Co., Los Angeles, Calif. Coffee, tea, spices, etc. 277,619; Nov. 18. Class 46.

Apsley Rubber Company, assignor, by mesne assignments, to Firestone Footwear Company, Hudson, Mass. Rubber boots and shoes. 35,167; renewed Oct. 2, 1930.

Artloom Corporation, Philadelphia, Pa. Textile rugs. 277,648; Nov. 18. Class 42.

Asphalt Products Co., Inc., The, Syracuse, N. Y. Aluminum paint. 277,581; Nov. 18; Serial No. 285,006; published May 6, 1930. Class 16.

Automatic Gold Chain Co., Providence, R. I. Jewelry. 277,625; Nov. 18. Class 28.

Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Chemicals. 80,338; renewed Dec. 13, 1930.

Baker, John A., assignor to Mary L. Baker, Fort Worth, Tex. Medicinal preparation and a cream. 79,184; renewed Aug. 16, 1930.

Barclay & Barclay, assignor to Barclay & Co., New York, N. Y. Soap. 80,022; renewed Nov. 1, 1930.

Barrett Company, The, New York, N. Y. Roofing. 277,544; Nov. 18; Serial No. 301,007; published Sept. 2, 1930. Class 12.

Bear-Stewart Co., Chicago, Ill. Doughnut mixture. 277,627; Nov. 18. Class 46.

Behr, Arthur, & Co., Inc., New York, N. Y. Piece goods. 277,608; Nov. 18; Serial No. 293,024; published Jan. 14, 1930. Class 42.

Bell, S. D., Salt Lake City, Utah. Playing-card game. 277,598; Nov. 18; Serial No. 298,074; published Aug. 26, 1930. Class 22.

Bendiner & Schlesinger, assignor to Bendiner & Schlesinger, Inc., New York, N. Y. Medicine for the cure of consumption. 36,042; renewed Mar. 12, 1931.

Best, Carl L., Cleveland, Ohio. Baked goods. 277,572; Nov. 18; Serial No. 290,811; published May 20, 1930. Class 46.

Black Silk Stove Polish Works, Sterling, Ill., assignor to J. L. Prescott Company, Passaic, N. J. Iron enamel. 80,104; renewed Nov. 8, 1930.

Blair Laboratories. (See Morton Manufacturing Corporation.)

Bloch Brothers Tobacco Company, The, Wheeling, W. Va. Tobacco. 35,861; renewed Feb. 5, 1931.

Blodgett & Orswell Co., Pawtucket, R. I., assignor to W. Warren Thread Works, Westfield, Mass. Spool cotton. 81,245; renewed Mar. 21, 1931.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 277,577; Nov. 18; Serial No. 287,278; published Aug. 12, 1930. Class 42.

Böker, Heinrich & Co., Solingen, Germany. Cutlery and edge tools. 34,605; renewed May 1, 1930.

Booth's Distillery Limited, by change of name to Booth's Distilleries, Limited, London, England. Orange bitters. 79,552; renewed Sept. 20, 1930.

Bradley, Milton, Company, Springfield, Mass. Games. 277,566; Nov. 18; Serial No. 302,889; published Sept. 2, 1930. Class 22.

Brakeley, Harry H., jr., doing business as The Brakeley Canning Company, Bordentown, N. J. Canned vegetables. 277,582; Nov. 18; Serial No. 279,722; published Apr. 23, 1929. Class 46.

Brown Durrell Co., Boston, Mass. Hosiery. 79,555; renewed Sept. 20, 1930.

Bückle, George, Brooklyn, assignor to Sylvan Electric Bath, Inc., Jamaica, N. Y. Medicated bathing liquids. 35,200; renewed Oct. 2, 1930.

Bückle, George, Brooklyn, assignor to Sylvan Electric Bath, Inc., Jamaica, N. Y. Medicated bathing fluid. 35,400; renewed Nov. 13, 1930.

Bull, W. H., Medicine Company, St. Louis, Mo. Medicinal preparation. 80,703; renewed Jan. 24, 1931.

California Packing Corporation. (See Dudley, U. H., & Co., assignor.)

Carnrick, George W., assignor, by mesne assignments, to G. W. Carnrick Co., Newark, N. J. Eye lotion. 35,840; renewed Jan. 29, 1931.

Chambers, Daniel W., Matewan, W. Va. Maple syrup. 277,590; Nov. 18; Serial No. 300,709; published Sept. 2, 1930. Class 46.

Checker Cab Manufacturing Corporation, Kalamazoo, Mich. Automobiles and constructive parts thereof. 277,584; Nov. 18; Serial No. 275,256; published Oct. 8, 1929. Class 19.

Chemical Foundation, Incorporated, The. (See Badische Anilin & Soda Fabrik, assignor.)

Chemical Foundation, Incorporated, The. (See Deutsche Gold & Silber Scheide-Anstalt, assignor.)

Chemical Foundation, Incorporated, The. (See Grimme, Natalis & Co., Kommanditgesellschaft auf Aktien, assignor.)

Chemical Foundation, Incorporated, The. (See Sander, Johannes A., assignor.)

Compton, W. H., Shear Co., The, Newark, N. J. Shears. 277,622; Nov. 18. Class 23.

Cone Confection Co., Chicago, Ill. Bakery product. 277,595; Nov. 18; Serial No. 299,497; published Sept. 2, 1930. Class 46.

Continental Fruit Packing Co., The, Limited, London, England. Canned fruits and canned vegetables. 80,108–9; renewed Nov. 8, 1930.

Continental Mills, Inc., New York, N. Y. Wool, cotton, rayon, and silk knitted fabric. 277,563; Nov. 18; Serial No. 302,933; published Sept. 2, 1930. Class 42.

Cooney, Ralph S., doing business as School Service Co., New York, N. Y. Punch card. 277,600; Nov. 18; Serial No. 297,587; published Sept. 2, 1930. Class 22.

Cooperative Merchandising Bureau. (See Kirby, Block & Fischer, Inc.)

Corn Products Refining Company, Jersey City, N. J., and New York, N. Y., to Corn Products Refining Company, New York, N. Y. Laundry starch. 80,462; renewed Dec. 27, 1930.

Corn Products Refining Company, Jersey City, N. J., and New York, N. Y., to Corn Products Refining Company, New York, N. Y. Compound of corn syrup and refiner's syrup and imitation fruit jelly. 80,630; renewed Jan. 10, 1931.

Coudurier, Fructus & Descher, Lyon, France. Silk crepe in the piece, plain and fancy tinsel. 277,553; Nov. 18; Serial No. 303,801; published Sept. 2, 1930. Class 42.

Crafts, Arthur A., & Co., Boston, Mass. Milling cutters, reamers, drills, etc. 277,614; Nov. 18. Class 23.

Dassonville, Michel, Paris, France. Piece goods. 277,601; Nov. 18; Serial No. 296,637; published Sept. 2, 1930. Class 42.

Day's Tailor-D Wear, Inc. (See Shull-Day Co.)

Dean Electric Company, Elyria, Ohio, assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephones, police boxes, jack boxes, etc. 79,263; renewed Aug. 23, 1930.

Deutsche Gold & Silber Scheide-Anstalt, vormals Rössler, Frankfort-on-the-Main, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Chemical compound for purifying acetylene. 35,667; renewed Dec. 25, 1930.

Dietzgen, Eugene, Company, to Eugene Dietzgen Co., Chicago, Ill., successor. Draftmen's supplies. 81,057; renewed Feb. 28, 1931.

Dubin, Henry, doing business as Sof Products Co., Not Incorporated, Chicago, Ill. Washing crystals. 277,546; Nov. 18; Serial No. 302,673; published Aug. 26, 1930. Class 4.

Dudley, U. H., & Co., New York, N. Y., assignor, by mesne assignments, to California Packing Corporation, San Francisco, Calif. Dried or evaporated fruit. 35,530; renewed Dec. 4, 1930.

Duluth Universal Mill Company to Duluth Universal Milling Co., Duluth, Minn., successor. Wheat flour. 35,219; renewed Oct. 9, 1930.

Duluth Universal Mill Company to Duluth Universal Milling Co., Duluth, Minn., successor. Wheat flour. 35,472; renewed Nov. 20, 1930.

Duplan Silk Corporation, New York, N. Y. Fabrics of silk and rayon and mixtures thereof. 277,552; Nov. 18; Serial No. 303,803; published Sept. 2, 1930. Class 42.

Duquesne Distributing Company, Incorporated, Harmarville, Pa., by change of name to The Red Raven Corporation, Red Raven, Pa. Mineral water and nonalcoholic beverages. 35,412; renewed Nov. 13, 1930.

Eagle Liquid Gas & Oil Company, Inc., The, Cincinnati, Ohio. Oils, greases, and kerosene. 277,578; Nov. 18; Serial No. 287,124; published Dec. 3, 1929. Class 15.

Electric Compound Co. to Frederick W. Pew, Los Angeles, Calif., successor. Cleaning substances and compounds. 77,910; renewed May 17, 1930.

Elgin American Manufacturing Co., Elgin, Ill. Vanities, compact boxes, perfume containers, etc. 277,594; Nov. 18; Serial No. 299,565; published Aug. 19, 1930. Class 28.

Ellis, Wilbur D., assignor, by mesne assignments, to Valvoline Oil Company, New York, N. Y. Lubricating oils. 35,149; renewed Sept. 25, 1930.

Empire Silk Company, New York, N. Y. Silk piece goods. 277,535; Nov. 18; Serial No. 302,376; published Aug. 12, 1930. Class 42.

Empire Silk Company, New York, N. Y. Silk piece goods. 277,554; Nov. 18; Serial No. 303,711; published Sept. 2, 1930. Class 42.

Enterprise Manufacturing Company, The, Akron, Ohio. Artificial bait. 277,558; Nov. 18; Serial No. 303,370; published Aug. 26, 1930. Class 22.

Erickson, Dr. E. S., Spring Grove, Minn. Medicinal ointment. 277,630; Nov. 18. Class 6.

Eskimo Pie Corporation, Louisville, Ky. Vacuum jars for the storage of food products. 277,555; Nov. 18; Serial No. 303,599. Class 2.

Feeders Supply and Manufacturing Co., Kansas City, Mo. Stock and poultry feed. 277,626; Nov. 18. Class 46.

Firestone Footwear Company. (See Apsley Rubber Company, assignor.)

Fish, Thomas. (See Ready Tool Company, The, assignor.)

Fisher Governor Company, The, Marshalltown, Iowa. Machinery and parts thereof. 80,117; renewed Nov. 8, 1930.

Fiske & Company, Inc., Boston, Mass. Bricks. 277,542; Nov. 18; Serial No. 301,609; published Sept. 2, 1930. Class 12.

Flint, Dr., Medicine Co. (See Froatz, Frederick F.)

Foremost Fabrics Corporation, New York, N. Y. Silk piece goods. 277,551; Nov. 18; Serial No. 303,807; published Sept. 2, 1930. Class 42.

Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 277,537; Nov. 18; Serial No. 302,245; published Aug. 19, 1930. Class 42.

Franklin Baker Company, New York, N. Y. Prepared coconut. 277,604; Nov. 18; Serial No. 295,991; published Apr. 1, 1930. Class 46.

Friedman Bros. Shoe Co., assignor, by mesne assignments, to International Shoe Co., St. Louis, Mo. Boots and shoes. 35,908; renewed Feb. 19, 1931.

Froatz, Frederick F., doing business as Dr. Flint Medicine Co., New York, N. Y. Remedies for the treatment of diseases of the vagina, ovaries, and womb. 80,590; renewed Jan. 10, 1931.

General Drug Company, New York, N. Y. Headache remedies. 80,651; renewed Jan. 17, 1931.

General Drug Company, assignor to Plexo Preparations, Inc., New York, N. Y. Toilet creams, waters, and hair tonics. 80,911; renewed Feb. 14, 1931.

Gephart Manufacturing Co., Chicago, Ill. Fishing rods. 277,588; Nov. 18; Serial No. 300,869; published Aug. 12, 1930. Class 22.

Gerber & Company, Inc., New York, N. Y. Cheese. 277,650; Nov. 18. Class 46.

Gold Laboratories. (See Goldenstein, Joseph.)

Goldenstein, Joseph, doing business as Gold Laboratories, Detroit, Mich. Incense. 277,640; Nov. 18. Class 6.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Inner tubes. 277,638; Nov. 18. Class 35.

Great Atlantic and Pacific Tea Company, Jersey City, N. J., assignor to The Great American Tea Company, New York, N. Y. Teas. 80,913; renewed Feb. 14, 1931.

Greenwood Pottery Co., Trenton, N. J. Chinaware. 80,526; renewed Jan. 3, 1931.

Grimme, Natalis & Co., Kommanditgesellschaft auf Aktien, Brunswick, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Calculating machines. 80,313; renewed Dec. 6, 1930.

Gropper, M., & Sons, Inc., New York, N. Y. Agates and marbles. 277,593; Nov. 18; Serial No. 299,707; published Aug. 26, 1930. Class 22.

Haiku Fruit and Packing Company, Limited, Haiku, Maui, Hawaii, by change of name to Haiku Pineapple Company, Ltd., Haiku, Maui, Hawaii, and San Francisco, Calif. Canned pineapple. 79,906; renewed Oct. 18, 1930.

Hall China Co., East Liverpool, Ohio. Fireproof china teapots, coffeepots, etc. 277,605; Nov. 18; Serial No. 293,844; published Apr. 22, 1930. Class 30.

Handypack Drug Co. (See Ibsen, Johanna.)

Hanson, W. T., Co., Schenectady, N. Y. Laxative pills. 81,265; renewed Mar. 21, 1931.

Harris-Lipsitz Company, Dallas, Tex., and New York, N. Y., assignor to Higginbotham-Bailey-Logan Company, Dallas, Tex. Clothing. 80,917; renewed Feb. 14, 1931.

Harshaw Chemical Company, The, Cleveland, Ohio. Oxygen compounds of chromium. 277,647; Nov. 18. Class 6.

Hayes, J. W. C., doing business as McCamey Bakery, McCamey, Tex. Bread. 277,646; Nov. 18. Class 46.

Hemmeter Cigar Co., The, Bay City and Detroit, Mich. Cigars. 80,594; renewed Jan. 10, 1931.

Hemmeter Cigar Co., The, Bay City and Detroit, Mich. Cigars. 81,146; renewed Mar. 7, 1931.

Hertzel, Charles B., Sacramento, Calif. Fishing lines, fishing poles, spinners, etc. 277,579; Nov. 18; Serial No. 286,634; published Aug. 26, 1930. Class 22.

Hettrick Manufacturing Company, The, Toledo, Ohio. Portable play pools and sand boxes. 277,533; Nov. 18; Serial No. 302,396; published Aug. 26, 1930. Class 22.

Hettrick Manufacturing Company, The, Toledo, Ohio. Sails used for skating. 277,534; Nov. 18; Serial No. 302,392; published Sept. 2, 1930. Class 22.

Higginbotham-Bailey-Logan Company. (See Harris-Lipsitz Company, assignor.)

Hills Brothers Company, The, New York, N. Y. Currants. 79,909; renewed Oct. 18, 1930.

Hoffecker, J. H., Canning Company, Smyrna, Del. Canned fruits and vegetables. 80,922; renewed Feb. 14, 1931.

Hoffmann-La Roche Chemical Works, The, New York, N. Y., assignor to Hoffmann-La Roche, Inc., Nutley, N. J. Potassium guiacol sulfonate. 80,717; renewed Jan. 24, 1931.

Hoffmann-La Roche Chemical Works, The, New York, N. Y., assignor to Hoffmann-La Roche, Inc., Nutley, N. J. Medicinal tonic. 80,718; renewed Jan. 24, 1931.

Hoffmann-La Roche Chemical Works, The, New York, N. Y., assignor to Hoffmann-La Roche, Inc., Nutley, N. J. Product having antiseptical properties. 80,719; renewed Jan. 24, 1931.

Holden-Leonard Company, New York, N. Y. Worsted and woolen fabrics. 277,596; Nov. 18; Serial No. 299,123; published Aug. 19, 1930. Class 42.

Howes, S. M., Company, The, Boston, Mass. Dampers for hot-air pipes and smoke pipes. 35,482; renewed Nov. 20, 1930.

Ibsen, Johanna, doing business as Handypack Drug Co., San Diego, Calif. Medicine for the treatment of headaches, colds, etc. 277,576; Nov. 18; Serial No. 287,412; published Feb. 4, 1930. Class 6.

International Shoe Co. (See Friedman Bros. Shoe Co., assignor.)

Jansen & Pretzfeld, Inc., New York, N. Y. Silk piece goods. 277,550; Nov. 18; Serial No. 303,814; published Sept. 2, 1930. Class 42.

Johnson, Mead, & Company, Evansville, Ind. Specially-prepared dried milk. 277,565; Nov. 18; Serial No. 302,905; published Sept. 2, 1930. Class 46.

Kappa Psi, Memphis, Tenn. Fraternity pins, finger rings, bracelets, etc. 277,589; Nov. 18; Serial No. 300,796; published July 29, 1930. Class 28.

Kendall Company, The, Chicago, Ill. Corn, bunion, and callus pads. 277,545; Nov. 18; Serial No. 302,688; published Aug. 5, 1930. Class 6.

Keuffel & Esser Company, New York, N. Y., to Keuffel & Esser Company, Hoboken, N. J. Mathematical and drawing instruments. 35,513; renewed Dec. 4, 1930.

Keystone Watch Case Company, The, Philadelphia, Pa., assignor to Keystone Watch Case Corporation, Riverside, N. J. Watchcases, watches, and watch movements. 81,081; renewed Feb. 28, 1931.

King, J. B., & Co., New York, N. Y., assignor to United States Gypsum Company, Chicago, Ill. Plaster of Paris. 80,280; renewed Nov. 29, 1930.

Kirby, Block & Fischer, Inc., doing business as Cooperative Merchandising Bureau, New York, N. Y. Sheet, pillowcases, blankets, etc. 277,541; Nov. 18; Serial No. 301,946; published Aug. 26, 1930. Class 42.

Kleanheat Coal Processing Corporation, Grand Rapids, Mich. Chemical for promoting combustion. 277,628; Nov. 18. Class 6.

Kolb, Fred J., doing business as F. J. Kolb Cheese Company, Lena, Ill. Bulk cheese, lunch cheese, and package cheese. 277,571; Nov. 18; Serial No. 292,672; published Jan. 7, 1930. Class 46.

Krem-Ko Company, Chicago, Ill. Chocolated malted food drink. 277,607; Nov. 18; Serial No. 294,074; published Sept. 2, 1930. Class 46.

Kuhls, H. B. Fred, deceased, assignor to Hilema Kuhls, executrix, Brooklyn, N. Y. Plastic composition. 77,737; renewed May 3, 1930.

Lamar, Walter D., doing business as Lamar Orchards, Macon, Ga. Fresh peaches. 277,611; Nov. 18. Class 46.

Lever Brothers Company. (See American Cotton Oil Company, The, assignor.)

Lever Brothers Limited, Port Sunlight, England, assignor to Lever Brothers Company, Cambridge, Mass. Cleaning materials. 35,228; renewed Oct. 9, 1930.

Libby, McNeill & Libby, assignor to Libby, McNeill & Libby, Chicago, Ill. Packing-house products. 35,602; renewed Dec. 18, 1930.

Lund, Christian A., doing business as C. A. Lund Company, Hastings, Minn. Skis, ski poles, hockey sticks, etc. 277,642; Nov. 18. Class 22.

Lyle, Abram, & Sons, Limited, assignor, by mesne assignments, to Tate & Lyle, Limited, London, England. Syrup. 35,185; renewed Oct. 2, 1930.

M. & B. Products Co., Philadelphia, Pa. Insecticide. 277,602; Nov. 18; Serial No. 296,354; published Apr. 1, 1930. Class 6.

Majestic Silk Mills, Inc., New York, N. Y. Silk piece goods. 277,562; Nov. 18; Serial No. 302,956; published Aug. 12, 1930. Class 42.

Marblehead Lime Co., Chicago, Ill. White lime and hydrated lime. 277,606; Nov. 18; Serial No. 295,490; published May 13, 1930. Class 12.

Martin, J. B., Company, Norwich, Conn. Silk velvets in the piece and velvets in the piece. 277,591; Nov. 18; Serial No. 300,531; published Aug. 26, 1930. Class 42.

Marvlo Mills, Inc., New York, N. Y. Cotton, linen, artificial and natural silk goods, etc. 277,531; Nov. 18; Serial No. 302,438; published Aug. 12, 1930. Class 42.

McCafferty, James A., & Sons Manufacturing Company, Inc., also doing business as Roebling Color Works, Brooklyn, N. Y. Paints. 277,587; Nov. 18; Serial No. 262,475; published Aug. 14, 1928. Class 16.

McCamey Bakery. (See Hayes, J. W. C.)

Merkle-Wiley Broom Co., to Merkle Broom Company, Paris, France, successor. Brooms. 31,349; renewed Mar. 28, 1931.

Meyenberg Laboratories, Inc., Salinas, Calif. Milk and ice-cream mix. 277,637; Nov. 18. Class 46.

Miller, Benjamin, Chicago, Ill. Wood polish. 79,921; renewed Oct. 18, 1930.

Mitsuwa Company, Inc., San Francisco, Calif. Canned edible seaweed, canned and dried vegetables, etc. 277,540; Nov. 18; Serial No. 301,988; published Sept. 2, 1930. Class 46.

Molt, Adolph, Newark, N. J., to Adolph Molt, Miami, Fla. Instruments and machines. 80,485; renewed Dec. 20, 1930.

Moosehead-Whitely Exerciser Company, New York, N. Y. Fishing lines, exercising apparatus. 277,580; Nov. 18; Serial No. 285,219; published Aug. 12, 1930. Class 22.

Morton Manufacturing Corporation, doing business as Blair Laboratories, Lynchburg, Va. Cosmetics, baby powder, medicinal preparations, etc. 277,623; Nov. 18. Class 6.

Morton Manufacturing Corporation, doing business as Blair Laboratories, Lynchburg, Va. Food products, flavoring extracts. 277,624; Nov. 18. Class 46.

Motorless Direct-Current Neon Sign Co., New York, N. Y. Electrical transformers. 277,548; Nov. 18; Serial No. 301,190; published Sept. 2, 1930. Class 21.

Myra Monet Candy Company. (See Peoples Drug Stores, Incorporated.)

National Cloak & Suit Company, by change of name to National Bellas Hess Co., New York, N. Y. Cotton piece goods. 81,284; renewed Mar. 21, 1931.

National Labeling Machine Co., Inc., Long Island City, N. Y. Machines for applying labels to the body of bottles and the like. 277,583; Nov. 18; Serial No. 276,895; published Aug. 6, 1929. Class 23.

National Macaroni Manufacturers Association, Braidwood, Ill. Macaroni, spaghetti, and noodles. 277,599; Nov. 18; Serial No. 298,036; published May 13, 1930. Class 46.

Nightingale, W. R., Ralston, Nebr. Automobile brushes. 277,613; Nov. 18. Class 29.

Norris, Arthur J., Greenwich, Conn. Embroidered piece goods. 277,559; Nov. 18; Serial No. 303,295; published Aug. 26, 1930. Class 42.

Obear-Nester Glass Company, St. Louis, Mo., and East St. Louis, Ill., to Obear Nester Glass Company, East St. Louis, Ill. Prescription bottles. 35,303; renewed Oct. 23, 1930.

Oneida Community, Limited, Kenwood and Niagara Falls, to Oneida Community, Limited, Oneida, N. Y. Hardware. 35,675; renewed Dec. 25 1930.

Oxford Filing Supply Co., Brooklyn, N. Y. Gummed labels. 277,618; Nov. 18. Class 37.

Parkhill Manufacturing Company, Fitchburg, Mass., assignor to Amoskeag Manufacturing Company, trustee under a declaration of trust (Mass.), Manchester, N. H. Ginghams. 80,677; renewed Jan. 17, 1931.

Paton, James W., Liverpool, England. Tennis balls and rubber balls. 277,603; Nov. 18; Serial No. 296,287; published Sept. 2, 1930. Class 22.

Peerless Sal-O-Well Co., Inc., Buffalo, N. Y. Jelly powder. 277,586; Nov. 18; Serial No. 262,926; published June 12, 1928. Class 46.

Peoples Drug Stores, Incorporated, doing business as Myra Monet Candy Company, Washington, D. C. Candy. 277,633; Nov. 18. Class 46.

Peppard, J. G., Seed Company, The, Kansas City, Mo. Seeds. 277,641; Nov. 18. Class 1.

Pew, Frederick W. (See Electric Compound Co.)

Philadelphia and Reading Coal and Iron Company, The, Philadelphia, Pa. Coal. 277,609; Nov. 18. Class 1.

Philadelphia and Reading Coal and Iron Company, The, Philadelphia, Pa. Coal. 277,616; Nov. 18. Class 1.

Plexo Preparations, Inc. (See General Drug Company, assignor.)

Porter, Henry K., Chelsea, assignor to H. K. Porter, Incorporated, Everett, Mass. Bolt clippers. 35,672; renewed Dec. 25, 1930.

Postum Cereal Co., Limited, Battle Creek, Mich., assignor, by mesne assignments, to Postum Company, Inc., New York, N. Y. Prepared wheat and barley breakfast foods. 80,492; renewed Dec. 27, 1930.

Prescott, J. L., Company. (See Black Silk Stove Polish Work, assignor.)

Querfurter Zuckerrübensamenzucht Bergmann & Co., G. m. b. H., Querfurt, Germany. Sugar beet seeds. 277,634; Nov. 18. Class 1.

Ralston Purina Company. (See Robinson-Danforth Milling Company.)

Ready Tool Company, The, as assignee of Thomas Fish, assignor to Ready Tool Company, Bridgeport, Conn. Boring mill, planer and shaper, lathe and turning tools. 81,138; renewed Mar. 7, 1931.

Red Raven Corporation, The. (See Duquesne Distributing Company.)

Robinson-Danforth Milling Company, by change of name, to Ralston Purina Company, St. Louis, Mo. Manufactured cereal products. 35,569; renewed Dec. 11, 1930.

Rochester Can Company, Rochester, N. Y. Stamped and pressed sheet-metal cans and baskets. 80,806; renewed Jan. 31, 1931.

Roebling Color Works. (See McCafferty, James A., & Sons Manufacturing Company, Inc.)

Rowney, George, & Co., assignor to George Rowney & Co. Ltd., London, England. Artists' colors and artists' varnishes. 80,495; renewed Dec. 27, 1930.

Rowney, George, & Co., assignor to George Rowney & Co. Ltd., London, England. Articles of stationery. 80,954; renewed Feb. 14, 1931.

Ryan, Matthew W., Sons & Co. Inc., New York, N. Y. Linen and cotton piece goods. 277,539; Nov. 18; Serial No. 302,032; published Aug. 12, 1930. Class 42.

St. Mungo Manufacturing Company, Glasgow, Scotland, assignor to St. Mungo Manufacturing Company of America, Newark, N. J. Golf balls. 81,302–3; renewed Mar. 21, 1931.

Sander, Johannes A., Hamburg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. pany, Greenville, S. C. Maltless beverages and extracts. Chemical, pharmaceutical, and surgical products and preparations. 35,639; renewed Dec. 25, 1930.

Sayles Finishing Plants, Inc., Saylesville, R. I., and New York, N. Y. Cotton and woolen piece goods. 277,549; Nov. 18; Serial No. 302,516; published Aug. 19, 1930. Class 42.

Scales, Robert R., doing business as Scales-Wilson Comsyrups, and concentrates for making the same. 277,574; Nov. 18; Serial No. 289,693; published Oct. 29, 1929. Class 45.

School Service Co. (See Cooney, Ralph S.)

Schreiber, A., Brewing Company, assignor, by mesne assignments, to Schreiber Products Corporation, Buffalo, N. Y. Bottled beer. 80,443; renewed Dec. 20, 1930.

Seacoast Canning Company, Eastport, Me. Canned foods. 277,631; Nov. 18. Class 46.

Sears, Roebuck and Co., Chicago, Ill. Bedspreads. 277,556; Nov. 18; Serial No. 303,494; published Aug. 26, 1930. Class 42.

Sedlmayr, Gabriel, Brauerei zum Spaten, assignor to Gabriel u. Jos. Sedlmayr Spaten-Franziskaner-Leistbrau A.-G. München, Munich, Germany. Beer. 79,794; renewed Oct. 4, 1930.

Semon, Inc., New York, N. Y. Finger-waving lotion, brilliantine, etc. 277,538; Nov. 18; Serial No. 302,048; published July 15, 1930. Class 6.

Shull-Day Co., by change of name, to Day's Tailor-D Wear, Inc., Tacoma, Wash. Clothing. 79,161; renewed Aug. 9, 1930.

Simplicity Pattern Company, Inc., New York, N. Y. Dress patterns. 277,639; Nov. 18. Class 26.

Sloan Brothers, Lonaconing, Md. Table glassware. 277,570; Nov. 8; Serial No. 302,698; published Sept. 2, 1930. Class 33.

Sloan, Earl S., Boston, Mass., assignor, by mesne assignments, to Dr. Earl S. Sloan, Incorporated, New York, N. Y. Medicine. 35,406; renewed Nov. 13, 1930.

Société Anonyme Haviland & Co., Paris, France. Articles of porcelain, crockery, and earthenware. 277,592; Nov. 18; Serial No. 299,934; published Aug. 12, 1930. Class 30.

Sof Products Co., Not Incorporated. (See Dubin, Henry.)

South Bend Bait Company, South Bend, Ind. Fishing and casting reels. 277,557; Nov. 18; Serial No. 303,390; published Aug. 26 1930. Class 22.

Spiegel Chain Co., Providence, R. I. Jewelry. 277,644; Nov. 18. Class 28.

Sproull, Geo., Company, Inc., Shreveport, La. Paints, stains, and varnishes. 277,573; Nov. 18; Serial No. 289,848; published Feb. 11, 1930. Class 16.

Standard Oil Company of New York, New York, N. Y. Lubricating oils. 80,385; renewed Dec. 13, 1930.

Standard Oil Company of New York, New York, N. Y. Petroleum for illuminating, heating, etc. 80,386; renewed Dec. 13 1930.

Stanley Works, The, New Britain, Conn. Screw drivers. 277,585; Nov. 18; Serial No. 274,742; published Mar. 19, 1929. Class 23.

Starks, Richard S., Midway, Ky. Corn and bunion plasters. 79,165; renewed Aug. 9, 1930.

Stein, S., & Co., New York, N. Y. Woolen goods in the piece and in cut lengths. 277,532; Nov. 18; Serial No. 302,417; published Aug. 19, 1930. Class 42.

Straus, Nathan, & Sons, Inc., New York, N. Y. Kitchen equipment. 277,617; Nov. 18. Class 13.
Stromberg-Carlson Telephone Manufacturing Company. (See Dean Electric Company, The, assignor.)
Sullivan Co., The, Memphis, Tenn. Precipitating and waterproofing compound. 277,612; Nov. 18. Class 12.
Sylvan Electric Bath, Inc. (See Bückle, George, assignor.)
Tate & Lyle, Limited. (See Lyle, Abram & Sons, assignor.)
Textile Refinishing Laboratories, Inc., New York and Long Island City, N. Y. Rugs and carpets. 277,567–8; Nov. 18; Serial Nos. 302,888–9; published Aug. 26, 1930. Class 42.
Thibaut, Richard E., Incorporated, New York, N. Y. Wall papers. 277,632; Nov. 18. Class 37.
Tritle, Glenn W., doing business as Tritle Laboratories, Seattle, Wash. Skin creams. 277,615; Nov. 18. Class 6.
Union Card & Paper Co., New York, N. Y. Paper and envelops. 81,182; renewed Mar. 7, 1931.
United Drug Company, assignor, by mesne assignments, to United Drug Company, Boston, Mass. Detergents. 80,880; renewed Feb. 7, 1931.
United States Gypsum Company. (See King, J. B., & Co., assignor.)
Vacuum Oil Company, Rochester, to Vacuum Oil Company, New York, N. Y. Compound for currying leather. 35,232; renewed Oct. 9, 1930.
Valvoline Oil Company. (See Ellis, Wilbur D., assignor.)
Van Itallie, Dorus, doing business as Van Itallie Company, The, New York, N. Y. Noncut industrial diamonds. 277,649; Nov. 18. Class 1.
Victoria Elevator Co., Minneapolis, Minn. Wheat flour. 277,636; Nov. 18. Class 46.
Viscose Company, The, Marcus Hook, Pa. Synthetic yarn. 277,564; Nov. 18; Serial No. 302,922; published Aug. 19, 1930. Class 43.
Vesta Battery Corporation, Chicago, Ill. Storage batteries. 277,575; Nov. 18; Serial No. 289,051; published Oct. 15, 1929. Class 21.
Vex Sales Corporation, Chicago, Ill. Fertilizer refills. 277,536; Nov. 18; Serial No. 302,294; published Sept. 2, 1930. Class 10.
Walgreen Company, Chicago, Ill. Golf balls. 277,530; Nov. 18; Serial No. 302,500; published Aug. 12, 1930. Class 22.
Walker Properties Association, Austin, Tex. Comino powder, garlic powder, red pepper, etc. 277,561; Nov. 18; Serial No. 303,017; published Sept. 2, 1930. Class 46.
Wampole, Henry K., & Co., assignor to Henry K. Wampole and Company, Incorporated, Philadelphia, Pa. Cod-liver-oil preparations. 35,808; renewed Jan. 22, 1931.
Warren, W., Thread Works. (See Blodgett & Orswell Co., assignor.)
Washburn Company, The. (See Wire Goods Company, The.)
Waterman, L. E., Company, New York, N. Y. Fountain pens. 35,849; renewed Feb. 5, 1931.
Wenatchee District Co-Operative Association, Wenatchee, Wash. Fresh apples. 277,629; Nov. 18. Class 46.
Western Bottle Mfg. Co., Chicago, Ill. Handkerchiefs. 277,548; Nov. 18; Serial No. 302,607; published Aug. 19, 1930. Class 42.
Western Clock Mfg. Co., The, assignor to Western Clock Company, Peru, Ill. Clocks and watches. 80,503; renewed Dec. 27, 1930.
White, Geo. C., doing business as White Rapid Disher Co., Newark, N. J. Ice-cream scoops. 277,635; Nov. 18. Class 23.
White Rapid Disher Co. (See White, Geo. C.)
White-Warner Company, The, Taunton, Mass. Stoves, ranges, furnaces, and heaters. 80,451; renewed Dec. 20, 1930. Class 34.
Whitman, Willliam, Company, Inc., Boston, Mass. Cotton piece goods. 277,560; Nov. 18; Serial No. 303,076; published Aug. 12, 1930. Class 42.
Winterbottom Book Cloth Company Limited, Manchester, England. Tracing cloth. 277,620–1; Nov. 18. Class 37.
Wire Goods Company, The, by change of name to The Washburn Company, Worcester, Mass. Hardware and metal articles. 78,753; renewed July 5, 1930.
Wolferman, Fred, assignor to Fred Wolferman, Inc., Kansas City, Mo. Preserved or canned goods. 36,119; renewed Mar. 26, 1931.
Woodworth, Inc., New York, N. Y. Astringents, beauty creams, cold creams, etc. 277,645; Nov. 18. Class 6.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS

Caul, Phi lip M., & Company, Cleveland, Ohio. Oyl-Agar. For Medicinal Preparation Used as a Laxative. 38,247; Nov. 18.
Chaney & Rowell, Inc., Nampa, Idaho. Ida-Best. For Fresh Apples. 38,248; Nov. 18.
Columbia Chemical Company, New York, N. Y. Columbia Brand Ammonia. For Ammonia. 38,249; Nov. 18.
Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's Sponge Cake Layers. For Sponge Cake. 38,250; Nov. 18.
Dugan Brothers, Inc., Brooklyn, N. Y. Home Made Fruit Cake. For Fruit Cake. 38,251; Nov. 18.
Embossing Company, The, Albany, N. Y. Anagram Dice. For Game Apparatus Employing Lettered Blocks. 38,252; Nov. 18.
Fort Pitt Brewing Company, Sharpsburg, Pa. Fort Pitt Radio Hour. For Lager Brew. 38,253; Nov. 18.
General Baking Company, New York, N. Y. Bond Bread Sliced. For Bread. 38,254; Nov. 18.
General Baking Company, New York, N. Y. Bond Bread. For Bread. 38,255; Nov. 18.
Gray Lithograph Company, The, New York, N. Y. Our Gang Playthings. For Playthings. 38,256; Nov. 18.
Haserot Company, The, Cleveland, Ohio. Cherry Home Red Sour Pitted Cherries. For Canned Red Sour Pitted Cherries. 38,257; Nov. 18.
Heller, B., & Company, Chicago, Ill. Punch-Ola. For Preparation for Making a Fruit-Flavored Drink or Ice. 38,258; Nov. 18.
Jersey Cereal Company, Irwin, Pa. Nu-Jems. For Whole Brown Rice. 38,259; Nov. 18.
Jersey Cereal Company, Irwin, Pa. Wheat and Bran. For Toasted Whole-Wheat and Bran Flakes. 38,260; Nov. 18.
Jersey Cereal Company, Irwin, Pa. Rolled Whole Wheat. For Rolled Wheat. 38,261; Nov. 18.
Krank, A. J., Co., St. Paul, Minn. Krank. For Skin Creams. 38,262; Nov. 18.
Lederer, Lawrence, doing business as Nutex Sales Co., Philadelphia, Pa. Life Guard. For Prophylactic Articles, Etc. 38,263; Nov. 18.
Millett, J. C., & Company, San Francisco, Calif. Royal Dutch. For Malt Syrup. 38,264; Nov. 18.
Nestle-Le Mur Company, The, New York, N. Y. Nestle Superset Finger Waving Lotion. For Finger-Waving Lotions. 38,265; Nov. 18.
Nutex Sales Co. (See Lederer, Lawrence.)
Point Adams Packing Co., Hammond, Oreg. Seabird. For Canned Salmon. 38,266; Nov. 18.
Renilo Company, New York, N. Y. Changlo. For Hair Nets. 38,267; Nov. 18.
Standard Brands Incorporated, New York, N. Y. Token. For Coffee. 38,268; Nov. 18.
Sutherland Paper Company, Kalamazoo, Mich. Ice Cream. For Ice Cream. 38,269; Nov. 18.
Tang Tang Industries, Inc., New York, N. Y. Tang Tang. For Candy. 38,270; Nov. 18.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS

Bausch & Lomb Optical Company, Rochester, N. Y. Orthogon Paint Book. For Ophthalmic Lenses. 12,808; Nov. 18.
Chicago Master Bakers' Association, Chicago, Ill. This Emblem Means Quality Products Baked Right Here. For Bakery Products. 12,809; Nov. 18.
Coca-Cola Company, The, Atlanta, Ga. So Refreshing! For Coca-Cola. 12,810; Nov. 18.
Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's Pumpkin Pies and Doughnuts A Real Treat for Halloween. For Pumpkin Pies and Doughnuts. 12,811; Nov. 18.
Fisk Tire Co. Inc., Chicopee Falls, Mass. "Ride The Air" On The Highways. For Fisk Tires. 12,812; Nov. 18.
Fisk Tire Co. Inc. Chicopee Falls, Mass. Air Flight Principle Tires. For Fisk Tires. 12,813; Nov. 18.
Fisk Tire Co. Inc., Chicopee Falls, Mass. Like Riding On Air. For Fisk Tires. 12,814; Nov. 18.
General Foods Corp., New York, N. Y. Buy All That You Need For Washday Now! For Laundry Product. 12,815; Nov. 18.
Mello-Glo Co., Boston, Mass. Keeps Your Skin Beautiful. For Face Powder. 12,816; Nov. 18.
Mello-Glo Co., Boston, Mass. Stays On Longer. For Face Powder. 12,817; Nov. 18.
Mello-Glo Co., Boston, Mass. Prevents Large Pores. For Face Powder. 12,818; Nov. 18.

Moxie Co., The, Roxbury, Mass. Drink Moxie. For Moxie, a Beverage. 12,819; Nov. 18.
Noxzema Chemical Co., Baltimore, Md. Noxzema For Sunburn. For Noxzema. 12,820; Nov. 18.
Postagraph Co., The, Baltimore, Md. Post-A-Graph. For Printed Blanks. 12,821; Nov. 18.
Robbins, C. H. D., Company, New York, N. Y. Losses Are Never Taken On Our Dresses. For Women's and Misses' Frocks, Dresses, and Gowns. 12,822; Nov. 18.
Tancill, Grace, St. Louis, Mo. Featuring The Four Newest Designs of Grace Tancill Creations in Jersey. For Dresses. 12,823; Nov. 18.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

A. F. A. Learn & Earn System, Evansville, Ind. Partially-printed forms. 266,165; Nov. 18. Class 37.
Acheson Manufacturing Company, Rankin, Pa. Metal pipe fittings. 303,707; Nov. 18. Class 13.
Acme Cotton Products Co., Inc., New York, N. Y. Beauty (powder) puffs. 306,521; Nov. 18. Class 29.
Adams, J. C., Company, Toronto, Ontario, Canada. Spraying apparatus. 299,101; Nov. 18. Class 23.
Air-O-Lator Corporation, The, Cleveland, Ohio. Electric fans, motors, and motor supports. 267,178; Nov. 18. Class 21.
American Girl Products, New York, N. Y. Toilet creams. 306,039; Nov. 18. Class 6.
American Glanzstoff Corporation, New York, N. Y. Artificial silk in thread and yarn form. 256,702–3; Nov. 18. Class 43.
American Narrow Fabric Company, Worcester, Mass. Sanitary belts or waistbands. 304,904; Nov. 18. Class 44.
American Seating Company, Chicago, Ill. Wooden furniture. 305,891; Nov. 18. Class 32.
Ankeny, A. A., doing business as Ankeny, Inc., Rochelle, Ill. Fresh tomatoes and cucumbers. 302,503; Nov. 18. Class 46.
Antox Manufacturing Company, Seattle, Wash. Medicinal compound. 306,804; Nov. 18. Class 6.
Arbuckle, J., & Company, Inc., New York, N. Y. Green coffee. 306,638; Nov. 18. Class 46.
Artcraft Valance Manufacturing Company, Seattle, Wash. Waterproof shower curtains. 300,162; Nov. 18. Class 13.
Atlanta Tent & Awning Company. (See Couch Bros. Manufacturing Co.)
Atlantic and Pacific Oil Company, Detroit, Mich. Gasolene, lubricating oils and greases. 305,841; Nov. 18. Class 15.
Balfour Guthrie & Company, San Francisco, Calif. Canned and dried fruits, canned vegetables, etc. 302,621; Nov. 18. Class 46.
Bamberger, L., & Co., Newark, N. J. Watches. 306,485; Nov. 18. Class 27.
Battery Wonder Power Inc., The, San Francisco, Calif. Liqu'd composition. 305,554; Nov. 18. Class 6.
Bauer, Max, Incorporated, New York, N. Y. Coats, suits, hats, etc. 306,307; Nov. 18. Class 39.
Belle, Cecelia, Inc., New York, N. Y. Cold creams, compacts, rouges, etc. 297,512; Nov. 18. Class 6.
Bettencourt, Manuel J., New Bedford, Mass. Ointment. 300,607; Nov. 18. Class 6.
Blass, F. M. Eugene, doing business as E. Am. Ass'n. for Oxygen-Therapy, New York, N. Y. Pharmaceutical preparation. 299,675; Nov. 18. Class 6.
Bohack, H. C., Co., Inc., Brooklyn, N. Y. Coffee. 302,570; Nov. 18. Class 46.
Böhme, H. Th. A. G., Chemnitz, Germany. Chemical dye aids. 306,687; Nov. 18. Class 6.
Border Queen Kitchen Cabinet Company, Fort Smith, Ark. Kitchen cabinets. 297,953; Nov. 18. Class 32.
Brooklyn Macaroni Co., Inc., Brooklyn, N. Y. Alimentary-paste products. 306,257; Nov. 18. Class 46.
Brooks Clothing Company, Los Angeles, Calif. Men's outer clothing. 285,657; Nov. 18. Class 39.
Brownell Company, The, Dayton, Ohio. Boilers, stokers, and heaters. 302,850; Nov. 18. Class 34.
Buehler Printcraft Co., The, doing business as Cleveland Club Life, Inc., Cleveland, Ohio. Magazine. 298,886; Nov. 18. Class 38.
Cahn-Wile Co. Inc., New York, N. Y. Wearing apparel. 306,218; Nov. 18. Class 39.
California Crushed Fruit Corporation, Los Angeles, Calif. Beverages and syrups, extracts, and concentrates. 304,233–4; Nov. 18. Class 45.
California Fruit Exchange, Sacramento and Loomis, Calif. Fresh deciduous fruits. 301,826; Nov. 18. Class 46.
Carborundum Company, The, Niagara Falls, N. Y. Abrasive articles and compounds, abrasive wheels, etc. 303,837; Nov. 18. Class 4.
Card, Elmer, doing business as Card Seed Company, Fredonna, N. Y. Garden seeds. 295,361; Nov. 18. Class 1.
Carle, Inc., Des Moines, Iowa. Perfume. 304,994; Nov. 18. Class 6.
Celo Company of America. (See Locoa Company, Inc.)
Century Glove Company, Newark, N. J. Gloves. 306,049; Nov. 18. Class 39.
Chase Bag Company, New York, N. Y. Paper bags. 306,231; Nov. 18. Class 2.
Chemical Process Corporation, Chicago, Ill. Carbon paper. 286,028; Nov. 18. Class 11.
Chemische Fabrik Promonta Gesellschaft mit beschrankter Haftung, Hamburg, Germany. Hair tonic. 305,963; Nov. 18. Class 6.
Chicago Sanitary Products Co., doing business as Cleanwell Mfg. Co., Chicago, Ill. Brass polish, soaps, polishing cloths, etc. 296,730; Nov. 18. Class 4.
Clapp, E. H., Rubber Company, Boston, Mass. Rubber heels. 305,964; Nov. 18. Class 39.
Clarion Music Corporation, Bridgeport, Conn. Phonograph records. 305,390; Nov. 18. Class 36.
Cleanwell Mfg. Co. (See Chicago Sanitary Products Co.)
Clemens, Paul, Bethel, Me. Marionettes. 305,898; Nov. 18. Class 22.
Cleveland Club Life, Inc. (See Buehler Printcraft Co., The.)
Cluny, Inc., New York, N. Y. Cold creams, eyebrow pencils, face creams, etc. 297,518–9; Nov. 18. Class 6.
Colnomatic Corporation, Buffalo, N. Y. Target-practice apparatus and targets. 304,855; Nov. 18. Class 22.
Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Electric switches and parts thereof. 300,105; Nov. 18. Class 21.
Cooper, Josh W., doing business as J. W. Cooper and Company, New York, N. Y. Hydraulic rowing machines. 306,085; Nov. 18. Class 22.
Corn Products Refining Company, New York, N. Y. Starch. 306,595; Nov. 18. Class 6.
Couch Bros. Manufacturing Co., doing business as Atlanta Tent & Awning Company, East Point, Ga. Couch hammocks, drop curtains, and tailored canvas covers for furniture. 291,820; Nov. 18. Class 32.
Curtice Brothers Co., Rochester, N. Y. Canned fruits and vegetables, boned chicken, etc. 293,364; Nov. 18. Class 46.
Dartmoor Coat Co., Inc., The, New York, N. Y. Topcoats. 305,850; Nov. 18. Class 39.
De Land, C. M., New York, N. Y. All-wool cloth in piece goods. 288,591; Nov. 18. Class 42.
De Lone, Charles A., doing business as Enoled Laboratories, Harrisburg, Pa. Mouth wash and antiseptic. 290,344; Nov. 18. Class 6.
Delta-Star Electric Company, The, Chicago, Ill. Forged-steel-pipe fittings. 299,187; Nov. 18. Class 13.
Dixe Deb, Atlanta, Ga. Toilet preparations. 305,807; Nov. 18. Class 6.
Dobbs & Co., New York, N. Y. Hats for women. 306,003; Nov. 18. Class 39.
Dougherty, Michael F., Logansport, Ind. General tonic. 305,163; Nov. 18. Class 6.
E. Am. Ass'n. for Oxygen-Therapy. (See Blass, F. M. Eugene.)
Eagle Roller Mill Co., Inc., Shelby, N. C. Wheat flour. 306,561; Nov. 18. Class 46.
Eastman Kodak Company, Rochester, N. Y. Photographic developers. 306,004; Nov. 18. Class 6.
Economy Food Products Company, Cambridge, Mass. Prepared flour. 306,697; Nov. 18. Class 46.
Electra Manufacturing Company, Kansas City, Mo. Golf clubs and parts thereof. 306,132; Nov. 18. Class 22.
Electric Household Utilities Corporation, doing business as Hurley Machine Company, Chicago, Ill. Arc lamps, ultra-violet-ray lamps, etc. 295,257; Nov. 18. Class 44.
Empire Metal Cap Co., Inc., Brooklyn, N. Y. Sheet-metal caps for bottles and jars. 304,239; Nov. 18. Class 50.
Emsheimer & Sahlein, New York, N. Y. Silk, rayon, and woolen fabrics. 299,263; Nov. 18. Class 42.
Enoled Laboratories. (See De Lone, Charles A.)
Ens-Em Chemical Company. (See Galowin, Ralph.)
Euclid Candy Company of California, Incorporated, San Francisco, Calif. Candy. 305,397; Nov. 18. Class 46.
Excelsior Supply Co. (See Mulherin, William F.)
Floyd, Carl, doing business as Thermolene Properties, Boonville, Ind. Antifreeze solutions. 305,352; Nov. 18. Class 6.
Flying Film Co., The. (See Newton, Carl D.)
Food Flavors Corp., New York, N. Y. Food flavors. 302,243; Nov. 18. Class 46.
Foster Wheeler Corporation, New York, N. Y. Plate air heaters, condensers, evaporators, etc. 296,963; Nov. 18. Class 34.
Freund, Freund & Co., New York, N. Y. Bed ticking. 297,837; Nov. 18. Class 42.
Friedlander, Adèle S., San Francisco, Calif. Prune cake. 305,040; Nov. 18. Class 46.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Galowin, Ralph, doing business as Ens-Em Chemical Company, Brighton, Brooklyn, N. Y. Preparation for killing moths. 304,501; Nov. 18. Class 6.

General Cosmetics Corporation, New York, N. Y. Lip and face rouge, talcum powder, nail polish, etc. 299,569; Nov. 18. Class 6.

Gentile Bros. Company, Orlando, Fla. Fresh citrus fruits. 306,397; Nov. 18. Class 46.

Given, Albert, Manufacturing Company, East Chicago, Ind. Men's trousers, suits, coats, and vests. 305,810; Nov. 18. Class 39.

Goldberg, Abraham G., doing business as International Manufacturing Company, Boston, Mass. Sanitary wall toothbrush holders. 302,773; Nov. 18. Class 13.

Golden Star Planting & Mfg. Co. Inc., New Orleans, La. Syrups. 305,312; Nov. 18. Class 46.

Gossard, H. W., Co., The, Chicago, Ill. Combination garments. 306,266; Nov. 18. Class 39.

Great Lakes Varnish Works, Inc., Chicago, Ill. Flat wall paint. 306,351; Nov. 18. Class 16.

Greenpoint Metallic Bed Co., Inc., Brooklyn, N. Y. Mattresses and coil bed springs. 300,189–90; Nov. 18. Class 32.

Greif, L. & Bro., Incorporated, Baltimore, Md. Topcoats, overcoats, vests, etc. 306,237; Nov. 18. Class 39.

Grigsby-Grunow Company, Chicago, Ill. Loud-speakers and radio receiving sets. 299,439; Nov. 18. Class 21.

Hahn, Hermann, doing business as Hahn & Co., Hamburg, Germany. Cod-liver oil. 302,180; Nov. 18. Class 6.

Hamilton Bottling Works. (See Margolis, Paul.)

Hanford's Inc., doing business as Quaker Seal Petroleum Company, Sioux City, Iowa. Lubricating oils and greases. 303,439; Nov. 18. Class 15.

Harper & Humphrey, Chicago, Ill. Preparation for blood disorders. 306,602; Nov. 18. Class 6.

Hill, Henry P., doing business as Hill's Hybrodonna Laboratories, Washington, D. C. Medicinal preparations. 306,737; Nov. 18. Class 6.

Hitchcock, Frederick C., Boston, Mass. Cold vulcanized rubber. 306,702; Nov. 18. Class 1.

Hotstream Heater Company, The, Cleveland, Ohio. Automatic draft controls. 305,861; Nov. 18. Class 34.

Hughes Curry Packing Company, Anderson, Ind. French dressing, mayonnaise, sandwich spreads, etc. 283,276; Nov. 18. Class 46.

Hurley Machine Company. (See Electric Household Utilities Corporation.)

Hurwitz, William, doing business as William Hurwitz & Co., London, England. Leather and artificial leather. 302,897; Nov. 18. Class 1.

Indian Refining Company, Lawrenceville, Ill. Lubricating oils and greases. 305,555; Nov. 18. Class 15.

Industrial Home for the Blind, The. Brooklyn, N. Y. Brooms. 295,315; Nov. 18. Class 29.

International Cordage & Yarn Co., The. (See Sykes, Alexander L.)

International Feature Service, Inc., New York, N. Y. Newspaper section. 306,316; Nov. 18. Class 38.

International Manufacturing Company. (See Goldberg, Abraham G.)

International Shoe Co., St. Louis, Mo. Boots and shoes. 305,972; Nov. 18. Class 39.

Irving Shoe Company, Chicago, Ill. Shoes. 301,936; Nov. 18. Class 39.

Isbell, Harry C., Chicago, Ill. Slings and balls for slings. 296,599; Nov. 18. Class 22.

Isrin, David, doing business as D. Isrin Company, New York, N. Y. Candy. 306,353; Nov. 18. Class 46.

Italy Laboratories. (See Martino, Antonino R.)

Jackson Fertilizer Company, Jackson, Miss. Fertilizer. 306,059; Nov. 18. Class 10.

Jackson, William B., doing business as Jackson Candy Company, Martin, Tenn. Peanut and cocoanut bar. 306,239; Nov. 18. Class 46.

Johnston, Adolf C., doing business as Nuvita Company, Burnley, near Melbourne, Victoria, Australia. General tonic. 303,379; Nov. 18. Class 6.

Johnston, Robert A., Company, Milwaukee, Wis. Liquid coating for ice cream. 305,064; Nov. 18. Class 46.

Jones, Louise M., Tacoma, Wash. Bathing caps. 304,330; Nov. 18. Class 39.

Kamalian, Aram, Hollywood, Calif. Perfumes. 305,007; Nov. 18. Class 6.

Kiel Furniture Co., The, Milwaukee, Wis. Musical-instrument housings. 303,908; Nov. 18; Class 32.

Kingan & Co., Incorporated, Indianapolis, Ind. Cheese. 297,082; Nov. 18. Class 46.

Kleinert, I. B., Rubber Company, New York, N. Y. Dress shields. 306,533; Nov. 18. Class 40.

Kline's, Incorporated, St. Louis, Mo. Ladies' dresses. 306,187; Nov. 18. Class 39.

Kongsted, Aug., doing business as Løvens kemiske Fabrik ved A. Kongsted, Copenhagen, Denmark. Appliances and equipment for use in the detection of blood for doctors' scientific purposes. 304,052; Nov. 18. Class 44.

Kunze, Robert O., Richmond Hill, N. Y. Coffee. 304,288; Nov. 18. Class 46.

Kurlash Company, Inc., The, Rochester, N. Y. Eye-shading preparation. 305,189. Nov. 18. Class 6.

La Salle Hosiery Company, Philadelphia, Pa. Hosiery. 305,784; Nov. 18. Class 39.

Lava Chemical Company. (See Levin, Jacob M.)

Lefebvre, P. A., & Company, Limited, Alexandria, Ontario, Canada. Preparation used in gasoline and kerosene engines. 295,483; Nov. 18. Class 6.

Lestico, Henry H., Los Angeles, Calif. Periodical. 304,729; Nov. 18. Class 38.

Levin, Jacob M., doing business as Lava Chemical Company, Philadelphia, Pa. Medicinal ointment. 298,284; Nov. 18. Class 6.

Liebig's Extract of Meat Company, Limited, London, England. Fertilizers. 306,190; Nov. 18. Class 10.

Livingston, Eugene, Cass City, Mich. Power-driven litter-handling equipment and stable-cleaning apparatus. 305,713; Nov. 18. Class 23.

Locoa Company, Inc., doing business as Celo Company of America, Tampa, Fla. Maltless beverage. 305,441–8; Nov. 18. Class 45.

Lookout Medicine Co., Inc., Chattanooga, Tenn. Preparation used for treatment of indigestion, blood tonic, liver and kidney preparation. 306,707; Nov. 18. Class 6.

Lord & Taylor, New York, N. Y. Boots, shoes, and slippers. 306,449; Nov. 18. Class 39.

Løvens kemiske Fabrik ved A. Kongsted. (See Kongsted, Aug.)

Lucky Stroke Razor Blade Company. (See Shapiro, Ira J.)

M & R Dietetic Laboratories, Inc., Columbus, Ohio. Powdered milk. 306,006; Nov. 18. Class 46.

Macmillan Petroleum Corporation, Los Angeles, Calif. Gasoline, kerosene, lubricating oil, and lubricating greases. 303,971; Nov. 18. Class 15.

Magnavox Company, The, Oakland, Calif. Loud-speakers, telephone receivers, and parts thereof. 272,821; Nov. 18. Class 21.

Maish, Clifford W., Bedding Company, The, Cincinnati, Ohio. Furniture covers. 305,578; Nov. 18. Class 50.

Margolis, Paul, doing business as Hamilton Bottling Works, Waterbury, Conn. Maltless beverages. 305,411; Nov. 18. Class 45.

Marianal, Paul, New York, N. Y. Shoe-heel ornament. 306,407; Nov. 18. Class 40.

Marshall Field & Company, Chicago, Ill. Sleeping garment. 306,347; Nov. 18. Class 39.

Martin Dyeing and Finishing Co., Bridgeton, N. J. Cotton piece goods. 303,334; Nov. 18. Class 42.

Martino, Antonino R., doing business as Italy Laboratories, New York, N. Y. Hair color restorer, salves, and elixirs, dandruff preparations, etc. 306,781; Nov. 18. Class 6.

McClelland, Walter J., New York, N. Y. Hosiery. 305,819; Nov. 18. Class 39.

McManus Laboratories, Inc., New York and Brooklyn, N. Y. Heating pads. 306,500; Nov. 18. Class 44.

McNear, John A., doing business as J. A. McNear Co., San Francisco, Calif. Illuminating, etc., oils. 299,982; Nov. 18. Class 15.

Mellier Company, Perfumer, St. Louis, Mo., and New York, N. Y. Perfumery, creams, toilet water, etc. 293,928; Nov. 18. Class 6.

Mercantile Directories Publishing Co. Inc., New York, N. Y. Periodical advertising publication. 305,283; Nov. 18. Class 38.

Merchandise Mart Reporter, The, Chicago, Ill. Publication. 303,064; Nov. 18. Class 38.

Mersey Paper Company, Limited, Brooklyn, Nova Scotia. Newsprint paper. 303,914; Nov. 18. Class 37.

Metalloy Corporation, The, Waterbury, Conn. Zinc alloy. 306,408; Nov. 18. Class 14.

Metcalf Brothers & Co., New York, N. Y. Woolen piece goods. 303,335; Nov. 18. Class 42.

Meyers, Louis, & Son, Inc., New York, N. Y. Gloves. 303,198; Nov. 18. Class 39.

Mickelberry, C. M., Inc., Chicago, Ill. Corn-meal mush. 305,010; Nov. 11. Class 46.

Midway Chemical Company, Chicago, Ill. Roach powder. 306,631; Nov. 18. Class 6.

Miller, John H., Brentwood, Md. Medicinal salve. 306,741; Nov. 18. Class 6.

Mocq, Louis, New York, N. Y. Astringents, astringent cerates, bleach and beauty creams, etc. 304,246; Nov. 18. Class 6.

Montague, Nelle E., San Angelo, Tex. Marmalades, jellies, and mixed pickles. 303,542; Nov. 18. Class 46.

Moto Meter Gauge & Equipment Corporation, Toledo, Ohio. Brake handles for automobiles. 306,279; Nov. 18. Class 19.

Mulherin, William F., doing business as Excelsior Supply Co., Syracuse, N. Y. Malt syrup. 305,672; Nov. 18. Class 46.

Mullen, Roy A., doing business as Premier Laboratories Co., Cincinnati, Ohio. Headache capsules, laxative tablets, foot powder, etc. 306,570; Nov. 18. Class 6.

Muller, William H., doing business as C. J. Schellings & Co., New York, N. Y. Antifreeze liquid. 306,242; Nov. 18. Class 6.

N. V. Standard Water Maatschappij, Amsterdam, Netherlands. Filtering apparatus. 306,022; Nov. 18. Class 31.

Nathan, Emil, jr., St. Louis, Mo. Metallic hand-operated implement for extracting juices from citrus fruits. 295,078; Nov. 18. Class 23.

National Distilling Company. (See Red Star Yeast & Products Company.)

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

New Idea Manufacturing Company, Inc., Philadelphia, Pa. Bags and household utility containers or receptacles. 297,493; Nov. 18. Class 2.

New Idea Spreader Company, The, Coldwater, Ohio. Sprocket chains. 305,871; Nov. 18. Class 13.

New Jersey Zinc Company, The, Newark and Franklin Borough, N. J. Slab zinc. 306,571; Nov. 18. Class 14.

Newton, Carl D., doing business as The Flying Film Co., San Antonio, Tex. Photographic prints. 306,363; Nov. 18. Class 38.

New York Insulated Wire Company, Wallingford, Conn. Friction tape. 305,673; Nov. 18. Class 21.

Norris, Inc., Atlanta, Ga. Candy. 306,619; Nov. 18. Class 46.

Nutradiet Company, The, San Francisco, Calif. Cereal breakfast food. 305,722; Nov. 18. Class 46.

Nuvita Company. (See Johnston, Adolf C.)

Old Ben Coal Corporation, Chicago, Ill. Automatic heaters and furnaces. 305,979; Nov. 18. Class 34.

Ollendorff, I., Co., Inc., New York, N. Y. Watches, clocks, and parts thereof. 306,572; Nov. 18. Class 23.

Onyx Oil & Chemical Co., Jersey City, N. J. Preparation for application to textile fibers and fabrics. 306,455; Nov. 18. Class 6.

Otato Corporation, New York, N. Y. Desiccated potatoes. 290,191–3; Nov. 18. Class 46.

Paramount Publix Corporation, New York, N. Y. Moving-picture films. 305,790; Nov. 18. Class 26.

Parker Brothers, Inc., Salem, Mass. Board game. 306,459; Nov. 18. Class 22.

Peetz, Frederick W., St. Louis, Mo. Barbers' hair cloths. 305,935; Nov. 18. Class 39.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Shoes. 305,556; Nov. 18. Class 39.

Pettinos, George F., Philadelphia, Pa. Pulverizing machines. 306,105; Nov. 18. Class 23.

Pharmaceutical Research Corporation, Wilmington, Del. Mouth wash. 305,874; Nov. 18. Class 6.

Piekenbrock, E. B., & Sons Company, Dubuque, Iowa. Shoes. 304,886; Nov. 18. Class 39.

Premier Laboratories Co. (See Mullen, Roy A.)

Quaker Seal Petroleum Company. (See Hanford's Inc.)

Ragland, C. B., Company, Nashville, Tenn. Wheat flour. 303,785; Nov. 18. Class 46.

Red Star Yeast & Products Company, doing business as National Distilling Company, Milwaukee, Wis. Fusel oil. 306,663; Nov. 18. Class 6.

Reliable Coal & Mining Co., Chicago, Peoria, and Springfield, Ill., Moberly and Kansas City, Mo., and Omaha, Nebr. Coal. 291,142; Nov. 18. Class 1.

Reliable Coal & Mining Co., Chicago, Peoria, and Springfield, Ill., Moberly and Kansas City, Mo., and Omaha, Nebr. Coal. 291,144; Nov. 18. Class 1.

Remington Arms Company, Inc., Bridgeport, Conn., Ilion and New York, N. Y. Firearms. 306,723; Nov. 18. Class 9.

Rhode Island Plush Mills, Inc., Woonsocket, R. I. Pile fabrics. 303,728; Nov. 18. Class 42.

Richfield Oil Company of California, Los Angeles, Calif. Petroleum and products of petroleum, mineral wax, candles, etc. 300,542; Nov. 18. Class 15.

Robertson, Hector M., Los Angeles, Calif. Sulphur tablets, sedative tablets, flea powder, etc. 304,581; Nov. 18. Class 6.

Rohwedder, Henry, New York, N. Y. Pencil sharpener. 305,456; Nov. 18. Class 23.

Roos Bros., Inc., San Francisco, Calif. Men's suits. 298,256; Nov. 18. Class 39.

Royal Baking Powder Company, New York, N. Y. Gelatin desserts. 303,863; Nov. 18. Class 46.

Royal Baking Powder Company, Inc., New York, N. Y. Baking powder. 305,416; Nov. 18. Class 6.

Rudge-Whitworth Limited, Coventry, England. Vehicle wheels. 301,062; Nov. 18. Class 19.

S & M Lamp Co., Incorporated, Los Angeles, Calif. Electric lamps, electric lamp standards and lamp fittings, etc. 305,731; Nov. 18. Class 21.

Sachs, Carl L., Chicago, Ill. Paintbrush cleaner and preserver. 302,695; Nov. 18. Class 16.

Sanitary Grocery Company, Incorporated, Washington, D. C. Spaghetti, macaroni, canned corn, etc. 305,831; Nov. 18. Class 46.

Sanozym, Incorporated, New York, N. Y. Preparation composed of essential volatile extracts of balsamic and pinus plants. 305,371; Nov. 18. Class 6.

Savage Bros. Co., Chicago, Ill. Portable candy mixer and cooker, tilting cooker and mixer for candy with steam-jacket copper tilting kettle, tilting mixer, etc. 304,430; Nov. 18. Class 23.

Schellings, C. J., & Co. (See Muller, William H.)

Schmidt, C., & Sons, Incorporated, Philadelphia, Pa. Malt beverage. 306,145; Nov. 18. Class 48.

Schoenfeld, Emanuel, Harrisburg, Pa. Leather shoes. 306,072; Nov. 18. Class 39.

Schrafft, W. F., & Sons Corporation, Boston, Mass. Confectionery, fruit preserves, condiments, etc. 302,166; Nov. 18. Class 46.

Sears, Roebuck and Co., Chicago, Ill. Aluminum household utensils. 306,373; Nov. 18. Class 13.

Sears, Roebuck and Co., Chicago, Ill. Dolls. 306,467; Nov. 18. Class 22.

Shapiro, Ira J., doing business as Lucky Stroke Razor Blade Company, New York, N. Y. Safety-razor blades. 284,249; Nov. 18. Class 23.

Shatterproof Glass Co., The, Detroit, Mich. Glass. 289,995; Nov. 18. Class 33.

Silten, Ernst, Berlin, Germany. Liquid for asthma, laryngitis, etc. 305,882; Nov. 18. Class 6.

Simplex Manufacturing Company, doing business as Simplex Mfg. Co., St. Louis, Mo. Infants' bathing, sponging, etc., dressing tables. 305,798; Nov. 18. Class 32.

Skinner & Kennedy Printing Company, St. Louis, Mo. Bond paper. 305,463; Nov. 18. Class 37.

Smith, Alice, New York, N. Y. Kitchen cabinets. 298,466; Nov. 18. Class 32.

Smith Welding Equipment Corporation, Minneapolis, Minn. Oxyacetylene welding and cutting tips and equipment. 289,765; Nov. 18. Class 34.

Snell Milling Co., The, Nashville, Tenn. Wheat flour. 300,445; Nov. 18. Class 46.

Soft-Lite Lens Co., Inc., New York, N. Y. Ophthalmic lenses and blanks. 305,146; Nov. 18. Class 26.

Sohn Oppenheimer & Co., New York, N. Y. Clothing. 306,018; Nov. 18. Class 39.

South Jersey Home Service. (See Vine, Benjamin.)

Spitz, Arnstein & Co. Inc., New York, N. Y. Candies. 306,510; Nov. 18. Class 46.

Stanbery, Gertrude W., Deerfield, Mich. Metal polish and metal-polishing cloths. 305,457; Nov. 18. Class 4.

Standard Brands Incorporated, New York, N. Y. Coffee. 298,860; Nov. 18. Class 46.

Stanley Works, The, New Britain, Conn. Strip-steel strapping. 298,467; Nov. 18. Class 13.

Statesville Flour Mills Co., Statesville, N. C. Wheat flour. 305,092; Nov. 18. Class 46.

Sun-Gloss Auto Products Co., St. Louis, Mo. Polish. 301,525; Nov. 18. Class 16.

Superior Laboratories, Inc., Cleveland, Ohio. Cream preparation for relieving foot irritation, aching, itching, and soreness. 305,986; Nov. 18. Class 6.

Sykes, Alexander L., doing business as The International Cordage & Yarn Co., New York, N. Y. Rope. 273,330–31; Nov. 18. Class 7.

Tar Products Corporation, Providence, R. I. Insecticides and deodorants. 306,752; Nov. 18. Class 6.

Telkor, Inc., Elyria, Ohio. Cable-armor cutters. 299,604; Nov. 18. Class 23.

Templeton, Arthur H., Dunedin, New Zealand. Aerators used as and attachment for milk and cream pasteurizers, regenerators, and the like. 305,021; Nov. 18. Class 23.

Tharp, Clark A., Leavenworth, Kans. Copyholders for typists. 303,226; Nov. 18. Class 37.

Thermolene Properties. (See Floyd, Carl.)

Thomas, Albert G., doing business as The Thomas Chemical Co., Lynchburg, Va. Ointments. 305,592; Nov. 18. Class 6.

Transformer Corporation of America, Chicago, Ill. Cabinets for phonographs and radio receiving sets. 305,253; Nov. 18. Class 32.

Tropical Paint and Oil Company, The, Cleveland, Ohio. Cleaner. 303,406; Nov. 18. Class 4.

Turn-Rite Process Co., Inc., Philadelphia, Pa. Shoe lasts. 306,329; Nov. 18. Class 50.

U-Ortu-Coat Products Co., New York and Brooklyn, N. Y. Varnishes, paint enamels, lacquers, etc. 303,585; Nov. 18. Class 16.

Unit Electric Tool Co., Inc., Syracuse, N. Y. Portable power-driven routers. 303,982; Nov. 18. Class 23.

United Chemical Company, Iowa City, Iowa, Iowa City, Iowa. Lubricating oils and greases. 305,467; Nov. 18. Class 15.

United States Infantry Association, Washington, D. C. Periodical. 306,625; Nov. 18. Class 38.

United States Rubber Company, New York, N. Y. Finger cots. 305,739; Nov. 18. Class 44.

Upson-Walton Company, The, Cleveland, Ohio. Waterproof flax, flax duck, and canvas. 301,076–9; Nov. 18. Class 50.

Van Raalte Company, New York, N. Y. Underwear. 306,332; Nov. 18. Class 39.

Vernor, James, Company, Detroit, Mich. Ginger ale. 305,948; Nov. 18. Class 45.

Victor Manufacturing & Gasket Co., Chicago, Ill. Gaskets. 299,607; Nov. 18. Class 35.

Vine, Benjamin, doing business as South Jersey Home Service, Woodstown, N. J. Greeting cards. 303,865; Nov. 18. Class 38.

Water Motoring, Inc., Waukegan, Ill. Publication. 306,584; Nov. 18. Class 38.

Weaver-Jackson Company, Los Angeles, Calif. Salve. 305,503; Nov. 18. Class 6.

West India Oil Company, Bayonne, N. J. Candles. 305,331; Nov. 18. Class 15.

Western Printing & Lithographing Company, Racine, Wis. Playing cards. 306,076–7; Nov. 18. Class 22.

Whitney-Eckstein Seed Co., The, Buffalo, N. Y. Bird food. 305,428; Nov. 18. Class 46.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Wicaco Machine Corporation, Philadelphia, Pa. Spindles, bushings, worm gears, gear blanks, etc. 303,456; Nov. 18. Class 23.
Wong, Wing Y, Oakland, Calif. Medicinal preparation. 304,987; Nov. 18. Class 6.
Wood, J. R., & Sons, Inc., New York, N. Y. Jewelry. 303,869; Nov. 18. Class 28.
Zoological Meat Supply Co., Center Line, Mich. Canned animal food. 304,482; Nov. 18. Class 46.
Zucca's Food Products Corp., New York, N. Y. Prepared foods. 302,713; Nov. 18. Class 46.
Zucca's Food Products Corp., New York, N. Y. Spaghetti. 302,714; Nov. 18. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Philadelphia and Reading Coal and Iron Company. 277,609; Nov. 18.
Coal. Philadelphia and Reading Coal and Iron Company. 277,616; Nov. 18.
Diamonds, Noncut industrial. D. Van Itallie. 277,649; Nov. 18.
Seeds. J. G. Peppard Seed Company. 277,641; Nov. 18.
Seeds, Sugar-beet. Querfurter Zuckerrübensamenzucht Bergmann & Co., G. m. b. H. 277,634; Nov. 18.

CLASS 2

Cans and baskets, Stamped and pressed sheet-metal. Rochester Can Company. 80,806; renewed Jan. 31, 1931.
Vacuum jars for the storage of food products. Eskimo Pie Corporation. 277,555; Nov. 18; Serial No. 303,599.

CLASS 3

Hardware. Oneida Community, Limited. 35,675; renewed Dec. 25, 1930.

CLASS 4

Chemical, pharmaceutical, and surgical products and preparations. J. A. Sander. 35,639; renewed Dec. 25, 1930.
Cleaning materials. Lester Brothers Limited. 35,228; renewed Oct. 9, 1930.
Cleaning substances and compounds. Electric Compound Co. 77,910; renewed May 17, 1930.
Compound for currying leather. Vacuum Oil Company. 35,232; renewed Oct. 9, 1930.
Detergents. United Drug Company. 80,880; renewed Feb. 7, 1931.
Soap. Barclay & Barclay. 80,022; renewed Nov. 1, 1930.
Washing crystals. H. Dubin. 277,546; Nov. 18; Serial No. 302,673; published Aug. 26, 1930.

CLASS 6

Astringents, beauty creams, cold creams, etc. Woodworth, Inc. 277,645; Nov. 18.
Chemical compound for purifying acetylene. Deutsche Gold & Silber Scheide-Anstalt, vormals Rössler. 35,667; renewed Dec. 25, 1930.
Chemical for promoting combustion. Kleanheat Coal Processing Corporation. 277,628; Nov. 18.
Chemicals. Badische Anilin & Soda Fabrik. 80,338; renewed Dec. 13, 1930.
Corn, bunion, and callus pads. Kendall Company. 277,545; Nov. 18; Serial No. 302,688; published Aug. 5, 1930.
Cosmetics, baby powder, medicinal preparations, etc. Morton Manufacturing Corporation. 277,623; Nov. 18.
Creams and waters, and hair tonics, Toilet. General Drug Company. 80,911; renewed Feb. 14, 1931.
Creams, Skin. G. W. Tritle. 277,615; Nov. 18.
Finger-waving lotion, brilliantine, etc. Semon, Inc. 277,538; Nov. 18; Serial No. 302,048; published July 15, 1930.
Incense. J. Goldenstein. 277,640; Nov. 18.
Insecticide. M. & B. Products Co. 277,602; Nov. 18; Serial No. 296,354; published Apr. 1, 1930.
Lotion, Eye. G. W. Carnrick. 35,840; renewed Jan. 29, 1931.
Medicated bathing fluid. G. Bückle. 35,400; renewed Nov. 13, 1930.
Medicated bathing liquids. G. Bückle. 35,200; renewed Oct. 2, 1930.
Medicinal ointment. Dr. E. S. Erickson. 277,630; Nov. 18.
Medicinal preparation. W. H. Bull Medicine Company. 80,703; renewed Jan. 24, 1931.
Medicinal preparation and a cream. J. A. Baker. 79,184; renewed Aug. 16, 1930.
Medicinal tonic. Hoffmann-La Roche Chemical Works. 80,718; renewed Jan. 24, 1931.
Medicine. E. S. Sloan. 35,406; renewed Nov. 13, 1930.
Medicine for the cure of consumption. Bendiner & Schlesinger. 36,042; renewed Mar. 12, 1931.
Medicine for the treatment of headaches, colds, etc. J. Rosen. 277,576; Nov. 18; Serial No. 287,412; published Feb. 4, 1930.
Oil preparations, Cod-liver. Henry K. Wampole & Co. 35,808; renewed Jan. 22, 1931.
Oxygen compounds of chromium. Harshaw Chemical Company. 277,647; Nov. 18.
Pills, Laxative. W. T. Hanson Co. 81,265; renewed Mar. 21, 1931.
Plasters, Corn and bunion. R. S. Starks. 79,165; renewed Aug. 9, 1930.
Potassium guiacol sulfonate. Hoffmann-La Roche Chemical Works. 80,717; renewed Jan. 24, 1931.
Preparation for local treatment of the feet. American Burma Co. 277,643; Nov. 18.
Product having antiseptical properties. Hoffmann-La Roche Chemical Works. 80,719; renewed Jan. 24, 1931.
Remedies for headache. General Drug Company. 80,651; renewed Jan. 17, 1931.
Remedies for the treatment of diseases of the vagina, ovaries, and womb. F. F. Froatz. 80,590; renewed Jan. 10, 1931.
Starch, Laundry. Corn Products Refining Company. 80,462; renewed Dec. 27, 1930.

CLASS 10

Fertilizer refills. Vex Sales Corporation. 277,536; Nov. 18; Serial No. 302,294; published Sept. 2, 1930.

CLASS 12

Bricks. Fiske & Company. 277,542; Nov. 18; Serial No. 301,609; published Sept. 2, 1930.
Compound, Precipitating and waterproofing. Sullivan Co. 277,612; Nov. 18.
Lime, White and hydrated. Marblehead Lime Co. 277,606; Nov. 18; Serial No. 295,490; published May 13, 1930.
Plaster of Paris. J. B. King & Co. 80,280; renewed Nov. 29, 1930.
Roofing. Barrett Company. 277,544; Nov. 18; Serial No. 301,007; published Sept. 2, 1930.

CLASS 13

Equipment, Kitchen. Nathan Straus & Sons, Inc. 277,617; Nov. 18.
Hardware and metal articles. Wire Goods Company. 78 753; renewed July 5, 1930.
Nozzles and hose-line couplings of bronze and brass castings and forgings, Fire-hose. Akron Brass Mfg. Co. 277,610; Nov. 18.

CLASS 15

Oils, greases, and kerosene. Eagle Liquid Gas & Oil Company. 277,578; Nov. 18; Serial No. 287,124; published Dec. 3, 1929.
Oils, Lubricating. W. D. Ellis. 35,149; renewed Sept. 25, 1930.
Oils, Lubricating. Standard Oil Company of New York. 80,385; renewed Dec. 13, 1930.
Petroleum for illuminating, heating, etc. Standard Oil Company of New York. 80,386; renewed Dec. 13, 1930.

CLASS 16

Colors and artists' varnishes, Artists'. George Rowney & Co. 80,495; renewed Dec. 27, 1930.
Iron enamel. Black Silk Stove Polish Works. 80,104; renewed Nov. 8, 1930.
Paint, Aluminum. Asphalt Products Co. 277,581; Nov. 18; Serial No. 285,006; published May 6, 1930.
Paints. James A. McCafferty & Sons Manufacturing Company. 277,587; Nov. 18; Serial No. 262,475; published Aug. 14, 1928.
Paints, stains, and varnishes. Geo. Sproull Company. 277,573; Nov. 18; Serial No. 289,848; published Feb. 11, 1930.
Plastic composition. H. B. F. Kuhls. 77,737; renewed May 3, 1930.
Polish, Wood. B. Miller. 79,921; renewed Oct. 18, 1930.

CLASS 17

Cigars. Hemmeter Cigar Co. 80,594; renewed Jan. 10, 1931.
Cigars. Hemmeter Cigar Co. 81,146; renewed Mar. 7, 1931.
Tobacco. Bloch Brothers Tobacco Company. 35,861; renewed Feb. 5, 1931.

CLASS 19

Automobiles and constructive parts thereof. Checker Cab Manufacturing Corporation. 277,584; Nov. 18; Serial No. 275,256; published Oct. 8, 1929.

CLASS 21

Batteries, Storage. Vesta Battery Corporation. 277,575; Nov. 18; Serial No. 289,051; published Oct. 15, 1929.
Telephones, telephone switchboards, etc. Dean Electric Company. 79,263; renewed Aug. 23, 1930.
Transformers, Electrical. Motorless Direct-Current Neon Sign Co. 277,543; Nov. 18; Serial No. 301,190; published Sept. 2, 1930.

CLASS 22

Agates and marbles. M. Gropper & Sons, Inc. 277,593; Nov. 18; Serial No. 299,707; published Aug. 26, 1930.
Bait, Artificial. Enterprise Manufacturing Company. 277,558; Nov. 18; Serial No. 303,370; published Aug. 26, 1930.
Balls, Tennis and rubber. J. W. Paton. 277,603; Nov. 18; Serial No. 296,287; published Sept. 2, 1930.
Card, Punch. R. S. Cooney. 277,600; Nov. 18; Serial No. 297,587; published Sept. 2, 1930.
Fishing lines, exercising apparatus. Moosehead-Whitely Exerciser Company. 277,580; Nov. 18; Serial No. 285,219; published Aug. 12, 1930.
Fishing rods. Gephart Manufacturing Co. 277,588; Nov. 18; Serial No. 300,869; published Aug. 12, 1930.
Game, Playing-card. S. D. Bell. 277,598; Nov. 18; Serial No. 298,074; published Aug. 26, 1930.
Games. Milton Bradley Company. 277,566; Nov. 18; Serial No. 302,889; published Sept. 2, 1930.
Golf balls. St. Mungo Manufacturing Company. 81,302–3; renewed Mar. 21, 1931.
Golf balls. Walgreen Company. 277,530; Nov. 18; Serial No. 302,500; published Aug. 12, 1930.
Pools and sand boxes, Portable play. Hettrick Manufacturing Company. 277,533; Nov. 18; Serial No. 302,396; published Aug. 26, 1930.
Reels, Fishing and casting. South Bend Bait Company. 277,557; Nov. 18; Serial No. 303,390; published Aug. 26, 1930.
Sails used for skating. Hettrick Manufacturing Company. 277,534; Nov. 18; Serial No. 302,392; published Sept. 2, 1930.
Skis, ski poles, hockey sticks, etc. C. A. Lund. 277,642; Nov. 18.
Spinners, fishing lines, fishing poles, etc. C. B. Hertzel. 27,579; Nov. 18; Serial No. 286,634; published Aug. 26, 1930.

CLASS 23

Bolt clippers. H. K. Porter. 35,672; renewed Dec. 25, 1930.
Cutlery and edge tools. Heinrich Böker & Co. 34,605; renewed May 1, 1930.
Files and hand tools. American Swiss File & Tool Company. 35,700–1; renewed Jan. 1, 1931.
Files and hand tools. American Swiss File & Tool Company. 35,942; renewed Feb. 19, 1931.
Machinery and parts. Fisher Governor Company. 80,117; renewed Nov. 8, 1930.
Machinery and supplies, Road-building. Acme Road Machinery Company. 35,205; renewed Oct. 2, 1930.
Machines for applying labels to the body of bottles and the like. National Labeling Machine Co. 277,583; Nov. 18; Serial No. 276,895; published Aug. 6, 1929.
Machines, tools, and parts thereof. Aktiebolaget B. A. Hjorth & Co. 80,567; renewed Jan. 10, 1931.
Milling cutters, reamers, drills, etc. Arthur A. Crafts & Co. 277,614; Nov. 18.
Scoops, Ice-cream. G. C. White. 277,635; Nov. 18.
Screw drivers. Stanley Works. 277,585; Nov. 18; Serial No. 274,742; published Mar. 19, 1929.
Shears. W. H. Compton Shear Co. 277,622; Nov. 18.
Tools, Boring mill, planer and shaper, lathe, and turning. Ready Tool Company. 81,138; renewed Mar. 7, 1931.

CLASS 26

Calculating machines. Grimme, Natalis & Co., Kommanditgesellschaft auf Aktien. 80,313; renewed Dec. 6, 1930.
Draftmen's supplies. Eugene Dietzgen Company. 81,057; renewed Feb. 28, 1931.
Instruments and machines. A. Molt. 80,435; renewed Dec. 20, 1930.
Mathematical and drawing instruments. Keuffel & Esser Company. 35,513; renewed Dec. 4, 1930.
Patterns, Dress. Simplicity Pattern Company. 277,639; Nov. 18.

CLASS 27

Clocks and watches. Western Clock Mfg. Co. 80,503; renewed Dec. 27, 1930.
Watchcases, watches, and watch movements. Keystone Watch Case Company. 81,081; renewed Feb. 28, 1931.

CLASS 28

Jewelry. Automatic Gold Chain Co. 277,625; Nov. 18.
Jewelry. Speidel Chain Co. 277,644; Nov. 18.
Pins, finger rings, bracelets, etc., Fraternity. Kappa Psi. 277,589; Nov. 18; Serial No. 300,796; published July 29, 1930.
Vanities, compact boxes, perfume containers, etc. Elgin American Manufacturing Co. 277,594; Nov. 18; Serial No. 299,565; published Aug. 19, 1930.

CLASS 29

Brooms. Merkle-Wiley Broom Co. 81,349; renewed Mar. 28, 1931.
Brushes, Automobile. W. R. Nightingale. 277,613; Nov. 18.

CLASS 30

Chinaware. Greenwood Pottery Co. 80,526; renewed Jan. 3, 1931.
Porcelain, crockery, and earthenware, Articles of. Société Anonyme Haviland & Co. 277,592; Nov. 18; Serial No. 299,934; published Aug. 12, 1930.
Teapots, coffeepots, etc. Hall China Co. 277,605; Nov. 18; Serial No. 295,844; published Apr. 22, 1930.

CLASS 33

Bottles, Prescription. Obear-Nester Glass Company. 35,303; renewed Oct. 23, 1930.
Glassware. Sloan Brothers. 277,570; Nov. 18; Serial No. 302,698; published Sept. 2, 1930.

CLASS 34

Dampers for hot-air pipes and smoke pipes. S. M. Howes Company. 35,482; renewed Nov. 20, 1930.
Stoves, ranges, furnaces, and heaters. White-Warner Company. 80,451; renewed Dec. 20, 1930.

CLASS 35

Inner tubes. Goodyear Tire & Rubber Company. 277,638; Nov. 18.

CLASS 37

Labels, Gummed. Oxford Filing Supply Co. 277,618; Nov. 18.
Paper and envelopes. Union Card & Paper Co. 81,182; renewed Mar. 7, 1931.
Pens, Fountain. L. E. Waterman Company. 35,849; renewed Feb. 5, 1931.
Stationary, Articles of. George Rowney & Co. 80,954; renewed Feb. 14, 1931.
Tracing cloth. Winterbottom Book Cloth Company Limited. 277,620–1; Nov. 18.
Wall papers. Richard E. Thibaut, Incorporated. 277,632; Nov. 18.

CLASS 39

Boots and shoes. Friedman Bros. Shoe Co. 35,908; renewed Feb. 19, 1931.
Boots and shoes, Rubber. Apsley Rubber Company. 35,167; renewed Oct. 2, 1930.
Clothing. Harris-Lipsitz Company. 80,917; renewed Feb. 14, 1931.
Clothing. Shull-Day Co. 79,161; renewed Aug. 9, 1930.
Hosiery. Brown Durrell Co. 79,555; renewed Sept. 20, 1930.

CLASS 42

Bedspreads. Sears, Roebuck and Co. 277,556; Nov. 18; Serial No. 303,494; published Aug. 26, 1930.
Cotton and woolen piece goods. Sayles Finishing Plants, Inc. 277,549; Nov. 18; Serial No. 302,516; published Aug. 19, 1930.
Cotton, linen, artificial and natural silk goods, etc. Marvlo Mills, Inc. 277,531; Nov. 18; Serial No. 302,438; published Aug. 12, 1930.
Cotton piece goods. National Cloak & Suit Company. 81,284; renewed Mar. 21, 1931.
Cotton piece goods. William Whitman Company, Inc. 277,560; Nov. 18; Serial No. 303,076; published Aug. 12, 1930.
Embroidered piece goods. A. J. Norris. 277,559; Nov. 18; Serial No. 303,295; published Aug. 26, 1930.
Fabrics. Duplan Silk Corporation. 277,552; Nov. 18; Serial No. 303,803; published Sept. 2, 1930.
Fabrics in the piece, Pile. Sidney Blumenthal & Co. Inc. 277,577; Nov. 18; Serial No. 287,278; published Aug. 12, 1930.
Ginghams. Parkhill Manufacturing Company. 80,677; renewed Jan. 17, 1931.
Handkerchiefs. Western Bottle Mfg. Co. 277 548; Nov. 18; Serial No. 302,607; published Aug. 19, 1930.
Linen and cotton piece goods. Matthew W. Ryan Sons & Co. Inc. 277,539; Nov. 18; Serial No. 302,032; published Aug. 12, 1930.
Piece goods. Arthur Beir & Co. 277,608; Nov. 18; Serial No. 293,024; published Jan. 14, 1930.
Piece goods. M. Dassonville. 277,601; Nov. 18; Serial No. 296,637; published Sept. 2, 1930.
Rugs and carpets. Textile Refinishing Laboratories, Inc. 277,567–8; Nov. 18; Serial Nos. 302,838–9; published Aug. 26, 1930.
Sheets, pillowcases, blankets, etc. Kirby, Block & Fischer, Inc. 277,541; Nov. 18; Serial No. 301,946; published Aug. 26, 1930.
Silk crepe in the piece, plain and fancy tinsel. Coudurier, Fructus & Descher. 277,553; Nov. 18; Serial No. 303,801; published Sept. 2, 1930.
Silk piece goods. Empire Silk Company. 277,535; Nov. 18; Serial No. 302,376; published Aug. 12, 1930.
Silk piece goods. Empire Silk Company. 277,554; Nov. 18; Serial No. 303,711; published Sept. 2, 1930.
Silk piece goods. Foremost Fabrics Corporation. 277,551; Nov. 18; Serial No. 303,807; published Sept. 2, 1930.

Silk piece goods. Jansen & Pretzfeld, Inc. 277,550; Nov. 18; Serial No. 303,814; published Sept. 2, 1930.
Silk piece goods. Majestic Silk Mills, Inc. 277,562; Nov. 18; Serial No. 302,956; published Aug. 12, 1930.
Silk velvets and velvets in the piece. J. B. Martin Company. 277,591; Nov. 18; Serial No. 300,531; published Aug. 26, 1930.
Textile rugs. Artloom Corporation. 277,648; Nov. 18.
Wool, cotton, rayon, and silk knitted fabric. Continental Mills Inc. 277,563; Nov. 18; Serial No. 302,933; published Sept. 2, 1930.
Woolen goods in the piece and in cut lengths. S. Stein & Co. 277,532; Nov. 18; Serial No. 302,417; published Aug. 19, 1930.
Woolen piece goods. Forstmann & Huffmann Company. 277,537; Nov. 18; Serial No. 302,245; published Aug. 19, 1930.
Worsted and woolen fabrics. Holden-Leonard Company. 277,596; Nov. 18; Serial No. 299,123; published Aug. 19, 1930.

CLASS 43

Cotton, Spool. Blodgett & Orswell Co. 81,245; renewed Mar. 21, 1931.
Yarn, Synthetic. Viscose Company. 277,564; Nov. 18; Serial No. 302,922; published Aug. 19, 1930.

CLASS 45

Beverages and extracts, syrups, and concentrates for making the same. R. R. Scales. 277,574; Nov. 18; Serial No. 289,693; published Oct. 29, 1929.
Beverages, Mineral water and nonalcoholic. Duquesne Distributing Company, Incorporated. 35,412; renewed Nov. 13, 1930.

CLASS 46

Apples, Fresh. Wenatchee District Co-Operative Association. 277,629; Nov. 18.
Baked goods. C. L. Best. 277,572; Nov. 18; Serial No. 290,811; published May 20, 1930.
Bakery products. Cone Confection Co. 277,595; Nov. 18; Serial No. 299,497; published Sept. 2, 1930.
Bread. J. W. C. Hayes. 277,646; Nov. 18.
Candy. Peoples Drug Stores, Inc. 277,633; Nov. 18.
Candy, salted peanuts, and peanut butter. Allen & Smith Company. 277,547; Nov. 18; Serial No. 302,664; published Sept. 2, 1930.
Canned edible seaweed, canned and dried vegetables, etc. Mitsuwa Company. 277,540; Nov. 18; Serial No. 301,988; published Sept. 2, 1930.
Canned fruits and vegetables. Continental Fruit Packing Co. 80,108–9; renewed Nov. 8, 1930.
Canned fruits and vegetables. J. H. Hoffecker Canning Company. 80,922; renewed Feb. 14, 1931.
Canned pineapple. Haiku Fruit and Packing Company. 79,906; renewed Oct. 18, 1930.
Canned vegetables. H. H. Brakeley, jr. 277,582; Nov. 18; Serial No. 279,722; published Apr. 23, 1929.
Cereal. Robinson-Danforth Milling Company. 35,569; renewed Dec. 11, 1930.
Cheese. Gerber & Company. 277,650; Nov. 18.
Cheese. F. J. Kolb. 277,571; Nov. 18; Serial No. 292,672; published Jan. 7, 1930.
Coconut, Prepared. Franklin Baker Company. 277,604; Nov. 18; Serial No. 295,991; published Apr. 1, 1930.
Coffee, tea, spices, etc. Edw. A. Apffel Co. 277,619; Nov. 18.
Comino powder, garlic powder, onion powder, etc. Walker Properties Association. 277,561; Nov. 18; Serial No. 303,017; published Sept. 2, 1930.
Compound of corn syrup and refiner's syrup and imitation fruit jelly. Corn Products Refining Company. 80,630; renewed Jan. 10, 1931.
Currants. Hills Brothers Company. 79,909; renewed Oct. 18, 1930.
Doughnut mixture. Beaf-Stewart Co. 277,627; Nov. 18.
Eggs and egg products. Amos Bird Co. 277,597; Nov. 18; Serial No. 298,879; published Sept. 2, 1930.
Feed, Stock and poultry. Feeders Supply and Manufacturing Co. 277,626; Nov. 18.
Flour, Wheat. Duluth Universal Mill Company. 35,219; renewed Oct. 9, 1930.
Flour, Wheat. Duluth Universal Mill Company. 35,472; renewed Nov. 20, 1930.
Flour, Wheat. Vicotia Elevator Co. 277,636; Nov. 18.
Food drink, Chocolated malted. Krem-Ko Company. 277,607; Nov. 18; Serial No. 294,074; published Sept. 2, 1930.
Food products, flavoring extracts. Morton Manufacturing Corporation. 277,624; Nov. 18.
Foods, Canned. Seacoast Canning Company. 277,631; Nov. 18.
Fruit, Dried or evaporated. U. H. Dudley & Co. 35,530; renewed Dec. 4, 1930.
Jelly powder. Peerless Sal-O-Well Co. 277,586; Nov. 18; Serial No. 262,926; published June 12, 1928.
Macaroni, spaghetti, and noodles. National Macaroni Manufacturers Association. 277,599; Nov. 18; Serial No. 298,036; published May 13, 1930.
Milk and ice-cream mix. Meyenberg Laboratories, Inc. 277,637; Nov. 18.
Milk, Specially-prepared dried. Mead Johnson & Company. 277,565; Nov. 18; Serial No. 302,905; published Sept. 2, 1930.
Molasses. American Molasses Co. of New York. 277,569; Nov. 18; Serial No. 302,802; published Sept. 2, 1930.
Oils, Cottonseed. American Cotton Oil Company. 35,296; renewed Oct. 23, 1930.
Oils, Cottonseed. American Cotton Oil Company. 35,435; renewed Nov. 13, 1930.
Oils, Cottonseed. American Cotton Oil Company. 35,436–7; renewed Nov. 13, 1930.
Oils, Cottonseed. American Cotton Oil Company. 35,439; renewed Nov. 13, 1930.
Packing-house products. Libby, McNeill & Libby. 35,602; renewed Dec. 18, 1930.
Peaches, Fresh. W. D. Lamar. 277,611; Nov. 18.
Preserved or canned goods. Fred Wolferman. 36,119; renewed Mar. 26, 1931.
Syrup. Abram Lyle & Sons, Limited. 35,185; renewed Oct. 2, 1930.
Syrup, Maple. D. W. Chambers. 277,590; Nov. 18; Serial No. 300,709; published Sept. 2, 1930.
Teas. Great Atlantic and Pacific Tea Company, The. 80,913; renewed Feb. 14, 1931.
Wheat and barley breakfast foods, Prepared. Postum Cereal Co. 80,492; renewed Dec. 27, 1930.

CLASS 48

Beer. Gabriel Sedlmayr, Brauerei zum Spaten. 79,794; renewed Oct. 4, 1930.
Beer, Bottled. A. Schreiber Brewing Company. 80,443; renewed Dec. 20, 1930.

CLASS 49

Orange bitters. Booth's Distillery Limited. 79,552; renewed Sept. 20, 1930.

ALPHABETICAL LIST OF LABELS

Anagram Dice. For Game Apparatus Employing Lettered Blocks. Embossing Company. 38,252; Nov. 18.
Bond Bread. For Bread. General Baking Company. 38,255; Nov. 18.
Bond Bread Sliced. For Bread. General Baking Company. 38,254; Nov. 18.
Changlo. For Hair Nets. Renllo Company. 38,267; Nov. 18.
Cherry Home Red Sour Pitted Cherries. For Canned Red Sour Pitted Cherries. Haserot Company. 38,257; Nov. 18.
Columbia Brand Ammonia. For Ammonia. Columbia Chemical Company. 38,249; Nov. 18.
Dugan's Sponge Cake Layers. For Sponge Cake. Dugan Brothers, Inc. 38,250; Nov. 18.
Fort Pitt Radio Hour. For Lager Brew. Fort Pitt Brewing Company. 38,253; Nov. 18.
Home Made Fruit Cake. For Fruit Cake. Dugan Brothers, Inc. 38,251; Nov. 18.
Ice Cream. For Ice Cream. Sutherland Paper Company. 38,269; Nov. 18.
Ida-Best. For Fresh Apples. Chaney & Rowell, Inc. 38,248; Nov. 18.
Krank. For Skin Creams. A. J. Krank Co. 38,262; Nov. 18.
Life Guard. For Prophylactic Articles, etc. L. Lederer. 38,263; Nov. 18.
Nestle Superset Finger Waving Lotion. For Finger-Waving Lotions. Nestle-Le Mur Company. 38,265; Nov. 18.
Nu-Jems. For Whole Brown Rice. Jersey Cereal Company. 38,259; Nov. 18.
Our Gang Playthings. For Playthings. Gray Lithograph Company. 38,256; Nov. 18.
Oyl-Agar. For Medicinal Preparation Used as a Laxative. Phillip M. Caul & Company. 38,247; Nov. 18.
Punch-Ola. For Preparation for Making a Fruit-Flavored Drink or Ice. B. Heller & Company. 38,258; Nov. 18.
Rolled Whole Wheat. For Rolled Wheat. Jersey Cereal Company. 38,261; Nov. 18.
Royal Dutch. For Malt Syrup. J. C. Millett & Company. 38,264; Nov. 18.
Seabird. For Canned Salmon. Point Adams Packing Co. 38,266; Nov. 18.
Tang Tang. For Candy. Tang Tang Industries, Inc. 38,270; Nov. 18.
Token. For Coffee. Standard Branda Incorporated. 38,268; Nov. 18.
Wheat and Bran. For Toasted Whole-Wheat and Bran Flakes. Jersey Cereal Company. 38,260; Nov. 18.

ALPHABETICAL LIST OF PRINTS

Air Flight Principle Tires. For Fisk Tires. Fisk Tire Co. Inc. 12,813; Nov. 18.
Buy All That You Need For Washday Now! For Laundry Product. General Foods Corp. 12,815; Nov. 18.
Drink Moxie. For Moxie a Beverage. Moxie Co. 12,819; Nov. 18.
Dugan's Pumpkin Pies and Doughnuts a Real Treat For Halloween. For Pumpkin Pies and Doughnuts. Dugan Brothers, Inc. 12,811; Nov. 18.
Featuring the Four Newest Designs of Grace Tancill Creations in Jersey. For Dresses. G. Tancill. 12,823; Nov. 18.
Keeps Your Skin Beautiful. For Face Powder. Mello-Glo Co. 12,816; Nov. 18.
Like Riding On Air. For Fisk Tires. Fisk Tire Co. Inc. 12,814; Nov. 18.
Losses Are Never Taken On Our Dresses. For Women's and Misses' Frocks, Dresses, and Gowns. C. H. D. Robbins Company. 12,822; Nov. 18.
Noxzema for Sunburn. For Noxzema. Noxzema Chemical Co. 12,820; Nov. 18.
Orthogon Paint Book. For Ophthalmic Lenses. Bausch & Lomb Optical Company. 12,808; Nov. 18.
Post-A-Graph. For Printed Blanks. Postagraph Co. 12,821; Nov. 18.
Prevents Large Pores. For Face Powder. Mello-Glo Co. 12,818; Nov. 18.
"Ride The Air" On The Highways. For Fisk Tires. Fisk Tire Co. Inc. 12,812; Nov. 18.
So Refreshing! For Coca-Cola. Coca-Cola Company. 12,810; Nov. 18.
Stays On Longer. For Face Powder. Mello-Glo Co. 12,817; Nov. 18.
This Emblem Means Quality Products Baked Right Here. For Bakery Products. Chicago Master Baker's Association. 12,809; Nov. 18.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 18TH DAY OF NOVEMBER, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abson, Gene, assignor to Chicago Paving Laboratory, Inc., Chicago, Ill. Asphaltic material and process for manufacture. 1,782,186; Nov. 18.

Accounting & Tabulating Corporation of Great Britain, Limited, The. (See Thomas, A., and Hallahan, assignors.)

Acme Motion Picture Projector Company. (See Pondelicek, Jerry J., assignor.)

Adams, Harold S., Larchmont, N. Y., and L. Meuser, Bound Brook, N. J., assignors to The Naugatuck Chemical Company, Naugatuck, Conn. Manufacturing tetraalkylated thiuramdisulphides. 1,782,111; Nov. 18.

Adams, Harold S., Larchmont, N. Y., and L. Meuser, Bound Brook, N. J., assignors to The Naugatuck Chemical Company, New Haven, Conn. Treating mixtures of amines. 1,782,112; Nov. 18.

Adams, James W., Bradford, England. Centrifugal liquid purifier. 1,781,676; Nov. 18.

Aeolian Company, The. (See Dickinson, Joseph H., assignor.)

Agfa Ansco Corporation. (See Eggbert, J., Schmidt, and Wendt, assignors.)

Ajax Electrothermic Corporation. (See Linnhoff, Franz, assignor.)

Akers, Axel, assignor to Quality Hardware & Machine Corporation, Chicago, Ill. Multiple-mixture die-casting method and machine. 1,781,939; Nov. 18.

Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie. (See Flatt, Fritz, assignor.)

Albersheim, Walter J., and H. S. Konheim, New York, N. Y. Shock absorber. 1,782,113; Nov. 18.

Alderson, Herbert J., Toronto, Ontario, assignor of forty-five per cent to J. Legge, Lampton Park, Ontario, Canada. Reciprocating engine. 1,781,831; Nov. 18.

Alemite Corporation. (See Davis, Ernest W., assignor.)

Alemite Corporation. (See Thomas, G. F., and Herb, assignors.)

Alexander, Roy W., Newark, N. J. Straining attachment for pans and kettles. 1,781,995; Nov. 18.

Allard, J. A., jr., et al. (See Anglemeyer, Herman B., assignor.)

Allcock-Laight & Westwood Co., The. (See Jensen, John E., assignor.)

Allegheny Steel Company. (See Detwiler, William F., assignor.)

Alleman, Gellert, Swarthmore, Pa., assignor to Sun Oil Company, Philadelphia, Pa. Manufacturing color lakes from petroleum. 1,781,772; Nov. 18.

Allen, Guy L., Dallas, Tex. Elevator-door-operating apparatus. 1,782,223; Nov. 18.

Allen, John W., Fresno, Calif. Cotton chopper. 1,781,829; Nov. 18.

Allen, Samuel E., Pittsburgh, Pa. Tag-making machine. 1,782,086; Nov. 18.

Allen, Scott E., and O. N. Wiswell, assignors, by mesne assignments, to C-O-Two Fire Equipment Company, Los Angeles, Calif. Head for puncturing closure disks. 1,782,020; Nov. 18.

Allen, Scott E., and O. N. Wiswell, assignors, by mesne assignments to C-O-Two Fire Equipment Company, Los Angeles, Calif. Gas-operated screw-type head for puncturing closures. 1,782,021; Nov. 18.

Allen, Scott E., and O. N. Wiswell, assignors, by mesne assignments, to C-O-Two Fire Equipment Company, Los Angeles, Calif. Gas-pressure means for releasing connections. 1,782,022; Nov. 18.

Alliance Manufacturing Company. (See Clark, Harold W., assignor.)

Allied Die-Casting Corporation. (See Cook, George W., assignor.)

Allyn, Robert S. (See Simmons, John W., assignor.)

Allyne, Edmund E., as trustee. (See Larsen, Harry E., assignor.)

Altorfer, Alpheus W., Peoria, assignor to Altorfer Bros. Company, East Peoria, Ill. Laundry apparatus. 1,782,224; Nov. 18.

Altorfer Bros. Company. (See Altorfer, Alpheus W., assignor.)

Amdyco Corporation. (See Palmer, Walter, assignor.)

American Cable Company. (See Conner, Edward A., assignor.)

American Floor Surfacing Machine Company, The. (See Wolfe, H. H., and Myers, assignors.)

American Flyer Mfg. Co. (See Becker, Harry S., assignor.)

American Sales Book Company. (See Pringle, W. A., and Hagerman, assignors.)

Ancira, Gonazalo, Houston, Tex. Sundial. 1,782,114; Nov. 18.

Anderson, Helmer, assignor to General Mills, Inc., Minneapolis, Minn. Bag shaker and feeder. 1,781,714; Nov. 18.

Anderson, Lon D., Cross Cut, Tex. Wrench. 1,781,940; Nov. 18.

Anderson, Louis A., assignor to R. & G. Company, Attleboro, Mass. Vanity case. 1,782,377; Nov. 18.

Andrade, Cipriano, jr., New York, N. Y. Differential. 1,781,996; Nov. 18.

André, Henri G., Paris, France. Unilateral conductor for rectifying alternating current. 1,782,129; Nov. 18.

Anglemeyer, Herman B., Calexico, assignor of one-tenth to J. A. Allard, jr., one-fourth to A. M. Lichty, one-fourth to B. C. Shepherd, one-eighth to M. W. Zander, and one-sixteenth to I. H. Van Cleave, Pomona, Calif. Automotive air-cleansing device. 1,781,742; Nov. 18.

Aniol, John F., Chicago, Ill. Vehicle lamp. 1,781,865; Nov. 18.

Anker-Holth, Severin C., Los Angeles, Calif. Flying machine. 1,781,910; Nov. 18.

Antoni, Ernst J., Denver, Colo. Plant thinner. 1,781,743; Nov. 18.

Arensberg, Francis L., Pittsburgh, and A. J. Jackman, Forest Hills, assignors to Vesuvius Crucible Company, Swissvale, Pa. Refractory structure. 1,782,023; Nov. 18.

Armitage, Joseph B. (See Kearney, E. J., and Armitage.)

Armstrong, Edward P., Portland, Oreg. Saw grinder. 1,781,941; Nov. 18.

Arnold, Charles L., Shelbyville, Ky. Embalmer's plug. 1,782,332; Nov. 18.

Aronson, Louis V., Newark, N. J., assignor to Art Metal Works, Inc. Vanity case. 1,782,024; Nov. 18.

Art Metal Works, Inc. (See Aronson, Louis V., assignor.)

Asahi Glass Company Limited, The. (See Kamita, Kiyoshi, assignor.)

Asbestos Wood & Shingle Co. (See MacIldowie, John C., assignor.)

Aseltine, Fred E., assignor, by mesne assignments, to Delco Products Corporation, Dayton, Ohio. Charge-forming device for internal-combustion engines. 1,782,333; Nov. 18.

Ashworth, William H., Columbia, S. C. Automatic planer-knife grinder. 1,781,674; Nov. 18.

Atticks, Harry J., and J. G. Saltzman, New York, N. Y. Actuating means for electric-light dimmers. 1,782,390; Nov. 18.

Aurand, Omer R., Shamokin Dam, Pa. Combined light and signal. 1,782,334; Nov. 18.

Austin, Charles J., assignor to R. E. Roberts, Utica, N. Y. Shade holder. 1,782,159; Nov. 18.

Autocar Company, The. (See Bachman, B. B., and Clarke, assignors.)

Automobile "Lock-Alarm" Corporation. (See Bolduc, Joseph A., assignor.)

Auto Ramps Corporation. (See Smith, Horace L., jr., assignor.)

Autosales Corporation. (See Grant, Garnet P., assignor.)

Bachman, Benjamin B., Philadelphia, Pa., and L. S. Clarke, Palm Beach, Fla., assignors to The Autocar Company, Ardmore, Pa. Internal-combustion engine. 1,782,187; Nov. 18.

Bacon, Raymond F., Bronxville, N. Y. Recovery of sulphur from pyrites. 1,782,225; Nov. 18.

Bacon, Raymond F., Bronxville, N. Y. Recovery of sulphur from iron pyrites. 1,782,226; Nov. 18.

Bader, Fred W., Hillsdale, N. J., assignor to J. Kridel, Sons & Co. Textile fabric. Des. 82,537; Nov. 18.

Babney, Robert H., Massilon, assignor of one-half to H. F. Frease, Canton, Ohio. Speed indicator and variable synchronizer. 1,781,866; Nov. 18.

Bahr, Emil, Dean, Mont. Alarm device. 1,782,378; Nov. 18.

Bailey, Claude B., Wyandotte, assignor to McCord Radiator & Mfg. Co., Detroit, Mich. Gasket. 1,782,087; Nov. 18.

Bailey, Richard O. (See Gray, D., Bailey, and Murray.)

Baird, John L., assignor to Television Limited, London, England. Transmitting signals. 1,781,799; Nov. 18.

Baird, John L., assignor to Television Limited, London, England. Television apparatus and the like. 1,781,800; Nov. 18.

Bal, Victor, Hyannis, Nebr. Hay loader. 1,782,227; Nov. 18.

Baldwin, Luther C., assignor, by mesne assignments, to U. S. Bobbin & Shuttle Company, 1929, Providence, R. I. Spool or bobbin. 1,781,801; Nov. 18.

Ball, Charles F., assignor to Chain Belt Company, Milwaukee, Wis. Concrete mixer and agitator. 1,781,965; Nov. 18.

Ball, Howard, Long Beach, Calif. Adjustable scaffolding. 1,781,911; Nov. 18.

Ballauf, Fritz, F. Muth, and A. Schmelzer, Elberfeld, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Carbazole indophenol compounds and preparing the same. 1,781,966; Nov. 18.

Ballou, B. A. & Co. (See Stafford, Rogers T., assignor.)

Balton, James L., Baltimore, Md. Baking and molding device. 1,782,088; Nov. 18.

Baltzell, Edmund A., Portland, Oreg. Sharpening device. 1,781,967; Nov. 18.

Bandoly, Erich, assignor to Central Scientific Company, Chicago, Ill. Resistance box. 1,781,802; Nov. 18.

Barber, Franklin L., and E. W. Webb, assignors to Standard Car Truck Company, Chicago, Ill. Lateral-motion roller bearing for cars. 1,782,130; Nov. 18.

Barber Gas Burner Company, The. (See Kerr, Harry E., assignor.)

Barbour Flax Spinning Co. (See Tracy, Homer D., assignor.)

Bargeboer, Adolf, The Hague, Netherlands. Rotary pump. 1,782,282; Nov. 18.

Barium Reduction Corporation. (See Pierce, James B., jr., assignor.)

Barnes, Eugene L., Buffalo, N. Y. Compressor pump. 1,782,188; Nov. 18.

Barnes, Eugene L., Buffalo, N. Y. Refrigerating apparatus. 1,782,189; Nov. 18.

Barnes, George H., Joliet, Ill. Illuminated sign. 1,781,677; Nov. 18.

Barnes Sash Holder, Inc. (See Barnes, Stanley, assignor.)

Barnes, Stanley, assignor to Barnes Sash Holder, Inc., Indianapolis, Ind. Sash holder. 1,781,912; Nov. 18.

Barrows, Donald S., Rochester, N. Y., assignor, by mesne assignments, to The Symington Company. Journal box. 1,782,055; Nov. 18.

Barstow, Edwin O., assignor to The Dow Chemical Company, Midland, Mich. Fixing or recovering chlorine. 1,781,830; Nov. 18.

Bartels, Edward E., assignor to Standard Oil Company, Whiting, Ind. Converting high-boiling hydrocarbon oils. 1,782,160; Nov. 18.

Bartholomew, Orlo A., Kansas City, Mo. Process and apparatus for barking logs. 1,781,942; Nov. 18.

Bartholomew, Orlo A., St. Louis, Mo. Crane-operated device. 1,781,943; Nov. 18.

Bartlett, Alexandra T., assignor to H. M. Snyder, New York, N. Y. Chair. Des. 82,538; Nov. 18.

Bartley, Charles B., and V. H. Dake, Pittsburgh, Pa. Current-rectifying apparatus. 1,782,228; Nov. 18.

Bartoletti, Dante, Pittsburgh, Pa., assignor of one-half to M. Fredieˈ Monessen, Pa. Antiskid chain for automobiles. 1,782,283; Nov. 18.

Basel, Arthur H., Ithaca, Nebr. Corn popper. 1,781,678; Nov. 18.

Bassick Company, The. (See Harold, Walter F., assignor.)

Bassick Company, The. (See Moore, Raymond G., assignor.)

Bassick Company, The. (See Moore, R. G., and Claud-Mantle, assignors.)

Bastiaens, Marion, Elberon, N. J., assignor to Belle-Rea Corporation, Wilmington, Del. Measuring dispensing device for containers. 1,781,968; Nov. 18.

Batter, Frank, Linnton, Oreg. Heat-exchange apparatus. 1,781,913; Nov. 18.

Battle, Richard. (See Bergquist, C. H., and Battle.)

Baum, Isaac A., Chicago, Ill. Molding for metal frames. 1,781,773; Nov. 18.

Baumer, Harry W., Chicago, Ill. Protective device for electric circuits. 1,782,089; Nov. 18.

Bayles, John H. G., Nottingham, England. Circular-knitting machine. 1,782,161; Nov. 18.

Beach, George F., Philadelphia, Pa., assignor, by mesne assignments, to Ryan, Scully & Company, Philadelphia, Pa. Furnace conveyer. 1,782,335; Nov. 18.

Beane, Walter H. (See Dodge, H. C., and Beane.)

Beau Ideal Food Co. (See Grande, Albert, assignor.)

Beck, Robert W., Lewiston, Idaho. Bicuspid and molar bridge teeth. 1,782,251; Nov. 18.

Becker, Aloysius W., assignor to Reconoheet Company, Chicago, Ill. Space heater. 1,782,229; Nov. 18.

Becker, Harry S., River Forest, assignor to American Flyer Mfg. Co., Chicago, Ill. Automatic safety cut-out for toy railways and the like. 1,781,969; Nov. 18.

Belin, Edouard, Paris, France. Device for recording documents transmitted by radio. 1,781,944; Nov. 18.

Bell, Frank B., assignor to Edgewater Steel Company, Pittsburgh, Pa. Car wheel. 1,781,867; Nov. 18.

Bell & Gossett Company. (See Daley, Walter A., assignor.)

Bell, John E., Brooklyn, and E. W. Isom, Locust Valley, N. Y., assignors to Sinclair Refining Company, Chicago, Ill. Cracking hydrocarbons. 1,782,056; Nov. 18.

Bell, Lawrence D., Los Angeles, and J. C. Rombach, Glendale, Calif.; said Rombach assignor to said Bell. Cigar and cigarette lighter. 1,782,025; Nov. 18.

Bell-Rea Corporation. (See Bastiaens, Marion, assignor.)

Bemis Bro. Bag Company. (See Litchfield, Isaac W., assignor.)

Benjafield, Walter O., Regina, Saskatchewan, Canada. Switch. 1,781,970; Nov. 18.

Berezowski, John, assignor of one-half to P. Berezowski, Philadelphia, Pa. Clamp. 1,781,997; Nov. 18.

Berezowski, Peter. (See Berezowski, John, assignor.)

Bergquist, Charles H., and R. Battle, Okmulgee, Okla. Fluid meter. 1,781,744; Nov. 18.

Bertsch, Johann A. (See Jaeger, A. O., and Bertsch.)

Betancourt, Miguel, Bronx, N. Y. Bit gauge and positioning or leveling attachment. 1,782,284; Nov. 18.

Beyer, David S., Boston, Mass. Combination cigarette case, lighter, and ash tray. 1,782,026; Nov. 18.

Beyer, Heinrich, Flensburg, Germany. Liquid pump. 1,782,252; Nov. 18.

Bezner, Hugo, Crossingersheim, Germany. Shirt collar. 1,781,336; Nov. 18.

Bielenberg, Claude N., Deer Lodge, Mont. Concentrating machine. 1,781,971; Nov. 18.

Bing, Julius, assignor to the firm Magnet-Werke G. m. b. H., Eisenach Spezialfabrik für Elektromagnet-Apparate, Eisenach, Germany. Magnetic separator. 1,781,998; Nov. 18.

Bischof, Ulrich, Aarau, Switzerland. Machine for knotting warps. 1,782,162; Nov. 18.

Bittinger, Charles, Brookline, Mass. Rear-view mirror. 1,781,999; Nov. 18.

Bizzarri, Anthony, New York, N. Y. Oil pump. 1,782,803; Nov. 18.

Blakely, Sidney R., Jamaica Plain, Mass. Insole and making same. 1,781,715; Nov. 18.

Blecha, Albert, Benkelman, Nebr. Cultivator hitch. 1,781,972; Nov. 18.

Block, Mayer E., Peoria, Ill. Agitator for washing machines. 1,781,774; Nov. 18.

Blue Valley Creamery Company. (See McCain, Wes W., assignor.)

Bohl, Hugo, Westfield, N. J., assignor to Radiant Lighting Fixture Co. Inc., New York, N. Y. Lighting fixture or article of similar nature. Des. 82,539; Nov. 18.

Bohn Aluminum & Brass Corporation. (See Miller, Rudolph, assignor.)

Bolduc, Joseph A., Montreal, Quebec, Canada, assignor to Automobile "Lock-Alarm" Corporation, New York, N. Y. Alarm apparatus. 1,782,190; Nov. 18.

Bolling, John E., East Orange, N. J. Telephone-connecter take-up. 1,781,191; Nov. 18.

Bollinger, John C., Olympia, Wash. Sleeve holder. 1,782,057; Nov. 18.

Bollmann, Hermann, Hamburg, Germany. Apparatus for distilling fatty acids. 1,781,745; Nov. 18.

Bolton, Edith M., Gerrard's Cross, England. Spoon. 1,781,973; Nov. 18.

Bond, William A. (See Robbins, Frank D., assignor.)

Bonsall, Charles D., assignor to P. H. Murphy Company, New Kensington, Pa. Curline reenforcement and load-lifting arrangement. 1,781,775; Nov. 18.

Booth, Benjamin W., Ketchikan, Alaska. Animal trap. 1,782,253; Nov. 18.

Booth, William N., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Disk wheel. Des. 82,540; Nov. 18.

Booth, William N., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Wood wheel. Des. 82,541; Nov. 18.

Borden Company, The. (See Green, Lee B., assignor.)

Borgquist, Alfred H., Copenhagen, Denmark. Gramophone, megaphone, or the like. 1,781,974; Nov. 18.

Borton, George W., New Lisbon, N. J., assignor to Pennsylvania Crusher Company, New York, N. Y. Hammer crusher. 1,781,891; Nov. 18.

Boulade, Antonin, assignor to Societe du Carburateur Zenith, Lyon, France. Carburetor. 1,782,027; Nov. 18.

Bourdon, Pierre M., Paris, France, assignor to Michelin & Cie., Clermont-Ferrand, France. Wheel for railroad vehicles. 1,782,285; Nov. 18.

Bowes, Laurence C. (See Wanamaker, E., and Bowes.)

Boyce-Thompson Institute for Plant Research, Inc. (See Hartzell, Albert, assignor.)

Bradbury, Tennyson F. (See Hall, H. C., and Bradbury.)

Bradner, Donald B., and C. H. Milligan, assignors to The Champion Coated Paper Co., Hamilton, Ohio. Paper-coating composition. 1,781,716; Nov. 18.

Bradt, Merritt B., Brooklyn, N. Y. Games and amusement device. 1,781,717; Nov. 18.

Bragg, Caleb S., Palm Beach, Fla., and V. W. Kliesrath, Port Washington, assignors to Bragg-Kliesrath Corporation, Long Island City, N. Y. Hydraulically-actuated brake mechanism. 1,781,868; Nov. 18.

Bragg, Caleb S., Palm Beach, Fla., and V. W. Kliesrath, Port Washington, assignors to Bragg-Kliesrath Corporation, Long Island City, N. Y. Hydraulically-actuated brake mechanism. 1,781,869; Nov. 18.

Bragg-Kliesrath Corporation. (See Bragg, C. S., and Kliesrath, assignors.)

Brandes Laboratories, Inc. (See Michell, Philip A., assignor.)

Braun, Philip N. (See Schremp, E. J., and Braun.)

Bray, Little B., Bonaire, Ga. Hame hook. 1,781,975; Nov. 18.

Breidenbach, Max, Mainz, Germany. Game. 1,782,254; Nov. 18.

Brenchley, Richard, Reims, France, assignor, by mesne assignments, to Dual Motors Ltd., London, England. Phonograph. 1,781,679; Nov. 18.

Broberg, Elmer, assignor to Elco Tool and Screw Corporation, Rockford, Ill. Shade-roller bracket. 1,782,131; Nov. 18.

Broberg, Elmer, assignor to Elco Tool & Screw Corporation, Rockford, Ill. Shade-roller bracket. 1,782,132; Nov. 18.

Bromley, John, & Sons, Incorporated. (See Dicken, George M., assignor.)

Brown Company. (See Richter, George A., assignor.)

Brown, Sidney G., North Acton, England. Gyroscopic indicating instrument. 1,781,746; Nov. 18.

Brown, Walter G., Balboa, Canal Zone, Panama. Rack. 1,781,976; Nov. 18.

Brownyer, Nelson R., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Car truck. 1,782,192; Nov. 18.

Bryant Electric Company, The. (See Goodridge, Gilbert W., assignor.)

Bryant Electric Company, The. (See Webster, Benjamin C., assignor.)

Budd, Edward G., Manufacturing Company. (See Ledwinka, Joseph, assignor.)

Buffalo Foundry & Machine Company. (See How, Harlan W., assignor.)

Bulkowski, Joseph, Chicago, Ill. Mechanical toy. 1,781,804; Nov. 18.

Bunte Brothers. (See Oblander, Herbert, assignor.)

Burch, Eli F., Laurel Springs, N. J., assignor to Crew Levick Company, Philadelphia, Pa. Process and apparatus for dewaxing oils. 1,782,028; Nov. 18.

Burgess Battery Company. (See Henderson, Joseph M., assignor.)

Burnand, Ernest, Paris, France. Plate spring. 1,782,286; Nov. 18.

Burrell, Benjamin S., East Chicago, Ind. Lubricating connecters. 1,782,337; Nov. 18.

Burroughs Adding Machine Company. (See Horton, Allen A., assignor.)

Burson Knitting Company. (See Rolston, Walter F., assignor.)

Byron Jackson Co. (See Grant, John, assignor.)

C-O-Two Fire Equipment Company. (See Allen, S. E., and Wiswell, assignors.)

Cadman, Addi B., Beloit, Wis., assignor to Warner Mfg. Co., South Beloit, Ill. Trailer vehicle. 1,782,115; Nov. 18.

Cadman, Addi B., Beloit, Wis., assignor to Warner Mfg. Co., South Beloit, Ill. Trailer vehicle. 1,782,116; Nov. 18.

Cady, Walter G., Middletown, Conn., assignor to Radio Corporation of America. Electromechanical system. 1,781,680; Nov. 18.

Cady, Walter G., Middletown, Conn., assignor to Radio Corporation of America. Mounting piezo-electric resonators for the excitation of various overtones. 1,782,117; Nov. 18.

Cahall, George W., Philadelphia, Pa. Artist's easel. 1,782,118; Nov. 18.

Calco Chemical Company, The. (See Sumner, Richard E., assignor.)

Callen, Peter E., Toronto, Ontario, Canada. Head number for horses. 1,782,193; Nov. 18.

Calpin, Raymond, Everett, assignor to A. S. Campbell Company, East Boston, Mass. Automobile body and constructing a body. 1,782,230; Nov. 18.

Calvert, George W., Rushville, Mo. Hydraulic scale. 1,782,255; Nov. 18.

Cambridge Instrument Company. (See Stallan, William J., assignor.)

Camp, Percy B., Maywood, Ill., assignor to Universal Draft Gear Attachment Co. Brake mechanism for railway cars. 1,781,805; Nov. 18.

Campbell, A. S., Company. (See Calpin, Raymond, assignor.)

Campbell, Charles A., Watertown, N. Y., assignor to The New York Air Brake Company. Feed valve for air brakes. 1,781,747; Nov. 18.

Campbell, Harry E., assignor to Campbell Metal Window Corporation, Baltimore, Md. Sealing mechanism for metal windows. 1,782,338; Nov. 18.

Campbell, Herbert R., Paterson, N. J. Bridge warning indicator. 1,781,675; Nov. 18.

Campbell Metal Window Corporation. (See Campbell, Harry E., assignor.)

Campbell, Wallace G., Lockport, N. Y. Radiator tank. 1,782,058; Nov. 18.

Campobasso, Anthony, Chicago, Ill. Shade and screen for doors, windows, and the like. 1,782,339; Nov. 18.

Capps, Frank L., Bridgeport, Conn. Radio frequency transformer. 1,781,776; Nov. 18.

Carey, Philip, Manufacturing Company, The. (See Greider, Harold W., assignor.)

Carlo, Paul. (See Schleicher, M., and Carlo.)

Carr, Fred S., deceased, Newton, Mass., by United-Carr Fastener Corporation, Cambridge, Mass., assignee. Shiftable nut fastening. Re17,870; Nov. 18.

Carrier Engineering Corporation. (See LeGrand, Joseph M., assignor.)

Carter, Winthrop L., assignor to Nashua Sure-Hold Company, Nashua, N. H. Holding band. 1,782,194; Nov. 18.

Case Research Laboratory, Inc. (See Case, Theodore W., assignor.)

Case, Theodore W., assignor to Case Research Laboratory, Inc., Auburn, N. Y. Talking-picture machine. 1,781,945; Nov. 18.

Casper, Frank L., Howes Cave, N. Y. Table-leaf support. 1,782,059; Nov. 18.

Cater, William B. (See Shanks, W., and Cater.)

Central Scientific Company. (See Bandoly, Erich, assignor.)

Ceres, Albert F., jr. (See Nelson, G. W., and Ceres.)

Chain Belt Company. (See Ball, Charles F., assignor.)

Champion Coated Paper Co., The. (See Bradner, D. B., and Milligan, assignors.)

Chance, Thomas M., Merion, Pa. Separation of materials of different specific gravities. Re17,873; Nov. 18.

Chapman Electric Neutralizer Company. (See Chapman, William H., assignor.)

Chapman, William H., assignor to Chapman Electric Neutralizer Company, Portland, Me. Discharge bar for neutralizing static electricity. 1,782,340; Nov. 18.

Chapper, Frank E., and W. R., McGee, Detroit, Mich. Boot hook. 1,781,748; Nov. 18.

Charlesworth, Stanton I., and A. W. Harris, Cleveland, Ohio. Coating compound. 1,782,341; Nov. 18.

Checker Cab Manufacturing Corporation. (See Ruppel, Frederick C., assignor.)

Chicago Paving Laboratory, Inc. (See Abson, Gene, assignor.)

Chicago Telephone Supply Co. (See Schellenger, Newton C., assignor.)

Chicago Telephone Supply Company. (See Stirling, James A., assignor.)

Childs, John S., assignor of one-third to R. A. Nease, and one-third to C. B. Harrington, McMechen, W. Va. Wheel-flange oiler. 1,782,133; Nov. 18.

Chipman, Andrew L. (See Chipman, Harry E., assignor.)

Chipman, Harry E., Springfield, Mass., assignor to A. L. Chipman, New York, N. Y. Control switch. 1,781,892; Nov. 18.

Chipman, Harry E., Springfield, Mass., assignor to A. L. Chipman, New York, N. Y. Control switch. 1,781,893; Nov. 18.

Christel, Karl, Tauchn, Germany. Machine for cleaning the matrices for type setting and casting machines. 1,781,946; Nov. 18.

Christopherson, Charles J., Oak Park, Ill. Window holder. 1,781,870; Nov. 18.

Clark, Harold W., assignor to The Alliance Manufacturing Company, Alliance, Ohio. Garden shears. 1,782,029; Nov. 18.

Clark Loose Leaf Manufacturing Company. (See Kemp, John B., assignor.)

Clarke, Louis S. (See Bachman, B. B., and Clarke.)

Claud-Mantle, Arthur. (See Moore, R. G., and Claud-Mantle.)

Claude, Georges, assignor to Société l'Air Liquide, Société Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude, Paris, France. Gas separation process. 1,782,287; Nov. 18.

Clement, Donald B., New York, N. Y., assignor to McKesson & Robbins, Incorporated, Bridgeport, Conn. Wrapping paper. Des. 82,542; Nov. 18.

Cleveland Pneumatic Tool Company, The. (See Greve, Louis W., assignor.)

Cluff, Rohan, Nogales, Ariz. Projecting apparatus. 1,782,288; Nov. 18.

Collins, John N., Rosedale, N. Y. Collar. 1,782,000; Nov. 18.

Collins, Odie O., Riverside, Calif. Gripping device. 1,782,030; Nov. 18.

Columbia Narrow Fabric Company. (See Kenyon, Charles F., assignor.)

Columbus Dental Manufacturing Co., The. (See Fischler, Bernard, assignor.)

Columbus Dental Manufacturing Company, The. (See Vongunten, Alfred E., assignor.)

Comer, Victor T., San Francisco, Calif. Electric-cell-testing machine. 1,781,914; Nov. 18.

Comstock, Dorothy D. (See Stoddard, Beatrice M., assignor.)

Conner, Edward A., Stratford, Conn., assignor to American Cable Company, Inc. Machine for making wire strands, ropes, and cables. 1,781,894; Nov. 18.

Conner, Frank T., South Chicago, Ill. Antiglare device. 1,781,777; Nov. 18.

Conrad, Isiah, assignor to F. O. Schoedinger, Columbus, Ohio. Sheet-metal furniture. 1,781,718; Nov. 18.

Consolidated Ashcroft Hancock Company. (See Heise, Otto W. assignor.)

Consolidated Iron-Steel Manufacturing Company. (See Luton, John K., assignor.)

Cook, Lawrence L., Indianapolis, Ind. Amusement device. 1,782,163; Nov. 18.

Cook Pottery Company, The. (See Lovett, Charles H., assignor.)

Cooke, George W., Forest Hills, N. Y., assignor, by mesne assignments, to Allied Die-Casting Corporation, Long Island City, N. Y. Grease nozzle. 1,781,681; Nov. 18.

Cooper, William R., Huntingdon, Quebec, Canada, and H. Quick, New York, N. Y. Snap hook. 1,782,379; Nov. 18.

Copeman Laboratories Company. (See Copeman, Lloyd G., assignor.)

Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Refrigerating unit of fired ceramic material. 1,781,778; Nov. 18.

Coplen, Donald G., Seattle, Wash. Safety equipment for aircraft. 1,782,184; Nov. 18.

Copley, Duncan M., and J. P. Snyder, assignors to The Norwich Pharmacal Company, Norwich, N. Y. Mercury compound of meta cresol. 1,782,090; Nov. 18.

Cotton, Walter H., Chicago, Ill. Lubricating device. 1,782,135; Nov. 18.

Cox, Frederick A., Chicago, Ill. Door latch. 1,782,289; Nov. 18.

Cragg, Herbert, Ottawa, Ontario, Canada. Oscillating headlight for automobiles. 1,782,290; Nov. 18.

Crawford, George M., Ingomar, and J. M. London, Butler, Pa. Coal-loading machine. 1,781,895; Nov. 18.
Crenshaw, Erswell V., assignor to Langenberg Hat Company, St. Louis, Mo. Wearing apparel. 1,781,832; Nov. 18.
Crew Levick Company. (See Burch, Eli F., assignor.)
Crichton, James V., assignor of one-half to K. Salberg, Philadelphia, Pa. Variable speed mechanism. 1,782,001; Nov. 18.
Crosby, Stephen A., Philadelphia, Pa. Eraser attachment for typewriters. 1,782,060; Nov. 18.
Cross, James W., Finsbury Pavement, London, and Eric E. Johnson, Tottenham, London, England. Seat. 1,782,231; Nov. 18.
Cross, William A., East Milton, Mass. Sectional liquid heating apparatus. 1,781,915; Nov. 18.
Crotty, Joseph J., New York, assignor to The Universal Pipe and Radiator Company, New York, N. Y. Soil pipe. 1,781,682; Nov. 18.
Crowe Name Plate & Manufacturing Co. (See Scheibel, Charles, assignor.)
Crowell, Henry W., Glen Ridge, N. J. Gauge. 1,782,002; Nov. 18.
Csont, Aron, Coraopolis, Pa. Waterproof shoe. 1,782,136; Nov. 18.
Cummer, Freeman B., Carmen, Manitoba, Canada. Siding clamp. 1,781,833; Nov. 18.
Cummings, Leon H., Ware, Mass. Collapsible table for automobiles. 1,781,977; Nov. 18.
Cutler-Hammer Inc. (See Rodman, Thomas H., assignor.)
Cutler-Hammer, Inc. (See Stevens, W. C., and Meuer, assignors.)
Da Costa, James S., Merchantville, N. J., assignor of one-half to J. B. Webb, Detroit, Mich. Elevator mechanism. 1,781,806; Nov. 18.
Dains, Irven F., assignor to Western Stoneware Company, Monmouth, Ill. Pottery kick out element. 1,781,947; Nov. 18.
Dake, Virgil H. (See Bartley, C. B., and Dake.)
Daley, Walter A., assignor to Bell & Gossett Company, Chicago, Ill. Unrestricted-return water heater. 1,782,380; Nov. 18.
Dalton, Hubert, Stamford, Conn. Belt-tightening mechanism for motor-driven supply units. 1,782,195; Nov. 18.
Dalton, Hubert, Stamford, Conn. Threadless nut or collar. 1,782,196; Nov. 18.
Daly, Catherine T., et al. (See Smith, Augustus, assignor.)
Daly, Mary B., et al. (See Smith, Augustus, assignor.)
Dana, Frank H. (See Sanderson, A. N., Dana, and Vogel.)
Daneman, A. S. (See D'Autremont, Louis F., assignor.)
Darling, William H., London, Ontario, Canada. Waste-pipe fitting. 1,781,719; Nov. 18.
D'Autremont, Louis F., assignor of one-half to A. S. Daneman, Dayton, Ohio. Stencil sheet. 1,781,834; Nov. 18.
Davies, W. Sanders, et al., trustees. (See Davis, Kenneth, assignor.)
Davin, George H., Cassel, Germany, assignor to Schmidt'sche Heissdampf G. m. b. H., Cassel-Wilhelmshohe, Germany. Apparatus for maintaining a predetermined water level in steam boilers. 1,781,749; Nov. 18.
Davis, Ernest, assignor to The Prosperity Company Inc., Syracuse, N. Y. Pressing element for pressing machines. 1,782,137; Nov. 18.
Davis, Ernest W., Oak Park, assignor to Alemite Corporation, Chicago, Ill. Lubricating system. 1,781,948; Nov. 18.
Davis, Frank M., Milwaukee, Wis., and A. C. Hoeh, Pontiac, Mich., assignors to Davis & Thompson Company, Milwaukee, Wis. Continuously-operating multiple lathe. 1,782,138; Nov. 18.
Davis, Kenneth, Ebensburg, Pa., assignor to R. Peale, W. S. Davies, and W. S. Wallace, trustees. Machine for handling loose materials. 1,781,978; Nov. 18.
Davis, Kenneth, Ebensburg, Pa., assignor, by mesne assignments, to Peale-Davis Company, Wilmington, Del. Process and mechanism for separating intermixed materials. 1,782,391; Nov. 18.
Davis, Kenneth, Ebensburg, Pa., assignor, by mesne assignments, to Peale-Davis Company, Wilmington, Del. Process and mechanism for separating intermixed materials. 1,782,392; Nov. 18.
Davis & Thompson Company. (See Davis, F. M., and Hoeh, assignors.)
Dean, Philip, Madison, Wis. Knockdown shelving. 1,782,119; Nov. 18.
Dedrick, David G., Groton, Conn. Sounding device. 1,782,139; Nov. 18.
Degener, Gustave O., assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,781,720; Nov. 18.
De Graaf, Martin, Grand Rapids, Mich. Humidifier. 1,782,197; Nov. 18.
De Haven, Avery S. (See Fremon, J. A., and De Haven.)
Delco Products Corporation. (See Aseltine, Fred E., assignor.)
De Leon, Frances M., New York, N. Y. Unit twin bed. 1,781,807; Nov. 18.
Demag Aktiengesellschaft, et al. (See Lang, Anton, assignor.)
Denkert, James R., Johnstown, N. Y. Inflatable playing ball and bladder therefor. 1,782,198; Nov. 18.
De Rozieres, Eugene, Metuchen, N. J. Grinder for pigments and the like. 1,781,808; Nov. 18.
Detroit Michigan Stove Company. (See Maul, Henry C., assignor.)
Detwiler, William F., Tarentum, Pa., assignor to Allegheny Steel Company, Brackenridge, Pa. Rolling mill. 1,781,809; Nov. 18.
Diago, Frederico G., Habana, Cuba. Aeroplane. 1,782,256; Nov. 18.
Diamond, Harry I., Atlanta, Ga. Bias insulating tape. 1,781,896; Nov. 18.
Dicken, George M., Hulmeville, Pa., assignor to John Bromley & Sons, Incorporated. Lace. Des. 82,543; Nov. 18.
Dickinson, Joseph H., Larchmont, N. Y., assignor to The Aeolian Company. Expression device for automatic pianos. 1,782,061; Nov. 18.
Dickley, George A., and E. B. Groff, Long Beach, Calif. Adjustable platen-press chase. 1,781,979; Nov. 18.
Dickman, John A., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone substation equipment. 1,781,916; Nov. 18.
Di Cristina, Anthony F., Los Angeles, Calif. Ring. Des. 82,544; Nov. 18.
Dobbins, Donald C., Champaign, Ill. Transmission mechanism. 1,782,342; Nov. 18.
Dobbins, Donald C., Champaign, Ill. Transmission mechanism. 1,782,343; Nov. 18.
Dodge, Adiel Y., South Bend, Ind. Vacuum-inducing construction. 1,782,199; Nov. 18.
Dodge, Harold C., Portland, and W. H. Beane, Klamath Falls, Oreg. Conveyer. 1,781,750; Nov. 18.
Doherty, Henry L., New York, N. Y. Method and apparatus for distilling solid carbonaceous material. 1,781,871; Nov. 18.
Dominion Cutout Company Limited. (See Tate, James R., assignor.)
Douglas, George R., Detroit, Mich. Rail. 1,782,031; Nov. 18.
Douglas, John F. H., and E. W. Kane, Milwaukee, Wis. Synchronous dynamo-electric machine. 1,782,200; Nov. 18.
Dow Chemical Company, The. (See Barstow, Edwin O., assignor.)
Dow Chemical Company, The. (See Dow, Herbert H., assignor.)
Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Method of and apparatus for gas analysis. 1,782,032; Nov. 18.
Drake, John L., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Heating means for sheet-glass apparatus. 1,781,917; Nov. 18.
Driggs, Louis L., jr., Tippecanoe City, Ohio, and H. B. Faber, New York, N. Y. Projectile for signaling or illuminating purposes. 1,782,291; Nov. 18.
Driggs, Louis L., jr., Tippecanoe City, Ohio, and H. B. Faber, New York, N. Y. Flare. 1,782,292; Nov. 18.
Dual Motors Ltd. (See Brenchley, Richard, assignor.)
Dugan, Earl T., Providence, R. I., assignor to Abe Manheimer & Company, Inc., St. Louis, Mo. Shoe ornament or similar article. Des. 82,546; Nov. 18.
Dumler, Charles, Canton, Okla. Revolving display stand. 1,782,257; Nov. 18.
Dunham Company, The. (See Dunham, Ray E., assignor.)
Dunham, Ray E., assignor to The Dunham Company, Berea, Ohio. Roller pulverizer. 1,782,201; Nov. 18.
Dunham, Samuel E., Augusta, Ga. Packing for piston rods and valve stems. 1,782,258; Nov. 18.
Dunkelsberg, Louis, New York, N. Y. Golf tee. 1,781,684; Nov. 18.
Dunsheath, Percy, assignor to W. T. Henley's Telegraph Works Company, Limited, London, England. Application of insulating material in the form of strips to electric conductors. 1,782,381; Nov. 18.
Du Pont, E. I., de Nemours & Company. (See Kern, J. G., and Sala, assignors.)
Du Pont, E. I., de Nemours & Company. (See Pitman, Earle C., assignor.)
Dura Company The. (See Graff, George, assignor.)
Dyer, Frederick C., Toronto, Canada. Ore-concentrating table. 1,781,810; Nov. 18.
Dziacos, Nicolas. (See Franquet, J., and Dziacos.)
Eadie Brothers and Company Limited. (See Whiteley, Wilfred, assignor.)
Earl, Harley J., assignor to General Motors Corporation, Detroit, Mich. Running board. Des. 82,547; Nov. 18.
Earl, Schuyler H., assignor to Gleason Works, Rochester, N. Y. Chuck. 1,781,721; Nov. 18.
Eastwood, Harry F., Merrick, N. Y. Furnace attachment. 1,781,811; Nov. 18.
Econoheet Company. (See Becker, Aloysius W., assignor.)
Eddy, Harold F. (See Keenan, W. F., jr., and Eddy.)
Edgewater Steel Company. (See Bell, Frank B., assignor.)
Edwards, Charles R., Houston, Tex. Pipe-pulling machine. 1,781,918; Nov. 18.
Edwards Manufacturing Company, The. (See Richmond, Samuel, assignor.)
Eggers, Heinrich, Bremen-Weser, Germany, assignor of five per cent to A. Orgovan, five per cent to O. S. Leszay, New York, and five per cent to I. Matusoff, Brooklyn, N. Y. Manufacture of paper from plant fiber. 1,782,382; Nov. 18.
Eggert, John, Leipzig, Richard Schmidt, and Bruno Wendt, Dessau-in-Anhalt, Germany, assignors to Agfa Ansco Corporation, Binghamton, N. Y. Light-sensitive layer and making photographic images. 1,782,259; Nov. 18.

Ehret, Conrad, Oklahoma City, Okla. Thief-hole cover. 1,781,722; Nov. 18.
Elco Tool & Screw Corporation. (See Broberg, Elmer, assignor.)
Electric Signal Company, The. (See Klein, Joseph W., assignor.)
Elektronmetall G. m. b. H. (See Wagner, Karl F., assignor.)
Elgin Butter Tub Company. (See Walstrom, Axel M., assignor.)
Elliott, Albert G. (See Royce, F. H., Rowledge, and Elliott.)
Elliott, Frank M., Detroit, Mich. Snap-fastener stud. 1,782,293; Nov. 18.
Elrod, Henry E. (See Hodges, T. A., and Elrod.)
Emmes, Frank C., and H. J. Knopp, Brussels, Wis. Illuminated flower vase. 1,781,835; Nov. 18.
Endicott Johnson Corporation. (See Steed, Leonard L., assignor.)
Enell, Howard H., Cleveland Heights, Ohio. Irrigating apparatus. 1,781,751; Nov. 18.
Epstein, Barnett, New York, N. Y. Combination pocketbook. 1,782,003; Nov. 18.
Erickson, Ole P., Chicago, Ill. Universal joint for pipe couplings. 1,782,062; Nov. 18.
Everhard, Edgar P. (See Willcox, F. H., and Everhard.)
Eversman, Lewis W., Julesburg, Colo. Beet harvester. 1,781,919; Nov. 18.
Eynon, Thomas M., Philadelphia, Pa. Liquid-level indicator. 1,782,233; Nov. 18.
Faber, Henry B. (See Driggs, L. L., jr., and Faber.)
Fageol, Hollie B., Los Angeles, Calif. Snubber. 1,781,898; Nov. 18.
Farrington, Harry J., Auburndale, Mass. Box for jewelry and the like. 1,781,779; Nov. 18.
Faultless Caster Company. (See Noelting, William H., assignor.)
Fawick, Thomas L., Racine, Wis. Spring shackle. 1,782,091; Nov. 18.
Feinstein, Max. (See Miller, C., and Feinstein.)
Felsenthal, G., & Sons. (See Scully, Walter P., assignor.)
Ferguson Brothers Manufacturing Company. (See Hanley, William, assignor.)
Firex Extinguisher Company, The. (See Wilcox, Frank T., assignor.)
Fischler, Bernard, Brooklyn, N. Y., assignor, by mesne assignments, to The Columbus Dental Manufacturing Co., Columbus, Ohio. Pontic for bridgework. 1,781,899; Nov. 18.
Fisher, Anna M., Los Angeles, Calif. Message holder. 1,781,752; Nov. 18.
Fisher, Edward J., Jackson Heights, assignor to Lavender Line, Inc., New York, N. Y. Savings bank. 1,781,920; Nov. 18.
Fisher, Harry L., and H. A. Winkelmann, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Rubber derivative and making same. 1,782,140; Nov. 18.
Fixman, Benjamin, Bartlesville, Okla. Making motor fuel. 1,781,872; Nov. 18.
Flannery, Bernard M., Seattle, Wash. Automobile parking system. 1,781,753; Nov. 18.
Flatt, Fritz, assignor to the firm Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie., Zurich, Switzerland. Plant for the generation of high-pressure steam. 1,781,836; Nov. 18.
Florisson, Charles L., Becon-Les-Bruyeres, assignor to Societe de Condensation et d'Applications Mecaniques, Paris, France. Method and apparatus for torpedo-firing operations. 1,782,294; Nov. 18.
Forbes, John S., Philadelphia, Pa., assignor, by mesne assignments, to Yates & Grant, Inc., Detroit, Mich. Magnetic razor-conditioning device. 1,782,033; Nov. 18.
Ford, Ira D., Roseland, Ontario, Canada, assignor to Universal Button Fastening & Button Company, Detroit, Mich. Securing means. 1,782,164; Nov. 18.
Ford, Ira D., Roseland, Ontario, Canada, assignor to Universal Button Fastening & Button Company, Detroit, Mich. Securing means. 1,782,165; Nov. 18.
Ford, Ira D., Roseland, Ontario, Canada, assignor to Universal Button Fastening & Button Co., Detroit, Mich. Securing means. 1,782,166; Nov. 18.
Forstner Chain Corporation. (See Forstner, William, assignor.)
Forstner, William, assignor to Forstner Chain Corporation, Irvington, N. J. Mesh chain and making same. 1,782,004; Nov. 18.
Foster Wheeler Corporation. (See Keenan, Walter F., jr., assignor.)
Foster Wheeler Corporation. (See Keenan, W. F., jr., and Eddy, assignors.)
Fox, Harold E., Pittsburgh, Pa., assignor to Pittsburgh Metal Airplane Company. Shaping hollow bodies. 1,781,723; Nov. 18.
Frank, Pardee H., assignor to The Timken Roller Bearing Company, Canton, Ohio. Shaft inclosure. 1,781,685; Nov. 18.
Frankl, Paul T., New York, N. Y., assignor to Warren Telechron Company. Combined clock casing and dial therefor or similar article. Des. 82,548; Nov. 18.
Franklin Simon & Company. (See Long, Dorothy, assignor.)
Franquet, Jean, Chatillon Sous Bagneux, and N. Dziacos, Paris, France. Removable radiating device for the cooling of spark plugs. 1,782,260; Nov. 18.
Frater, Gordon G., assignor to G. B. Lewis Company, Watertown, Wis. Hive frame. 1,782,202; Nov. 18.
Frease, Hurxthal F. (See Bahney, Robert H., assignor.)
Fredici, Marino. (See Bartoletti, Dante, assignor.)
Freeberg, George. (See Simons, G. A., and Freeberg.)
Fremon, Jules A., and A. S. De Haven, Leeper, Mo., assignors, by mesne assignments, to Pen Desk Set Company. Fountain-pen desk stand. 1,782,109; Nov. 18.
Freydberg Bros., Inc., et al. (See Strauss, Nathan J., assignor.)
Freyn Engineering Company. (See Willcox, F. H., and Everhard, assignors.)
Friede, Samuel M., and F. J. McGuire, Sarasota, Fla. Match-stock-cutting apparatus. 1,781,900; Nov. 18.
Friedman, Albert J., Chicago, Ill. Ring. Des. 82,549; Nov. 18.
Friis-Hansen, Erik, Fort Saskatchewan, Alberta, Canada. Harvesting machine. 1,782,261; Nov. 13.
Fry, Adolf, Essen-Ruhr, Germany, assignor, by mesne assignments, to The Nitralloy Corporation. Electric resistance furnace adapted for hardening by nitrogenization. Re17,874; Nov. 18.
Funk, John G., Cleveland, Ohio. Combination kitchen utensil. 1,781,837; Nov. 18.
Funke, Frank J., La Crosse, Wis. Container. 1,782,120; Nov. 18.
Fusgen, Peter, and W. Kost, Dusseldorf, assignors to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Spring arrangement. 1,781,724; Nov. 18.
Gamache, Joseph, Los Angeles, Calif., assignor to Imperial Oscillating Valve Company, Las Vegas, Nev. Oscillating valve. 1,781,901; Nov. 18.
Gas Research Company, The. (See Smith, Harry F., assignor.)
Gates, Joseph W. (See Manning, P. A., and Gates.)
Gay, Frazer W., Newark, N. J., assignor to General Electric Company. Connecting electrical machines with transformer banks. 1,782,262; Nov. 18.
Gay, Frazer W., Newark, N. J., assignor to General Electric Company. Connecting electrical machines with transformer banks by phase changing and voltage changing. 1,782,263; Nov. 18.
Geigy, J. R., S. A. (See Laeuger, Paul, assignor.)
Gender, Paeschke & Frey Company. (See Kempter, Philip, assignor.)
General Aniline Works, Inc. (See Ballauf, F., Muth, and Schmelzer, assignors.)
General Aniline Works, Inc. (See Kahn, M., Schepss, and Zeh, assignors.)
General Aniline Works, Inc. (See Kahn, M., and Thauss, assignors.)
General Electric Company. (See Gay, Frazer W., assignor.)
General Fireproofing Company. (See Gourley, Glenn T., assignor.)
General Mills, Inc. (See Anderson, Helmer, assignor.)
General Motors Corporation. (See Earl, Harley J., assignor.)
General Spring Bumper Corporation. (See Jandus, Herbert S., assignor.)
Gent, Oscar L., Tulsa, Okla. Wall. 1,782,034; Nov. 18.
Getz, Benjamin E., Morton, Ill. Laundry apparatus. 1,781,921; Nov. 18.
Gianera, Peter A., Torrance, Calif. Foot throttle. 1,782,035; Nov. 18.
Gibson, Carter C., assignor to The Two-Way Electric Grinder Company, Hamburg, Iowa. Grinding apparatus. 1,782,063; Nov. 18.
Giesecke, William E., assignor to Charles T. Wilson Company, Inc., New York, N. Y. Machine and process for cracking nuts. 1,781,838; Nov. 18.
Giffen, Florin M., Union, N. J., assignor of Oxweld Acetylene Company. Blowpipe head. Des. 82,551; Nov. 18.
Gilchrist, Benjamin W. (See McCullough, J. F. K., and Gilchrist.)
Gill, Edwin R., jr., Yonkers, N. Y. Manifolding. 1,781,902; Nov. 18.
Gleason Works. (See Earl, Schuyler H., assignor.)
Glintenkamp, William P., Bellaire, assignor to May Manufacturing Co. Inc., New York, N. Y. Bridge member for an optical mounting. Des. 82,550; Nov. 18.
Goldberg, Benjamin D., New York, N. Y. Water heater. Des. 82,552; Nov. 18.
Goldschmidt, Victor M., Oslo, Norway. Manufacture of ceramic products. 1,782,295; Nov. 18.
Goldstein, Adolph O., assignor to Sno-ko Inc., Santa Cruz, Calif. Ice-shaving device. 1,782,296; Nov. 18.
Goodman, Abraham and J., Brooklyn, N. Y. Pinch waver. 1,781,812; Nov. 18.
Goodman, Jacob. (See Goodman, Abraham and J.)
Goodman Manufacturing Company. (See Vodoz, Frederick W., assignor.)
Goodrich, B. F., Company, The. (See Fisher, H. L., and Winkelmann, assignors.)
Goodrich, B. F., Company, The. (See Gray, Harold, assignor.)
Goodridge, Gilbert W., Fairfield, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn. Attachment plug and receptacle. 1,782,297; Nov. 18.
Goodwin, Selden J., San Francisco, Calif. Lock device. 1,781,813; Nov. 18.
Goodyear Redwood Co. (See Lawson, Davenport, assignor.)

Gourley, Glenn T., assignor to General Fireproofing Company, Youngstown, Ohio. Knockdown metal cabinet. 1,782,344; Nov. 18.
Grab, Gustav A., Portland, Oreg. Frame for traversing hoists. 1,781,754; Nov. 18.
Graff, George, assignor to The Duro Company, Toledo, Ohio. Rim for dome lights or the like. Des. 82,553; Nov. 18.
Graham, Walter J., Marietta, Ohio. Glass dish or similar article. Des. 82,554; Nov. 18.
Grain Machinery Company, The. (See Haines, George H., assignor.)
Grande, Albert, assignor to Beau Ideal Food Co., Boston, Mass. Ornamental food package and making the same. 1,782,232; Nov. 18.
Grant, Garnet P., assignor to Autosales Corporation, Long Island City, N. Y. Goods-vending display stand. Des. 82,555; Nov. 18.
Grant, John, Los Angeles, assignor, by mesne assignments, to Byron Jackson Co., West Berkeley, Calif. Well elevator. 1,781,922; Nov. 18.
Graves, Mildred V. (See Graves, Ralph I., assignor.)
Graves, Ralph I., Washington, D. C., assignor to M. V. Graves, Chevy Chase, Md. Vending machine. 1,781,839; Nov. 18.
Gray, Daniel, R. O. Bailey, Oneida, and W. S. Murray, Utica, N. Y., assignors to Oneida Community, Limited, Oneida, N. Y. Articles having tarnish resisting surface and making same. 1,782,092; Nov. 18.
Gray, Harold, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Heat-plastic composition. 1,782,036; Nov. 18.
Gray Rose, E., Sacramento, Calif. Valve for vacuum-cleaner dust bags. 1,782,064; Nov. 18.
Grebenstein, George W., Newtonville, Mass. Wheel puller. 1,782,037; Nov. 18.
Green, Joseph G., San Francisco, Calif. Display case. Des. 82,556; Nov. 18.
Green, Lee B., Lakewood, assignor to The Borden Company, Warren, Ohio. Centrifugal drier. 1,782,264; Nov. 18.
Greene, Clarence K., Cananea, Mex. Variable-pitch propeller. 1,782,167; Nov. 18.
Greider, Harold W., Plymouth Meeting, Pa., assignor to The Philip Carey Manufacturing Company. Heat-insulating material and process of manufacture. 1,782,383; Nov. 18.
Greider, Harold W., Plymouth Meeting, Pa., assignor to The Philip Carey Manufacturing Company. Porous material and the manufacturing process thereof. 1,782,384; Nov. 18.
Greve, Louis W., assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Shock absorber. 1,782,141; Nov. 18.
Grier, Ulysses, New York, N. Y. Aeroplane-cloth speaker. 1,781,949; Nov. 18.
Grieve, T., & Co. Limited. (See Grieve, Thomas S., assignor.)
Grieve, Thomas S., Leicester, England. Circular-knitting machine. 1,782,298; Nov. 18.
Grieve, Thomas S., assignor to T. Grieve & Co. Limited, Leicester, England. Yarn-feeding means for circular-knitting machines. 1,782,299; Nov. 18.
Griffin, William M., and C. L. Merriman, assignors to Wayne Company, Fort Wayne, Ind. Casing for a liquid-dispensing apparatus. Des. 82,557; Nov. 18.
Grison, Joseph, New York, N. Y. Massaging device. 1,782,005; Nov. 18.
Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Lathe-oiling mechanism. 1,781,755; Nov. 18.
Groff, Earl B. (See Dickley, G. A. and Groff.)
Groove Lock Co. Inc. (See Leberman, Harry, assignor.)
Grubbs, Elbert E. (See Hardy, Donovan H., assignor.)
Gunn Furniture Company. (See Gunn, William E., assignor.)
Gunn, William E., assignor to Gunn Furniture Company, Grand Rapids, Mich. Desk. Des. 82,558; Nov. 18.
Gwynn, Albert R., Los Angeles, Calif. Radio log. 1,782,065; Nov. 18.
Haak, Bodo, Neuroessen, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Conversion of salts into globular or similar shaped bodies. 1,782,038; Nov. 18.
Haase, Otto, Dresden-Altstadt, Germany. Steering mechanism for vehicles. 1,782,265; Nov. 18.
Haentjens, Otto, Hazleton, Pa. Centrifugal-pump-priming system. 1,782,345; Nov. 18.
Hagemann, Louis F. (See Pringle, W. A., and Hagemann.)
Haines, George H., Caledonia, assignor to The Grain Machinery Company, Marion, Ohio. Mixing apparatus. Re17,875; Nov. 18.
Hall Arch Company. (See Hall, Arthur F., assignor.)
Hall, Arthur F., Boston, Mass., assignor to Hall Arch Company, Philadelphia, Pa. Refractory structure. 1,781,780; Nov. 18.
Hall, Horace C., and T. F. Bradbury, assignors to Rolls Royce Limited, Derby, England. Aluminum alloy. 1,782,300; Nov. 18.
Hall, Robert F., Schenectady, N. Y. Truck for railway rolling stock. 1,782,093; Nov. 18.
Hallahan, Frederick E. (See Thomas, A., and Hallahan.)
Hammer, Samuel, Brooklyn, N. Y. Meter-entrance switch box. 1,781,686; Nov. 18.
Hammond, C. S., & Company. (See King, Peter J., assignor.)
Hamrol, Felix, assignor, by mesne assignments, to Motor City Sales Company, Detroit, Mich. Automatic loading device. 1,781,873; Nov. 18.
Händle, Karl, Muehlacker, Germany. String-molding press. 1,782,301; Nov. 18.
Handley, George F., Glendale, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,781,725; Nov. 18.
Hanley, William, East Orange, N. J., assignor to Ferguson Brothers Manufacturing Company, Hoboken, N. J. Screen. 1,782,203; Nov. 18.
Hannegan, Thomas P., St. Paul, Minn. Crank-case oil heater. 1,781,840; Nov. 18.
Harding, John W., Wheeling, W. Va. Clamp and making the same. 1,782,266; Nov. 18.
Hardy, Donovan H., assignor of one-half to E. E. Grubbs, Manila, P. I. Shoe-lace knotter. 1,782,066; Nov. 18.
Harper, Lurella, et al., administratrices. (See Hilgert, Mathew.)
Harrington, Claude B., et al. (See Chirds, John S., assignor.)
Harris, Arch W. (See Charlesworth, S. I., and Harris.)
Hartzell, Albert, assignor to Boyce-Thompson Institute for Plant Research, Inc., Yonkers, N. Y. Insecticide and method of production. 1,781,841; Nov. 18.
Harvey, Jane C., Miami, Fla. Hat holder. 1,782,302; Nov. 18.
Harwick, Henry K., Darby, Pa. Steam pipe for locomotives. 1,782,346; Nov. 18.
Hassinger, Louis. (See Trageser, A. H., and Hassinger.)
Hassman, Edward, Fleming, Colo. Corn gatherer. 1,782,067; Nov. 18.
Havens, William D., Schenectady, N. Y. Timing indicator for internal-combustion engines. 1,782,142; Nov. 18.
Hawkes, William H., New York, N. Y. Flatiron. 1,782,039; Nov. 18.
Hay, Donald L., et al. (See Mason, Max, assignor.)
Hazell, Joseph W., Washington, D. C. Negative holder. 1,782,068; Nov. 18.
Hazeltine Corporation. (See MacDonald, William A., assignor.)
Hazman, Jacob, assignor to L. Weiner, Providence, R. I. Ornamenting device and making the same. 1,781,687; Nov. 18.
Headrick, James, et al. (See Hillier, Seymour W., assignor.)
Heise, Otto W., Bridgeport, Conn., assignor to Consolidated Ashcroft Hancock Company, Inc., New York, N. Y. Retard gauge. 1,781,814; Nov. 18.
Helmecke, Arthur A., Bay City, Tex. Well tool. 1,781,903; Nov. 18.
Henderson, Joseph M., assignor to Burgess Battery Company, Madison, Wis. Method and apparatus for making dry-cell cores. 1,781,688; Nov. 18.
Henley's, W. T., Telegraph Works Company. (See Dunsheath, Percy, assignor.)
Henning, Henry H., Pymble, near Sydney, New South Wales, Australia. Electric heating apparatus for liquids. 1,782,069; Nov. 18.
Herb, Otto J. (See Thomas, G. F., and Herb.)
Herby, Wilbur R., and R. J. Unger, Dayton, Ohio. Building structure. 1,782,121; Nov. 18.
Hermans, Theodorus H. (See Vermeulen, R., van Urk, and Hermans.)
Herold, Walter F., Upper Montclair, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster. 1,781,815; Nov. 18.
Heyer, Frederic K., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Cylinder lock. 1,782,347; Nov. 18.
Higgins, Harry A., assignor to Long Manufacturing Company, Detroit, Mich. Radiator. 1,781,781; Nov. 18.
Highway Trailer Company. (See Williams, Leroy E., assignor.)
Hilgert, Mathew, deceased, New York, N. Y., L. Harper and H. M. Weiss, administratrices. Tongue for shoes. 1,781,950; Nov. 18.
Hill, Edith A. (See Mayberry, M. E., and Hill.)
Hill, Reuben, Detroit, Mich., assignor to Sargent & Greenleaf, Inc., Rochester, N. Y. Door-control apparatus. 1,782,040; Nov. 18.
Hillier, Seymour W., assignor of one-half to J. Headrick and one-fourth to G. G. Startup, Sultan, Wash. Pulley carrier for guy lines. 1,782,348; Nov. 18.
Hirsch, Joseph, Yonkers, N. Y., assignor to Kops Bros. Inc. Elastic webbing. 1,782,041; Nov. 18.
Hirsch, Sidney, assignor to Photomaton Inc., New York, N. Y. Shutter for photographic cameras. 1,781,923; Nov. 18.
Hodges, Thomas A., Tulare, Calif., and H. E. Elrod, Dallas, Tex. Oil gauge. 1,781,756; Nov. 18.
Hoeh, Albert C. (See Davis, F. M., and Hoeh.)
Hofmann, Otto U., Philadelphia, Pa. Welding and the resultant product. 1,782,234; Nov. 18.
Holden, Albert D., Texon, Tex. Golf tee. 1,781,757; Nov. 18.
Hopkins Corporation. (See Hopkins, Marcus C., assignor.)
Hopkins, Marcus C., Washington, D. C., assignor, by mesne assignments, to Hopkins Corporation, Jersey City, N. J. Electrical movement for loud-speakers. 1,782,094; Nov. 18.
Hopkins, Robert C., Alliance, Ohio. Oil strainer. 1,781,874; Nov. 18.

Hopkins, Robert C., Alliance, Ohio. Pickling tongs. 1,781,875; Nov. 18.
Horton, Allen A., Plymouth, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich. Controlling mechanism for power-driven calculating machines. 1,781,689; Nov. 18.
How, Harlan W., assignor to Buffalo Foundry & Machine Company, Buffalo, N. Y. Evaporator. 1,782,143; Nov. 18.
Howland, Thomas J., Long Branch, N. J. Apparel. 1,781,842; Nov. 18.
Hudson Motor Car Company. (See Toncray, Millard H., assignor.)
Hull, Ray B., near Dayton, Ohio. Spear pole for removing paper from the rollers of paper-making machines. 1,782,349; Nov. 18.
"Hundertfeuer" Gesellschaft für Moderne Bautentechnik mit beschränkter Haftung. (See Ludwig, Karl, assignor.)
Hupp, Ferdinand M., Clearwater, Nebr. Stock waterer. 1,782,350; Nov. 18.
I. G. Farbenindustrie Aktiengesellschaft. (See Haak, Bodo, assignor.)
Ideal Aeroplane & Supply Co. (See Kramer, William, assignor.)
Imlach, John S., Ottawa, Ontario, Canada. Device for removing wheels or other elements from their bearings. 1,782,303; Nov. 18.
Imperial Oscillating Valve Company. (See Gamache, Joseph, assignor.)
Indianapolis Pump & Tube Company. (See Noblitt, Quintin G., assignor.)
Industrial Spray-Drying Corporation. (See Uhl, Ben F., assignor.)
Ingersoll-Rand Company. (See Smith, William A., jr., assignor.)
Ingersoll, Robert H., assignor to Robt. H. Ingersoll, Inc., New York, N. Y. Razor stropper. 1,782,352; Nov. 18.
Ingersoll, Robert H., deceased, New York, N. Y., C. S. Smith, Lansing, Mich., and F. C. Leubuscher, Essex Fells, N. J., executor, assignors to Robt. H. Ingersoll, Inc., New York, N. Y. Razor-blade stropper. 1,782,351; Nov. 18.
Ingersoll, Robt. H., Inc. (See Ingersoll, Robert H., assignor.)
Innis, Merrill M., and O. S. Ward, Columbus, Ohio. Motor-vehicle brake mechanism. 1,781,843; Nov. 18.
Intertype Corporation. (See Sperry, Samuel E., assignor.)
Isaacson, Abraham, Los Angeles, Calif. Box label. 1,781,980; Nov. 18.
Isom, Edward W. (See Bell, J. E., and Isom.)
Jackman, Arthur J. (See Arensberg, F. L., and Jackman.)
Jacobson, Edward B., Pittsfield, Mass. Device for controlling the voltage of storage batteries. 1,781,844; Nov. 18.
Jaeger, Alphons O., and J. A. Bertsch, St. Louis, Mo., said Jaeger assignor to The Selden Company, Pittsburgh, Pa. Zeolite. 1,782,353; Nov. 18.
James Manufacturing Company. (See Shodron, John G., assignor.)
Jamison, Charles A., Philadelphia, Pa., assignor to Pennsylvania Crusher Company, New York, N. Y. Hammer mill. 1,781,904; Nov. 18.
Jandus, Herbert S., Detroit, Mich., assignor, by mesne assignments, to General Spring Bumper Corporation. Bumper. Des. 82,560; Nov. 18.
Jantzen, Fred, Bronx, N. Y. Furniture shoe. 1,781,951; Nov. 18.
Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)
Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Salt and pepper shaker or similar article. Des. 82,559; Nov. 18.
Jensen, Axel V., Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Rotary cement-burning kiln. 1,781,845; Nov. 18.
Jensen, Frederick H., Seattle, Wash. Pump. 1,782,144; Nov. 18.
Jensen, John E., Toronto, Ontario, assignor to The Allcock-Laight & Westwood Co., Toronto, Canada. Fishing lure. 1,782,204; Nov. 18.
Jensen, William, Pasadena, Calif. Liquid-whipping apparatus. 1,782,095; Nov. 18.
Jerram, Arthur E., Leicester, England. Starting device for motor-driven machines. 1,782,304; Nov. 18.
Jewell, Howard W., Los Angeles, Calif. Distributing conduit. 1,781,726; Nov. 18.
Johnson, Eric E. (See Cross, J. W., and Johnson.)
Johnson, James A., assignor to A. W Stimson, Los Angeles, Calif. Straight-line transmission. 1,781,924; Nov. 18.
Johnson, James A., assignor to A. W. Stimson, Los Angeles, Calif. Transmission mechanism. 1,781,925; Nov. 18.
Johnston, William H., Proctor, Minn. Adjustable liner. 1,782,846; Nov. 18.
Joubert, Lawrence, Williamstown, Ontario, Canada. Collapsible post. 1,782,168; Nov. 18.
Jovino, John B., Brooklyn, N. Y. Cartridge holder. 1,781,816; Nov. 18.
Joyce, Bryan P., Davenport, Iowa. Packing. 1,781,926; Nov. 18.
Kahn, Louis, et al. (See Strauss, Nathan J., assignor.)
Kahn, Myrtil, Cologne, W. Schepss, Leverkusen-on-the-Rhine, and L. Zeh, Wiesdorf-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Aromatic methyleneamino compounds and preparing the same. 1,781,982; Nov. 18.
Kahn, Myrtil, Cologne-Dentz-on-the-Rhine, and A. Thauss, Cologne-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Manufacture of arylalkylethers which are aralkylated in the nucleus and of their sulphonic acids. 1,781,981; Nov. 18.
Kamita, Kiyoshi, Ushigome-Ku, assignor to The Asahi Glass Company Limited, Tokyo, Japan. Preventing the weathering (especially clouding, tarnishing, and lustering) of the surface of glass. 1,782,169; Nov. 18.
Kandt, Rudolf. (See Wieczorek, Emanuel, assignor.)
Kane, Edward W. (See Douglas, J. F. H., and Kane.)
Kay, William E., Elyria, Ohio. Cutting machine. 1,782,305; Nov. 18.
Kayes, Sydney C., assignor to Montello Heel Company, Brockton, Mass. Lift for separately-formed attachable heels. 1,781,847; Nov. 18.
Kearney, Edward J., Wauwatosa, and Joseph B. Armitage, Milwaukee, assignors to Kearney & Trecker Corporation. West Allis, Wis. Machine-tool organization. 1,782,235; Nov. 18.
Kearney & Trecker Corporation. (See Kearney, E. J., and Armitage, assignors.)
Keenan, Walter F., jr., Pelham Manor, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y. Economizer. 1,782,205; Nov. 18.
Keenan, Walter F., jr., Pelham, N. Y., and H. F. Eddy, Jackson, Mich., assignors to Foster Wheeler Corporation, New York, N. Y. Superheater boiler. 1,782,096; Nov. 18.
Keene, William R., Ruleville, Miss. Cotton-picking sack. 1,782,354; Nov. 18.
Keller, Anderw P., Tiffin, Ohio. Clay-molding die. 1,782,236; Nov. 18.
Kelly, John T., Waco, Tex. Joint. 1,781,848; Nov. 18.
Kelsey-Hayes Wheel Corporation. (See Booth, William N., assignor.)
Kelvinator Corporation. (See Spreen, Charles C., assignor.)
Kemp, John B., Ridgewood, N. J., assignor to Clark Loose Leaf Manufacturing Company. Pad holder. 1,781,782; Nov. 18.
Kemp, John B., Ridgewood, N. J., assignor to Clark Loose Leaf Manufacturing Company. Pad holder. 1,781,783; Nov. 18.
Kempter, Philip, assignor to Gender, Paeschke & Frey Company, Wilwaukee, Wis. Combination bread and cake cover. Des. 82,561; Nov. 18.
Kennedy, William A., Oak Park, Ill. Rail anchor. 1,782,170; Nov. 18.
Kenyon, Charles F., assignor to Columbia Narrow Fabric Company, Shannock, R. I. Tensioning device for elastic threads. 1,781,817; Nov. 18.
Kern, Jean G., and C. J. Sala, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Vat assistant for use in dyeing. 1,782,122; Nov. 18.
Kerr, Harry E., assignor to The Barber Gas Burner Company, Cleveland, Ohio. Gas burner. 1,781,784; Nov. 18.
Kerr, Harry E., assignor to The Barber Gas Burner Company, Cleveland, Ohio. Gas burner. 1,781,785; Nov. 18.
Kidde, Walter, & Company. (See Mapes, Daniel, assignor.)
Kiddie-Rbester Co., The. (See Stoddard, Beatrice M.)
Kiesel, William F., jr., Altoona, Pa. Smoke-arch seal. 1,781,849; Nov. 18.
King, Peter J., Detroit, Mich., assignor to C. S. Hammond & Company, Inc., Brooklyn, N. Y. Cutting machine for globe construction. 1,782,237; Nov. 18.
Kinney, Paul V., Austin, assignor to MacIntyre-Fishback Mfg. Co., Pueblo, Colo. Fruit-packing bag. 1,782,355; Nov. 18.
Kirchhan, Robert O., Milwaukee, Wis. Valve. 1,782,238; Nov. 18.
Kirsten, Joseph A. G., East London, South Africa. Means or apparatus for lifting motor vehicles and the like through the medium of their wheels. 1,782,306; Nov. 18.
Kiwad, Michael, New York, N. Y., assignor to La Belle Specialty Co. Inc. Lamp or similar article. Des. 82,562; Nov. 18.
Kiwad, Michael, New York, N. Y., assignor to La Belle Specialty Co. Inc. Lamp or article of analogous nature. Des. 82,563; Nov. 18.
Kiwad, Michael, New York, N. Y., assignor to La Belle Specialty Co. Inc. Lamp or article of analogous nature. Des. 82,564; Nov. 18.
Kiwad, Michael, New York, N. Y., assignor to La Belle Specialty Co. Inc. Lamp or article of analogous nature. Des. 82,565; Nov. 18.
Klein, Joseph W., assignor to The Electric Signal Company, Limited, Los Angeles, Calif. Signal device. 1,781,927; Nov. 18.
Kleinschmidt, Edward E., assignor, by mesne assignments, to Teletype Corporation, Chicago, Ill. Printing telegraphy. 1,781,905; Nov. 18.
Kliesrath, Victor W. (See Bragg, C. S., and Kliesrath.)
Knechtel, Emerald W., Bell, Calif. Advertising sign and the like. 1,781,727; Nov. 18.
Knopp, Henry J. (See Emmes, F. C., and Knopp.)
Koch, Edwin W., Tremont, Ill. Dice box. 1,781,983; Nov. 18.
Koeppe, Albert F., St. Louis, Mo. Clamping apparatus for shoe heels. 1,781,690; Nov. 18.

Kohr, Robert F., assignor to The Studebaker Corporation, South Bend, Ind. Brake. 1,781,691; Nov. 18.
Konheim, Harvey S. (See Abersheim, W. J., and Konheim.)
Kops Bros. Inc. (See Hirsch, Joseph, assignor.)
Kornsweet, Samuel A., Venice, Calif. Combined cigarette-package holder and match box. 1,782,145; Nov. 18.
Kornsweet, Samuel A., Venice, Calif. Decorated vizor. 1,782,206; Nov. 18.
Kost, Walter. (See Füsgen, P., and Kost.)
Kramer, William, Richmond Hill, assignor to Ideal Aeroplane & Supply Co., Incorporated, New York, N. Y. Toy airplane. 1,782,385; Nov. 18.
Krantz, Hubert. Aachen, Germany. Centrifugal extractor. 1,781,984; Nov. 18.
Krasnow, Philip, Brooklyn, N. Y. Wedding ring. Des. 82,566; Nov. 18.
Kremmling, Otto, Hamersleben, near Oschersleben, Germany. Automatic dough dividing and working machine. 1,782,006; Nov. 18.
Kridel, J., Sons & Co. (See Bader, Fred W., assignor.)
Krueger, Theodore H., New York, N. Y. Package sealer. 1,782,123; Nov. 18.
Kunkel, Victor V., Los Angeles, Calif. Toy bird. 1,782,042; Nov. 18.
Kyle, William D., Milwaukee, assignor to Line Material Company, South Milwaukee, Wis. Fuse box. 1,781,876; Nov. 18.
La Belle Specialty Co. Inc. (See Kiwad, Michael, assignor.)
Ladd, Lillian R., Mobile, Ala. Bridge-game accessory. 1,781,850; Nov. 18.
Laeuger, Paul, assignor to the firm J. R. Geigy, S. A., Basel, Switzerland. Manufacture of acid dyestuffs of the phenonaphthosafranine series. 1,782,356; Nov. 18.
La Gasse, Delphis A., Fall River, Mass. Crate attachment. 1,782,307; Nov. 18.
Lahay, Dell J., Carney, assignor to Universal Playground Equipment Company, Menominee, Mich. Roundabout. 1,782,207; Nov. 18.
Lamoureux, Arthur F., and P. Sellas, Norwich, Conn. Window-shade holder. 1,782,357; Nov. 18.
Lang, Anton, Feldkirchen, near Munich, assignor of one-half to Demag Aktiengesellschaft, Duisburg, and one-half to Maschinenfabrik Fr. Schüle & Co., Feldkirchen, near Munich, Germany. Winch drum. 1,782,358; Nov. 18.
Lang, Gregory, Yuba City, Calif. Bean cutter. 1,781,851; Nov. 18.
Langenberg, Frederick C. (See Solberg, J. C., Langenberg, and Sawtelle.)
Langenberg Hat Company. (See Crenshaw, Erswell V., assignor.)
Larsen, Harry E., New York, N. Y., assignor to E. E. Aliyne, as trustee for a syndicate composed of E. E. Aliyne, R. H. White, and H. E. Larsen. Refrigerator. 1,781,758; Nov. 18.
Lattner, Paul M., Cedar Rapids, Iowa. Heat-conducting means for steam generators or fluid heaters. 1,782,171; Nov. 18.
Lavender Line, Inc. (See Fisher, Edward J., assignor.)
Lawson, Davenport, assignor to Goodyear Redwood Co., Elk, Calif. Logging system. 1,782,043; Nov. 18.
Lawson, Edith C., Geneva, N. Y. Water kettle. Des. 82,567; Nov. 18.
Lazarus, Rex H., Jackson, Mich. Flag holder. 1,782,070; Nov. 18.
Leberman, Harry, assignor to Groove Lock Co. Inc., New York, N. Y. Fastening device for pocketbooks and the like. 1,782,208; Nov. 18.
Le Blond, R. K., Machine Tool Company, The. (See Greene, William F., assignor.)
Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Attaching upholstery in automobile bodies. 1,782,239; Nov. 18.
Legge, James. (See Alderson, Herbert J., assignor.)
Le Gorre, Jean L., York, Pa. Knitting machine. 1,782,007; Nov. 18.
Le Grand, Joseph M., Baltimore, Md., assignor to Carrier Engineering Corporation. Tap. 1,781,985; Nov. 18.
Lesser, Murray, Brooklyn, N. Y. Display box. Des. 82,568; Nov. 18.
Leszay, Otto S., et al. (See Eggers, Heinrich, assignor.)
Leubuscher, Frederic C., et al., executors. (See Ingersoll, Robert H.)
Levin, Harold L., Passaic, N. J., assignor, by mesne assignments, to The Patent and Licensing Corporation, Boston, Mass. Method of and mechanism for coating roofing elements. 1,781,877; Nov. 18.
Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Cutter bit and carrier therefor. 1,782,172; Nov. 18.
Lewis, Arthur L., Newton Center, assignor to Lewis-Shepard Company, Watertown, Mass. Portable platform. 1,782,146; Nov. 18.
Lewis, Edmund W. (See Wright, F. H., and Lewis.)
Lewis, Frederick H., Chicago, Ill. Shower cabinet. 1,781,692; Nov. 18.
Lewis, G. B., Company. (See Frater, Gordon G., assignor.)
Lewis-Shepard Company. (See Lewis, Arthur L., assignor.)
Libbey-Owens-Ford Glass Company. (See Drake, John L., assignor.)
Lichty, A. N., et al. (See Anglemeyer, Herman B., assignor.)
Liebeck, Harry, Swarthmore, Pa., assignor to Scott Paper Company. Paper-making machine. 1,781,928; Nov. 18.
Lindemann, A. J., & Hoverson Company. (See Lindemann, Walter C., assignor.)
Lindemann, Walter C., assignor to A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Portable hydrocarbon stove. 1,782,008; Nov. 18.
Line Material Company. (See Kyle, William D., assignor.)
Linnhoff, Franz, Eberswalde, Germany, assignor to Ajax Electrothermic Corporation, Ajax Park, Ewing Township, N. J. Electric melting furnace. 1,782,359; Nov. 18.
Litchfield, Isaac W., Boston, Mass., assignor to Bemis Bro. Bag Company. Bag closure. 1,782,240; Nov. 18.
Ljungdahl, Janne F., Stockholm, Sweden. Potato-setting machine. 1,781,986; Nov. 18.
Logan, William B., De Quincy, La., assignor, by mesne assignments, to The Newport Company. Removing color from rosin. 1,782,267; Nov. 18.
London, Jacob M. (See Crawford, G. M., and London.)
Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 82,569; Nov. 18.
Long Manufacturing Company. (See Higgins, Harry A., assignor.)
Longnecker, Clyde G., Evanston, Ill. Double-breasted garment. Des. 82,570; Nov. 18.
Lovett, Charles H., assignor to The Cook Pottery Company, Trenton, N. J. Bracket for bathrooms. Des. 82,571; Nov. 18.
Lowe, Ernest G., Hartford, Ill. Mechanism for stretching and drying hides and leather. 1,782,097; Nov. 18.
Luckensmeier, Frederick, Reedsburg, Wis. Pneumatic cleaning tool. 1,782,308; Nov. 18.
Ludwig, Karl, Hamburg, Germany, assignor to "Hundertfeuer" Gesellschaft für Moderne Beautentechnik mit beschränkter Haftung, Hamburg, Germany. Liquid-spraying device. 1,782,309; Nov. 18.
Luse, William J., New York, N. Y. Multiple-screw fuse plug. 1,781,786; Nov. 18.
Lustgarten, Bernard, New York, N. Y. Brassière. 1,782,044; Nov. 18.
Luton, John K., assignor to The Consolidated Iron-Steel Manufacturing Company, Cleveland, Ohio. Boiler stand. Des. 82,572; Nov. 18.
Lyhne, Anker S., Bridgeport, Conn. Lip-stick holder. 1,781,852; Nov. 18.
Lynch, Frank J., assignor to The Sun Tube Corporation, Hillside, N. J. Automatic stop for extruding machines. 1,782,360; Nov. 18.
Lynch, Joseph F., Stockton, Calif. Direction signal for automobiles. 1,781,853; Nov. 18.
MacDonald, William A., Little Neck, N. Y., assignor to Hazeltine Corporation, Jersey City, N. J. Amplification system. 1,781,759; Nov. 18.
MacIldowie, John C., assignor to Asbestos Wood & Shingle Co., Nashua, N. H. Method and apparatus for preparing wet mixtures. 1,781,728; Nov. 18.
MacIntyre-Fishback Mfg. Co. (See Kinney, Paul V., assignor.)
Magnet-Werke G. m. b. H., Eisenach Spezialfabrik für Elektromagnet-Apparate. (See Bing, Julius, assignor.)
Major Equipment Co. (See Major, Roscoe E., assignor.)
Major, Roscoe E., Chicago, Ill., assignor to Major Equipment Co., Inc. Lens-holding lock for reflectors. 1,781,729; Nov. 18.
Majuschak, Joseph, Lyndhurst, N. J. Window ventilator. 1,782,098; Nov. 18.
Manheimer, Abe, & Company. (See Dugan, Earl T., assignor.)
Manning, Paul A., Madison, Ill., and Joseph W. Gates, St. Louis, Mo. Automatic air release for air brakes. 1,782,208; Nov. 18.
Manes, Daniel, Mamaroneck, assignor to Walter Kidde & Company, Inc., New York, N. Y. Release mechanism for fire-extinguishing systems. 1,781,854; Nov. 18.
Marchesini, Peter, Peabody, Mass. Abrading machine. 1,782,269; Nov. 18.
Marciano, Gerardo F., assignor to Universal Optical Corporation, Providence, R. I. Ophthalmic mounting. 1,781,760; Nov. 18.
Marshall, Benjamin H., Wilmette, Ill. Movable balcony for buildings. 1,781,787; Nov. 18.
Marvin, Lester B., Pueblo, Colo. Seat support. 1,782,241; Nov. 18.
Maschinenfabrik Fr. Schüle & Co. et al. (See Lang, Anton, assignor.)
Mason, Carl T., East Orange, assignor to Tiffany Manufacturing Company, Newark, N. J. Pressure gauge. 1,781,818; Nov. 18.
Mason, Max, Chicago, Ill., assignor of thirty per cent to L. B. Slichter, thirty per cent to D. L. Hay, and ten per cent to D. C. Slichter, Madison, Wis. Thermostat and similar control mechanism. 1,782,045; Nov. 18.
Matschei, Curt, Wettingen, Switzerland. Front-wheel driving joint with steering swivel for motor vehicles. 1,782,361; Nov. 18.
Matt, Walter J., assignor to Utica Cutlery Company, Utica, N. Y. Knife handle or similar article. Des. 82,573; Nov. 18.
Matt, Walter J., assignor to Utica Cutlery Company, Utica, N. Y. Knife handle or similar article. Des. 82,574; Nov. 18.
Mattson, Alex. (See Rauha, J. M., jr., and Mattson.)
Matusoff, Irving, et al. (See Eggers, Heinrich, assignor.)

Matzka, Wincenty, London, England. Production of a ferment. 1,781,788; Nov. 18.
Mauck, Victor, Marion, Pa. Water heater. 1,782,209; Nov. 18.
Maul, Henry C., assignor to Detroit Michigan Stove Company, Detroit, Mich. Combined heater casing and fire box. Des. 82,575; Nov. 18.
Maurer, Oscar V. (See Rittenhouse, M. J., and Maurer.)
Maxson, Louis A., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,781,906; Nov. 18.
May Manufacturing Co. Inc. (See Glintenkamp, William P., assignor.)
Mayberry, Mary E., Burlingame, and E. A. Hill, San Francisco, Calif. Rhythmic chart for child orchestration. 1,782,046; Nov. 18.
Mayer, Fred W., Chicago, Ill. Torque-controlled gear-changing mechanism. 1,781,761; Nov. 18.
McArthur, Arthur R., deceased, Gary, Ind., M. L. McArthur, executrix. 1,782,362; Nov. 18.
McArthur, Mattie L., executrix. (See McArthur, Arthur R.)
McCain, Wes W., Oak Park, assignor to Blue Valley Creamery Company, Chicago, Ill. Perforating device. 1,781,819; Nov. 18.
McCord Radiator & Mfg. Co. (See Bailey, Claude B., assignor.)
McCullough, John F. K., and B. W. Gilchrist, assignors to Ternstedt Manufacturing Company, Detroit, Mich. Chromium plating. 1,781,789; Nov. 18.
McDermid, John, Ennerdale, England. Antisiphonic liquid-seal trap. 1,781,683; Nov. 18.
McGee, William R. (See Chapper, F. E., and McGee.)
McGinnis, John A., assignor to Wheeling Stamping Company, Wheeling, W. Va. Slug-casting machine. 1,782,047; Nov. 18.
McGuinness, Frank J., Webster, Mass. Door-latch striker. 1,782,071; Nov. 18.
McGuire, Frank J. (See Friede, S. M., and McGuire.)
McGuire, Ottis M., Bridgeport, Nebr. Beet harvester. 1,781,952; Nov. 18.
McKee, Neal T., Bronxville, assignor to The Superheater Company, New York, N. Y. Exhaust-steam injector. 1,782,009; Nov. 18.
McKenzie, William M., Glenbrook, Conn. Separator. 1,781,790; Nov. 18.
McKesson & Robbins, Incorporated. (See Clement, Donald B., assignor.)
McKinstry, Frank, Nashville, Tenn. System for preventing the formation of ice on aircraft. 1,782,072; Nov. 18.
McNerney, Bernard L., Minneapolis, Minn. Electric motor. 1,782,242; Nov. 18.
McQueston, Frank S., assignor to Baxter D. Whitney & Son, Inc., Winchendon, Mass. Cutter spindle. 1,782,243; Nov. 18.
Means, Dwight R., Madena County, Ohio, assignor to Pittsburgh Plate Glass Company. Treating ammoniacal liquors. 1,781,987; Nov. 18.
Mechanical Rubber Company, The. (See Teague, Merwyn C., assignor.)
Mechlovits, Bernat, New York, N. Y. Brooch or similar article. Des. 82,576; Nov. 18.
Mechlovits, Bernat, New York, N. Y. Brooch or similar article. Des. 82,577; Nov. 18.
Mendenhall, William S., Aberdeen, Wash. Seat construction. 1,782,270; Nov. 18.
Merco Nordstrom Valve Company. (See Nordstrom, Sven J., assignor.)
Merriman, Carroll L. (See Griffin, W. M., and Merriman.)
Merryweather, Thomas, Akron, Ohio. Metal-arch member for openings. 1,782,147; Nov. 18.
Metal Hose & Tubing Co. (See Wallace, Archibald L., assignor.)
Meuer, George J. (See Stevens, W. C., and Meuer.)
Meuser, Ludwig. (See Adams, H. S., and Meuser.)
Mewes, Karl E. R., Dortmund, Germany. Liquefying and separating gas mixtures. 1,781,693; Nov. 18.
Meyer, Harold W., Brooklyn, N. Y. Fishhook spreader and making the same. 1,782,010; Nov. 18.
Meyer, Leo J., assignor of one-half to J. A. Schuler, St. Louis, Mo. Feeding mechanism for nut-cracking machines and the like. 1,782,124; Nov. 18.
Meyer, Louis, Milford, Ill. Door-operating mechanism. 1,781,694; Nov. 18.
Meyer, Walter G. (See Schneider, Michael J. N., assignor.)
Meyer, William. (See Norden, Oliver, assignor.)
Michelin & Cie. (See Bourdon, Pierre M., assignor.)
Michell, Philip A., New Brighton, N. Y., assignor to Brandes Laboratories, Inc., Newark, N. J. Acoustic device. 1,781,988; Nov. 18.
Michelman, Harry, Brooklyn, N. Y. Fire-alarm device. 1,781,855; Nov. 18.
Mifflin, B., Hood Brick Company. (See Thomas, John W., assignor.)
Milk Bottle Crate Company. (See Stoddard, Robert, assignor.)
Miller, Arthur E. (See Salisbury, H. M., and Miller.)
Miller, Charles, Long Island City, and M. Feinstein, Corona, N. Y. Shoe counter. 1,781,953; Nov. 18.
Miller, Constantine G., Chicago, Ill. Electroplating machine. 1,781,791; Nov. 18.
Miller, Rudolph, assignor, by mesne assignments, to Bohn Aluminum & Brass Corporation, Detroit, Mich. Radiator-cap construction. 1,781,878; Nov. 18.
Milligan, Charles H. (See Bradner, D. B., and Milligan.)
Mills, Chester B., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Gyrocompass reversing contact. 1,782,048; Nov. 18.
Miner, W. H., Inc. (See O'Connor, John F., assignor.)
Mitchell-Henry, Lorenzo, London, England. Reel for fishing rods and the like. 1,781,695; Nov. 18.
Monroe, Andrew J. and G. W., Arthur, Ill. Lifting attachment for road graders. 1,782,363; Nov. 18.
Monroe, George W. (See Monroe, Andrew J., and G. W.)
Montello Heel Company. (See Kayes, Sydney C., assignor.)
Moore, Raymond G., assignor to The Bassick Company, Bridgeport, Conn. Hood catch. 1,781,820; Nov. 18.
Moore, Raymond G., and Arthur Claud-Mantle, assignors to The Bassick Company, Bridgeport, Conn. Cabinet latch. 1,782,386; Nov. 18.
Morris, Lelelia, Dallas, Tex. Composition of matter. 1,781,730; Nov. 18.
Moser, Frederick C., East Brook, Pa. Cylinder honing device. 1,781,856; Nov. 18.
Motor City Sales Company. (See Hamrol, Felix, assignor.)
Motor Products Corporation. (See Pritchard, William S., assignor.)
Murphy, Edwin J., Philadelphia, Pa. Variable-speed control for electric motors. 1,781,762; Nov. 18.
Murphy, P. H., Company. (See Bonsall, Charles D., assignor.)
Murray, William S. (See Gray, D., Bailey, and Murray.)
Musher, Albert, Washington, D. C. Preserving emulsions. 1,782,011; Nov. 18.
Muth, Friedrich. (See Ballauf, F., Muth, and Schmelzer.)
Myers, Harry L. (See Wolfe, H. H., and Myers.)
Nagel-Chase Manufacturing Company, The. (See Schultz, Edward, assignor.)
Nagel, Theodore, Brooklyn, N. Y. Briquette oven. 1,782,244; Nov. 18.
Nashua Sure-Hold Company. (See Carter, Winthrop L., assignor.)
Nation, John, Highmore, S. Dak. Wrench. 1,782,364; Nov. 18.
National Tube Company. (See Robinoff, B. S., Paine, and Quillen, assignors.)
Naugatuck Chemical Company, The. (See Adams, H. S., and Meuser, assignors.)
Nease, Roy A., et al. (See Childs, John S., assignor.)
Neely, James F. (See Payne, Glade W., assignor.)
Nelson, Mary D., Minneapolis, Minn. Undergarment for women. 1,781,929; Nov. 18.
Nelson, Gordon W., and A. F. Ceres, jr., Philadelphia, Pa. Lip-stick holder. 1,782,365; Nov. 18.
Newcomb, Edward C., and D. G. Roos, assignors to The Studebaker Corporation, South Bend, Ind. Internal-combustion engine. 1,781,696; Nov. 18.
New Idea Spreader Company, The. (See Synck, Henry, assignor.)
Newlin, Charles O., Seattle, Wash. Spray brush. 1,781,763; Nov. 18.
Newport Company, The. (See Logan, William B., assignor.)
New York Air Brake Company, The. (See Campbell, Charles A., assignor.)
Nicholson, Leonard H., Chula Vista, Calif. Automobile door or window screen. 1,782,173; Nov. 18.
Nilson, John L., and J. F. Prince, Chicago, Ill. Windshield-cleaner-operating mechanism. 1,781,697; Nov. 18.
Nitralloy Corporation, The. (See Fry, Adolf, assignor.)
Noblitt, Quintin G., assignor to Indianapolis Pump & Tube Company, Indianapolis, Ind. Automobile heater. 1,781,731; Nov. 18.
Noelting, William H., assignor to Faultless Caster Company, Evansville, Ind. Detachable top-bearing caster and socket. 1,781,732; Nov. 18.
Noma Electric Corporation. (See Sadacca, Albert, assignor.)
Norden, Oliver, assignor to W. Meyer, Chicago, Ill. Hair drier. 1,781,879; Nov. 18.
Nordstrom, Sven J., assignor to Merco Nordstrom Valve Company, San Francisco, Calif. Lubricated plug valve. 1,781,821; Nov. 18.
Norwich Pharmacal Company, The. (See Copley, D. M., and Snyder, assignors.)
Nose, Toichi, Kamakura Machi, Kanagawa Ken, Japan. Aeroplane. 1,782,210; Nov. 18.
Nuetzi, Julius. (See Suter, E., and Nuetzi.)
Oblander, Herbert, assignor to Bunte Brothers, Chicago, Ill. Bottle or similar container. Des. 82,578; Nov. 18.
O'Brien, Denis F., East Orange, N. J. Valve-inserting method and mechanism. 1,781,698; Nov. 18.
O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Car construction. 1,782,211; Nov. 18.
O'Hagan, Bernard E., assignor to The Union Switch & Signal Company, Swissvale, Pa. Motor-control apparatus. 1,781,880; Nov. 18.
Olsen, Oscar B. (See Quast, A. H., and Olsen.)
Olson, Carl G., assignor to Shakeproof Lock Washer Company, Chicago, Ill. Lock washer. 1,782,387; Nov. 18.
Oneida Community, Limited. (See Gray, D., Bailey, and Murray, assignors.)

Oneida Community, Limited. (See Solbert, J. C., Langenberg, and Sawtelle, assignors.)
Orgovan, Alexander, et al. (See Eggers, Heinrich, assignor.)
Orr, Paul L., Wilkinsburg, Pa. Electrode holder. 1,781,930; Nov. 18.
Osgood, Louis A., Hartford, Conn., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,782,125; Nov. 18.
Overmyer, Clyde H., and G. J., Hartford City, Ind. Pull knob. Des. 82,579; Nov. 18.
Overmyer, Clyde H. and G. J., Hartford City, Ind. Pull handle. Des. 82,580; Nov. 18.
Overmyer, George J. (See Overmyer, Clyde H. and G. J.)
Overstreet, John T., San Antonio, Tex. Well-pumping apparatus. 1,782,310; Nov. 18.
Owen, William A., Akron, Ohio. Heel for footwear. 1,781,931; Nov. 18.
Owens, Freeman H., New York, N. Y. Talking-picture apparatus. Re17,876; Nov. 18.
Oxweld Acetylene Company. (See Giffen, Florin M., assignor.)
Paine, Sumner E. (See Robinoff, B. S., Paine, and Quillen.)
Palmer, Walter, Chester, Pa., assignor to Amdyco Corporation, New York, N. Y. Method of and apparatus for producing fire-extinguishing foam. 1,782,366; Nov. 18.
Panes, Isidore, New York, N. Y. Corset. 1,782,311; Nov. 18.
Pankey, Amos V., Harrisonburg, Va. Refrigerator. Re17,872; Nov. 18.
Pape, Byron W., Salt Lake City, Utah. Apparatus for screening, sorting, and handling material. 1,781,857; Nov. 18.
Parker, Clara B., executrix. (See Parker, George D.)
Parker, George D., deceased, Riverside, Calif., C. B. Parker, executrix. Apparatus for well drilling. 1,781,989; Nov. 18.
Parker, Walter H., Beaver, Pa., assignor, by mesne assignments, to The Wayne Pump Company, Baltimore, Md. Liquid-dispensing apparatus. 1,781,881; Nov. 18.
Parkhill, Frederic W., Kansas City, Mo. Interchangeable appliance for mixing, beating, etc. 1,782,245; Nov. 18.
Parmley, Walter C., Upper Montclair, N. J. Reenforced concrete pipe. 1,781,699; Nov. 18.
Pasternak, Martin, New York, N. Y., assignor to Radio Corporation of America. Radiocabinet. Des. 82,583; Nov. 18.
Patent and Licensing Corporation, The. (See Levin, Harold L., assignor.)
Patterson, John F., assignor to The Warren City Tank & Boiler Company, Warren, Ohio. Water roof tank. 1,782,174; Nov. 18.
Paul, Alice O., et al. (See Paul, Leonard, B., assignor.)
Paul, Leonard B., assignor of one-third to A. O. Paul, Williamstown, W. Va., and two-thirds to L. G. Zachos, Chicago, Ill. Sliding and swinging window. 1,781,858; Nov. 18.
Payne, Frank, Biltmore, N. C. Railroad-crossing signal. 1,782,312; Nov. 18.
Payne, Glade W., Vergil, assignor of one-half to J. F. Neely, Emporia, Kans. Hoisting machine. 1,781,700; Nov. 18.
Payne, Walter B. (See Tiefel, C. G., and Payne.)
Peale-Davis Company. (See Davis, Kenneth, assignor.)
Peale, Rembrandt, et al., trustees. (See Davis, Kenneth, assignor.)
Pearmain, John D., Scarborough, N. Y. Illuminated sign. 1,782,175; Nov. 18.
Pen Desk Set Company. (See Fremon, J. A., and De Haven, assignors.)
Pen Desk Set Company. (See Wahl, John C., assignor.)
Penn Art Steel Works. (See Willson, Job H., assignor.)
Pennington, Elonza A., Arkadelphia, Ark. Air-storage tank. 1,782,271; Nov. 18.
Pennsylvania Crusher Company. (See Borton, George W., assignor.)
Pennsylvania Crusher Company. (See Jamison, Charles A., assignor.)
Peperkorn, Heinrich, assignor to Schmidt'sche Heissdampf-Gesellschaft m. b. H., Cassel-Wilhelmshohe, Germany. Indirectly-heated steam generator. 1,781,764; Nov. 18.
Perla, Samuel, Brooklyn, N. Y. Lamp. Des. 82,584; Nov. 18.
Peters, Frederick J., Babylon, N. Y. Plate or the like. Des. 82,581; Nov. 18.
Petersen, Hugo, Berlin-Steglitz, Germany. Manufacture of sulphuric acid. 1,781,954; Nov. 18.
Petersen, Thorvald, assignor to Reed Manufacturing Company, Erie, Pa. Diestock. 1,781,932; Nov. 18.
Phillips, Morris G. P., London, England. Machine for removing flags and other adhering leaf from the stalks of tobacco leaves. 1,781,701; Nov. 18.
Photomaton Inc. (See Hirsch, Sidley, assignor.)
Piché, Frank W., Detroit, Mich. Brake mechanism. 1,782,176; Nov. 18.
Pierce, Frederic E., New York, N. Y. Manufacturing high-grade zinc oxide. 1,781,702; Nov. 18.
Pierce, James B., jr., assignor to Barium Reduction Corporation, Charleston, W. Va. Making hydrogen peroxide. 1,781,859; Nov. 18.
Pine Waste Products, Inc. (See Wallace, Joseph H., assignor.)
Piquerez, Emile, St. Cloud, assignor to Société Anonyme des Etablissements Técalémit, Paris, France. Pump-outflow-regulating device. 1,782,073; Nov. 18.
Pitman, Earle C., Princeton, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preventing spontaneous combustion. 1,782,126; Nov. 18.
Pittsburgh Metal Airplane Company. (See Fox, Harold E., assignor.)
Pittsburgh Plate Glass Company. (See Means, Dwight R., assignor.)
Pittsburgh Screw and Bolt Corporation. (See Shrum, Peter J., assignor.)
Pleasant, Herman E., Mansfield, Ohio, assignor to Westinghouse Electric and Manufacturing Company. Refrigerator cabinet. Des. 82,582; Nov. 18.
Poehls, Alfred F., Algoma, Wis. Adjustable base for automobile jacks. 1,782,313; Nov. 18.
Pohlson, Carl V., Pawtucket, R. I. Combined brush and hat holder. 1,781,822; Nov. 18.
Poirmeur, Louis I., Meru, France. Rotary pump of the oscillating-blade type. 1,782,314; Nov. 18.
Pondelicek, Jerry J., assignor, by mesne assignments, to Acme Motion Picture Projector Company, Chicago, Ill. Cutting machine. 1,781,703; Nov. 18.
Pormann, Robert, Union City, N. J. Attachment for looms. 1,782,099; Nov. 18.
Porter, William J., Spokane, Wash. Automobile disposal and withdrawal structure. 1,781,955; Nov. 18.
Powell, John, Salop, England. Water tap. 1,782,315; Nov. 18.
Power, Lewis R., Lawton, Mich. Lathe center. 1,782,272; Nov. 18.
Powers, Milton A., New York, N. Y., assignor, by mesne assignments, to The Timken-Detroit Company, Detroit, Mich. Burner for producing heat from liquid fuel. 1,782,049; Nov. 18.
Powers, Milton A., New York, N. Y., assignor, by mesne assignments, to The Timken-Detroit Company, Detroit, Mich. Liquid fuel heating. 1,782,050; Nov. 18.
Prince, John F. (See Nilson, J. L., and Prince.)
Pringle, William A., and L. F. Hagemann, Niagara Falls, N. Y., assignors to American Sales Book Company, Limited, Toronto, Canada. Manifolding device. 1,782,388; Nov. 18.
Pritchard, William S., assignor to Motor Products Corporation, Detroit, Mich. Weather strip. 1,781,882; Nov. 18.
Prosperity Company, The. (See Davis, Ernest, assignor.)
Prosperity Company, The. (See Schremp, E. J., and Braun, assignors.)
Pullen, Rodney S., assignor to Pullenlite Company, Philadelphia, Pa. Match packet. 1,782,074; Nov. 18.
Pullenlite Company. (See Pullen, Rodney S., assignor.)
Quaker Silver Company. (See Jennings, James W., assignor.)
Quality Hardware & Machine Corporation. (See Akers, Axel, assignor.)
Quast, Albert H., and O. B. Olsen, Chicago, Ill. Wedding ring. Des. 82,585; Nov. 18.
Quick, Herbert. (See Cooper, W. R., and Quick.)
Quillen, Wrignol E. (See Robinoff, B. S., Paine, and Quillen.)
R. & G. Company. (See Anderson, Louis A., assignor.)
Radiant Lighting Fixture Co. Inc. (See Bohl, Hugo, assignor.)
Radio Corporation of America. (See Cady, Walter G., assignor.)
Radio Corporation of America. (See Pasternak, Martin, assignor.)
Radio Corporation of America. (See Vermeulen, R., Van Urk, and Hermans, assignors.)
Rattigan, Edwin D., Philadelphia, Pa. Hydrant. 1,782,012; Nov. 18.
Rauba, John M., jr., and A. Mattson, Owen, Wis. Rotary valve. 1,782,389; Nov. 18.
Recker, John, Newark, N. J. Keyless lock. 1,782,212; Nov. 18.
Reed Manufacturing Company. (See Petersen, Thorvald, assignor.)
Reed Manufacturing Company. (See Stoeltzlen, Leo V., assignor.)
Reed Propeller Co., The. (See Reed, Sylvanus A., assignor.)
Reed, Sylvanus A., New York, N. Y., assignor to The Reed Propeller Co. Inc. Aeronautical propeller. 1,781,883; Nov. 18.
Reese, Edward F., South St. Paul, Minn. Combination luggage carrier and collapsible boat. 1,781,860; Nov. 18.
Reo Motor Car Company. (See Wells, Walter W., assignor.)
Resisto Manufacturing Company. (See Stranss, Nathan J.)
Reynolds, Robert A., Detroit, Mich. Internal-combustion engine. 1,781,704; Nov. 18.
Rheinische Metallwaaren-und Maschinenfabrik. (See Flisgen, P. and Kost, assignors.)
Richards, David K., Hilo, Hawaii. Sugar drier. 1,782,177; Nov. 18.
Richmond, Samuel, Batavia, assignor to The Edwards Manufacturing Company, Cincinnati, Ohio. Shoe-shank support. 1,782,178; Nov. 18.
Richter, George A., assignor to Brown Company, Berlin, N. H. Cyclic process of fiber liberation. 1,781,733; Nov. 18.

Ridgway, Ellis B., et al. (See Ridgway, William H., assignor.)
Ridgway, William H., et al. (See Ridgway, William H., assignor.)
Ridgway, William H., assignor to W. H. Ridgway and E. B. Ridgway, Coatesville, Pa. Overflow valve for steam hydraulic systems. 1,782,367; Nov. 18.
Riemann, Otto, Wellingsbuttel, Germany. Press. 1,782,273; Nov. 18.
Rimmelspacher, Joseph, Newark, N. J. Packing gasket. 1,782,014; Nov. 18.
Rittenhouse, Myron J., Cleveland, and O. V. Maurer, East Cleveland, Ohio; said Maurer assignor to said Rittenhouse. Radio reception apparatus. 1,781,861; Nov. 18.
Robbins, Frank D., assignor of one-half to W. A. Bond, Newberg, Oreg. Concrete mixer. 1,781,823; Nov. 18.
Roberts, Robert E. (See Austin, Charles J., assignor.)
Robinoff, Boris S., Pittsburgh, S. E. Paine, and W. E. Quillen, McKeesport, Pa., assignors to National Tube Company, Welding. 1,782,316; Nov. 18.
Rodler, Fred, Cincinnati, Ohio. Centrifugal extractor. 1,782,179; Nov. 18.
Rodman, Thomas H., New York, N. Y., assignor, by mesne assignments, to Cutler-Hammer Inc., Milwaukee, Wis. Motor controller. 1,781,792; Nov. 18.
Rogers, Horace K., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Cracking hydrocarbons. 1,781,884; Nov. 18.
Rohrbach, Adolf, Berlin-Wilmersdorf, Germany, assignor to Rohrbach Patents Corporation. Arrangement of engines on aircraft. 1,782,013; Nov. 18.
Rohrbach Patents Corporation. (See Rohrbach, Adolf, assignor.)
Rolls-Royce Limited. (See Hall, H. C., and Bradbury, assignors.)
Rolls-Royce Limited. (See Royce, Frederick H., assignor.)
Rolston, Walter F., assignor of one-half to Burson Knitting Company, Rockford, Ill. Suture. 1,781,933; Nov. 18.
Rombach, John C. (See Bell, L. D., and Rombach.)
Roos, Delmar G. (See Newcomb, E. C., and Roos.)
Roos, Delmar G., assignor to The Studebaker Corporation, South Bend, Ind. Steering mechanism. 1,781,705; Nov. 18.
Ross, Oscar A., New York, N. Y. Synchronized machine gun. 1,782,148; Nov. 18.
Roth, Robert G., Minneapolis, Minn. Hand-rake-cleaning attachment. 1,781,734; Nov. 18.
Rowledge, Arthur J. (See Royce, F. H., Rowledge, and Elliott.)
Royal Typewriter Company. (See Degener, Gustave O., assignor.)
Royal Typewriter Company. (See Handley, George F., assignor.)
Royce, Frederick H., West Wittering, near Chichester, assignor to Rolls Royce Limited, Derby, England. Electrical turning gear for starting internal-combustion engines. 1,782,318; Nov. 18.
Royce, Frederick H., West Wittering, near Chicester, A. J. Rowledge, Ellerslie, Derby, and A. G. Elliott, West Wittering, near Chichester, England. Cylinder of internal-combustion engines. 1,782,317; Nov. 18.
Ruau, Félix F., Deptford, London, England. Cigarette-making machinery. 1,782,180; Nov. 18.
Rügamer, Andreas, Pforzheim, Germany. Hygienic dental bur-cleaning apparatus. 1,781,956; Nov. 18.
Ruifs, Edward A., New York, N. Y. Coin holder. Des. 82,586; Nov. 18.
Ruppel, Frederick C., Grand Rapids, assignor, by mesne assignments, to Checker Cab Manufacturing Corporation, Kalamazoo, Mich. Latch handle. Des. 82,595; Nov. 18.
Ruskamp, Joseph, Dodge, Nebr. Stock waterer. 1,782,075; Nov. 18.
Ryan, Scully & Company. (See Beach, George F., assignor.)
Sachs, William B., Jamaica, N. Y. Flash light. 1,782,015; Nov. 18.
Sadacca, Albert, assignor to Noma Electric Corporation, New York, N. Y. Electric-lighting device. 1,781,885; Nov. 18.
Safford, Henry T., sr., El Paso, Tex. Device for pressing soap. 1,782,076; Nov. 18.
Sahner, Emil, Sackingen, Baden, Germany. Clock-actuated calendar. 1,782,274; Nov. 18.
Sala, Charles J. (See Kern, J. G., and Sala.)
Salberg, Karl. (See Crichton, James V., assignor.)
Salisbury, Hervey M., Walnut Grove, and A. E. Miller, Sacramento, Calif. Stabilizer for aeroplanes. 1,782,149; Nov. 18.
Saltzman, Joseph G. (See Atticks, H. J., and Saltzman.)
Sanderson, Arthur N., and F. H. Dana, West Springfield, and K. G. Vogel, Mittineague, Mass. Window fastener. 1,782,016; Nov. 18.
Sargent & Greenleaf, Inc. (See Hill, Reuben, assignor.)
Sawtelle, Edmund M. (See Solberg, J. C., Langenberg, and Sawtelle.)
Saylor, William P., Pittsburgh, Pa. Fastener. 1,782,275; Nov. 18.
Scheibe, Otto, Maquoketa, Iowa. Toy windmill. Des. 82,587; Nov. 18.
Scheibel, Charles, assignor to Crowe Name Plate & Manufacturing Co., Chicago, Ill. Radio tuning mechanism. 1,782,368; Nov. 18.
Schellenger, Newton C., assignor to Chicago Telephone Supply Co., Elkhart, Ind. Tube socket. 1,781,957; Nov. 18.
Schellenger, Newton C., assignor to Chicago Telephone Supply Co., Elkhart, Ind. Automatic plug. 1,781,958; Nov. 18.
Schellenger, Newton C., assignor to Chicago Telephone Supply Company, Elkhart, Ind. Rheostat. 1,781,959; Nov. 18.
Schepss, Wilhelm. (See Kahn, M., Schepss, and Zeh.)
Schleicher, Manifred, Berlin-Charlottenburg, and P. Carlo, Berlin-Grunewald, assignors to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Relay. 1,782,100; Nov. 18.
Schmelzer, Albert. (See Ballauf, F., Muth, and Schmelzer.
Schmidt, Richard. (See Eggert, J., Schmidt, and Wendt.)
Schmidt'sche Heissdampf G. m. b. H. (See Davin, George H., assignor.)
Schmidt'sche Heissdampf-Gesellschaft m. b. H. (See Peperkorn, Heinrich, assignor.)
Schnuser, Oscar, Milbank, S. Dak. Lamp gauge. 1,781,862; Nov. 18.
Schnyder, Michael J. N., Winterhaven, Fla., assignor to Walter G. Meyer, Milwaukee, Wis. Flashing. 1,782,246; Nov. 18.
Schnell, William, assignor to Ternstedt Manufacturing Company, Detroit, Mich. Radiator cap or similar article for an automotive vehicle. Des. 82,588; Nov. 18.
Schoedinger, F. O. (See Conrad, Isiah, assignor.)
Schoultz, Albert R., Joliet, Ill. Radiator trap. 1,782,319; Nov. 18.
Schremp, Edward J., Beechhurst, and P. N. Braun, assignors, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Garment or ironing press. 1,782,101; Nov. 18.
Schuler, John A. (See Meyer, Leo J., assignor.)
Schultz, Edward, assignor to The Nagel-Chase Manufacturing Company, Chicago, Ill. Combined fan and pulley. 1,781,960; Nov. 18.
Schumacher, Ernst, Frankfort-on-the-Main, Germany. Generator or producer. 1,781,765; Nov. 18.
Scott-Paine, Hubert, Southampton, England. Hull of water craft. 1,782,320; Nov. 18.
Scott Paper Company. (See Liebeck, Harry, assignor.)
Scott, Roy W., Cleveland, Ohio. Apparatus for measuring the vital capacity of the lungs. 1,781,735; Nov. 18.
Scott & Williams, Incorporated. (See Williams, L. N. D., and Swinglehurst, assignors.)
Scribner, William L., assignor to The Timken Roller Bearing Company, Canton, Ohio. Self-aligning roller bearing. 1,781,886; Nov. 18.
Scully, Walter P., assignor to G. Felsenthal & Sons, Chicago, Ill. Coin savings bank. 1,782,213; Nov. 18.
Seccombe, Pauline S. (See Wyatt, Clayton F., assignor.)
Seifarth, Ernst T., Leipzig, Germany. Bedcover frame. 1,782,276; Nov. 18.
Selden Company, The. (See Jaeger, A. O., assignor, and Bertsch.)
Sellas, Peter. (See Lamoureux, A. F., and Sellas.)
Serre, Eugene E. C., Paris, France. Reaping machine. 1,782,321; Nov. 18.
Shakeproof Lock Washer Company. (See Ohlson, Carl G., assignor.)
Shanks, William, Brooklyn, and W. B. Cater, Douglaston, N. Y., assignors to Vulcan Rail and Construction Company, Maspeth, Long Island, N. Y. Rail fitting. 1,782,017; Nov. 18.
Sharp, Fred H., Selina, Kans. Apparatus for resizing pistons. 1,782,077; Nov. 18.
Shaw, Claude C., Camden, S. C. Warp-beam lock. 1,781,736; Nov. 18.
Sheldon, Waldo, South Norwalk, Conn. Well-drilling apparatus. 1,781,706; Nov. 18.
Sheldon, Waldo, South Norwalk, Conn. Well-drilling apparatus. 1,781,707; Nov. 18.
Sheldrake, Theodore E., Philadelphia, Pa. Fastening loose ends of tire chains. 1,781,708; Nov. 18.
Sheperd, Edward S., assignor to A. D. Stewart, St. Joseph, Mo. Process and apparatus for producing felted fibrous board. 1,782,214; Nov. 18.
Sheperd, Edward S., assignor to A. D. Stewart, St. Joseph, Mo. Apparatus for producing felted fibrous board. 1,782,215; Nov. 18.
Shepherd, B. Chaffey, et al. (See Anglemeyer, Herman B., assignor.)
Shodron, John G., assignor to James Manufacturing Company, Fort Atkinson, Wis. Joist bearing plate and anchor. 1,782,216; Nov. 18.
Shoemaker, William W., New York, N. Y. Cutting tool. 1,781,863; Nov. 18.
Shrum, Peter J., Monaca Heights, Pa., assignor to Pittsburgh Screw and Bolt Corporation. Valve protector. 1,782,150; Nov. 18.
Siemens & Halske, Aktiengesellschaft. (See Schleicher, M., and Carlo, assignors.)
Silberman, Joseph, et al. (See Strauss, Nathan J., assignor.)
Simmons, Burt R., Palms, Calif. Tile machine. 1,782,051; Nov. 18.
Simmons, John W., Cleveland, Ohio, assignor, by mesne assignments, to R. S. Allyn, New York, N. Y. Combined transformer and electron-tube socket. Re17,871; Nov. 18.

Simons, George A., and G. Freeberg, assignors to Simons Millwork, Inc., Minneapolis, Minn. Breakfast-nook bench. Des. 82,589; Nov. 18.
Simons Millwork, Inc. (See Simons, G. A., and Freeberg, assignors.)
Simpson, Emil, Spooner, Wis. Sign reflector. 1,782,181; Nov. 18.
Sinclair Refining Company. (See Bell, J. E., and Isom, assignors.)
Sinclair Refining Company. (See Rogers, Horace K., assignor.)
Sizer, Albert W., Hessle, England. Molding machine. 1,782,322; Nov. 18.
Slichter, Donald C., et al. (See Mason, Max, assignor.)
Slichter, Louis B., et al. (See Mason, Max, assignor.)
Smidth, F. L., & Co. (See Jensen, Axel V., assignor.)
Smith, Augustus, Denver, Colo., assignor to C. T. Daly and M. B. Daly, Billings, Mont. Broomcorn harvester. 1,781,961; Nov. 18.
Smith, Charles S., et al., executors. (See Ingersoll, Robert H.)
Smith, Harry F., assignor to The Gas Research Company, Dayton, Ohio. Method of and apparatus for generating combustible gas and coke. 1,781,766; Nov. 18.
Smith, Harry F., assignor to The Gas Research Company, Dayton, Ohio. Gas producer. 1,781,767; Nov. 18.
Smith, Horace L., jr., assignor, by mesne assignments, to Auto Ramps Corporation, Richmond, Va. Garage ramp system. 1,782,369; Nov. 18.
Smith, Hubert J., Long Beach, Calif. Fluid-level reducer for oil wells. 1,781,824; Nov. 18.
Smith, Ralston R., Hayward, Calif. Power apparatus. 1,782,277; Nov. 18.
Smith and Wesson, Inc. (See Wesson, Harold, assignor.)
Smith, William A., jr., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve for rock drills. 1,782,102; Nov. 18.
Smith, William L., Brandywine Summit, assignor to The Viscose Company, Marcus Hook, Pa. Apparatus for preparing viscous mixtures. 1,782,370; Nov. 18.
Sno-Ko Inc. (See Goldstein, Adolph O., assignor.)
Snyder, Frederick T., New Canaan, Conn. Distilling material and cracking oil. 1,781,934; Nov. 18.
Snyder, Frederick T., New Canaan, Conn. Production of hydrogen. 1,781,935; Nov. 18.
Snyder, Helen M. (See Bartlett, Alexandra T., assignor.)
Snyder, Henry E. (See Wilson, Ford M., assignor.)
Snyder, John P. (See Copley, D. M., and Snyder.)
Société Anonyme des Etablissements Técalémit. (See Piquerez, Emile, assignor.)
Societe de Condensation et d'Applications Mecaniques. (See Florisson, Charles L., assignor.)
Societe du Carburateur Zenith. (See Boulade, Antonin, assignor.)
Société l'Air Liquide, Société Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude. (See Claude, Georges, assignor.)
Solberg, John C., Arlington, F. C. Langenberg, Watertown, Mass., and E. M. Sawtelle, New York, N. Y., assignors to Oneida Community, Limited, Oneida, N. Y. High-pressure hydraulic press. 1,782,103; Nov. 18.
Sondley, Clifford T., Newberry, S. C. Bearing grooving and pocketing machine. 1,782,104; Nov. 18.
Spear, Thomas S., Nichols, Fla. Buckle. 1,781,709; Nov. 18.
Spencer, Harry E., New York, N. Y. Weight-printing mechanism for scales. 1,781,793; Nov. 18.
Sperry Gyroscope Company. (See Mills, Chester B., assignor.)
Sperry, Samuel E., Hollis, assignor to Intertype Corporation, Brooklyn, N. Y. Mold-cooling device for linecasting machines. 1,782,371; Nov. 18.
Spiess, Georg, Leipzig, Germany. Folding machine. 1,781,768; Nov. 18.
Spiess, Georg, Leipzig-Plagwitz, Germany. Cross-folding machine. 1,782,323; Nov. 18.
Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Refrigeration. 1,782,105; Nov. 18.
Stafford, Rogers T., East Providence, assignor to B. A. Ballou & Co., Inc., Providence, R. I. Pin stem. 1,781,737; Nov. 18.
Staines, Frank, London, England. Device for cleaning and washing crockery and the like. 1,782,018; Nov. 18.
Stallan William J., Cambridge, England, assignor to Cambridge Instrument Company, Limited, London, England. Measuring or detecting device. 1,782,151; Nov. 18.
Standard Car Truck Company. (See Barber, F. L., and Webb, assignors.)
Standard Oil Company. (See Bartels, Edward E., assignor.)
Startup, G. G., et al. (See Hilliler, Seymour W., assignor.)
Statter, Estella, Sioux City, Iowa. Sanitary-napkin belt. 1,782,152; Nov. 18.
Steed, Leonard L., Johnson City, assignor to Endicott Johnson Corporation, Endicott, N. Y. Textile fabric or the like. Des. 82,591; Nov. 18.
Stern, Albert R., New York, N. Y. Uniform cap. Des. 82,590; Nov. 18.
Stevens, William C., and G. J. Meuer, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Electric switch. 1,781,710; Nov. 18.
Stewart, Albert D. (See Sheperd, Edward S., assignor.)
Stimson, Annie W. (See Johnson, James A., assignor.)
Stirling, James A., assignor, by mesne assignments, to Chicago Telephone Supply Company, Elkhart, Ind. Jack switch. 1,781,962; Nov. 18.
Stiver, Sylvester J., New Bethlehem, Pa. Skate. 1,782,078; Nov. 18.
Stoddard, Beatrice M., assignor to D. D. Comstock, Dedham, Mass., doing business as The Kiddie-Rhester Co. Play pen. 1,782,217; Nov. 18.
Stoddard, Robert, assignor to Milk Bottle Crate Company, Chicago, Ill. Milk-bottle crate. 1,781,825; Nov. 18.
Stoeltzlen, Leo V., assignor to Reed Manufacturing Company, Erie, Pa. Diestock. 1,781,936; Nov. 18.
Stoker, Paul P., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Remote-control apparatus. 1,781,963; Nov. 18.
Stoker, Paul P., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Train-counting apparatus. 1,782,052; Nov. 18.
Stoller, Michael G., Paulding, Ohio. Railroad crossing. 1,782,182; Nov. 18.
Stout, Hugh A., Shawnee, Okla. Combined display and storage device. 1,781,769; Nov. 18.
Stover, Howard L., Williamsport, Pa. Garment hanger. 1,781,991; Nov. 18.
Strauss, Nathan J., Lynbrook, N. Y., assignor of one-third to Freydberg Bros., Inc., New York, N. Y., and two-thirds to J. Silberman and L. Kahn, trading as Resisto Manufacturing Company, Baltimore, Md. Tie, tie-piece goods, and method of making. 1,782,183; Nov. 18.
Streit, Carl F., Cincinnati, Ohio. Chair or similar article. Des. 82,592; Nov. 18.
Stromberg-Carlson Telephone Manufacturing Company, The. (See Dickman, John A., assignor.)
Studebaker Corporation, The. (See Kohr, Robert F., assignor.)
Studebaker Corporation, The. (See Newcomb, E. C., and Roos, assignors.)
Studebaker Corporation, The. (See Roos, Delmar G., assignor.)
Sullivan, Dennis J., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Attachment of top lifts to wood heels. 1,781,907; Nov. 18.
Sullivan Machinery Company. (See Maxson, Louis A., assignor.)
Sumner, Richard E., Plainfield, N. J., assignor, by mesne assignments, to The Calco Chemical Company, Inc. Shellac composition. 1,781,711; Nov. 18.
Sun Oil Company. (See Alleman, Gellert, assignor.)
Sun Tube Corporation, The. (See Lynch, Frank J., assignor.)
Superheater Company, The. (See McKee, Neal T., assignor.)
Suter, Ernest, and J. Nuetzi, Milwaukee, Wis. Infra-red element for therapeutic lamps and holders. 1,782,218; Nov. 18.
Swinglehurst, Harry, jr. (See Williams, L. N. D., and Swinglehurst.)
Symington Company, The. (See Barrows, Donald S., assignor.)
Synck, Henry, assignor to The New Idea Spreader Company, Coldwater, Ohio. Manure spreader. 1,782,053; Nov. 18.
Szepsy, Ludovic, and I. Windisch, Arad, Rumania. Rail tie. 1,782,153; Nov. 18.
Tappan, Robert, Forest Hills, N. Y. Building construction. 1,781,794; Nov. 18.
Tate, James R., Toronto, Ontario, assignor to Dominion Cutout Company Limited, Toronto, Canada. Combined electric fuse and switch. 1,781,990; Nov. 18.
Taylor Instrument Companies. (See Vanderpool, William J., assignor.)
Taylor, Lawrence H., Iola, Kans. Cover for cooking utensils. 1,782,079; Nov. 18.
Taylor, Marshall, Wilkinsburg, Pa. Mean-temperature indicator. 1,782,106; Nov. 18.
Teague, Merwyn C., Elmhurst, N. Y., assignor to The Mechanical Rubber Company, Cleveland, Ohio. Method and apparatus for making inlaid sheet material. 1,782,107; Nov. 18.
Teague, Walter D., Forest Hills, N. Y., assignor to Turner Glass Corporation, Terre Haute, Ind. Bottle or similar container. Des 82,593; Nov. 18.
Teletype Corporation. (See Kleinschmidt, Edward E., assignor.)
Television Limited. (See Baird, John L., assignor.)
Ternstedt Manufacturing Company. (See McCullough, J. F. K., and Gilchrist, assignors.)
Ternstedt Manufacturing Company. (See Schnell, William, assignor.)
Tessky, Karl, Esslingen-on-the-Neckar, Germany. Shaft coupling. 1,782,324; Nov. 18.
Tetreault, Joseph P., Providence, R. I. Reinforced denture. 1,781,738; Nov. 18.
Thauss, Alfred. (See Kahn, M., and Thauss.)
Theobald, John L., Dayton, Ohio, assignor to Toledo Scale Company, Toledo, Ohio. Testing device. 1,782,127; Nov. 18.
Thomas, Arthur, Thornton Heath, and F. E. Hallahan, Southend-on-Sea, assignors to The Accounting & Tabulating Corporation, of Gt. Britain, Limited, London, England. Locking device. 1,782,080; Nov. 18.
Thomas, Donald L., New York, N. Y. Treating hydrocarbons. 1,781,826; Nov. 18.

Thomas, George F., Berwyn, and O. J. Herb, assignors to Alemite Corporation, Chicago, Ill. Filter. 1,781,964; Nov. 18.
Thomas, George N., Mankato, Minn. Vehicle heater. 1,782,325; Nov. 18.
Thomas, John W., assignor to B. Mifflin Hood Brick Company, Daisy, Tenn. Apparatus for making tiles. 1,781,992; Nov. 18.
Thomas, Robert A., Lombard, Ill. Machine for grinding mower elements. 1,782,154; Nov. 18.
Thompson, Howard A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,781,827; Nov. 18.
Thullen, Louis H., East Orange, N. J. Grinding or cutting apparatus. 1,782,128; Nov. 18.
Tiefel Charles G., and W. B. Payne, assignors to The Todd Company, Rochester, N. Y. Apparatus for printing negotiable paper. 1,781,739; No. 18.
Tiffany Manufacturing Company. (See Mason, Carl T., assignor.)
Timken-Detroit Axle Company, The. (See Brownyer, Nelson R., assignor.)
Timken-Detroit Company, The. (See Powers, Milton A., assignor.)
Timken Roller Bearing Company, The. (See Frank, Pardee H., assignor.)
Timken Roller Bearing Company, The. (See Scribner, William L., assignor.)
Todd Company, The. (See Tiefel, C. G., and Payne, assignors.)
Toledo Scale Company. (See Osgood, Louis A., assignor.)
Toledo Scale Company. (See Theobald, John L., assignor.)
Tomashek, William M., assignor to Winona Attrition Mill Company, Winona, Minn. Burr plate. 1,782,372; Nov. 18.
Tomcray, Millard H., assignor to Hudson Motor Car Company, Detroit, Mich. Hub cap. Des. 82,594; Nov. 18.
Tornquist, Walter E., Hoquiam, Wash. Hoisting tongs. 1,782,326; Nov. 18.
Toscano, Arcangelo, New York, N. Y. Nautical cylinder or tube. 1,782,155; Nov. 18.
Tracy, Homer D., Ridgewood, assignor to Barbour Flax Spinning Co., Paterson, N. J. Winding machine. 1,781,770; Nov. 18.
Trageser, Albert H., and L. Hassinger, New York, assignors to John Trageser Steam Copper Works, Maspeth, N. Y. Welding copper boiler heads. 1,782,373; Nov. 18.
Trageser, John, Steam Copper Works. (See Trageser, A. H., and Hassinger, assignors.)
Treiber, Frank A., Cumberland, Md. Antiglare device. 1,782,393; Nov. 18.
Trumbull Electric Manufacturing Company, The. (See Wheeler, Frank T., assignor.)
Turner Glass Corporation. (See Teague, Walter D., assignor.)
Two-way Electric Grinder Company, The. (See Gibson, Carter C., assignor.)
Uhl, Ben F., Richmond Hill, New York (assignor to Industrial Spray-Drying Corporation, New York, N. Y. Method and apparatus for processing materials by means of gases. 1,782,054; Nov. 18.
Union Switch & Signal Company, The. (See O'Hagan, Bernard E., assignor.)
Union Switch & Signal Company, The. (See Stoker, Paul P., assignor.)
Union Switch & Signal Company, The. (See Thompson, Howard A., assignor.)
Union Switch & Signal Company, The. (See Vanhorn, James J., assignor.)
United-Carr Fastener Corporation. (See Carr, Fred S., assignor.)
United Shoe Machinery Corporation. (See Sullivan, Dennis J., assignor.)
U. S. Bobbin & Shuttle Company, 1929. (See Baldwin, Luther C., assignor.)
U. S. Oil & Service Corporation. (See Wanamaker, E., and Bowes, assignors.)
Universal Button Fastening & Button Co. (See Ford, Ira D., assignor.)
Universal Draft Gear Attachment Co. (See Camp, Percy B., assignor.)
Universal Optical Corporation. (See Marciano, Gerardo F., assignor.)
Universal Pipe and Radiator Company, Thee. (See Crotty, Joseph J., assignor.)
Universal Playground Equipment Company. (See Lahay, Dell J., assignor.)
Unger, Raymond J. (See Herby, W. R., and Unger.)
Utica Cutlery Company. (See Matt, Walter J., assignor.)
Van Cleave, Ira H., et al. (See Anglemeyer, Herman B., assignor.)
Vanderpool, William J., assignor to Taylor Instrument Companies, Rochester, N. Y. Mechanism for starting clocks. 1,781,740; Nov. 18.
Vanhorn, James J., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,782,156; Nov. 18.
Van Urk, Arend T. (See Vermeulen R., van Urk, and Hermans.)
Vermeulen, Roelof, A. T. van Urk, and T. H. Hermans, Eindhoven, Netherlands, assignors to Radio Corporation of America. Device for converting electric oscillations into mechanical vibrations. 1,781,795; Nov. 18.
Verrecchia, John, Newark, N. J. Automatic drum player. 1,782,247; Nov. 18.
Vesuvius Crucible Company. (See Arensberg, F. L., and Jackman, assignors.)
Vicars, Edward L., assignor to T. & T. Vicars Limited, Earlestown, England. Biscuit-making and the like machine. 1,782,327; Nov. 18.
Vicars, T. & T., Limited. (See Vicars, Edward L., assignor.)
Victor, Alexander F., New York, N. Y. Film-sprocket structure. 1,781,937; Nov. 18.
Viscose Company, The. (See Smith, William L., assignor.)
Vodoz, Frederick W., Wilmette, assignor to Goodman Manufacturing Company, Chicago, Ill. Drilling mechanism. 1,781,887; Nov. 18.
Vogel, Karl G. (See Sanderson, A. N., Dana, and Vogel.)
Vogt, Hans, Berlin-Wilmersdorf, Germany. Vibrating condenser. 1,782,278; Nov. 18.
Vongunten, Alfred E., Hamilton, Ontario, Canada, assignor to The Columbus Dental Manufacturing Company, Columbus, Ohio. Artificial tooth. 1,781,908; Nov. 18.
Vulcan Rail and Construction Company. (See Shanks, W., and Cater, assignors.)
Wagner, Karl F., Feuerbach, near Stuttgart, Germany, assignor to Elektronmetall G. m. b. H., Cannstatt-Stuttgart, Germany. Pressure die-casting appliance. 1,782,248; Nov. 18.
Wahl, John C., Chicago, Ill., assignor, by mesne assignments, to Pen Desk Set Company. Desk stand and holder for fountain pens. 1,782,108; Nov. 18.
Wallace, Archibald, L., assignor to Metal Hose & Tubing Co., Inc., Brooklyn, N. Y. Machine for use in assembling hose-coupling parts and the like. 1,782,219; Nov. 18.
Wallace, Joseph H., Stamford, Conn., assignor to Pine Waste Products, Inc., New York, N. Y. Wood-pulp material. 1,781,712; Nov. 18.
Wallace, William S., et al., trustees. (See Davis, Kenneth, assignor.)
Walls, John A., Baltimore, Md. Air-filtering device for heating apparatus. 1,782,374; Nov. 18.
Walstrom, Axel M., Minneapolis, Minn., assignor to Elgin Butter Tub Company, Elgin, Ill. Cover and process of making. 1,782,157; Nov. 18.
Wanamaker, Ernest, and L. C. Bowes, Chicago, Ill., assignors to U. S. Oil & Service Corporation, New York, N. Y. Steam-generating apparatus. 1,782,220; Nov. 18.
Wanders, Hans H., Boston, Mass. Heating pad. 1,781,741; Nov. 18.
Ward, Orville S. (See Innis, M. M., and Ward.)
Warner Mfg. Co. (See Cadman, Addi B., assignor.)
Warren City Tank & Boiler Company, The. (See Patterson, John F., assignor.)
Warren Telechron Company. (See Frankl, Paul T., assignor.)
Wayne Company. (See Griffin, W. M., and Merriman, assignors.)
Wayne Pump Company, The. (See Parker, Walter H., assignor.)
Wearham, Gordon A., London, England. Display apparatus and operating the same. 1,782,328; Nov. 18.
Webb, Edwin W. (See Barber, F. L., and Webb.)
Webb, Jervis B. (See Da Costa, James S., assignor.)
Webster, Benjamin C., Southport, Conn., assignor to The Byrant Electric Company, Bridgeport, Conn. Making mounting elements with plaster ears. 1,782,329; Nov. 18.
Weidlinger, Frank, Bethlehem, Pa. Direction indicator. 1,781,888; Nov. 18.
Weiner, Leo. (See Hazman, Jacob, assignor.)
Weiss, Charles, New York, N. Y. Pitcher or the like. Des. 82,545; Nov. 18.
Weiss, Hazel M., et al., administratrices. (See Hilgert, Mathew.)
Wells, Walter W., assignor to Reo Motor Car Company, Lansing, Mich. Transmission. 1,782,184; Nov. 18.
Wemp, Ernest E., Detroit, Mich. Differential-action clutch. 1,782,158; Nov. 18.
Wendt, Bruno. (See Eggert, J., Schmidt, and Wendt.)
Werlich, John, Preston, Ontario, Canada. Child's wagon. 1,782,330; Nov. 18.
Werner, Pauline, née Fresenius, Stuttgart, Germany. Bust support. 1,782,279; Nov. 18.
Werner, Vernon S., Morris, Ill. Combination cigarette container, igniter, and ejector. 1,782,081; Nov. 18.
Wertzberger, Dallas D., Tulsa, Okla. Foot casting for derricks and using the same. 1,781,889; Nov. 18.
Wesson, Harold, assignor to Smith and Wesson, Inc., Springfield, Mass. Flush valve. 1,782,221; Nov. 18.
Wesson, Harold, assignor to Smith and Wesson, Inc., Springfield, Mass. Flush valve. 1,782,222; Nov. 18.
Western Stoneware Company. (See Dains, Irven F., assignor.)
Westinghouse Electric and Manufacturing Company. (See Pleasant, Herman E., assignor.)
Wetzler, Arnold, Far Rockaway, N. Y. Box. 1,782,110; Nov. 18.
Wheeler, Frank T., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Fuse cabinet or panel board. 1,782,019; Nov. 18.
Wheeling Stamping Company. (See McGinnis, John A., assignor.)

Whiteley, Wilfred, Elland, England, assignor to Eadie Brothers and Company Limited Paisley Scotland. Lubricating rings and travelers in doubling and like frames. 1,781,828; Nov. 18.
Whitney, Baxter D., & Son, Inc. (See McQueston, Frank S., assignor.)
Wichtendahl, Karl, Gotha, Fla. Gambrel. 1,782,082; Nov. 18.
Wieczorek, Emanuel, Breslau, assignor to R. Kandt, Leipzig, Germany. Brake mechanism with brake block for motor vehicles. 1,781,993; Nov. 18.
Wilcox, Frank T., assignor to The Firex Extinguisher Company, Norwalk, Ohio. Fire extinguisher. 1,782,083; Nov. 18.
Wilhelm, Benjamin L., Chicago, Ill. Lens attachment for eyes. 1,782,331; Nov. 18.
Willcox, Frederick H., and E. P. Everhard, assignors to Freyn Engineering Company, Chicago, Ill. Burner. 1,781,796; Nov. 18.
Willenbring, Arnold B., Richmond, Minn. Windmill. 1,782,280; Nov. 18.
Williams, Harrison R., New York, N. Y. Mak'ng packing material and product. 1,781,797; Nov. 18.
Williams, John D., Niles, Ohio. Roll heater. 1,781,798; Nov. 18.
Williams, Leroy E., assignor to Highway Trailer Company, Edgerton, Wis. Demountable cover for dumping bodies. 1,781,713; Nov. 18.
Williams, Louis N. D., Ogontz, Pa., and H. Swinglehurst, jr., Brooklyn, assignors to Scott & Williams, Incorporated, New York, N. Y. Loop retainer and mechanism therefor. 1,782,375; Nov. 18.
Willson, Job H., assignor to Penn Art Steel Works, Erie, Pa. Receptacle. 1,781,909; Nov. 18.
Wilson, Charles T., Company. (See Giesecke, William E., assignor.)
Wilson, Ford M., assignor of one-half to H. E. Snyder, Liberal, Kans. Wrench. 1,781,994; Nov. 18.
Wilson Rings Company. (See Wilson, Wylie G., assignor.)
Wilson, Wylie G., assignor to Wilson Rings Company, Jersey City, N. J. Valve. 1,781,771; Nov. 18.
Wiltse Appliance Company. (See Wiltse, Sumner, assignor.)
Wiltse, Sumner, Detroit, Mich., assignor to Wiltse Appliance Company. Priming device. 1,781,890; Nov. 18.
Windisch, Ignacz. (See Szepsy, L., and Windisch.)
Winkelmann, Herbert A. (See Fisher, H. L., and Winkelmann.)
Winona Attrition Mill Company. (See Tomashek, William M., assignor.)
Wiswell, Ozro N. (See Allen, S. E., and Wiswell.)
Wolfe, Harry H., and H. L. Myers, assignors to The American Floor Surfacing Machine Company, Toledo, Ohio. Rotary drum machine. 1,782,376; Nov. 18.
Wolnik, Max, Brooklyn, N. Y. Mechanism for receiving and weighing coins. 1,782,249; Nov. 18.
Wright, Frederick H., and E. W. Lewis, London, England. Meat-mincing and sausage-meat-making machine. 1,782,084; Nov. 18.
Wyatt, Clayton F., assignor, by mesne assignments, of one-half to P. S. Seccombe. Draft and noise stop. 1,781,864; Nov. 18.
Yale & Towne Manufacturing Company, The. (See Heyer, Frederic K., assignor.)
Yates & Grant, Inc. (See Forbes, John S., assignor.)
Yonekura, Tario, Takaoka, Fuji-Gun, Japan. Cylinder mold of paper-making machines. 1,782,281; Nov. 18.
Young, Robert S., New Brighton, N. Y. Holder for paper slips. 1,782,185; Nov. 18.
Zachos, Louis G., et al. (See Paul, Leonard B., assignor.)
Zander, M. W., et al. (See Anglemeyer, Herman B., assignor.)
Zeh, Ludwig. (See Kahn, M., Schepss, and Zeh.)
Zent, Abram L., Dayton, Ohio. Coin-controlled apparatus. 1,782,250; Nov. 18.
Zerwig, Frank T., Ste. Genevieve, Mo. Wheel scraper. 1,782,085; Nov. 18.
Zundel, Eugene A., Chicago, Ill. Closet chair. 1,781,938; Nov. 18.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 18TH DAY OF NOVEMBER, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abrading machine. P. Marchesini. 1,782,269; Nov. 18.
Acid, Manufacture of sulphuric. H. Petersen. 1,781,954; Nov. 18.
Acids, Apparatus for distilling fatty. H. Bollman. 1,781,745; Nov. 18.
Acoustic device. P. A. Michell. 1,781,988; Nov. 18.
Aeroplane. F. G. Diago. 1,782,256; Nov. 18.
Aeroplane. T. Nose. 1,782,210; Nov. 18.
Aeroplane-cloth speaker. U. Grier. 1,781,949; Nov. 18.
Aeroplanes, Stabilizer for. H. M. Salisbury and A. E. Miller. 1,782,149; Nov. 18.
Air-cleansing device, Automotive. H. B. Anglemeyer. 1,781,742; Nov. 18.
Aircraft, System for preventing the formation of ice on. F. McKinstry. 1,782,072; Nov. 18.
Air release for air brakes, Automatic. P. A. Manning and J. W. Gates. 1,782,268; Nov. 18.
Alarm apparatus. J. A. Bolduc. 1,782,190; Nov. 18.
Alarm device. E. Bahr. 1,782,378; Nov. 18.
Alarm device, Fire-. H. Michelman. 1,781,855; Nov. 18.
Alloy, Aluminum. H. C. Hall and T. F. Bradbury. 1,782,300; Nov. 18.
Amines, Treating mixtures of. H. S. Adams and L. Meuser. 1,782,112; Nov. 18.
Amplification system. W. A. MacDonald. 1,781,759; Nov. 18.
Amusement device. L. L. Cook. 1,782,163; Nov. 18.
Anchor, Rail. W. A. Kennedy. 1,782,170; Nov. 18.
Animal trap. B. W. Booth. 1,782,253; Nov. 18.
Antiglare device. F. T. Conner. 1,781,777; Nov. 18.
Antiglare device. F. A. Treiber. 1,782,393; Nov. 18.
Apparatus for maintaining a predetermined water level in steam boilers. G. H. Davin. 1,781,749; Nov. 18.
Apparel. T. J. Howland. 1,781,842. Nov. 18.
Apparel, Wearing. E. V. Crensbaw. 1,781,832; Nov. 18.
Appliance for mixing, beating, etc., Interchangeable. F. W. Parkhill. 1,782,245; Nov. 18.
Arch member for openings, Metal. T. Merryweather. 1,782,147; Nov. 18.
Articles having tarnish-resisting surface and making same. D. Gray, R. O. Bailey, and W. S. Murray. 1,782,092; Nov. 18.
Arylalkylethers which are aralkylated in the nucleus and of their sulphonic acids, Manufacture of. M. Kahn and A. Thauss. 1,781,981; Nov. 18.
Asphaltic material and process for manufacture. G. Abson. 1,782,186; Nov. 18.
Automobile body and constructing a body. R. Calpin. 1,782,230; Nov. 18.
Automobile disposal and withdrawal structure. W. J. Porter. 1,781,955; Nov. 18.
Automobile heater. G. G. Noblitt. 1,781,731; Nov. 18.
Bag: *See*—
Fruit-picking bag.
Bag shaker and feeder. H. Anderson. 1,781,714; Nov. 18.
Baking and molding device. J. L. Balton. 1,782,088; Nov. 18.
Balcony for buildings, Movable. B. H. Marshall. 1,781,787; Nov. 18.
Ball and bladder therefor, Inflatable playing. J. R. Denkert. 1,782,198; Nov. 18.
Band, Holding. W. L. Carter. 1,782,194; Nov. 18.
Bank, Coin savings. W. P. Scully. 1,782,213; Nov. 18.
Bank, Savings. E. J. Fisher. 1,781,920; Nov. 18.
Batteries, Device for controlling the voltage of storage. E. B. Jacobson. 1,781,844; Nov. 18.
Bean cutter. G. Lang. 1,781,851; Nov. 18.
Bearing for cars, Lateral-motion roller. F. L. Barber and E. W. Webb. 1,782,130; Nov. 18.
Bearing grooving and pocketing machine. C. T. Sondley. 1,782,104; Nov. 18.
Bearing, Self-aligning roller. W. L. Scribner. 1,781,886; Nov. 18.
Bedcover frame. E. T. Seifarth. 1,782,276; Nov. 18.
Beds, Unit twin. F. M. De Leon. 1,781,807; Nov. 18.
Belt, Sanitary-napkin. E. Statter. 1,782,152; Nov. 18.
Belt-tightening mechanism for motor-driven supply units. H. Dalton. 1,782,195; Nov. 18.
Biscuit-making and the like machine. E. L. Vicars. 1,782,327; Nov. 18.
Blowpipe head. F. M. Giffen. Des. 82,551; Nov. 18.
Boiler: *See*—
Superheater boiler.
Boiler heads, Welding copper. A. H. Trageser and L. Hassinger. 1,782,373; Nov. 18.
Boiler stand. J. K. Luton. Des. 82,572; Nov. 18.
Boot hook. F. E. Chapper and W. R. McGee. 1,781,748; Nov. 18.
Bottle or similar container. H. Oblander. Des. 82,578; Nov. 18.
Bottle or similar container. W. D. Teague. Des. 82,593; Nov. 18.
Box: *See*—
Dice box.
Fuse box.
Journal box.
Resistance box.
Switch box.
Box. A. Wetzler. 1,782,110; Nov. 18.
Box for jewelry and the like. H. J. Farrington. 1,781,779; Nov. 18.
Bracket: *See*—
Roller bracket.
Bracket for bathrooms. C. H. Lovett. Des. 82,571; Nov. 18.
Brake. R. F. Kohr. 1,781,691; Nov. 18.
Brake mechanism. F. W. Piché. 1,782,176; Nov. 18.
Brake mechanism for railways cars. P. B. Camp. 1,781,805; Nov. 18.
Brake mechanism, Hydraulically-actuated. C. S. Bragg and V. W. Kliesrath. 1,781,868–9; Nov. 18.
Brake mechanism, Motor-vehicle-. M. M. Innis and O. S. Ward. 1,781,843; Nov. 18.
Brake mechanism with brake block for motor vehicles. E. Wieczorek. 1,781,993; Nov. 18.
Brassière. B. Lustgarten. 1,782,044; Nov. 18.
Breakfast-nook bench. G. A. Simons and G. Freeberg. Des. 82,589; Nov. 18.
Bridge member for an optical mounting. W. P. Glintenkamp. Des. 82,550; Nov. 18.
Bridge-warning indicator. H. R. Campbell. 1,781,675; Nov. 18.
Brooch or similar article. B. Mechlovits. Des. 82,576–7; Nov. 18.
Brush, Spray. C. O. Newlin. 1,781,763; Nov. 18.
Buckle, T. S. Spear. 1,781,709; Nov. 18.
Building construction. R. Tappan. 1,781,794; Nov. 18.
Building structure. W. R. Herby and R. J. Unger. 1,782,121; Nov. 18.
Bumper. H. S. Jandus. Des. 82,560; Nov. 18.
Burner: *See*—
Gas burner.
Burner. F. H. Willcox and E. P. Everhard. 1,781,796; Nov. 18.
Burner for producing heat from liquid fuel. M. A. Powers. 1,782,049; Nov. 18.
Burr plate. W. M. Tomashek. 1,782,372; Nov. 18.
Cabinet, Knockdown metal. G. T. Gourley. 1,782,344; Nov. 18.
Cabinet or panel board, Fuse. F. T. Wheeler. 1,782,019; Nov. 18.
Cabinet, Refrigerator. H. E. Pleasant. Des. 82,582; Nov. 18.
Cabinet Shower. F. H. Lewis. 1,781,692; Nov. 18.
Calendar, Clock-actuated. E. Sahner. 1,782,274; Nov. 18.
Cameras, Shutter for photographic, S. Hirsch. 1,781,923; Nov. 18.
Cap, Hub. M. H. Toncray. Des. 82,594; Nov. 18.
Cap, Uniform. A. R. Stern. Des. 82,590; Nov. 18.
Car construction. J. F. O'Connor. 1,782,211; Nov. 18.
Car wheel. F. B. Bell. 1,781,867; Nov. 18.
Carbazole-indophenol compounds and preparing the same. F. Bollauf, F. Muth, and A. Schmelzer. 1,781,966; Nov. 18.
Carbonaceous material, Method and apparatus for distilling solid. H. L. Doherty. 1,781,871; Nov. 18.
Carburetor. A. Boulade. 1,782,027; Nov. 18.
Carline reenforcement and load-lifting arrangement. C. D. Bonsall. 1,781,775; Nov. 18.
Carrier and collapsible boat, Combination luggage. E. F. Reese. 1,781,860; Nov. 18.
Case: *See*—
Vanity case.
Casing and fire box, Combined heater. H. C. Maul. Des. 82,575; Nov. 18.
Casing for a liquid-dispensing apparatus. W. M. Griffin and C. L. Merriman. Des. 82,557; Nov. 18.
Caster. W. F. Herold. 1,781,815; Nov. 18.
Caster and socket, Detachable top-bearing. W. H. Nocltling. 1,781,732; Nov. 18.
Casting for derricks and using the same, Foot. D. D. Wertzberger. 1,781,889; Nov. 18.
Catch, Hood. R. G. Moore. 1,781,820; Nov. 18.
Cell cores, Method of and apparatus for making dry. J. M. Henderson. 1,781,688; Nov. 18.
Centrifugal drier. L. B. Green. 1,782,264; Nov. 18.
Centrifugal extractor. H. Krantz. 1,781,984; Nov. 18.
Centrifugal extractor. F. Rodler. 1,782,179; Nov. 18.
Ceramic products, Manufacture of. V. M. Goldschmidt. 1,782,295; Nov. 18.
Chain and making same, Mesh. W. Forstner. 1,782,004; Nov. 18.

Chain for automobiles, Antiskid. D. Bartoletti. 1,782,283; Nov. 18.
Chair: *See*—
Closet chair.
Chair. A. T. Bartlett. Des. 82,538; Nov. 18.
Chair or similar article. C. F. Streit. Des. 82,592; Nov. 18.
Chlorine, Fixing or recovering. E. O. Barstow. 1,781,830; Nov. 18.
Chopper: *See*—
Cotton chopper.
Chromium plating. J. F. K. McCullough and B. W. Gilchrist. 1,781,789; Nov. 18.
Chuck. S. H. Earl. 1,781,721; Nov. 18.
Cigarette case, lighter, and ash tray, Combination. D. S. Beyer. 1,782,026; Nov. 18.
Cigarette-making machinery. F. F. Ruau. 1,782,180; Nov. 18.
Clamp: *See*—
Sliding clamp.
Clamp. J. Berezowski. 1,781,997; Nov. 18.
Clamp and making the same. J. W. Harding. 1,782,266; Nov. 18.
Clamping apparatus for shoe heels. A. F. Koeppe. 1,781,690; Nov. 18.
Clay-molding die. A. P. Keller. 1,782,236; Nov. 18.
Clock casing and dial therefor or similar article, Combined. P. T. Frankl. Des. 82,548; Nov. 18.
Clocks, Mechanism for starting. W. J. Vanderpool. 1,781,740; Nov. 18.
Closet chair. E. A. Zundel. 1,781,938; Nov. 18.
Closure, Bag. I. W. Litchfield. 1,782,240; Nov. 18.
Clutch, Differential-action. E. E. Wemp. 1,782,158; Nov. 18.
Coal-loading machine. G. M. Crawford and J. M. London. 1,781,895; Nov. 18.
Coin-controlled apparatus. A. L. Zent. 1,782,250; Nov. 18.
Coins, Mechanism for receiving and weighing. M. Wolnik. 1,782,249; Nov. 18.
Collapsible post. L. Joubert. 1,782,168; Nov. 18.
Collar. J. N. Collings. 1,782,000; Nov. 18.
Collar, Shirt. H. Bezner. 1,782,336; Nov. 18.
Color from rosin, Removing. W. B. Logan. 1,782,267; Nov. 18.
Color lakes from petroleum, Manufacturing. G. Alleman. 1,781,772; Nov. 18.
Combustion, Preventing spontaneous. E. C. Pitman. 1,782,126; Nov. 18.
Composition of matter. L. Morris. 1,781,730; Nov. 18.
Compound, Coating. S. J. Charlesworth and A. W. Harris. 1,782,341; Nov. 18.
Concentrating machine. C. N. Bielenberg. 1,781,971; Nov. 18.
Concrete mixer. F. D. Robbins. 1,781,823; Nov. 18.
Concrete mixer and agitator. C. F. Ball. 1,781,965; Nov. 18.
Concrete pipe, Reenforced-. W. C. Parmley. 1,781,699; Nov. 18.
Condenser, Vibrating. H. Vogt. 1,782,278; Nov. 18.
Conduit, Distributing. H. W. Jewell. 1,781,726; Nov. 18.
Connecters, Lubricating. B. S. Burrell. 1,782,337; Nov. 18.
Container. F. J. Funke. 1,782,120; Nov. 18.
Container, igniter, and ejector, Combination cigarette. V. S. Werner. 1,782,081; Nov. 18.
Control apparatus, Remote. P. P. Stoker. 1,781,963; Nov. 18.
Control switch. H. E. Chipman. 1,781,892–3; Nov. 18.
Controlling mechanism for power-driven calculating machines. A. A. Horton. 1,781,689; Nov. 18.
Conveyer. H. C. Dodge and W. H. Beane. 1,781,750; Nov. 18.
Conveyer, Furnace. G. F. Beach. 1,782,335; Nov. 18.
Cooling device for line-casting machines, Mold-. S. E. Sperry. 1,782,371; Nov. 18.
Corn gatherer. E. Hassman. 1,782,067; Nov. 18.
Corn popper. A. H. Basel. 1,781,678; Nov. 18.
Corset. I. Panes. 1,782,311; Nov. 18.
Cotton chopper. J. W. Allen. 1,781,829; Nov. 18.
Coupling: *See*—
Shaft coupling.
Cover and process of making. A. M. Walstrom. 1,782,157; Nov. 18.
Cover, Combination bread and cake. P. Kempter. Des. 82,561; Nov. 18.
Cover for cooking utensils. L. H. Taylor. 1,782,079; Nov. 18.
Cover for dumping bodies, Demountable. L. E. Williams. 1,781,713; Nov. 18.
Cover, Thief-hole. C. Ehret. 1,781,722; Nov. 18.
Crane-operated device. O. A. Bartholomew. 1,781,943; Nov. 18.
Crate attachment. D. A. La Gasse. 1,782,307; Nov. 18.
Crate, Milk-bottle. R. Stoddard. 1,781,825; Nov. 18.
Crockery and the like, Device for cleaning and washing. F. Staines. 1,782,018; Nov. 18.
Cross-flooding machine. G. Spiess. 1,782,323; Nov. 18.
Crossing signal, Railroad-. F. Payne. 1,782,312; Nov. 18.
Crusher: *See*—
Hammer crusher.
Cultivator hitch. A. Blecha. 1,781,972; Nov. 18.
Current-rectifying apparatus. C. B. Bartley and V. H. Dake. 1,782,228; Nov. 18.
Current, Unilateral conductor for rectifying alternating. H. G. André. 1,782,129; Nov. 18.
Cutter: *See*—
Bean cutter.
Cutter bit and carrier therefor. N. D. Levin. 1,782,172; Nov. 18.
Cutter spindle. F. S. McQueston. 1,782,243; Nov. 18.
Cutting machine. W. E. Kay. 1,782,305; Nov. 18.
Cutting machine. J. J. Pondelicek. 1,781,703; Nov. 18.
Cutting machine for globe construction. P. J. King. 1,782,237; Nov. 18.
Cylinder-honing device. F. C. Moser. 1,781,856; Nov. 18.
Cylinder lock. F. K. Heyer. 1,782,347; Nov. 18.
Cylinder of internal-combustion engine. F. H. Royce, A. J. Rowledge, and A. G. Elliott. 1,782,317; Nov. 18.
Cylinder or tube, Nautical. A. Toscano. 1,782,155; Nov. 18.
Dental burr-cleaning apparatus, Hygienic. A. Rügamer. 1,781,956; Nov. 18.
Denture, Reenforced. J. P. Tetreault. 1,781,738; Nov. 18.
Desk. W. E. Gunn. Des. 82,558; Nov. 18.
Desk stand, Fountain-pen. J. A. Fremon and A. S. De Haven. 1,782,109; Nov. 18.
Device for converting electric oscillations into mechanical vibrations. R. Vermeulen, A. T. van Urk, and T. H. Hermans. 1,781,795; Nov. 18.
Dice box. E. W. Koch. 1,781,983; Nov. 18.
Die: *See*—
Clay-molding die.
Die-casting appliance, Pressure. K. F. Wagner. 1,782,248; Nov. 18.
Die-casting method and machine, Multiple-mixture. A. Akers. 1,781,939; Nov. 18.
Diestock. T. Petersen. 1,781,932; Nov. 18.
Diestock. L. V. Stoeltzlen. 1,781,936; Nov. 18.
Differential. C. Andrade, jr. 1,781,996; Nov. 18.
Dimmers, Actuating means for electric-light. H. J. Atticks and J. G. Saltzman. 1,782,390; Nov. 18.
Direction indicator. F. Weidlinger. 1,781,888; Nov. 18.
Dish or similar article, Glass. W. J. Graham. Des. 82,554; Nov. 18.
Disk wheel. W. N. Booth. Des. 82,540; Nov. 18.
Dispensing apparatus, Liquid-. W. H. Parker. 1,781,881; Nov. 18.
Display and storage device, Combined. H. A. Stout. 1,781,769; Nov. 18.
Display apparatus and operating the same. G. A. Wearham. 1,782,328; Nov. 18.
Display box. M. Lesser. Des. 82,568; Nov. 18.
Display case. J. G. Green. Des. 82,556; Nov. 18.
Display stand, Goods-vending. G. P. Grant. Des. 82,555; Nov. 18.
Display stand, Revolving. C. Dumler. 1,782,257; Nov. 18.
Distilling material and cracking oil. F. T. Snyder. 1,781,934; Nov. 18.
Documents transmitted by radio, Device for recording. E. Belin. 1,781,944; Nov. 18.
Door-control apparatus. R. Hill. 1,782,040; Nov. 18.
Doorlatch striker. F. J. McGuinness. 1,782,071; Nov. 18.
Door-operating apparatus, Elevator-. G. L. Allen. 1,782,223; Nov. 18.
Door-operating mechanism. L. Meyer. 1,781,694; Nov. 18.
Door or window screen, Automobile. L. H. Nicholson. 1,782,173; Nov. 18.
Dough dividing and working machine, Automatic. O. Kremmling. 1,782,006; Nov. 18.
Dress. D. Long. Des. 82,569; Nov. 18.
Drier: *See*—
Centrifugal drier.
Hair drier.
Sugar drier.
Drilling mechanism. F. W. Vodoz. 1,781,887; Nov. 18.
Drum machine, Rotary. H. H. Wolfe and H. L. Myers. 1,782,376; Nov. 18.
Drum player, Automatic. J. Verrecchia. 1,782,247; Nov. 18.
Dyestuffs of the phenonaphthosafranine series, Manufacture of acid. P. Laeuger. 1,782,356; Nov. 18.
Easel, Artist's. G. W. Cahall. 1,782,118; Nov. 18.
Economizer. W. F. Keenan, jr. 1,782,205; Nov. 18.
Elastic webbing. J. Hirsch. 1,782,041; Nov. 18.
Electric-cell-testing machine. V. T. Comer. 1,781,914; Nov. 18.
Electric machine, Synchronous dynamo-. J. F. H. Douglas and E. W. Kane. 1,782,200; Nov. 18.
Electric melting furnace. F. Linnhoff. 1,782,359; Nov. 18.
Electric motor. B. L. McNerney. 1,782,242; Nov. 18.
Electric switch. W. C. Stevens and G. J. Meuer. 1,781,710; Nov. 18.
Electrical machines with transformer banks by phase changing and voltage changing, Connecting. F. W. Gay. 1,782,263; Nov. 18.
Electrical machines with transformer banks, Connecting. F. W. Gay. 1,782,262; Nov. 18.
Electrical movement for loud-speakers. M. C. Hopkins. 1,782,094; Nov. 18.
Electricity, Discharge bar for neutralizing static. W. H. Chapman. 1,782,340; Nov. 18.
Electromechanical system. W. G. Cady. 1,781,680; Nov. 18.

Electroplating machine. C. G. Miller. 1,782,791; Nov. 18.
Elevator: *See*—
Well elevator.
Elevator mechanism. J. S. Da Costa. 1,781,806; Nov. 18.
Embalmer's plug. C. L. Arnold. 1,782,332; Nov. 18.
Emulsions, Preserving. A. Musher. 1,782,011; Nov. 18.
Engine: *See*—
Internal-combustion engine
Reciprocating engine.
Engines, Charge forming device for internal-combustion. F. E. Aseltine. 1,782,333; Nov. 18.
Engines on aircraft, Arrangement of. A. Rohrbach. 1,782,013; Nov. 18.
Eraser attachment for typewriters. S. A. Crosby. 1,782,060; Nov. 18.
Evaporator. H. W. How. 1,782,143; Nov. 18.
Extractor: *See*—
Centrifugal extractor.
Fabric or the like, Textile. L. L. Steed. Des. 82,591; Nov. 18.
Fan and pulley, Combined. E. Schultz. 1,782,960; Nov. 18.
Fastener. W. P. Saylor. 1,782,275; Nov. 18.
Fastener stud, Snap-. F. M. Elliott. 1,782,293; Nov. 18.
Fastener, Window. A. N. Sanderson, F. H. Dana, and K. G. Vogel. 1,782,016; Nov. 18.
Fastening device for pocketbooks and the like. H. Leberman. 1,782,208; Nov. 18.
Fastening loose ends of tire chains. T. E. Sheldrake. 1,781,708; Nov. 18.
Ferment, Production of a. W. Matzka. 1,781,788; Nov. 18.
Fiber liberation, Cyclic process of. G. A. Richter. 1,781,733; Nov. 18.
Fibrous board, Apparatus for producing felted. E. S. Sheperd. 1,782,215; Nov. 18.
Fibrous board, Process and apparatus for producing felted. E. S. Sheperd. 1,782,214; Nov. 18.
Film-sprocket structure. A. F. Victor. 1,781,937; Nov. 18.
Filter. G. F. Thomas and O. J. Herb. 1,781,964; Nov. 18.
Filtering device for heating apparatus, Air-. J. A. Walls. 1,782,374; Nov. 18.
Fire extinguisher. F. T. Wilcox. 1,782,083; Nov. 18.
Fire-extinguishing foam, Method of and apparatus for producing. W. Palmer. 1,782,366; Nov. 18.
Fire-extinguishing systems, Release mechanism for. D. Mapes. 1,781,854; Nov. 18.
Fishhook spreader and making the same. H. W. Meyer. 1,782,010; Nov. 18.
Fishing lure. J. E. Jensen. 1,782,204; Nov. 18.
Flare. L. L. Driggs, jr., and H. B. Faber. 1,782,292; Nov. 18.
Flash light. W. B. Sachs. 1,782,015; Nov. 18.
Flashing. M. J. N. Schneider. 1,782,246; Nov. 18.
Flatiron. W. H. Hawkes. 1,782,039; Nov. 18.
Fluid-level reducer for oil wells. H. J. Smith. 1,781,824; Nov. 18.
Fluid meter. C. H. Bergquist and R. Battle. 1,781,744; Nov. 18.
Flying machine. S. C. Anker-Holth. 1,781,910; Nov. 18.
Folding machine. G. Spiess. 1,781,768; Nov. 18.
Food package and making the same, Ornamental. A. Grande. 1,782,232; Nov. 18.
Frame: *See*—
Bedcover frame.
Hive frame.
Frame for traversing hoists. G. A. Grab. 1,781,754; Nov. 18.
Fruit-picking bag. P. V. Kinney. 1,782,355; Nov. 18.
Fuel heating, Liquid-. M. A. Powers. 1,782,050; Nov. 18.
Fuel, Making motor. B. Fixman. 1,781,872; Nov. 18.
Furnace: *See*—
Electric melting furnace.
Furnace adapted for hardening by nitrogenization, Electric resistance. A. Fry. Re17,874; Nov. 18.
Furnace attachment. H. F. Eastwood. 1,781,811; Nov. 18.
Furniture, Sheet-metal. L. Conrad. 1,781,718; Nov. 18.
Furniture shoe. F. Jantzen. 1,781,951; Nov. 18.
Fuse and switch, Combined electric. J. R. Tate. 1,781,990; Nov. 18.
Fuse box. W. D. Kyle. 1,781,876; Nov. 18.
Fuse plug, Multiple-screw. W. J. Luse. 1,781,786; Nov. 18.
Gambrel. K. Wichtendahl. 1,782,082; Nov. 18.
Game. M. Breidenbach. 1,782,254; Nov. 18.
Game accessory, Bridge-. L. R. Ladd. 1,781,850; Nov. 18.
Games and amusement device. M. B. Bradt. 1,781,717; Nov. 18.
Garage-ramp system. H. L. Smith, jr. 1,782,369; Nov. 18.
Garden shears. H. W. Clark. 1,782,029; Nov. 18.
Garment, Double-breasted. C. G. Longnecker. Des. 82,570; Nov. 18.
Garment hanger. H. L. Stover. 1,781,991; Nov. 18.
Garment or ironing press. E. J. Schramp and P. N. Braun. 1,782,101; Nov. 18.
Gas analysis, Method of and apparatus for. H. H. Dow. 1,782,032; Nov. 18.
Gas and coke, Method of and apparatus for generating combustible. H. F. Smith. 1,781,766; Nov. 18.
Gas burner. H. E. Kerr. 1,781,784; Nov. 18.
Gas mixtures, Liquefying and separating. K. E. R. Mewes. 1,781,693; Nov. 18.
Gas-pressure means for releasing connections. S. E. Allen and O. N. Wiswell. 1,782,022; Nov. 18.
Gas producer. H. F. Smith. 1,781,767; Nov. 18.
Gas-separation process. G. Claude. 1,782,287; Nov. 18.
Gasket. C. B. Bailey. 1,782,087; Nov. 18.
Gasket, Packing. J. Rimmelspacher. 1,782,014; Nov. 18.
Gauge: *See*—
Lamp gauge.
Oil gauge.
Pressure gauge.
Retard gauge.
Gauge. H. W. Crowell. 1,782,002; Nov. 18.
Gauge and positioning or leveling attachment, Bit. M. Betancourt. 1,782,284; Nov. 18.
Gear-changing mechanism, Torque-controlled. F. W. Mayer. 1,781,761; Nov. 18.
Gear for starting internal-combustion engines, Electrical turning. F. H. Royce. 1,782,318; Nov. 18.
Generator: *See*—
Steam generator.
Generator or producer. E. Schumacher. 1,781,765; Nov. 18.
Glass, Preventing the weathering (especially clouding, tarnishing, and lustering) of the surface of. K. Kamita. 1,782,169; Nov. 18.
Golf tee. L. Dunkelsberg. 1,781,684; Nov. 18.
Golf tee. A. D. Holden. 1,781,757; Nov. 18.
Gramophone, megaphone, or the like. A. H. Borgqvist. 1,781,974; Nov. 18.
Grinder. Automatic planer-knife. W. H. Ashworth. 1,781,674; Nov. 18.
Grinder for pigments and the like. E. de Rozieres. 1,781,808; Nov. 18.
Grinder, Saw. E. P. Armstrong. 1,781,941; Nov. 18.
Grinding apparatus. C. C. Gibson. 1,782,063; Nov. 18.
Grinding or cutting apparatus. L. H. Thullen. 1,782,128; Nov. 18.
Gripping device. O. O. Collins. 1,782,030; Nov. 18.
Gun, Synchronized machine. O. A. Ross. 1,782,148; Nov. 18.
Gyrocompass reversing contact. C. B. Mills. 1,782,048; Nov. 18.
Gyroscopic indicating instrument. S. G. Brown. 1,781,746; Nov. 18.
Hair drier. O. Norden. 1,781,879; Nov. 18.
Hame hook. L. B. Bray. 1,781,975; Nov. 18.
Hammer crusher. G. W. Borton. 1,781,891; Nov. 18.
Hammer mill. C. A. Jamison. 1,781,904; Nov. 18.
Handle or similar article, Knife. W. J. Matt. Des. 82,573–4; Nov. 18.
Hanger: *See*—
Garment hanger.
Harvester, Beet. L. W. Eversman. 1,781,919; Nov. 18.
Harvester, Beet. O. M. McGuire. 1,781,952; Nov. 18.
Harvester, Broomcorn. A. Smith. 1,781,961; Nov. 18.
Harvesting machine. E. Friis-Hansen. 1,782,261; Nov. 18.
Hay loader. V. Bal. 1,782,227; Nov. 18.
Head for puncturing closure disks. S. E. Allen and O. N. Wiswell. 1,782,020; Nov. 18.
Headlight for automobiles, Oscillating. H. Cragg. 1,782,290; Nov. 18.
Head number for horses. P. E. Callen. 1,782,193; Nov. 18.
Heat-conducting means for steam generators or fluid heaters. P. M. Lattner. 1,782,171; Nov. 18.
Heat-exchange apparatus. F. Batter. 1,781,913; Nov. 18.
Heat-insulating material and process of manufacture. H. W. Greider. 1,782,383; Nov. 18.
Heat plastic composition. H. Gray. 1,782,036; Nov. 18.
Heater: *See*—
Automobile heater.
Oil heater.
Roll heater.
Space heater.
Vehicle heater.
Water heater.
Heating apparatus for liquids, Electric. H. H. Henning. 1,782,069; Nov. 18.
Heating apparatus, Sectional liquid. W. A. Cross. 1,781,915; Nov. 18.
Heating means for sheet-glass apparatus. J. L. Drake. 1,781,917; Nov. 18.
Heating pad. H. H. Wanders. 1,781,741; Nov. 18.
Heel for footwear. W. A. Owen. 1,781,931; Nov. 18.
Heels, Attachment of top lifts to wood. D. J. Sullivan. 1,781,907; Nov. 18.
Heels, Lift for separately-formed attachable. S. C. Kayes. 1,781,847; Nov. 18.
Hides and leather, Mechanism for stretching and drying. E. G. Lowe. 1,782,097; Nov. 18.
Hive frame. G. G. Frater. 1,782,202; Nov. 18.
Hoisting machine. G. W. Payne. 1,781,700; Nov. 18.
Holder and match box, Combined cigarette-package. S. A. Kornsweet. 1,782,145; Nov. 18.
Holder, Cartridge. J. B. Jovino. 1,781,816; Nov. 18.
Holder, Coin. E. A. Rulfs. Des. 82,586; Nov. 18.
Holder, Combined brush and hat. C. V. Pohlson. 1,781,822; Nov. 18.
Holder, Electrode. P. L. Orr. 1,781,930; Nov. 18.
Holder, Flag. R. H. Lazarus. 1,782,070; Nov. 18.
Holder for paper slips. R. S. Young. 1,782,185; Nov. 18.
Holder, Hat. J. C. Harvey. 1,782,302; Nov. 18.
Holder, Lip-stick. A. S. Lyhne. 1,781,852; Nov. 18.
Holder, Lip-stick. G. W. Nelson and A. F. Ceres, jr. 1,782,365; Nov. 18.
Holder, Message. A. M. Fisher. 1,781,752; Nov. 18.
Holder, Negative. J. W. Hazell. 1,782,068; Nov. 18.
Holder, Pad. J. B. Kemp. 1,781,782–3; Nov. 18.
Holder, Sash. S. Barnes. 1,781,912; Nov. 18.

Holder, Shade. C. J. Austin. 1,782,159; Nov. 18.
Holder, Sleeve. J. C. Bollinger. 1,782,057; Nov. 18.
Holder, Window. C. J. Christopherson. 1,781,870; Nov. 18.
Holder, Window-shade. A. F. Lamoureux and P. Sellas. 1,782,357; Nov. 18.
Hollow bodies, Shaping. H. E. Fox. 1,781,723; Nov. 18.
Hook: *See*—
Boot hook. Snap hook.
Hame hook.
Hull of water craft. H. Scott-Paine. 1,782,320; Nov. 18.
Humidifier. M. De Graaf. 1,782,197; Nov. 18.
Hydrant. E. D. Rattigan. 1,782,012; Nov. 18.
Hydraulic press, High-pressure. J. C. Solberg, F. C. Langenberg, and E. M. Sawtelle. 1,782,103; Nov. 18.
Hydrocarbons, Cracking. J. E. Bell and E. W. Isom. 1,782,056; Nov. 18.
Hydrocarbons, Cracking. H. K. Rogers. 1,781,884; Nov. 18.
Hydrocarbons, Treating. D. L. Thomas. 1,781,826; Nov. 18.
Hydrogen peroxide, Making. J. B. Pierce, jr. 1,781,859; Nov. 18.
Hydrogen, Production of. F. T. Snyder. 1,781,935; Nov. 18.
Ice-shaving device. A. O. Goldstein. 1,782,296; Nov. 18.
Indicator: *See*—
Bridge warning indicator. Liquid-level indicator.
Direction indicator. Temperature indicator.
Insecticide production. A. Hartzell. 1,781,841; Nov. 18.
Insole and making same. S. R. Blakely. 1,781,715; Nov. 18.
Insulating material in the form of strips to electric conductors, Application of. P. Dunsheath. 1,782,381; Nov. 18.
Intermixed materials, Process and mechanism for separating. K. Davis. 1,782,391–2; Nov. 18.
Internal-combustion engine. B. B. Bachman and L. S. Clarke. 1,782,187; Nov. 18.
Internal-combustion engine. E. C. Newcomb and D. G. Roos. 1,781,696; Nov. 18.
Internal-combustion engine. R. A. Reynolds. 1,781,704; Nov. 18.
Irrigating apparatus. H. H. Enell. 1,781,751; Nov. 18.
Jack switch. J. A. Stirling. 1,781,962; Nov. 18.
Jacks, Adjustable base for automobile. A. F. Poehls. 1,782,313; Nov. 18.
Joint. J. T. Kelly. 1,781,848; Nov. 18.
Joint for pipe couplings, Universal. O. P. Erickson. 1,782,062; Nov. 18.
Joist bearing plate and anchor. J. G. Shodron. 1,782,216; Nov. 18.
Journal box. D. S. Barrows. 1,782,055; Nov. 18.
Kettle, Water. E. C. Lawson. Des. 82,567; Nov. 18.
Keyless lock. J. Recker. 1,782,212; Nov. 18.
Kiln, Rotary cement-burning. A. V. Jensen. 1,781,845; Nov. 18.
Knitting machine. J. L. Le Gorre. 1,782,007; Nov. 18.
Knitting machine, Circular-. J. H. G. Bayles. 1,782,161; Nov. 18.
Knitting machine, Circular-. T. S. Grieve. 1,782,298; Nov. 18.
Knitting machines, Yarn-feeding means for circular-. T. S. Grieve. 1,782,299; Nov. 18.
Knob, Pull. C. H. and G. J. Overmyer. Des. 82,579; Nov. 18.
Label, Box. A. Isaacson. 1,781,980; Nov. 18.
Lace. G. M. Dicken. Des. 82,543; Nov. 18.
Lamp. S. Perla. Des. 82,584; Nov. 18.
Lamp gauge. O. Schnaser. 1,781,862; Nov. 18.
Lamp or article of analogous nature. M. Kiwad. Des. 82,563–5; Nov. 18.
Lamp or similar article. M. Kiwad. Des. 82,562; Nov. 18.
Lamp, Vehicle. J. F. Aniol. 1,781,865; Nov. 18.
Lamps and holders, Infra-red element for therapeutic. E. Suter and J. Neutzi. 1,782,218; Nov. 18.
Latch, Cabinet. R. G. Moore and A. Claud-Mantle. 1,782,386; Nov. 18.
Latch, Door. F. A. Cox. 1,782,289; Nov. 18.
Latch handle. F. C. Ruppel. Des. 82,595; Nov. 18.
Lathe center. L. R. Power. 1,782,272; Nov. 18.
Lathe, Continuously-operating multiple. F. M. Davis and A. C. Hoeh. 1,782,138; Nov. 18.
Laundry apparatus. A. W. Altorfer. 1,782,224; Nov. 18.
Laundry apparatus. B. E. Getz. 1,781,921; Nov. 18.
Lens attachment for eyes. B. L. Wilhelm. 1,782,331; Nov. 18.
Light: *See*—
Flash light.
Light and signal, Combined. O. R. Aurand. 1,782,334; Nov. 18.
Light-sensitive layer and making photographic images. J. Eggert, R. Schmidt, and B. Wendt. 1,782,259; Nov. 18.
Lighter, Cigar and cigarette. L. D. Bell and J. C. Rombach. 1,782,025; Nov. 18.
Lighting device, Electric-. A. Sadacca. 1,781,885; Nov. 18.
Lighting fixture or article of similar nature. H. Bohl. Des. 82,539; Nov. 18.
Liner, Adjustable. W. H. Johnston. 1,781,846; Nov. 18.
Liquid-level indicator. T. M. Eynon. 1,782,233; Nov. 18.
Liquid purifier, Centrifugal. J. W. Adams. 1,781,676; Nov. 18.
Liquid-seal trap, Antisiphonic. J. McDermid. 1,781,683; Nov. 18.
Liquid-whipping apparatus. W. Jensen. 1,782,095; Nov. 18.
Liquors, Treating ammoniacal. D. R. Means. 1,781,987; Nov. 18.
Loading device, Automatic. F. Hamrol. 1,781,873; Nov. 18.
Lock: *See*—
Cylinder lock. Warp-beam lock.
Keyless lock.
Lock device. S. J. Goodwin. 1,781,813; Nov. 18.
Lock for reflectors, Lens-holding. R. E. Major. 1,781,729; Nov. 18.
Lock washer. C. G. Olson. 1,782,387; Nov. 18.
Locking device. A. Thomas and F. E. Hallahan. 1,782,080; Nov. 18.
Locomotives, Steam pipe for. H. K. Harwick. 1,782,346; Nov. 18.
Logging system. D. Lawson. 1,782,043; Nov. 18.
Logs, Process and apparatus for barking. O. A. Bartholomew. 1,781,942; Nov. 18.
Looms, Attachment for. R. Pormann. 1,782,099; Nov. 18.
Loop retainer and mechanism therefor. L. N. D. Williams and H. Swinglehurst, jr. 1,782,375; Nov. 18.
Lubricating device. W. H. Cotton. 1,782,135; Nov. 18.
Lubricating rings and travelers in doubling and like frames. W. Whiteley. 1,781,828; Nov. 18.
Lubricating system. E. W. Davis. 1,781,948; Nov. 18.
Machine and process for cracking nuts. W. E. Giesecke. 1,781,838; Nov. 18.
Machine for cleaning the matrices for type setting and casting machines. K. Christel. 1,781,946; Nov. 18.
Machine for grinding mower elements. R. A. Thomas. 1,782,154; Nov. 18.
Machine for handling loose materials. K. Davis. 1,781,978; Nov. 18.
Machine for knotting warps. U. Bischof. 1,782,162; Nov. 18.
Machine for making wire strands, ropes, and cables. E. A. Conner. 1,781,894; Nov. 18.
Machine for removing flags and other adhering leaf from the stalks of tobacco leaves. M. G. P. Phillips. 1,781,701; Nov. 18.
Machine for use in assembling hose-coupling parts and the like. A. L. Wallace. 1,782,219; Nov. 18.
Magnetic separator. J. Bing. 1,781,998; Nov. 18.
Manifolding. E. R. Gill, jr. 1,781,902; Nov. 18.
Manifolding device. W. A. Pringle and L. F. Hagemann. 1,782,388; Nov. 18.
Manure spreader. H. Synck. 1,782,053; Nov. 18.
Massaging device. J. Grison. 1,782,005; Nov. 18.
Match packet. R. S. Pullen. 1,782,074; Nov. 18.
Match-stock-cutting apparatus. S. M. Friede and F. J. McGuire. 1,781,900; Nov. 18.
Materials by means of gases, Method and apparatus for processing. B. F. Uhl. 1,782,054; Nov. 18.
Materials of different specific gravities, Separation of. T. M. Chance. Re17,873; Nov. 18.
Measuring-dispensing device for containers. M. Bastians. 1,781,968; Nov. 18.
Measuring or detecting device. W. J. Stallan. 1,782,151; Nov. 18.
Measuring the vital capacity of the lungs, Apparatus for. R. W. Scott. 1,781,735; Nov. 18.
Meat-mincing and sausage-meat-making machine. F. H. Wright and E. W. Lewis. 1,782,084; Nov. 18.
Mercury compound of meta cresol. D. M. Copley and J. P. Snyder. 1,782,090; Nov. 18.
Meter: *See*—
Fluid meter.
Methyleneamino compounds and preparing the same, Aromatic. M. Kahn, W. Schepss, and L. Zeh. 1,781,982; Nov. 18.
Mill: *See*—
Hammer mill. Rolling mill.
Mining machine. L. A. Maxson. 1,781,906; Nov. 18.
Mirror, Rear-view. C. Bittinger. 1,781,999; Nov. 18.
Mixer: *See*—
Concrete mixer.
Mixing apparatus. G. H. Haines. Re17,875; Nov. 18.
Molding for metal frames. I. A. Baum. 1,781,773; Nov. 18.
Molding machine. A. W. Sizer. 1,782,322; Nov. 18.
Molding press, String. K. Handle. 1,782,301; Nov. 18.
Motor: *See*—
Electric motor.
Motor-control apparatus. B. E. O'Hagan. 1,781,880; Nov. 18.
Motor controller. T. H. Rodman. 1,781,792; Nov. 18.
Motors, Variable-speed control for electric. E. J. Murphy. 1,781,762; Nov. 18.
Mounting elements with plaster ears, Making. B. C. Webster. 1,782,320; Nov. 18.
Nozzle, Grease. G. W. Cooke. 1,781,681; Nov. 18.
Nut-cracking machines and the like, Feeding mechanism for. L. J. Meyer. 1,782,124; Nov. 18.
Nut fastening, Shiftable. F. S. Carr. Re17,870; Nov. 18.
Nut or collar, Threadless. H. Dalton. 1,782,196; Nov. 18.
Oil gauge. T. A. Hodges and E. Elrod. 1,781,756; Nov. 18.
Oil heater, Crank-case-. T. P. Hannegan. 1,781,840; Nov. 18.

Oiler, Wheel-flange. J. S. Childs. 1,782,133; Nov. 18.
Oiling mechanism, Lathe-. W. F. Groene. 1,781,755; Nov. 18.
Oils, Converting high-boiling hydrocarbon. E. E. Bartels. 1,782,160; Nov. 18.
Oils, Process and apparatus for dewaxing. E. F. Burch. 1,782,028; Nov. 18.
Ophthalmic mounting. G. F. Marciano. 1,781,760; Nov. 18.
Ore-concentrating table. F. C. Dyer. 1,781,810; Nov. 18.
Ornament or similar article, Shoe. E. T. Dugan. Des. 82,546; Nov. 18.
Ornamenting device and making the same. J. Hazman. 1,781,687; Nov. 18.
Oven, Briquet. T. Nagel. 1,782,244; Nov. 18.
Package sealer. T. H. Krueger. 1,782,123; Nov. 18.
Packing. B. P. Joyce. 1,781,926; Nov. 18.
Packing for piston rods and valve stems. S. B. Dunham. 1,782,258; Nov. 18.
Packing material and product, Making. H. R. Williams. 1,781,797; Nov. 18.
Pad: *See*—
Heating pad.
Paper, Apparatus for printing negotiable. C. G. Tiefel and W. B. Payne. 1,781,739; Nov. 18.
Paper-coating composition. D. B. Bradner and C. H. Milligan. 1,781,716; Nov. 18.
Paper from plant fiber, Manufacture of. H. Eggers. 1,782,382; Nov. 18.
Paper-making machine. H. Liebeck. 1,781,928; Nov. 18.
Paper-making machines, Cylinder mold of. T. Yonekura. 1,782,281; Nov. 18.
Paper-making machines, Spear pole for removing paper from the rollers of. R. B. Hull. 1,782,349; Nov. 18.
Paper, Wrapping. D. B. Clement. Des. 82,542; Nov. 18.
Parking system, Automobile. B. M. Flannery. 1,781,753; Nov. 18.
Perforating device. W. W. McCain. 1,781,819; Nov. 18.
Phonograph. R. Brenchley. 1,781,679; Nov. 18.
Pianos, Expression device for automatic. J. H. Dickinson. 1,782,061; Nov. 18.
Picture apparatus, Talking-. F. H. Owens. Re17,876; Nov. 18.
Picture machine, Talking-. T. W. Case. 1,781,945; Nov. 18.
Piezo-electric resonators for the excitation of various overtones, Mounting. W. G. Cady. 1,782,117; Nov. 18.
Pin stem. R. T. Stafford. 1,781,737; Nov. 18.
Pinch waver. A. and J. Goodman. 1,781,812; Nov. 18.
Pipe: *See*—
Concrete pipe. Soil pipe.
Pipe fitting, Waste-. W. H. Darling. 1,781,719; Nov. 18.
Pipe-pulling machine. C. R. Edwards. 1,781,918; Nov. 18.
Pistons, Apparatus for resizing. F. H. Sharp. 1,782,077; Nov. 18.
Pitcher or the like. C. Weiss. Des. 82,545; Nov. 18.
Plant for the generation of high-pressure steam. F. Flatt. 1,781,836; Nov. 18.
Plant thinner. E. J. Antoni. 1,781,743; Nov. 18.
Plate or the like. F. J. Peters. Des. 82,581; Nov. 18.
Plate spring. E. Burnand. 1,782,286; Nov. 18.
Platen-press chase, Adjustable. G. A. Dickey and E. B. Groff. 1,781,979; Nov. 18.
Platform, Portable. A. L. Lewis. 1,782,146; Nov. 18.
Play pen. B. M. Stoddard. 1,782,217; Nov. 18.
Plug and receptacle, Attachment. G. W. Goodridge. 1,782,297; Nov. 18.
Plug, Automatic. N. C. Schellenger. 1,781,958; Nov. 18.
Pocketbook, Combination. B. Epstein. 1,782,003; Nov. 18.
Pontic for bridgework. B. Fischler. 1,781,899; Nov. 18.
Porous material and the manufacturing process thereof. H. W. Greider. 1,782,384; Nov. 18.
Post: *See*—
Collapsible post.
Potato-setting machine. J. F. Ljungdahl. 1,781,986; Nov. 18.
Pottery kick-out element. I. F. Dains. 1,781,947; Nov. 18.
Power apparatus. R. R. Smith. 1,782,277; Nov. 18.
Press: *See*—
Garment or ironing press. Molding press.
Hydraulic press.
Press. O. Riemann. 1,782,273; Nov. 18.
Pressing element for pressing machines. E. Davis. 1,782,137; Nov. 18.
Pressure gauge. C. T. Mason. 1,781,818; Nov. 18.
Priming device. S. Wiltse. 1,781,890; Nov. 18.
Projectile for signaling or illuminating purposes. L. L. Driggs, jr., and H. B. Faber. 1,782,291; Nov. 18.
Projecting apparatus. R. Cluff. 1,782,288; Nov. 18.
Propeller, Aeronautical. S. A. Reed. 1,781,883; Nov. 18.
Propeller, Variable-pitch. C. K. Greene. 1,782,167; Nov. 18.
Protective device for electric circuits. H. W. Baumer. 1,782,089; Nov. 18.
Pull handle. C. H. and G. J. Overmyer. Des. 82,580; Nov. 18.
Puller: *See*—
Wheel puller.
Pulley carrier for guy lines. S. W. Hillier. 1,782,348; Nov. 18.
Pulp material, Wood-. J. H. Wallace. 1,781,712; Nov. 18.
Pulverizer, Roller. R. E. Dunham. 1,782,201; Nov. 18.
Pump. F. H. Jensen. 1,782,144; Nov. 18.
Pump, Compressor. E. L. Barnes. 1,782,188; Nov. 18.
Pump, Liquid. H. Beyer. 1,782,252; Nov. 18.
Pump of the oscillating-blade type, Rotary. L. I. Poirmeur. 1,782,314; Nov. 18.
Pump, Oil. A. Bizzarri. 1,781,803; Nov. 18.
Pump outflow-regulating device. E. Piquerez. 1,782,073; Nov. 18.
Pump-priming system, Centrifugal. O. Haentjens. 1,782,345; Nov. 18.
Pump, Rotary. A. Bargeboer. 1,782,282; Nov. 18.
Pumping apparatus, Well-. J. T. Overstreet. 1,782,310; Nov. 18.
Rack. W. G. Brown. 1,781,976; Nov. 18.
Radiating device for the cooling of spark plugs, Removable-. J. Franquet and N. Dziacos. 1,782,260; Nov. 18.
Radiator. H. A. Higgins. 1,781,781; Nov. 18.
Radiator-cap construction. R. Miller. 1,781,878; Nov. 18.
Radiator cap or similar article for an automotive vehicle. W. Schnell. 82,588; Nov. 18.
Radiator tank. W. G. Campbell. 1,782,058; Nov. 18.
Radiator trap. A. R. Schoultz. 1,782,319; Nov. 18.
Radiocabinet. M. Pasternak. 82,583; Nov. 18.
Radio frequency transformer. F. L. Capps. 1,781,776; Nov. 18.
Radio log. A. R. Gwynn. 1,782,065; Nov. 18.
Radio recepton apparatus. M. J. Rittenhouse and O. V. Maurer. 1,781,861; Nov. 18.
Radio tuning mechanism. C. Schelbel. 1,782,368; Nov. 18.
Rail. G. R. Douglas. 1,782,031; Nov. 18.
Rail fitting. W. Shanks and W. B. Cater. 1,782,017; Nov. 18.
Rail tie. L. Szepsy and I. Windisch. 1,782,153; Nov. 18.
Railroad crossing. M. G. Stoller. 1,782,182; Nov. 18.
Rake-cleaning attachment, Hand-. R. G. Roth. 1,781,734; Nov. 18.
Razor-conditioning device, Magnetic. J. S. Forbes. 1,782,033; Nov. 18.
Reaping machine. E. E. C. Serre. 1,782,321; Nov. 18.
Receptacle. J. H. Willson. 1,781,909; Nov. 18.
Reciprocating engine. H. J. Alderson. 1,781,831; Nov. 18.
Reel for fishing rods and the like. L. Mitchell-Henry. 1,781,695; Nov. 18.
Refractory structure. F. L. Arensberg and A. J. Jackman. 1,782,023; Nov. 18.
Refractory structure. A. F. Hall. 1,781,780; Nov. 18.
Refrigerating apparatus. E. L. Barnes. 1,782,189; Nov. 18.
Refrigerating unit of fired ceramic material. L. G. Copeman. 1,781,778; Nov. 18.
Refrigeration. C. C. Spreen. 1,782,105; Nov. 18.
Refrigerator. H. E. Larsen. 1,781,758; Nov. 18.
Refrigerator. A. V. Pankey. Re17,872; Nov. 18.
Relay. M. Schleicher and P. Carlo. 1,782,100; Nov. 18.
Resistance box. E. Bandoly. 1,781,802; Nov. 18.
Retard gauge. O. W. Heise. 1,781,814; Nov. 18.
Rheostat. N. C. Schellenger. 1,781,959; Nov. 18.
Rhythmic chart for child orchestration. M. E. Mayberry and E. A. Hill. 1,782,046; Nov. 18.
Rim for dome lights or the like. G. Graff. Des. 82,553; Nov. 18.
Ring. A. F. Di Cristina. Des. 82,544; Nov. 18.
Ring. A. J. Friedman. Des. 82,549; Nov. 18.
Road graders, Lifting attachment for. A. J. and G. W. Monroe. 1,782,363; Nov. 18.
Roll heater. J. D. Williams. 1,781,798; Nov. 18.
Roller bracket, Shade-. E. Broberg. 1,782,131–2; Nov. 18.
Rolling mill. W. F. Detwiler. 1,781,809; Nov. 18.
Roof tank, Water. J. F. Patterson. 1,782,174; Nov. 18.
Roofing elements, Method of and mechanism for coating. H. L. Levin. 1,781,877; Nov. 18.
Roundabout. D. J. Lahay. 1,782,207; Nov. 18.
Rubber derivative and making same. H. L. Fisher and H. A. Winkelmann. 1,782,140; Nov. 18.
Running board. H. J. Earl. Des. 82,547; Nov. 18.
Sack, Cotton-picking. W. R. Keene. 1,782,354; Nov. 18.
Safety equipment for aircraft. D. G. Coplen. 1,782,134; Nov. 18.
Salt and pepper shaker or similar article. J. W. Jennings. Des. 82,559; Nov. 18.
Salts into globular or similar shaped bodies, Conversion of. B. Haak. 1,782,038; Nov. 18.
Scaffolding, Adjustable. H. Ball. 1,781,911; Nov. 18.
Scale, Hydraulic. G. W. Calvert. 1,782,255; Nov. 18.
Scale, Weighing. L. A. Osgood. 1,782,125; Nov. 18.
Scales, Weight-printing mechanism for. H. E. Spencer. 1,781,793; Nov. 18.
Scraper, Wheel. F. T. Zerwig. 1,782,085; Nov. 18.
Screen: *See*—
Door or window screen.
Screen. W. Hanley. 1,782,203; Nov. 18.
Screening, sorting, and handling material, Apparatus for. B. W. Pape. 1,781,857; Nov. 18.
Screw-type head for puncturing closures, Gas-operated. S. E. Allen and O. N. Wiswell. 1,782,021; Nov. 18.
Seal, Smoke-arch. W. F. Kiesel, jr. 1,781,849; Nov. 18.
Sealing mechanism for metal windows. H. E. Campbell. 1,782,338; Nov. 18.
Seat. J. W. Cross and E. E. Johnson. 1,782,231; Nov. 18.
Seat construction. W. S. Mendenhall. 1,782,270; Nov. 18.

Securing means. I. D. Ford. 1,782,164–6; Nov. 18.
Separator: *See*—
Magnetic separator.
Separator. W. M. McKenzie. 1,781,790; Nov. 18.
Shackle, Spring. T. L. Fawick. 1,782,091; Nov. 18.
Shade and screen for doors, windows, and the like. A. Campobasso. 1,782,339; Nov. 18.
Shaft coupling. K. Tessky. 1,782,324; Nov. 18.
Shaft inclosure. P. H. Frank. 1,781,685; Nov. 18.
Sharpening device. E. A. Baltzell. 1,781,967; Nov. 18.
Shears: *See*—
Garden shears.
Shears. A. R. McArthur. 1,782,362; Nov. 18.
Sheet material, Method and apparatus for making inlaid. M. C. Teague. 1,782,107; Nov. 18.
Shellac composition. R. E. Sumner. 1,781,711; Nov. 18.
Shelving, Knockdown. P. Dean. 1,782,119; Nov. 18.
Shock absorber. W. J. Albersheim and H. S. Konheim. 1,782,113; Nov. 18.
Shock absorber. L. W. Greve. 1,782,141; Nov. 18.
Shoe counter. C. Miller. 1,781,953; Nov. 18.
Shoe-lace knotter. D. H. Hardy. 1,782,066; Nov. 18.
Shoe, Waterproof. A. Csont. 1,782,136; Nov. 18.
Shoes, Tongue for. M. Hilgert. 1,781,950; Nov. 18.
Siding clamp. F. B. Cummer. 1,781,833; Nov. 18.
Sign and the like, Advertising. E. W. Knechtel. 1,781,727; Nov. 18.
Sign, Illuminated. G. H. Barnes. 1,781,677; Nov. 18.
Sign, Illuminated. J. D. Pearmain. 1,782,175; Nov. 18.
Sign reflector. E. Simpson. 1,782,181; Nov. 18.
Signal: *See*—
Crossing signal.
Signal device. J. W. Klein. 1,781,927; Nov. 18.
Signal for automobiles, Direction. J. F. Lynch. 1,781,853; Nov. 18.
Skate. S. J. Stiver. 1,782,078; Nov. 18.
Slug-casting machine. J. A. McGinnis. 1,782,047; Nov. 18.
Snap hook. W. R. Cooper and H. Quick. 1,782,379; Nov. 18.
Snubber. R. B. Fageol. 1,781,898; Nov. 18.
Soap, Device for pressing. H. T. Safford. 1,782,076; Nov. 18.
Socket, Tube. N. C. Schellenger. 1,781,957; Nov. 18.
Soil pipe. J. J. Crotty. 1,781,982; Nov. 18.
Sounding device. D. G. Dedrick. 1,782,139; Nov. 18.
Space heater. A. W. Becker. 1,782,229; Nov. 18.
Speed indicator and variable synchronizer. R. H. Bahney. 1,781,866; Nov. 18.
Speed mechanism, Variable-. J. V. Crichton. 1,782,001; Nov. 18.
Spool or bobbin. L. C. Baldwin. 1,781,801; Nov. 18.
Spoon. E. M. Bolton. 1,781,973; Nov. 18.
Spraying device, Liquid-. K. Ludwig. 1,782,309; Nov. 18.
Spring: *See*—
Plate spring.
Spring arrangement. P. Füsgen and W. Kost. 1,781,724; Nov. 18.
Stand: *See*—
Desk stand. Display stand.
Stand and holder for fountain pens, Desk. J. C. Wahl. 1,782,108; Nov. 18.
Starting device for motor driven machines. A. E. Jerram. 1,782,304; Nov. 18.
Steam-generating apparatus. E. Wanamaker and L. C. Bowes. 1,782,220; Nov. 18.
Steam generator, Indirectly-heated. H. Peperkorn. 1,781,764; Nov. 18.
Steam injector, Exhaust-. N. T. McKee. 1,782,009; Nov. 18.
Steering mechanism. D. G. Roos. 1,781,705; Nov. 18.
Steering mechanism for vehicles. O. Haase. 1,782,265; Nov. 18.
Stencil sheet. L. F. D'Autremont. 1,781,834; Nov. 18.
Stock waterer. F. M. Hupp. 1,782,350; Nov. 18.
Stock waterer. J. Ruskamp. 1,782,075; Nov. 18.
Stop, Draft and noise. C. F. Wyatt. 1,781,864; Nov. 18.
Stop for extruding machines, Automatic. F. J. Lynch. 1,782,360; Nov. 18.
Storage tank, Air-. E. A. Pennington. 1,782,271; Nov. 18.
Stove, Portable hydrocarbon. W. C. Lindemann. 1,782,008; Nov. 18.
Strainer, Oil. R. C. Hopkins. 1,781,874; Nov. 18.
Straining attachment for pans and kettles. R. W. Alexander. 1,781,995; Nov. 18.
Stropper, Razor. R. H. Ingersoll. 1,782,352; Nov. 18.
Stropper, Razor-blade. R. H. Ingersoll. 1,782,351; Nov. 18.
Sugar drier. D. K. Richards. 1,782,177; Nov. 18.
Sulphur from iron pyrites, Recovery of. R. F. Bacon. 1,782,226; Nov. 18.
Sulphur from pyrites, Recovery of. R. F. Bacon. 1,782,225; Nov. 18.
Sundial. G. Ancira. 1,782,114; Nov. 18.
Superheater boiler. W. F. Keenan, jr., and H. F. Eddy. 1,782,096; Nov. 18.
Support, Bust. P. Werner. 1,782,279; Nov. 18.
Support, Seat. L. B. Marvin. 1,782,241; Nov. 18.
Support, Shoe-shank. S. Richmond. 1,782,178; Nov. 18.
Support, Table-leaf. F. L. Casper. 1,782,059; Nov. 18.
Suture. W. F. Rolston. 1,781,933; Nov. 18.
Switch: *See*—
Control switch. Jack switch.
Electric switch.
Switch. W. O. Benjafield. 1,781,970; Nov. 18.
Switch box, Meter-entrance. S. Hammer. 1,781,686; Nov. 18.
Table: *See*—
Ore-concentrating table.
Table for automobiles, Collapsible. L. H. Cummings. 1,781,977; Nov. 18.
Tag-making machine. S. E. Allen. 1,782,086; Nov. 18.
Tank: *See*—
Radiator tank. Storage tank.
Roof tank.
Tap. J. M. Le Grand. 1,781,985; Nov. 18.
Tape, Bias insulating. H. I. Diamond. 1,781,896; Nov. 18.
Teeth, Bicuspid and molar bridge. R. W. Beck. 1,782,251; Nov. 18.
Telegraphy, Printing. E. E. Kleinschmidt. 1,781,905; Nov. 18.
Telephone-connecter take-up. J. E. Bolling. 1,782,191; Nov. 18.
Telephone substation equipment. J. A. Dickman. 1,781,916; Nov. 18.
Television apparatus and the like. J. L. Baird. 1,781,800; Nov. 18.
Temperature indicator, Mean-. M. Taylor. 1,782,106; Nov. 18.
Tensioning device for elastic threads. C. F. Kenyon. 1,781,817; Nov. 18.
Testing device. J. L. Theobald. 1,782,127; Nov. 18.
Tetra-alkylated thiuramdisulphides, Manufacturing. H. S. Adams and L. Meuser. 1,782,111; Nov. 18.
Textile fabric. F. W. Bader. Des. 82,537; Nov. 18.
Thermostat and similar control mechanism. M. Mason. 1,782,045; Nov. 18.
Throttle, Foot. P. A. Gianera. 1,782,035; Nov. 18.
Tie: *See*—
Rail tie.
Tie, tie piece goods, and method of making. N. J. Strauss. 1,782,183; Nov. 18.
Tile machine. B. R. Simmons. 1,782,051; Nov. 18.
Tiles, Apparatus for making. J. W. Thomas. 1,781,992; Nov. 18.
Timing indicator for internal-combustion engines. W. D. Havens. 1,782,142; Nov. 18.
Tongs, Hoisting. W. E. Tornquist. 1,782,326; Nov. 18.
Tongs, Pickling. R. C. Hopkins. 1,781,875; Nov. 18.
Tool, Cutting. W. W. Shoemaker. 1,781,863; Nov. 18.
Tool organization, Machine-. E. J. Kearney and J. B. Armitage. 1,782,235; Nov. 18.
Tool, Pneumatic cleaning. F. Luckensmeier. 1,782,308; Nov. 18.
Tool, Well. A. A. Helmecke. 1,781,903; Nov. 18.
Tooth, Artificial. A. E. Vongunten. 1,781,908; Nov. 18.
Torpedo-firing operations, Method and apparatus for. C. L. Florisson. 1,782,294; Nov. 18.
Toy airplane. W. Kramer. 1,782,385; Nov. 18.
Toy bird. V. V. Kunkel. 1,782,042; Nov. 18.
Toy, Mechanical. J. Bulkowski. 1,781,804; Nov. 18.
Toy railroads and the like, Automatic safety cut-out for. H. S. Becker. 1,781,969; Nov. 18.
Toy windmill. O. Scheibe. Des. 82,587; Nov. 18.
Traffic-controlling apparatus, Railway-. H. A. Thompson. 1,781,827; Nov. 18.
Traffic-controlling apparatus, Railway-. J. J. Vanhorn. 1,782,156; Nov. 18.
Train-counting apparatus. P. P. Stoker. 1,782,052; Nov. 18.
Transformer and electron-tube socket, Combined. J. W. Simmons. Re17,871; Nov. 18.
Transmission. W. W. Wells. 1,782,184; Nov. 18.
Transmission mechanism. D. C. Dobbins. 1,782,342–3; Nov. 18.
Transmission mechanism. J. A. Johnson. 1,781,925; Nov. 18.
Transmission, Straight-line. J. A. Johnson. 1,781,924; Nov. 18.
Transmitting signals. J. L. Baird. 1,781,799; Nov. 18.
Trap: *See*—
Animal trap. Radiator trap.
Liquid-seal trap.
Truck, Car. N. R. Brownyer. 1,782,192; Nov. 18.
Truck for railway rolling stock. R. F. Hall. 1,782,093; Nov. 18.
Typewriting machine. G. O. Degener. 1,781,720; Nov. 18.
Typewriting machine. G. F. Handley. 1,781,725; Nov. 18.
Undergarment for women. M. D. Neilson. 1,781,929; Nov. 18.
Upholstery in automobile bodies, Attaching. J. Ledwinks. 1,782,239; Nov. 18.
Utensil, Combination kitchen. J. G. Funk. 1,781,837; Nov. 18.
Vacuum inducing construction. A. Y. Dodge. 1,782,199; Nov. 18.
Valve. R. O. Kirchhan. 1,782,238; Nov. 18.
Valve. W. G. Wilson. 1,781,771; Nov. 18.
Valve, Flush. H. Wesson. 1,782,221–2; Nov. 18.
Valve for air brakes, Feed. C. A. Campbell. 1,781,747; Nov. 18.
Valve for rock drills. W. A. Smith, jr. 1,782,102; Nov. 18.
Valve for steam hydraulic systems, Overflow. W. H. Ridgway. 1,782,367; Nov. 18.
Valve for vacuum-cleaner dust bags. R. E. Gray. 1,782,064; Nov. 18.
Valve-inserting method and mechanism. D. F. O'Brien. 1,781,698; Nov. 18.

Valve, Lubricated plug. S. J. Nordstrom. 1,781,821; Nov. 18.
Valve, Oscillating. J. Gamache. 1,781,901; Nov. 18.
Valve protector. P. J. Shrum. 1,782,150; Nov. 18.
Valve, Rotary. J. M. Rauha, jr., and A. Mattson. 1,782,389; Nov. 18.
Vanity case. L. A. Anderson. 1,782,377; Nov. 18.
Vanity case. L. V. Aronson. 1,782,024; Nov. 18.
Vase, Illuminated flower. F. C. Emmes and J. H. Knopp. 1,781,835; Nov. 18.
Vat assistant for use in dyeing. J. G. Kern and C. J. Sala. 1,782,122; Nov. 18.
Vehicle heater. G. N. Thomas. 1,782,325; Nov. 18.
Vehicle, Trailer. A. B. Cadman. 1,782,115–16; Nov. 18.
Vehicles and the like through the medium of their wheels, Means or apparatus for lifting motor. J. A. G. Kirsten. 1,782,306; Nov. 18.
Vending machine. R. I. Graves. 1,781,839; Nov. 18.
Ventilator: *See*—
Window ventilator.
Viscous mixtures, Apparatus for preparing. W. L. Smith. 1,782,370; Nov. 18.
Visor, Decorated. S. A. Kornsweet. 1,782,206; Nov. 18.
Wagon, Child's. J. Werlich. 1,782,330; Nov. 18.
Wall. O. L. Gent. 1,782,034; Nov. 18.
Warp-beam lock. C. C. Shaw. 1,781,736; Nov. 18.
Washer: *See*—
Lock washer.
Washing machines, Agitator for. M. E. Block. 1,781,774; Nov. 18.
Water heater. R. D. Goldberg. Des. 82,552; Nov. 18.
Water heater. V. Mauck. 1,782,209; Nov. 18.
Water heater, Unrestricted-return. W. A. Daley. 1,782,380; Nov. 18.
Water tap. J. Powell. 1,782,315; Nov. 18.
Weather strip. W. S. Pritchard. 1,781,882; Nov. 18.
Wedding ring. P. Krasnow. Des. 82,566; Nov. 18.
Wedding ring. A. H. Quast and O. B. Olsen. Des. 82,585; Nov. 18.
Welding. B. S. Robinoff, S. E. Paine, and W. E. Quillen. 1,782,316; Nov. 18.
Welding and the resultant product. O. U. Hofmann. 1,782,234; Nov. 18.
Well-drilling apparatus. W. Shedon. 1,781,706–7; Nov. 18.
Well drilling, Apparatus for. G. D. Parker. 1,781,989; Nov. 18.
Well elevator. J. Grant. 1,781,922; Nov. 18.
Wet mixtures, Method and apparatus for preparing. J. C. MacIldowie. 1,781,728; Nov. 18.
Wheel: *See*—
Car wheel.
Wheel driving joint with steering swivel for motor vehicles, Front-. C. Matschei. 1,782,361; Nov. 18.
Wheel for railroad vehicles. P. M. Bourdon. 1,782,285; Nov. 18.
Wheel puller. G. W. Grebenstein. 1,782,037; Nov. 18.
Wheels or other elements from their bearings, Device for removing. J. S. Imlach. 1,782,303; Nov. 18.
Winch drum. A. Lang. 1,782,358; Nov. 18.
Winding machine. H. D. Tracy. 1,781,770; Nov. 18.
Windmill. A. B. Willenbring. 1,782,280; Nov. 18.
Windshield-cleaner-operating mechanism. J. L. Nilson and J. F. Prince. 1,781,697; Nov. 18.
Window, Sliding and swinging. B. Paul. 1,781,858; Nov. 18.
Window ventilator. J. Majuschak. 1,782,098; Nov. 18.
Wood wheel. W. N. Booth. Des. 82,541; Nov. 18.
Wrench. L. D. Anderson. 1,781,940; Nov. 18.
Wrench. J. Nation. 1,782,364; Nov. 18.
Wrench. F. M. Wilson. 1,781,994; Nov. 18.
Zeolite. A. O. Jaeger and J. A. Bertsch. 1,782,353; Nov. 18.
Zinc oxide, Manufacturing high-grade. F. E. Pierce. 1,781,702; Nov. 18.

CLASSIFICATION OF PATENTS

ISSUED NOVEMBER 18, 1930

NOTE.—First number=class, second number=subclass, third number=patent number

2— 10: 1,781,832
12: 1,782,206
40: 1,782,311
42: 1,782,044
1,782,279
68: 1,781,842
73: 1,781,929
129: 1,782,336
132 1,782,000
146: 1,782,183
243: 1,782,041
4— 134: 1,781,938
145: 1,781,692
203: 1,781,719
5— 8: 1,781,807
99: 1,782,217
319: 1,782,276
6— 2: 1,782,202
8— 5: 1,782,122
9— 2: 1,781,860
10— 162: 1,781,873
12— 125: 1,781,690
147: 1,781,907
15— 21: 1,781,956
65: 1,781,763
74: 1,782,018
77: 1,781,946
16— 39: 1,781,732
1,781,815
42: 1,781,951
66: 1,782,040
18— 5: 1,781,688
12: 1,782,322
47.5: 1,782,384
48: 1,781,728
20— 1.13: 1,782,121
1,782,369
48: 1,781,858
68: 1,781,864
22— 69: 1,781,939
1,782,248
209: 1,782,047
23— 102: 1,782,038
148: 1,781,702
168: 1,781,954
207: 1,781,859
212: 1,781,935
219: 1,781,830
226: 1,782,226
227: 1,782,225
234: 1,782,353
24— 17: 1,782,194
19: 1,782,266
66: 1,782,185
134: 1,782,030
137: 1,782,057
140: 1,782,066
155: 1,781,737
166: 1,781,709
208: 1,782,164
1,782,165
1,782,166
219: 1,782,293
223: 1,782,208
230.5: 1,781,975
232: 1,782,379
246: 1,782,275
25— 10: 1,782,076
17: 1,781,992
27: 1,782,236
28: 1,781,947
42: 1,782,051
45: 1,782,301
155: 1,782,383
156: 1,782,295
27— 1: 1,782,332
28— 49: 1,782,162
29— 38: 1,782,138
85: 1,782,037
1,782,303
88.2: 1,782,219
148.2: 1,781,723
32— 4: 1,781,738
9: 1,781,899
1,781,908
1,782,251
33— 62: 1,782,114
180: 1,782,142
34— 10: 1,782,177
26: 1,781,879
34: 1,782,244
36— 22: 1,781,715
34: 1,781,847
35: 1,781,931
50: 1,782,136
54: 1,781,950
68: 1,781,953
76: 1,782,178
37— 156: 1,782,363
40— 7: 1,781,980
10: 1,782,193
28: 1,782,328
77: 1,782,065
120: 1,781,782
1,781,783
130: 1,782,175
1,782,181
133: 1,781,677
1,781,727
41— 10: 1,781,687
1,781,752
43— 28: 1,782,010
45: 1,782,204
89: 1,782,253
45— 31: 1,781,718
47: 1,782,059
51: 1,781,977
106: 1,782,203
129: 1,782,118
138: 1,782,239
46— 14: 1,782,070
40: 1,782,042
1,782,163
50: 1,782,385
48— 64: 1,781,767
49— 53: 1,781,917
77: 1,782,169
51— 72: 1,782,269
95: 1,782,154
134: 1,781,674
176: 1,782,376
184.3: 1,781,856
218: 1,782,351
1,782,352
220: 1,782,063
53— 1: 1,782,079
4: 1,781,678
8: 1,781,995
55— 9: 1,781,919
60: 1,781,851
77: 1,782,201
107: 1,781,952
146: 1,781,734
56— 25: 1,782,304
54: 1,781,961
103: 1,782,321
185: 1,782,261
241: 1,782,029
344: 1,782,067
58— 1: 1,781,740
6: 1,782,274
14: 1,782,378
60— 95: 1,782,220
62— 31: R. 17,872
95: 1,781,758
1,781,778
115: 1,782,189
64— 5: 1,782,195
91: 1,782,337
66— 89: 1,782,007
101: 1,782,161
106: 1,782,298
137: 1,782,299
179: 1,781,933
67— 7.1: 1,782,025
68— 9: 1,782,101
1,782,137
26: 1,782,039
70— 15: 1,781,813
46: 1,782,347
55: 1,782,212
72— 20: 1,781,794
36: 1,782,023
46: 1,782,034
72— 53: 1,781,699
98: 1,781,773
108: 1,782,216
116: 1,782,147
73— 28: 1,781,744
54: 1,781,756
1,782,233
109: 1,781,814
110: 1,781,818
112: 1,781,735
118: 1,782,106
151: 1,782,002
74— 7: 1,781,996
1,782,318
31: 1,781,937
34: 1,781,924
1,781,925
1,782,001
1,782,158
58: 1,782,184
1,782,342
1,782,343
59: 1,781,761
78: 1,781,746
81: 1,782,035
93: 1,782,022
116: 1,781,805
75— 1: 1,782,300
76— 40: 1,781,941
82.2: 1,781,967
80— 41: 1,781,798
1,781,809
81— 79: 1,782,364
86: 1,781,940
92: 1,781,994
82— 33: 1,782,272
83— 3: 1,782,372
11: 1,781,891
1,781,904
29: 1,781,808
62: 1,782,296
73: 1,781,823
1,781,965
75: 1,782,128
84— 41: 1,782,061
422: 1,782,247
85— 32: R. 17,870
87— 2: 1,782,267
88— 1: 1,781,999
19.3: 1,781,923
24: 1,782,288
42: 1,781,760
54: 1,782,331
89— 28: 1,782,148
90— 11: 1,782,104
1,782,235
135: 1,781,703
91— 14.5: 1,782,123
45: 1,782,309
68: 1,781,877
92— 7: 1,781,712
9: 1,781,733
13: 1,782,382
38: 1,782,349
39: 1,782,214
1,782,215
42: 1,782,281
44: 1,781,928
93— 87: 1,782,086
95— 6: 1,782,259
100: 1,782,068
97— 15: 1,781,829
38: 1,781,743
143: 1,781,972
98— 99: 1,782,098
99— 11: 1,782,011
100— 39: 1,782,273
101— 91: 1,781,793
127: 1,781,834
218: 1,781,739
391: 1,781,979
102— 24: 1,782,292
29: 1,782,291
103— 37: 1,782,073
44: 1,782,144
113: 1,782,345
140: 1,782,314
103— 153: 1,781,803
183: 1,782,252
232: 1,781,524
260: 1,782,310
265: 1,782,009
105— 47: 1,782,346
79: 1,781,846
186: 1,782,130
189: 1,782,093
200: 1,782,211
355: 1,781,775
381: 1,782,168
106— 1.5: 1,781,711
23: 1,782,036
107— 7: 1,782,327
9: 1,782,006
21: 1,782,305
58: 1,782,088
108— 26: 1,782,246
110— 72: 1,781,811
76: 1,781,780
112— 27: 1,782,375
113— 112: 1,782,234
119: 1,782,329
114— 66.5: 1,782,320
116— 118: 1,781,862
124.3: 1,782,368
117— 20: 1,781,894
41: 1,782,381
118— 59: 1,781,828
119— 73: 1,782,075
1,782,350
84: 1,782,308
120— 108: 1,782,108
1,782,109
121— 19: 1,782,102
164: 1,781,697
122— 5: 1,781,765
31: 1,781,836
214: 1,781,915
451: 1,781,749
481: 1,782,096
123— 47: 1,781,704
50: 1,781,831
52: 1,782,333
81: 1,781,901
139: 1,781,890
171: 1,781,696
173: 1,782,317
177: 1,782,187
179: 1,782,027
190: 1,782,389
196: 1,781,840
126— 38: 1,782,008
90: 1,782,229
113: 1,782,197
128— 62: 1,782,005
291: 1,782,152
131— 39: 1,782,180
57: 1,781,701
132— 7: 1,781,748
41: 1,781,812
80: 1,782,033
83: 1,782,024
1,782,377
134— 18: 1,781,730
20: 1,781,716
137— 13: 1,782,012
18: 1,782,139
73: 1,781,698
76: 1,781,985
91: 1,782,150
93: 1,782,221
1,782,222
103: 1,782,319
138— 10: 1,782,103
139— 104: 1,781,817
188: 1,782,099
426: 1,781,897
144— 208: 1,781,942
231: 1,782,243
304: 1,781,997
145— 128: 1,782,284
146— 10: 1,781,838
12: 1,782,124
180: 1,781,973
149— 21: 1,782,097
150— 2: 1,782,354
1,782,355
38: 1,782,003
151— 35: 1,782,387
152— 14: 1,782,283
153— 79: 1,782,077
154— 2.6: 1,781,896
21: 1,782,107
54: 1,781,797
155— 33: 1,782,270
55: 1,782,241
101: 1,782,231
156— 10: 1,782,159
1,782,339
14: 1,782,173
24: 1,782,131
1,782,132
1,782,357
158— 92: 1,782,049
99: 1,781,784
1,781,785
117.5: 1,782,050
159— 4: 1,782,054
164— 48: 1,781,839
49: 1,781,819
56: 1,782,362
63: 1,782,237
68: 1,781,900
124: 1,781,863
167— 20: 1,781,841
169— 1: 1,782,126
15: 1,782,366
170— 68: 1,782,280
101: 1,782,277
159: 1,781,960
163: 1,782,167
173: 1,781,883
222: 1,781,762
252: 1,782,200
327: 1,781,690
1,782,117
172— 126: 1,782,242
237: 1,782,262
1,782,263
173— 328: 1,781,957
330: 1,782,297
361: 1,781,958
174— 177: 1,782,218
175— 183: 1,781,914
1,782,019
264: 1,782,340
312: 1,782,390
318: 1,782,129
336: 1,781,844
339: 1,781,795
1,782,094
356: R. 17,871
359: 1,781,776
363: 1,782,228
177— 7: 1,781,927
311: 1,781,792
314: 1,782,190
327: 1,781,853
1,781,888
337: 1,782,334
178— 6: 1,781,799
1,781,800
1,781,866
14: 1,781,944
33: 1,781,905
179—100.3: R. 17,876
1,781,945
111: 1,782,278
115: 1,781,988
155: 1,782,191
161: 1,781,916
171: 1,781,759
180— 9.2: 1,781,978
43: 1,782,361
181— 26: 1,782,294
27: 1,781,974
31: 1,781,949
182— 12: 1,781,683
183— 11: 1,781,742
40: 1,782,064
51: 1,782,374
183— 115: 1,781,693
1,782,287
184— 3: 1,782,133
5: 1,781,755
7: 1,781,948
51: 1,782,135
185— 2: 1,781,679
187— 52: 1,782,223
188— 10: 1,781,843
16: 1,782,176
78: 1,781,993
152: 1,781,868
1,781,869
165: 1,782,192
250: 1,781,691
189— 1: 1,781,787
21: 1,781,889
65: 1,782,338
192— .02: 1,781,689
43.2: 1,781,932
1,781,936
125: 1,782,360
135: 1,782,084
194— 88: 1,782,250
103: 1,782,249
195— 20: 1,781,788
196— 24: 1,781,826
48: 1,781,884
1,782,160
49: 1,782,056
57: 1,781,872
74: 1,782,186
197— 17: 1,781,720
165: 1,781,725
181: 1,782,060
198— 7: 1,781,895
129: 1,781,750
137: 1,781,806
160: 1,782,227
189: 1,782,335
199— 56: 1,782,371
200— 1: 1,781,962
6: 1,781,710
12: 1,781,892
52: 1,782,048
97: 1,782,100
107: 1,781,893
125: 1,781,786
127: 1,782,089
129: 1,781,990
133: 1,781,876
1,781,909
141: 1,781,855
156: 1,781,970
201— 55: 1,781,959
61: 1,781,802
202— 6: 1,781,766
1,781,934
15: 1,781,871
57: 1,781,987
153: 1,781,745
204— 1: 1,781,789
2: 1,782,092
5: 1,781,791
206— 34: 1,782,074
38: 1,782,145
41.4: 1,782,026
44: 1,782,120
56: 1,781,852
1,782,365
75: 1,781,779
208— 174: 1,782,078
209— 149: 1,781,790
173: R. 17,873
227: 1,781,998
416: 1,781,857
441: 1,781,810
467: 1,782,391
1,782,392
210— 63: 1,782,179
72: 1,781,984
1,782,264
75: 1,781,921
1,782,224
165: 1,781,874
1,781,964
211— 32: 1,782,302

211— 33: 1,781,822
89: 1,781,976
131: 1,782,257
214— 1: 1,782,306
16.1: 1,781,753
1,781,955
19: 1,782,043
217— 13: 1,782,307
19: 1,781,825
62: 1,782,110
76: 1,782,157
219— 8: 1,781,930
10: 1,782,316
1,782,373
40: 1,782,069
45: 1,781,741
220— 1: 1,781,909
1,782,271
24: 1,781,878
44: 1,782,174
85: 1,781,722
221— 73.5: 1,781,854
1,782,020
1,782,021
98: 1,781,908
100: 1,781,881
128: 1,781,986
222— 7: 1,781,845
223— 61: 1,781,991
224— 23: 1,781,816
226— 1: 1,782,232
229— 62: 1,782,240
230— 79: 1,782,282
95: 1,782,199
108: 1,782,188

232— 4: 1,781,920
1,782,213
233— 11: 1,782,028
46: 1,781,676
234— 1: 1,782,151
235— 130: 1,782,080
236— 1: 1,782,045
238— 62: 1,782,153
237: 1,782,031
316: 1,782,170
240— 2: 1,781,835
8.2: 1,781,865
10: 1,781,885
10.5: 1,782,015
48.6: 1,782,393
61: 1,782,290
242— 43: 1,781,770
84.7: 1,781,695
124: 1,781,801
158: 1,782,358
244— 12: 1,782,210
15: 1,781,910
18: 1,782,155
21: 1,782,134
25: 1,782,256
29: 1,782,149
31: 1,782,013
1,782,072
245— 10: 1,782,004
246— 3: 1,782,156
5: 1,781,963
21: 1,782,052
39: 1,781,827
128: 1,782,312
242: 1,781,880

246— 380: 1,782,182
486: 1,781,675
247— 2: 1,781,686
32: 1,781,726
248— 14.2: 1,782,091
19: 1,782,119
41: 1,782,146
250— 27: 1,781,861
251— 17: 1,782,238
93: 1,781,821
144: 1,781,681
159: 1,782,315
167: 1,781,771
254— 1: 1,782,313
17: 1,781,833
145: 1,781,700
190: 1,782,348
255— 19: 1,781,989
22: 1,781,706
1,781,707
51: 1,781,887
257— 9: 1,781,913
25: 1,782,058
39: 1,782,105
129: 1,781,781
220: 1,782,205
236: 1,781,764
241: 1,781,731
1,782,325
248: 1,782,209
1,782,380
263: 1,782,171
1,782,260
259— 1: 1,782,370
4: R. 17,875

259— 10: 1,782,095
91: 1,781,714
96: 1,782,143
101: 1,781,774
102: 1,782,245
260— 1: 1,781,772
1,782,140
13: 1,782,090
16: 1,782,111
1,782,112
29: 1,782,356
46: 1,781,906
129: 1,781,982
159: 1,781,981
262— 30: 1,781,906
33: 1,782,172
263— 19: 1,781,796
265— 44: 1,782,032
47: 1,782,255
49: 1,782,125
58: 1,782,127
266— 1.5: R. 17,874
1,782,359
267— 1: 1,781,724
46: 1,782,113
48: 1,782,286
53: 1,781,898
64: 1,782,141
74: 1,781,708
268— 62: 1,781,694
270— 68: 1,781,768
1,782,323
272— 31: 1,781,804
33: 1,782,207
273— 1: 1,782,254

273— 33: 1,781,684
1,781,757
65: 1,782,198
98: 1,781,717
145: 1,781,983
150: 1,781,850
277— 61: 1,782,367
280— 33.1: 1,782,115
1,782,116
61: 1,781,754
95: 1,781,705
100: 1,782,265
103: 1,782,053
113: 1,782,330
158: 1,782,065
282— 5: 1,782,388
26: 1,781,902
283— 47: 1,782,046
285— 30: 1,781,848
1,781,849
91: 1,782,062
115: 1,781,682
286— 7: 1,781,926
22: 1,782,258
287—52.08: 1,782,196
53: 1,781,721
54: 1,782,017
110: 1,782,324
288— 1: 1,782,014
1,782,087
292— 15: 1,781,912
76: 1,781,870
114: 1,781,729
128: 1,781,820
169: 1,782,386

292— 241: 1,782,016
295: 1,782,289
340: 1,782,071
294— 32: 1,781,837
63: 1,781,943
79: 1,782,062
86: 1,781,903
90: 1,781,922
96: 1,781,918
106: 1,781,875
112: 1,782,326
295— 11: 1,782,285
29: 1,781,867
296— 28: 1,782,230
93: 1,781,882
97: 1,781,777
101: 1,781,713
299— 60: 1,781,751
96: 1,782,083
508: 1,781,971
303— 59: 1,781,747
80: 1,782,268
304— 4: 1,781,911
306— 24: 1,781,736
47: 1,782,055
134: 1,781,685
212: 1,781,886
312— 86: 1,782,081
125: 1,781,769
141: 1,782,344

U. S. GOVERNMENT PRINTING OFFICE: 1930

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS

Acme Flour Mills Co., The, Oklahoma City, Okla. Wheat flour. 277,603; Nov. 25; Serial No. 303,020; published Sept. 9, 1930. Class 46.

Algemeene Kunstzijde Unie N. V., Arnhem, Netherlands. Artificial-silk threads. 277,826; Nov. 25; Serial No. 301,003; published Sept. 9, 1930. Class 43.

Allis-Chalmers Manufacturing Company. (See La Crosse Plow Company, assignor.)

American Cap Co., Philadelphia, Pa. Dust caps. 277,672; Nov. 25; Serial No. 302,762; published Sept. 9, 1930. Class 39.

American Demag Corporation, Chicago, Ill. Pyrometer. 277,798; Nov. 25; Serial No. 303,361; published Sept. 9, 1930. Class 26.

American Electrical Company, Boston, Mass. Electric burglar alarms and parts thereof. 277,763; Nov. 25; Serial No. 280,372; published Sept. 9, 1930. Class 21.

American Hide and Leather Company, Boston, Mass. Calf leather. 277,787; Nov. 25; Serial No. 301,774; published Sept. 9, 1930. Class 1.

American Lakes Paper Company, Chicago, Ill. Paper, and more particularly such paper as is used for wrapping purposes. 277,713–4; Nov. 25; Serial Nos. 293,359–60; published Sept. 9, 1930. Class 37.

American Lithographic Company, Inc., New York, N. Y. Periodicals. 277,728; Nov. 25; Serial No. 303,941; published Sept. 9, 1930. Class 38.

American Mineral Spirits Co., Chicago, Ill. Naphtha. 277,758; Nov. 25; Serial No. 292,703; published Sept. 9, 1930. Class 16.

American Paper Bottle Company, The, Toledo, Ohio. Paper bottles. 277,654; Nov. 25; Serial No. 283,538; published Sept. 9, 1930. Class 2.

American Pulley Company, The, Philadelphia, Pa. Package trays for trucks. 277,655; Nov. 25; Serial No. 283,427; published Sept. 9, 1930. Class 2.

Ames Harris Neville Co., San Francisco, Calif. Publication. 277,736; Nov. 25; Serial No. 302,805; published Sept. 9, 1930. Class 38.

Ammon, Edward R., Reading, Pa. Counting machines. 277,790; Nov. 25; Serial No. 303,795; published Sept. 9, 1930. Class 26.

Andre, Incorporated, Long Island City, N. Y. Shoes. 277,674; Nov. 25; Serial No. 302,923; published Sept. 9, 1930. Class 39.

Antiquarian Publishing Company, Inc., New York, N. Y. Periodical or trade paper. 277,734; Nov. 25; Serial No. 303,146; published Sept. 9, 1930. Class 38.

Apex Smelting Company, Chicago, Ill. Aluminum-base alloys. 277,689; Nov. 25; Serial No. 303,313; published Sept. 9, 1930. Class 14.

Apollo Shirt Co., New York, N. Y. Shirts and underwear. 277,815; Nov. 25; Serial No. 303,022; published Sept. 2, 1930. Class 39.

Armature & Ignition Supply Co., Oakland, Calif. Armatures and armature-testing devices. 277,762; Nov. 25; Serial No. 283,320; published Sept. 9, 1930. Class 21.

Atlantic Refining Company, The, Philadelphia, Pa. Refined petroleum. 80,019–20; renewed Nov. 1, 1930.

Atlantic Refining Company, The, Philadelphia, Pa. Refined petroleum. 80,399; renewed Dec. 20, 1930.

Austin, Nichols & Co. Inc., Brooklyn, N. Y. Canned corn. 277,854; Nov. 25. Class 46.

Automobile Club of New Haven County, The, New Haven, Conn. Magazine. 277,730; Nov. 25; Serial No. 303,735; published Sept. 9, 1930. Class 38.

Bankle, Fred J., doing business as Bankle Cotton Products Co., Detroit, Mich. Polishing cloths. 277,697; Nov. 25; Serial No. 302,456; published Sept. 9, 1930. Class 29.

Barcley Corset Company, Newark, N. J. Foundation garments. 277,676; Nov. 25; Serial No. 303,149; published Sept. 2, 1930. Class 39.

Bauer, Max, Incorporated, New York, N. Y. Coats, suits, leggings, etc. 277,673; Nov. 25; Serial No. 302,806; published Sept. 9, 1930. Class 39.

Bay City Shovels, Inc., Bay City, Mich. Power shovels, tractor shovels, skimmers, etc. 277,775; Nov. 25; Serial No. 303,873; published Sept. 9, 1930. Class 23.

Bear Brand Hosiery Co., Chicago, Ill. Hosiery. 277,807–8; Nov. 25; Serial Nos. 303,461–2; published Sept. 9, 1930. Class 39.

Bender, W. F., & Co. Inc., Buffalo, N. Y. Baby napkins. 277,705; Nov. 25; Serial No. 299,106; published Aug. 26, 1930. Class 42.

Bergmann, Theo., Shoe Mfg. Co., Portland, Oreg. Shoes. 277,662; Nov. 25; Serial No. 301,330; published Sept. 2, 1930. Class 39.

Big Store Company, The, Cincinnati, Ohio. Suits, overcoats, topcoats, etc. 277,753; Nov. 25; Serial No. 296,474; published Sept. 2, 1930. Class 39.

Birk, Walter, Candy Company. (See Central Candy Company, assignor.)

Bissell Carpet Sweeper Company, assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Carpet sweepers. 80,976–82; renewed Feb. 21, 1931.

Blish Milling Company, The, Seymour, Ind. Stock food. 80,636; renewed Jan. 17, 1931.

Blish Milling Company, The, Seymour, Ind. Wheat flour. 80,637; renewed Jan. 17, 1931.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 277,769; Nov. 25; Serial No. 303,991; published Sept. 9, 1930. Class 42.

Borden, M. C. D., & Sons, Inc., New York, N. Y. Ladies' dresses. 277,760; Nov. 25; Serial No. 291,111; published Dec. 24, 1929. Class 39.

Borden Western Company, The. (See Scio Condensed Milk Co.)

Bridgeport Machine Company, The, Wichita, Kans. Underreamers. 277,850–2; Nov. 25. Class 23.

Brill Brothers, New York, N. Y. Certain named apparel. 36,244; renewed Apr. 16, 1931.

Brown Company, Portland, Me., and Berlin, N. H. Metal end pieces for cores. 277,825; Nov. 25; Serial No. 301,093; published Sept. 9, 1930. Class 2.

Brown Durrell Co., Boston, Mass. Children's underclothing. 80,266; renewed Nov. 29, 1930.

Bruce Publishing Company, The, Milwaukee, Wis. Magazine. 277,737; Nov. 25; Serial No. 302,723; published Sept. 9, 1930. Class 38.

Bulova Watch Company, Inc., New York, N. Y. Watches. 277,684; Nov. 25; Serial No. 303,836; published Sept. 9, 1930. Class 27.

Burnham & Morrill Company, Portland, Me. Canned vegetables. 277,683; Nov. 25; Serial No. 303,875; published Sept. 9, 1930. Class 46.

Cabot, Samuel, Incorporated, Boston, Mass. Antiseptic. 81,382; renewed Apr. 4, 1931.

Casco Products Corporation, Bridgeport, Conn. Electric cigar lighters. 277,750; Nov. 25; Serial No. 299,041; published Sept. 9, 1930. Class 21.

Cataract Refining and Manufacturing Company, Buffalo, assignor to Swan-Finch Oil Corporation, New York, N. Y. Lubricating grease and yarn grease. 80,268; renewed Nov. 29, 1930.

Central Candy Company, assignor to Walter Birk Candy Company, Chicago, Ill. Chocolate candies. 80,573; renewed Jan. 10, 1931.

Chain Belt Company, Milwaukee, Wis. Castings. 277,685; Nov. 25; Serial No. 303,627; published Sept. 9, 1930. Class 14.

Chalfont Hosiery Mills, Chalfont, Pa. Full-fashioned silk hosiery. 277,751; Nov. 25; Serial No. 298,488; published Sept. 9, 1930. Class 39.

Chamberlain, F. C., & Co. Inc., New York, N. Y. Spats. 277,717; Nov. 25; Serial No. 300,857; published Sept. 9, 1930. Class 39.

Church Federator Co., The, Chicago, Ill. Periodical magazine. 277,729; Nov. 25; Serial No. 303,878; published Sept. 9, 1930. Class 38.

Citrus Juice & Flavor Company, Los Angeles, Calif. Beverages, sirups, and extracts for making the same. 277,801; Nov. 25; Serial No. 303,158; published Sept. 9, 1930. Class 45.

Cohen, Alfred A., New York, N. Y. Periodicals. 277,747; Nov. 25; Serial No. 303,949; published Sept. 9, 1930. Class 38.

Cokesbury Press. (See Lamar & Whitmore, Book Agents, Publishing House, M. E. Church, South.)

Continental Baking Company, Wilmington, Del., and New York, N. Y. Cake. 277,784; Nov. 25; Serial No. 303,246; published Sept. 9, 1930. Class 46.

Continental Manufacturing Corporation, Ltd., Los Angeles, Calif. Bath brushes. 277,680; Nov. 25; Serial No. 304,040; published Sept. 9, 1930. Class 29.

Cork Insulation Co. Inc., New York, N. Y. Cork board, cork pipe covering, etc. 277,830; Nov. 25; Serial No. 302,769; published Sept. 9, 1930. Class 12.

Corn Products Refining Company. (See National Starch Company, assignor.)

Corn Products Refining Company, Jersey City, N. J., and New York, N. Y., to Corn Products Refining Company, New York, N. Y. Compound of corn, molasses, and sorghum syrup. 81,202; renewed Mar. 14, 1931.

Cuesta, Rey & Co., Tampa, Fla. Cigars. 80,803; renewed Jan. 31, 1931.

Davis, Israel, Lawrence, Mass. Soap. 277,759; Nov. 25; Serial No. 292,660; published Sept. 9, 1930. Class 4.

Delrae, Doris. (See Mora, Helene.)

Delta Flour Mills Co., Minneapolis, Minn. Wheat flour. 277,721; Nov. 25; Serial No. 300,173; published Sept. 9, 1930. Class 46.

Delta Omicron, Cincinnati, Ohio. Pledge pins, badges, and pendants. 277,813; Nov. 25; Serial No. 303,278; published Sept. 9, 1930. Class 28.

Delta Psi, New York, N. Y. Articles made of or plated with precious metal, consisting of pins, watch fobs, and medals. 277,756; Nov. 25; Serial No. 293,961; published Sept. 9, 1930. Class 28.

Deming & Gould Company, Chicago, Ill., to Deming & Gould Co., South Bellingham, Wash. Canned salmon. 81,256; renewed Mar. 21, 1931.

De Nobili, Prospero, & Co., New York, assignor to De Nobili Cigar Company, Long Island City, N. Y. Turkish cigarettes. 79,193; renewed Aug. 16, 1930.

Dickerson, Walter T., Company, The, Columbus, Ohio. Shoes. 277,707; Nov. 25; Serial No. 299,051; published Sept. 2, 1930. Class 39.

District of Columbia Paper Manufacturing Company, Alexandria, Va., and Washington, D. C., to District of Columbia Paper Manufacturing Company, Washington, D. C. Paper. 80,466; renewed Dec. 27, 1930.

District of Columbia Paper Manufacturing Company, Alexandria, Va., and Washington, D. C., to District of Columbia Paper Manufacturing Company, Washington, D. C. Paper. 80,767; renewed Jan. 31, 1931.

Dobbs & Co., New York, N. Y. Travelling bags, suitcases, hand bags, etc. 277,725; Nov. 25; Serial No. 299,901; published Sept. 9, 1930. Class 3.

Donaldson, William M., to J. A. Donaldson, doing business as Donaldson Paper Company, Harrisburg, Pa., successor. Writing and printing paper. 81,438; renewed Apr. 11, 1931.

Dorado Club Beverage Co., Los Angeles, Calif. Maltless beverages. 277,827; Nov. 25; Serial No. 304,129; published Sept. 9, 1930. Class 45.

Dreadnought Flooring Company, as assignee of Axel W. Nilsson, assignor, by mesne assignments, to Dreadnought Flooring Co. Inc., New York, N. Y. Composition floor tiling. 80,938; renewed Feb. 14, 1931.

E-Z Mills, Inc., New York, N. Y. Beach suits. 277,838; Nov. 25; Serial No. 302,379; published Sept. 9, 1930. Class 39.

Eagle Clothes, New York, N. Y. Clothing. 277,809–10; Nov. 25; Serial Nos. 303,425–6; published Sept. 9, 1930. Class 39.

Eagle Pencil Company, assignor to Eagle Pencil Company, New York, N. Y. Lead pencils. 80,768; renewed Jan. 31, 1931.

Eastern Fruit Distributors, Inc., Los Angeles, Calif. Fresh vegetables and fruits, fresh grapes, etc. 277,860; Nov. 25. Class 46.

Edwards, R. G., to Edwards' Harlene, Limited, London, England, successor. Shampoo powder. 79,966; renewed Oct. 25, 1930.

Engelberg, L. E., doing business as Madrone Vineyard, Glen Ellen, Calif. Fresh deciduous fruits. 277,692; Nov. 25; Serial No. 303,102; published Sept. 9, 1930. Class 46.

Enterprise Manufacturing Company, The, Akron, Ohio. Artificial bait. 277,752; Nov. 25; Serial No. 296,733; published Sept. 9, 1930. Class 22.

Ericsson Screw Machine Products Co., Inc., Brooklyn, N. Y. Safety razors, razor-blade holders, and razor blades. 277,780; Nov. 25; Serial No. 303,804; published Sept. 9, 1930. Class 28.

Everitt & Graf, Inc., Milwaukee, Wis. Ladies' hats. 277,658; Nov. 25; Serial No. 270,242; published Oct. 23, 1928. Class 39.

Fairchild Bros. & Foster, New York, N. Y. Glycolytic extract of pancreas. 80,114; renewed Nov. 8, 1930.

Fairview Fruit Packing Co., doing business as Fairview Fruit & Health Food Co., Los Angeles, Calif. Dried fruits. 277,698; Nov. 25; Serial No. 301,425; published Sept. 9, 1930. Class 46.

Fancher, Howard M., doing business as Rochester Folding Box Co., Rochester, N. Y. Games. 277,839; Nov. 25; Serial No. 302,242; published Sept. 9, 1930. Class 22.

Fitger Company, The, Duluth, Minn. Malt cereal beverage. 277,703; Nov. 25; Serial No. 299,312; published Sept. 9, 1930. Class 48.

Flasher Sales and Service Co., Inc., New York, N. Y. Electric signs. 277,818; Nov. 25; Serial No. 302,939; published Sept. 9, 1930. Class 21.

Forbes & Wallace, Inc., Springfield, Mass. Shoes. 277,677; Nov. 25; Serial No. 303,175; published Sept. 9, 1930. Class 39.

Franks, Helen C. M., doing business as Franks' Laboratories and Research Bureau, Brooklyn, N. Y. Ginger ale and ginger syrup. 277,659; Nov. 25; Serial No. 268,153; published Sept. 9, 1930. Class 45.

Garber Tool Company, Garber, Okla. Rotary rock-bit cones. 277,727; Nov. 25; Serial No. 303,177; published Sept. 9, 1930. Class 23.

General Fire Extinguisher Company, New York, N. Y., and Providence, R. I., assignor to General Fire Extinguisher Company, Providence, R. I. Fire-extinguishing apparatus. 80,118; renewed Nov. 8, 1930.

General Window Equipment Corporation, New York, N. Y. Adjustable shade-roller supports. 277,824; Nov. 25; Serial No. 301,896; published Sept. 9, 1930. Class 13.

Giroux Manufacturing Company, Buffalo, N. Y. Hairdressing and hair tonic. 80,277; renewed Nov. 29, 1930.

Glick, Emil, Cleveland, Ohio. Ties. 277,766–7; Nov. 25; Serial Nos. 300,408–9; published Sept. 9, 1930. Class 39.

Globe-Trotter, Inc., The, Shreveport, La. Automobile trailers. 277,779; Nov. 25; Serial No. 303,808; published Sept. 9, 1930. Class 19.

Goodyear Rubber Company, The, Middletown, Conn. Boots and shoes. 277,679; Nov. 25; Serial No. 303,328; published Sept. 2, 1930. Class 39.

Gottlieb, Isadore, doing business as Seminole Textile Co., New York, N. Y. Woolen piece goods and pile fabrics in the piece. 277,797; Nov. 25; Serial No. 303,375; published Sept. 9, 1930. Class 42.

Greenpoint Fire Brick Co., New York, to Greenpoint Fire Brick Co., Long Island City, N. Y. Fire bricks and tiles and blocks made of fire-brick material. 80,515; renewed Jan. 3, 1931.

Gunn Furniture Company, Grand Rapids, Mich. Tables, cases, desks, etc. 277,701; Nov. 25; Serial No. 299,572; published Sept. 9, 1930. Class 32.

H. & A. Bottling Company. (See Upper Peninsula Produce Company.)

H-O (Hornby's Oatmeal) Company, The, New York, assignor to Hecker-H-O Company, Inc., Buffalo, N. Y. Cereal food products. 36,005; renewed Mar. 5, 1931.

Hamill, S., Company, Keokuk, Iowa. Baking powder and laundry starch. 81,213; renewed Mar. 14, 1931.

Hansen's, Chr., Laboratory, Inc., Little Falls, N. Y. Newspaper articles. 277,846; Nov. 25. Class 38.

Hardwick & Magee Company, Philadelphia, Pa. Textile carpets. 277,853; Nov. 25. Class 42.

Hazel-Atlas Glass Company, Wheeling, W. Va. Glass bottles and jars. 81,527; renewed Apr. 18, 1931.

Hecker-H-O Company. (See H-O (Hornby's Oatmeal) Company, The, assignor.)

Holtz, Jacob, New York, N. Y. Razors and razor blades. 277,700; Nov. 25; Serial No. 292,935; published Sept. 9, 1930. Class 28.

House Furnishing Review Company, New York, N. Y. Magazine. 277,656; Nov. 25; Serial No. 283,194; published Sept. 9, 1930. Class 38.

Hunter, William J., doing business as Hunter Auto Equipment Co. Inc., assignor to Hunter Auto Equipment Co. Inc., New York, N. Y. Terminal connectors. 277,764; Nov. 25; Serial No. 277,112; published Sept. 9, 1930. Class 21.

Independent Druggists' Alliance Distributing Co., Chicago, Ill. Pipes. 277,682; Nov. 25; Serial No. 303,894; published Sept. 9, 1930. Class 8.

Independent Druggists' Alliance Distributing Co., Chicago, Ill. Ginger ale. 277,773; Nov. 25; Serial No. 303,904; published Sept. 9, 1930. Class 45.

Independent Druggists' Alliance Distributing Co., Chicago, Ill. Twine. 277,774; Nov. 25; Serial No. 303,839; published Sept. 9, 1930. Class 7.

Ingersoll-Rand Company, New York, N. Y. Automatic valves. 277,800; Nov. 25; Serial No. 303,185; published Sept. 9, 1930. Class 23.

Irish Industrial Development Association (Incorporated), The, Cork, to The Irish Industrial Development Association, Dublin, Ireland. Straight Irish whisky. 79,059; renewed Aug. 2, 1930.

Irving Oil Company, Limited, St. John, New Brunswick, Canada. Gasoline, lubricating oils, and greases. 277,754; Nov. 25; Serial No. 295,796; published Sept. 9, 1930. Class 15.

Jansen & Pretzfeld, Inc., New York, N. Y. Silk piece goods. 277,778; Nov. 25; Serial No. 303,813; published Sept. 2, 1930. Class 42.

Jenckes, Manville, Company, Pawtucket, R. I. Cord fabric. 277,711; Nov. 25; Serial No. 295,627; published Sept. 9, 1930. Class 42.

Jensen Radio Manufacturing Company, Chicago, Ill. Radio loud-speakers. 277,819–20; Nov. 25; Serial Nos. 302,899–900; published Sept. 9, 1930. Class 21.

Jensen Radio Manufacturing Company, Chicago, Ill. Radio loud-speakers. 277,828; Nov. 25; Serial No. 302,898; published Sept. 9, 1930. Class 21.

Johns-Tilt Shoe Co. Los Angeles, Calif. Shoes. 277,663; Nov. 25; Serial No. 301,464; published Aug. 26, 1930. Class 39.

Junior Literary Guild, Inc., The, New York, N. Y. Periodical. 277,741; Nov. 25; Serial No. 302,510; published Sept. 9, 1930. Class 38.

Kaufmann Department Stores, Inc., Pittsburgh, Pa. Boots, shoes, slippers, etc. 277,708; Nov. 25; Serial No. 298,400; published Aug. 26, 1930. Class 39.

Kayser, Julius, & Co., New York, N. Y. Underwear, gloves, and hosiery. 277,706; Nov. 25; Serial No. 299,061; published Aug. 26, 1930. Class 39.

Keenan Structural Slate Company, Inc., Easton, Pa. Structural slate slabs. 277,749; Nov. 25; Serial No. 299,392; published Sept. 9, 1930. Class 12.

Koken Companies, St. Louis, Mo. Paneling material for walls, cabinets, or the like. 277,835; Nov. 25; Serial No. 302,581; published Sept. 9, 1930. Class 12.

Kress & Owen Company, New York, N. Y. Nasal douche. 36,125; renewed Mar. 26, 1931.

La Crosse Plow Company, La Crosse, assignor to Allis-Chalmers Manufacturing Company, West Allis and Milwaukee, Wis. Grain seeders and drills. 35,445; renewed Nov. 13, 1930.

Lamar & Whitmore, Book Agents, Publishing House, M. E. Church, South, doing business as Cokesbury Press, Nashville, Tenn. Books. 277,746; Nov. 25; Serial No. 301,041; published Sept. 9, 1930. Class 38.

Lange Canning Co., Eau Claire, Wis. Canned vegetables. 277,691; Nov. 25; Serial No. 303,192; published Sept. 9, 1930. Class 46.

"La Soie Artificielle De Calais," S. A., Calais, France. Artificial silk, thread, and yarn. 277,792–4; Nov. 25; Serial Nos. 303,603–5; published Sept. 9, 1930. Class 43.

Leindorf, Joseph P., New York, N. Y. Foods for birds. 277,696; Nov. 25; Serial No. 303,606; published Sept. 9, 1930. Class 46.

Leonardi, S. B., & Co., Tampa, Fla., to S. B. Leonardi & Co. Inc., New Rochelle, N. Y., successor. Proprietary medicines. 35,637; renewed Dec. 25, 1930.

Lima Cord Sole and Heel Company, The, Lima, Ohio. Soles made of a combination of rubber and fabric. 277,675; Nov. 25; Serial No. 302,953; published Aug. 26, 1930. Class 39.

Link Manufacturing Co., Kansas City, Mo. Grain blowers for elevating grain. 277,712; Nov. 25; Serial No. 295,270; published Sept. 9, 1930. Class 23.

Loewendahl, Walther, Shoe Co. Inc., New York, N. Y. Sandals. 277,735; Nov. 25; Serial No. 302,955; published Sept. 2, 1930. Class 39.

Los Angeles Soap Co., Los Angeles, Calif. Soap. 35,741; renewed Jan. 8, 1931.

Macy, R. H., & Co., Inc., New York, N. Y. Shoes. 277,665; Nov. 25; Serial No. 301,967; published Sept. 2, 1930. Class 39.

Madrone Vineyard. (See Engelberg, L. E.)

Margolis, Louis D., assignor to L. D. Margolis Co., Boston, Mass. Coffee. 79,290; renewed Aug. 23, 1930.

Marney, F. L., doing business as Marney Animal Food Products Co., Los Angeles, Calif. Dog food. 277,783; Nov. 25; Serial No. 303,538; published Sept. 9, 1930. Class 46.

Massillon Refractories Company, The. (See Stowe, Fuller & Co., assignor.)

McFadden Coffee & Spice Co., Dubuque, Iowa. Coffee, tea, extracts, etc. 277,742; Nov. 25; Serial No. 302,439; published Sept. 9, 1930. Class 46.

McQuay Radiator Corporation, Minneapolis, Minn. Radiators for internal-combustion engines. 277,857; Nov. 25. Class 19.

McQuay Radiator Corporation, Minneapolis, Minn. Radiators of heating systems and unit heaters and radiator and coils for heat-exchange units. 277,858; Nov. 25. Class 34.

Melhuish, Alvah R., Kingston, Pa. Air piloting and computing devices. 277,724; Nov. 25; Serial No. 299,922; published Sept. 9, 1930. Class 26.

Menasha Products Company, The, Chicago, Ill. Paper pails. 277,849; Nov. 25. Class 2.

Merchant Trading Company, Limited, The, London, England. Wall and ceiling panels. 277,842; Nov. 25; Serial No. 301,051; published Sept. 9, 1930. Class 12.

Metropole Hosiery Mills, Inc., New York, N. Y. Hosiery. 277,805; Nov. 25; Serial No. 303,510; published Sept. 9, 1930. Class 39.

Meyers Manufacturing Company, Watertown, N. Y. Suspensories, trusses, and bandages. 79,777; renewed Oct. 4, 1930.

Middletown Knitting Co., Inc., Middletown, Pa. Hosiery, socks, and anklets. 277,806; Nov. 25; Serial No. 303,482; published Sept. 9, 1930. Class 39.

Miller, Irving, & Co., New York, N. Y. Porcelain clocks. 277,690; Nov. 25; Serial No. 303,293; published Sept. 9, 1930. Class 27.

Montgomery & Company, Bay City, Mich. Butter. 277,772; Nov. 25; Serial No. 303,916; published Sept. 9, 1930. Class 46.

Montgomery, William H., Bremerton, Wash. Combination salt and pepper shaker constructed of china. 277,831; Nov. 25; Serial No. 302,736; published Sept. 9, 1930. Class 30.

Mora, Helene, doing business as Doris Delroe, New Canaan, Conn., and New York, N. Y. Cucumber cream. 277,848; Nov. 25. Class 6.

Morning News, Inc., The, Savannah, Ga. Daily newspaper. 277,731; Nov. 25; Serial No. 303,572; published Sept. 9, 1930. Class 38.

Multibestos Company, Walpole, Mass. Asbestos brake linings and asbestos clutch facings. 277,821; Nov. 25; Serial No. 303,019; published Sept. 9, 1930. Class 35.

My Maryland Mills, Incorporated, Hagerstown, Md. Underwear, bathing suits, pajamas, and running trunks. 277,755; Nov. 25; Serial No. 295,042; published Sept. 9, 1930. Class 39.

National Auto Glass Specifications. (See Tracy, Olive L.)

National Brief Case Mfg. Co., Chicago, Ill. Traveling bags and brief cases. 277,786; Nov. 25; Serial No. 302,907; published Sept. 9, 1930. Class 3.

National Starch Company, Jersey City, N. J., and New York, N. Y., assignor to Corn Products Refining Company, New York, N. Y. Starch. 81,092–3; renewed Feb. 28, 1931.

Nature's Rival Co., Chicago, Ill. Foundation garments consisting of a corset and brassière. 277,666; Nov. 25; Serial No. 301,996; published Aug. 26, 1930. Class 39.

Naumkeag Steam Cotton Co., Salem, Mass. Cotton sheetings. 81,285; renewed Mar. 21, 1931.

New Jersey Clock Company, Newark, N. J. Electric clocks. 277,681; Nov. 25; Serial No. 303,974; published Sept. 9, 1930. Class 27.

New York Wire Cloth Company, New York, N. Y., and York, Pa., assignor to New York Wire Cloth Company, New York, N. Y. Wire screen cloth. 80,145; renewed Nov. 8, 1930.

Nicholson, William A., Dallas, Tex. Composition for sealing punctures. 277,843; Nov. 25. Class 5.

Nilsson, Axel W. (See Dreadnought, Flooring Company, assignor.)

Northwestern Consolidated Milling Company, The, Minneapolis, Minn. Wheat flour. 81,164; renewed Mar. 7, 1931.

Norvell-Shapleigh Hardware Company, by change of name to Shapleigh Hardware Company, St. Louis, Mo. Certain sporting goods. 81,289; renewed Mar. 21, 1931.

Norvell-Shapleigh Hardware Company, by change of name to Shapleigh Hardware Company, St. Louis, Mo. Certain hardware. 81,290; renewed Mar. 21, 1931.

Nowak, Carl A., St. Louis, Mo. Section of a periodical. 277,732; Nov. 25; Serial No. 303,381; published Sept. 9, 1930. Class 38.

Ochs, A. C., Brick & Tile Co., Springfield, Minn. Diatomaceous earth. 277,710; Nov. 25; Serial No. 297,615; published Sept. 9, 1930. Class 1.

Old Ben Coal Corporation, Chicago, Ill., assignor to Spruce River Coal Company, Massillon, Ohio. Coal. 277,704; Nov. 25; Serial No. 299,275; published Sept. 9, 1930. Class 1.

Olney & Floyd, assignor to Olney & Floyd, Inc., Westerville, N. Y. Canned vegetables. 80,797–8; renewed Jan. 31, 1931.

Oneita Knitting Mills, Utica, N. Y. Gymnasium shirts. 277,817; Nov. 25; Serial No. 302,963; published Sept. 2, 1930. Class 39.

Openhym, Wm., & Sons, New York, N. Y. Fabrics. 35,793; renewed Jan. 22, 1931.

Pacific American Fisheries, Chicago, Ill., to Pacific American Fisheries, South Bellingham, Wash. Canned salmon. 81,165; renewed Mar. 7, 1931.

Pacific American Fisheries, Chicago, Ill., to Pacific American Fisheries, South Bellingham, Wash. Canned salmon. 81,411; renewed Apr. 4, 1931.

Palmetto Whisk & Broom Company, Jacksonville, Fla. Whisk brooms and brushes. 277,812; Nov. 25; Serial No. 303,341; published Aug. 26, 1930. Class 29.

Pango Milk Chocolate Co., The, Toledo, Ohio. Milk chocolate. 277,733; Nov. 25; Serial No. 303,342; published Sept. 29, 1930. Class 46.

Pantier, R. F., doing business as Pantier Creamery Co., Shawnee, Okla. Butter. 277,699; Nov. 25; Serial No. 301,203; published Sept. 9, 1930. Class 46.

Pennsylvania Flexible Metallic Tubing Company, Philadelphia, Pa. Flexible metallic tubing. 80,870; renewed Feb. 7, 1931.

Philadelphia Quartz Company, Philadelphia, Pa. Silicate of soda. 80,943–9; renewed Feb. 14, 1931.

Philadelphia Quartz Company, Philadelphia, Pa. Silicate of soda. 80,950; renewed Feb. 14, 1931.

Philadelphia Quartz Company, Philadelphia, Pa. Silicate of soda. 81,099; renewed Feb. 28, 1931.

Philadelphia Quartz Company, Philadelphia, Pa. Silicate of soda. 81,353; renewed Mar. 28, 1931.

Philadelphia and Reading Coal and Iron Company, The, Philadelphia, Pa. Coal. 277,687; Nov. 25; Serial No. 303,576; published Sept. 9, 1930. Class 1.

Philadelphia and Reading Coal and Iron Company, The, Philadelphia, Pa. Coal. 277,781–2; Nov. 25; Serial Nos. 303,578–9; published Sept. 9, 1930. Class 1.

Pillsbury Flour Mills Company, Minneapolis, Minn. Stock and poultry food. 277,696; Nov. 25; Serial No. 302,597; published Sept. 9, 1930. Class 46.

Pioneer Suspender Company, Philadelphia, Pa. Suspenders, garters, arm bands, and belts. 277,669; Nov. 25; Serial No. 302,331; published Aug. 26, 1930. Class 39. Sept. 2, 1930. Class 39.

Plant Food Company, Inc., Canton, Miss. Fertilizers. 277,688; Nov. 25; Serial No. 303,487; published Sept. 9, 1930. Class 10.

Poirette Corsets, Inc., New York, N. Y. Foundation garments. 277,671; Nov. 25; Serial No. 302,693; published Sept. 2, 1930. Class 39.

Popular Warehouses, Limited, The, London, England. Raincoats. 277,802; Nov. 25; Serial No. 303,512; published Sept. 9, 1930. Class 39.

Popular Warehouses, Limited, The, London, England. Raincoats. 277,804; Nov. 25; Serial No. 303,511; published Sept. 9, 1930. Class 39.

Produits Alimentaires Louit Freres & Cie., Societe Anonyme. (See Société en Commandite par Actions Produits Alimentaires Louit Frères et Cie.)

Quickslip Company, Inc., New York, N. Y. Rubberized clothing. 277,678; Nov. 25; Serial No. 303,256; published Sept. 2, 1930. Class 39.

Raap, Robert R., doing business as The Union Paint & Varnish Co., Chicago, Ill. Ready-mixed paint, varnish, lacquer, and traffic paint. 277,829; Nov. 25; Serial No. 302,792; published Sept. 9, 1930. Class 16.

Rabiner Underwear Co. Inc., New York, N. Y. Underwear. 277,744; Nov. 25; Serial No. 301,293; published Sept. 2, 1930. Class 39.

Ramsey, Edward J., doing business as Ramsey's "They Cannot Rip," New York, N. Y. Shoes. 277,653; Nov. 25; Serial No. 286,385; published Sept. 9, 1930. Class 39.

Rea-Patterson Milling Co., Coffeyville, Kans. Wheat flour. 80,239; renewed Nov. 22, 1930.

Regal Corporation, The, Rochester, Minn. Vaporizing oil burners. 277,799; Nov. 25; Serial No. 303,257; published Sept. 9, 1930. Class 34.

Reilly, Frank C., New York, N. Y. Electrical signs. 277,761; Nov. 25; Serial No. 289,291; published Sept. 9, 1930. Class 21.

Renal, Inc., St. Louis, Mo. Candy. 277,695; Nov. 25; Serial No. 302,601; published Sept. 9, 1930. Class 46.
Richard, Albert, Company, Milwaukee, Wis. Coats, mackinaws, caps, etc. 277,715; Nov. 25; Serial No. 300,979; published Aug. 26, 1930. Class 39.
Rickmann, Dr., & Rappe, G. m. b. H., Chemische Fabrik. (See Roessler & Hasslacher Chemical Company, assignor.)
Riverton Lime Company, Inc., Riverton, Va. Cement, lime, and cement and lime mixtures. 277,836–7; Nov. 25; Serial Nos. 302,477–8; published Sept. 9, 1930. Class 12.
Rochester Folding Box Co. (See Fancher, Howard M.)
Roessler & Hasslacher Chemical Company, The, New York, N. Y., as assignee of Dr. Rickmann & Rappe, G. m. b. H., Chemische Fabrik, Kalk, near Cologne, Germany, assignor by mesne assignments, to The Stibium Products Company, Elyria, Ohio. Chemical substance. 79,933; renewed Oct. 18, 1930.
Rust-Go Manufacturing Co., Oklahoma City, Okla. Penetrating lubricant. 277,834; Nov. 25; Serial No. 302,643; published Sept. 9, 1930. Class 15.
Safety Carpet Underlay Co. (See Werner, R. D.)
Saya G. m. b. H., Munich, Germany. Milk, butter, cheese, etc. 277,716; Nov. 25; Serial No. 300,886; published Sept. 9, 1930. Class 46.
Schlesinger, Maurice F., assignor, by mesne assignments, to Taps Products, Inc., New York, N. Y. Cathartic tablet. 80,874; renewed Feb. 7, 1931.
Scio Condensed Milk Co., Scio, Oreg., to The Borden Western Company, San Francisco, Calif., successor. Condensed milk. 79,158; renewed Aug. 9, 1930.
Scott, Vern E., doing business as Scott Birdsall Company, San Francisco, Calif. Firecrackers. 277,789; Nov. 25; Serial No. 304,073; published Sept. 9, 1930. Class 9.
Scudders-Gale Grocer Co., The, St. Louis, Mo. Certain foods. 81,305; renewed Mar. 21, 1931.
Sears, Roebuck and Co., Chicago, Ill. Corsets and women's and children's underwaists. 80,740; renewed Jan. 24, 1931.
Seattle Glove Company, Seattle, Wash. Gloves. 277,668; Nov. 25; Serial No. 302,287; published Aug. 26, 1930. Class 39.
Seminole Textile Co. (See Gottlieb, Isadore.)
Serra, Arthur, & Co., Chicago, Ill. Fresh pineapples. 277,702; Nov. 25; Serial No. 299,411; published Sept. 9, 1930. Class 46.
Shapleigh Hardware Company. (See Norvell-Shapleigh Hardware Company.)
Sherman, Roger L., Boston, Mass. Groceries. 33,126; renewed June 27, 1929.
Siegel, M. S., & Company, Inc., New York, N. Y. Undergarments. 277,748; Nov. 25; Serial No. 300,148; published Sept. 9, 1930. Class 39.
Siegel, M. S., & Company, Inc., New York, N. Y. Undergarments. 277,768; Nov. 25; Serial No. 300,150; published Sept. 9, 1930. Class 39.
Snipes, Arthur F., doing business as The Snipes Company, Oklahoma City, Okla. Motor-lubricating oils, greases, and lubricants. 277,816; Nov. 25; Serial No. 303,012; published Sept. 9, 1930. Class 15.
Société en Commandite par Actions Produits Alimentaires Louit Frères et Cie., to Produits Alimentaires Louit Freres & Cie., Societe Anonyme, Bordeaux, France, successor. Mustard, 35,568; renewed Dec. 11, 1930.
Southern Webbing Mills, Inc., Guilford County, near Greensboro, N. C. Overall elastic. 277,738; Nov. 25; Serial No. 302,649; published Sept. 2, 1930. Class 40.
Splitdorf Electrical Company, Newark, N. J. Covered electrical conductors. 277,840; Nov. 25; Serial No. 302,074; published July 15, 1930. Class 21.
Sprague, Warner & Company, Chicago, Ill. Beverage tea. 277,726; Nov. 25; Serial No. 299,736; published Sept. 9, 1930. Class 46.
Spruce River Coal Company. (See Old Ben Coal Corporation, assignor.)
Stafford, S. S., Inc., New York, N. Y. Mucilage, adhesive paste, and glue. 277,788; Nov. 25; Serial No. 301,309; published Sept. 9, 1930. Class 5.
Standard Oil Company of New Jersey, Wilmington, Del. Lubricating oil. 277,765; Nov. 25; Serial No. 300,996; published Sept. 9, 1930. Class 15.
Standard School Company, Saint Louis, Mich. Coal furnaces. 277,856; Nov. 25. Class 34.
Stanley Works, The, New Britain, Conn. Rules. 277,718; Nov. 25; Serial No. 300,824; published Aug. 26, 1930. Class 26.
Stern, Merritt Co. Inc., New York, N. Y. Neckties. 277,814; Nov. 25; Serial No. 303,224; published Sept. 9, 1930. Class 39.
Stibium Products Company, The. (See Roessler & Hasslacher Chemical Company, The, assignor.)
Stinson Aircraft Corporation, Wayne, Mich. Airplanes. 277,776–7; Nov. 25; Serial Nos. 303,826–7; published Sept. 9, 1930. Class 19.
Stout, Charles B., doing business as Washington Flour Mill, Washington, Mo. Wheat flour. 277,719–20; Nov. 25; Serial Nos. 300,549–50; published Sept. 9, 1930. Class 46.
Stowe, Fuller & Co., Cleveland, assignor to The Massillon Refractories Company, Massillon, Ohio. Fire brick. 35,628; renewed Dec. 18, 1930.
Strathmore Paper Company, Mittineague, Mass. Writing and printing paper. 277,723; Nov. 25; Serial No. 300,038; published Sept. 9, 1930. Class 37.
Swan-Finch Oil Corporation. (See Cataract Refining and Manufacturing Company, assignor.)
Sweet, Orr & Co., Newburgh, to Sweet-Orr & Co. Inc., Wappingers Falls and New York, N. Y., successor. Sack coats. 35,449; renewed Nov. 20, 1930.
Swift and Company, Chicago, Ill. Fore quarters and hind quarters of fresh beef. 277,660; Nov. 25; Serial No. 256,552; published May 8, 1928. Class, 46.
Swift and Company, Chicago, Ill. Fore quarters and hind quarters of fresh beef. 277,661; Nov. 25; Serial No. 256,551; published Apr. 17, 1928. Class 46.
Taps Products, Inc. (See Schlesinger, Maurice F., assignor.)
Tebaut. (See Tibbits, Beatrice E.)
Teofani & Co., Limited, London, England. Cigarettes, cigars, smoking tobacco, and chewing tobacco. 80,449; renewed Dec. 20, 1930.
Testrite Instrument Company, New York, N. Y. Metal reflectors. 277,844; Nov. 25. Class 34.
Tibbits, Beatrice E., doing business as Tebaut, New York, N. Y. Corsets, corselets, girdles, etc. 277,664; Nov. 25; Serial No. 301,727; published Aug. 26, 1930. Class 39.
Tiencken, William N., Brooklyn, N. Y. Mechanical toys. 277,833; Nov. 25; Serial No. 302,654; published Sept. 9, 1930. Class 22.
Timme, E. F., & Son, New York, N. Y. Pile fabrics. 277,770; Nov. 25; Serial No. 303,978; published Sept. 9, 1930. Class 42.
Timme, E. F., & Son, New York, N. Y. Pile fabrics in the piece. 277,795; Nov. 25; Serial No. 303,495; published Sept. 9, 1930. Class 42.
Tracy, Olive L., doing business as National Auto Glass Specifications, Denver, Colo. Periodical publication. 277,709; Nov. 25; Serial No. 297,944; published Sept. 9, 1930. Class 38.
Tuttle & Bailey Manufacturing Company, New York, N. Y. Heating grilles. 277,785; Nov. 25; Serial No. 302,973; published Sept. 9, 1930. Class 34.
Underwear of Rayon, Inc., El Paso, Tex. Underwear, shirts, skirts, etc. 277,832; Nov. 25; Serial No. 302,659; published Sept. 9, 1930. Class 39.
Uneedapak Products Company, Brooklyn, N. Y. Coin-operated vending machines. 277,823; Nov. 25; Serial No. 302,703; published Sept. 9, 1930. Class 23.
Union Paint & Varnish Co., The. (See Raap, Robert R.)
United Chemical Company, Inc., Kansas City, Mo. Cleaning and polishing soap compound. 277,841; Nov. 25; Serial No. 301,134; published Sept. 9, 1930. Class 4.
United Globe Knitting Mills, Inc., Philadelphia, Pa. Knitted goods. 277,743; Nov. 25; Serial No. 301,313; published Aug. 26, 1930. Class 39.
United States Lime Products Corporation, San Francisco, Calif. Hydrated lime. 277,803; Nov. 25; Serial No. 303,617; published Sept. 9, 1930. Class 12.
U. S. Ring Traveler Company, Providence, R. I. Ring travelers. 277,859; Nov. 25. Class 23.
United States Rubber Company, New York, N. Y. Vehicle tires of rubber and fabric. 277,822; Nov. 25; Serial No. 302,918; published Sept. 9, 1930. Class 35.
Upper Peninsula Produce Company, doing business as H. & A. Bottling Company, Escanaba, Mich. Malt beverage. 277,796; Nov. 25; Serial No. 303,409; published Sept. 9, 1930. Class 48.
Van Camp Hardware & Iron Company, Indianapolis, Ind. Tools and machinery. 81,560; renewed Apr. 18, 1931.
Vaughan Knitting Company, The, Pottstown, Pa. Hosiery. 277,757; Nov. 25; Serial No. 293,757; published Feb. 18, 1930. Class 39.
Vendi-Cater, Inc., Williamsport, Pa. Vending machines. 277,791; Nov. 25; Serial No. 303,755; published Sept. 9, 1930. Class 23.
Victor Balata & Textile Belting Co., New York, N. Y. Solid woven cotton belt. 277,855; Nov. 25. Class 35.
Virginia Seed Service, Inc., Richmond, Va. Seed. 277,694; Nov. 25; Serial No. 302,661; published Sept. 9, 1930. Class 1.
Volcanite Products Co., Okemah, Okla. Cleaning compound. 277,811; Nov. 25; Serial No. 303,411; published Sept. 9, 1930. Class 4.
Wahl Company, The, Chicago, Ill. Fountain pens. 277,652; Nov. 25; Serial No. 287,513; published Sept. 9, 1930. Class 37.
Waltham Oil Burner Corporation, Waltham, Mass. Oil burners. 277,722; Nov. 25; Serial No. 300,094; published Sept. 9, 1930. Class 34.
Washington Flour Mill. (See Stout, Charles B.)
Weingarten, Isidor, New York, N. Y. Dresses, women's coats, suits, and hats, etc. 277,670; Nov. 25; Serial No. 302,422; published Aug. 26, 1930. Class 39.
Weller, J., Company, The, Oak Harbor, Ohio. Canned sauerkraut, tomato catsup, pickles, and chili sauce. 277,745; Nov. 25; Serial No. 301,221; published Sept. 9, 1930. Class 46.
Werk, Casimir L., jr., Cincinnati, Ohio. Office machines. 277,771; Nov. 25; Serial No. 303,929; published Sept. 9, 1930. Class 23.
Werner, R. D., doing business as Safety Carpet Underlay Co., New York, N. Y. Linings coated with rubber or other solutions. 277,845; Nov. 25. Class 50.
Williams, Bradford L., Philadelphia, Pa., to Bradford L. Williams, Camden, N. J. Cloth cleaning pads. 80,563; renewed Jan. 3, 1931.

Williamsport Narrow Fabric Co., Williamsport, Pa. Braids and bias bindings. 277,740; Nov. 25; Serial No. 302,521; published Sept. 2, 1930. Class 40.
Winter Garden Citrus Growers Association, Winter Garden, Fla. Oranges, lemons, grapefruit, etc. 81,563; renewed Apr. 18, 1931.
Winterhalder, M., & Hofmeier G. m. b. H., Neustadt, Germany, and New York, N. Y. Clocks, clock movements, and parts. 277,657; Nov. 25; Serial No. 282,329; published Sept. 9, 1930. Class 27.
Winter's Metallic Paint Company, Iron Ridge, Wis., to Winters Metallic Paint Company, East St. Louis, Ill. Metallic paints. 35,609; renewed Dec. 25, 1930.
Woodbury Shoe Mfg. Co., Derry, N. H. Boots, shoes, sandals, and slippers. 277,667; Nov. 25; Serial No. 302,264; published Aug. 26, 1930. Class 39.
Wuppermann, J. W., Angostura Bitters Agency, Inc., New York, N. Y. Ginger ale. 277,847; Nov. 25. Class 45.
Zarex Company, Inc., The, Boston, Mass. Chocolate syrup. 277,739; Nov. 25; Serial No. 302,561; published Sept. 9, 1930. Class 46.
"Zündapp" Ges. für den Bau von Spezialmaschinen m. b. H., Nuremberg, Germany. Explosion motors, pumps, injectors, etc. 277,651; Nov. 25; Serial No. 288,046; published Sept. 9, 1930. Class 23.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS

Aeppler, C. W., doing business as C. W. Aeppler Company, Oconomowoc, Wis. Comb Honey Wrapped in Cellophane. For Comb Honey. 38,271; Nov. 25.
Aeppler, C. W., doing business as C. W. Aeppler Company, Oconomowoc, Wis. Wrapped Comb Honey. For Comb Honey. 38,272; Nov. 25.
Aeppler, C. W., doing business as C. W. Aeppler Company, Oconomowoc, Wis. Comb Honey Individually Packed. For Comb Honey. 38,278; Nov. 25.
Aeppler, C. W., doing business as C. W. Aeppler Company, Oconomowoc, Wis. Comb Honey Separately Enclosed. For Comb Honey. 38,274; Nov. 25.
American Maid Flour Mills, Houston, Tex. Evangeline Flour. For Flour. 38,275; Nov. 25.
American Maid Flour Mills, Houston, Tex. American Maid Flour. For Flour. 38,276; Nov. 25.
American Maid Flour Mills, Houston, Tex. Chief Flour. For Flour. 38,277; Nov. 25.
Barmon Brothers Company, Inc., Buffalo, N. Y. Barmon Art Styled Frocks. For Women's Frocks. 38,278; Nov. 25.
Calamari, D., Company, Chicago, Ill. Forest Treats. For Pecans. 38,279; Nov. 25.
Chenango Knitting Company, Inc., Sherburne, N. Y. Mercedes Hosiery De Luxe. For Men's Hosiery. 38,280; Nov. 25.
Chenango Knitting Company, Inc., Sherburne, N. Y. Sherburne Hose. For Hosiery. 38,281; Nov. 25.
Cherokee Mills, also doing business as The Independent Flour Co., Nashville, Tenn. Independent Merchants are the Backbone of Our Country—Trade With Them. For Flour. 38,282; Nov. 25.
Courtois & Baril, Chicago, Ill. Spruce Beer. For Spruce Beer. 38,283; Nov. 25.
Deane Plaster Co., The, Yonkers, N. Y. Best—Next to You. For Plasters. 38,284; Nov. 25.
Doane, W. W., St. Louis, Mo. No. 664 Creamery Butter. For Butter. 38,285; Nov. 25.
Doane, W. W., St. Louis, Mo. No. 662 Creamery Butter. For Butter. 38,286; Nov. 25.
Doane, W. W., St. Louis, Mo. No. 661 Creamery Butter. For Butter. 38,287; Nov. 25.
Doane, W. W., St. Louis, Mo. No. 663 Creamery Butter. For Butter. 38,288; Nov. 25.
Downs, Helen E., doing business as The Imperial Nut Products, Los Angeles, Calif. Imperial Brand Salted in the Shell. For Peanuts and Almonds. 38,289; Nov. 25.
Gray Lithograph Company, The, New York, N. Y. Our Gang. For Playthings. 38,290; Nov. 25.
Grennan Bakeries, Inc., Chicago, Ill. Grennan Cookies. For Cookies. 38,291; Nov. 25.
Hansen's Chr., Laboratory, Inc., Little Falls, N. Y. Color Comparison Cards. For Booklet of Cards to Determine the Exact Shades of Butter. 38,292; Nov. 25.
Haserot Company, The, Cleveland, Ohio. Leelanau Brand Michigan Natural Red Sour Pitted Cherries. For Canned Red Sour Pitted Cherries. 38,293; Nov. 25.
Imperial Nut Products, The. (See Downs, Helen E.)
Independent Flour Co., The. (See Cherokee Mills.)
Kreuger Beverage Company, Newark, N. J. Kreuger's Sarsaparilla. For Beverage. 38,294; Nov. 25.
Kreuger Beverage Company, Newark, N. J. Kreuger's Lime Dry. For Beverage. 38,295; Nov. 25.
Kreuger Beverage Company, Newark, N. J. Kreuger's Cream Soda. For Beverage. 38,296; Nov. 25.
Lafayette, O. J., & Co. Ltd., Los Angeles, Calif. Lafayette Agua Caliente Hot Coffee Bottle. For Bottles Insulated with Cork and Asbestos for Holding Hot or Cold Beverages. 38,297; Nov. 25.
Louisville Milling Company, Minneapolis, Minn. Sonny South. For Buckwheat, Wheat, and Corn Pancake Flour. 38,298; Nov. 25.
Miller, Reinhold C., Oakland, Calif. Miller's Pop-Pi-Ya. For a Confection Composed of Blended Fruits. 38,299; Nov. 25.
Neighborhood Stores, Inc., San Francisco, Calif. Neighborhood Stores. For Canned Pears. 38,300; Nov. 25.
Perfection Equipment Co., Inc., St. Louis, Mo. Perfection Distilled Water. For Distilled Water. 38,301; Nov. 25.
Puritan Malt Extract Company, Milwaukee, Wis. Puritan Pure Malt Extract. For Malt Extract. 38,302; Nov. 25.
Root, A. I., Company, The, Medina, Ohio. Educational Letters. For Letters of the Alphabet and Numerals. 38,303; Nov. 25.
Rumidor Corporation, The, Weehawken, N. J. Keep Your Rumidor Loaded with Refills. For Smoker's Article for Flavoring and Moistening Cigars, Cigarettes, and Pipe Tobacco. 38,304; Nov. 25.
Schulze Baking Company, Chicago, Ill., and Kansas City, Mo. Holsum. For Bread. 38,305; Nov. 25.
Schulze Baking Company, Chicago, Ill., and Kansas City, Mo. Quaker. For Bread. 38,306; Nov. 25.
Schwefer, William, Chicago, Ill. Eat Schwefer's Coffee Cake. For Coffee Cake. 38,307; Nov. 25.
Standard Brands Incorporated, New York, N. Y. Royal. For Gelatin Dessert. 38,308; Nov. 25.
Standard Brands Incorporated, New York, N. Y. Club Car. For Coffee. 38,309; Nov. 25.
Surlow, Sam D., West Allis, Wis. Pay-Roll. For Overalls. 38,310; Nov. 25.
Transue & Williams Steel Forging Corporation, Alliance, Ohio. Nirosta Ware. For Kitchen Ware and Food Service Equipment. 38,311; Nov. 25.
Ulmer Laboratories, Minneapolis, Minn. Vari-Chlor-Ose. For Medicinal Preparation for the Treatment of Varicose Veins. 38,312; Nov. 25.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS

Cream of Wheat Corporation, The, Minneapolis, Minn. You've Given Her the Biggest Thing of All. For Wheat Breakfast Food. 12,824; Nov. 25.
Dependable Merchants System Stores. (See Nash-Finch Company.)
Gayou, A. W., doing business as The Gayou Sales Company, St. Louis, Mo. Buster Brown. For Shoes. 12,825; Nov. 25.
Nash-Finch Company, doing business as Dependable Merchants System Stores, Minneapolis, Minn. Dependable Merchants System. For Advertising Food Products. 12,826; Nov. 25.
Pruden, Harry B., De Land, Fla. Ant Ollo. For a Preparation for Killing Ants. 12,827; Nov. 25.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

A—B—C Mfg. Co., Quincy, Ill. Atomizing nozzle. 305,598; Nov. 25. Class 13.
Aga Auto Lamp Company, Inc., Amesbury, Mass. Flood lamps and spot lamps. 306,038; Nov. 25. Class 21.
Ajax Lock Corporation, New York, N. Y. Door and window locks. 306,757–8; Nov. 25. Class 25.
Aldrich, Clarence B., doing business as Aldrich & Aldrich, Chicago, Ill. Women's wearing apparel. 285,490; Nov. 25. Class 39.
American Art Works, Inc., The, Coshocton, Ohio. Serving trays. 304,851; Nov. 25. Class 13.
American Coal & Wood Co. (See Soulé, D. Irene.)

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

American Lead Pencil Company, New York, N. Y. Pencils. 306,551; Nov. 25. Class 37.
American Steel and Wire Company of New Jersey, The, Cleveland, Ohio; Chicago, Ill.; Pittsburgh, Pa.; New York, N. Y.; Worcester, Mass.; and Hoboken, N. J. Rail bonds. 306,122; Nov. 25. Class 21.
Anti-Erozon Laboratories, Inc., Miami, Fla. Tooth paste. 304,305; Nov. 25. Class 6.
Astier, Pierre P. P., Paris, France. Vaccine. 306,877; Nov. 25. Class 6.
Badger Paper Mills, Inc., Peshtigo, Wis. Writing and printing paper. 306,806; Nov. 25. Class 37.
Barber, Frank W., doing business as Frank W. Barber Company, Stockton, Calif. Antiseptic liquids. 301,149; Nov. 25. Class 6.
Battle Creek Food Company, The, Battle Creek, Mich. Preparation for making a food beverage. 305,475; Nov. 25. Class 46.
Baum, Ernest, doing business as Ernest Baum Products Company, Los Angeles, Calif. Permanent-waving machines and pads. 304,936; Nov. 25. Class 44.
Baum, Ernest, doing business as Ernest Baum Products Company, Los Angeles, Calif. Permanent-waving pads, curlers, protectors, and heaters. 304,937; Nov. 25. Class 44.
Beehler, William, Incorporated, Baltimore, Md. Umbrellas and umbrella holders and cases. 298,526; Nov. 25. Class 41.
Ben-Burk, Incorporated, Boston, Mass. Malt syrup. 305,958; Nov. 25. Class 46.
Bendix Brake Company, Chicago, Ill. Brake-testing apparatus. 281,895; Nov. 25. Class 26.
Berrien Laboratories, Inc., St. Joseph, Mich. Medicated chewing gum. 294,107; Nov. 25. Class 6.
Blair, Camille C., doing business as Ruffles Co., West Los Angeles, Calif. Dolls. 304,181; Nov. 25. Class 22.
Blanchard, Owen W., Chicago, Ill. Portable bowling alleys. 301,238; Nov. 25. Class 22.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics. 306,850; Nov. 25. Class 42.
Bonsall, James W., Detroit, Mich. Electrically-illuminated display and advertising signs. 305,308; Nov. 25. Class 21.
Braeburn of Rochester, Inc., Rochester, N. Y. Men's suits, coats, vests, etc. 297,466; Nov. 25. Class 39.
Brandler, Joseph B., New York, N. Y. Pile fabrics and transparent velvets. 303,833; Nov. 25. Class 42.
British Isinglass Company Limited, The, Grimsby, England. Adhesives. 305,030; Nov. 25. Class 5.
Burke Golf Company, Newark, Ohio. Golf balls. 295,013; Nov. 25. Class 22.
C. M. R. Mfg. Co. (See Rosenbaum, Charles M.)
Canfield, A. J., Co., Chicago, Ill. Maltless carbonated beverages. 303,465; Nov. 25. Class 45.
Caro Cloth Corporation, Wilmington, Del., and Carolina, R. I. Piece goods. 305,653; Nov. 25. Class 42.
Carrasco, Vincent, doing business as Tosfer Laboratory, New York, N. Y. Preparation for use in the treatment of whooping cough. 304,365; Nov. 25. Class 6.
Caswell, Geo. W., Company, San Francisco, Calif. Coffee. 306,168; Nov. 25. Class 46.
Cauchois Coffee Company, New York, N. Y. Tea. 273,392; Nov. 25. Class 46.
Celanese Corporation of America, New York, N. Y. Yarns or threads. 305,696; Nov. 25. Class 43.
Cerv-Rite Paint Company. (See Condie-Bray Glass & Paint Co.)
Chaiken, H., & Sons, Philadelphia, Pa. Dresses, boys' wash suits, and sweaters. 297,238; Nov. 25. Class 39.
Chicago Flexible Shaft Company, Chicago, Ill. Electric clocks. 306,691; Nov. 25. Class 27.
Chicago Musical Instrument Company, Chicago, Ill. Brass band instruments, clarinets, and string instruments. 305,155; Nov. 25. Class 36.
Chock-Horowitz Company, New York, N. Y. Pajamas. 292,252; Nov. 25. Class 39.
Cincinnati Milling Machine Company, The, Cincinnati, Ohio. Machine tools. 291,266; Nov. 25. Class 23.
Clark, D. L., Company, The, Pittsburgh, Pa. Candy. 304,271; Nov. 25. Class 46.
Colgate-Palmolive-Peet Company, Chicago, Ill. Soap. 306,557; Nov. 25. Class 4.
Colorado Fuel and Iron Company, The, Denver, Colo. Wire fence. 306,693; Nov. 25. Class 13.
Colorado Portland Cement Company, The, Denver, Colo. Hydraulic cement. 287,453; Nov. 25. Class 12.
Comfort Manufacturing Co., Chicago, Ill. Shaving creams. 306,768; Nov. 25. Class 4.
Condie-Bray Glass & Paint Co., doing business as Cerv-Rite Paint Company, St. Louis, Mo. Paints, paint enamels, and varnishes. 306,052; Nov. 25. Class 16.
Conestoga Corporation, The, Bethlehem, Pa. Tops. 296,585; Nov. 25. Class 22.
Cordage Fiber Company, Inc., San Bernardino, Calif. Bakers' preparation. 299,829; Nov. 25. Class 46.
Couch Bros. Manufacturing Co., Hast Point, Ga. Collars, collar pads, and backbands for animals. 291,818; Nov. 25. Class 3.
Crescent Shoe Company, New York, N. Y. Leather shoes. 303,502; Nov. 25. Class 39.
Dan-D-Shyne Polish Company. (See Danielson, G. C.)
Danielson, G. C., doing business as Dan-D-Shyne Polish Company, Minneapolis, Minn. Polish. 306,233; Nov. 25. Class 16.
Deane Plaster Co., The, Yonkers, N. Y. Plasters for the treatment of coughs, colds, etc. 305,805; Nov. 25. Class 6.
De Nobili Cigar Company, New York, N. Y. Cigars. 304,402; Nov. 25. Class 17.
Devitt, William H., doing business as Paul J. Devitt, Philadelphia, Pa. Paints, varnish, paint enamels, etc. 305,699; Nov. 25. Class 16.
Duart Permanent Wave Co. (See Pacific Hair Goods Co. Inc.)
Dyal Produce Corporation, New York, N. Y. Seed potatoes. 305,926; Nov. 25. Class 1.
Eastman Kodak Company, Rochester, N. Y. Motion-picture film. 306,731; Nov. 25. Class 26.
Electrad, Inc., New York, N. Y. Printed publications. 300,700; Nov. 25. Class 38.
Ellis-Foster Company, Montclair, N. J. Synthetic resin compositions. 299,693; Nov. 25. Class 6.
Equitable Powder Manufacturing Co., The, East Alton, Ill. Flaring signal fuzees. 292,526; Nov. 25. Class 9.
Ethylizer Corp. of America. (See Ostrander, Guy L.)
Everseal Manufacturing Co. Inc., New York, N. Y. Compound for making cement waterproof. 306,262; Nov. 25. Class 12.
Fashion, Limited, New York, N. Y. Men's furnishings. 293,808. Nov. 25. Class 39.
Fay & King, New York, N. Y. Hosiery. 262,514; Nov. 25. Class 39.
Fincke, Clara K., Kansas City, Kans. Work holders. 301,608; Nov. 25; Class 40.
Fisk Manufacturing Company, West Frankfort, Ill. Liniment. 303,806; Nov. 25. Class 6.
Fitzgerald Manufacturing Company, The, Torrington, Conn. Electric mixing and beating devices. 304,655; Nov. 25. Class 21.
French Vanilla Products Co., Inc., New York, N. Y. Vanilla sugar. 304,765; Nov. 25. Class 46.
Fretwell Cracker Company, Minneapolis, Minn. Soda crackers. 306,235; Nov. 25. Class 46.
Frigidaire Corporation, Dayton, Ohio. Ice trays used as refrigerating units. 306,177; Nov. 25. Class 31.
Garcia, Vina & Luna, doing business as Garcia Y. Vina, Tampa, Fla. Cigars. 306,236; Nov. 25. Class 17.
General Paint & Varnish Co., doing business as Invader Paint and Varnish Co., Chicago, Ill. Waterproof and quick-drying polish. 301,894; Nov. 25. Class 16.
Glass, Henry, & Co., New York, N. Y. Cotton, silk and cotton, etc., piece goods. 306,489–90; Nov. 25. Class 42.
Goldenberg, Morton H., doing business as Goldenberg's, Washington, D. C. Mattresses. 306,492; Nov. 25. Class 32.
Goldschmidt, Louise H., Bellefontaine, Ohio. Salve and ointment. 306,439; Nov. 25. Class 6.
Gordon & Ferguson, Inc., St. Paul, Minn. Hats and caps. 289,716; Nov. 25. Class 39.
Gross, Benjamin & Edward J., Co. Inc., New York, N. Y. Finger rings and mountings therefor. 305,858; Nov. 25. Class 28.
Harper, Harry, Minneapolis, Minn. Coffee urns. 306,601; Nov. 25. Class 13.
Herzfeld, Sidney Z., doing business as The Polly Cloth Co., Birmingham, Ala. Unimpregnated dust cloths. 289,927–30; Nov. 25. Class 29.
Hoe, Robert, Poughkeepsie, N. Y. Electrically-driven power unit. 300,944; Nov. 25. Class 21.
Hoyt, F. M., Shoe Company, Manchester, N. H. Boots, shoes, and slippers. 304,559; Nov. 25. Class 39.
Hygienic Wire Works, Ltd., London, England. Bird cages. 304,772; Nov. 25. Class 2.
Insurance Forms Association, Inc., The, San Francisco, Calif. Mailing and correspondence envelopes, writing paper, blank post cards, etc. 301,928; Nov. 25. Class 37.
International Agricultural Corporation, New York, N. Y. Cleansing compound. 305,756; Nov. 25. Class 4.
Invader Paint and Varnish Co. (See General Paint & Varnish Co.)
Johnson & Johnson, New Brunswick, N. J. Antiseptic disinfectant. 306,778; Nov. 25. Class 6.
Kent Brush Sales Corporation, New York, N. Y. Brushes. 290,256; Nov. 25. Class 29.
Knox Hat Company, Inc., New York, N. Y. Hats for men. 305,484; Nov. 25. Class 39.
Lance Packing Company, Charlotte, N. C. Sandwiches. 306,270; Nov. 25. Class 46.
Lefkowits-Elias Company, New Brunswick, N. J. Tomato catsup, canned vegetables and fish, etc. 302,638; Nov. 25. Class 46.
Livingston, Dr. Margaret, Co., Chicago, Ill. Liver and bowel stimulant tablets, medicated hygienic wash tablets, pile ointment, etc. 298,191; Nov. 25. Class 6.
Lundie Engineering Corporation, The, New York, N. Y. Railway tie plates. 302,543; Nov. 25. Class 14.
Lynch-Clarisey Company, Chicago, Ill. Lubricating oils and greases. 299,449; Nov. 25. Class 15.
Magnetic Cutlery Company, Philadelphia, Pa. Sets of manicure implements. 304,873; Nov. 25. Class 44.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Mahoning Drug Club, Youngstown, Ohio. Maltless beverages. 306,450; Nov. 25. Class 45.
Mansur, Edward E., doing business as The Man Chemical Co., Jefferson City, Mo. Ointment. 306,451; Nov. 25. Class 6.
Marcum, James, Alba, Mo. Vegetable compound used in the treatment of neuralgia, bunions, etc. 306,957; Nov. 25. Class 6.
Marquardt Company, Milwaukee, Mis. Convertible beds. 306,276; Nov. 25. Class 32.
Mendenhall-Graham Company, Duluth, Minn. Mackinaw coats, blazers, pants, etc. 305,233; Nov. 25. Class 39.
Mifflin Chemical Corporation, Philadelphia, Pa. Uterine sedative. 307,004; Nov. 25. Class 6.
Miller, J., & Son, Baltimore, Md. Neckwear. 304,084; Nov. 25. Class 39.
Miller, William G., doing business as William Miller Productions, Hollywood, Calif. Motion-picture films. 306,197; Nov. 25. Class 26.
Model Brassiere Co. Inc., Brooklyn, N. Y. Combination garments. 305,581; Nov. 25. Class 39.
Monarch Manufacturing Company, Milwaukee, Wis. Outing clothing. 305,718–19; Nov. 25. Class 39.
Montgomery Ward & Co., Incorporated, Chicago, Ill. Automobile ignition systems. 291,780; Nov. 25. Class 21.
Mountain Copper Co. Ltd., The, San Francisco, Calif. Fertilizer. 303,750; Nov. 25. Class 10.
Mullen, Hugh, doing business as Sylgar Products Company, New York, N. Y. Medicinal preparation. 307,008; Nov. 25. Class 6.
Munn, W. C., Company, Houston, Tex. Hats, coats, and dresses. 291,286; Nov. 25. Class 39.
Naamlooze Vennootschap Wollenstoffenfabrieken van H. Eras & Zonen, Tilburg, Netherlands. Woolen blankets. 300,741; Nov. 25. Class 42.
Nakahara, Sadayosbi, doing business as Namiki Manufacturing Co., New York, N. Y. Fountain pens and mechanical pencils. 306,198; Nov. 25. Class 7.
Namiki Manufacturing Co. (See Nakahara, Sadayoshi.)
National Electric Products Corporation, Pittsburgh, Pa. Wires and cables for electrical use. 294,645; Nov. 25. Class 21.
National Fluxrite Co., Ltd., San Leandro, Calif. Metal fluxing preparation. 305,237; Nov. 25. Class 6.
Nellis & Wiedenbeck, Inc., New York, N. Y. Publication. 303,973; Nov. 25. Class 38.
Newman, Milford, doing business as The Newman Co., New York, N. Y. Infants' wear. 304,291; Nov. 25. Class 39.
North-Mellornay Furniture Co., Kansas City, Mo. Ice boxes, refrigerators, and water filters. 306,801; Nov. 25. Class 31.
Omega Gamma Kappa Sorority, Long Beach, Calif. Sorority pins, emblems, badges, and finger rings. 289,202; Nov. 25. Class 28.
Oppelt, C. A., Kane, Pa. Medicinal preparation. 306,833; Nov. 25. Class 6.
Ostrander, Guy L., doing business as Ethylizer Corp. of America, Dallas, Tex. Liquid for eliminating detonation from gases. 290,519; Nov. 25. Class 6.
Pacific Hair Goods Co. Inc., doing business as Duart Permanent Wave Co., San Francisco, Calif. Electrical hair dryers. 306,143; Nov. 25. Class 44.
Painter, Harry K., Cincinnati, Ohio. Apparatus for mixing and dispensing soda-fountain drinks and the like. 296,816; Nov. 25. Class 23.
Palmer, Frank L., Hartford, Conn. Hemorrhoidal ointment. 306,743; Nov. 25. Class 6.
Pepe, Frank, Macaroni Company, The, Waterbury, Conn. Macaroni. 306,659; Nov. 25. Class 46.
Polifina Products Co. (See Schelcher, George.)
Polly Cloth Co., The. (See Herzfeld, Sidney Z.)
Pulveral Company, Inc., New York, N. Y. Medicinal preparation. 306,539; Nov. 25. Class 6.
Quartetti, Leonard, doing business as Speer Products Company, Chicago, Ill. Candy laxatives. 290,971; Nov. 25. Class 6.
Radium Appliance Company, Los Angeles, Calif. Therapeutical compresses or pads. 305,014; Nov. 25. Class 44.
Real Sport Clothing Co., Philadelphia, Pa. Breeches. 304,106; Nov. 25. Class 39.
Red Top Malt Company, Cincinnati, Ohio. Malt syrups for extracts. 306,664–5; Nov. 25. Class 46.
Reis, Robert, & Company, New York, N. Y. Underwear. 305,828; Nov. 25. Class 39.
Rice-Stix Dry Goods Co., St. Louis, Mo. Cotton goods. 305,907; Nov. 25. Class 42.
Rosenbaum, Charles M., doing business as C. M. R. Mfg. Co., New York, N. Y. Medical preparation. 304,514; Nov. 25. Class 6.
Ross, F. H., & Co., Charlotte, N. C. Laundry sour. 306,965; Nov. 25. Class 6.
Rothschild, Maurice, Incorporated, Chicago, Ill. Women's suits. 203,924; Nov. 25. Class 39.
Rubenstein, Frank, & Co., Inc., New York, N. Y. Dresses, coats, and suits. 298,117; Nov. 25. Class 39.
Ruffles Co. (See Blair, Camille C.)
Ru-Go Laboratories, Charlotte, N. C. Preparation for removing hair. 306,288; Nov. 25. Class 6.
Sager, Solomon M., Evanston, Ill. Fountain pens. 297,937; Nov. 25. Class 37.
Sallusto, Giustino, doing business as The Sulphoradion Company, Brooklyn, N. Y. Scientific preparation for high blood pressure. 306,837; Nov. 25. Class 6.
Sauer, John W., doing business as Secure-Lab., San Francisco, Calif. Liquid preparation applied to metal surfaces. 299,732; Nov. 25. Class 6.
Schelcher, George, doing business as The Polifina Products Co., Sacramento, Calif. Cleanser for nickel, marble, etc. 305,145; Nov. 25. Class 4.
Schmidt, A. O., doing business as A. O. Schmidt Co., San Francisco, Calif. Vaginal suppositories. 305,729; Nov. 25. Class 6.
Schnefel Brothers, Inc., Newark, N. J. Tweezers, nippers, cuticle pushers, etc. 305,494; Nov. 25. Class 44.
Schneider, Ph. Brewing Co., Trinidad, Colo. Malt beverages. 269,429; Nov. 25. Class 48.
Schrafft, W. F., & Sons Corporation, Boston, Mass. Chocolates and candies. 306,146–7; Nov. 25. Class 46.
Schultz, Baujan & Company, Beardstown, Ill. Livestock and poultry feeds, wheat middlings, etc. 300,444; Nov. 25. Class 46.
Secure-Lab. (See Sauer, John W.)
Simmons, C. F., Medicine Co., Incorporated, New York, N. Y. Laxative medicine. 305,196; Nov. 25. Class 6.
Simplex Shoe Manufacturing Company, Milwaukee, Wis. Boots, shoes, and slippers. 301,306; Nov. 25. Class 39.
Skinner, N. H., Co., Inc., Taunton, Mass. Hair nets. 290,225; Nov. 25. Class 42.
Smith, Glenn A., Los Angeles, Calif. Receptacles for containing merchandise. 300,991; Nov. 25. Class 2.
Société à Responsabilité Limitée Rodier, Paris, France. Piece goods. 306,148; Nov. 25. Class 42.
Sommerfeld, Otto C., jr., doing business as Soprim Soap Co., Minneapolis, Minn. Hand soap. 306,783; Nov. 25. Class 4.
Soprim Soap Co. (See Sommerfeld, Otto C., jr.)
Soulé, D Irene, doing business as American Coal & Wood Co., Oakland, Calif. Coal. 305,766; Nov. 25. Class 1.
Specialty Candy Co., Inc., New Orleans, La. Candy. 306,840; Nov. 25. Class 46.
Speer Products Company. (See Quartetti, Leonard.)
Stafford County Flour Mills Company, Hudson, Kans. Hard-wheat flour. 305,545; Nov. 25. Class 46.
Stanco Incorporated, New York, N. Y. Polish. 305,294; Nov. 25. Class 16.
Stark Bros. Ribbon Corporation, New York, N. Y. Textile ribbons. 305,627–8; Nov. 25. Class 42.
Sterling Motion Picture Apparatus Corporation, New York, N. Y. Sound-reproducing machines of the phonograph type. 302,082; Nov. 25. Class 36.
Stern Brothers, New York, N. Y. Aviation and sports clothes. 305,148; Nov. 25. Class 39.
Stimpson, Edwin B., Company, Brooklyn, N. Y. Metal rivets, washers, and lacing studs. 272,678; Nov. 25. Class 13.
Stone, Louise B., Chicago, Ill. Light-weight shampoo soap. 306,475; Nov. 25. Class 4.
Strauss-Eckardt Co. Inc., New York, N. Y. Dolls and doll velocipede sets. 261,995; Nov. 25. Class 22.
Sulphoradion Company, The. (See Sallusto, Giustino.)
Sylgar Products Company. (See Mullen, Hugh.)
Tennessee Products Corporation, Nashville, Tenn. Antifreeze mixtures. 305,421; Nov. 25. Class 6.
Texas Company, The, New York, N. Y. Petroleum products. 305,591; Nov. 25. Class 15.
Thermax Corporation, Chewelah, Wash. Insulating building board. 306,304; Nov. 25. Class 12.
Thermo Service, Inc., New York, N. Y. Heating radiators. 306,074; Nov. 25. Class 34.
Toledo Parlor Furniture Company, The, Toledo, Ohio. Beds, davenports, couches, etc. 305,428; Nov. 25. Class 32.
Tosfer Laboratory. (See Carrasco, Vincent.)
Traina, A., Gowns, Inc., New York, N. Y. Gowns. 305,885; Nov. 25. Class 39.
Tricolator Company, Inc., New York, N. Y. Coffee infusers. 305,631; Nov. 25. Class 13.
Union Oil Company of California, Los Angeles, Calif. Lubricating greases. 305,255; Nov. 25. Class 15.
Utica Cutlery Company, Utica, N. Y. Base-metal cutlery. 295,911; Nov. 25. Class 23.
Van Ameringen-Haebler Inc., New York, N. Y. Basic flavoring compounds. 289,772; Nov. 25. Class 46.
Van Valkenburg, Wallace L., Williamsett, Mass. Vehicle hand grips for levers. 305,834; Nov. 25. Class 19.
Verdi, Larry, Ossining, N. Y. Bleaching solution for straw hats. 305,913; Nov. 25. Class 6.
Vina, Garcia Y. (See Garcia, Vina & Luna.)
Waldron, Fred, L., Ltd., Honolulu, Hawaii, and San Francisco, Calif. Rice. 305,949; Nov. 25. Class 46.
Webster Furniture Manufacturing Co., Tacoma, Wash. Upholstered furniture. 302,874–5; Nov. 25. Class 32.
Weck, Edward, & Son, Incorporated, Brooklyn, N. Y. Surgical cutting instruments, forceps, clamps, etc. 306,158; Nov. 25. Class 44.
Wilder Strong Co., Monroe, Mich. Disc cultivators. 306,472; Nov. 25. Class 28.
Williams, Edgar R., Washington, D. C. Salve. 306,909; Nov. 25. Class 6.
Willis, Charles L., New York, N. Y. Rolled asbestos woven cloth packing. 305,950; Nov. 25. Class 35.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Willis, Charles L., New York, N. Y. Plaited asbestos packing. 306,215; Nov. 25. Class 35.
Willson Products, Inc., Reading, Pa. Ophthalmic protection lenses. 305,886; Nov. 25. Class 26.
Winsome Hat Co., Inc., New York, N. Y. Hats. 305,552; Nov. 25. Class 39.
Worthy Manufacturing Company, Chicago, Ill. Children's play suits and overalls. 297,111; Nov. 25. Class 39.
Zollinger & Schroth, Inc., New York, N. Y. Silk piece goods. 306,915; Nov. 25. Class 42.
Zollinger & Schroth, Inc., New York, N. Y. Silk piece goods. 306,917; Nov. 25. Class 42.
"Zündapp" Ges. für den Bau von Spezialmaschinen m. b. H., Nuremberg, Germany. Spark plugs, electric motors, storage batteries, etc. 285,048; Nov. 25. Class 21.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Old Ben Coal Corporation. 277,704; Nov. 25; Serial No. 299,275; published Sept. 9, 1930.
Coal. Philadelphia and Reading Coal and Iron Company. 277,781–2; Nov. 25; Serial Nos. 303,578–9; published Sept. 9, 1930.
Coal. Philadelphia and Reading Coal and Iron Company. 277,787; Nov. 25; Serial No. 301,774; published Sept. 9, 1930.
Earth, Diatomaceous. A. C. Ochs Brick & Tile Co. 277,710; Nov. 25; Serial No. 297,615; published Sept. 9, 1930.
Leather, Calf. American Hide and Leather Company. 277,787; Nov. 25; Serial No. 301,774; published Sept. 9, 1930.
Seed. Virginia Seed Service, Inc. 277,694; Nov. 25; Serial No. 302,661; published Sept. 9, 1930.

CLASS 2

Bottles, Paper. American Paper Bottle Company. 277,654; Nov. 25; Serial No. 283,538; published Sept. 9, 1930.
End pieces for cores, Metal. Brown Company. 277,825; Nov. 25; Serial No. 301,093; published Sept. 9, 1930.
Pails, Paper. Menasha Products Company. 277,849; Nov. 25.
Trays for trucks, Package. American Pulley Company. 277,655; Nov. 25; Serial No. 283,427; published Sept. 9, 1930.

CLASS 3

Bags and brief cases, Traveling. National Brief Case Mfg. Co. 277,786; Nov. 25; Serial No. 302,907; published Sept. 9, 1930.
Bags, suitcases, hand bags, etc., Traveling. Dobbs & Co. 277,725; Nov. 25; Serial No. 299,901; published Sept. 9, 1930.

CLASS 4

Cleaning compound. Volcanite Products Co. 277,811; Nov. 25; Serial No. 303,411; published Sept. 9, 1930.
Cleaning pads, Cloth. B. L. Williams. 80,563; renewed Jan. 3, 1931.
Soap. I. Davis. 277,759; Nov. 25; Serial No. 292,660; published Sept. 9, 1930.
Soap. Los Angeles Soap Co. 35,741; renewed Jan. 8, 1931.
Soap compound, Cleaning and polishing. United Chemical Company. 277,841; Nov. 25; Serial No. 301,134; published Sept. 9, 1930.

CLASS 5

Composition for sealing punctures. W. A. Nicholson. 277,843; Nov. 25.
Mucilage, adhesive paste, and glue. S. S. Stafford, Inc. 277,788; Nov. 25; Serial No. 301,309; published Sept. 9, 1930.

CLASS 6

Antiseptic. Samuel Cabot Incorporated. 81,382; renewed Apr. 4, 1931.
Baking powder and laundry starch. S. Hamill Company. 81,213; renewed Mar. 14, 1931.
Chemical substance. Roessler & Hasslacher Chemical Company. 79,933; renewed Oct. 18, 1930.
Cream, Cucumber. H. Mora. 277,848; Nov. 25.
Glycolytic extract of pancreas. Fairchild Bros. & Foster. 80,114; renewed Nov. 8, 1930.
Hair dressing and tonic. Giroux Manufacturing Company. 80,277; renewed Nov. 29, 1930.
Medicines, Proprietary. S. B. Leonardi & Co. 35,637; renewed Dec. 25, 1930.
Shampoo powder. R. G. Edwards. 79,966; renewed Oct. 25, 1930.
Silicate of soda. Philadelphia Quartz Company. 80,943–9; renewed Feb. 14, 1931.
Silicate of soda. Philadelphia Quartz Company. 80,950; renewed Feb. 14, 1931.
Silicate of soda. Philadelphia Quartz Company. 81,099; renewed Feb. 28, 1931.
Silicate of soda. Philadelphia Quartz Company. 81,353; renewed Mar. 28, 1931.
Starch. National Starch Company. 81,092–3; renewed Feb. 28, 1931.
Tablet, Cathartic. M. F. Schlesinger. 80,874; renewed Feb. 7, 1931.
Twine. Independent Druggists' Alliance Distributing Co. 277,774; Nov. 25; Serial No. 303,893; published Sept. 9, 1930.

CLASS 8

Pipes. Independent Druggists' Alliance Distributing Co. 277,682; Nov. 25; Serial No. 303,894; published Sept. 9, 1930.

CLASS 9

Firecrackers. V. E. Scott. 277,789; Nov. 25; Serial No. 304,073; published Sept. 9, 1930.

CLASS 10

Fertilizers. Plant Food Company. 277,688; Nov. 25; Serial No. 303,487; published Sept. 9, 1930.

CLASS 12

Brick, Fire. Stowe, Fuller & Co. 35,628; renewed Dec. 18, 1930.
Bricks and tiles and blocks made of fire-brick material, Fire. Greenpoint Fire Brick Co. 80,515; renewed Jan. 3, 1931.
Cement, lime, and cement and lime mixtures. Riverton Lime Company. 277,836–7; Nov. 25; Serial Nos. 302,477–8; published Sept. 9, 1930.
Cork board, cork pipe covering, etc. Cork Insulation Co. Inc. 277,830; Nov. 25; Serial No. 302,769; published Sept. 9, 1930.
Floor tiling, Composition. Dreadnought Flooring Company. 80,938; renewed Feb. 14, 1931.
Lime, Hydrated. United States Lime Products Corporation. 277,803; Nov. 25; Serial No. 303,617; published Sept. 9, 1930.
Paneling material for walls, cabinets, or the like. Koken Companies. 277,835; Nov. 25; Serial No. 302,581; published Sept. 9, 1930.
Panels, Wall and ceiling. Merchant Trading Company. 277,842; Nov. 25; Serial No. 301,051; published Sept. 9, 1930.
Slate slabs, Structural. Keenan Structural Slate Company. 277,749; Nov. 25; Serial No. 299,392; published Sept. 9, 1930.

CLASS 13

Hardware. Norvell-Shapleigh Hardware Company. 81,290; renewed Mar. 21, 1930.
Roller supports, Adjustable shade-. General Window Equipment Corporation. 277,824; Nov. 25; Serial No. 301,896; published Sept. 9, 1930.
Wire screen cloth. New York Wire Cloth Company. 80,145; renewed Nov. 8, 1930.

CLASS 14

Aluminum-base alloys. Apex Smelting Company. 277,698; Nov. 25; Serial No. 303,313; published Sept. 9, 1930.
Castings. Chain Belt Company. 277,685; Nov. 25; Serial No. 303,627; published Sept. 9, 1930.

CLASS 15

Gasoline, lubricating oils, and greases. Irving Oil Company. 277,754; Nov. 25; Serial No. 295,796; published Sept. 9, 1930.
Grease, Lubricating and yarn. Cataract Refining and Manufacturing Company. 80,268; renewed Nov. 29, 1930.
Lubricant, Lubricating. Rust-Go Manufacturing Co. 277,834; Nov. 25; Serial No. 302,643; published Sept. 9, 1930.
Oil, Lubricating. Standard Oil Company of New Jersey. 277,765; Nov. 25; Serial No. 300,996; published Sept. 9, 1930.
Oils, greases, and lubricants, Motor-lubricating. A. F. Snipes. 277,816; Nov. 25; Serial No. 303,012; published Sept. 9, 1930.
Petroleum, Refined. Atlantic Refining Company. 80,019–20; renewed Nov. 1, 1930.
Petroleum, Refined. Atlantic Refining Company. 80,399; renewed Dec. 20, 1930.

CLASS 16

Naphtha. American Mineral Spirits Co. 277,758; Nov. 25. Serial No. 292,703; published Sept. 9, 1930.

Paint, varnish, lacquer, and traffic paint, Ready-mixed. R. R. Raap. 277,829; Nov. 25; Serial No. 302,792; published Sept. 9, 1930.
Paints, Metallic. Winter's Metallic Paint Company. 35,669; renewed Dec. 25, 1930.

CLASS 17

Cigarettes, cigars, smoking and chewing tobacco. Teofani & Co. 80,449; renewed Dec. 20, 1930.
Cigarettes, Turkish. Prospero De Nobili & Co. 79,193; renewed Aug. 16, 1930.
Cigars. Cuesta, Rey & Co. 80,803; renewed Jan. 31, 1931.

CLASS 19

Airplanes. Stinson Aircraft Corporation. 277,776–7; Nov. 25; Serial Nos. 303,826–7; published Sept. 9, 1930.
Automobile trailers. Globe-Trotter, Inc., The. 277,779; Nov. 25; Serial No. 303,808; published Sept. 9, 1930.
Radiators for internal-combustion engines. McQuay Radiator Corporation. 277,857; Nov. 25.

CLASS 21

Armatures and armature-testing devices. Armature & Ignition Supply Co. 277,762; Nov. 25; Serial No. 283,320; published Sept. 9, 1930.
Electric burglar alarms and parts thereof. American Electrical Company. 277,763; Nov. 25; Serial No. 280,372; published Sept. 9, 1930.
Electrical conductors, Covered. Splitdorf Electrical Company. 277,840; Nov. 25; Serial No. 302,074; published July 15, 1930.
Lighters, Electric cigar. Casco Products Corporation. 277,750; Nov. 25; Serial No. 299,041; published Sept. 9, 1930.
Loud-speakers, Radio. Jensen Radio Manufacturing Company. 277,819–20; Nov. 25; Serial Nos. 302,899–900; published Sept. 9, 1930.
Loud-speakers, Radio. Jensen Radio Manufacturing Company. 277,828; Nov. 25; Serial No. 302,898; published Sept. 9, 1930.
Signs, Electric. Flasher Sales and Service Co. 277,818; Nov. 25; Serial No. 302,939; published Sept. 9, 1930.
Signs, Electrical. F. C. Reilly. 277,761; Nov. 25; Serial No. 289,291; published Sept. 9, 1930.
Terminal connectors. W. J. Hunter. 277,764; Nov. 25; Serial No. 277,112; published Sept. 9, 1930.

CLASS 22

Bait, Artificial. Enterprise Manufacturing Company. 277,752; Nov. 25; Serial No. 296,733; published Sept. 9, 1930.
Games. H. M. Fancher. 277,839; Nov. 25; Serial No. 302,242; published Sept. 9, 1930.
Sporting goods. Norvell-Shapleigh Hardware Company. 81,289; renewed Mar. 21, 1931.
Toys, Mechanical. W. N. Tiencken. 277,833; Nov. 25; Serial No. 302,654; published Sept. 9, 1930.

CLASS 23

Bit cones, Rotary rock-. Garber Tool Company. 277,727; Nov. 25; Serial No. 303,177; published Sept. 9, 1930.
Fire-extinguishing apparatus. General Fire Extinguisher Company. 80,118; renewed Nov. 8, 1930.
Grain blowers. Link Manufacturing Co. 277,712; Nov. 25; Serial No. 295,270; published Sept. 9, 1930.
Machines, Office. C. L. Werk, jr. 277,771; Nov. 25; Serial No. 303,929; published Sept. 9, 1930.
Motors, pumps, injectors, etc., Explosion. "Zündapp" Ges. für den Bau von Spezialmaschinen m. b. H. 277,651; Nov. 25; Serial No. 288,046; published Sept. 9, 1930.
Razors and blades. J. Holtz. 277,700; Nov. 25; Serial No. 292,935; published Sept. 9, 1930.
Razors, razor-blade holders, and razor blades, Safety. Ericsson Screw Machine Products Co. 277,780; Nov. 25; Serial No. 303,804; published Sept. 9, 1930.
Ring travelers. U. S. Ring Traveler Company. 277,859; Nov. 25.
Seeders and drills, Grain. La Crosse Plow Company. 35,445; renewed Nov. 13, 1930.
Shovels, tractor shovels, skimmers, etc., Power. Bay City Shovels, Inc. 277,775; Nov. 25; Serial No. 303,873; published Sept. 9, 1930.
Sweepers, Carpet. Bissell Carpet Sweeper Company. 80,976–82; renewed Feb. 21, 1931.
Tools and machinery. Van Camp Hardware & Iron Company. 81,560; renewed Apr. 18, 1931.
Underreamers. Bridgeport Machine Company. 277,850–2; Nov. 25.
Valves, Automatic. Ingersoll-Rand Company. 277,800; Nov. 25; Serial No. 303,185; published Sept. 9, 1930.
Vending machines, Vendi-Cater, Inc. 277,791; Nov. 25; Serial No. 303,755; published Sept. 9, 1930.
Vending machines, Coin-operated. Uneedapak Products Company. 277,823; Nov. 25; Serial No. 302,703; published Sept. 9, 1930.

CLASS 26

Air piloting and computing devices. A. R. Melhuish. 277,724; Nov. 25; Serial No. 299,922; published Sept. 9, 1930.

Counting machines. E. R. Ammon. 277,790; Nov. 25; Serial No. 303,795; published Sept. 9, 1930.
Pyrometer. American Demag Corporation. 277,798; Nov. 25; Serial No. 303,361; published Sept. 9, 1930.
Rules. Stanley Works. 277,718; Nov. 25; Serial No. 300,824; published Aug. 26, 1930.

CLASS 27

Clocks, clock movements, and parts. M. Winterhalder & Hofmeier G. m. b. H. 277,657; Nov. 25; Serial No. 282,329; published Sept. 9, 1930.
Clocks, Electric. New Jersey Clock Company. 277,681; Nov. 25; Serial No. 303,974; published Sept. 9, 1930.
Clocks, Porcelain. Irving Miller & Co. 277,690; Nov. 25; Serial No. 303,293; published Sept. 9, 1930.
Watches. Bulova Watch Company. 277,684; Nov. 25; Serial No. 303,836; published Sept. 9, 1930.

CLASS 28

Articles made of or plated with precious metal consisting of pins, watch fobs, and medals. Delta Psi. 277,756; Nov. 25; Serial No. 293,961; published Sept. 9, 1930.
Pins, badges, and pendants, Pledge. Delta Omicron. 277,813; Nov. 25; Serial No. 303,278; published Sept. 9, 1930.

CLASS 29

Brooms and brushes, Whisk. Palmetto Whisk & Broom Company. 277,812; Nov. 25; Serial No. 303,341; published Aug. 26, 1930.
Brushes, Bath. Continental Manufacturing Corporation, Ltd. 277,680; Nov. 25; Serial No. 304,040; published Sept. 9, 1930.
Cloths, Polishing. F. J. Bankle. 277,697; Nov. 25; Serial No. 302,456; published Sept. 9, 1930.

CLASS 30

Salt and pepper shaker constructed of china, combination. W. H. Montgomery. 277,831; Nov. 25; Serial No. 302,736; published Sept. 9, 1930.

CLASS 32

Tables, cases, desks, etc. Gunn Furniture Company. 277,701; Nov. 25; Serial No. 299,572; published Sept. 9, 1930.

CLASS 33

Glass bottles and jars. Hazel-Atlas Glass Company. 81,527; renewed Apr. 18, 1931.

CLASS 34

Burners, Oil. Waltham Oil Burner Corporation. 277,722; Nov. 25; Serial No. 300,094; published Sept. 9, 1930.
Burners, Vaporizing oil. Regal Corporation. 277,799; Nov. 25; Serial No. 303,257; published Sept. 9, 1930.
Furnaces, Coal. Standard School Company. 277,856; Nov. 25.
Heating grilles. Tuttle & Bailey Manufacturing Company. 277,785; Nov. 25; Serial No. 302,973; published Sept. 9, 1930.
Radiators of heating systems and unit heaters and radiator and coils for heat-exchange units. McQuay Radiator Corporation. 277,858; Nov. 25.
Reflectors, Metal. Testrite Instrument Company. 277,844; Nov. 25.

CLASS 35

Belt, Sold woven cotton. Victor Balata & Textile Belting Co. 277,855; Nov. 25.
Brake linings and asbestos clutch facings, Asbestos. Multibestos Company. 277,821; Nov. 25; Serial No. 303,019; published Sept. 9, 1930.
Tires, Vehicle. United States Rubber Company. 277,822; Nov. 25; Serial No. 302,918; published Sept. 9, 1930.
Tubing, Flexible metallic. Pennsylvania Flexible Metallic Tubing Company. 80,870; renewed Feb. 7, 1931.

CLASS 37

Paper. District of Columbia Paper Manufacturing Company. 80,466; renewed Dec. 27, 1930.
Paper. District of Columbia Paper Manufacturing Company. 80,767; renewed Jan. 31, 1931.
Paper, and more particularly such paper as is used for wrapping purposes. American Lakes Paper Company. 277,713–14; Nov. 25; Serial Nos. 293,359–60; published Sept. 9, 1930.
Paper, Writing and printing. W. M. Donaldson. 81,438; renewed Apr. 11, 1931.
Paper, Writing and printing. Strathmore Paper Company. 277,723; Nov. 25; Serial No. 300,038; published Sept. 9, 1930.
Pencils, Lead. Eagle Pencil Company. 80,768; renewed Jan. 31, 1931.
Pens, Fountain. Wahl Company. 277,652; Nov. 25; Serial No. 287,513; published Sept. 9, 1930.

CLASS 38

Books. Lamar & Whitmore, Book Agents, Publishing House, M. E. Church, South. 277,746; Nov. 25; Serial No. 301,041; published Sept. 9, 1930.
Magazine. Automobile Club of New Haven County. 277,730; Nov. 25; Serial No. 303,735; published Sept. 9, 1930.

Magazine. Bruce Publishing Company. 277,737; Nov. 25; Serial No. 302,723; published Sept. 9, 1930.
Magazine. House Furnishing Review Company. 277,656; Nov. 25; Serial No. 283,194; published Sept. 9, 1930.
Magazine, Periodical. Church Federator Co. 277,729; Nov. 25; Serial No. 303,878; published Sept. 9, 1930.
Newspaper. Morning News, Inc. 277,731; Nov. 25; Serial No. 303,572; published Sept. 9, 1930.
Newspaper articles. Chr. Hansen's Laboratory, Inc. 277,846; Nov. 25.
Periodical. Junior Literary Guild, Inc. 277,741; Nov. 25; Serial No. 302,510; published Sept. 9, 1930.
Periodical or trade paper. Antiquarian Publishing Company. 277,734; Nov. 25; Serial No. 303,146; published Sept. 9, 1930.
Periodicals. American Lithographic Company. 277,728; Nov. 25; Serial No. 303,941; published Sept. 9, 1930.
Periodicals. A. A. Cohen. 277,747; Nov. 25; Serial No. 303,949; published Sept. 9, 1930.
Publication. Ames Harris Neville Co. 277,736; Nov. 25; Serial No. 302,805; published Sept. 9, 1930.
Publication, Periodical. O. L. Tracy. 277,709; Nov. 25; Serial No. 297,944; published Sept. 9, 1930.
Section of a periodical. C. A. Nowak. 277,732; Nov. 25; Serial No. 303,381; published Sept. 9, 1930.

CLASS 39

Apparel, Certain named. Brill Brothers. 36,244; renewed Apr. 16, 1931.
Boots and shoes. Goodyear Rubber Company. 277,679; Nov. 25; Serial No. 303,328; published Sept. 2, 1930.
Boots, shoes, and sandals, etc. Woodbury Shoe Mfg. Co. 277,667; Nov. 25; Serial No. 302,264; published Aug. 26, 1930.
Boots, shoes, slippers, etc. Kaufmann Department Stores, Inc. 277,708; Nov. 25; Serial No. 298,400; published Aug. 26, 1930.
Caps, Dust. American Cap Co. 277,672; Nov. 25; Serial No. 302,762; published Sept. 9, 1930.
Clothing. Rubberized. Quickslip Company. 277,678; Nov. 25; Serial No. 303,256; published Sept. 8, 1930.
Coats, mackinaws, caps, etc. Albert Richard Company. 277,715; Nov. 25; Serial No. 300,979; published Aug. 26, 1930.
Coats, Sack. Sweet, Orr & Co. 35,449; renewed Nov. 20, 1930.
Coats, suits, and hats, etc. I. Weingarten. 277,670; Nov. 25; Serial No. 302,422; published Aug. 26, 1930.
Coats, suits, leggings, etc. Max Bauer, Incorporated. 277,673; Nov. 25; Serial No. 302,806; published Sept. 9, 1930.
Corsets and women's and children's underwaists. Sears, Roebuck and Co. 80,740; renewed Jan. 24, 1931.
Corsets, brassières, girdles, etc. Poirette Corsets, Inc. 277,671; Nov. 25; Serial No. 302,693; published Sept. 2, 1930.
Corsets, corselets, girdles, etc. B. E. Tibbits. 277,664; Nov. 25; Serial No. 301,727; published Aug. 26, 1930.
Corsets, girdles, brassières, etc. Barclay Corset Company. 277,676; Nov. 25; Serial No. 303,149; published Sept. 2, 1930.
Dresses, Ladies'. M. C. D. Borden & Sons, Inc. 277,760; Nov. 25; Serial No. 291,111; published Dec. 24, 1929.
Garments, Foundation. Nature's Rival Co. 277,666; Nov. 25; Serial No. 301,996; published Aug. 26, 1930.
Gloves. Seattle Glove Company. 277,668; Nov. 25; Serial No. 302 287; published Aug. 26, 1930.
Hats, Ladies'. Everitt & Graf, Inc. 277,658; Nov. 25; Serial No. 270,242; published Oct. 23, 1928.
Hosiery. Bear Brand Hosiery Co. 277,807–8; Nov. 25; Serial Nos. 303,461–2; published Sept. 9, 1930.
Hosiery. Chalfont Hosiery Mills. 277,751; Nov. 25; Serial No. 298,488; published Sept. 9, 1930.
Hosiery. Metropole Hosiery Mills, Inc. 277,805; Nov. 25; Serial No. 303,510; published Sept. 9, 1930.
Hosiery. Vaughan Knitting Company. 277,757; Nov. 25; Serial No. 293,757; published Feb. 18, 1930.
Hosiery, socks, and anklets. Middletown Knitting Co. 277,806; Nov. 25; Serial No. 303,482; published Sept. 9, 1930.
Neckties. Stern, Merritt Co. Inc. 277,814; Nov. 25; Serial No. 303,224; published Sept. 9, 1930.
Overcoats, topcoats, and suits. Eagle Clothes. 277,809–10; Nov. 25; Serial Nos. 303,425–6; published Sept. 9, 1930.
Raincoats. Popular Warehouses, Limited. 277,802; Nov. 25; Serial No. 303,512; published Sept. 9, 1930.
Raincoats. Popular Warehouses, Limited. 277,804; Nov. 25; Serial No. 303,511; published Sept. 9, 1930.
Sandals. Walther Loewendahl Shoe Co. Inc. 277,735; Nov. 25; Serial No. 302,955; published Sept. 2, 1930.
Shirts and underwear. Apollo Shirt Co. 277,815; Nov. 25; Serial No. 303,022; published Sept. 2, 1930.
Shirts, Gymnasium. Oneita Knitting Mills. 277,817; Nov. 25; Serial No. 302,963; published Sept. 2, 1930.
Shoes. Andre, Incorporated. 277,674; Nov. 25; Serial No. 302,923; published Sept. 9, 1930.
Shoes. Theo. Bergmann Shoe Mfg. Co. 277,662; Nov. 25; Serial No. 301,330; published Sept. 2, 1930.
Shoes. Walker T. Dickerson Company. 277,707; Nov. 25; Serial No. 299,051; published Sept. 2, 1930.
Shoes. Forbes & Wallace, Inc. 277,677; Nov. 25; Serial No. 303,175; published Sept. 9, 1930.
Shoes. Johns-Tilt Shoe Co. 277,663; Nov. 25; Serial No. 301,464; published Aug. 26, 1930.
Shoes. R. H. Macy & Co. 277,665; Nov. 25; Serial No. 301,967; published Sept. 2, 1930.
Shoes. E. J. Ramsey. 277,653; Nov. 25; Serial No. 286,385; published Sept. 9, 1930.
Soles. The Lima Cord Sole and Heel Company. 277,675; Nov. 25; Serial No. 302,953; published Aug. 26, 1930.
Spats. F. C. Chamberlain & Co. Inc. 277,717; Nov. 25; Serial No. 300,857; published Sept. 9, 1930.
Suits, Beach. E-Z Mills, Inc. 277,838; Nov. 25; Serial No. 302,379; published Sept. 9, 1930.
Suits, overcoats, topcoats, etc. Big Store Company. 277,753; Nov. 25; Serial No. 296,474; published Sept. 2, 1930.
Suspenders, garters, arm bands, etc. Pioneer Suspender Company. 277,669; Nov. 25; Serial No. 302,331; published Aug. 26, 1930.
Sweaters, bathing suits, and sport coats. United Globe Knitting Mills, Inc. 277,743; Nov. 25; Serial No. 301,313; published Aug. 26, 1930.
Ties. E. Glick. 277,766–7; Nov. 25; Serial Nos. 300,408–9; published Sept. 9, 1930.
Underclothing, Children's. Brown Durrell Co. 80,266; renewed Nov. 29, 1930.
Undergarments. M. S. Siegel & Company. 277,748; Nov. 25; Serial No. 300,148; published Sept. 9, 1930.
Undergarments. M. S. Siegel & Company. 277,768; Nov. 25; Serial No. 300,150; published Sept. 9, 1930.
Underwear. Rabiner Underwear Co. Inc. 277,744; Nov. 25; Serial No. 301,293; published Sept. 2, 1930.
Underwear, bathing suits, pajamas, and running trunks. My Maryland Mills, Incorporated. 277,755; Nov. 25; Serial No. 295,042; published Sept. 9, 1930.
Underwear, gloves, and hosiery. Julius Kayser & Co. 277,706; Nov. 25; Serial No. 299,061; published Aug. 26, 1930.
Underwear, shirts, skirts, etc. Underwear of Rayon, Inc. 277,832; Nov. 25; Serial No. 302,659; published Sept. 9, 1930.

CLASS 40

Braids and bias bindings. Williamsport Narrow Fabric Co. 277,740; Nov. 25; Serial No. 302,521; published Sept. 2, 1930.
Elastic. Overall. Southern Webbing Mills, Inc. 277,738; Nov. 25; Serial No. 302,649; published Sept. 2, 1930.

CLASS 42

Carpets, Textile. Hardwick & Magee Company. 277,853; Nov. 25.
Cotton sheetings. Naumkeag Steam Cotton Co. 81,285; renewed Mar. 21, 1931.
Fabric, Cord. Manville Jenckes Company. 277,711; Nov. 25; Serial No. 295,627; published Sept. 9, 1930.
Fabrics. Wm. Openhym & Sons. 35,793; renewed Jan. 22, 1931.
Fabrics, Pile. E. F. Timme & Son. 277,770; Nov. 25; Serial No. 303,978; published Sept. 9, 1930.
Fabrics, Pile. E. F. Timme & Son. 277,795; Nov. 25; Serial No. 303,495; published Sept. 9, 1930.
Nankins, Baby. W. F. Bender & Co. Inc. 277,705; Nov. 25; Serial No. 299,106; published Aug. 26, 1930.
Pile fabrics. Sidney Blumenthal & Co. Inc. 277,769; Nov. 25; Serial No. 303,991; published Sept. 9, 1930.
Silk piece goods. Jansen & Pretzfeld, Inc. 277,778; Nov. 25; Serial No. 303,813; published Sept. 2, 1930.
Woolen piece goods and pile fabrics in the piece. I. Gottlieb. 277,797; Nov. 25; Serial No. 303,375; published Sept. 9, 1930.

CLASS 43

Silk thread, and yarn, Artificial. "La Soie Artificielle De Calais," S. A. 277,792–4; Nov. 25; Serial Nos. 303,603–5; published Sept. 9, 1930.
Threads, Artificial-silk. Algemeene Kunstzijde Unie N. V. 277,826; Nov. 25; Serial No. 301,003; published Sept. 9, 1930.

CLASS 44

Nasal douche. Kress & Owen Company. 36,125; renewed Mar. 26, 1931.
Suspensories, trusses and bandages. Meyers Manufacturing Company. 79,777; renewed Oct. 4, 1930.

CLASS 45

Beverages. Dorado Club Beverage Co. 277,827; Nov. 25; Serial No. 304,129; published Sept. 9, 1930.
Beverages, sirups and extracts for making the same. Citrus Juice & Flavor Company. 277,801; Nov. 25; Serial No. 303,158; published Sept. 9, 1930.
Ginger ale. Independent Druggist's Alliance Distributing Co. 277,773; Nov. 25; Serial No. 303,904; published Sept. 9, 1930.
Ginger ale. J. W. Wuppermann Angostura Bitters Agency, Inc. 277,847; Nov. 25.
Ginger ale and ginger syrup. H. C. M. Franks. 277,659; Nov. 25; Serial No. 268,153; published Sept. 9, 1930.

CLASS 46

Beef, Fore quarters and hind quarters of fresh. Swift and Company. 277,660; Nov. 25; Serial No. 256,552; published May 8, 1928.

Beef, Fore quarters and hind quarters of fresh. Swift and Company. 277,661; Nov. 25; Serial No. 256,551; published Apr. 17, 1928.
Butter. Montgomery & Company. 277,772; Nov. 25; Serial No. 303,916; published Sept. 9, 1930.
Butter. R. F. Pantier. 277,699; Nov. 25; Serial No. 301,203; published Sept. 9, 1930.
Cake. Continental Baking Company. 277,784; Nov. 25; Serial No. 303,246; published Sept. 9, 1930.
Candies, Chocolate. Central Candy Company. 80,573; renewed Jan. 10, 1931.
Candy, Renal, Inc. 277,695; Nov. 25; Serial No. 302,601; published Sept. 9, 1930.
Canned corn. Austin, Nichols & Co. Inc. 277,854; Nov. 25.
Canned salmon. Deming & Gould Company. 81,256; renewed Mar. 21, 1931.
Canned salmon. Pacific American Fisheries. 81,165; renewed Mar. 7, 1931.
Canned salmon. Pacific American Fisheries. 81,411; renewed Apr. 4, 1931.
Canned sauerkraut, tomato catsup, pickles, and chili sauce. J. Weller Company. 277,745; Nov. 25; Serial No. 301,221; published Sept. 9, 1930.
Canned vegetables. Burnham & Morrill Company. 277,683; Nov. 25; Serial No. 303,875; published Sept. 9, 1930.
Canned vegetables. Lange Canning Co. 277,691; Nov. 25; Serial No. 303,192; published Sept. 9, 1930.
Canned vegetables. Olney & Floyd. 80,797–8; renewed Jan. 31, 1931.
Cereal food products. H-O (Hornby's Oatmeal) Company. 36,005; renewed Mar. 5, 1931.
Chocolate, Liquid milk. Pango Milk Chocolate Co. 277,733; Nov. 25; Serial No. 303,342; published Sept. 9, 1930.
Chocolate syrup. Zarex Company. 277,739; Nov. 25; Serial No. 302,561; published Sept. 9, 1930.
Coffee. L. D. Margolis. 79,290; renewed Aug. 23, 1930.
Coffee, tea, extracts, etc. McFadden Coffee & Spice Co. 277,742; Nov. 25; Serial No. 302,439; published Sept. 9, 1930.
Corn, molasses, and sorghum syrup, Compound of. Corn Products Refining Company. 81,202; renewed Mar. 14, 1931.
Flour, Wheat. Acme Flour Mills Co. 277,693; Nov. 25; Serial No. 303,020; published Sept. 9, 1930.
Flour, Wheat. Blish Milling Company. 80,637; renewed Jan. 17, 1931.
Flour, Wheat. Delta Flour Mills Co. 277,721; Nov. 25; Serial No. 300,173; published Sept. 9, 1930.
Flour, Wheat. Northwestern Consolidated Milling Company. 81,164; renewed Mar. 7, 1931.
Flour, Wheat. Rea-Patterson Milling Co. 80,239; renewed Nov. 22, 1930.
Flour, Wheat. C. B. Stout. 277,719–20; Nov. 25; Serial Nos. 300,549–50; published Sept. 9, 1930.
Food, Dog. F. L. Marney. 277,783; Nov. 25; Serial No. 303,538; published Sept. 9, 1930.
Food, Stock. Blish Milling Company. 80,636; renewed Jan. 17, 1931.
Food, Stock and poultry. Pillsbury Flour Mills Company. 277,696; Nov. 25; Serial No. 302,597; published Sept. 9, 1930.
Foods. Scudders-Gale Grocer Co. 81,305; renewed Mar. 21, 1931.
Foods for birds. J. P. Leindorf. 277,686; Nov. 25; Serial No. 303,606; published Sept. 9, 1930.
Fruits, Dried. Fairview Fruit Packing Co. 277,698; Nov. 25; Serial No. 301,425; published Sept. 9, 1930.
Fruits, Fresh deciduous. L. E. Engelberg. 277,692; Nov. 25; Serial No. 303,102; published Sept. 9, 1930.
Groceries. R. I. Sherman. 33,126; renewed June 27, 1929.
Milk, butter, cheese, etc. Saya G. m. b. H. 277,716; Nov. 25; Serial No. 300,886; published Sept. 9, 1930.
Milk, Condensed. Scio Condensed Milk Co. 79,158; renewed Aug. 9, 1930.
Mustard. Société en Commandite par Actions Produits Alimentaires Louit Frères et Cie. 85,568; renewed Dec. 11, 1930.
Oranges, lemons, grapefruit, etc. Winter Garden Citrus Growers Association. 81,563; renewed Apr. 18, 1931.
Pineapple, Fresh. Arthur Serra & Co. 277,702; Nov. 25; Serial No. 299,411; published Sept. 9, 1930.
Tea, Beverage. Sprague, Warner & Company. 277,726; Nov. 25; Serial No. 299,736; published Sept. 9, 1930.
Vegetables and fruits, fresh grapes, etc., Fresh. Eastern Fruit Distributors, Inc. 277,860; Nov. 25.

CLASS 48

Beverage, Malt. Upper Peninsula Produce Company. 277,796; Nov. 25; Serial No. 303,409; published Sept. 9, 1930.
Beverage, Malt cereal. Fitger Company. 277,703; Nov. 25; Serial No. 299,312; published Sept. 9, 1930.

CLASS 49

Whisky, Straight Irish. Irish Industrial Development Association (Incorporated). 79,059; renewed Aug. 2, 1930.

CLASS 50

Linings coated with rubber or other solutions. R. D. Werner. 277,845; Nov. 25.

ALPHABETICAL LIST OF LABELS

American Maid Flour. For Flour. American Maid Flour Mills. 38,276; Nov. 25.
Barmon Art Styled Frocks. For Women's Frocks. Barmon Brothers Company. 38,278; Nov. 25.
Best—Next to You. For Plasters. Deane Plaster Co. 38,284; Nov. 25.
Chief Flour. For Flour. American Maid Flour Mills. 38,277; Nov. 25.
Club Car. For Coffee. Standard Brands Incorporated. 38,300; Nov. 25.
Color Comparison Cards. For Booklet of Cards to Determine the Exact Shades of Butter. Chr. Hansen's Laboratory Inc. 38,292; Nov. 25.
Comb Honey Individually Packed. For Comb Honey. C. W. Aeppler. 38,273; Nov. 25.
Comb Honey Separately Enclosed. For Comb Honey. C. W. Aeppler. 38,274; Nov. 25.
Comb Honey Wrapped in Cellophane. For Comb Honey. C. W. Aeppler. 38,271; Nov. 25.
Eat Schwefer's Coffee Cake. For Coffee Cake. W. Schwefer. 38,307; Nov. 25.
Educational Letters. For Letters of the Alphabet and Numerals. A. I. Root Company. 38,303; Nov. 25.
Evangeline Flour. For Flour. American Maid Flour Mills. 38,275; Nov. 25.
Forest Treats. For Pecans. D. Calamari. 38,279; Nov. 25.
Grennan Cookies. For Cookies. Grennan Bakeries, Inc. 38,291; Nov. 25.
Holsum. For Bread. Schulze Baking Company. 38,305; Nov. 25.
Imperial Brand Salted in the Shell. For Peanuts and Almonds. H. E. Downs. 38,289; Nov. 25.
Independent Merchants are the Backbone of Our Country—Trade With Them. For Flour. Cherokee Mills. 38,282; Nov. 25.
Keep Your Rumidor Loaded with Refills. For Smoker's Article for Flavoring and Moistening Cigars, Cigarettes, and Pipe Tobacco. Rumidor Corporation. 38,304; Nov. 25.
Kreuger's Cream Soda. For Beverage. Kreuger Beverage Company. 38,296; Nov. 25.
Kreuger's Lime Dry. For Beverage. Kreuger Beverage Company. 38,295; Nov. 25.
Kreuger's Sarsaparilla. For Beverage. Kreuger Beverage Company. 38,294; Nov. 25.
Lafayette Agun Caliente Hot Coffee Bottle. For Bottles Insulated with Cork and Asbestos for Holding Hot or Cold Beverages. O. J. Lafayette & Co. Ltd. 38,297; Nov. 25.
Leelanau Brand Michigan Natural Red Sour Pitted Cherries. For Canned Red Sour Pitted Cherries. Haserot Company. 38,293; Nov. 25.
Mercedes Hosiery De Luxe. For Men's Hosiery. Chenango Knitting Company. 38,280; Nov. 25.
Miller's Pop-Pi-Ya. For a Confection Composed of Blended Fruits. R. C. Miller. 38,299; Nov. 25.
Neighborhood Stores. For Canned Pears. Neighborhood Stores, Inc. 38,300; Nov. 25.
Nirosta Ware. For Kitchen Ware and Food Service Equipment. Transrue & Williams Steel Forging Corporation. 38,311; Nov. 25.
No. 661 Creamery Butter. For Butter. W. W. Doane. 38,287; Nov. 25.
No. 662 Creamery Butter. For Butter. W. W. Doane. 38,286; Nov. 25.
No. 663 Creamery Butter. For Butter. W. W. Doane. 38,288; Nov. 25.
No. 664 Creamery Butter. For Butter. W. W. Doane. 38,285; Nov. 25.
Our Gang. For Playthings. Gray Lithograph Company. 38,290; Nov. 25.
Pay-Roll. For Overalls. S. D. Surlow. 38,310; Nov. 25.
Perfection Distilled Water. For Distilled Water. Perfection Equipment Co. 38,301; Nov. 25.
Puritan Pure Malt Extract. For Malt Extract. Puritan Malt Extract Company. 38,302; Nov. 25.
Quaker. For Bread. Schulze Baking Company. 38,306; Nov. 25.
Royal. For Gelatin Dessert. Standard Brands Incorporated. 38,308; Nov. 25.

Sherburne Hose. For Hosiery. Chenango Knitting Company. 38,281; Nov. 25.
Sonny South. For Buckwheat, Wheat, and Corn Pancake Flour. Louisville Milling Company. 38,298; Nov. 25.
Spruce Beer. For Spruce Beer. Courtois & Baril. 38,283; Nov. 25.
Vari-Chlor-Ose. For Medicinal Preparation for the Treatment of Varicose Veins. Ulmer Laboratories. 38,312; Nov. 25.
Wrapped Comb Honey. For Comb Honey. C. W. Aeppler. 38,272; Nov. 25.

ALPHABETICAL LIST OF PRINTS

Ant Ollo. For a Preparation for Killing Ants. H. B. Pruden. 12,827; Nov. 25.
Buster Brown. For Shoes. A. W. Gayou. 12,825; Nov. 25.
Dependable Merchants System. For Advertising Food Products. Nash-Finch Company. 12,826; Nov. 25.
You've Given Her the Biggest Thing of All. For Wheat Breakfast Food. Cream of Wheat Corporation. 12,824; Nov. 25.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 25TH DAY OF NOVEMBER, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Aaron, Arthur H., Amityville, assignor to Fairchild Aviation Corporation, New York, N. Y. Muffler. 1,782,396; Nov. 25.
Abbott, Cecil C., Harbor Springs, W. E. Bassett, B. L. Bassett, and I. L. Bassett, Detroit, Mich. Fire escape. 1,782,951; Nov. 25.
Acer, Herbert A., assignor to Acer & Whedon, Inc., Medina, N. Y. Furnace top. 1,783,065; Nov. 25.
Acer & Whedon, Inc. (See Acer, Herbert A., assignor.)
Acme-Knitting Machine & Needle Company. (See Stewart, Albert E., assignor.)
Acme Road Machinery Company. (See Cook, David B., assignor.)
Adams, Arthur H., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for testing electrical conductors. 1,782,397; Nov. 25.
Adamson, Allan A., Rochester, N. Y., assignor, by mesne assignments, to Autokraft Box Corporation, Lima, Ohio. Forming lids for cigar boxes. 1,782,799; Nov. 25.
Aktiebolaget Gotaverken. (See Johansson, Johan E., assignor.)
Aktiebolaget Ljungströms Angturbin. (See Lysholm, Alf, assignor.)
Alcor Manufacturing Company. (See Nielsen, Karl K., assignor.)
Alcorn Combustion Company. (See Nash, A. E., and Alcorn, assignors.)
Alcorn, James S. (See Nash, A. E., and Alcorn, assignors.)
Alemite Corporation. (See Piquerez, Emile, assignor.)
Alexanderson, Ernst F. W., Schenectady, and R. D. Kell, Scotia, N. Y., assignors to General Electric Company. Transmission of pictures. 1,783,031; Nov. 25.
Alfreds, Torris H., Park Ridge, Ill., assignor to W. S. Ferris, now trading as Do/More Chair Company, Elkhart, Ind. Back-rest arrangement for chairs. 1,782,398; Nov. 25.
Alinder, Henry. (See Shipley, G. B., and Alinder.)
Allan, Archibald, Tynemouth, assignor to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England. Electric switch gear. 1,782,594; Nov. 25.
Alland, Maurice, Atlantic City, N. J. Plant-propagating device. 1,783,007; Nov. 25.
Allen, Albert J., Brooklyn, assignor to The Engineering Products Corporation, Inc., New York, N. Y. Electrical instrument. 1,782,525; Nov. 25.
Allgaier, Carl F., Joliet, Ill. Burning-in tool. 1,782,952; Nov. 25.
Allner, Frederick A. (See Talbutt, R. H., and Allner.)
Allred, William P., jr., Kansas City, Mo. Storage and parking garage. 1,782,671; Nov. 25.
American Bicheroux Company, The. (See Dorsey, Vernon M., assignor.)
American Brake Company, The. (See Wahlert, Henry A., assignor.)
American Brass Company, The. (See Hook, Ira T., assignor.)
American Cast Iron Pipe Company. (See Morgan, Walter, assignor.)
American Flyer Mfg. Co. (See Becker, Harry S., assignor.)
American Hardware Corporation, The. (See Teich, Ernest L., assignor.)
American Optical Company. (See Tillyer, Edgar D., assignor.)
American Telephone and Telegraph Company. (See Labaugh, James M., assignor.)
American Telephone and Telegraph Company. (See Ohl, Russell S., assignor.)
Amler, Jaroslav, Stamford, Conn. Automobile trap bumper. 1,783,066; Nov. 25.
Amsler, Alfred J., Schaffhausen, Switzerland. Hydraulic press particularly for testing materials. 1,782,595; Nov. 25.
Amy, Aceves & King, Inc. (See Amy, Ernest V., assignor.)
Amy, Ernest V., assignor to Amy, Aceves & King, Inc., New York, N. Y. Absorption of sound. 1,782,399; Nov. 25.
Anaconda Copper Mining Company. (See Carstens, Carl E., assignor.)
Anaconda Copper Mining Company. (See Garred, Ulysses A., assignor.)
Anchelevich, Max, Cincinnati, Ohio. Leak-tester cap for automobile radiators. 1,782,496; Nov. 25.
Anderson, Fred M., New Orleans, La. Electric power circuit control system. 1,783,067; Nov. 25.
Anderson, Hans O., Hampton Bays, N. Y. Clam-catching implement. 1,782,497; Nov. 25.
Anderson, John A., assignor to The Bridgeport Hardware Manufacturing Corporation, Bridgeport, Conn. Screw driver. 1,782,981; Nov. 25.
Andreas, Arno, Munster, Germany. Screen for disintegrating machines. 1,782,953; Nov. 25.
Andrews, Dennis C., assignor to The Northwest Paper Company, Cloquet, Minn. Bleaching pulp. 1,782,800; Nov. 25.
Appelbaum, Isaac, Brooklyn, N. Y. Folding container. 1,783,068; Nov. 25.
Appleton, Ernst G. (See Newman, C., and Appleton.)
Apter, Saul, Cincinnati, Ohio. Traveling case. Des. 82,596; Nov. 25.
Ardco Manufacturing Company. (See Ellis, D. S., and Zusy, assignors.)
Armbruster, Charles E. H., Denver, Colo. Diagnostic instrument. 1,782,705; Nov. 25.
Arnold, William T., Hempstead, N. Y. Electrical meter switch. 1,782,454; Nov. 25.
Askania-Werke Aktiengesellschaft vormals Centralverkstatt Dessau und Carl Bamberg-Friedenau. (See Reipert, Ernst, assignor.)
Astels, Ernest W. (See Palmer, William, assignor.)
Atlantic Service Company. (See Schaefer, Adolph O., assignor.)
Austin, Robert A., Chicago, Ill. Appliance for invalids. 1,782,672; Nov. 25.
Autokraft Box Corporation. (See Adamson, Allan A., assignor.)
Automatic Burner Corporation. (See Perry, Stanley, assignor.)
Automatic Coffee Creamer Incorporation. (See Bronson, E. G., and Russell, assignors.)
Automatic Molding Machine Corporation. (See Morris, T. O., and Lawlor, assignors.)
Automatic Oilingseal Corporation. (See Morrow, Emmet H., assignor.)
Autoyre Company, The. (See Mosgrove, Charles A., assignor.)
Axell, Fred H., Oakland, Calif. Attachment for containers. 1,782,886; Nov. 25.
Ayers, Everett, Brooklyn, assignor of one-third to H. Ayers, Chicago, and one-third to J. Ayers, Camden, Ill. Seed replanting attachment for cultivators. 1,783,032; Nov. 25.
Ayers, Hester, et al. (See Ayers, Everett, assignor.)
Ayers, James, et al. (See Ayers, Everett, assignor.)
Babcock & Wilcox Company, The. (See Jones, Edwin W., assignor.)
Babcock & Wilcox Company, The. (See Jones, William A., assignor.)
Babcock & Wilcox Company, The. (See Savoye, Charles U., assignor.)
Baden-Powell, Baden F. S., Riverhead, Sevenoaks, England. Centrifugal gun. 1,783,053; Nov. 25.
Bader, Fred W., Hillsdale, N. J., assignor to J. Kridel, Sons & Co. Textile fabric. Des. 82,597; Nov. 25.
Baehn, Frederick, Jersey City, N. J. Radio loud-speaker. 1,782,801; Nov. 25.
Bagasse Products Corporation. (See de la Roza, Joaquin J., sr., assignor.)
Baker, Dexter C., Oakland, assignor to Baker-Hansen Manufacturing Co., Alameda, Calif. Rotary pump. 1,782,771; Nov. 25.
Baker, Guy. (See Stanford, F. G. and Baker.)
Baker-Hansen Manufacturing Co. (See Baker, Dexter C., assignor.)
Baker Ice Machine Co. Inc. (See Hoffman, John F., assignor.)
Baker, Richard D., Spokane, Wash. Safety razor. 1,782,455; Nov. 25.
Bancroft, William B. (See Blackburn, J. H., and Bancroft.)
Barber Asphalt Company, The. (See Freegard, William, assignor.)
Barcley Corset Company. (See Gray, Etta, assignor.)
Barium Reduction Corporation. (See Pierce, James B., jr., assignor.)
Barker Manufacturing Company, The. (See Zeilinger, John F., assignor.)
Barker, Winston C., Detroit, Mich. Brake mechanism. 1,783,104; Nov. 25.
Barnard, Neal G., Minneapolis, Minn. Pencil sharpener. 1,783,146; Nov. 25.
Barnard, Neal G., Minneapolis, Minn. Laundry apparatus. 1,783,147; Nov. 25.
Barnes Drill Company. (See Johnson, Albert M., assignor.)
Barr, Archie. (See Kelly, W. J., Burns, and Barr.)

Barratt, Whitford R. (See Rial, W. D., and Barratt.)
Barrett Company, The. (See Martin, Samuel G., assignor.)
Barrett Company, The. (See Miller, Stuart P., assignor.)
Bartholomew, Sherman, Guerneville, assignor of one-half to H. Harris, Rionide, Calif. Drinking fountain for poultry or small animals. 1,782,673; Nov. 25.
Bartlett Hayward Company, The. (See Wagner, Frederick H., assignor.)
Bassett, Bert L. (See Abbott, C. C., and Bassett.)
Bassett, Irvin L. (See Abbott, C. C., and Bassett.)
Bassett, Willard E. (See Abbott, C. C., and Bassett.)
Bauer, Conrad, Mount Oliver, Pa. Venetian blind. 1,782,954; Nov. 25.
Bauer, Wilhelm, Wiesdorf-on-the-Rhine, W. Neelmeier, and T. Nocken, Leverkusen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. New indigoid dyestuffs. 1,782,706; Nov. 25.
Baumgartner, August, Hollis, assignor to R. Hoe & Co., Inc., New York, N. Y. Web-cutting mechanism. 1,782,674; Nov. 25.
Bayley, William, Springfield, Ohio. Road-building apparatus. 1,782,707; Nov. 25.
Bayley, William D., Springfield, Ohio. Silo. 1,782,675; Nov. 25.
Bazzoni, Lewis J., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Burnishing machine. 1,782,802; Nov. 25.
Beardsley, Arthur L., Elkhart, Ind. Tubular container. 1,782,526; Nov. 25.
Becker, Harry S., River Forest, assignor to American Flyer Mfg. Co., Chicago, Ill. Track switch for toy electric railroads. 1,783,069; Nov. 25.
Becker, Julius H., San Francisco, Calif. Pressure indicator. 1,782,803; Nov. 25.
Bellgard, Harvey A., Hollywood, Calif. Automatic food-unit-filling machine. 1,782,596; Nov. 25.
Beimling, William A., assignor to National Brake & Electric Company, Milwaukee, Wis. Radiator. 1,782,394; Nov. 25.
Bell & Howell Company, The. (See Howell, Albert S., assignor.)
Bell Telephone Laboratories, Incorporated. (See Snook, Homer C., assignor.)
Bendix Aviation Corporation. (See Stelzer, William, assignor.)
Benjamin, Bert R., Oak Park, Ill., assignor to International Harvester Company. Tractor stalk chopper. 1,782,560; Nov. 25.
Benjamin, E. V., Co., The. (See Orndoff, Herbert W., assignor.)
Bennett, Bert L. (See Glenn, J. H., jr., and Bennett.)
Bennett, Inslee A., Pittsburgh, Pa., assignor to National Electric Products Corporation, New York, N. Y. Electric wiring device and accessory. 1,782,527; Nov. 25.
Bensa, Felice. (See Penecke, Walther, assignor.)
Bergemann, Frederick R., Pueblo, Colo. Screw driver. 1,783,070; Nov. 25.
Berger, Knute, Seattle, Wash. Hoisting and hauling carriage for use on elevated trackways. 1,782,528; Nov. 25.
Best Foods, Inc. (See Schaub, Jacob, assignor.)
Bethlehem Steel Company. (See Keller, Albert T., assignor.)
Betts, Benjamin B. (See Miller, H., and Betts.)
Biermanns, Josef, Karlshorst, Germany, assignor to General Electric Company. Circuit protection. 1,783,105; Nov. 25.
Bigelow-Sanford Carpet Co. (See Stone, E. W., and Martin, assignors.)
Biggert, Florence C., jr., Crafton, assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Apparatus for charging furnaces and the like. 1,782,955; Nov. 25.
Biggs, George A., assignor to Rodney Hunt Machine Company, Orange, Mass. Turbine-regulating device. 1,782,456; Nov. 25.
Biggs, George A., assignor to Rodney Hunt Machine Company, Orange, Mass. Link for hydraulic turbines. 1,782,498; Nov. 25.
Biron, Athanase, Montreal, Quebec, Canada. Signal switch for dispensing apparatus. 1,783,106; Nov. 25.
Black, Harvey T., Lexington, N. C. Door-operating mechanism. 1,782,982; Nov. 25.
Black, John C., Wilmington, Calif., assignor, by mesne assignments, to Gasoline Products Company, Inc., Wilmington, Del. Method of cracking and processing petroleum hydrocarbons. 1,782,676; Nov. 25.
Blackburn, John H., Preston, and W. E. Bancroft, Accrington, assignors to Howard & Bullough Limited, Accrington, England. Ring for the unwinding of yarn from yarn containers in cable-cord frames or other twisting or doubling frames. 1,782,772; Nov. 25.
Blackhall, John R. (See Cordell, H., and Blackhall.)
Blackman, Horace L., assignor to The Parker Pen Company, Janesville, Wis. Dispensing cabinet. 1,782,597; Nov. 25.
Boardman, Raymond H. (See Young, F. A., and Boardman.)
Boella, Giovanni, assignor to Soc. An. Officine Di Villar Perosa, Turin, Italy. Shock absorber. 1,782,457; Nov. 25.
Bolard, Alfred J. G., Vernon, Eure, assignor to "Rusbol," Société à Responsabilité Limitée, Clichy, France. Wheel-lifting device. 1,782,400; Nov. 25.
Boldizsár, Frank, Rakospalota, Hungary. Self-balancing plansifter. 1,782,561; Nov. 25.
Boltz, Fred S., Mansfield, Mass. Soil-water catch basin and heat reclaimer. 1,783,033; Nov. 25.
Bondy Auto Top Company, The. (See Bondy, Charles M., assignor.)
Bondy, Charles M., assignor to The Bondy Auto Top Company, Cleveland, Ohio. Button. Re17,877; Nov. 25.
Bonnar-Vawter Fanform Company. (See Fulk, George L., assignor.)
Booth, Clement, assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Producing noncylindrical articles. 1,783,034; Nov. 25.
Bordas de la Fé, César, Habana, Cuba. Plow. 1,782,598; Nov. 25.
Borden Company, The. (See Olsen, Olaf C., assignor.)
Borden Company, The. (See Taylor, Burt E., assignor.)
Borden, Stephen W., Summit, N. J. Earth electrode. 1,783,035; Nov. 25.
Borglin, Joseph N., Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del. Producing rosin oil. 1,782,401; Nov. 25.
Botwin, Harry. (See Neuschafer, F., and Botwin.)
Boutin, Joseph A., Phoenix, Ariz. Clinical thermometer. 1,782,599; Nov. 25.
Bouton, Edgar M., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Elevator-control system. 1,782,708; Nov. 25.
Bouvier, George A., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for testing electrical conductors. 1,782,403; Nov. 25.
Bouvier, George A., Oak Park, and H. L. Case, Maywood, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for testing electrical conductors. 1,782,402; Nov. 25.
Bowly, Heyward W., Summit, and W. W. McWilliams, South Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Clamping device. 1,782,404; Nov. 25.
Boyce, Harrison H., Jericho, N. Y. Instrument-board mounting. 1,782,405; Nov. 25.
Boychuk, John P. (See Boychuk, Nicholas P. and J. P.)
Boychuk, Nicholas P. and J. P., Edmonton, Alberta, Canada. Sheaf-shocking machine. 1,782,837; Nov. 25.
Bradley, Anson K., assignor to Morgan Construction Company, Worcester, Mass. Gas producer. 1,782,677; Nov. 25.
Brado, George T., Reno, Nev. Burner. 1,782,600; Nov. 25.
Brady, Charles T., Detroit, Mich. Lamp shade. 1,782,601; Nov. 25.
Brand, Edwin J. (See Neuberger, Franklin H., assignor.)
Brandon, Francis, New Albany, Ind. Handle. 1,783,107; Nov. 25.
Breitenstein, Albert F., assignor to The Geometric Tool Co., New Haven, Conn. Collapsing taper-thread tap. 1,782,804; Nov. 25.
Breitling, Adolf, Tampico, Mexico, assignor of eighteen per cent to G. L. Zarate and seven per cent to J. E. Palmer. Charge-treating device for internal-combustion engines. 1,782,709; Nov. 25.
Brenneman, Milton B., Davenport, Iowa. Physics laboratory apparatus. 1,782,644; Nov. 25.
Brennen, William J., Scottdale, Pa. Motor protective device. 1,782,458; Nov. 25.
Bridgeport Hardware Manufacturing Corporation, The. (See Anderson, John A., assignor.)
Briechle, Ambrosius, assignor to Fairchild Aerial Camera Corporation, New York, N. Y. Aerial camera. 1,782,864; Nov. 25.
Brill, J. G., Company, The. (See Sayres, C., and Peabody, assignor.)
Brillié, Eugene, Paris, France. Apparatus for signaling condition of fluid in conduits. 1,782,838; Nov. 25.
Bristol, Wm. H., Talking Picture Corporation. (See Garrigus, Clarence G., assignor.)
British Dyestuffs Corporation Limited. (See Cronshaw, C. J. T., and Naunton, assignors.)
Broeman, Frank C., assignor to A. Silbersack, Cincinnati, Ohio. Cleaning powder. 1,782,805. Nov. 25.
Bronson, Ek G., Detroit, Mich., and J. W. Russell, East Orange, N. J., assignors to Automatic Coffee Creamer Incorporation, Detroit, Mich. Method and apparatus for dispensing liquids. 1,782,678; Nov. 25.
Brown, George R., Bridgeport, Conn., assignor to General Electric Company. Thermal cut-out and guard. 1,782,459; Nov. 25.
Brownell, James L., assignor to Checker Cab Manufacturing Corporation, Kalamazoo, Mich. Door handle. Des. 82,598; Nov. 25.
Brownell, James L., assignor to Checker Cab Manufacturing Corporation, Kalamazoo, Mich. Window-regulator handle. Des. 82,599; Nov. 25.
Brownell, James L., assignor to Checker Cab Manufacturing Corporation, Kalamazoo, Mich. Handle. Des. 82,600; Nov. 25.
Brownell, James L., assignor to Checker Cab Manufacturing Corporation, Kalamazoo, Mich. Picture or card holder. Des. 82,601; Nov. 25.
Brownell, James L., assignor to Checker Cab Manufacturing Corporation, Kalamazoo, Mich. Lamp housing. Des. 82,602; Nov. 25.

Bruckmann, Peter C., St. Louis, Mo., assignor by mesne assignments to Vorclone Company. Bearing construction. 1,782,710; Nov. 25.
Bruckmann, Peter C., St. Louis, Mo., assignor, by mesne assignments, to Vorclone Company. Positioning device for laundry machines. 1,782,983; Nov. 25.
Brunner, Emilio. (See Stansfield, E., and Brunner.)
Brush, Frederick F., assignor to Paragon Vaporizer Corporation, Chicago, Ill. Method of and apparatus for vaporizing liquid fuels. 1,782,602; Nov. 25.
Bruson, Herman A., Philadelphia, Pa., assignor to The Resinous Products & Chemical Company. Mixed esters of colophony and related substances. 1,783,165; Nov. 25.
Bruson, Herman A., Philadelphia, Pa., assignor to The Resinous Products & Chemical Company. Resin plasticizer. 1,783,166; Nov. 25.
Bruson, Herman A., Germantown, Pa., assignor to The Resinous Products & Chemical Company. Preparation of rubberlike masses. 1,783,167; Nov. 25.
Bruson, Herman A., Germantown, Pa., assignor to The Resinous Products & Chemical Company. Condensation product and preparing same. 1,783,168; Nov. 25.
Budlong, Edward J., assignor to Budlong & Funchess Motor Products Co., Hanford, Calif. Spreader. 1,783,071; Nov. 25.
Budlong & Funchess Motor Products Co. (See Budlong, Edward J., assignor.)
Bullinger Engine Heads. (See Bullington, Frank A., assignor.)
Bullington, Frank A., assignor to Bullington Engine Heads, Kansas City, Mo. Engine combustion chamber. 1,782,395; Nov. 25.
Bureau, Arthur A., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Portable crane. 1,782,406; Nov. 25.
Burgess, Laurie L., Cambridge, Mass., assignor to Plastic, Inc., Keene, N. H. Producing compositions containing compounds of alginic acid and product thereof. 1,782,887; Nov. 25.
Burns, Milton P. (See Kelly, W. J. Burns, and Barr.)
Burrage, Albert E. (See Sharman, H. B., and Burrage.)
Burrows, Robert J., assignor to Clark Tructractor Company, Buchanan, Mich. Automobile lift truck. 1,782,865; Nov. 25.
Butler, Leland K., Manchester, N. H., assignor, by mesne assignments, to Excel Taping Machine Co., Lynn, Mass. Tape-applying machine. 1,782,532; Nov. 25.
Byrnes, Clarence P., trustee. (See James, Joseph H., assignor.)
Byron, Jerome P., assignor, by mesne assignments, to Excel Taping Machine Co., Lynn, Mass. Tape-applying machine. 1,782,563; Nov. 25.
Cadieux, Joseph O., assignor, by mesne assignments, to Connecticut Telephone & Electric Company, Inc., Meriden, Conn. Telephone-instrument switching. 1,782,806; Nov. 25.
Cady, Hilda H., Saranac Lake, N. Y. Hair waver. 1,783,108; Nov. 25.
California Cedar Products Company. (See Chichester, O. F., and Sylva, assignors.)
California Peach & Fig Growers Association. (See Tyler, J. G., Taylor, and Johnson, assignors.)
Callahan, Michael J., New York, N. Y. Concealed unit for heating and ventilating. 1,782,711; Nov. 25.
Calvert, Raymond A. (See Goddard, J., and Calvert.)
Cambridge Instrument Company. (See Sutton, Charles D., assignor.)
Cameron, Everett S., Tottenville, N. Y. Valve action for internal-combustion engines. 1,782,839; Nov. 25.
Campbell, Harry E., and E. F. Mekelburg, Milwaukee, Wis., assignors, by mesne assignments, to Cutler-Hammer, Inc. Electric switch. 1,782,916; Nov. 25.
Camuset Charles, Bretigny-sur-Orge, France. Diffusion plant. 1,782,603; Nov. 25.
Cann, Harry E., West Chester, Pa. Milk cooler. 1,782,840; Nov. 25.
Carey, Philip, Manufacturing Company, The. (See Fisher, Harry C., assignor.)
Carlile, Frank S., Abington, Pa. Battery cover. 1,782,984; Nov. 25.
Carlson, Albin V., Degerhamn, Sweden. Manufacturing porous building materials. 1,782,460; Nov. 25.
Carlson, Harvey, Cheboygan, Mich. Lamp. 1,782,917; Nov. 25.
Carney, George A., Dorchester, Mass. Skate. 1,782,499; Nov. 25.
Carr, William C., Richmond, Va. Exercising and massaging machine. 1,782,866; Nov. 25.
Car-Record Company, The. (See Souter, Eugene H., assignor.)
Carrigus, Clarence G., Bristol, assignor, by mesne assignments, to Wm. H. Bristol Talking Picture Corporation, Waterbury, Conn. Speed-control apparatus. 1,782,990; Nov. 25.
Carroll, Robert A. (See Elliott, H. L., and Carroll.)
Carstens, Carl E., assignor to Anaconda Copper Mining Company, Anaconda, Mont. Treating copper ores preparatory to leaching. 1,782,841; Nov. 25.
Carter, William C., Flint, Mich. Solenoid motor for fuel pump. 1,782,407; Nov. 25.
Cartlidge, Frank, assignor to Cincinnati Mine Machinery Co., Cincinnati, Ohio. Mining-machine cutter chain. 1,782,408; Nov. 25.
Case, Harry L. (See Bouvier, G. A., and Case.)
Case, J. I., Company. (See MacGregor, W. F., and Krause, assignors.)
Casey-Hedges Company, The. (See Moses, A. J., and Wright, assignors.)
Castorlube Refining Co. (See Clough, Roscoe E., assignor.)
Central Foundry Company, The. (See Crotty, Joseph J., assignor.)
Champion Spark Plug Company. (See Rohde, Otto C., assignor.)
Chapal Donner Corporation, The. (See Plass, Robert H., assignor.)
Chapman Electric Neutralizer Company. (See Chapman, William H., assignor.)
Chapman, Verni J., Schenectady, N. Y., assignor to General Electric Company. Welding machine. 1,782,461; Nov. 25.
Chapman, William H., assignor to Chapman Electric Neutralizer Company, Portland, Me. Controlling electrostatic charges on moving surfaces. 1,782,712; Nov. 25.
Chappelka, Arthur H., Lakeline, Ohio. Hoist. 1,782,679; Nov. 25.
Chappuzeau, Helmut, and O. Emersleben, Kiel, Germany, assignors to the firm Neufeldt & Kuhnke Betreibsgesellschaft m. b. H., Kiel, Germany. Arrangement for testing magnetizable objects. 1,782,462; Nov. 25.
Checker Cab Manufacturing Corporation. (See Brownell, James L., assignor.)
Chemical Construction Corporation. (See Hechenbleikner, Ingenuin, assignor.)
Chemische Fabrik auf Actien (vorm. E. Schering). (See Jordan, Hans, assignor.)
Chemische Fabrik Grünau Landshoff & Meyer Aktiengesellschaft. (See Kirchner, Walter, assignor.)
Cherry-Burrell Corporation. (See Maanum, Dedrick A., assignor.)
Cherry-Burrell Corporation. (See Rosenfeld, Louis, assignor.)
Chicago Bridge & Iron Company. (See Griffin, Alvah M., assignor.)
Chicago Faucet Company, The. (See Gavin, John H., assignor.)
Chicago Mill and Lumber Corporation. (See Gerlach, Charles W., assignor.)
Chichester, Oscar F., and J. J. Sylva, assignors to California Cedar Products Company, Stockton, Calif. Slat waxing and stacking machine. 1,782,645; Nov. 25.
Chickering, Krikor B. (See Erysin, H. A., and Chickering.)
Chidester, John H., Chatham, N. J. Ticker-tape control. 1,783,008; Nov. 25.
Chiles, Robert L., Knoxville, Tenn. Detector-tube circuit. 1,782,500; Nov. 25.
Chireix, Henri, Paris, France. Frequency-regulating system. 1,782,807; Nov. 25.
Chireix, Henri, Paris, France. Antenna system. 1,783,072; Nov. 25.
Chislock, Anthony, Stamford, Conn. Vehicle direction indicator. 1,782,773; Nov. 25.
Chr. Gfeller Aktiengesellschaft. (See Trachsel, Fritz., assignor.)
Chr. Hostmann-Steinberg Sche Farbenfabriken G. m. b. H. (See Machtolf, Josef, assignor.)
Christon, George A., trustee. (See Eckert, George F., assignor.)
Chrysler Corporation. (See McClellan, Harry S., assignor.)
Chute, Harry O., New York, N. Y. Vulcanization of rubber. 1,782,713; Nov. 25.
Chute, Stanley J., Ridgewood, N. J., assignor to The Griscom-Russell Company, New York, N. Y. Heat exchanger. 1,782,409; Nov. 25.
Cincinnati Grinders Incorporated. (See Booth, Clement, assignor.)
Cincinnati Grinders Incorporated. (See Seward, Ernest R., assignor.)
Cincinnati Grinders Incorporated. (See Turner, Albert, assignor.)
Cincinnati Mine Machinery Co. (See Cartlidge, Frank, assignor.)
Clark, George P. (See Dodge, John H., assignor.)
Clark, Keith, Ridgewood, N. J. Desk calendar. 1,782,985; Nov. 25.
Clark Tructractor Company. (See Burrows, Robert J., assignor.)
Clench, Claude, Dumfries, Scotland. Balancing of crank shafts. 1,783,073; Nov. 25.
Cleveland Switchboard Company, The. (See Hafemeister, Fred F., assignor.)
Clough, Roscoe E., Palo Alto, assignor to Castorlube Refining Co., San Francisco, Calif. Engine lubricant and process of making. 1,782,501; Nov. 25.
Colantuono, Mauro, Pittston, and S. Pineno, Wyoming, Pa. Lock nut. 1,782,463; Nov. 25.
Comey, R. H., Brooklyn Company. (See Geisler, Edgar W., assignor.)
Commanditaire Vennootschap; J. B. van Heijst & Zonen. (See van Heijst, Franciscus W., assignor.)
Compagnie Lorraine De Charbons pour L'Electricite. (See Oswald, Marcel, assignor.)
Compagnie Nationale de Matieres Colorantes et Manufactures de Produits Chimiques du Nord Reunies, Etablissements Kuhlman. (See Durr, André H. V., assignor.)

Compton, James T., Los Angeles, Calif. Ground scraper and leveler. 1,782,646; Nov. 25.
Coulon Corporation. (See Janda, Rudolph W., assignor.)
Connecticut Telephone & Electric Company. (See Cadieux, Joseph O., assignor.)
Connecticut Telephone & Electric Corporation. (See Young, F. A., and Boardman, assignors.)
Connery, William M., Philadelphia, Pa. Wall covering and support therefor. 1,782,774; Nov. 25.
Connolly, Gerald C. (See Miller, E. B., and Connolly.)
Continental Can Co. Inc. (See Coyle, John, assignor.)
Continental Diamond Fibre Company. (See Frederick, Louis T., assignor.)
Cook, David B., assignor to Acme Road Machinery Company, Frankfort, N. Y. Road machinery. 1,783,009; Nov. 25.
Cook, Joshua. (See Woodcock, R. B., and Cook.)
Cook, L. D., Kansas City, Mo. Storage garage. 1,782,410; Nov. 25.
Cooper, Ethel A. (See Erhardt, Fred, assignor.)
Copland, Alexander W., deceased, by Detroit & Security Trust Company, Detroit, Mich., assignee, and M. I. Mathewson, Providence, R. I., assignors to Detroit & Security Trust Company, Detroit, Mich. Truing gears. Re17,884; Nov. 25.
Cordell, Henry, Wilmette, and J. R. Blackhall, Highland Park, Ill., said Cordell, assignor to said Blackhall. Carwashing machine. 1,783,074; Nov. 25.
Corning Glass Works. (See Lebby, States L., assignor.)
Costello Engineering Company. (See Kneass, Strickland, jr., assignor.)
Coufal, Joseph F., and H. A. Smith, New York, N. Y. Electric sign. 1,782,584; Nov. 25.
Coyle, John, Baltimore, Md., assignor to Continental Can Co. Inc., New York, N. Y. Marking device for can-closing machines. 1,783,109; Nov. 25.
Crane, Charles A., Winthrop, assignor of one-half to E. G. Wurzburg, Quincy, Mass. Combination polish applying and finishing mitt. 1,782,502; Nov. 25.
Crawford, Henry V., Schenectady, N. Y., assignor to General Electric Company. Control mechanism for centrifugal compressors and operating the same. 1,783,036; Nov. 25.
Crittall Casement Window Company. (See Jorss, Karl F., assignor.)
Crocker-Wheeler Electric Manufacturing Company. (See Edmunds, H. M., and Waring, assignors.)
Cronshaw, Cecil J. T., and W. J. S. Naunton, Blackley, Manchester, assignors to British Dyestuffs Corporation Limited, Manchester England. Use of the mono- and di-carbalkoxy-diarylthioureas as accelerators in the vulcanization of rubber. 1,782,842; Nov. 25.
Cross Development Corporation. (See Cross, Roy, assignor.)
Cross, Roy, Kansas City, Mo., assignor to Cross Development Corporation, Wilmington, Del. Treating hydrocarbons. 1,782,808; Nov. 25.
Cross, Walter M. (See Hawthorne, Joseph G., assignor.)
Crotty, Joseph J., assignor to The Central Foundry Company, New York, N. Y. Waste and vent fitting. 1,782,775; Nov. 25.
Cruikshank, James W. (See Merian, F., and Cruikshank.)
Currier, Hiram D., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Socket. 1,782,411; Nov. 25.
Cutler-Hammer, Inc. (See Campbell, H. E., and Mekelburg, assignors.)
Cutler-Hammer Inc. (See Hunter, Richard B., assignor.)
Dalton, Hubert, Stamford, Coll. Top for smoker's stands. Des. 82,603; Nov. 25.
Darco Corporation. (See Hill, Roy L., assignor.)
Darrach, Bradford, et al. (See Jones, Archdale J., assignor.)
Dauch, Alan D., assignor to George J. Hagan Company, Pittsburgh, Pa. Rotary-hearth furnace. 1,782,956; Nov. 25.
Davidson, Joseph, assignor to Davidson-Kennedy Company, Atlanta, Ga. Apparatus for treating oleaginous material. 1,782,714; Nov. 25.
Davidson-Kennedy Company. (See Davidson, Joseph, assignor.)
Davidson, Philip, assignor to International Combustion Engineering Corporation, New York, N. Y. Central lubrication system for roller-mill rollers. 1,782,867; Nov. 25.
Davis, Harold G., assignor to The Davis and Son Manufacturing Company, Denver, Colo. Oil-dispensing device. 1,782,715; Nov. 25.
Davis and Son Manufacturing Company, The. (See Davis, Harold G., assignor.)
Dawson, Elma N. (See Dawson, James C., assignor.)
Dawson, James C., assignor to E. N. Dawson, Webster Groves, Mo. Loose-leaf binder. 1,782,647; Nov. 25.
Dean, Dion K., Rahway, N. J., assignor to Foster Wheeler Corporation, New York, N. Y. Apparatus for condensing steam. 1,782,986; Nov. 25.
Dearborn, Richard J., Summit, N. J., assignor to The Texas Company, New York, N. Y. Method and apparatus for cracking hydrocarbon oils. 1,783,010; Nov. 25.
Deetjen, Richard, Berlin-Wilmersdorf, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. High-speed vessel. 1,782,868; Nov. 25.
Defris, Rudolf, Stockerau, and R. Wilder, Vienna, Austria. Manufacture of activated carbon. 1,783,110; Nov. 25.
De la Roza, Joaquin J., sr., Brooklyn, assignor to Bagasse Products Corporation, New York, N. Y. Recovering the fibrous material from sugar cane. 1,782,869; Nov. 25.
Delattre-Seguy, Jean, assignor to Universal Oil Products Company, Chicago, Ill. Process and apparatus for treating oil. 1,782,809; Nov. 25.
Delattre-Seguy, Jean, assignor to Universal Oil Products Company, Chicago, Ill. Process and apparatus for distilling liquids. 1,782,810; Nov. 25.
Delattre-Seguy, Jean, assignor to Universal Oil Products Company, Chicago, Ill. Treating hydrocarbons. 1,782,811; Nov. 25.
De Montmollin, Guillaume. (See Gubler, H., De Montmollin, and Spieler.)
Denham, William C., Keensburg, Ill. Mechanical movement. 1,782,888; Nov. 25.
Derus, Albert E., Chicago, Ill. Mechanically-operated figure toy. 1,782,843; Nov. 25.
Detroit & Security Trust Company. (See Copland, A. W., and Mathewson.)
De Vinna, Clyde, Los Angeles, assignor to Metro-Goldwyn-Mayer Corporation, Culver City, Calif. Film-magazine-locking device. 1,782,529; Nov. 25.
Diamant Samu és Fiai, Messrs. (See Géza, Frommer, assignor.)
Dibner, Abraham B., Peekskill, N. Y. Electrical conductor. 1,782,812; Nov. 25.
Dickson, James G., Glencoe, Ill. Gasket. 1,782,870; Nov. 25.
Dictaphone Corporation. (See Johnson, Manfred J., assignor.)
Dierks, Wilhelm, Osnabruck, Germany. Stirrer mechanism. 1,782,957; Nov. 25.
Dietrichs, Charles, Little Ferry, assignor to Walker Cement Products, Inc., Union City, N. J. Concrete-pipe mold. 1,782,412; Nov. 25.
Dietrichs, Charles, Little Ferry, assignor to Walker Cement Products, Inc., Union City, N. J. Concrete-brick manufacture. 1,782,413; Nov. 25.
Dillingham, George E. (See Stadler, E. H., and Dillingham.)
Dodge, John H., assignor of one-half to G. P. Clark, Shannock, R. I. Loom. 1,782,987; Nov. 25.
Doehler Furniture Co. (See Paull, Erwin J., assignor.)
Dohnal, Frank, Euclid, Ohio. Screw holder. 1,782,565; Nov. 25.
Dolan, John, Dayton, Ohio. Lifting mechanism. 1,782,889; Nov. 25.
Do/More Chair Company. (See Alfreds, Torris H.)
Dorsey, Vernon M., Chevy Chase, Md., assignor to The American Bicheroux Company, Wilmington, Del. Sheet-glass-handling mechanism. 1,782,716; Nov. 25.
Dougherty, Charles P., Spokane, Wash. Combination control switch. 1,782,530; Nov. 25.
Dow Chemical Company, The. (See Griswold, Thomas, jr., assignor.)
Dowling, Francis J., assignor to Francis Kell & Son, Inc., New York, N. Y. Rotary bolt lock. 1,782,776; Nov. 25.
Down, Sidney G., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automotive brake. 1,782,566; Nov. 25.
Draper Corporation. (See Jackson, Joseph B., assignor.)
Drewell, Heinrich, Berlin-Charlottenburg, Germany. Automatically copying pictures and making printing plates for printing pictures, etc. 1,782,717; Nov. 25.
Du Bose, Horace M., jr., et al. (See Glenn, J. H., jr., and Bennett, assignors.)
Duer, Caroline K., New York, N. Y. Cabinet suitcase. 1,782,414; Nov. 25.
Du Pont Rayon Company. (See Nlogret, Henri F., assignor.)
Durr, André H. V., assignor to Compagnie Nationale de Matiercs Colorantes et Manufactures de Produits Chimiques du Nord Reunies, Etablissements Kuhlmann, Paris, France. Resinous condensation product. Re17,878; Nov. 25.
Dwight, Amos T., Redbank, N. J. Strainer. 1,783,111; Nov. 25.
Dym, Jacob, assignor to Porcelier Manufacturing Company, East Liverpool, Ohio. Coffee percolator. 1,782,958; Nov. 25.
Eastman Kodak Company. (See Teague, Walter D., assignor.)
Eckart, George F., assignor to G. A. Chritton, Chicago, Ill., trustee. Flexible coupling. 1,783,158; Nov. 25.
Edgren, John, Tbayne, Wyo. Air-compressing coupling for engine cylinders. 1,782,718; Nov. 25.
Edmunds, Howard M., New York, N. Y., and E. H. Waring, Essex Fells, assignor to Crocker-Wheeler Electric Manufacturing Company, Ampere, N. J. Change-speed gear. 1,782,756; Nov. 25.
Egli, Ernst, assignor to Maschinenfabrik Rüti vormals Casper Honegger, Ruti, Switzerland. Shuttle-guard device for shuttles without threading devices for automatic looms. 1,782,604; Nov. 25.
Eichenbaum, Irving A., New York, N. Y. Hat-making machine. 1,783,112; Nov. 25.
Eisenburger, Kuno, Bistrita, Rumania, assignor to the firm of Sulzer Frères Société Anonyme, Winterthur, Switzerland. Internal-combustion engine. 1,783,075; Nov. 25.
Eisleb, Otto. (See Jensch, H., and Eisleb.)
Ekstrand, Edward B., West Somerville, Mass. Fuse plug. 1,782,719; Nov. 25.

Elliott-Fisher Company. (See Foothorap, Harry A., assignor.)
Elliott, Henry L., and R. A. Carroll, Claysville, assignors of one-third to T. W. Henderson, Washington, Pa. Ventilating apparatus. 1,782,890; Nov. 25.
Elliott, William S., Pittsburgh, Pa. Distilling apparatus. 1,782,959; Nov. 25.
Ellis, Daniel S., Hackensack, N. J., and C. J. Zusy, Yonkers, N. Y., assignors, by mesne assignments, to Ardco Manufacturing Company, Hoboken, N. J. Locomotive-bell ringer. 1,782,844; Nov. 25.
Elison, Bernard E., Walton-on-Thames, England. Apparatus for tipping and discharging railway cars. 1,782,503; Nov. 25.
Emersleben, Otto. (See Chappuzeau, H., and Emersleben.)
Engineering Products Corporation, Inc., The. (See Allen, Albert J., assignor.)
Erb, Karl, Frankfort-on-the-Main, Main-Griesheim, Germany. Decorticating and depuiping machine. 1,782,918; Nov. 25.
Erhardt, Fred, assignor to E. A. Cooper, Kansas City, Mo. Fastening for leggings and boots. 1,782,504; Nov. 25.
Erysin, Harry A., Malden, and K. B. Chickering, Brockton, Mass. Making food product. 1,782,960; Nov. 25.
Evans Auto Loading Co. Inc., The. (See Tucker, M. D., and Snyder, assignors.)
Evans, William L., Washington, Ind. Hinge. 1,783,076; Nov. 25.
Excel Magneto Company. (See Reis, Curt F., assignor.)
Excel Taping Machine Co. (See Butler, Leland K., assignor.)
Excel Taping Machine Co. (See Byron, Jerome P., assignor.)
Fairchild Aerial Camera Corporation. (See Briechle, Ambrosius, assignor.)
Fairchild Aviation Corporation. (See Aaron, Arthur H., assignor.)
Falk, Morris, Fitchburg, Mass. Master key for cylinder locks. 1,782,464; Nov. 25.
Farley, James, Hertford, England. Transmission mechanism. 1,782,605; Nov. 25.
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Gasket. 1,782,567; Nov. 25.
Farmer, John F., Indianapolis, Ind. Adjustable guard for openings. 1,782,415; Nov. 25.
Fay, Alpheus, and J. L. Zehnder, Louisville, Ky. Hose or pipe clamp. 1,782,680; Nov. 25.
Fay, J. A., & Egan Company, The. (See Hirst, James E., assignor.)
Fehn, John G., Des Moines, Iowa. Base for a laundry appliance. Des. 82,638; Nov. 25.
Feinstein, Max. (See Miller, C., and Feinstein.)
Feldman, Abram L., Atlanta, Ga. Disinfecting container. 1,782,919; Nov. 25.
Fenton, Paul E., Thomaston, assignor to Scovill Manufacturing Company, Waterbury, Conn. Machine-attached rivet and burr. 1,783,113; Nov. 25.
Ferguson, William, Flint, Mich. Sheet-metal bumping-out tool. 1,783,077; Nov. 25.
Ferguson, William, Flint, Mich. Bumping-out tool. 1,783,078; Nov. 25.
Ferriera, Angeolo S., San Jose, Calif. Mold. 1,782,813; Nov. 25.
Ferris, William S. (See Alfred, Torris H., assignor.)
Ferris, William S., Elkhart, Ind. Chair or similar article. Des. 82,604; Nov. 25.
Ficks Reed Company. (See Goodman, Avrom B., assignor.)
Fildes, Frederick K., Altoona, Pa. Closure operating and locking mechanism. 1,782,845; Nov. 25.
Filter Fabrics, Inc. (See Manning, Fred W., assignor.)
Fine, Bernard M., assignor to Sanitary Products Corporation of America, Philadelphia, Pa. Machine for forming articles from sheet material. 1,782,777; Nov. 25.
Fischer, Charles, New York, N. Y. Handle for pipe cleaners. 1,782,871; Nov. 25.
Fisher, Harry C., Cincinnati, Ohio, assignor, by mesne assignments, to The Philip Carey Manufacturing Company. Coloring slate granules. 1,782,648; Nov. 25.
Fisher, Harry C., Cincinnati, Ohio, assignor, by mesne assignments, to The Philip Carey Manufacturing Company. Forming grayish-black slate granules. 1,782,649; Nov. 25.
Flanzer, Joseph A., Brooklyn, assignor to Technidyne Corporation, New York, N. Y. Radio dialing device. 1,782,778; Nov. 25.
Flintkote Company, The. (See Levin, Harold L., assignor.)
Florine, Nicolas, assignor of ten per cent to Societe Nationale pour l'Etude des Transports Aeriens, Societe Anonyme, Brussels, Belgium. Helicopter. 1,783,011; Nov. 25.
Florman, Irving, New York, N. Y. Cigarette lighter. Des. 82,647; Nov. 25.
Fokker, Anthony H. G., Amsterdam, Netherlands. Filtering fluids. 1,782,531; Nov. 25.
Foothorap, Harry A., Harrisburg, Pa., assignor to Elliott-Fisher Company. Computing machine. 1,782,757; Nov. 25.
Forbes, John S., Philadelphia, Pa., assignor, by mesne assignments, to Yates & Grant, Inc., Detroit, Mich. Magnetic razor conditioning and device therefor. 1,783,012; Nov. 25.
Forster, Percy M., Berkeley, Calif. Torch. 1,782,872; Nov. 25.
Foss, Leonard R. and R., Oakland, Calif. Feed gun. 1,782,681; Nov. 25.
Foss, Ruby. (See Foss, Leonard R. and R.)
Foster, Franklin J., et al. (See Jones, Archdale J., assignor.)
Foster, Theodore W., & Brother Co. (See Parkin, Winfred T., assignor.)
Foster Wheeler Corporation. (See Dean, Dion K., assignor.)
Fox, Maud C. (See Scott, I. G., and Fox.)
Fr. Küttner Aktiengesellschaft. (See von den Driesch, Joseph, assignor.)
Frank, Benjamin M., New York, assignor to Greenpoint Metallic Bed Co., Inc., Brooklyn, N. Y. Bed frame. 1,782,988; Nov. 25.
Franklin Oil Heating Incorporated. (See Stuart, William W., assignor.)
Franklin, Ralph E., assignor of one-half to T. P. Knutson, Minneapolis, Minn. Refrigerator. 1,782,720; Nov. 25.
Fraschetti, Virgilio, London, England. Cabinet for the storage of gramophone disk records and the like. 1,782,606; Nov. 25.
Frederick Iron & Steel Company, The. (See Lewis, Basil C., assignor.)
Frederick, Louis T., Valparaiso, Ind., assignor, by mesne assignments, to Continental Diamond Fibre Company, Newark, Del. Method and apparatus for feeding disks to a closing mold. 1,782,989; Nov. 25.
Freegard, William, Elizabeth, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa. Surface covering and making the same. 1,782,416; Nov. 25.
Freeman, Walter A., Augusta, Kans. Loading device. 1,782,607; Nov. 25.
Frenkel, Gennady, Kingston-on-Thames, England. Advertising or like sign or device. 1,782,721; Nov. 25.
Fried, Eugene, Newark, N. J. Device for preventing boiling over of milk. 1,782,417; Nov. 25.
Fried, Fritz. (See Wietzel, G., Jannek, and Fried.)
Fried. Krupp Aktiengesellschaft. (See Hofmann, Konrad, assignor.)
Frink, Frederick W., Schenectady, N. Y., assignor to General Electric Company. High-frequency signaling system. 1,783,037; Nov. 25.
Froehlich, Eugene, New York, N. Y. Obstetrical extractor. 1,782,814; Nov. 25.
Frost, Clarence B., Cambridge, Mass. Fastening bands about bales or the like. 1,782,465; Nov. 25.
Frost & Wood. (See Goddard, J., and Calvert, assignors.)
Fry, Walter L., Scarsdale, assignor, by mesne assignments, to Wil-Fry Corporation, New York, N. Y. Seat cover. 1,782,815; Nov. 25.
Fulk, George L., assignor, by mesne assignments, to Bonnar-Vawter Fanform Company, Inc., Cleveland, Ohio. Printing press. 1,782,608; Nov. 25.
Fuller Lehigh Company. (See Hardgrove, Ralph M., assignor.)
Fullman, James M. G., Sewickley, Pa., assignor to National Electric Products Corporation, New York, N. Y. Fitting for electrical conduit systems. 1,782,779; Nov. 25.
Furey, John P. (See Sullivan, Daniel F., assignor.)
G. & W. Electric Specialty Co. (See Rah, Joseph, assignor.)
G. & W. Electric Specialty Co. (See Williams, Paul F., assignor.)
Galloway Engineering Company. (See Greening, Herald B., assignor.)
Gardner, George H., assignor to The Menasha Products Company, Chicago, Ill. Paper container. 1,782,961; Nov. 25.
Gardner, Stonewall J., New Albany, Ind. Clamp machine. 1,782,846; Nov. 25.
Garred, Ulysses A., Jackson Heights, N. Y., assignor to Anaconda Copper Mining Company. Recovering metals. 1,782,418; Nov. 25.
Gaskill, William R., assignor to R. W. Kerr, Frenchtown, N. J. Incubator. 1,782,609; Nov. 25.
Gasoline Products Company. (See Black, John C., assignor.)
Gavin, John H., assignor to The Chicago Faucet Company, Chicago, Ill. Faucet screen. 1,782,758; Nov. 25.
Gawron, David J., Brooklyn, N. Y. Electric pencil sharpener. 1,783,038; Nov. 25.
Gebhardt, Wilhelm. (See Paschen, P., and Gebhardt.)
Geisler, Edgar W., assignor, by mesne assignments, to R. H. Comey Brooklyn Company, Inc., Brooklyn, N. Y. Treatment of materials to retard fading. 1,783,114; Nov. 25.
Geller, Leon W., Hamburg, assignor to National Aniline & Chemical Co. Inc., New York, N. Y. Disazo dye containing a diphenylurea nucleus. 1,782,682; Nov. 25.
Geloso, John, New York, assignor, by mesne assignments, to Pilot Radio & Tube Corporation, Brooklyn, N. Y. Tube socket. 1,782,419; Nov. 25.
General Aniline Works, Inc. (See Bauer, W., Neelmeier, and Nocken, assignors.)
General Aniline Works, Inc. (See Hoffa, E., and Heyna, assignors.)
General Aniline Works, Inc. (See Schmidt, Robert E., assignor.)
General Chemical Company. (See Merriam, Henry F., assignor.)

General Electric Company. (See Alexanderson, E. F. W., and Keil, assignors.)
General Electric Company. (See Biermanns, Josef, assignor.)
General Electric Company. (See Brown, George R., assignor.)
General Electric Company. (See Chapman, Verni J., assignor.)
General Electric Company. (See Crawford, Henry V., assignor.)
General Electric Company. (See Frink, Frederick W., assignor.)
General Electric Company. (See Gosling, Joseph W., assignor.)
General Electric Company. (See Guay, E. J., and Godfrey, assignors.)
General Electric Company. (See Heisler, Charles L., assignor.)
General Electric Company. (See Ives, Charles A., assignor.)
General Electric Company. (See Kellogg, Edward W., assignor.)
General Electric Company. (See McCullough, Robert Y., assignor.)
General Electric Company. (See Morrill, Wayne J., assignor.)
General Electric Company. (See Peek, Frank W., jr., assignor.)
General Electric Company. (See Radloff, Johannes, assignor.)
General Electric Company. (See Seeley, Harold T., assignor.)
General Electric Company. (See Spitzer, Edwin E., assignor.)
General Electric Company. (See Stephenson, Hugh M., assignor.)
General Electric Company. (See Traver, Oliver C., assignor.)
General Electric Company. (See Trencham, Henry, assignor.)
General Electric Company. (See Trombetta, Panfilo, assignor.)
General Electric Company. (See Vienneau, Jacob J., assignor.)
General Electric Company. (See Wachsmann, Paul, assignor.)
General Electric Vapor Lamp Company. (See Moehler, Otto J., assignor.)
Geometric Tool Co., The. (See Breitenstein, Albert F., assignor.)
Georg, Otto, Herdecke, Germany. Frictional screw-spindle press. 1,783,115; Nov. 25.
Gerlach, Charles W., Wheaton, assignor to Chicago Mill and Lumber Corporation, Chicago, Ill. Packing device. 1,783,079; Nov. 25.
Germanin, Fred, administrator. (See Guay, E. J., and Godfrey.)
Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches. (See Meissner, Alexander, assignor.)
Géza, Frommer, Ujpest, assignor to Messrs. Diamant Samu és Fiai, Budapest, Hungary. Machine for ironing furs. 1,782,722; Nov. 25.
Giacomino, Joseph L., New Orleans, assignor of one-hundred per cent to C. W. Gibson, parish of Orleans, La. Gas burner. 1,782,683; Nov. 25.
Gibson, Carl W. (See Giacomino, Joseph L., assignor.)
Gibson, George M., assignor to Woodrow Washing Machine Company, Pella, Iowa. Washing machine. 1,782,684; Nov. 25.
Gillette Rubber Company. (See Krause, A. R., and Hirsch, assignors.)
Gillot, Henri F. (See Junillon, L. C., and Gillot.)
Gimenez, Marie, Chicago, Ill. Face mask. 1,783,080; Nov. 25.
Gits, Remi J., Chicago, Ill. Automobile brake. 1,782,891; Nov. 25.
Glaze, Herbert L., South Pasadena, and F. G. Stanford, Los Angeles; said Glaze assignor to G. H. Hyland, Los Angeles, Calif. Beverage-display fountain. 1,782,685; Nov. 25.
Glenn, Joe H., jr., and B. L. Bennett, assignors of one-third to H. M. Du Bose, jr., and R. C. Vaughn, Winston-Salem, N. C. Filling station. Des. 82,644; Nov. 25.
Gochnauer, Walter E., La Crosse, Wis., assignor, by mesne assignments, to Moto Meter Gauge & Equipment Corporation, Long Island City, N. Y. Tire gauge. 1,783,116; Nov. 25.
Goddard, John, and R. A. Calvert, Smiths Falls, Ontario, assignors to the firm Frost & Wood, Smiths Falls, Canada. Dragbar for cultivators. 1,782,081; Nov. 25.
Godfrey, Frederick S. (See Guay, E. J., and Godfrey.)
Goodman, Abraham and J., Brooklyn, N. Y. Double hair waver. 1,782,650; Nov. 25.
Goodman, Avrom B., New York, N. Y., assignor to Ficks Reed Company, Cincinnati, Ohio. Chair. Des. 82,605; Nov. 25.
Goodman, Jacob. (See Goodman, Abraham and J.)
Goodrich, B. F., Company, The. (See Wilson, G. F., and Waner, assignors.)
Goost, Theodor. (See Klingemann, F., Lommel, Korten, and Goost.)
Gorham, Marvine, Buffalo, N. Y., assignor to Michigan Steel Casting Company, Detroit, Mich. Roller-mill guide. 1,783,148; Nov. 25.
Gorman, Henry B., Lynchburg, Va., assignor to United Shoe Machinery Corporation, Paterson, N. J. Insole. 1,782,466; Nov. 25.
Gosling, Joseph W., Schenectady, N. Y., assignor to General Electric Company. Lamp support. Des. 82,641; Nov. 25.
Gosparlin, Frederick, Chicago, Ill. Bridge for stringed musical instruments. 1,783,117; Nov. 25.
Gotham Knitbac Machine Corporation. (See Parlini, Alexander C., assignor.)
Grandin, Louis M., New York, N. Y. Telephone system. 1,782,847; Nov. 25.
Granular Iron Company. (See Hornsey, John W., assignor.)
Gravely, Benjamin F., Dunbar, W. Va. Carburetor. 1,782,848; Nov. 25.
Gray, Charles B., Millbourne, Pa. Cutting machine. 1,782,420; Nov. 25.
Gray, Daniel M., and J. J. Williams, assignors to Hazel-Atlas Glass Co., Wheeling, W. Va. Apparatus for casting zinc slabs and the like. 1,782,920; Nov. 25.
Gray, Etta, New Haven, Conn., assignor to Barclay Corset Company. Corsetiere's fitting apparatus. 1,782,892; Nov. 25.
Green, Frank E., Pittsburgh, Pa. Feed chuck. 1,783,039; Nov. 25.
Green, J Birchard, assignor to F. M. Warden, Chicago, Ill. Rod for use in arc welding or cutting. 1,783,013; Nov. 25.
Green, Samuel G., Jones, Ga. Gun carriage. 1,782,610; Nov. 25.
Greening, Herald B., assignor to Galloway Engineering Company Limited, Hamilton, Ontario, Canada. Boat hull construction. 1,782,893; Nov. 25.
Greenpoint Metallic Bed Co. (See Frank, Benjamin M., assignor.)
Greig, Arthur R., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Dewaxing hydrocarbon oils. 1,782,467; Nov. 25.
Gremel, Caroline, executrix. (See Gremel, Frank J.)
Gremel, Frank J., deceased, Detroit, Mich., C. Gremel, executrix. Panel for mold walls. 1,782,921; Nov. 25.
Griffin, Alvah M., Los Angeles, Calif., assignor, by mesne assignments, to Chicago Bridge & Iron Company, Chicago, Ill. Floating deck. 1,783,118; Nov. 25.
Grimley, John P., Harrison, assignor to S. J. Rawlings, Kearney, N. J. Door-holding device. 1,782,816; Nov. 25.
Grimm, George E., assignor to The Willys-Overland Company, Toledo, Ohio. Combination floor board. 1,782,817; Nov. 25.
Griscom-Russell Company, The. (See Chute, Stanley J., assignor.)
Griswold, Thomas, jr., assignor to The Dow Chemical Company, Midland, Mich. Pressure-relieving method and apparatus for autoclaves and the like. 1,783,163; Nov. 25.
Gritt, Frank, Indianapolis, Ind. Lamp. Des. 82,606; Nov. 25.
Grosjean, George B., Shreveport, La. Drain protector. 1,783,082; Nov. 25.
Grubman, Leo J., Belle Harbor, assignor to Markon Manufacturing Co., Inc., New York, N. Y. Artificial eye and applying eyelashes thereto. 1,782,818; Nov. 25.
Grueter, William B., assignor to The Prescott Company, Menominee, Mich. Gang edger. 1,782,894; Nov. 25.
Guay, Emile J., deceased, Swampscott, by F. Germain, administrator, Swampscott, and F. S. Godfrey, Lynn, Mass., assignors to General Electric Company. Machine for forming rings of segmental pieces. 1,783,040; Nov. 25.
Gubler, Hans, Basel, assignor to the firm Society of Chemical Industry in Basle, Basel, Switzerland. Dyestuffs containing metals and making same. 1,783,084; Nov. 25.
Gubler, Hans, and G. De Montmollin, Basel, and J. Spieler, Laufen, assignors to the firm Society of Chemical Industry in Basle, Basel, Switzerland. Dyestuffs containing metals and making same. 1,783,083; Nov. 25.
Guest, Alfred W. F., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical casting machine. 1,782,468; Nov. 25.
Gulf Refining Company. (See McCarty, Robert R., assignor.)
Gurney, Estelle M., New York, N. Y. Circulation regulator for heating systems. 1,782,873; Nov. 25.
Hackett, Henry, Selly Oak, Birmingham, and A. Whittaker, Northfield, Birmingham, England. Manufacture of cardboard boxes. 1,782,611; Nov. 25.
Hacking, William F., Burley, Idaho. Broom holder. 1,783,119; Nov. 25.
Hafemeister, Fred F., assignor to The Cleveland Switchboard Company, Cleveland, Ohio. Safety snap switch. 1,782,780; Nov. 25.
Hagan, George J., Company. (See Dauch, Alan D., assignor.)
Hagan, George J., Company. (See Talley, Randal E., assignor.)
Hagerling, F. J. (See Weisler, August, assignor.)
Halford, Frank B., London, England. Internal-combustion engine. 1,783,085; Nov. 25.
Haller, Charles W., assignor to Wheeling Bronze Casting Company, Wheeling, W. Va. Pickling crate. Re17,882; Nov. 25.

Haner, Carl, Moylan, assignor to Publicker, Inc., Philadelphia, Pa. Treating ethyl alcohol. 1,783,086; Nov. 25.
Hannauer Car Retarder Company. (See Hannauer, G., and Wilcox, assignors.)
Hannauer, George, Calumet City, Ill., and E. M. Wilcox, Hammond, Ind., assignors to Hannauer Car Retarder Company, Chicago, Ill. Track-brake mechanism. 1,782,874; Nov. 25.
Hansell, Clarence W., Rocky Point, N. Y., assignor to Radio Corporation of America. Semirigid crystal mounting. 1,783,014; Nov. 25.
Hansen, Herman, New York, N. Y., assignor to Francis Keil & Son, Inc. Construction for display cases. 1,782,819; Nov. 25.
Hard Manufacturing Company. (See McKay, John, assignor.)
Hardgrove, Ralph M., Allentown, assignor to Fuller Lehigh Company, Fullerton, Pa. Cement spreader. 1,782,820; Nov. 25.
Hardin, Robert H., Bakersfield, Calif. Air-cooling device. 1,782,612; Nov. 25.
Harper, Clarence L., Philadelphia, Pa. Conduit base and trim. 1,783,120; Nov. 25.
Harper, Martin, Strand, London, England. Winding endless cinematograph films and the like. 1,783,169; Nov. 25.
Harris, Carl C., Orange, Mass. Cup for sponge moisteners. 1,782,505; Nov. 25.
Harris, Harry. (See Bartholomew, Sherman, assignor.)
Harris, Harry P. (See Spencer, R. W., and Harris.)
Hartman, Walter S., Calumet City, Ill. Bowling alley. 1,782,849; Nov. 25.
Hartman, William O., assignor to Welsh-Hartman Co., St. Louis, Mo. Flexible handrail and support therefor. 1,782,895; Nov. 25.
Harvey, Aro M., Kansas City, Mo. Ironing board. 1,782,421; Nov. 25.
Hasselbring, John, jr., Woodhaven, assignor to Royalty Holding Corporation, Brooklyn, N. Y. Starter for internal-combustion engines. 1,783,015; Nov. 25.
Havens, Homer M., assignor to The Seagrave Corporation, Columbus, Ohio. Parallel-series pump. 1,782,469; Nov. 25.
Hawaiian Cane Products, Limited. (See Williams, William L. S., assignor.)
Hawthorne, Joseph G., Kansas City, Mo., assignor to W. M. Cross. Cracking hydrocarbon oil. 1,782,686; Nov. 25.
Hazel-Atlas Glass Co. (See Gray, D. M., and Williams, assignors.)
Hazel-Atlas Glass Co. (See Kirkpatrick, John, assignor.)
Hazen, Earl A., Joplin, Mo., assignor to Keystone Driller Company, Beaver Falls, Pa. Fishing tool. 1,782,613; Nov. 25.
Hechenbleikner, Ingenuin, Charlotte, N. C., assignor, by mesne assignments, to Chemical Construction Corporation. Acid-phosphate plant. 1,782,821; Nov. 25.
Hechenbleikner, Ingenuin, Charlotte, N. C., assignor, by mesne assignments, to Chemical Construction Corporation. Combined spray drier and burner. 1,782,822; Nov. 25.
Hechenbleikner, Ingenuin, Charlotte, N. C., assignor, by mesne assignments, to Chemical Construction Corporation. Filtering and dust-collecting apparatus. 1,782,823; Nov. 25.
Hechenbleikner, Ingenuin, Charlotte, N. C., assignor, by mesne assignments, to Chemical Construction Corporation. Catalytic apparatus. 1,782,824; Nov. 25.
Heisler, Charles L., Schenectady, N. Y., assignor to General Electric Company. Roll spreader. 1,782,470; Nov. 25.
Helms, Harry W., assignor to Highway Trailer Company, Edgerton, Wis. Automatic semitrailer. 1,783,087; Nov. 25.
Henderson, Thomas W. (See Elliott, H. L., and Carroll, assignors.)
Henderson, William F., Colfax, Wash. Wrecker bar. 1,782,506; Nov. 25.
Henschel, C. B., Mfg. Co. (See Radloff, E. E., and Janke, assignors.)
Hercules Powder Company. (See Borglin, Joseph N., assignor.)
Hermann, Wolfgang, assignor to Metal Specialties Manufacturing Co., Chicago, Ill. Strip-serving machine. 1,782,922; Nov. 25.
Herz, Alfred, Chicago, Ill. Anti-induction shield. 1,782,875; Nov. 25.
Hess-Bright Manufacturing Company, The. (See Russell, Charles L., assignor.)
Hetherington, Harry C., Washington, D. C., and H. J. Krase, Clarendon, Va., assignors to Arthur B. Lamb, trustee. Manufacture of urea. 1,782,723; Nov. 25.
Heyna, Hans. (See Hoffa, E., and Heyna.)
Hicks, William D., Inglewood, assignor, by mesne assignments, to Master Wire Lath Company, Los Angeles, Calif. Lath. 1,782,568; Nov. 25.
High, Jurjen S., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Reproducing device. 1,782,781; Nov. 25.
Highway Trailer Company. (See Helms, Harry W., assignor.)
Hildebrand, James L. (See Sneierson, S. L., and Hildebrand.)
Hill, Charles A., assignor to Mueller Brass Co., Port Huron, Mich. Method of and apparatus for reshaping deformed pipe ends. 1,783,088; Nov. 25.
Hill, Roy L., Tamaqua, Pa., assignor to Darco Corporation, Wilmington, Del. Purifying water and apparatus therefor. 1,782,850; Nov. 25.
Hill, Willoughby F., New York, N. Y. Container cover. 1,782,532; Nov. 25.
Hirsch, Alfred C. (See Krause, A. R., and Hirsch.)
Hirst, James E., assignor to The J. A. Fay & Egan Company, Cincinnati, Ohio. Woodworking machinery. 1,783,041; Nov. 25.
Hite, William B., jr., Webster Groves, Mo. Shock absorber. 1,782,533; Nov. 25.
Hobb, Samuel T., assignor to The Washburn Company, Worcester, Mass. Bottle holder. 1,782,962; Nov. 25.
Hoe, R., & Co. (See Baumgartner, August, assignor.)
Hoern, Joseph H., Saginaw, Mich., assignor to Wilcox-Rich Corporation. Piston-ring burr-removing device. 1,783,121; Nov. 25.
Hoffa, Erwin, and H. Heyna, Hochst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Trimethylthionaphthene vat dyestuffs. 1,782,724; Nov. 25.
Hoffman, Andrew, assignor to Andrew Hoffman Manufacturing Company, Chicago, Ill. Window fastener. 1,782,896; Nov. 25.
Hoffman, Andrew, Manufacturing Company. (See Hoffman, Andrew, assignor.)
Hoffman, Ayers M. (See Hoffman, Benjamin P., and A. M.)
Hoffman, Benjamin P. and A. M., assignors to The Pierce Development Company, Tulsa, Okla. Oil saver. 1,782,851; Nov. 25.
Hoffman, John F., assignor to Baker Ice Machine Co. Inc., Omaha, Nebr. Refrigerating system. 1,782,651; Nov. 25.
Hoffman, John F., assignor to Baker Ice Machine Co. Inc., Omaha, Nebr. Refrigerating apparatus. 1,782,687; Nov. 25.
Hoffman, John F., assignor to Baker Ice Machine Co. Inc., Omaha, Nebr. Refrigerating system. 1,782,688; Nov. 25.
Hoffman, John F., assignor to Baker Ice Machine Co. Inc., Omaha, Nebr. Refrigerating apparatus. 1,782,689; Nov. 25.
Hofmann, Konrad, Essen, assignor to Fried. Krunn Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Purifying pig iron. 1,782,923; Nov. 25.
Hokin, Barney E., Chicago, Ill. Home golf game. 1,783,089; Nov. 25.
Holbrook, Gordon G., Maplewood, N. J. Steel hull and building the same. 1,782,422; Nov. 25.
Holinger, Emil F., assignor to Hudson Electrical Heating Corporation, New York, N. Y. Electric heater. 1,782,825; Nov. 25.
Hollins, Jack, Rosemount, Middlewich, assignor to Imperial Chemical Industries Limited, London, England. Electrodeposition of metals. 1,782,614; Nov. 25.
Holzworth, George, Halifax, Mass. Flowerpot stand or similar article. Des. 82,607; Nov. 25.
Hook, Ira T., New Haven, assignor to The American Brass Company, Waterbury, Conn. Cable and connecter therefor. 1,783,016; Nov. 25.
Hoosier Lamp and Stamping Corporation. (See Moll, Walter, assignor.)
Hopff, Heinrich. (See Schuster, K., and Hopff.)
Hopwood, Carrie S., Hinsdale, Mont. Workholder. 1,782,615; Nov. 25.
Horlacher, Albert F., Fredonia, N. Y. Selector mechanism. 1,783,122; Nov. 25.
Hornsey, John W., Summit, N. J., assignor to Granular Iron Company, Conveyer. 1,782,423; Nov. 25.
Hotchkiss, E. H., Company. (See Polzer, Fridolin, assignor.)
Howard, Emory G., Dudley, assignor to Koehler Manufacturing Company, Marlboro, Mass. Athletic shoe and cleat therefor. 1,782,569; Nov. 25.
Howard, Frank C., Chicago, Ill. Heater for vehicles. 1,782 652; Nov. 25.
Howard & Bullough Limited. (See Blackburn, J. H., and Bancroft, assignors.)
Howe, Edward B., Olympia Fields, Ill. Type-page frame. 1,783,042; Nov. 25.
Howell, Albert S., assignor to The Bell & Howell Company, Chicago, Ill. Strip-perforating machine. 1,782,570; Nov. 25.
Hudgin, Charles E., Chicago, assignor to S. E. Lingle, Evanston, Ill. Form clamp. 1,782,897; Nov. 25.
Hudson Electrical Heating Corporation. (See Holinger, Emil F., assignor.)
Hudson Manufacturing Co. (See Kegler, Anton W., assignor.)
Hukill, Henry D., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake device. 1,782,571; Nov. 25.
Hulin, Paul L., Grenoble, assignor to Societe Anonyme Compagnie de Produits Chimiques et Electrometallurgiques Alais, Froges et Camarque, Paris, France. Electrolytic apparatus for refining aluminum and for like processes. 1,782,616; Nov. 25.
Hunt, George C., assignor to The Savutime Devices, Inc., Rochester, N. J. Control device for heating systems. 1,782,653; Nov. 25.

Hunter, Carl E., and De L. Lutz, Memphis, Tenn. Casting machine. 1,782,898; Nov. 25.

Hunter, Richard B., Shorewood, assignor, by mesne assignments, to Cutler-Hammer Inc., Milwaukee, Wis. Motor controller. 1,782,424; Nov. 25.

Huonker, Fredreck C., Dayton, Ohio. Adjustable stand and rack. 1,782,617; Nov. 25.

Hurlburt, Henry F., jr. (See Williams, David C., assignor.)

Huther Bros. Saw Manufacturing Company. (See Huther, Warren B., assignor.)

Huther, Warren B., assignor to Huther Bros. Saw Manufacturing Company, Rochester, N. Y. Dado saw. 1,782,507; Nov. 25.

Hvid, Rasmus M., Chicago, Ill. Compressor construction for ice machines. 1,783,017; Nov. 25.

Hyland, George H. (See Glaze, H. L., assignor, and Stanford.)

Hyland, George H. (See Stanford, F. G., and Baker, assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Klingemann, F., Lommel, Korten, and Goost, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Schuster, K., and Hopff, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Wietzel, G., Jannek, and Fried, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Wietzel, Rudolf, assignor.)

Illinois Carton & Label Company. (See Johnson, Norman O., assignor.)

Imperial Chemical Industries Limited. (See Hollins, Jack, assignor.)

Inman, Ulysses A., Long Beach, Calif. Shock absorber. 1,782,725; Nov. 25.

International Combustion Engineering Corporation. (See Davidson, Philip, assignor.)

International Harvester Company. (See Benjamin, Bert R., assignor.)

International Harvester Company. (See Robinson, Charles W., assignor.)

International Harvester Company. (See Smith, D. W., and Webber, assignors.)

International Nickel Company, The. (See Shipley, G. B., and Allnder, assignors.)

International Nickel Company, The. (See Siefert, W. C., and Pawel, assignors.)

International Shoe Company. (See Parker, John A., assignor.)

Inventia Patent-Verwertungs-Gesellschaft. (See Wenner-Gren, Axel L., assignor.)

Ives, Charles A., Lawrence Park, Pa., assignor to General Electric Company. Air-brake system. 1,783,043; Nov. 25.

Ives Corporation, The. (See Ives, Harry C., assignor.)

Ives, Harry C., assignor, by mesne assignments, to The Ives Corporation, Bridgeport, Conn. Electric connector for toy train tracks. 1,782,991; Nov. 25.

Ivey, Henry B., Goldsboro, N. C. Vanity case. 1,782,726; Nov. 25.

Jackson, Joseph B., Milford, assignor to Draper Corporation, Hopedale, Mass. Weft stop mechanism for looms. 1,782,782; Nov. 25.

Jackson, Ray P. (See Miller, F. H., and Jackson.)

Jaenichen, Louis, Springfield Township, Oakland County, Mich., assignor to The Standard Computing Scale Company. Weighing scale. 1,782,654; Nov. 25.

James, Alvin E., Waycross, Ga. Aerovehicle. 1,782,508; Nov. 25.

James, Joseph H., Pittsburgh, Pa., assignor to C. P. Byrnes, trustee, Sewickley, Pa. Manufacture of solvents. 1,782,963; Nov. 25.

James, Joseph H., Pittsburgh, assignor to C. P. Byrnes, trustee, Sewickley, Pa. Solvent and making the same. 1,782,964; Nov. 25.

Jameson, Peter, West Quincy, Mass. Pitman or connecting-rod construction. 1,782,655; Nov. 25.

Janda, Rudolph W., Berwyn, assignor to Conlon Corporation, Cicero, Ill. Clutch. 1,782,572; Nov. 25.

Janke, August W. (See Radloff, E. E., and Janke.)

Jannek, Josef. (See Wietzel, G., Jannek, and Fried.)

Janowitch, Joseph H., Brooklyn, N. Y. Shirt-collar stiffener. Re17,885; Nov. 25.

Jantzen, Fred, Bronx, N. Y. Towel cabinet. 1,783,149; Nov. 25.

Jauch, Robert J., Fort Wayne, Ind. Paper-strip-controlling mechanism. 1,782,618; Nov. 25.

Jeffery, Rupert G., Nashua, N. H. Fastener for door panels. 1,783,150; Nov. 25.

Jeffray, John, Ealing, London, England. Manufacture of splinterless glass. 1,782,852; Nov. 25.

Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Lighter. Des. 82,608; Nov. 25.

Jensch, Heinrich, Hochst-on-the-Main, and O. Eisleb, Hofheim-on-the-Taunus, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Basic nitro derivatives of 9 aminoacridine and preparing the same. 1,782,727; Nov. 25.

Jessup, Richard D., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for coating strands. 1,782,425; Nov. 25.

Jipp, August, Berlin-Spandau, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Receiving telegraphic signals. 1,782,534; Nov. 25.

Johansson, Johan E., assignor to Aktiebolaget Gotaverken, Gottenborg, Sweden. Gas-generating combustion engine. 1,783,018; Nov. 25.

Johnson, Albert M., assignor to Barnes Drill Company, Rockford, Ill. Machine tool. 1,782,573; Nov. 25.

Johnson, Albert M., assignor to Barnes Drill Company, Rockford, Ill. Honing machine. 1,783,019; Nov. 25.

Johnson, Algot F., Minneapolis, Minn. Road grader. 1,782,992; Nov. 25.

Johnson, Charles E., Muskegon, Mich. Piston ring. 1,782,427; Nov. 25.

Johnson, Charles E., Muskegon, Mich. Oil-conserving piston. 1,782,428; Nov. 25.

Johnson, Charles E., Muskegon, assignor to The Piston Ring Company, Muskegon Heights, Mich. Piston ring. 1,782,426; Nov. 25.

Johnson, John F., assignor to Weber Costello Company, Chicago Heights, Ill. Movable meridian for globes. 1,782,924; Nov. 25.

Johnson, Lawrence L., Los Angeles, Calif. Aeroplane. 1,782,965; Nov. 25.

Johnson, Manfred J., assignor to Dictaphone Corporation, Bridgeport, Conn. Device for electrically recording telephonic sounds and conversations and system therefor. 1,782,619; Nov. 25.

Johnson, Norman O., assignor to Illinois Carton & Label Company, Chicago, Ill. Collapsible tube protector. 1,782,429; Nov. 25.

Johnson, William S. (See Tyler, J. G., Taylor, and Johnson.)

Jones, Archdale J., New York, N. Y., assignor to B. Darrach, A. D. Marks, and F. J. Foster. Casing or similar container. Des. 82,609; Nov. 25.

Jones, Edwin W., Lincoln, England, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Heat-transfer device. 1,782,574; Nov. 25.

Jones, William A., West New Brighton, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Making drums. 1,782,899; Nov. 25.

Jones, Wyatt J., Niles Center, Ill., assignor of one-half to G. S. Noble, Chicago, Ill. Footwear. 1,782,620; Nov. 25.

Jonsson, Anders J., Linkoping, Sweden. Machine for making and applying caps to bottles and the like. 1,782,900; Nov. 25.

Jordan, Hans, Berlin-Steglitz, assignor to Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Producing products of hydrogenation of alkylated phenols. 1,782,621; Nov. 25.

Jordan, Hans, Berlin-Steglitz, assignor to Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Production of alkylated phenols. 1,782,966; Nov. 25.

Jorss, Karl F., Washington, D. C., assignor to Crittall Casement Window Company, Detroit, Mich. Window-screen structure. 1,782,853; Nov. 25.

Joyce, Bryan P., Davenport, Iowa. Packing. 1,782,656; Nov. 25.

Junas, Paul, jr., Lansford, Pa. Haircloth. 1,782,925; Nov. 25.

Junillon, Louis C., and H. F. Gillot, Lyon, France. Silk-twisting mill and like machine. 1,782,967; Nov. 25.

Kassel, Morris B., Brooklyn, N. Y. Cutting device. 1,782,901; Nov. 25.

Keech, Dana E., Glendale, Calif. Fruit distributor. 1,782,826; Nov. 25.

Kegler, Anton W., assignor to Hudson Manufacturing Co., Minneapolis, Minn. Pressure-tank cap. 1,782,657; Nov. 25.

Kell, Francis, & Son, Inc. (See Dowling, Francis J., assignor.)

Kell, Francis, & Son, Inc. (See Hansen, Herman, assignor.)

Kell, Ray D. (See Alexanderson, E. F. W., and Kell.)

Keller, Albert T., Bethlehem, Pa., assignor to Bethlehem Steel Company. Rolling tubes. 1,782,968; Nov. 25.

Kellogg, Edward W., Schenectady, N. Y., assignor to General Electric Company. Reproducer. 1,783,044; Nov. 25.

Kellogg, Edward W., Schenectady, N. Y., assignor to General Electric Company. Contact film printer. 1,783,045; Nov. 25.

Kell gg Switchboard and Supply Company. (See Currier, Hiram D., assignor.)

Kelly, John A., Brooklyn, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. 1,782,759; Nov. 25.

Kelly, Walter J., and M. P. Burns, Fairfield, and A. Barr, Wylam, Ala. Recuperator. 1,782,430; Nov. 25.

Kerr, Franklin H., Toledo, Ohio. Agricultural tool. 1,782,690; Nov. 25.

Kerr, Richard W. (See Gaskill, William R., assignor.)

Kestell, Thomas A. (See Woodcock, R. B., and Kestell.)

Keystone Driller Company. (See Hazen, Earl A., assignor.)

Kiedrowski, John A., Chicago, Ill. Fountain pen. 1,783,090; Nov. 25.

Kiefer, Karl, Cincinnati, Ohio. Exercising apparatus. 1,782,728; Nov. 25.

Kilian, Frederick K., Syracuse, N. Y. Antifriction roller. 1,782,622; Nov. 25.

Kimball, James L., Beverly, assignor to Ruggles-Klingemann Mfg. Co., Salem, Mass. Method of and apparatus for controlling boiler feed water. 1,782,926; Nov. 25.

King Manufacturing Company, The. (See Roe, Ernest S., assignor.)

Kirchner, Walter, assignor to Chemische Fabrik Grünau Landshoff & Meyer Aktiengesellschaft, Berlin-Grunau, Germany. Accelerating the hardening of hydraulic binding means. 1,782,471; Nov. 25.

Kirkpatrick, John, Clarksburg, assignor to Hazel-Atlas Glass Co., Wheeling, W. Va. Sherbet. Des. 82,610; Nov. 25.

Kirschbraun, Lester, Leonia, N. J., assignor, by mesne assignments, to The Patent and Licensing Corporation, Boston, Mass. Edge-finishing fabricated roofing elements. 1,782,535; Nov. 25.

Kirschbraun, Lester, Leonia, N. J., assignor, by mesne assignments, to The Patent and Licensing Corporation, Boston, Mass. Edge-finishing fabricated roofing elements. 1,782,536; Nov. 25.

Kitson Company. (See Lovekin, Luther D., assignor.)

Kiviaho, Joel, Marshfield, Oreg. Hose-clamp-applying tool. 1,783,123; Nov. 25.

Klein, Clarence J., Bellevue, assignor to United Engineering and Foundry Company, Pittsburgh, Pa. Bearing. 1,782,969; Nov. 25.

Klingemann, Felix, Mainkur near Frankfort-on-the-Main, W. Lommel, Wiesdorf, near Cologne-on-the-Rhine, E. Korten, Fechenheim near Frankfort-on-the-Main, and T. Goost, Leverkusen, near Cologne-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft. Catalytically hydrogenating aromatic amino compounds and products produced thereby. 1,782,729; Nov. 25.

Kloss, Ulrich, Berlin, Germany. Direct-current railway system. 1,782,537; Nov. 25.

Kneass, Strickland, jr., Sewickley, assignor to Costello Engineering Company, Pittsburgh, Pa. Valve. 1,782,970; Nov. 25.

Knight, Octavius, Westfield, N. J. Nonregenerative radio circuits. 1,782,993; Nov. 25.

Knott, Frank W., assignor to Knott & Garllus Company, Detroit, Mich. Massaging-machine cabinet. 1,783,170; Nov. 25.

Knott, Frank W., assignor to Knott & Garllus Company, Detroit, Mich. Electric massaging machine. 1,783,171; Nov. 25.

Knott & Garllus Company. (See Knott, Frank W., assignor.)

Knowlson, James S., Hinsdale, assignor to Speedway Manufacturing Company, Chicago, Ill. Electric power device. 1,782,927; Nov. 25.

Knowlson, James S., Hinsdale, assignor to Speedway Manufacturing Company, Cicero, Ill. Humidifier. 1,782,928; Nov. 25.

Knutson, Tillferd P. (See Franklin, Ralph E., assignor.)

Koch & Te Kock. (See Liebender, Gottlieb, assignor.)

Koehler Manufacturing Company. (See Howard, Emory G., assignor.)

Koehring Company. (See Russell, Leslie A., assignor.)

Kohler, Gustavus A. E. (See Rust, James E., assignor.)

Koontz, Victor R., assignor to Landis Machine Company, Waynesboro, Pa. Die head. 1,782,472; Nov. 25.

Kornblum, Morris, assignor to Metal Lamp Corporation, Brooklyn, N. Y. Table lamp. Des. 82,611; Nov. 25.

Korten, Ernst. (See Klingemann, F., Lommel, Korten, and Goost.)

Kotrbaty, Guy F., New York, N. Y. Rail. 1,782,902; Nov. 25.

Kotzebue, Meinhard H., Tulsa, Okla., assignor to Trumble Gas Trap Company. Crude-oil and natural-gas separator. 1,782,783; Nov. 25.

Kozlowski, Leon, Union City, assignor of one-half to T. Puschett, Jersey City, N. J. Electric-fixture device. 1,783,020; Nov. 25.

Kramer, Henry W., Kingston, assignor to R. P. Young, Marlboro, N. Y. Handle for wooden baskets. 1,782,431; Nov. 25.

Krannak, Steven J., Minneapolis, Minn. Grease-gun-coupling head. 1,782,691; Nov. 25.

Krase, Herbert J. (See Hetherington, H. C., and Krase.)

Krasney, George, Chicago, Ill. Collar button. 1,782,509; Nov. 25.

Krause, Arnold R., and A. C. Hirsch, assignors to Gillette Rubber Company, Eau Claire, Wis. Tube-stock feeding, measuring, and cutting machine. 1,782,658; Nov. 25.

Krause, Norman R. (See MacGregor, W. F., and Krause.)

Kridel, J., Sons & Co. (See Bader, Fred W., assignor.)

Kroemer, Joseph E., St. Paul, Minn. Twine dispensing and cutting device. 1,782,971; Nov. 25.

Kurtz, Charles F., Rock Island, Ill., assignor, by mesne assignments, to L. J. Shields, St. Paul, Minn. Coin-operated vending machine. 1,782,659; Nov. 25.

Labaugh, James M., Paterson, N. J., assignor to American Telephone and Telegraph Company. Casing for a telephone substation set. Des. 82,612; Nov. 25.

Labaugh, James M., Paterson, N. J., assignor to American Telephone and Telegraph Company. Casing for a telephone substation set. Des. 82,613; Nov. 25.

Lahr, Marcus A., Tulsa, Okla. Wheel aligner. 1,782,827; Nov. 25.

Lamb, Arthur B., trustee. (See Hetherington, H. C., and Krase, assignors.)

Lamb, Thomas, Woodlea, and W. R. Sharp, Glenesk, England. Advertisement sign. 1,782,854; Nov. 25.

Lamont, Jesse L., Geneseo, Ill. Signal device. 1,783,124; Nov. 25.

Landis Machine Company. (See Koontz, Victor R., assignor.)

Lang, Bert E., Spokane, Wash. Tire-chain lock. 1,782,510; Nov. 25.

Lapointe, Albert A., West Hartford, assignor to The Silent Glow Oil Burner Corporation, Hartford, Conn. Oil burner. 1,782,730; Nov. 25.

Laramie, Victor J., Detroit, Mich. Milk-bottle cap. 1,782,731; Nov. 25.

Larkin, David, Webster Groves, Mo. Strainer. 1,782,538; Nov. 25.

Lawlor, John J. (See Morris, T. O., and Lawlor.)

Lawson, John F., Brooklyn, N. Y., assignor, by mesne assignments, to Steel and Tubes, Inc. Cutting machine. 1,782,692; Nov. 25.

Leach, William W., Mansfield, Ohio. Loading crane. 1,783,021; Nov. 25.

Lebby, States L., assignor to Corning Glass Works, Corning, N. Y. Cover glass. 1,782,732; Nov. 25.

Leffel, James, & Company, The. (See Swindler, Harry M., assignor.)

Lenander, Nils E., Trondhjem, assignor to Orkla Grube-Aktiebolag, Lokken Verk, near Trondhjem, Norway. Separation of cobalt and iron from solutions rich in iron as obtained by lixiviating roasted pyrites. 1,783,046; Nov. 25.

Leupold, Mathias, Jamaica, N. Y. Resilient tire. 1,783,091; Nov. 25.

Levin, Harold L., Nutley, N. J., assignor to The Flintkote Company, Boston, Mass. Felted fibrous products and method of manufacture. 1,782,855; Nov. 25.

Lewis, Basil C., assignor to The Frederick Iron & Steel Company, Frederick, Md. Agitator for coal hoppers. 1,783,092; Nov. 25.

Liebender, Gottlieb, assignor to Koch & te Kock, Olsnits, Germany. Card-saving motion. 1,783,125; Nov. 25.

Lilleberg, Tideman M., assignor to Nye Tool & Machine Works, Chicago, Ill. Vise. 1,782,929; Nov. 25.

Lilleberg, Tideman M., assignor to Nye Tool & Machine Works, Chicago, Ill. Vise. 1,782,930; Nov. 25.

Lilley, Daniel G., Denver, Colo. Golf club. 1,782,931; Nov. 25.

Lilly, Scott H., Toledo, Ohio. Bag-filling method and apparatus. 1,782,733; Nov. 25.

Lindgren, Bror J., assignor to Niagara Machine and Tool Works, Buffalo, N. Y. Machine for beading and flanging metal barrels. 1,782,994; Nov. 25.

Lingle, Samuel E. (See Hudgin, Charles E., assignor.)

Lippmann, Max, assignor to S. Pfeiffer Manufacturing Company, St. Louis, Mo. Carton. Des. 82,614; Nov. 25.

Liquid Carbonic Corporation, The. (See Mohler, Valentine J., assignor.)

Little, John O., New York, N. Y. Combined letter and envelope stuffer. 1,783,022; Nov. 25.

Loeffler, Louis J., Stapleton, N. Y. Hand telephone. Des. 82,615; Nov. 25.

Lommel, Wilhelm. (See Klingemann, F., Lommel, Korten, and Goost.)

López-Osorio, Felix, Buenos Aires, Argentina. Transformable motor-car body. 1,782,998; Nov. 25.

Lovekin, Luther D., Ardmore, assignor to Kitson Company, Philadelphia, Pa. Emergency cartridge-type shut-off valve. 1,782,760; Nov. 25.

Lucich, Anton, St. Louis, Mo. Electric scissors. 1,782,473; Nov. 25.

Ludwig, Louis, Brooklyn, N. Y. Attachment plug. Des. 82,616; Nov. 25.

Lutz, De L. (See Hunter, C. E., and Luts.)

Lynch, Frank J., Hillside, N. J., assignor to Pinaud, Inc., New York, N. Y. Collapsible tube. Des. 82,640; Nov. 25.

Lynch, John P., Los Angeles, Calif. Extractor cover. 1,782,575; Nov. 25.

Lysholm, Alf, Stockholm, assignor to Aktiebolaget Ljungströms Angturbin, Lidingo-Brevik, Sweden. Turbine-driven locomitive. 1,783,126; Nov. 25.

Maanum, Dedrick A., Minneapolis, Minn., assignor, by mesne assignments, to Cherry-Burrell Corporation, Wilmington, Del. Can-cleaning-machine heater. 1,782,876; Nov. 25.

Macallum, Alexander D., Perth Amboy, N. J. Synthesis of diacetyl-3,3'-diamino-4,4'-dihydroxy-5,5'-diiodoarsenobenzene. 1,782,432; Nov. 25.

MacDougald, Alexander, assignor to MacDougald Construction Company, Atlanta, Ga. Concrete-distributing apparatus. 1,782,734; Nov. 25.

MacDougald Construction Company. (See MacDougald, Alexander, assignor.)

Macgregor, Corânne, Cleveland Heights, Ohio. Construction of small ornamental figures or dolls. 1,782,576; Nov. 25.

MacGregor, Peter G., Pequanock, assignor to Pyrene Manufacturing Company, Newark, N. J. Fire extinguisher. 1,782,539; Nov. 25.

MacGregor, Wallace F., and N. R. Krause, assignors to J. I. Case Company, Racine, Wis. Sack chute for harvester-thrashers. 1,782,995; Nov. 25.

Machtolf, Josef, assignor to the firm Chr. Hostimann-Steinberg' Sche Farbenfabriken G. m. b. H., Celle, Germany. Process of and system for splitting hydrocarbons such as acetylene or the like. 1,782,540; Nov. 25.

MacKenzie, John A., Los Angeles, Calif. Fluid-treating apparatus. 1,782,735; Nov. 25.

Madden, Thomas E., Newark, N. J. Inked stamp. 1,782,877; Nov. 25.

Mahaffey, Dwight W., Morral, Ohio. Bag holder. 1,782,736; Nov. 25.

Mahon, Lee H., Norphlet, Ark. Casing suspension head. 1,782,737; Nov. 25.

Manning, Fred W., Berkeley, Calif., assignor, by mesne assignments, to Filter Fabrics, Inc., Boston, Mass. Reenforced filter paper and making same. 1,782,784; Nov. 25.

Manning, Fred W., Beverly Hills, Calif., assignor, by mesne assignments, to Filter Fabrics, Inc., Boston, Mass. Making filter papers and filter fabrics. 1,782,785; Nov. 25.

Marcus, Samuel, Brooklyn, assignor to Markon Manufacturing Co., Inc., New York, N. Y. Tongue and teeth set for dolls and the like. 1,782,433; Nov. 25.

Maris, Ralph W., Long Beach, Calif. Hand sandpaper holder. 1,782,577; Nov. 25.

Markham, Charles M., Indianapolis, Ind. Adjustable shore. 1,782,903; Nov. 25.

Markon Manufacturing Co. (See Marcus, Samuel, assignor.)

Markon Manufacturing Co. Inc. (See Grubman, Leo J., assignor.)

Markon Manufacturing Co. Inc. (See Wilhelm, John H., assignor.)

Marks, Alan D., et al. (See Jones, Archdale J., assignor.)

Marshall, Lewis C., Walope, Mass. Making steel piston rings. 1,783,047; Nov. 25.

Martin, Chester C., Luckey, Ohio, assignor, by mesne assignments, to St. Regis Paper Company, New York, N. Y. Valve bag. 1,782,738; Nov. 25.

Martin, Eugene. (See Stone, E. W., and Martin.)

Martin, Samuel G., West Somerville, Mass., assignor to The Barrett Company. Cutter. 1,783,023; Nov. 25.

Marx, Louis, New York, N. Y. Toy. 1,782,786; Nov. 25.

Maschinenfabrik Rüti vormals Casper Honegger. (See Egli, Ernst, assignor.)

Master Wire Lath Company. (See Hicks, William D., assignor.)

Mathewson, Maxwell I. (See Copland, A. W., and Mathewson.)

Matosian, Suren, Los Angeles, Calif. Furniture stand. Des. 82,643; Nov. 25.

McArthur, Clarence M., Detroit, Mich. Toothbrush. 1,783,151; Nov. 25.

McAuliffe, John E., assignor to Triangle Conduit Company, Brooklyn, N. Y. Armored conductor. 1,782,787; Nov. 25.

McCarty, Robert B., Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa. Lute. 1,782,932; Nov. 25.

McCaslin, Clifford H., Oakland, Calif. Folding table. 1,782,623; Nov. 25.

McClellan, Harry S., assignor to Chrysler Corporation, Detroit, Mich. Stenciling. 1,782,541; Nov. 25.

McCormick Brothers Company. (See McCormick, Ora N., assignor.)

McCormick, Ora N., assignor to McCormick Brothers Company, Albany, Ind. Flour bin for kitchen cabinets. 1,783,127; Nov. 25.

McCrosson, John T., Port au Prince, Haiti. Canning pineapple and product thereof. 1,782,761; Nov. 25.

McCullough, Robet Y., Schenectady, N. Y. Control system. 1,783,048; Nov. 25.

McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Foot valve device. 1,782,578; Nov. 25.

McGee, William C., Gastonia, assignor to B. A. Smith, Kings Mountain, N. C. Gravity oiling mechanism for spinning frames and the like. 1,782,624; Nov. 25.

McGuire, Lee R., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Table construction. 1,782,434; Nov. 25.

McKay, John, assignor to Hard Manufacturing Company, Buffalo, N. Y. Bedstead end frame or analogous article. Des. 82,617; Nov. 25.

McKay, John, assignor to Hard Manufacturing Company, Buffalo, N. Y. Bedstead end frame or analogous article. Des. 82,618; Nov. 25.

McKay, John, assignor to Hard Manufacturing Company, Buffalo, N. Y. Bedstead end frame or analogous article. Des. 82,619; Nov. 25.

McKay, John, assignor to Hard Manufacturing Company, Buffalo, N. Y. Bedstead end frame or analogous article. Des. 82,620; Nov. 25.

McLaughlin, Daniel P., Chicago, Ill. Flying machine. 1,783,024; Nov. 25.

McLaughlin, William I., assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Time-controlled compass indicator. 1,782,474; Nov. 25.

McWhirter, William C., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electric lock. 1,782,788; Nov. 25.

McWilliams, William W. (See Bowly, H. W., and McWilliams.)

Mechanics Universal Joint Company. (See Waisner, Horace L., assignor.)

Meissner, Alexander, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Antenna. 1,783,025; Nov. 25.

Mekelburg, Earl F. (See Campbell, H. E., and Mekelburg.)

Menasha Products Company, The. (See Gardner, George H., assignor.)

Mergenthaler Linotype Company. (See Quest, Alfred W. F., assignor.)

Merian, Frederic, and J. W. Cruikshank, Pittsburgh, Pa., assignors, by mesne assignments, to Pilkington Brothers Limited, Lancashire, England. Plate-glass polishing apparatus. 1,782,475; Nov. 25.

Merriam, Henry F., West Orange, N. J., assignor to General Chemical Company, New York, N. Y. Apparatus for cooling fluids. 1,782,435; Nov. 25.

Metal Lamp Corporation. (See Kornblum, Morris, assignor.)

Metal Specialties Manufacturing Co. (See Hermann, Wolfgang, assignor.)

Metro-Goldwyn-Mayer Corporation. (See De Vinna, Clyde, assignor.)

Meyer, Herbert A., Buffalo, N. Y. Confection wrapper. 1,782,856; Nov. 25.

Meyer, William, Chicago, Ill. Stand and mounting. 1,782,660; Nov. 25.

Michell, Anthony G. M., Melbourne, Australia, assignor, by mesne assignments, to Michell-Crankless Engines Corporation, New York, N. Y. Construction of operating crankless internal-combustion and explosion engines. Re17,879; Nov. 25.

Michell-Crankless Engines Corporation. (See Michell, Anthony G. M., assignor.)

Michelman, Nathan, Brooklyn, N. Y. Grating. 1,782,789; Nov. 25.

Michigan Steel Casting Company. (See Gorham, Marvine, assignor.)

Midgett, Penelton G., Dallas, Tex. Animal trap. 1,782,661; Nov. 25.

Milks, Elbert D., Salamanca, N. Y. Necktie clip. 1,783,049; Nov. 25.

Miller, Charles, Long Island City, and M. Feinstein, Corona, N. Y.; said Feinstein assignor to said Miller. Heel-attaching means. 1,782,436; Nov. 25.

Miller, Ernest B., and G. C. Connolly, assignors to The Silica Gel Corporation, Baltimore, Md. Obtaining a catalytic gel. 1,782,857; Nov. 25.

Miller, Frank E., New York, N. Y. Electrical tone producer with universal audion. 1,782,542; Nov. 25.

Miller, Frederic H., Wilkinsburg, Pa., and R. P. Jackson, Berkley, Calif., assignors to Westinghouse Electric and Manufacturing Company. Insulator. 1,782,790; Nov. 25.

Miller, Henry, and B. B. Betts, St. Louis, Mo.; said Betts assignor to said Miller. Heating device for railroad switches. 1,782,164; Nov. 25.

Miller, Stuart P., Philadelphia, Pa., assignor to The Barrett Company. Sulphur and resin compound. 1,782,693; Nov. 25.

Mills, John W. (See Muirhead, J. R., and Mills.)

Mishawaka Rubber & Woolen Manufacturing Company. (See Winterhalter, Martin, assignor.)

Moehler, Otto J., Bloomfield, assignor to General Electric Vapor Lamp Company, Hoboken, N. J. Combined support and housing for an electric discharge device. Des. 82,639; Nov. 25.

Mohler, Valentine J., Wheaton, assignor, by mesne assignments, to The Liquid Carbonic Corporation, Chicago, Ill. Bottle-crowning machine. 1,782,904; Nov. 25.

Mohun, John L., and H. Piesch, Omaha, Nebr., assignors to National Lock Washer Company, Newark, N. J. Bottom bar for curtains. 1,782,905; Nov. 25.

Molins, Walter E., Deptford, London, England. Cigarette-making machine. 1,783,093; Nov. 25.

Moll, Walter, assignor to Hoosier Lamp and Stamping Corporation, Evansville, Ind. Oven door. 1,782,739; Nov. 25.

Monro, William L., assignor to Window Glass Machine Company, Pittsburgh, Pa. Method and apparatus for making sheet glass. 1,782,972; Nov. 25.

Monroe Calculating Machine Company. (See Smith, Frank M., assignor.)

Monroe, Finley, Emmett, Idaho. Elevator. 1,782,933; Nov. 25.

Moody, Gilbert D., Weyauwega, Wis. Apparatus for stacking ore and similar material. 1,782,996; Nov. 25.

Moore, William D., and W. Morgan, Birmingham, Ala., assignors to Sand Spun Patents Corporation, New York, N. Y. Centrifugal casting machine. 1,783,094; Nov. 25.

Morgan Construction Company. (See Bradley, Anson K., assignor.)

Morgan Construction Company. (See Sheperdson, John W., assignor.)

Morgan, Guy, assignor to The Warford Corporation, New York, N. Y. Power-transmitting mechanism. 1,782,543; Nov. 25.

Morgan, Walter. (See Moore, W. D., and Morgan.)

Morgan, Walter, assignor to American Cast Iron Pipe Company, Birmingham, Ala. Ladle-tipping device for casting machines. 1,783,128; Nov. 25.

Morrill, Wayne J., Fort Wayne, Ind., assignor to General Electric Company. Magnetic core. 1,783,050; Nov. 25.

Morris, Thomas O., Harrisburg, Pa., and J. J. Lawlor, Plainfield, N. J., assignors, by mesne assignments, to Automatic Molding Machine Corporation, Dover, Del. Molding machine. 1,782,762; Nov. 25.

Morrow, Emmet H., Chicago, Ill., assignor to Automatic Oilingseal Corporation. Attachment for oil cans. 1,782,579; Nov. 25.

Moses, Amaziah J., and F. H. Wright, assignors to The Casey-Hedges Company, Chattanooga, Tenn. Handhole plate. 1,783,129; Nov. 25.

Mosgrove, Charles A., Waterbury, assignor to The Autoyre Company, Oakville, Conn. Swinging-arm towel rack. 1,782,828; Nov. 25.

Moskowitz, Ben Z., assignor, by mesne assignments, to Pilot Radio & Tube Corporation, Brooklyn, N. Y. Vacuum-tube socket. 1,782,437; Nov. 25.

Moto Meter Gauge & Equipment Corporation. (See Gochnauer, Walter E., assignor.)

Mould, James A., Milwaukee, Wis. Internal-combustion engine. 1,782,740; Nov. 25.

Mueller Brass Co. (See Hill, Charles A., assignor.)

Muirhead, John R., Kirkcaldy, and J. W. Mills, Adelaide, South Australia, Australia. Device for pumping fluids. 1,783,095; Nov. 25.

Muller, Firm Johann Carl. (See Ohmsen, Richard C. J. A., assignor.)

Muntz, Eric P. (See Skaer, Arthur P., assignor.)

Muntz, Eric P., Buffalo, N. Y. Building. 1,782,997; Nov. 25.

Myers, Eugene V., East Orange, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Valve for pneumatic tires or the like. 1,782,580; Nov. 25.

Myers, Hubert A., Toledo, Ohio. Lighter. 1,782,544; Nov. 25.

Naamlooze Vennootschap Maatschappij tot Veraardiging van Snijmachines volgens Van Berkel's Patent en van andere Werktingen. (See van Duyn, Adrianus, assignor.)

Nagy, Charles, Hillside, N. J. Kite. 1,782,858; Nov. 25.

Narrow, Anton H., Memphis, Tenn. Keyboard cam roll. 1,782,694; Nov. 25.

Nash, Arthur E., Philadelphia, and J. S. Alcorn, Cynwyd, assignors to Alcorn Combustion Company, Philadelphia, Pa. Heat-transfer system. 1,782,829; Nov. 25.

National Air Brake Service, Inc. (See Ricketts, James R., assignor.)

National Aniline & Chemical Co. Inc. (See Geller, Leon W., assignor.)

National Brake & Electric Company. (See Beimling, William A., assignor.)

National Electric Products Corporation. (See Bennett, Inslee A., assignor.)

National Electric Products Corporation. (See Fullman, James M. G., assignor.)

National Electric Products Corporation. (See Sharp, L. Alan, assignor.)

National Lock Washer Company. (See Mobun, J. L., and Piesch, assignors.)

National Mfg. Co. (See Sneierson, S. L., and Hildebrand, assignors.)

National Supply Company, The. (See Spalding, John D., assignor.)

National Supply Company, The. (See Wright, Clyde S., assignor.)

Naunton, William J. S. (See Cronshaw, C. J. T., and Naunton.)

Neelmeier, Wilhelm. (See Bauer, Neelmeier, and Nocken.)

Neuberger, Franklin H., Endicott, N. Y., assignor of one-tenth to E. J. Brand, Jeffersonville, N. Y. Clothesline fastener. 1,782,625; Nov. 25.

Neufeldt & Kuhnke Betriebsgesellschaft m. b. H. (See Chappuzeau, H., and Emersleben, assignors.)

Neuschafer, Frederick, Jersey City, N. J., and H. Botwin, Brooklyn, N. Y. Carbonating machine. 1,782,511; Nov. 25.

Newman, Charles, New York, N. Y., and E. G. Appleton, assignors to Roach-Appleton Manufacturing Company, Chicago, Ill. Switch box. 1,782,545; Nov. 25.

Newman, Charles, New York, N. Y., and E. G. Appleton, assignors to Roach-Appleton Manufacturing Company, Chicago, Ill. Box-supporting ear. 1,782,546; Nov. 25

Newman, Morris S., Newark, N. J. Device for treating the stomach with ultra-violet rays. 1,782,906; Nov. 25.

Niagara Machine and Tool Works. (See Lindgren, Bror J., assignor.)

Nichols Products Corp. (See Sadwith, Ryan, assignor.)

Nicosia, Vincent N., Houston, Tex. Hair-drying apparatus. 1,782,626; Nov. 25.

Nielsen, John F., Long Island City, assignor to Western Electric Company, Incorporated, New York, N. Y. Remote control system. 1,782,907; Nov. 25.

Nielsen, Karl K., assignor to Alcor Manufacturing Company, Chicago, Ill. Adjustable fixture strap. 1,782,791; Nov. 25.

Niogret, Henri F., Lyon, France, assignor, by mesne assignments, to Du Pont Rayon Company, New York, N. Y. Apparatus for the manufacture of artificial silk. 1,782,581; Nov. 25.

Noble, F. H., & Co. (See Shields, John M., assignor.)

Noble, Glenn S. (See Jones, Wyatt J., assignor.)

Nocken, Theodor. (See Bauer, W., Neelmeier, and Nocken.)

Nolde and Horst Company, The. (See Weidner, John R., assignor.)

Norgren, Carl A., Denver, Colo. Lubricating device for pneumatically-operated tools. 1,782,741; Nov. 25.

Northwest Paper Company, The. (See Andrews, Dennis C., assignor.)

Nye Tool & Machine Works. (See Lilleberg, Tideman M., assignor.)

Ober, William R., Llanerch, Pa. Transplanting device. 1,783,026; Nov. 25.

Ohl, Russell S., New York, N. Y., assignor to American Telephone and Telegraph Company. Piezo-electric oscillator. 1,783,130; Nov. 25.

Ohl, Russell S., New York, N. Y., assignor to American Telephone and Telegraph Company. Mounting for piezo-electric devices. 1,783,131; Nov. 25.

Ohl, Russell S., New York, N. Y., assignor to American Telephone and Telegraph Company. Mounting for piezo-electric devices. 1,783,132; Nov. 25.

Ohle, Heinz, and J. Othmar-Neuscheller, Berlin, Germany. Ethyl alcohol-gel. 1,783,133; Nov. 25.

Ohmsen, Richard C. J. A., assignor to Firm Johann Carl Muller, Dresden, Germany. Cigar-making machine. 1,782,627; Nov. 25.

Oldham, Nile, Chicago, Ill. Roll-screen construction. 1,783,052; Nov. 25.

Olsen, Olaf C., Dayton, assignor of two-thirds to The Borden Company, Warren, Ohio. Refrigerating apparatus. 1,782,628; Nov. 25.

Olsson, Alfred, Guytasa, Sweden. Combined cultivator harrow. 1,782,934; Nov. 25.

O'Massey, Richard H., assignor of one-half to E. Padia, Denver, Colo. Aeroplane. 1,782,878; Nov. 25.

Orenstein, Max, Berlin, Germany. Continuous soldering. 1,783,134; Nov. 25.

Orkla Grube-Aktiebolag. (See Lenander, Nils E., assignor.)

Orndoff, Herbert W., assignor to The E. V. Benjamin Co., Inc., New Orleans, La. Bag-turning machine. 1,782,935; Nov. 25.

Oswald, Marcel, Nanterre, France, assignor to Compagnie Lorraine de Charbons pour l'Electricite, Paris, France. Carbon for electro-technical uses and manufacture thereof. 1,783,135; Nov. 25.

Othmar-Neuscheller, Johanna. (See Ohle, H., and Othmar-Neuscheller.)

Oudin, Ferdinand, Riverside, and B. H. Skinner, Berwyn, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Clamping device. 1,782,438; Nov. 25.

Oudin, Ferdinand, Riverside, and B. H. Skinner, Berwyn, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Clamping device. 1,782,439; Nov. 25.

Oudin, Ferdinand, Riverside, and B. H. Skinner, Berwyn, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Clamping device. 1,782,440; Nov. 25.

Overbey, Floyd M., Leavenworth, Kans. Chair. 1,782,763; Nov. 25.

Owens-Illinois Glass Company. (See Wilson, Ben H., assignor.)

Padelford, Lester E., assignor to The Republic Metalware Company, Buffalo, N. Y. Toasting-machine casing. Des. 82,621; Nov. 25.

Padia, Eloy. (See O'Massey, Richard H., assignor.)

Paisley, James A., assignor to The Valley Camp Coal Company, Cleveland, Ohio. Mining lamp. 1,783,136; Nov. 25.

Pajeau, Charles H., Glencoe, assignor to The Toy Tinkers, Inc., Evanston, Ill. Rotary blotter. 1,782,792; Nov. 25.

Palmer, Albert F. (See Palmer, John B., assignor.)

Palmer, John B., assignor of one-half to A. F. Palmer, Fort Wayne, Ind. Reel. 1,783,159; Nov. 25.

Palmer, John E., et al. (See Breitling, Adolf, assignor.)

Palmer, William, assignor of one-half to E. W. Astels, Buffalo, N. Y. Combined ironing board and table. 1,783,051; Nov. 25.

Pape, Floyd N., Clinton, Iowa. Shield for motor-vehicle headlights. 1,782,629; Nov. 25.

Paper Service Company, The. (See Rowe, William W., assignor.)

Paragon Vaporizer Corporation. (See Brush, Frederick F., assignor.)

Parker, Charles A., Haugan, Mont. Hose clamp. 1,782,476; Nov. 25.

Parker, John A., assignor to International Shoe Company, St. Louis, Mo. Die. 1,782,999; Nov. 25.

Parker Pen Company, The. (See Blackman, Horace L., assignor.)

Parkin, Winfred T., assignor to Theodore W. Foster & Brother Co., Providence, R. I. Loose-powder container. 1,783,160; Nov. 25.

Parks, Charles D., Danbury, Conn. Felting. 1,782,764; Nov. 25.

Parks, Charles D., Danbury, Conn. Felting. 1,782,765; Nov. 25.

Parlini, Alexander C., Woodside, assignor to Gotham Knitting Machine Corporation. Holder for reknitting fabrics. 1,782,879; Nov. 25.

Paschen, Paul, and W. Gebhardt, Nuremberg, assignors to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Apparatus for indicating speed variations. 1,783,000; Nov. 25.

Patent and Licensing Corporation, The. (See Kirschbraun, Lester, assignor.)

Paull, Erwin J., Brooklyn, N. Y., assignor to Doehler Furniture Co. Inc. Night table or the like. Des. 82,622; Nov. 25.

Paull, Erwin J., Brooklyn, N. Y., assignor to Doehler Furniture Co Inc. Chest of drawers or the like. Des. 82,623; Nov. 25.

Pawel, George W. (See Siefert, W. C., and Pawel.)

Peabody, Donald C. (See Sayres, C., and Peabody.)

CARNEGIE LIBRARY OF ATLANTA

Pearce, William J., McKeesport, Pa. Butter-cutting machine. 1,783,096; Nov. 25.
Pearmain, William J., assignor to Twin Disc Clutch Company, Racine, Wis. Friction clutch. 1,782,880; Nov. 25.
Peek, Frank W., jr., Pittsfield, Mass., assignor to General Electric Company. Electric discharge device. 1,783,052; Nov. 25.
Peerless Supply Company. (See Puckett, William H., assignor.)
Penecke, Walther, Graz, Austria, assignor to F. Bensa, Genoa, Italy. Manufacturing a green vat dyestuff from 1,12 perylene quinone. 1,783,137; Nov. 25.
Peneff, Georg, Berlin-Wilmersdorf, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Tiller. 1,783,153; Nov. 25.
Penn-Union Electric Corporation. (See Stoeltzlen, Charles L., assignor.)
Perego, James A., Elizabeth, La. Auxiliary soap-cake cover. 1,782,859; Nov. 25.
Perkins, Brayton M., Mounds, Utah. Order crane. 1,782,936; Nov. 25.
Perlmutter, Harry, Brooklyn, N. Y. Body suspension for baby carriages. 1,782,742; Nov. 25.
Perry, Stanley, assignor to Automatic Burner Corporation, Chicago, Ill. Controlling mechanism for oil burners. 1,782,937; Nov. 25.
Persons, Charles A., assignor to Persons-Majestic Manufacturing Company, Worcester, Mass. Ball-bearing pedal for bicycles, etc. 1,782,973; Nov. 25.
Persons-Majestic Manufacturing Company. (See Persons, Charles A., assignor.)
Petersen, Aage V., Frederiksberg, by Copenhagen, Denmark. Transforming of acoustic swinglings into electric capacity swinglings. 1,783,138; Nov. 25.
Pfeifer, Walter S., Shorewood, Wis., assignor, by mesne assignments, to The Reliance Company, Wilmington, Del. Starting device for synchronous motors. 1,782,908; Nov. 25.
Pfeiffer, S., Manufacturing Company. (See Lippmann, Max, assignor.)
Philippossian, Charles, Geneva, Switzerland. Alloy. 1,783,139; Nov. 25.
Phillips, Joseph, Denver, Colo. Radio and television cabinet. Des. 82,624; Nov. 25.
Piccione, Angelo, Buffalo, N. Y. Stationary shaving cup. 1,782,793; Nov. 25.
Pierce Development Company, The. (See Hoffman, Benjamin P. and A. M., assignors.)
Pierce, James B., jr., assignor to Barium Reduction Corporation, Charleston, W. Va. Manufacture of strontium oxide. 1,782,830; Nov. 25.
Pierce, Leon, New York, N. Y., assignor to Pierce Steel Pile Corporation. Crane. Re17,886; Nov. 25.
Pierce Steel Pile Corporation. (See Pierce, Leon, assignor.)
Piesch, Henry. (See Mohun, J. L., and Piesch.)
Pike, Robert D., Piedmont, Calif. Apparatus for the electrodeposition of iron. 1,782,909; Nov. 25.
Pilkington Brothers Limited. (See Merian, F., and Cruikshank, assignors.)
Pilot Radio & Tube Corporation. (See Geloso, John, assignor.)
Pilot Radio & Tube Corporation. (See Moskowitz, Ben Z., assignor.)
Pilot Radio & Tube Corporation. (See Ramsdell, Russell, assignor.)
Pinaud, Inc. (See Lynch, Frank J., assignor.)
Pineno, Stephen. (See Colantuono, M., and Pineno.)
Piquerez, Emile, Paris, France, assignor to Alemite Corporation, Chicago, Ill. Lubricant compressor. 1,782,441; Nov. 25.
Piston Ring Company, The. (See Johnson, Charles E., assignor.)
Plass, Robert H., Montclair, assignor to The Chapal Donner Corporation, Newark, N. J. Pelt-dehairing machine. 1,782,662; Nov. 25.
Plastic, Inc. (See Burgess, Laurie L., assignor.)
Pletcher, Delmer I., Long Beach, Calif. Hypodermic syringe. 1,782,938; Nov. 25.
Polcari, Basilio, Somerville, Mass. Sanitary doorknob. 1,783,097; Nov. 25.
Polzer, Fridolin, assignor to The E. H. Hotchkiss Company, Norwalk, Conn. Operating device for stapling machines, tag-affixing machines, and similar devices. 1,782,743; Nov. 25.
Porcelier Manufacturing Company. (See Dym, Jacob, assignor.)
Potyie, Frigyes, Philadelphia, Pa. Plastering machine. 1,783,098; Nov. 25.
Powers, James, deceased, Sierra Madre, Calif., S. Powers, executrix. Selecting machine. 1,782,442; Nov. 25.
Powers, Sophie, executrix. (See Powers, James.)
Pratt, Seely F., assignor, by mesne assignments, to Union Chest and Cabinet Corporation, Rochester, N. Y. Receptacle provided with trays. 1,782,630; Nov. 25.
Prescott Company, The. (See Grueter, William B., assignor.)
Prez, Robert M., assignor to Reo Motor Car Company, Lansing, Mich. Fastener for trimming material. 1,782,695; Nov. 25.
Price, Herbert E., Seattle, Wash. Animated toy. 1,782,477; Nov. 25.
Price, Mary K., executrix. (See Price, William G.)
Price, William G., deceased, Yakima, Wash.; M. K. Price, executrix. Hydraulic braking apparatus. 1,782,663; Nov. 25.
Prosperity Company, The. (See Simpson, George F., assignor.)
Publicker, Inc. (See Haner, Carl, assignor.)
Puckett, William H., assignor to Peerless Supply Company, Tulsa, Okla. Stuffing box. 1,782,696; Nov. 25.
Puschett, Theresa. (See Kozlowski, Leon, assignor.)
Pyrene Manufacturing Company. (See MacGregor, Peter G., assignor.)
Quaker Oats Company. (See Ufford, Helen, assignor.)
Quaker Silver Company. (See Jennings, James W., assignor.)
Quinliven, Matthew S., Los Angeles, Calif. Fireplace air heater. 1,783,140; Nov. 25.
Radio Corporation of America. (See Hansell, Clarence W., assignor.)
Radloff, Erwin E., and W. Janke, assignors to C. B. Henschel Mfg. Co., Milwaukee, Wis. Attachment for bronzing machines. 1,782,88[illegible]; Nov. 25.
Radloff, Johannes, Berlin, Germany, assignor to General Electric Company. Piston for internal-combustion engines. 1,783,054; Nov. 25.
Raetz, Guglielmo, Cordenons, Italy. Apparatus for making weaving knots. 1,783,001; Nov. 25.
Rah, Joseph, assignor to G. & W. Electric Specialty Co., Chicago, Ill. Conductor disconnecter arrangement. 1,782,547; Nov. 25.
Ramsdell, Russell, Poughkeepsie, N. Y., assignor, by mesne assignments, to Pilot Radio & Tube Corporation, Lawrence, Mass. Tube shield. 1,782,443; Nov. 25.
Ramsdell, Russell, Poughkeepsie, N. Y., assignor, by mesne assignments, to Pilot Radio & Tube Corporation, Lawrence, Mass. Inductance. 1,782,444; Nov. 25.
Randolph, Leonard M., Newark, N. J. Rotary engine. 1,782,766; Nov. 25.
Randolph, Samuel D., Fort Worth, Tex. Power-saving jack. 1,782,512; Nov. 25.
Rawlings, Samuel J. (See Grimley, John P., assignor.)
Raymond, Horace H., Berlin, assignor to The Stanley Works, New Britain, Conn. Hinge leaf. Des. 82,625; Nov. 25.
Raymond, Horace H., Berlin, assignor to The Stanley Works, New Britain, Conn. Hinge. 1,782,582; Nov. 25.
Regents of the University of Michigan, The. (See White, Alfred H., assignor.)
Reifsnyder, Frederick R., Pittsburgh, Pa. Shock absorber. 1,782,631; Nov. 25.
Reipert, Ernst, Nowawes, near Potsdam, assignor to Askania-Werke Aktiengesellschaft vormals Centralverkstatt Dessau und Carl Bamberg-Friedenau, Berlin-Friedenau, Germany. Apparatus for making exposures of the path or route of flying machines or the like. 1,782,860; Nov. 25.
Reis, Curt F., assignor to Excel Magneto Company, Chicago, Ill. Magneto. 1,782,939; Nov. 25.
Reliance Company, The. (See Pfeifer, Walter S., assignor.)
Renault, Louis. (See Saives, Leon, assignor.)
Reo Motor Car Company. (See Prez, Robert M., assignor.)
Republic Metalware Company, The. (See Padelford, Lester E., assignor.)
Reschke, William F., Wichita, Kans. Mechanical movement. 1,782,697; Nov. 25.
Resinous Products & Chemical Company, The. (See Bruson, Herman A., assignor.)
Reuter, Henry C., Chicago, Ill. Frame for windows or the like. Des. 82,626; Nov. 25.
Reyrolle, A., & Company Limited. (See Allan, Archibald, assignor.)
Rial, Wirt D., Wilmington, and W. R. Barratt, Palos Verdes Estates, assignors, by mesne assignments, to Richfield Oil Company of California, Los Angeles, Calif. Recovering waste clays. 1,782,744; Nov. 25.
Richfield Oil Company of California. (See Rial, W. D., and Barratt, assignors.)
Ricketts, James R., Richmond, Calif., assignor to National Air Brake Service, Inc., Reno, Nev. Triple-valve reamer. 1,782,910; Nov. 25.
Ridgely Heater Company. (See Vasey, George F., assignor.)
Rieber, Frank, San Francisco, Calif. System and method for geophysical exploration. 1,782,445; Nov. 25.
Ries, Henry J., Iowa City, Iowa. Paper clip. 1,783,099; Nov. 25.
Rippey, Samuel H., Philadelphia, Pa. Vacuum-cleaner nozzle. 1,782,882; Nov. 25.
Roach-Appleton Manufacturing Company. (See Newman, C., and Appleton, assignors.)
Robert, Nelson J., Lynchburg, Va. Shoe counter. 1,782,632; Nov. 25.
Robertson, Laurence, Toledo, Ohio. Crank disk. 1,782,746; Nov. 25.
Robinson, Charles W., Hamilton, Ontario, Canada, assignor, by mesne assignments, to International Harvester Company, Chicago, Ill. Grain drill. 1,782,583; Nov. 25.
Robinson, Ralph, administrator. (See Talbutt, R. H., and Allner.)
Rodney Hunt Machine Company. (See Biggs, George A., assignor.)
Roe, Ernest S., assignor to The King Manufacturing Company, Plymouth, Mich. Air gun. 1,782,664; Nov. 25.
Rohde, Otto C., assignor to Champion Spark Plug Company, Toledo, Ohio. Shielded spark plug. 1,782,745; Nov. 25.
Roos, Delmar G., assignor to The Studebaker Corporation, South Bend, Ind. Internal-combustion engine. 1,782,513; Nov. 25.
Rosenband, Albert, assignor to The Rosenband Manufacturing Co., Newark, N. J. Clasp for pocketbooks and the like. 1,782,665; Nov. 25.
Rosenband Manufacturing Co., The. (See Rosenband, Albert, assignor.)
Rosenfeld, Louis, Baltimore, Md., assignor to Cherry-Burrell Corporation, Chicago, Ill. Milk cooler. 1,783,100; Nov. 25.
Rosenfield, Edward M., New York, N. Y. Control for electric advertising signs. 1,782,883; Nov. 25.
Ross, Albert S., Dallas, Tex. Money changer. 1,782,666; Nov. 25.
Rowe, William W., Cincinnati, assignor to The Paper Service Company, Lockland, Ohio. Creping process. 1,782,767; Nov. 25.
Rowse, Frank J., Pawtucket, R. I. Coin-operated vending machine. 1,782,768; Nov. 25.
Royal, Thomas M., Philadelphia, Pa. Making paper bags. 1,782,884; Nov. 25.
Royalty Holding Corporation. (See Hasselbring, John, jr., assignor.)
Rozières, Jean A. L., assignor of one-half to Societe Française de Centrifugation, Paris, France. Apparatus for recovering fats from emulsions containing solid particles. 1,782,974; Nov. 25.
Ruggles-Klingemann Mfg. Co. (See Kimball, James L., assignor.)
"Rusbol," Société à Responsabilité Limitée. (See Bolard, Alfred J. G., assignor.)
Rush, Milton A., San Francisco, Calif. Radio leg rest. Des. 82,642; Nov. 25.
Russ Manufacturing Company, The. (See Seitz, Dean C., assignor.)
Russell, Charles L., Rahway, N. J., assignor to The Hess-Bright Manufacturing Company, Philadelphia, Pa. Cage for ball bearings. 1,783,141; Nov. 25.
Russell, Joseph W. (See Bronson, E. G., and Russell.)
Russell, Leslie A., assignor to Koehring Company, Milwaukee, Wis. Hoe-type shovel crane. 1,783,055; Nov. 25.
Russell, Leslie A., assignor to Koehring Company, Milwaukee, Wis. Instroke shovel crane. 1,783,056; Nov. 25.
Rust, James E., Park Ridge, assignor to G. A. E. Kohler, Chicago, Ill. Switch for devices for supplying paper to printing presses. 1,782,698; Nov. 25.
Ruth, Charles H., Huntington Park, assignor, by mesne assignments, to Ruth Dredger Manufacturing Corporation, Ltd., Los Angeles, Calif. Ditch-digging machine. 1,782,478; Nov. 25.
Ruth Dredger Manufacturing Corporation, Ltd. (See Ruth, Charles H., assignor.)
Ryan, John T., Detroit, Mich. Tire-valve dust cap and locking mechanism therefor. 1,782,584; Nov. 25.
Sadtler, Wilhelm, Bad Homburg, Germany. Toy weapon. 1,782,479; Nov. 25.
Sadwith, Ryan, Newark, N. J., assignor to Nichols Products Corp., New York, N. Y. Wall and partition construction for insulating purposes. 1,782,794; Nov. 25.
St. Regis Paper Company. (See Martin, Chester C., assignor.)
Saives, Leon, assignor to L. Renault, Billancourt, France. Apparatus for igniting internal-combustion engines. 1,782,940; Nov. 25.
Sand Spun Patents Corporation. (See Moore, W. D., and Morgan, assignors.)
Sanitary Products Corporation of America. (See Fine, Bernard M., assignor.)
Sauvage, Stanley, Chicago, Ill. Heat distributor or plate. 1,782,699; Nov. 25.
Savino, Camillo, City Island, N. Y. Bottle closure. 1,783,207; Nov. 25.
Savoye, Charles U., Hackensack, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Superheater. 1,782,585; Nov. 25.
Savutime Devices, Inc. (See Hunt, George C., assignor.)
Sayres, Clinton, and D. C. Peabody, Philadelphia, Pa., assignor to The J. G. Brill Company. Load-regulating means. 1,783,142; Nov. 25.
Schaefer, Adolph O., assignor to Atlantic Service Company, Inc., Brooklyn, N. Y. Toilet-paste-tube compressor. 1,783,101; Nov. 25.
Schaer, Charles, Langenthal, assignor to the firm of Sulzer Frères Société Anonyme, Winterthur, Switzerland. High-pressure reciprocating compressor. 1,782,975; Nov. 25.
Schaub, Jacob, Westfield, N. J., assignor to Best Foods, Inc., New York, N. Y. Coloring material for oleomargarine, butter, and the like. 1,783,154; Nov. 25.
Scheele, Edwin H., New York, N. Y., assignor to Westfield River Paper Company, Inc., Russell, Mass. Embossed glassine paper. Des. 82,627; Nov. 25.
Scheuchzer, Auguste, Renens, Switzerland. Device for shunting vehicles off a main line of track. 1,782,941; Nov. 25.
Schiltz, Bernard P., Cleveland, Ohio. Flexible driving connection for tool holders. 1,782,633; Nov. 25.
Schmidt, Robert E., Elberfeld, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Splitting off sulphogroups from anthraquinone sulphonic acid derivatives. 1,782,747; Nov. 25.

Schnell, William, assignor to Ternstedt Manufacturing Company, Detroit, Mich. Dome light or the like for an automotive vehicle. Des. 82,628; Nov. 25.
Schrader's, A., Son, Incorporated. (See Myers, Eugene V., assignor.)
Schrempp, Albert, Dusseldorf, Germany. Filter device. 1,783,143; Nov. 25.
Schröder, Edmund, Berlin, Germany. Three-phase one-phase converter, especially for electric resistance heating and welding machines. 1,782,634; Nov. 25.
Schultz, Alfred W., assignor to The Zeidler Concrete Products Machinery Company, Waterloo, Iowa. Machine and method for constructing concrete pipe. 1,782,446; Nov. 25.
Schuster, Kurt, and H. Hopff, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Preservation of latex. 1,783,057; Nov. 25.
Scott, Irving G., and M. C. Fox, New York, N. Y. Wall pot holder. Des. 82,629; Nov. 25.
Scovill Manufacturing Company. (See Fenton, Paul E., assignor.)
Scrantom, De Hart G., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Forming electrical terminal members. 1,782,447; Nov. 25.
Scrimgeour, John, Toronto, Ontario, Canada. Lip-stick device. 1,782,911; Nov. 25.
Seagrave Corporation, The. (See Havens, Homer M., assignor.)
Seeley, Harold T., Lansdowne, Pa., assignor to General Electric Company. Regulating system. 1,782,514; Nov. 25.
Seitz, Dean C., Cleveland, Ohio, assignor to The Russ Manufacturing Company. Draft arm for a soda fountain. Des. 82,630; Nov. 25.
Seward, Ernest R., Detroit, Mich., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Centerless grinding machine. 1,782,480; Nov. 25.
Sharman, Herbert B., and A. E. Burrage, Northampton, England. Vacuum cleaner. 1,783,058; Nov. 25.
Sharp, L. Alan, Avalon, Pa., assignor to National Electric Products Corporation, New York, N. Y. Duct end outlet aligning means. 1,782,548; Nov. 25.
Sharp, William R. (See Lamb, T., and Sharp.)
Shelhamer, Lester W., Oak Park, Ill. Truck load sections or trays. 1,782,667; Nov. 25.
Sheperdson, John W., assignor to Morgan Construction Company, Worcester, Mass. Method and apparatus for the manufacture and conditioning of skelp bar. 1,782,700; Nov. 25.
Sheridan, Clarence F., Detroit, Mich. Quick-change punch and holder therefor. 1,783,028; Nov. 25.
Shields, John M., assignor to F. H. Noble & Co., Chicago, Ill. Jewelry container. Des. 82,646; Nov. 25.
Shields, L. J. (See Kurtz, Charles F., assignor.)
Shipley, Grant B., and H. Allnder, Pittsburgh, Pa., assignors, by mesne assignments, to The International Nickel Company, Inc., New York, N. Y. Annealing furnace. 1,782,481; Nov. 25.
Short, Samuel F., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Guarding and guiding attachment for tools. 1,782,448; Nov. 25.
Siebert, William, assignor of one-half to H. Wigge, Chicago, Ill. Anchor. 1,782,449; Nov. 25.
Siefert, William C., and G. W. Pawel, Clearfield, Pa., assignors, by mesne assignments, to International Nickel Company, Inc., New York, N. Y. Apparatus for heating a pickling solution. 1,782,482; Nov. 25.
Siemens & Halske, Aktiengesellschaft. (See Jipp, August, assignor.)
Siemens-Schuckertwerke Aktiengesellschaft. (See Deetjen, Richard, assignor.)
Siemens-Schuckertwerke Aktiengesellschaft. (See Paschen, P., and Gebhardt, assignors.)
Siemens-Schuckertwerke Aktiengesellschaft. (See Peneff, Georg, assignor.)
Sigg, Joseph A., Pittsburgh, Pa. Screw driver. 1,782,515; Nov. 25.
Silbersack, Arthur. (See Broeman, Frank C., assignor.)
Silent Glow Oil Burner Corporation, The. (See Lapointe, Albert A., assignor.)
Silica Gel Corporation. (See Miller, E. B., and Connolly, assignors.)
Simpson, Emory G., assignor to Ternstedt Manufacturing Company, Detroit, Mich. Curtain roller. 1,783,002; Nov. 25.
Simpson, George F., Boston, Mass., assignor to The Prosperity Company, Inc., Syracuse, N. Y. Woven-wire-cloth covering for pressing-machine elements. Re17,883; Nov. 25.
Skaer, Arthur P., assignor to E. P. Muntz, Buffalo, N. Y. Storage bin. 1,783,003; Nov. 25.
Skinner, Benjamin H. (See Oudin, F., and Skinner.)
Slaght, Ace W., near San Jose, Calif. Radiosignaling. 1,782,831; Nov. 25.
Smith, Alfred B. [illegible]d C. R., Wolverhampton, England. Mixing apparatus. 1,782,795; Nov. 25.
Smith, Bennet A. (See McGee, William C., assignor.)
Smith, Clifford R. (See Smith, Alfred B. and C. R.)

Smith, Daniel W., Oak Park, and W. Webber, La Grange, Ill., assignors to International Harvester Company. Binder hitch. 1,782,586; Nov. 25.
Smith, Frank M., West Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Attachment for calculating machines. 1,783,172; Nov. 25.
Smith, Harry A. (See Coufal, J. F., and Smith.)
Smith, Helen H., St. Louis, Mo. Pattern. 1,783,004; Nov. 25.
Smith, Irving J., Baltimore, Md. Artificial stone and making the same. 1,782,748; Nov. 25.
Smoot, Charles H., Maplewood, N. J. Regulator. 1,782,832; Nov. 25.
Sneierson, Samuel L., Boston, and J. L. Hildebrand, Lynn, assignors to National Mfg. Co., Boston, Mass. Electric switch. 1,782,516; Nov. 25.
Snook, Homer C., South Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Eliminating noise in machinery. 1,782,912; Nov. 25.
Snyder, Clifford L. (See Tucker, M. D., and Snyder.)
Snyder, Frank L., assignor to The White Motor Company, Cleveland, Ohio. Form-rolling machine. 1,782,483; Nov. 25.
Soc. An. Officine Di Villar Perosa. (See Boella, Giovanni, assignor.)
Societe Anonyme Compagnie de Produits Chimiques et Electrometallurgiques Alais, Froges et Camarque. (See Hulin, Paul L., assignor.)
Societe Francaise de Centrifugation. (See Roziéres, Jean A. L., assignor.)
Societe Nationale pour l'Etude des Transports Aeriens, Societe Anonyme. (See Florine, Nicolas, assignor.)
Society of Chemical Industry in Basle. (See Gubler, Hans, assignor.)
Society of Chemical Industry in Basle. (See Gubler, H., De Montmollin, and Spieler, assignors.)
Söderqvist, William O. N., Lidköping, Sweden. Spring-operated shade roller. 1,782,976; Nov. 25.
Söderqvist, William O. N., Lidköping, Sweden. Metallic shade roller. 1,782,977; Nov. 25.
Soto, Rosario, Oxnard, Calif. Power generator. 1,782,517; Nov. 25.
Souter, Eugene H., Independence, assignor to The Car-Record Company, Kansas City, Mo. Record-carrying device for automobiles. 1,782,942; Nov. 25.
Spalding, John D., Grafton, Pa., assignor, by mesne assignments, to The National Supply Company, Toledo, Ohio. Rotary well-drilling machine. 1,782,769; Nov. 25.
Speedway Manufacturing Company. (See Knowlson, James S., assignor.)
Spencer, Reginald W., South Kirkby, near Pontefract, and H. P. Harris, Sutton Coldfield, England. Pipe joint. 1,782,484; Nov. 25.
Spieler, Joseph. (See Gubler, H., De Montmollin, and Spieler.)
Spieth, William C., Geneva, Ohio. Electric-arc lamp. 1,782,485; Nov. 25.
Spilman, James E., Wartrace, Tenn. Animal trap. 1,783,144; Nov. 25.
Spitzer, Edwin E., Schenectady, N. Y., assignor to General Electric Company. Rectifying alternating current. 1,783,059; Nov. 25.
Stadler, Edward H., St. Louis, and G. E. Dillingham, Richmond Heights, Mo. Printer's chase for checks and the like. 1,782,587; Nov. 25.
Stancill, Robert B., Dalton, Ga. "Jerked in" filling eliminator. 1,782,749; Nov. 25.
Stanciffe, Cecil W., Aldwych, London, England. Boiler and furnace. 1,782,635; Nov. 25.
Standard Cap & Seal Corporation. (See Tevander, Olof N., assignor.)
Standard Computing Scale Company, The. (See Jaenichen, Louis, assignor.)
Standard Oil Company. (See McLaughlin, William I., assignor.)
Stanford, Forrest G. (See Glaze, H. L., and Stanford.)
Stanford, Forrest G., and G. Baker; said Baker assignor to G. H. Hyland, Los Angeles, Calif. Liquid-display apparatus. 1,782,943; Nov. 25.
Stanford, Forrest G., and G. Baker; said Baker assignor to G. H. Hyland, Los Angeles, Calif. Liquid-display fountain. 1,782,944; Nov. 25.
Stanley Works, The. (See Raymond, Horace H., assignor.)
Stansfield, Emilio, Bergamo, and E. Brunner, Milan, Italy. Drawing frame. 1,782,549; Nov. 25.
Steel and Tubes, Inc. (See Lawson, John F., assignor.)
Stelzer, William, Chicago, Ill., assignor to Bendix Aviation Corporation, New York, N. Y. Airplane control. 1,782,750; Nov. 25.
Stephenson, Hugh M., Fort Wayne, Ind., assignor to General Electric Company. Sewing-machine-feeding mechanism. 1,783,060; Nov. 25.
Steps, Robert A., Los Angeles, Calif. Screen pipe and making same. 1,782,518; Nov. 25.
Stewart, Albert E., assignor to Acme-Knitting Machine & Needle Company, Franklin, N. H. Sinker for knitting machines. 1,782,486; Nov. 25.
Stewart, Alexander W., Glasgow, Scotland. Ventilating apparatus. 1,783,005; Nov. 25.
Stewart, Carson R., Akron, Ohio, assignor to United States Chain & Forging Company, Pittsburgh, Pa. Traction device for tires. 1,783,161; Nov. 25.
Stewart-Warner Corporation. (See Wheeler, Leonard H., assignor.)
Stoeltzlen, Charles L., Erie, Pa., assignor to Penn-Union Electric Corporation. Connecter. Re17,880; Nov. 25.
Stokes, Douglas H., Cremorne, near Sydney, New South Wales, Australia. Electrically-operated lawn mower. 1,782,636; Nov. 25.
Stone, Edwin W., Longmeadow, Mass., and E. Martin, Suffield, assignors to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn. Electrically-driven loom. 1,782,945; Nov. 25.
Straube, John F., Elkhorn, assignor of one-fourth to N. Swanson, Fremont, Nebr. Spike-drawing device. 1,782,487; Nov. 25.
Stuart, William W., Des Moines, Iowa, assignor to Franklin Oil Heating Incorporated, Columbus, Ohio. Oil Burner. 1,782,668; Nov. 25.
Studebaker Corporation, The. (See Roos, Delmar G., assignor.)
Sullivan, Daniel F., assignor of one-half to J. P. Furey, Lowell, Mass. Stop motion for knitting machines. 1,782,550; Nov. 25.
Sullivan, James A., Persey City, N. J. Automobile lamp. 1,782,551; Nov. 25.
Sulzer Frères Société Anonyme. (See Eisenburger, Kuno, assignor.)
Sulzer Frères Société Anonyme. (See Schaer, Charles, assignor.)
Sun Oil Company. (See Thomas, Henry, assignor.)
Supplee, Samuel G., West Orange, N. J. Porcelain-faced crown. 1,782,552; Nov. 25.
Sutton, Charles D., Waterbeach, assignor to Cambridge Instrument Company, Limited, London, England. Electric meter. 1,782,519; Nov. 25.
Swanson, Nels. (See Straube, John F., assignor.)
Swarner, Joseph D., Kansas City, Kans. Closure operator. 1,782,978; Nov. 25.
Swindler, Harry M., Dayton, assignor to The James Leffel & Company, Springfield, Ohio. Intermittent driving mechanism. 1,782,520; Nov. 25.
Sylva, John J. (See Chickester, O. F., and Sylva.)
Talbutt, Robert H., deceased, by R. Robinson, administrator, and F. A. Allner, Baltimore, Md. Roasting apparatus. 1,782,946; Nov. 25.
Talley, Randal E., Irwin, assignor to George J. Hagan Company, Pittsburgh, Pa. Electric heating furnace. 1,783,153; Nov. 25.
Talley, Randal E., Irwin, assignor to George J. Hagan Company, Pittsburgh, Pa. Heat-treating apparatus. 1,783,156; Nov. 25.
Taylor, Burt E., Mount Vernon, assignor to The Borden Company, New York, N. Y. Machine for applying cement to can tops. 1,782,450; Nov. 25.
Taylor, Charles C. (See Tyler, J. G., Taylor, and Johnson.)
Taylor, Harvey B., Philadelphia, Pa. System of speed governing for prime movers. 1,783,157; Nov. 25.
Taylor, Harvey B., Philadelphia, Pa. System of speed governing. 1,783,162; Nov. 25.
Teague, Walter D., New York, assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-shutter cover. Des. 82,631; Nov. 25.
Teague, Walter D., New York, assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-shutter cover. Des. 82,632; Nov. 25.
Technidyne Corporation. (See Flanzer, Joseph A., assignor.)
Teich, Ernest L., assignor to The American Hardware Corporation, New Britain, Conn. Push bar for doors. Des. 82,633; Nov. 25.
Terman, Frederick E., Stanford University, Calif. Electrical measuring instrument. 1,782,588; Nov. 25.
Ternstedt Manufacturing Company. (See Schnell, William, assignor.)
Ternstedt Manufacturing Company. (See Simpson, Emory G., assignor.)
Tevander, Olof N., assignor to Standard Cap & Steel Corporation, Chicago, Ill. Machine and method for applying closures. 1,782,553; Nov. 25.
Texas Company, The. (See Dearborn, Richard J., assignor.)
Texas Company, The. (See Greig, Arthur R., assignor.)
Thatcher, Charles J., New York, N. Y. Purifying anthracene. 1,782,488; Nov. 25.
Thies, Frank. (See Thies, John and F.)
Thies, John and F., Hutchinson, Kans. Wheel-lug cleaner. 1,782,637; Nov. 25.
Thiry, Leon, Brussels, Belgium. Oscillating joint. 1,782,770; Nov. 25.
Thomas Elevator Company. (See Wilson, Alexander H., assignor.)
Thomas, Henry, Ridley Park, assignor to Sun Oil Company, Philadelphia, Pa. Tube still furnace. 1,782,885; Nov. 25.
Thomas, Louis G. L., Chicago, Ill. Automatic control for heating plants. 1,782,489; Nov. 25.
Thompson, Robert J., Paris, France. Fold collar. 1,782,913; Nov. 25.
Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Ophthalmic lens. Re17,887; Nov. 25.
Tool, Harold W., Murdock, Nebr. Animal chute for automobile trucks. 1,782,554; Nov. 25.
Torgerson, Theodore L., Oroville, Calif. Adjustable door hinge. 1,782,490; Nov. 25.
Totzek, Fritz, Stoppenberg near Essen-on-the-Ruhr, Germany. Coke-oven wall structure. 1,782,638; Nov. 25.

Townsend, Elvin E., Watsonville, Calif. Speedometer-testing machine. 1,782,914; Nov. 25.
Toy Tinkers, Inc., The. (See Pajeau, Charles H., assignor.)
Trachsel, Fritz, Bern, assignor to Chr. Gfeller Aktiengesellschaft, Bern-Bumpliz, Switzerland. Automatic telephone-exchange system. 1,782,491; Nov. 25.
Traver, Oliver C., Schenectady, N. Y., assignor to General Electric Company. Protective arrangement. 1,783,061; Nov. 25.
Trencham, Henry, Ruislip, England, assignor to General Electric Company. Electric switch. 1,783,062; Nov. 25.
Triangle Conduit Company. (See McAuliffe, John E., assignor.)
Trombetta, Panfilo, Milwaukee, Wis., assignor to General Electric Company. Magnetic core. 1,782,521; Nov. 25.
Trumble Gas Trap Company. (See Kotzebue, Meinhard H., assignor.)
Tuck, Russell F., Long Beach, Calif. Derrick safety appliance. 1,782,701; Nov. 25.
Tucker, Max D., and C. L. Snyder, assignors to The Evans Auto Loading Co. Inc., Detroit, Mich. Reenforced hold-down for loading automobiles and other vehicles. 1,783,102; Nov. 25.
Turner, Albert, assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding machinery. 1,782,669; Nov. 25.
Twin Disc Clutch Company. (See Pearmain, William J., assignor.)
Tyler, John G., C. C. Taylor, and W. S. Johnson, assignors to California Peach & Fig Growers Association, Fresno, Calif. Fig-sterilization apparatus. 1,782,522; Nov. 25.
Ude, William C., East Haven, Conn. Collapsible tube. 1,782,980; Nov. 25.
Ufford, Helen, New York, N. Y., assignor to Quaker Oats Company, Chicago, Ill. Sugar bowl or similar article. Des. 82,634; Nov. 25.
Ufford, Helen, New York, N. Y., assignor to Quaker Oats Company, Chicago, Ill. Cup or similar article. Des. 82,635; Nov. 25.
Underwood, Western Santa Monica, Calif. Street lamp. Des. 82,636; Nov. 25.
Union Chest and Cabinet Corporation. (See Pratt, Seely F., assignor.)
Union Switch & Signal Company, The. (See McWhirter, William C., assignor.)
United Engineering & Foundry Company. (See Biggert, Florence C., jr., assignor.)
United Engineering and Foundry Company. (See Klein, Clarence J., assignor.)
United Shoe Machinery Corporation. (See Bazzoni, Lewis J., assignor.)
United Shoe Machinery Corporation. (See Gorman, Henry B., assignor.)
United Shoe Machinery Corporation. (See Kelly, John A., assignor.)
United Shoe Machinery Corporation. (See Woodcock, R. B., and Cook, assignors.)
United Shoe Machinery Corporation. (See Woodcock, R. B., and Kestell, assignors.)
United States Chain & Forging Company. (See Stewart, Carson R., assignor.)
Universal Oil Products Company. (See DeLattre-Seguy, Jean, assignor.)
Valley Camp Coal Company, The. (See Paisley, James A., assignor.)
Van Allen, Clifford, Canton, Ohio. Barbecuing machine. 1,782,639; Nov. 25.
Van Deren, George W., Elmira, N. Y. Universal joint. 1,782,492; Nov. 25.
Van Duyn, Adrianus, assignor to Naamlooze Vennootschap Maatschappij tot Veraardiging van Snijmachines volgens Van Berkel's Patent en van andere Werktingen, Rotterdam, Netherlands. Indicating means for weighing apparatus. 1,782,670; Nov. 25.
Van Heijst, Franciscus W., assignor to Commanditaire Vennootschap: J. B. van Heijst & Zonen, The Hague, Netherlands. Device for throwing at will projectiles from aircraft. 1,783,145; Nov. 25.
Van Loon, Johannes, Deventer, Netherlands. Active carbon and making same. 1,782,493; Nov. 25.
Vasey, George F., assignor to Ridgely Heater Company, Scranton, Pa. Heater. 1,782,947; Nov. 25.
Vaughn, Robert C., et al. (See Glenn, J. H., jr., and Bennett, assignors.)
Vazcane Process, Inc. (See Vazquez, Eugenio A., assignor.)
Vazquez, Eugenio A., Habana, Cuba, assignor to Vazcane Process, Inc. Cellulosic product. 1,782,751; Nov. 25.
Vernia, Ernest A., Odebolt, Iowa. Check-wire gauge for corn planters. 1,782,948; Nov. 25.
Vienneau, Jacob J., Pittsfield, Mass., assignor to General Electric Company. Magnetic core. 1,783,063; Nov. 25.
Vles, Samuel I., Arnhem, Netherlands. Production of partially-hydrolyzed cellulose acetates. 1,782,796; Nov. 25.
Von den Driesch, Joseph, Dresden, assignor to the Firm Fr. Küttner Aktiengesellschaft, Pirna-on-the-Elbe, Germany. Apparatus for washing, bleaching, and dyeing artificial silk in the hanks or spinning cakes. 1,783,103; Nov. 25.
Von Tell, Edward E., Gottenborg, Sweden. Clamping means. 1,782,979; Nov. 25.
Vorclone Company. (See Bruckmann, Peter C., assignor.)
Wachsmann, Paul, Berlin-Halensee, Germany, assignor to General Electric Company. Dynamo-electric machine. 1,783,064; Nov. 25.
Wagner, Frederick H., assignor to The Bartlett Hayward Co., Baltimore, Md. Gas holder. 1,782,861; Nov. 25.
Wagner, Frederick H., assignor to The Bartlett Hayward Company, Baltimore, Md. Liquid and gas contact apparatus. 1,782,862; Nov. 25.
Wagner, Frederick H., assignor to The Bartlett Hayward Company, Baltimore, Md. Gas holder. 1,782,949; Nov. 25.
Wahlert, Henry A., assignor to The American Brake Company, St. Louis, Mo. Brake cylinder. 1,782,589; Nov. 25.
Waisner, Horace L., assignor, by mesne assignments, to Mechanics Universal Joint Company, Rockford, Ill. Heat-treating furnace. 1,782,451; Nov. 25.
Wilder, Robert. (See Defris, R., and Wilder.)
Walker Cement Products, Inc. (See Dietrichs, Charles, assignor.)
Walker Dishwasher Corporation. (See Walker, Forrest A., assignor.)
Walker, Forrest A., assignor to Walker Dishwasher Corporation, Syracuse, N. Y. Mechanical dishwasher. 1,782,950; Nov. 25.
Waner, Harry E. (See Wilson, G. F., and Waner.)
Warden, Franklin M. (See Green, J. Birchard, assignor.)
Warford Corporation, The. (See Morgan, Guy, assignor.)
Waring, Edward H. (See Edmunds, H. M., and Waring.)
Warnock, Charles S., Los Angelcs, Calif. Ventilator for vehicles. Des. 82,645; Nov. 25.
Warren, Virgil P., Atlanta, Ga. Refrigerator-display-case construction. 1,782,523; Nov. 25.
Washburn Company, The. (See Hobbs, Samuel T., assignor.)
Weaver, Edgar R., Dayton, Ohio. Rudder and brake control. 1,782,524; Nov. 25.
Webber, William. (See Smith, D. W., and Webber.)
Weber Costello Company. (See Johnson, John F., assignor.)
Weidner, John R., assignor to The Nolde and Horst Company, Reading, Pa. Box insert. 1,782,915; Nov. 25.
Weinstein, Alfred, Hamburg, Germany. Animated device. 1,782,555; Nov. 25.
Weisler, August, Perryville, assignor of one-half to F. J. Hagerling, St. Louis, Mo. Wrench. 1,782,752; Nov. 25.
Welsh-Hartman Co. (See Hartman, William O., assignor.)
Wenner-Gren, Axel L., Stockholm, Sweden, assignor to Inventia Patent-Verwertungs-Gesellschaft, Schaffhausen, Switzerland. Vacuum cleaner. 1,782,640; Nov. 25.
Western Electric Company. (See Adams, Arthur H., assignor.)
Western Electric Company. (See Bouvier, George A., assignor.)
Western Electric Company. (See Bouvier, G. A., and Case, assignors.)
Western Electric Company. (See Bowly, H. W., and McWilliams, assignors.)
Western Electric Company. (See Bureau, Arthur A., assignor.)
Western Electric Company. (See Jessup, Richard D., assignor.)
Western Electric Company. (See McGuire, Lee R., assignor.)
Western Electric Company. (See Nielsen, John F., assignor.)
Western Electric Company. (See Oudin, F., and Skinner, assignors.)
Western Electric Company. (See Scrantom, De Hart G., assignors.)
Western Electric Company. (See Short, Samuel F., assignor.)
Westfield River Paper Company. (See Scheele, Edwin H., assignor.)
Westinghouse Air Brake Company, The. (See Down, Sidney G., assignor.)
Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
Westinghouse Air Brake Company, The. (See Hukill, Henry D., assignor.)
Westinghouse Air Brake Company, The. (See McCune, Joseph C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Bouton, Edgar M., assignor.)
Westinghouse Electric & Manufacturing Company. (See High, Jurjen S., assignor.)
Westinghouse Electric and Manufacturing Company. (See Miller, F. H., and Jackson, assignors.)
Wheeler, Grace P., administratrix. (See Wheeler, John H.)
Wheeler, John H., deceased, by G. P. Wheeler, administratrix, Columbus, Ohio. Aero auxiliary cylinder. 1,782,753; Nov. 25.
Wheeler, Leonard H., assignor, by mesne assignments, to Stewart-Warner Corporation, Chicago, Ill. Liquid-handling device. 1,782,702; Nov. 25.
Wheeling Bronze Casting Company. (See Haller, Charles W., assignor.)
White, Alfred H., Ann Arbor, Mich., assignor to The Regents of the University of Michigan. Coke and producing the same. 1,782,556; Nov. 25.

White, George R., Stony Brook, N. Y. Ornithopter. 1,783,029; Nov. 25.
White Motor Company, The. (See Snyder, Frank L., assignor.)
Whittaker, Arthur. (See Hackett, H., and Whittaker.)
Wietzel, Gustav, J. Jannek, Ludwigshafen-on-the-Rhine, and F. Fried, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Elimination of sulphur compounds from gases. 1,782,590; Nov. 25.
Wietzel, Rudolf, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacture of alkyl formates. 1,782,591; Nov. 25.
Wigge, Hans. (See Siebert, William, assignor.)
Wilcox, Charles E., Long Beach, Calif. Elevator. 1,782,754; Nov. 25.
Wilcox, Edgar M. (See Hannauer, G., and Wilcox.)
Wilcox-Rich Corporation. (See Hoern, Joseph H., assignor.)
Wild, Louis. (See Wild, Otto and L.)
Wild, Otto and L., Murl, Switzerland. Machine for flanging plate disks. 1,782,641; Nov. 25.
Wilder, Edward B., St. Louis, Mo. Kite. 1,782,557; Nov. 25.
Wiley, Hugh, Los Altos, Calif. Internal-combustion engine. 1,782,642; Nov. 25.
Wil-Fry Corporation. (See Fry, Walter L., assignor.)
Wilhelm, John H., Rockaway Beach, assignor to Markon Manufacturing Co. Inc., New York, N. Y. Eye set for dolls. 1,728,833; Nov. 25.
Wilks, Charles H., Marche, Ark. Tractor wheel. 1,782,643; Nov. 25.
Williams, David C., Medfield, assignor to H. F. Hurlburt, jr., Wellesley, Mass. Packing for safety-razor blades. 1,782,797; Nov. 25.
Williams, Earl, Los Angeles, Calif. Hand-adapted trombone brace. 1,782,452; Nov. 25.
Williams, John J. (See Gray, D. M., and Williams.)
Williams, Paul F., assignor to G. & W. Electric Specialty Co., Chicago, Ill. System of electrical distribution and control means therefor. 1,782,568; Nov. 25.
Williams, Thomas, Topeka, Kans. Spudding cushion for drilling machinery. 1,783,006; Nov. 25.
Williams, William L. S., assignor to Hawaiian Cane Products, Limited, Hilo, Hawaii. Treating bagasse for the manufacture of wall board and the like. 1,782,755; Nov. 25.
Willys-Overland Company, The. (See Grimm, George E., assignor.)
Wilson, Alexander H., Oak Park, assignor to Thomas Elevator Company, Chicago, Ill. Portable hoisting machine. 1,782,703; Nov. 25.
Wilson, Ben H., assignor to Owens-Illinois Glass Company, Toledo, Ohio. Jug. Des. 82,637; Nov. 25.
Wilson, George F., and H. E. Waner, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Spreader device for opening vulcanizing molds or the like. 1,782,798; Nov. 25.
Window Glass Machine Company. (See Monro, William L., assignor.)
Wing, Luman B., Brooklyn, N. Y. Piano construction. 1,782,453; Nov. 25.
Winterhalter, Martin, Halle-on-the-Saale, Germany, assignor, by mesne assignments, to Mishawaka Rubber & Woolen Manufacturing Company, Mishawaka, Ind. Fastening for fabrics and the like. Re17,881; Nov. 25.
Winthrop Chemical Company. (See Jensch, H., and Eisleb, assignors.)
Wlodarski, Franciszek, Poznan, Poland. Apparatus for rendering displays visible from all sides. 1,782,834; Nov. 25.
Woodcock, Reginald B., and J. Cook, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Skiving machine. 1,782,495; Nov. 25.
Woodcock, Reginald B., and T. A. Kestell, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Sole-rounding machine. 1,782,494; Nov. 25.
Woodrow Washing Machine Company. (See Gibson, George M., assignor.)
Woodruff, Joseph W., Elizabeth, N. J. Oil-measuring apparatus. 1,782,704; Nov. 25.
Woodside, James P., Detroit, Mich. Mouthpiece. 1,782,559; Nov. 25.
Worden, James A., Antigo, Wis. Kiln. 1,783,030; Nov. 25.
Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Pitman. 1,782,863; Nov. 25.
Wright, Frank H. (See Moses, A. J., and Wright.)
Wünsche, Wilhelm, Detroit, Mich. Hobble. 1,782,835; Nov. 25.
Wurzburg, Edwin G. (See Crane, Charles A., assignor.)
Yates & Grant, Inc. (See Forbes, John S., assignor.)
Young, Frank A., and R. H. Boardman, assignors, by mesne assignments, to Connecticut Telephone & Electric Corporation, Meriden, Conn. Electric snap switch. 1,782,836; Nov. 25.
Young, Ralph P. (See Kramer, Henry W., assignor.)
Younger, Dwen R., assignor of one-half to E. L. Younger, Woodland, Calif. Fuel-feeding device. 1,782,592; Nov. 25.
Younger, Earl L. (See Younger, Dwen R., assignor.)
Zarate, Guillermo L., et al. (See Breitling, Adolf, assignor.)
Zehnder, John L. (See Fay, A., and Zehnder.)
Zeidler Concrete Products Machinery Company, The. (See Schultz, Alfred W., assignor.)
Zellinger, John F., assignor to The Barker Manufacturing Company, Inc., David City, Nebr. Cultivator. 1,782,593; Nov. 25.
Zusy, Charles J. (See Ellis, D. S., and Zusy.)

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 25TH DAY OF NOVEMBER, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Accelerating the hardening of hydraulic binding means. W. Kirchner. 1,782,471; Nov. 25.
Acid phosphate plant. I. Hechenbleikner. 1,782,821; Nov. 25.
Acoustic swingings into electric capacity swingings, Transforming of. A. V. Petersen. 1,783,138; Nov. 25.
Advertising or like sign or device. G. Frenkel. 1,782,721; Nov. 25.
Aeroplane. L. L. Johnson. 1,782,965; Nov. 25.
Aeroplane. R. H. O'Massey. 1,782,878; Nov. 25.
Aerovehicle. A. E. James. 1,782,508; Nov. 25.
Air-brake system. C. A. Ives. 1,783,043; Nov. 25.
Air-cooling device. R. H. Hardin. 1,782,612; Nov. 25.
Air gun. E. S. Roe. 1,782,664; Nov. 25.
Air heater, Fireplace. M. S. Quinliven. 1,783,140; Nov. 25.
Airplane control. W. Stelzer. 1,782,750; Nov. 25.
Alcohol-gel, Ethyl. H. Ohle and J. Othmar-Neuscheller. 1,783,133; Nov. 25.
Alcohol, Treating ethyl. C. Haner. 1,783,086; Nov. 25.
Aligning means, Duct-end outlet-. L. A. Sharp. 1,782,548; Nov. 25.
Alkyl formates, Manufacture of. R. Wietzel. 1,782,591; Nov. 25.
Alloy. C. Philippossian. 1,783,139; Nov. 25.
Amino compounds and products produced thereby, Catalytically hydrogenating aromatic. F. Klingemann, W. Lommel, E. Korten, and T. Goost. 1,782,729; Nov. 25.
Anchor. W. Siebert. 1,782,449; Nov. 25.
Animal trap. P. G. Midgett. 1,782,661; Nov. 25.
Animal trap. J. E. Spilman. 1,783,144; Nov. 25.
Animated device. A. Weinstein. 1,782,555; Nov. 25.
Annealing furnace. G. B. Shipley and H. Alinder. 1,782,481; Nov. 25.
Antenna. A. Meissner. 1,783,025; Nov. 25.
Antenna system. H. Chireix. 1,783,072; Nov. 25.
Anthracene, Purifying. C. J. Thatcher. 1,782,488; Nov. 25.
Antifriction roller. F. K. Kilian. 1,782,622; Nov. 25.
Apparatus for cooling fluids. H. F. Merriam. 1,782,435; Nov. 25.
Apparatus for rendering displays visible from all sides. F. Wlodarski. 1,782,834; Nov. 25.
Appliance for invalids. R. A. Austin. 1,782,672; Nov. 25.
Automobile brake. R. J. Gits. 1,782,891; Nov. 25.
Automotive brake. S. G. Down. 1,782,566; Nov. 25.
Bag: *See*—
  Valve bag.
Bag-filling method and apparatus. S. H. Lilly. 1,782,733; Nov. 25.
Bag-turning machine. H. W. Orndoff. 1,782,935; Nov. 25.
Bags, Making paper. T. M. Royal. 1,782,884; Nov. 25.
Bagasse for the manufacture of wall board and the like, Treating. W. L. Williams. 1,782,755; Nov. 25.
Bands about bales or the like, Fastening. C. B. Frost. 1,782,465; Nov. 25.
Bar: *See*—
  Skelp bar. Wrecker bar.
Bar for curtains, Bottom. J. L. Mohun and H. Piesch. 1,782,905; Nov. 25.
Bar for doors, Push. E. L. Teich. Des. 82,633; Nov. 25.
Barbecuing machine. C. Van Allen. 1,782,639; Nov. 25.
Base for a laundry appliance. J. G. Fehn. Des. 82,638; Nov. 25.
Basin and heat reclaimer, Soil-water Catch. F. S. Boltz. 1,783,033; Nov. 25.
Bearing. C. J. Klein. 1,782,969; Nov. 25.
Bearing construction. P. C. Bruckmann. 1,782,710; Nov. 25.
Bed frame. B. M. Frank. 1,782,988; Nov. 25.
Bedstead end frame or analogous article. J. McKay. Des. 82,617–20; Nov. 25.
Bell ringer, Locomotive. D. S. Ellis and C. J. Zusy. 1,782,844; Nov. 25.
Bin: *See*—
  Storage bin.
Bin for kitchen cabinets, Flour. O. N. McCormick. 1,783,127; Nov. 25.
Binder hitch. D. W. Smith and W. Webber. 1,782,586; Nov. 25.
Binder, Loose-leaf. J. C. Dawson. 1,782,647; Nov. 25.
Blind, Venetian. C. Bauer. 1,782,954; Nov. 25.
Blotter, Rotary. C. H. Pajeau. 1,782,792; Nov. 25.
Board: *See*—
  Floor board. Ironing board.
Boat-hull construction. H. B. Greening. 1,782,893; Nov. 25.
Boiler and furnace. C. W. Stancliffe. 1,782,635; Nov. 25.
Bolt lock, Rotary. F. J. Dowling. 1,782,776; Nov. 25.
Bottle cap, Milk-. V. J. Laramie. 1,782,731; Nov. 25.
Bottle closure. C. Savino. 1,783,027; Nov. 25.
Bottle-crowning machine. V. J. Mohler. 1,782,904; Nov. 25.
Bowl or similar article, Sugar. H. Ufford. Des. 82,634; Nov. 25.
Bowling alley. W. S. Hartman. 1,782,849; Nov. 25.
Box: *See*—
  Stuffing box. Switch box.
Box insert. J. R. Weidner. 1,782,915; Nov. 25.
Box-supporting ear. C. Newman and E. G. Appleton. 1,782,546; Nov. 25.
Boxes, Manufacture of cardboard. H. Hackett and A. Whittaker. 1,782,611; Nov. 25.
Brace: *See*—
  Trombone brace.
Brake: *See*—
  Automobile brake. Automotive brake.
Brake device. H. D. Hukill. 1,782,571; Nov. 25.
Brake mechanism. W. C. Barker. 1,783,104; Nov. 25.
Brake mechanism, Track. G. Hannauer and E. M. Wilcox. 1,782,874; Nov. 25.
Braking apparatus, Hydraulic. W. G. Price. 1,782,663; Nov. 25.
Bridge for stringed musical instruments. F. Gosparlin. 1,783,117; Nov. 25.
Bronzing machines, Attachment for. E. E. Radloff and A. W. Janke. 1,782,881; Nov. 25.
Building. E. P. Muntz. 1,782,997; Nov. 25.
Bumper, Automobile trap. J. Amler. 1,783,066; Nov. 25.
Burner: *See*—
  Gas burner. Oil burner.
Burner. G. T. Brado. 1,782,600; Nov. 25.
Burners, Controlling mechanism for oil. S. Perry. 1,782,937; Nov. 25.
Burnishing machine. L. J. Bazzoni. 1,782,802; Nov. 25.
Butter-cutting machine. W. J. Pearce. 1,783,096; Nov. 25.
Button. C. M. Bondy. Re17,877; Nov. 25.
Button, Collar. G. Krasney. 1,782,509; Nov. 25.
Cabinet, Dispensing. H. L. Blackman. 1,782,597; Nov. 25.
Cabinet for the storage of gramaphone disk records and the like. V. Fraschetti. 1,782,606; Nov. 25.
Cabinet, Massaging-machine. F. W. Knott. 1,783,170; Nov. 25.
Cabinet, Radio and television. J. Phillips. Des. 82,624; Nov. 25.
Cabinet, Towel. F. Jantzen. 1,783,149; Nov. 25.
Cable and connecter therefor. I. T. Hook. 1,783,016; Nov. 25.
Cage for ball bearings. C. L. Russell. 1,783,141; Nov. 25.
Calculating machines, Attachment for. F. M. Smith. 1,783,172; Nov. 25.
Calendar, Desk. K. Clark. 1,782,985; Nov. 25.
Camera, Aerial. A. Briechle. 1,782,864; Nov. 25.
Canning pineapple and product thereof. J. T. McCrosson. 1,782,761; Nov. 25.
Cans, Attachment for oil. E. H. Morrow. 1,782,579; Nov. 25.
Car body, Transformable motor. F. López-Osorio. 1,782,998; Nov. 25.
Cars, Apparatus for tipping and discharging railway. B. E. Ellison. 1,782,503; Nov. 25.
Carbon and making the same, Active. J. van Loon. 1,782,493; Nov. 25.
Carbon for electrotechnical uses and manufacture thereof. M. Oswald. 1,783,135; Nov. 25.
Carbon, Manufacture of activated. R. Defris and R. Wälder. 1,783,110; Nov. 25.
Carbonating machine. F. Neuschafer and H. Botwin. 1,782,511; Nov. 25.
Carburetor. B. F. Gravely. 1,782,848; Nov. 25.
Card-saving motion. G. Liebender. 1,783,125; Nov. 25.
Carriages, Body suspension for baby. H. Perlmutter. 1,782,742; Nov. 25.
Carton. M. Lippmann. Des. 82,614; Nov. 25.
Case: *See*—
  Vanity case.
Casing for a telephone substation set. J. M. Lebaugh. Des. 82,612–13; Nov. 25.
Casing or similar container. A. J. Jones. Des. 82,609; Nov. 25.
Casing suspension head. L. H. Mahon. 1,782,737; Nov. 25.
Casing, Toasting-machine. L. E. Padelford. Des. 82,621; Nov. 25.
Casting machine. C. E. Hunter and De L. Lutz. 1,782,898; Nov. 25.
Casting machine, Centrifugal. W. D. Moore and W. Morgan. 1,783,094; Nov. 25.

Casting machines, Ladle-tipping device for. W. Morgan. 1,783,128; Nov. 25.
Catalytic apparatus. I. Hechenbleikner. 1,782,824; Nov. 25.
Catalytic gel, Obtaining a. E. B. Miller and G. C. Connolly. 1,782,857; Nov. 25.
Cellulose acetate, Production of partially-hydrolyzed. S. I. Vles. 1,782,796; Nov. 25.
Cellulosic product. E. A. Vazquez. 1,782,751; Nov. 25.
Cement spreader. R. M. Hardgrove. 1,782,820; Nov. 25.
Chain, Mining-machine cutter. F. Cartlidge. 1,782,408; Nov. 25.
Chair. A. B. Goodman. Des. 82,605; Nov. 25.
Chair. F. M. Overbey. 1,782,763; Nov. 25.
Chair or similar article. W. S. Ferris. Des. 82,604; Nov. 25.
Chairs, Back-rest arrangement for. T. H. Alfreds. 1,782,398; Nov. 25.
Chase for checks and the like, Printer's. E. H. Stadler and G. E. Dillingham. 1,782,587; Nov. 25.
Chest of drawers or the like. E. J. Paull. Des. 82,623; Nov. 25.
Chopper: *See*—
Stalk chopper.
Chuck, Feed. F. E. Green. 1,783,039; Nov. 25.
Chute for automobile trucks, Animal. H. W. Tool. 1,782,554; Nov. 25.
Cigar-making machine. R. C. J. A. Ohmsen. 1,782,627; Nov. 25.
Cigarette-making machine. W. E. Molins. 1,783,093; Nov. 25.
Circuit-control system, Electric-power. F. M. Anderson. 1,783,067; Nov. 25.
Circuit, Detector-tube. R. L. Chiles. 1,782,500; Nov. 25.
Circuit protection. J. Biermanns. 1,783,105; Nov. 25.
Circulation regulator for heating systems. E. M. Gurney. 1,782,873; Nov. 25.
Clam-catching implement. H. O. Anderson. 1,782,497; Nov. 25.
Clamp: *See*—
Form clamp.
Hose clamp.
Hose or pipe clamp.
Clamp machine. S. J. Gardner. 1,782,846; Nov. 25.
Clamping device. H. W. Bowly and W. W. McWilliams. 1,782,404; Nov. 25.
Clamping device. F. Oudin and B. H. Skinner. 1,782,438-40; Nov. 25.
Clamping means. E. E. von Tell. 1,782,979; Nov. 25.
Clasp for pocketbooks and the like. A. Rosenband. 1,782,665; Nov. 25.
Clays, Recovering waste. W. D. Rial and W. R. Barratt. 1,782,744; Nov. 25.
Cleaner: *See*—
Vacuum cleaner.
Wheel-lug cleaner.
Clip: *See*—
Necktie clip.
Paper clip.
Closure operating and locking mechanism. F. K. Fildes. 1,782,845; Nov. 25.
Closure operator. J. D. Swarner. 1,782,978; Nov. 25.
Clutch. R. W. Janda. 1,782,572; Nov. 25.
Clutch, Friction. W. J. Pearmain. 1,782,880; Nov. 25.
Cobalt and iron from solutions rich in iron as obtained by lixiviating roasted pyrites, Separation of. N. E. Lenander. 1,783,046; Nov. 25.
Coke and producing the same. A. H. White. 1,782,556; Nov. 25.
Collapsible tube. F. J. Lynch. Des. 82,640; Nov. 25.
Collapsible tube. W. C. Ude. 1,782,980; Nov. 25.
Collar, Fold. R. J. Thompson. 1,782,913; Nov. 25.
Collar stiffener, Shirt-. J. H. Janowitch. Re17,885; Nov. 25.
Coloring material for oleomargarine, butter, and the like. J. Schaub. 1,783,154; Nov. 25.
Compass indicator, Time-controlled. W. I. McLaughlin. 1,782,474; Nov. 25.
Compositions containing compounds of alginic acid and product thereof, Producing. L. L. Burgess. 1,782,887; Nov. 25.
Compressor, High-pressure reciprocating. C. Schaer. 1,782,975; Nov. 25.
Compressor, Lubricant. E. Piquerez. 1,782,441; Nov. 25.
Compressors and operating the same, Control mechanism for centrifugal. H. V. Crawford. 1,783,036; Nov. 25.
Computing machine. H. A. Foothorap. 1,782,757; Nov. 25.
Concrete-brick manufacture. C. Dietrichs. 1,782,413; Nov. 25.
Concrete-distributing apparatus. A. MacDougald. 1,782,734; Nov. 25.
Condensation product and preparing same. H. A. Bruson. 1,783,168; Nov. 25.
Conductor, Armored. J. E. McAuliffe. 1,782,787; Nov. 25.
Conduit base and trim. C. L. Harper. 1,783,120; Nov. 25.
Connection for tool holders, Flexible driving. B. P. Schiltz. 1,782,633; Nov. 25.
Connector. C. L. Stoeltzlen. Re17,880; Nov. 25.
Construction of operating crankless internal-combustion and explosion engines. A. G. M. Michell. Re17,879; Nov. 25.
Container, Disinfecting. A. L. Feldman. 1,782,919; Nov. 25.
Container, Folding. I. Appelbaum. 1,783,068; Nov. 25.
Container, Jewelry. J. M. Shields. Des. 82,646; Nov. 25.
Container, Loose-powder. W. T. Parkin. 1,783,160; Nov. 25.
Container, Paper. G. H. Gardner. 1,782,961; Nov. 25.
Container, Tubular. A. L. Beardsley. 1,782,526; Nov. 25.
Containers, Attachment for. F. H. Axell. 1,782,886; Nov. 25.
Control device for heating systems. G. C. Hunt. 1,782,653; Nov. 25.
Control for electric advertising signs. E. M. Rosenfield. 1,782,883; Nov. 25.
Control for heating plants, Automatic. L. G. L. Thomas. 1,782,489; Nov. 25.
Control switch, Combination. C. P. Dougherty. 1,782,530; Nov. 25.
Control system. R. Y. McCullough. 1,783,048; Nov. 25.
Control system, Remote. J. F. Nielsen. 1,782,907; Nov. 25.
Conveyer. J. W. Hornsey. 1,782,423; Nov. 25.
Cooler: *See*—
Milk cooler.
Copper ores preparatory to leaching, Treating. C. E. Carstens. 1,782,841; Nov. 25.
Corsetiere's fitting apparatus. E. Gray. 1,782,892; Nov. 25.
Coupling: *See*—
Flexible coupling.
Coupling for engine cylinders, Air-compressing. J. Edgren. 1,782,718; Nov. 25.
Coupling head, Grease-gun. S. J. Krannak. 1,782,691; Nov. 25.
Cover, Auxiliary soap-cake. J. A. Perego. 1,782,859; Nov. 25.
Cover, Battery. F. S. Carlile. 1,782,984; Nov. 25.
Cover, Container. W. F. Hill. 1,782,532; Nov. 25.
Cover, Extractor. J. P. Lynch. 1,782,575; Nov. 25.
Cover glass. S. L. Lebby. 1,782,732; Nov. 25.
Cover, Seat. W. L. Fry. 1,782,815; Nov. 25.
Crane. L. Pierce. Re17,886; Nov. 25.
Crane, Hoe-type shovel. L. A. Russell. 1,783,055; Nov. 25.
Crane, Instroke shovel. L. A. Russell. 1,783,056; Nov. 25.
Crane, Loading. W. W. Leach. 1,783,021; Nov. 25.
Crane, Order. B. M. Perkins. 1,782,936; Nov. 25.
Crane, Portable. A. A. Bureau. 1,782,406; Nov. 25.
Crank shafts, Balancing of. C. Clench. 1,783,073; Nov. 25.
Crate, Pickling. C. W. Haller. Re17,882; Nov. 25.
Creping process. W. W. Rowe. 1,782,767; Nov. 25.
Crystal mounting, Semirigid. C. W. Hansell. 1,783,014; Nov. 25.
Cultivator. J. F. Zellinger. 1,782,593; Nov. 25.
Cultivator harrow, Combined. A. Olsson. 1,782,934; Nov. 25.
Cultivators, Dragbar for. J. Goddard and R. A. Calvert. 1,783,081; Nov. 25.
Cultivators, Seed-replanting attachment for. E. Ayers. 1,783,032; Nov. 25.
Cup: *See*—
Shaving cup.
Cup for sponge moisteners. C. C. Harris. 1,782,505; Nov. 25.
Cup or similar article. H. Ufford. Des. 82,635; Nov. 25.
Current, Rectifying alternating. E. E. Spitzer. 1,783,059; Nov. 25.
Curtain roller. E. G. Simpson. 1,783,002; Nov. 25.
Cutter. S. G. Martin. 1,783,023; Nov. 25.
Cutting device. M. B. Kassel. 1,782,901; Nov. 25.
Cutting machine. C. B. Gray. 1,782,420; Nov. 25.
Cutting machine. J. F. Lawson. 1,782,692; Nov. 25.
Cylinder, Aero auxiliary. J. H. Wheeler. 1,782,753; Nov. 25.
Cylinder, Brake. H. A. Wahlert. 1,782,589; Nov. 25.
Deck, Floating. A. M. Griffin. 1,783,118; Nov. 25.
Decorticating and depulping machine. K. Erb. 1,782,918; Nov. 25.
Derrick safety appliance. R. F. Tuck. 1,782,701; Nov. 25.
Device for preventing boiling over of milk. E. Fried. 1,782,417; Nov. 25.
Device for shunting vehicles off a main line of track. A. Scheuchzer. 1,782,941; Nov. 25.
Device for treating the stomach with ultra-violet rays. M. S. Newman. 1,782,906; Nov. 25.
Diacetyl-3, 3'-diamino-4, 4'-dihydroxy-5,5'-diiodoarsenobenzene, Synthesis of. A. D. Macallum. 1,782,482; Nov. 25.
Diagnostic instrument. C. E. H. Armbruster. 1,782,705; Nov. 25.
Die. J. A. Parker. 1,782,999; Nov. 25.
Die head. V. R. Koontz. 1,782,472; Nov. 25.
Diffusion plant. C. Camuset. 1,782,603; Nov. 25.
Direction indicator, Vehicle. A. Chislock. 1,782,773; Nov. 25.
Disconnecter arrangement, Conductor. J. Rah. 1,782,547; Nov. 25.
Dishwasher, Mechanical. F. A. Walker. 1,782,950; Nov. 25.
Disk, Crank. L. Robertson. 1,782,746; Nov. 25.
Disks to a closing mold, Method and apparatus for feeding. L. T. Frederick. 1,782,989; Nov. 25.
Dispensing and cutting device, Twine. J. E. Kroemer. 1,782,971; Nov. 25.

Dispensing device, Oil-. H. G. Davis. 1,782,715; Nov. 25.
Display apparatus, Liquid-. F. G. Stanford and G. Baker. 1,782,943; Nov. 25.
Display cases, Construction for. H. Hansen. 1,782,819; Nov. 25.
Display fountain, Beverage-. H. L. Glaze and F. G. Stanford. 1,782,685; Nov. 25.
Display fountain, Liquid-. F. G. Stanford and G. Baker. 1,782,944; Nov. 25.
Distilling apparatus. W. S. Elliott. 1,782,959; Nov. 25.
Ditch-digging machine. C. H. Ruth. 1,782,478; Nov. 25.
Dolls and the like, Tongue and teeth set for. S. Marcus. 1,782,433; Nov. 25.
Door handle. J. L. Brownell. Des. 82,598; Nov. 25.
Door-holding device. J. P. Grimley. 1,782,816; Nov. 25.
Doorknob, Sanitary. B. Polcari. 1,783,097; Nov. 25.
Door-operating mechanism. H. T. Black. 1,782,982; Nov. 25.
Door, Oven. W. Moll. 1,782,739; Nov. 25.
Draft arm for a soda fountain. D. C. Seitz. Des. 82,630; Nov. 25.
Drain protector. G. B. Grosjean. 1,783,082; Nov. 25.
Drawing frame. E. Stansfield and E. Brunner. 1,782,549; Nov. 25.
Drill: *See*—
Grain drill.
Drilling machine, Rotary well-. J. D. Spalding. 1,782,769; Nov. 25.
Drilling machinery, Spudding cushion for. T. Williams. 1,783,006; Nov. 25.
Driving mechanism, Intermittent. H. M. Swindler. 1,782,520; Nov. 25.
Drums, Making. W. A. Jones. 1,782,899; Nov. 25.
Dye containing a diphenylurea nucleus, Disazo. L. W. Geller. 1,782,682; Nov. 25.
Dyestuff from 1.12 perylene quinone, Manufacturing a green vat. W. Penecke. 1,783,137; Nov. 25.
Dyestuffs containing metals and making same. H. B. Gubler. 1,783,084; Nov. 25.
Dyestuffs containing metals and making same. H. Gubler, G. De Montmollin, and J. Spieler. 1,783,083; Nov. 25.
Dyestuffs, New indigoid. W. Bauer, W. Neelmeier, and T. Nocken. 1,782,706; Nov. 25.
Dyestuffs, Trimethylthionaphthene vat. E. Hoffa and H. Heyna. 1,782,724; Nov. 25.
Electric discharge device. F. W. Peek, jr. 1,783,052; Nov. 25.
Electric-fixture device. L. Kozlowski. 1,783,020; Nov. 25.
Electric heater. E. F. Holinger. 1,782,825; Nov. 25.
Electric lock. W. C. McWhirter. 1,782,788; Nov. 25.
Electric machine, Dynamo-. P. Wachsmann. 1,783,064; Nov. 25.
Electric meter. C. D. Sutton. 1,782,519; Nov. 25.
Electric snap switch. F. A. Young and R. H. Boardman. 1,782,836; Nov. 25.
Electric switch. H. E. Campbell and E. F. Mekelburg. 1,782,916; Nov. 25.
Electric switch. S. L. Snelerson and J. L. Hildebrand. 1,782,516; Nov. 25.
Electric switch. H. Trencham. 1,783,062; Nov. 25.
Electric wiring device and accessory. I. A. Bennett. 1,782,527; Nov. 25.
Electrical conductor. A. B. Dibner. 1,782,812; Nov. 25.
Electrical conductors, Apparatus for testing. A. H. Adams. 1,782,397; Nov. 25.
Electrical conductors, Apparatus for testing. G. A. Bouvier and H. L. Case. 1,782,402; Nov. 25.
Electrical conductors, Method of and apparatus for testing. G. A. Bouvier. 1,782,403; Nov. 25.
Electrical distribution and control means therefor, System of. P. F. Williams. 1,782,558; Nov. 25.
Electrical instrument. A. J. Allen. 1,782,525; Nov. 25.
Electrical meter switch. W. T. Arnold. 1,782,454; Nov. 25.
Electrical terminal members, Forming. De H. G. Scrantom. 1,782,447; Nov. 25.
Electrode, Earth. S. W. Borden. 1,783,035; Nov. 25.
Electrolytic apparatus for refining aluminum and for like processes. P. L. Hulin. 1,782,616; Nov. 25.
Electrostatic charges on moving surfaces, Controlling. W. H. Chapman. 1,782,712; Nov. 25.
Elevator. F. Monroe. 1,782,933; Nov. 25.
Elevator. C. E. Wilcox. 1,782,754; Nov. 25.
Elevator-control system. E. M. Bouton. 1,782,708; Nov. 25.
Eliminator, "Jerked-in" filling. R. B. Stancill. 1,782,749; Nov. 25.
Engine: *See*—
Combustion-chamber engine.
Gas-generating combustion engine.
Internal-combustion engine.
Rotary engine.
Engine combustion chamber. F. A. Bullington. 1,782,395; Nov. 25.
Engines, Apparatus for igniting internal-combustion. L. Saives. 1,782,940; Nov. 25.
Engines, Charge-treating device for internal-combustion. A. Breitling. 1,782,709; Nov. 25.
Esters of colophony and related substances, Mixed. H. A. Bruson. 1,783,165; Nov. 25.
Exercising and massaging machine. W. C. Carr. 1,782,866; Nov. 25.
Exercising apparatus. K. Kiefer. 1,782,728; Nov. 25.
Exposures of the path or route of flying machines or the like, Apparatus for making. E. Relpert. 1,782,860; Nov. 25.
Extractor: *See*—
Obstetrical extractor.
Eye, and applying eyelashes thereto, Artificial. L. J. Grubman. 1,782,818; Nov. 25.
Eye set for dolls. J. H. Wilhelm. 1,782,833; Nov. 25.
Fastener, Clothesline. F. H. Neuberger. 1,782,625; Nov. 25.
Fastener for door panels. R. G. Jeffery. 1,783,150; Nov. 25.
Fastener for trimming material. R. M. Prez. 1,782,695; Nov. 25.
Fastener, Window. A. Hoffman. 1,782,896; Nov. 25.
Fastening for fabrics and the like. M. Winterhalter. Re17,881; Nov. 25.
Fastening for leggings and boots. F. Erhardt. 1,782,504; Nov. 25.
Fats from emulsions containing solid particles, Apparatus for recovering. J. A. L. Roziéres. 1,782,974; Nov. 25.
Faucet screen. J. H. Gavin. 1,782,758; Nov. 25.
Feed gun. L. R. and R. Foss. 1,782,681; Nov. 25.
Felted fibrous products and method of manufacture. H. L. Levin. 1,782,855; Nov. 25.
Felting. C. D. Parks. 1,782,764-5; Nov. 25.
Figures or dolls, Construction of small ornamental. C. Macgregor. 1,782,576; Nov. 25.
Film-magazine-locking device. C. De Vinna. 1,782,529; Nov. 25.
Film printer, Contact. E. W. Kellogg. 1,783,045; Nov. 25.
Films and the like, Winding endless cinematograph. M. Harper. 1,783,169; Nov. 25.
Filter device. A. Schrempp. 1,783,143; Nov. 25.
Filtering and dust-collecting apparatus. I. Hechenbleikner. 1,782,823; Nov. 25.
Fire escape. C. C. Abbott and W. E., B. L., and I. L. Bassett. 1,782,951; Nov. 25.
Fire extinguisher. P. G. MacGregor. 1,782,539; Nov. 25.
Fitting for electrical conduit systems. J. M. G. Fullman. 1,782,779; Nov. 25.
Fixture strap, Adjustable. K. K. Nielsen. 1,782,791; Nov. 25.
Flexible coupling. G. F. Eckart. 1,783,158; Nov. 25.
Floor board, Combination. G. E. Grimm. 1,782,817; Nov. 25.
Fluid in conduits, Apparatus for, signaling condition of. E. Brillié. 1,782,838; Nov. 25.
Fluid-treating apparatus. J. A. MacKenzie. 1,782,735; Nov. 25.
Fluids, Device for pumping. J. R. Muirhead and J. W. Mills. 1,783,095; Nov. 25.
Fluids, Filtering. A. H. G. Fokker. 1,782,531; Nov. 25.
Flying machine. D. P. McLaughlin. 1,783,024; Nov. 25.
Folding table. C. H. McCaslin. 1,782,623; Nov. 25.
Food products, Making. H. A. Erysin and K. B. Chickering. 1,782,960; Nov. 25.
Food-unit-filling machine, Automatic. H. A. Beilgard. 1,782,596; Nov. 25.
Footwear. W. J. Jones. 1,782,620; Nov. 25.
Form clamp. C. E. Hudgin. 1,782,897; Nov. 25.
Form-rolling machine. F. L. Snyder. 1,782,483; Nov. 25.
Fountain: *See*—
Display fountain.
Fountain for poultry or small animals, Drinking. S. Bartholomew. 1,782,673; Nov. 25.
Frame: *See*—
Bed frame.
Drawing frame.
Type-page frame.
Frame for windows or the like. H. C. Reuter. Des. 82,626; Nov. 25.
Fruit distributor. D. E. Keech. 1,782,826; Nov. 25.
Fuel-feeding device. D. R. Younger. 1,782,592; Nov. 25.
Fuels, Method of and apparatus for vaporizing liquid. F. F. Brush. 1,782,602; Nov. 25.
Furnace: *See*—
Annealing furnace.
Hearth furnace.
Heat-treating furnace.
Heating furnace.
Tube still furnace.
Furnace top. H. A. Acer. 1,783,065; Nov. 25.
Furnaces and the like, Apparatus for charging. F. C. Biggert, jr. 1,782,955; Nov. 25.
Furniture stand. S. Matosian. Des. 82,643; Nov. 25.
Fuse plug. E. B. Ekstrand. 1,782,719; Nov. 25.
Gang edger. W. B. Grueter. 1,782,894; Nov. 25.
Garage, Storage. L. D. Cook. 1,782,410; Nov. 25.
Garage, Storage and parking. W. P. Allred, jr. 1,782,671; Nov. 25.
Gas burner. J. L. Giacomino. 1,782,683; Nov. 25.
Gas-generating combustion engine. J. E. Johansson. 1,783,018; Nov. 25.
Gas producer. A. K. Bradley. 1,782,677; Nov. 25.
Gasket. J. G. Dickson. 1,782,870; Nov. 25.
Gasket. C. C. Farmer. 1,782,567; Nov. 25.
Gauge: *See*—
Tire gauge.
Gauge for corn planters, Check-wire. E. A. Vernia. 1,782,948; Nov. 25.
Gear, Change-speed. H. M. Edmunds and E. H. Waring. 1,782,756; Nov. 25.
Gear, Electric-switch. A. Allan. 1,782,594; Nov. 25.

Gears, Truing. A. W. Copland and M. I. Mathewson. Re17,884; Nov. 25.
Generator: *See*—
Power generator.
Geophysical exploration, System and method for. F. Rieber. 1,782,445; Nov. 25.
Glass: *See*—
Cover glass.
Glass-handling mechanism, Sheet-. V. M. Dorsey. 1,782,716; Nov. 25.
Glass, Manufacture of splinterless. J. Jeffray. 1,782,852; Nov. 25.
Glass, Method and apparatus for making sheet. W. L. Monro. 1,782,972; Nov. 25.
Glass-polishing apparatus, Plate-. F. Merian and J. W. Cruikshank. 1,782,475; Nov. 25.
Golf club. D. G. Lilley. 1,782,931; Nov. 25.
Golf game, Home. B. E. Hokin. 1,783,089; Nov. 25.
Grain drill. C. W. Robinson. 1,782,583; Nov. 25.
Grating. N. Michelman. 1,782,799; Nov. 25.
Grinding machine, Centerless. E. R. Seward. 1,782,480; Nov. 25.
Grinding machinery. A. Turner. 1,782,669; Nov. 25.
Guard for openings, Adjustable. J. F. Farmer. 1,782,415; Nov. 25.
Gun carriage. S. G. Green. 1,782,610; Nov. 25.
Gun, centrifugal. B. F. S. Baden-Powell. 1,783,053; Nov. 25.
Haircloth. P. Junas, jr. 1,782,925; Nov. 25.
Hair-drying apparatus. V. N. Nicosia. 1,782,626; Nov. 25.
Hair waver. H. H. Cady. 1,783,108; Nov. 25.
Hair waver, Double. A. and J. Goodman. 1,782,650; Nov. 25.
Handhole plate. A. J. Moses and F. H. Wright. 1,783,129; Nov. 25.
Handrail and support therefor, Flexible. W. O. Hartman. 1,782,895; Nov. 25.
Handle. F. Brandon. 1,783,107; Nov. 25.
Handle. J. L. Brownell. Des. 82,600; Nov. 25.
Handle for pipe cleaners. C. Fischer. 1,782,871; Nov. 25.
Handle for wooden baskets. H. W. Kramer. 1,782,431; Nov. 25.
Hat-making machine. I. A. Eichenbaum. 1,783,112; Nov. 25.
Hearth furnace, Rotary-. A. D. Dauch. 1,782,956; Nov. 25.
Heat distributor or plate. S. Sauvage. 1,782,699; Nov. 25.
Heat exchanger. S. J. Chute. 1,782,409; Nov. 25.
Heat-transfer device. E. W. Jones. 1,782,574; Nov. 25.
Heat-transfer system. A. E. Nash and J. S. Alcorn. 1,782,829; Nov. 25.
Heat-treating apparatus. R. E. Talley. 1,783,156; Nov. 25.
Heat-treating furnace. H. L. Waisner. 1,782,451; Nov. 25.
Heater: *See*—
Air heater. Machine heater.
Electric heater.
Heater. G. F. Vasey. 1,782,947; Nov. 25.
Heater for vehicles. F. C. Howard. 1,782,652; Nov. 25.
Heating and ventilating, Concealed unit for. M. J. Callahan. 1,782,711; Nov. 25.
Heating and welding machines, Three-phase one-phase converter, especially for electric resistance. E. Schröder. 1,782,634; Nov. 25.
Heating device for railroad switches. H. Miller and B. B. Betts. 1,783,164; Nov. 25.
Heating furnace, Electric. R. E. Talley. 1,783,155; Nov. 25.
Heel-attaching means. C. Miller and M. Feinstein. 1,782,436; Nov. 25.
Helicopter. N. Florine. 1,783,011; Nov. 25.
Hinge. W. L. Evans. 1,783,076; Nov. 25.
Hinge. H. H. Raymond. 1,782,582; Nov. 25.
Hinge, Adjustable door. T. L. Torgerson. 1,782,490; Nov. 25.
Hinge leaf. H. H. Raymond. Des. 82,625; Nov. 25.
Hobble. W. Wunsche. 1,782,835; Nov. 25.
Hoist. A. H. Chappelka. 1,782,679; Nov. 25.
Hoisting and hauling carriage for use on elevated trackways. K. Berger. 1,782,528; Nov. 25.
Hoisting machine, Portable. A. H. Wilson. 1,782,703; Nov. 25.
Holder, Bag. D. W. Mahaffey. 1,782,736; Nov. 25.
Holder, Bottle. S. T. Hobb. 1,782,962; Nov. 25.
Holder, Broom. W. F. Hacking. 1,783,119; Nov. 25.
Holder for reknitting fabrics. A. C. Parlini. 1,782,879; Nov. 25.
Holder, Gas. F. H. Wagner. 1,782,861; Nov. 25.
Holder, Gas. F. H. Wagner. 1,782,949; Nov. 25.
Holder, Hand sandpaper. R. W. Maris. 1,782,577; Nov. 25.
Holder, Picture or card. J. L. Brownell. Des. 82,601; Nov. 25.
Holder, Screw. F. Dohnal. 1,782,565; Nov. 25.
Holder, Wall pot. I. G. Scott and M. C. Fox. Des. 82,629; Nov. 25.
Honing machine. A. M. Johnson. 1,783,019; Nov. 25.
Hoppers, Agitator for coal. B. C. Lewis. 1,783,092; Nov. 25.
Hose clamp. C. A. Parker. 1,782,476; Nov. 25.
Hose or pipe clamp. A. Fay and J. L. Zehnder. 1,782,680; Nov. 25.
Humidifier. J. S. Knowlson. 1,782,928; Nov. 25.
Hydrocarbons such as acetylene or the like, Process of and system for splitting. J. Machtolf. 1,782,540; Nov. 25.
Hydrocarbons, Treating. R. Cross. 1,782,808; Nov. 25.
Hydrocarbons, Treating. J. Delattre-Seguy. 1,782,811; Nov. 25.
Ice machines, Compressor construction for. R. M. Hvid. 1,783,017; Nov. 25.
Incubator. W. R. Gaskill. 1,782,609; Nov. 25.
Indicator: *See*—
Compass indicator. Pressure indicator.
Direction indicator.
Inductance. R. Ramsdell. 1,782,444; Nov. 25.
Insole. H. B. Gorman. 1,782,466; Nov. 25.
Insulator. F. H. Miller and R. P. Jackson. 1,782,790; Nov. 25.
Internal-combustion engine. K. Eisenburger. 1,783,075; Nov. 25.
Internal-combustion engine. F. B. Halford. 1,783,085; Nov. 25.
Internal-combustion engine. J. A. Mould. 1,782,740; Nov. 25.
Internal-combustion engine. D. G. Roos. 1,782,513; Nov. 25.
Internal-combustion engine. H. Wiley. 1,782,642; Nov. 25.
Iron, Apparatus for the electrodeposition of. R. D. Pike. 1,782,909; Nov. 25.
Iron, Purifying pig. K. Hofmann. 1,782,923; Nov. 25.
Ironing board. A. M. Harvey. 1,782,421; Nov. 25.
Ironing board and table, Combined. W. Palmer. 1,783,051; Nov. 25.
Jack: *See*—
Power-saving jack.
Joint: *See*—
Oscillating joint. Universal joint.
Pipe joint.
Jug. B. H. Wilson. Des. 82,637; Nov. 25.
Keyboard cam roll. A. H. Narrow. 1,782,694; Nov. 25.
Key for cylinder locks, Master. M. Falk. 1,782,464; Nov. 25.
Kiln. J. A. Worden. 1,783,030; Nov. 25.
Kite. C. Nagy. 1,782,858; Nov. 25.
Kite. E. B. Wilder. 1,782,557; Nov. 25.
Knitting machines, Stop motion for. D. F. Sullivan. 1,782,550; Nov. 25.
Knots, Apparatus for making weaving. G. Raetz. 1,783,001; Nov. 25.
Lamp. H. Carlson. 1,782,917; Nov. 25.
Lamp. F. Gritt. Des. 82,606; Nov. 25.
Lamp, Automobile. J. A. Sullivan. 1,782,551; Nov. 25.
Lamp, Electric-arc. W. C. Spieth. 1,782,485; Nov. 25.
Lamp housing. J. L. Brownell. Des. 82,602; Nov. 25.
Lamp, Mining. J. A. Paisley. 1,783,136; Nov. 25.
Lamp, Street. W. Underwood. Des. 82,636; Nov. 25.
Lamp, Table. M. Kornblum. Des. 82,611; Nov. 25.
Latex, Preservation of. D. Schuster and H. Hopff. 1,783,057; Nov. 25.
Lath. W. D. Hicks. 1,782,568; Nov. 25.
Laundry apparatus. N. G. Barnard. 1,783,147; Nov. 25.
Laundry machines, Positioning device for. P. C. Bruckmann. 1,782,983; Nov. 25.
Lens, Ophthalmic. E. D. Tillyer. Re17,887; Nov. 25.
Letter and envelope stuffer, Combined. J. O. Little. 1,783,022; Nov. 25.
Lids for cigar boxes, Forming. A. A. Adamson. 1,782,799; Nov. 25.
Lifting mechanism. J. Dolan. 1,782,889; Nov. 25.
Light or the like for an automotive vehicle, Dome. W. Schnell. Des. 82,628; Nov. 25.
Lighter. J. W. Jennings. Des. 82,608; Nov. 25.
Lighter. H. A. Myers. 1,782,544; Nov. 25.
Lighter, Cigarette. I. Florman. Des. 82,647; Nov. 25.
Link for hydraulic turbines. G. A. Biggs. 1,782,498; Nov. 25.
Lip-stick device. J. Scrimgeour. 1,782,911; Nov. 25.
Liquid and gas contact apparatus. F. H. Wagner. 1,782,862; Nov. 25.
Liquid handling device. L. H. Wheeler. 1,782,702; Nov. 25.
Liquids, Method and apparatus for dispensing. E. G. Bronson and J. W. Russell. 1,782,678; Nov. 25.
Liquids, Process and apparatus for distilling. J. Delattre-Seguy. 1,782,810; Nov. 25.
Load-regulating means. C. Sayres and D. C. Peabody. 1,783,142; Nov. 25.
Loading automobiles and other vehicles, Reenforced hold down for. M. D. Tucker and C. L. Snyder. 1,783,102; Nov. 25.
Loading device. W. A. Freeman. 1,782,607; Nov. 25.
Lock: *See*—
Bolt lock. Tire-chain lock.
Electric lock.
Locomotive, Turbine-driven. A. Lysholm. 1,783,126; Nov. 25.
Loom. J. H. Dodge. 1,782,987; Nov. 25.
Loom, Electrically-driven. E. W. Stone and E. Martin. 1,782,945; Nov. 25.
Looms, Shuttle-guard device for shuttles without threading device for automatic. E. Egli. 1,782,604; Nov. 25.
Looms, Weft stop mechanism for. J. B. Jackson. 1,782,782; Nov. 25.
Lubricant and process of making, Engine. R. E. Clough. 1,782,501; Nov. 25.

Lubricating device for pneumatically-operated tools. C. A. Norgren. 1,782,741; Nov. 25.
Lubrication system for roller-mill rollers, Central. P. Davidson. 1,782,867; Nov. 25.
Lute. R. B. McCarty. 1,782,932; Nov. 25.
Machine and method for applying closures. O. N. Tevander. 1,782,553; Nov. 25.
Machine and method for constructing concrete pipe. A. W. Schultz. 1,782,446; Nov. 25.
Machine for applying cement to can tops. B. E. Taylor. 1,782,450; Nov. 25.
Machine for beading and flanging metal barrels. B. J. Lindgren. 1,782,994; Nov. 25.
Machine for flanging plate disks. O. and L. Wild. 1,782,641; Nov. 25.
Machine for forming articles from sheet material. B. M. Fine. 1,782,777; Nov. 25.
Machine for forming rings of segmental pieces. E. J. Guay and F. S. Godfrey. 1,783,040; Nov. 25.
Machine for ironing furs. F. Géza. 1,782,722; Nov. 25.
Machine for making and applying caps to bottles and the like. A. J. Jonsson. 1,782,900; Nov. 25.
Machine heater, Can-cleaning-. D. A. Maanum. 1,782,876; Nov. 25.
Magnetic core. W. J. Morrill. 1,783,050; Nov. 25.
Magnetic core. P. Trombetta. 1,782,521; Nov. 25.
Magnetic core. J. J. Vienneau. 1,783,063; Nov. 25.
Magnetizable objects, Arrangement for testing. H. Chappuzeau and O. Emersleben. 1,782,462; Nov. 25.
Magneto. C. F. Reis. 1,782,939; Nov. 25.
Marking device for can-closing machines. J. Coyle. 1,783,109; Nov. 25.
Mask, Face. M. Gimenez. 1,783,080; Nov. 25.
Massaging machine, Electric. F. W. Knott. 1,783,171; Nov. 25.
Materials to retard fading, Treatment of. E. W. Geisler. 1,783,114; Nov. 25.
Measuring apparatus, Oil-. J. W. Woodruff. 1,782,704; Nov. 25.
Measuring instrument, Electrical. F. E. Terman. 1,782,588; Nov. 25.
Mechanical movement. W. C. Denham. 1,782,888; Nov. 25.
Mechanical movement. W. F. Reschke. 1,782,697; Nov. 25.
Meridian for globes, Movable. J. F. Johnson. 1,782,924; Nov. 25.
Metals, Electrodeposition of. J. Hollins. 1,782,614; Nov. 25.
Metals, Recovering. U. A. Garred. 1,782,418; Nov. 25.
Meter: *See*—
Electric meter.
Milk cooler. H. E. Cann. 1,782,840; Nov. 25.
Milk cooler. L. Rosenfeld. 1,783,100; Nov. 25.
Mill guide, Roller-. M. Gorham. 1,784,148; Nov. 25.
Mitt, Combination polish applying and finishing. C. A. Crane. 1,782,502; Nov. 25.
Mixing apparatus. A. B. and C. R. Smith. 1,782,795; Nov. 25.
Mold: *See*—
Pipe mold.
Mold. A. S. Ferriera. 1,782,813; Nov. 25.
Molding machine. T. O. Morris and J. J. Lawlor. 1,782,762; Nov. 25.
Money changer. A. S. Ross. 1,782,666; Nov. 25.
Mono- and di-carbalkoxy-diarylthioureas as accelerators in the vulcanization of rubber, Use of the. C. J. T. Cronshaw and W. J. S. Naunton. 1,782,842; Nov. 25.
Motor controller. R. B. Hunter. 1,782,424; Nov. 25.
Motor for fuel pumps, Solenoid. W. C. Carter. 1,782,407; Nov. 25.
Motor-protective device. W. J. Brennen. 1,782,458; Nov. 25.
Mounting for piezo-electric devices. R. S. Ohl. 1,783,131–2; Nov. 25.
Mounting, Instrument-board. H. H. Boyce. 1,782,405; Nov. 25.
Mouthpiece. J. P. Woodside. 1,782,559; Nov. 25.
Mower, Electrically-operated lawn. D. H. Stokes. 1,782,636; Nov. 25.
Muffler. A. H. Aaron. 1,782,396; Nov. 25.
Necktie clip. E. D. Milks. 1,783,049; Nov. 25.
Nitro derivatives of 9 aminoacridine and preparing the same, Basic. H. Jensch and O. Eisleb. 1,782,727; Nov. 25.
Noise in machinery, Eliminating. H. C. Snook. 1,782,912; Nov. 25.
Noncylindrical articles, Producing. C. Booth. 1,783,034; Nov. 25.
Nozzle, Vacuum-cleaner. S. H. Rippey. 1,782,882; Nov. 25.
Nut, Lock. M. Colantuono. 1,782,463; Nov. 25.
Obstetrical extractor. E. Froehlich. 1,782,814; Nov. 25.
Oil and natural-gas separator, Crude-. M. H. Kotzebue. 1,782,783; Nov. 25.
Oil burner. A. A. Lapointe. 1,782,730; Nov. 25.
Oil burner. W. W. Stuart. 1,782,668; Nov. 25.
Oil, Cracking hydrocarbon. J. G. Hawthorne. 1,782,686; Nov. 25.
Oil, Process and apparatus for treating. J. Delattre-Seguy. 1,782,809; Nov. 25.
Oil, Producing rosin. J. N. Borglin. 1,782,401; Nov. 25.
Oil saver. B. B., and A. M. Hoffman. 1,782,851; Nov. 25.
Oiling mechanism for spinning frames and the like. Gravity. W. C. McGee. 1,782,624; Nov. 25.
Oils, Cracking hydrocarbon. R. J. Dearborn. 1,783,010; Nov. 25.
Oils, Dewaxing hydrocarbon. A. R. Greig. 1,782,467; Nov. 25.
Oleaginous material, Apparatus for treating. J. Davidson. 1,782,714; Nov. 25.
Ore and similar material, Apparatus for stacking. G. D. Moody. 1,782,906; Nov. 25.
Ornithopter. G. R. White. 1,783,029; Nov. 25.
Oscillating joint. L. Thiry. 1,782,770; Nov. 25.
Oscillator, Piezo-electric. R. S. Ohl. 1,783,130; Nov. 25.
Oven-wall structure, Coke-. F. Totzek. 1,782,638; Nov. 25.
Packing. B. P. Joyce. 1,782,656; Nov. 25.
Packing device. C. W. Gerlach. 1,783,079; Nov. 25.
Packing for safety-razor blades. D. C. Williams. 1,782,797; Nov. 25.
Panel for mold walls. F. J. Gremel. 1,782,921; Nov. 25.
Paper and making same, Reenforced filter. F. W. Manning. 1,782,784; Nov. 25.
Paper clip. H. J. Ries. 1,783,099; Nov. 25.
Paper, Embossed glassine. E. H. Scheele. Des. 82,627; Nov. 25.
Paper-strip-controlling mechanism. R. J. Jauch. 1,782,618; Nov. 25.
Papers and filter fabrics, Making filter. F. W. Manning. 1,782,785; Nov. 25.
Pattern. H. H. Smith. 1,783,004; Nov. 25.
Pedal for bicycles, etc., Ball-bearing. C. A. Persons. 1,782,973; Nov. 25.
Pelt-dehairing machine. R. H. Plass. 1,782,662; Nov. 25.
Pen, Fountain. J. A. Kiedrowski. 1,783,090; Nov. 25.
Percolator, Coffee. J. Dym. 1,782,958; Nov. 25.
Perforating machine, Strip-. A. S. Howell. 1,782,570; Nov. 25.
Petroleum hydrocarbons, Cracking and processing. J. C. Black. 1,782,676; Nov. 25.
Phenols, Production of alkylated. H. Jordan. 1,782,966; Nov. 25.
Physics laboratory apparatus. M. B. Brenneman. 1,782,644; Nov. 25.
Piano construction. L. B. Wing. 1,782,453; Nov. 25.
Pickling solution, Apparatus for heating. W. C. Siefert and G. W. Pawel. 1,782,482; Nov. 25.
Pictures, etc., Automatically copying pictures and making printing plates for printing. H. Drewell. 1,782,717; Nov. 25.
Pictures, Transmission of. E. F. W. Alexanderson and R. D. Kell. 1,783,031; Nov. 25.
Pipe ends, Method of and apparatus for reshaping deformed. C. A. Hill. 1,783,088; Nov. 25.
Pipe joint. R. W. Spencer and H. P. Harris. 1,782,484; Nov. 25.
Pipe mold, Concrete-. C. Dietrichs. 1,782,412; Nov. 25.
Piston for internal-combustion engines. J. Radloff. 1,783,054; Nov. 25.
Piston, Oil-conserving. C. E. Johnson. 1,782,428; Nov. 25.
Piston ring. C. E. Johnson. 1,782,426–7; Nov. 25.
Piston-ring-burr-removing device. J. H. Hoern. 1,783,121; Nov. 25.
Piston rings, Making steel. L. C. Marshall. 1,783,047; Nov. 25.
Pitman. C. S. Wright. 1,782,863; Nov. 25.
Pitman or connecting-rod construction. P. Jameson. 1,782,655; Nov. 25.
Plansifter, Self-balancing. F. Boldizsár. 1,782,561; Nov. 25.
Plant-propagating device. M. Alland. 1,783,007; Nov. 25.
Plastering machine. F. Potyie. 1,783,098; Nov. 25.
Plow. C. Bordas de la Fé. 1,782,598; Nov. 25.
Porcelain faced crown. S. G. Supplee. 1,782,552; Nov. 25.
Porous building materials, Method of manufacturing. A. V. Carlson. 1,782,460; Nov. 25.
Powder, Cleaning. F. C. Broeman. 1,782,805; Nov. 25.
Power device, Electric. J. S. Knowlson. 1,782,927; Nov. 25.
Power generator. R. Soto. 1,782,517; Nov. 25.
Power-saving jack. S. D. Randolph. 1,782,512; Nov. 25.
Power-transmitting mechanism. G. Morgan. 1,782,543; Nov. 25.
Press: *See*—
Printing press. Screw-spindle press.
Press, particularly for testing materials, Hydraulic. A. J. Amsler. 1,782,595; Nov. 25.
Pressure indicator. J. H. Becker. 1,782,803; Nov. 25.
Pressure relieving method and apparatus for autoclaves and the like. T. Griswold, jr. 1,783,163; Nov. 25.
Printing press. G. L. Fulk. 1,782,608; Nov. 25.
Products of hydrogenation of alkylated phenols, Producing. H. Jordan. 1,782,621; Nov. 25.
Projectiles from aircraft, Device for throwing at will. F. W. van Heijst. 1,783,145; Nov. 25.
Protective arrangement. O. C. Traver. 1,783,061; Nov. 25.
Pulp, Bleaching. D. C. Andrews. 1,782,800; Nov. 25.
Pump, Parallel-series. H. M. Havens. 1,782,469; Nov. 25.
Pump, Rotary. D. C. Baker. 1,782,771; Nov. 25.
Punch and holder therefor, Quick-change. C. F. Sheridan. 1,783,028; Nov. 25.
Rack: *See*—
Towel rack.
Radiator. W. A. Belmling. 1,782,394; Nov. 25.

Radiators, Leak-tester cap for automobile. M. Anchelevich. 1,782,496; Nov. 25.
Radio circuits, Nonregenerative. O. Knight. 1,782,993; Nov. 25.
Radio dialing device. J. A. Planzer. 1,782,778; Nov. 25.
Radio leg rest. M. A. Rush. Des. 82,642; Nov. 25.
Radio loud-speaker. F. Baehn. 1,782,801; Nov. 25.
Radiosignaling. A. W. Slaght. 1,782,831; Nov. 25.
Rail. G. F. Kotrbaty. 1,782,902; Nov. 25.
Railway system, Direct-current. U. Kloss. 1,782,537; Nov. 25.
Razor conditioning and device therefor, Magnetic. J. S. Forbes. 1,783,012; Nov. 25.
Razor, Safety. R. D. Baker. 1,782,455; Nov. 25.
Receptacle provided with trays. S. F. Pratt. 1,782,630; Nov. 25.
Record-carrying device for automobiles. E. H. Souter. 1,782,942; Nov. 25.
Recuperator. W. J. Kelly, M. P. Burns, and A. Barr. 1,782,430; Nov. 25.
Reel. J. B. Palmer. 1,783,159; Nov. 25.
Refrigerating apparatus. J. F. Hoffman. 1,782,687; Nov. 25.
Refrigerating apparatus. J. F. Hoffman. 1,782,689; Nov. 25.
Refrigerating apparatus. O. C. Olsen. 1,782,628; Nov. 25.
Refrigerating system. J. F. Hoffman. 1,782,651; Nov. 25.
Refrigerating system. J. F. Hoffman. 1,782,688; Nov. 25.
Refrigerator. R. E. Franklin. 1,782,720; Nov. 25.
Refrigerator-display-case construction. V. P. Warren. 1,782,523; Nov. 25.
Regulating system. H. T. Seeley. 1,782,514; Nov. 25.
Regulating system, Frequency-. H. Chireix. 1,782,807; Nov. 25.
Regulator. C. H. Smoot. 1,782,832; Nov. 25.
Reproducer. E. W. Kellogg. 1,783,044; Nov. 25.
Reproducing device. J. S. High. 1,782,781; Nov. 25.
Resin plasticizer. H. A. Bruson. 1,783,166; Nov. 25.
Resinous condensation product. A. H. V. Durr. Re17,878; Nov. 25.
Ring: *See*—
Piston ring.
Ring for the unwinding of yarn from yarn containers in cable-cord frames or other twisting or doubling frames. J. H. Blackburn and W. E. Bancroft. 1,782,772; Nov. 25.
Rivet and burr, Machine-attached. P. E. Fenton. 1,783,113; Nov. 25.
Road-building apparatus. W. Bayley. 1,782,707; Nov. 25.
Road grader. A. F. Johnson. 1,782,992; Nov. 25.
Road machinery. D. B. Cook. 1,783,009; Nov. 25.
Roasting apparatus. R. H. Talbutt and F. A. Allner. 1,782,946; Nov. 25.
Rod for use in arc welding or cutting. J. B. Green. 1,783,013; Nov. 25.
Roofing elements, Edge-finishing fabricated. L. Kirschbraun. 1,782,535; Nov. 25.
Roofing elements, Edge-finishing fabricated. L. Kirschbraun. 1,782,536; Nov. 25.
Roller: *See*—
Antifriction roller. Shade roller.
Curtain roller.
Rotary engine. L. M. Randolph. 1,782,766; Nov. 25.
Rubberlike masses, Preparation of. H. A. Bruson. 1,783,167; Nov. 25.
Rubber, Vulcanization of. H. O. Chute. 1,782,713; Nov. 25.
Rudder and brake control. E. R. Weaver. 1,782,524; Nov. 25.
Saw, Dado. W. B. Huther. 1,782,507; Nov. 25.
Scale, Weighing. L. Jaenichen. 1,782,654; Nov. 25.
Scissors, Electric. A. Lucich. 1,782,473; Nov. 25.
Scraper and leveler, Ground. J. T. Compton. 1,782,646; Nov. 25.
Screen: *See*—
Faucet screen.
Screen construction, Rail-. N. Oldham. 1,783,152; Nov. 25.
Screen for disintegrating machines. A. Andreas. 1,782,953; Nov. 25.
Screen pipe and making same. R. A. Steps. 1,782,518; Nov. 25.
Screw driver. J. A. Anderson. 1,782,981; Nov. 25.
Screw driver. F. R. Bergemann. 1,783,070; Nov. 25.
Screw driver. J. A. Sigg. 1,782,515; Nov. 25.
Screw-spindle press, Frictional. O. Georg. 1,783,115; Nov. 25.
Selecting machine. J. Powers. 1,782,442; Nov. 25.
Selector mechanism. A. F. Horlacher. 1,783,122; Nov. 25.
Semitrailer, Automatic. H. W. Helms. 1,783,087; Nov. 25.
Separator: *See*—
Oil and natural-gas separator.
Sewing-machine, Feeding mechanism. H. M. Stephenson. 1,783,060; Nov. 25.
Shade, Lamp. C. T. Brady. 1,782,601; Nov. 25.
Shade roller, Metallic. W. O. N. Söderqvist. 1,782,977; Nov. 25.
Shade roller, Spring-operated. W. O. N. Söderqvist. 1,782,976; Nov. 25.
Sharpener, Electric pencil. D. J. Gawron. 1,783,038; Nov. 25.
Sharpener, Pencil. N. G. Barnard. 1,783,146; Nov. 25.
Shaving cup, Stationary. A. Piccione. 1,782,793; Nov. 25.
Sheaf-shocking machine. N. P. Boychuk and J. P. Boychuk. 1,782,837; Nov. 25.
Sherbet. J. Kirkpatrick. Des. 82,610; Nov. 25.
Shield, Anti-induction. A. Herz. 1,782,875; Nov. 25.
Shield for motor-vehicle headlights. F. N. Pape. 1,782,629; Nov. 25.
Shock absorber. G. Boella. 1,782,457; Nov. 25.
Shock absorber. W. B. Hite, jr. 1,782,533; Nov. 25.
Shock absorber. U. A. Inman. 1,782,725; Nov. 25.
Shock absorber. F. R. Reifsnyder. 1,782,631; Nov. 25.
Shoe and cleat therefor, Athletic. E. G. Howard. 1,782,569; Nov. 25.
Shoe counter. N. J. Robert. 1,782,632; Nov. 25.
Shoes, Making. J. A. Kelly. 1,782,759; Nov. 25.
Shore, Adjustable. C. M. Markham. 1,782,903; Nov. 25.
Shutter cover, Photographic-. W. D. Teague. Des. 82,631–2; Nov. 25.
Sign, Advertisement. T. Lamb and W. R. Sharp. 1,782,854; Nov. 25.
Sign, Electric. J. F. Coufal and H. A. Smith. 1,782,564; Nov. 25.
Signal device. J. L. Lamont. 1,783,124; Nov. 25.
Signaling system, High-frequency. F. W. Frink. 1,783,037; Nov. 25.
Signals, Receiving telegraphic. A. Jipp. 1,782,534; Nov. 25.
Silk, Apparatus for the manufacture of artificial. H. F. Nlogret. 1,782,581; Nov. 25.
Silk-twisting mill and like machine. L. C. Junillon and F. Gillot. 1,782,967; Nov. 25.
Silo. W. D. Bayley. 1,782,675; Nov. 25.
Sinker for knitting machines. A. E. Stewart. 1,782,486; Nov. 25.
Skate. G. A. Carney. 1,782,499; Nov. 25.
Skelp bar, Method and apparatus for the manufacture and conditioning of. J. W. Sheperdson. 1,782,700; Nov. 25.
Skiving machine. R. B. Woodcock and J. Cook. 1,782,495; Nov. 25.
Slat waxing and stacking machine. O. F. Chichester and J. J. Sylva. 1,782,645; Nov. 25.
Slate granules, Coloring. H. C. Fisher. 1,782,648; Nov. 25.
Slate granules, Forming grayish-black. H. C. Fisher. 1,782,649; Nov. 25.
Snap switch, Safety. F. F. Hafemeister. 1,782,780; Nov. 25.
Socket. H. D. Currier. 1,782,411; Nov. 25.
Socket, Tube. J. Geloso. 1,782,419; Nov. 25.
Socket, Vacuum-tube. B. Z. Moskowitz. 1,782,437; Nov. 25.
Soldering, Continuous. M. Orenstein. 1,783,134; Nov. 25.
Sole-rounding machine. R. B. Woodcock and T. A. Kestell. 1,782,494; Nov. 25.
Solvent and making the same. J. H. James. 1,782,964; Nov. 25.
Solvents, Manufacture of. J. H. James. 1,782,963; Nov. 25.
Sound, Absorption of. E. V. Amy. 1,782,399; Nov. 25.
Spark plug, Shielded. O. C. Rohde. 1,782,745; Nov. 25.
Speed-control apparatus. C. G. Garrigus. 1,782,990; Nov. 25.
Speed governing for prime movers, System of. H. B. Taylor. 1,783,157; Nov. 25.
Speed governing, System of. H. B. Taylor. 1,783,162; Nov. 25.
Speed variations, Apparatus for indicating. P. Paschen and W. Gebhardt. 1,783,000; Nov. 25.
Speedometer-testing machine. E. E. Townsend. 1,782,914; Nov. 25.
Spike-drawing device. J. F. Straube. 1,782,487; Nov. 25.
Spray drier and burner, Combined. I. Hechenbleikner. 1,782,822; Nov. 25.
Spreader. E. J. Budiong. 1,783,071; Nov. 25.
Spreader device for opening vulcanizing molds or the like. G. F. Wilson and H. E. Waner. 1,782,798; Nov. 25.
Spreader, Roll. C. L. Heisler. 1,782,470; Nov. 25.
Stalk chopper, Tractor. B. R. Benjamin. 1,782,560; Nov. 25.
Stamp, Inked. T. E. Madden. 1,782,877; Nov. 25.
Stand and mounting. W. Meyer. 1,782,660; Nov. 25.
Stand and rack, Adjustable. F. C. Huonker. 1,782,617; Nov. 25.
Stand or similar article, Flowerpot. G. Holzworth. Des. 82,607; Nov. 25.
Stapling machines, tag-affixing machines, and similar devices, Operating device for. F. Polzer. 1,782,743; Nov. 25.
Starter for internal-combustion engines. J. Hasselbring, jr. 1,783,015; Nov. 25.
Starting device for synchronous motors. W. S. Pfeifer. 1,782,908; Nov. 25.
Station, Filling. J. H. Glenn, jr., and B. L. Bennett. Des. 82,644; Nov. 25.
Steam, Apparatus for condensing. D. K. Dean. 1,782,986; Nov. 25.
Steel hull and building the same. G. G. Holbrook. 1,782,422; Nov. 25.
Stenciling. H. S. McClellan. 1,782,541; Nov. 25.

Sterilization apparatus, Fig-. J. G. Tyler, C. C. Taylor and W. S. Johnson. 1,782,522; Nov. 25.
Stirrer mechanism. W. Dierks. 1,782,957; Nov. 25.
Stone and making same, Artificial. I. J. Smith. 1,782,748; Nov. 25.
Storage bin. A. P. Skaer. 1,783,003; Nov. 25.
Strainer. A. T. Dwight. 1,783,111; Nov. 25.
Strainer. D. Larkin. 1,782,538; Nov. 25.
Strands, Apparatus for coating. R. D. Jessup. 1,782,425; Nov. 25.
Strap: *See*—
Fixture strap.
Strip-serving machine. W. Hermann. 1,782,922; Nov. 25.
Strontium oxide, Manufacture of. J. B. Pierce, jr. 1,782,830; Nov. 25.
Stuffing box. W. H. Puckett. 1,782,696; Nov. 25.
Sugar cane, Recovering the fibrous material from. J. J. de la Roza, sr. 1,782,869; Nov. 25.
Suitcase, Cabinet. C. K. Duer. 1,782,414; Nov. 25.
Sulphogroups from anthraquinone sulphonic acid derivatives, Splitting off. R. E. Schmidt. 1,782,747; Nov. 25.
Sulphur and resin compound. S. P. Miller. 1,782,693; Nov. 25.
Sulphur compounds from gases, Elimination of. G. Wietzel, J. Jannek and F. Fried. 1,782,590; Nov. 25.
Superheater. C. U. Savoye. 1,782,585; Nov. 25.
Support and housing for an electric discharge device, Combined. O. J. Moehler. Des. 82,639; Nov. 25.
Support, Lamp. J. W. Gosling. Des. 82,641; Nov. 25.
Surface covering and making the same. W. Freegard. 1782,416; Nov. 25.
Switch: *See*—
Control switch. Electrical switch.
Electric-meter switch. Snap switch.
Electric snap switch.
Switch box. C. Newman and E. G. Appleton. 1,782,545; Nov. 25.
Switch for devices for supplying paper to printing presses. J. E. Rust. 1,782,698; Nov. 25.
Switch for dispensing apparatus, Signal. A. Biron. 1,783,106; Nov. 25.
Syringe, Hypodermic. D. I. Pletcher. 1,782,938; Nov. 25.
Table: *See*—
Folding table.
Table construction. L. R. McGuire. 1,782,434; Nov. 25.
Table or the like, Night. E. J. Pauli. Des. 82,622; Nov. 25.
Tank cap, Pressure-. A. W. Kegler. 1,782,563; Nov. 25.
Tape-applying machine. L. K. Butler. 1,782,562; Nov. 25.
Tape-applying machine. J. P. Byron. 1,782,563; Nov. 25.
Taper-thread tap, Collapsing. A. F. Breitenstein. 1,782,804; Nov. 25.
Telephone-exchange system, Automatic. F. Trachsel. 1,782,491; Nov. 25.
Telephone, Hand. L. J. Loeffler. Des. 82,615; Nov. 25.
Telephone instrument switching. J. O. Cadieux. 1,782,806; Nov. 25.
Telephone system. L. M. Grandin. 1,782,847; Nov. 25.
Telephonic sounds and conversations and system therefor, Device for electrically recording. M. J. Johnson. 1,782,619; Nov. 25.
Textile fabric. F. W. Bader. Des. 82,597; Nov. 25.
Thermal cut-out and guard. G. R. Brown. 1,782,459; Nov. 25.
Thermometer, Clinical. J. A. Boutin. 1,782,599; Nov. 25.
Thrashers, Sack chute for harvester. W. F. MacGregor and R. K. Norman. 1,782,995; Nov. 25.
Ticker-tape control. J. H. Chidester. 1,783,008; Nov. 25.
Tiller. G. Peneff. 1,783,153; Nov. 25.
Tire-chain lock. B. E. Lang. 1,782,510; Nov. 25.
Tire gauge. W. E. Gochnauer. 1,783,116; Nov. 25.
Tire, Resilient. M. Leupold. 1,783,091; Nov. 25.
Tire-valve dust cap and locking mechanism therefor. J. T. Ryan. 1,782,584; Nov. 25.
Tires, Traction device for. C. R. Stewart. 1,783,161; Nov. 25.
Tone producer with universal audion, Electrical. F. E. Miller. 1,782,542; Nov. 25.
Tool, Agricultural. F. H. Kerr. 1,782,690; Nov. 25.
Tool, Bumping-out. W. Ferguson. 1,783,078; Nov. 25.
Tool, Burning-in. C. F. Allgaier. 1,782,952; Nov. 25.
Tool, Fishing. E. A. Hazen. 1,782,613; Nov. 25.
Tool, Hose-clamp-applying. J. Kiviaho. 1,783,123; Nov. 25.
Tool, Machine. A. M. Johnson. 1,782,573; Nov. 25.
Tool, Sheet-metal-bumping-out. W. Ferguson. 1,783,077; Nov. 25.
Tools, Guarding and guiding attachment for. S. F. Short. 1,782,448; Nov. 25.
Toothbrush. C. M. McArthur. 1,783,151; Nov. 25.
Top for smokers' stands. H. Dalton. Des. 82,603; Nov. 25.
Torch. P. M. Forster. 1,782,872; Nov. 25.
Towel rack, Swinging-arm. C. A. Mosgrove. 1,782,828; Nov. 25.
Toy. L. Marx. 1,782,786; Nov. 25.
Toy, Animated. H. E. Price. 1,782,477; Nov. 25.
Toy electric railroads, Track switch for. H. S. Becker. 1,783,069; Nov. 25.
Toy, Mechanically-operated figure. A. E. Derus. 1,782,843; Nov. 25.
Toy train tracks, Electric connecter for. H. C. Ives. 1,782,991; Nov. 25.
Toy weapon. W. Sadtler. 1,782,479; Nov. 25.
Tractor wheel. C. H. Wilks. 1,782,643; Nov. 25.
Transmission mechanism. J. Farley. 1,782,605; Nov. 25.
Transplanting device. W. R. Ober. 1,783,026; Nov. 25.
Trap: *See*—
Animal trap.
Traveling case. S. Apter. Des. 82,596; Nov. 25.
Trombone brace, Hand-adapted. E. Williams. 1,782,452; Nov. 25.
Truck, Automobile lift. R. J. Burrows. 1,782,865; Nov. 25.
Truck load sections or trays. L. W. Shelhamer. 1,782,667; Nov. 25.
Tube: *See*—
Collapsible tube.
Tube compressor, Toilet-paste-. A. O. Schaefer. 1,783,101; Nov. 25.
Tube protector, Collapsible-. N. O. Johnson. 1,782,429; Nov. 25.
Tube shield. R. Ramsdell. 1,782,443; Nov. 25.
Tube still furnace. H. Thomas. 1,782,885; Nov. 25.
Tube-stock feeding, measuring, and cutting machine. A. R. Krause and A. C. Hirsch. 1,782,658; Nov. 25.
Tubes, Rolling. A. T. Keller. 1,782,968; Nov. 25.
Turbine-regulating device. G. A. Biggs. 1,782,456; Nov. 25.
Type-page frame. E. B. Howe. 1,783,042; Nov. 25.
Typographical casting machine. A. W. F. Guest. 1,782,468; Nov. 25.
Universal joint. G. W. Van Deren. 1,782,492; Nov. 25.
Urea, Manufacture of. H. C. Hetherington and H. J. Krase. 1,782,723; Nov. 25.
Vacuum cleaner. H. B. Sharman and A. E. Burrage. 1,783,058; Nov. 25.
Vacuum cleaner. A. L. Wenner-Gren. 1,782,640; Nov. 25.
Valve. S. Kneass, jr. 1,782,970; Nov. 25.
Valve action for internal-combustion engines. E. S. Cameron. 1,782,859; Nov. 25.
Valve bag. C. C. Martin. 1,782,738; Nov. 25.
Valve device, Foot. J. C. McCune. 1,782,578; Nov. 25.
Valve, Emergency cartridge-type shut-off. L. D. Lovekin. 1,782,760; Nov. 25.
Valve for pneumatic tires or the like. E. V. Myers. 1,782,580; Nov. 25.
Valve reamer, Triple-. J. R. Ricketts. 1,782,910; Nov. 25.
Vanity case. H. B. Ivey. 1,782,726; Nov. 25.
Vending machine, Coin-operated. C. F. Kurtz. 1,782,659; Nov. 25.
Vending machine, Coin-operated. F. J. Rowse. 1,782,768; Nov. 25.
Ventilating apparatus. H. L. Elliott and R. A. Carroll. 1,782,890; Nov. 25.
Ventilating apparatus. A. W. Stewart. 1,783,005; Nov. 25.
Ventilator for vehicles. C. S. Warnock. Des. 82,645; Nov. 25.
Vessel, High-speed. R. Deetjen. 1,782,868; Nov. 25.
Vise. T. M. Lilleberg. 1,782,929–30; Nov. 25.
Wall and partition construction for insulating purposes. R. Sadwith. 1,782,794; Nov. 25.
Wall covering and support therefor. W. M. Connery. 1,782,774; Nov. 25.
Washing, bleaching, and dyeing artificial silk in hanks or spinning cakes, Apparatus. J. von den Driesch. 1,783,103; Nov. 25.
Washing machine. G. M. Gibson. 1,782,684; Nov. 25.
Washing machine, Car-. H. W. Cordell and J. R. Blackhall. 1,783,074; Nov. 25.
Waste and vent fitting. J. J. Crotty. 1,782,775; Nov. 25.
Water and apparatus therefor, Purifying. R. L. Hill. 1,782,850; Nov. 25.
Water, Method of and apparatus for controlling boiler feed. J. L. Kimball. 1,782,926; Nov. 25.
Web-cutting mechanism. A. Baumgartner. 1,782,674; Nov. 25.
Weighing apparatus, Indicating means for. A. Van Duyn. 1,782,670; Nov. 25.
Welding machine. V. J. Chapman. 1,782,461; Nov. 25.
Wheel: *See*—
Tractor wheel.
Wheel aligner. M. A. Lahr. 1,782,827; Nov. 25.
Wheel-lifting device. A. J. G. Bolard. 1,782,400; Nov. 25.
Wheel-lug cleaner. J. and F. Thies. 1,782,637; Nov. 25.
Window-regulator handle. J. L. Brownell. Des. 82,890; Nov. 25.
Window-screen structure. K. F. Jorss. 1,782,853; Nov. 25.
Wire-cloth covering for pressing-machine elements, Woven-. G. F. Simpson. Re17,883; Nov. 25.
Woodworking machinery. J. E. Hirst. 1,783,041; Nov. 25.
Workholder. C. S. Hopwood. 1,782,615; Nov. 25.
Wrapper, Confection. H. A. Meyer. 1,782,856; Nov. 25.
Wrecker bar. W. F. Henderson. 1,782,506; Nov. 25.
Wrench. A. Weisler. 1,782,752; Nov. 25.
Zinc slabs and the like, Apparatus for casting. D. M. Gray and J. J. Williams. 1,782,920; Nov. 25.

CLASSIFICATION OF PATENTS

ISSUED NOVEMBER 25, 1930

NOTE.—First number=class, second number=subclass, third number=patent number

2— 27: 1,782,892
50: 1,782,925
132: R. 17,885
138: 1,782,913
4— 211: 1,782,774
1,782,775
5— 80: 1,782,672
285: 1,782,988
8— 2: 1,782,900
1,783,114
19: 1,783,103
10— 100: 1,782,472
145: 1,782,804
12— 17: 1,782,999
25: 1,782,494
77: 1,782,802
142: 1,782,759
15— 17: 1,783,068
53: 1,783,074
122: 1,782,859
155: 1,782,882
188: 1,783,151
227: 1,782,502
16— 131: 1,782,490
163: 1,783,076
169: 1,782,582
18— 1: 1,782,989
2: 1,782,798
8: 1,782,581
50: 1,783,057
53: 1,782,713
1,782,842
19— 2: 1,782,662
12: 1,782,918
130: 1,782,549
138: 1,782,624
20— 1.13: 1,782,997
71: 1,782,415
22— 25: 1,782,762
65: 1,782,898
1,783,094
73: 1,782,920
82: 1,783,128
202: 1,782,447
23— 186: 1,782,830
225: 1,782,590
233: 1,782,857
268: 1,782,841
288: 1,782,824
292: 1,782,644
24— 17: 1,782,404
1,782,438
1,782,439
1,782,440
19: 1,782,476
1,782,680
20: 1,782,465
69: 1,782,510
90.5: 1,782,509
103: R. 17,877
129: 1,782,625
205: R. 17,881
210: 1,782,665
255: 1,783,049
257: 1,783,119
261: 1,783,099
25— 1: 1,782,820
30: 1,782,412
1,782,446
99: 1,782,413
131: 1,782,897
1,782,921
28— 5: 1,782,764
1,782,765
29— 33: 1,783,121
62: 1,783,039
148.2: 1,782,899
155.5: 1,783,063
156.6: 1,783,047
163.6: 1,782,518
30— 1: 1,782,473
10: 1,782,901
12: 1,782,455
14: 1,782,971
31— 14: 1,783,096
32— 29: 1,782,552
33— 14: 1,783,004
203: 1,782,827
205: 1,782,474
34— 5: 1,782,946
26: 1,782,626
46: 1,783,030
35— 5: 1,782,924
36— 1: 1,782,620
2: 1,782,504
22: 1,782,466
42: 1,782,436
59: 1,782,569
68: 1,782,632
37— 85: 1,782,478
119: 1,782,497
140: 1,782,646
146: 1,783,009
156: 1,782,992
40— 10: 1,782,942
52: 1,782,883
77: 1,782,834
120: 1,782,965
126: 1,782,665
1,782,943
1,782,944
130: 1,782,564
1,782,721
1,782,854
43— 66: 1,782,661
68: 1,783,144
44— 7: 1,783,133
45— 11: 1,782,623
31: 1,782,434
136: 1,782,793
138: 1,782,695
46— 37: 1,782,555
40: 1,782,433
1,782,477
1,782,576
1,782,786
1,782,818
1,782,833
1,782,843
47— 38: 1,783,007
48— 85.1: 1,782,677
176: 1,782,861
1,782,949
49— 17: 1,782,972
81.5: 1,782,852
51— 34: 1,783,019
103: 1,782,480
109: 1,782,475
187: 1,782,577
278: R. 17,884
1,783,034
53— 1: 1,782,417
5: 1,782,639
54— 71: 1,782,835
55— 3: 1,782,934
18: 1,783,026
56— 22: 1,782,586
26: 1,782,636
60: 1,782,560
465: 1,782,837
60— 30: 1,783,018
70: 1,783,126
61— 74: R. 17,886
62— 3: 1,782,688
1,782,689
4: 1,782,651
37: 1,782,523
43: 1,782,720
95: 1,782,628
1,782,840
115: 1,782,687
64— 91: 1,782,492
96: 1,783,158
66— 1: 1,782,879
107: 1,782,486
162: 1,782,550
67— 7.1: 1,782,544
68— 9: R. 17,883
10: 1,782,421
1,783,051
11: 1,783,147
69— 9.5: 1,782,495
70— 9: 1,782,464
70— 46: 1,782,776
71— 1: 1,782,821
72— 6: 1,783,003
16: 1,782,794
102: 1,782,638
120: 1,782,568
130: 1,783,098
73— 51: 1,782,914
52: 1,782,599
109: 1,783,116
74— 7: 1,782,983
14: 1,782,512
1,782,697
20: 1,782,746
1,782,888
26: 1,783,115
34: 1,782,520
1,782,756
38: 1,783,073
47: 1,782,655
56: 1,782,912
58: 1,782,543
81: 1,782,743
108: 1,782,428
109: 1,782,426
1,782,427
1,783,071
75— 1: 1,783,139
17: 1,782,418
18: 1,783,046
27: 1,782,923
77— 2: 1,782,910
5: 1,782,573
80— 11: 1,782,968
51: 1,783,148
81— 5.1: 1,782,871
9.3: 1,783,123
15: 1,783,077
1,783,078
19: 1,782,930
39: 1,782,929
118: 1,782,752
82— 20: 1,782,602
83— 9: 1,782,953
26: 1,782,736
84— 1: 1,782,542
187: 1,782,453
309: 1,783,117
395: 1,782,452
85— 5: 1,782,463
37: 1,783,113
87— 2: 1,782,401
5: 1,782,805
6: 1,782,714
9: 1,782,501
88— 20: 1,782,705
54: R. 17,887
187: 1,783,169
89— 10: 1,783,053
91— 17: 1,782,425
38: 1,782,922
51: 1,782,645
54.4: 1,782,505
62.6: 1,782,681
68: 1,782,535
1,782,536
70: 1,782,648
1,782,649
92— 3: 1,782,751
9: 1,782,869
14: 1,782,755
21: 1,782,855
39: 1,782,785
40: 1,782,784
93— 35: 1,782,884
41: 1,782,611
47: 1,782,777
54: 1,782,799
94— 48: 1,782,707
95— 12.5: 1,782,860
1,782,864
75: 1,783,045
97— 46: 1,782,690
52: 1,782,593
110: 1,782,598
184: 1,783,081
216: 1,783,153
98— 38: 1,783,005
99— 2: 1,782,522
8: 1,782,761
10: 1,782,960
13: 1,783,154
101— 125: 1,782,877
126: 1,782,541
180: 1,782,608
394: 1,782,587
404: 1,783,042
102— 12: 1,782,479
103— 5: 1,782,489
69: 1,782,517
106: 1,782,469
112: 1,782,656
148: 1,783,095
236: 1,782,592
105— 230: 1,782,589
106— 8: 1,782,932
22: 1,783,166
23: 1,782,693
24: 1,782,460
1,782,748
27: 1,782,471
107— 19: 1,782,813
28: 1,782,596
108— 7: 1,782,416
111— 47: 1,782,948
51: 1,783,032
53: 1,782,583
112— 204: 1,783,060
113— 1: 1,783,109
80: 1,782,450
109: 1,783,134
114— 66.5: 1,782,868
1,782,893
79: 1,782,422
203: 1,782,979
208: 1,782,449
116— 37: 1,783,000
47: 1,782,773
124.4: 1,782,778
129: 1,782,670
117— 23: 1,782,772
1,782,967
119— 35: 1,782,609
77: 1,782,673
82: 1,782,554
120— 26: 1,782,792
42: 1,783,090
90: 1,783,146
96: 1,783,038
121— 2: 1,782,844
71: 1,782,766
122— 452: 1,782,926
481: 1,782,585
510: 1,782,885
123— 25: 1,782,642
58: R. 17,879
74: 1,782,740
76: 1,783,075
90: 1,782,839
127: 1,782,709
133: 1,782,602
169: 1,782,745
171: 1,782,513
1,783,065
176: 1,783,054
179: 1,782,940
191: 1,782,395
196: 1,782,718
124— 10: 1,782,664
126— 114: 1,783,065
121: 1,783,140
152: 1,782,947
190: 1,782,739
214: 1,782,699
350: 1,782,876
127— 6: 1,782,603
128— 63: 1,782,866
1,783,171
164: 1,783,060
218: 1,782,938
361: 1,782,814
129— 16.1: 1,782,442
24: 1,782,647
131— 5: 1,782,827
132— 1: 1,782,911
41: 1,782,650
1,783,108
134— 60: 1,782,540
136— 170: 1,782,984
137— 75: 1,782,675
103: 1,782,873
111: 1,783,163
160: 1,782,396
162: 1,782,760
138— 17: 1,782,595
139— 125: 1,782,987
127: 1,783,125
252: 1,782,604
261: 1,782,749
336: 1,782,945
371: 1,782,782
141— 9: 1,782,950
143— 37: 1,782,894
45: 1,783,041
144— 238: 1,782,507
289: 1,782,846
145— 50: 1,782,515
1,782,981
51: 1,782,448
52: 1,782,565
1,783,070
148— 23: 1,783,013
149— 24: 1,782,722
150— 9: 1,782,738
152— 11.5: 1,782,803
12: 1,782,580
1,782,584
14: 1,783,161
22: 1,783,091
153— 2: 1,782,700
1,782,994
54: 1,782,483
1,782,641
79: 1,783,088
154— 33: 1,782,767
42: 1,782,562
1,782,563
155— 75: 1,782,763
157: 1,782,398
182: 1,782,815
156— 16: 1,782,954
29: 1,782,977
31: 1,782,905
36: 1,782,976
1,783,002
38: 1,782,853
39: 1,783,152
158— 27.4: 1,782,872
28: 1,782,668
1,782,937
87: 1,782,730
91: 1,782,600
1,783,164
99: 1,782,683
159— 4: 1,782,822
164— 48: 1,782,658
49: 1,783,023
1,783,040
50: 1,782,420
65: 1,782,570
66: 1,782,674
169— 23: 1,782,838
31: 1,782,539
171— 95: 1,782,519
1,782,588
97: 1,782,558
1,782,875
1,783,048
119: 1,782,514
206: 1,783,064
209: 1,782,939
327: 1,783,014
1,783,130
1,783,131
1,783,132
172— 36: 1,782,458
1,782,927
126: 1,782,407
152: 1,782,708
179: 1,782,424
238: 1,782,634
172— 239: 1,782,832
1,783,122
289: 1,782,908
173— 13: 1,782,812
31: 1,783,035
267: 1,782,787
303: R. 17,880
1,783,016
318: 1,782,790
326: 1,782,419
332: 1,783,062
339: 1,783,020
361: 1,782,527
174— 177: 1,782,906
175— 30: 1,783,052
183: 1,782,397
1,782,402
1,782,403
1,782,462
264: 1,782,712
265: 1,783,012
294: 1,783,061
1,783,105
355: 1,783,157
1,783,162
356: 1,782,521
1,783,050
359: 1,782,444
176— 115: 1,782,485
177— 353: 1,782,907
178— 2: 1,783,067
6: 1,783,031
11: 1,782,717
179— 2.5: 1,783,037
6: 1,782,619
27.5: 1,782,491
37: 1,782,547
100.41: 1,782,781
1,783,044
106: 1,783,138
159: 1,782,806
171: 1,782,993
180— 1: 1,782,508
90: 1,782,405
181— 0.5: 1,782,445
22: 1,782,559
27: 1,782,801
30: 1,782,399
183— 2.7: 1,782,783
46: 1,782,823
69: 1,783,143
74: 1,782,640
184— 6: 1,782,867
50: 1,782,741
187— 1: 1,782,671
188— 32: 1,783,102
62: 1,782,874
86: 1,782,838
1,782,631
89: 1,782,825
90: 1,782,104
92: 1,782,663
130: 1,782,457
152: 1,782,565
1,782,571
189— 1: 1,782,895
3: 1,782,675
10: 1,782,789
190— 41: 1,782,414
191— 8: 1,782,537
29: 1,782,991
192— 4: 1,782,891
28: 1,782,572
47: 1,782,605
68: 1,782,880
147: 1,782,990
193— 15: 1,782,995
17: 1,782,734
194— 1: 1,782,666
1,782,768
97: 1,782,659
196— 28: 1,782,808
58: 1,782,676
60: 1,782,686
1,783,010
116: 1,782,829
128: 1,782,809

196— 128: 1,782,810
1,782,811
198— 126: 1,782,933
135: 1,782,716
128: 1,782,996
199— 25: 1,782,694
39: 1,782,468
200— 56: 1,782,454
63: 1,782,536
67: 1,782,780
119: 1,782,459
130: 1,782,719
137: 1,782,530
138: 1,782,653
153: 1,783,106
156: 1,782,594
159: 1,782,698
163: 1,782,547
164: 1,782,916
202— 8: 1,782,556
68: 1,783,086
173: 1,782,959
204— 5: 1,782,909
11: 1,782,614
20: 1,782,616
206— 7: 1,783,068
16: 1,782,630
38: 1,782,726
46: 1,782,526
1,782,797
65: 1,782,429
208— 70: 1,782,973
167: 1,782,499
209— 73: 1,782,826
244: 1,783,127
366: 1,782,561
210— 9: 1,782,850
63: 1,782,575
159: 1,783,111
164: 1,782,531
166: 1,782,702
170: 1,783,062
183: 1,782,538
211— 96: 1,782,828
212— 17: 1,783,021

212— 89: 1,782,528
145: 1,782,406
214— 16.1: 1,782,410
23: 1,782,955
51: 1,782,503
94: 1,782,607
138: 1,783,055
1,783,056
215— 38: 1,782,532
51: 1,782,731
63: 1,783,027
100: 1,782,886
1,782,962
217— 53: 1,783,079
125: 1,782,431
219— 8: 1,782,461
19: 1,782,825
21: 1,782,952
40: 1,782,482
43: 1,782,958
220— 25: 1,783,129
26: 1,783,118
85: 1,782,496
221— 47.3: 1,782,441
56: 1,782,579
60: 1,782,980
1,783,101
64: 1,783,160
74: 1,782,715
77: 1,782,657
103: 1,782,704
223— 20: 1,782,935
31: 1,783,112
54: 1,782,615
225— 26: 1,782,678
226— 48: 1,782,733
80: 1,782,553
84: 1,782,900
1,782,904
227— 22: 1,782,951
229— 5.5: 1,782,961
15: 1,782,915
87: 1,782,856
230— 49: 1,782,975
114: 1,783,036

230— 159: 1,783,017
205: 1,782,771
233— 11: 1,782,467
14: 1,782,974
1: 1,783,093
234— 5.5: 1,782,525
59: 1,782,757
235— 131: 1,783,172
23: 1,782,635
236— 10: 1,782,941
238— 144: 1,782,902
1: 1,782,601
36: 1,783,136
41: 1,782,551
45: 1,782,629
49: 1,782,917
85: 1,782,791
106: 1,782,732
123: 1,782,516
242— 71: 1,782,529
75: 1,783,008
96: 1,783,159
107: 1,782,669
244— 1: 1,783,145
12: 1,782,965
15: 1,782,878
18: 1,782,753
19: 1,783,011
1,783,024
20: 1,783,039
22: 1,782,557
1,782,858
29: 1,782,524
1,782,750
246— 130: 1,783,124
160: 1,782,788
419: 1,783,069
247— 3: 1,783,120
21: 1,782,545
1,782,546
27: 1,782,548
1,782,779
248— 2: 1,782,903
30: 1,782,411
1,782,437

248— 41: 1,782,617
1,782,660
250— 8: 1,782,534
20: 1,782,831
27: 1,782,500
1,783,059
27.5: 1,782,443
33: 1,783,025
1,783,072
36: 1,782,907
251— 24: 1,782,578
29: 1,782,970
167: 1,782,758
252— 2: 1,782,744
3: 1,782,493
1,783,110
253— 122: 1,782,498
156: 1,782,450
254— 10: 1,782,865
21: 1,782,487
27: 1,782,506
97: 1,782,589
133: 1,782,400
166: 1,782,703
169: 1,782,679
255— 16: 1,783,006
23: 1,782,709
257— 43: 1,782,986
137: 1,782,711
122: 1,783,033
125: 1,782,394
183: 1,783,100
202: 1,782,612
228: 1,782,435
239: 1,782,409
241: 1,782,652
248: 1,782,574
258— 2: 1,782,936
259— 39: 1,783,092
101: 1,782,684
108: 1,782,795
109: 1,782,957
260— 2: 1,782,887
8: R.17,878
1,783,165

260— 8: 1,783,167
1,783,168
12: 1,783,083
1,783,084
15: 1,782,432
36: 1,782,727
49: 1,782,706
53: 1,782,724
59: 1,782,747
61: 1,783,137
85: 1,782,682
102: 1,782,796
106: 1,782,591
1,782,963
1,782,964
125: 1,782,723
127: 1,782,729
154: 1,782,621
1,782,966
168: 1,782,488
261— 11: 1,782,890
44: 1,782,848
80: 1,782,928
93: 1,782,511
113: 1,782,735
114: 1,782,862
262— 33: 1,782,408
263— 1: 1,782,423
7: 1,782,956
1,783,155
1,783,156
8: 1,782,451
1,782,481
20: 1,782,430
265— 69: 1,782,654
266— 1.5: 1,783,135
7: R.17,882
267— 54: 1,782,770
268— 35: 1,782,978
1,782,982
271— 2.1: 1,782,470
1,782,618
74: 1,782,881
272— 72: 1,782,728
273— 32: 1,783,089

273— 51: 1,782,849
87: 1,782,931
279— 16: 1,782,633
93: 1,783,028
280— 6: 1,782,610
33.1: 1,783,087
158: 1,782,637
281— 43: 1,783,022
285— 22: 1,782,737
92: 1,782,484
176: 1,782,691
286— 16: 1,782,696
1,782,851
287— 93: 1,782,863
288— 1: 1,782,870
289— 3: 1,783,001
290— 37: 1,783,015
40: 1,783,142
292— 5: 1,782,845
202: 1,783,150
241: 1,782,896
263: 1,782,816
347: 1,783,097
293— 15: 1,783,066
294— 57: 1,783,107
86: 1,782,613
91: 1,782,754
296— 1: 1,782,667
1,782,817
1,782,998
35: 1,782,742
299— 24: 1,782,919
301— 5: 1,782,643
303— 1: 1,782,567
6.1: 1,783,043
304— 1: 1,782,701
308— 60: 1,782,999
145: 1,782,710
201: 1,783,141
203: 1,782,622
312— 15: 1,782,606
21: 1,783,170
42: 1,782,597
60: 1,783,149
138: 1,782,819

U. S. GOVERNMENT PRINTING OFFICE: 1930

Patents Nos. 1,780,150 to 1,780,895

THE OFFICIAL GAZETTE

OF THE

United States Patent Office

Vol. 400—No. 1 TUESDAY, NOVEMBER 4, 1930 Price—$10 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscription, $10.00 per annum; including annual indexes, $11.50; single numbers, 25 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or concerning TRADE-MARKS, PRINTS, and LABELS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

CONTENTS

	Page
Issue of November 4, 1930	1
Notice—Number of Typewritten Briefs Required When Printing Has Been Dispensed With	1
Destruction of Files—Abandoned Applications—Act of April 11, 1930	1
Disclaimer	1
Applications Under Examination	2
Commissioner's Decisions—	
Ex parte Arbuckle	3
Ex parte Messick	3
Decisions of the U. S. Courts—	
In re Tabb	4
In re Rohlfs	5
Buchanan v. Burrage, Jr.	6
Martus and Becker v. Heise	7
Pierson v. Beck	8
Patent Suits	9
Adjudicated Patents	10
Adverse Decisions in Interference	10
Trade-Marks Published (275 Applications)	11
Trade-Mark Registrations Granted	44
Labels	51
Prints	52
Reissues	53
Designs	54
Patents Granted	57

Issue of November 4, 1930

Trade-Marks	206—No.	276,940 to No.	277,145, inclusive.
Labels	38—No.	38,181 to No.	38,218, inclusive.
Prints	22—No.	12,772 to No.	12,793, inclusive.
Reissues	3—No.	17,853 to No.	17,855, inclusive.
Designs	63—No.	82,409 to No.	82,471, inclusive.
Patents	746—No.	1,780,150 to No.	1,780,895, inclusive.
Total	1,078		

NOTICE

NUMBER OF TYPEWRITTEN BRIEFS REQUIRED WHEN PRINTING HAS BEEN DISPENSED WITH

FINAL HEARINGS

BEFORE EXAMINERS OF INTERFERENCES, both patents and trade-marks:

1 original and 1 good carbon—
3 days before hearing.

ON APPEAL TO BOARD OF APPEALS:

1 original and 2 good carbons—
30 days for appellant and
10 days for appellee.

ON APPEAL TO THE COMMISSIONERS:

1 original and 1 good carbon—
30 days for appellant and
10 days for appellee.

ALL BRIEFS SHOULD BE SERVED

DESTRUCTION OF FILES ABANDONED APPLICATIONS

ACT OF APRIL 11, 1930

DEPARTMENT OF COMMERCE,
U. S. PATENT OFFICE, *Washington, Oct. 20, 1930.*

(ORDER No. 3,166)

Section 6 of the act of April 11, 1930 (393 O. G. 1031-2) reads as follows:

The Commissioner of Patents is hereby authorized to annually destroy or otherwise dispose of all the files and papers belonging to all abandoned applications which have been on file for more than twenty years.

(1) If any patentee calls attention within 60 days from the date of this order to an abandoned application referred to in his patent, the file of that abandoned application will be retained in this Office.

(2) If any member of the public similarly calls attention to a patent having reference to such an abandoned application, the file of that application will be retained.

(3) Except as indicated in paragraphs (1) and (2), where any applicant or the assignee of any application wishes to obtain the file of an application which has been abandoned for more than 20 years, such application will be sent to him if request therefor is made within 60 days from date of this order, provided that if request is made by the applicant for such file and the record shows an assignment thereof, the request must be accompanied by the assent of the assignee.

Except as above indicated, steps will be taken to destroy the files of all abandoned applications which have been on file longer than the 20-year period fixed by statute.

THOMAS E. ROBERTSON,
Commissioner.

Disclaimer

1,540,691.—*Walter A. Gibbs*, Wilmington, Del. ANIMAL TRAP. Patent dated June 2, 1925. Disclaimer filed October 11, 1930, by the patentee.

Hereby enters this disclaimer to claims 14 and 15 in said specification which are in the following words, to wit:

"14. In an animal trap, the combination with a pair of pivotally mounted jaws, of a closing lever embracing the jaws and pivotally mounted between the jaw pivots, a spring bearing against the back of the lever and adapted to elevate the lever to close the jaws, and means on the lever for preventing displacement of the spring from behind the lever.

"15. In an animal trap, the combination with a pair of pivotally mounted jaws, of a substantially flat closing lever embracing the jaws and pivotally mounted between the jaw pivots, a coiled spring having one end bearing against the back of the lever and adapted to elevate the latter to close the jaws, and a flange at the side of the lever to prevent displacement of the end of the spring from behind the lever."

Condition of Applications Under Examination at Close of Business October 24, 1930

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 115,687; Trade-Mark Division, 1,445. Oldest new case, Dec. 24, 1929; oldest amended, Dec. 24, 1929. The dates given are 1930 except where † indicates 1929.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	Feb. 10	Feb. 15	1,252
126	2. HADEN, C. F., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Velocipedes.	Jan. 22	Jan. 27	1,856
331	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	Feb. 19	June 25	1,408
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	Mar. 19	Mar. 17	1,346
108*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	Feb. 1	Feb. 1	1,398
318	6. LEWERS, A. M., Carbon Chemistry	Jan. 4	Jan. 7	2,479
106	7. JARBOE, C. G., Optics; Photography	Jan. 5	Jan. 5	2,097
133	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Feb. 5	Mar. 3	1,805
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Apr. 1	Apr. 1	1,606
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Feb. 17	Mar. 1	1,654
148*	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Mar. 31	Apr. 14	981
380	12. HENRY, C. C., Machine Elements	Feb. 18	Feb. 18	1,688
154*	13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Feb. 13	Feb. 6	1,466
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	Jan. 25	Feb. 21	1,425
329	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	†Dec. 26	†Dec. 26	3,121
242*	16. SPENCER, C. J., Telegraphy; Telephony	Feb. 24	Mar. 20	1,295
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Jan. 8	Jan. 16	1,720
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Mar. 11	Mar. 12	1,521
236	19. HULL, A. S. (Acting), Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Jan. 3	Jan. 13	2,683
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	Jan. 27	Feb. 10	1,487
212	21. THOMPSON, T. J., Textiles; Cloth Finishing	Mar. 12	May 2	915
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Mar. 1	Mar. 26	1,582
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Jan. 3	Jan. 2	1,188
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Jan. 20	Feb. 7	1,163
202*	25. BLAKELEY, C. F., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Jan. 30	Feb. 12	1,704
228*	26. HODGES, J. S., Electricity, Generation; Motive Power	Jan. 30	Feb. 1	1,209
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Feb. 24	Feb. 25	1,489
225	28. BENSON, A. R., Internal-Combustion Engines	Jan. 14	Jan. 22	2,223
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	May 6	May 21	652
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Mar. 5	July 28	1,034
312	31. HOLMES, W. N., Distillation; Gas, Heating and Illuminating; Mineral Oils	†Dec. 26	†Dec. 26	2,918
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Apr. 12	Apr. 12	1,520
152	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	Mar. 19	Mar. 20	2,645
304	34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	Mar. 4	Mar. 4	1,001
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	May 10	May 22	1,474
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	Feb. 21	Feb. 25	2,391
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Jan. 27	Feb. 7	2,020
145	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Jan. 15	Jan. 15	1,273
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Feb. 6	Feb. 17	1,914
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	Jan. 6	Feb. 5	3,462
125	41. WHITNEY, M. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	Mar. 26	Mar. 24	1,152
223*	42. CUTTING, H. O., Electric Signaling	Feb. 1	Feb. 11	1,771
124*	43. NASH, P. N., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Feb. 5	Feb. 12	1,900
253	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	Jan. 13	Jan. 14	2,324
379	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	†Dec. 26	†Dec. 26	2,554
233	46. TAYLOR, M., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Feb. 24	Feb. 26	1,479
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	Jan. 15	Feb. 24	2,459
212*	48. ROEPKE, O. B., Electricity, General Applications	Jan. 17	Jan. 21	1,340
239	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	Mar. 31	May 7	1,635
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	†Dec. 28	†Dec. 28	3,132
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Jan. 27	Jan. 27	2,530
144	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Mar. 8	Mar. 20	2,246
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	May 15	May 5	1,176
241	54. WAITE, W. E., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Jan. 3	Jan. 4	3,065
102	55. BOWEN, S. T.—{Bread, Pastry, and Confection Making; Cutlery	July 24	July 24	352
	{Designs	Sept. 24	Oct. 10	278
309	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Jan. 31	Jan. 24	2,375
257*	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Feb. 12	Jan. 24	1,072
270*	58. DOWELL, E. F., Abrading; Typewriting	†Dec. 31	†Dec. 31	1,601
315	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Cement and Lime; Hides, Skins, and Leather; Fuel.	Feb. 15	Feb. 15	1,963
213*	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	†Dec. 24	†Dec. 24	2,407
269	61. PARKS, O. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Horology; Time-Controlling Apparatus.	†Dec. 26	†Dec. 29	2,794
245*	62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Baggage; Package and Article Carriers	†Dec. 31	Jan. 1	2,851
300	63. WINKELSTEIN, A. H., Bleaching and Dyeing; Explosive, Pyrotechnic, and Match Compositions; Oils, Fats, and Glue; Preserving; Sugar, Starch, and Carbohydrates.	Jan. 18	Jan. 17	2,566
163	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND—{Trade-Marks	Sept. 24	Oct. 11	1,208
	{Labels and Prints	Sept. 24	Oct. 10	237

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES

Commissioner's Decisions

EX PARTE ARBUCKLE

Decided June 11, 1929

SPECIFICATION—REFERENCE TO MODIFICATIONS.

A statement in the specification that other modifications may be resorted to and it is desired to claim the invention broadly, limited only by the scope of the claims, *Held* objectionable where the application has been restricted to limited claims.

[This application has resulted in Patent No. 1,772,175.]

ON PETITION.

HEADLIGHT FOR PRODUCING MULTICOLORED BEAMS

Mr. Chester H. Braselton for the applicant.

ROBERTSON, *Commissioner:*

Applicant petitions from the Examiner's requirement to cancel the words "and I desire, therefore, to claim the invention broadly," appearing in the last sentence of the specification, which reads as follows:

Many other modifications may be resorted to without departing from the spirit of the invention, and I desire, therefore, to claim the invention broadly, limited only by the scope of the appended claims.

The Examiner in the Office actions merely required the elimination of the phrase in question on the authority of *Ex parte Champ*, 114 O. G. 1827, and *Ex parte Eldon*, 83 O. G. 748. In his statement he points out that the broader claims have all been canceled in response to rejection on the art, which he states is very close to the structure here disclosed. He further argues that since the interpretation of a patent is for the courts it is thought that the applicant can not give any directions as to how the court would exercise its discretion.

The applicant argues that the language is unobjectionable, since he is simply intending to show that it was his intention to use the terms in the claims in as broad a sense as possible and that the language objected to is within the ruling in *Ex parte Jansson*, 120 O. G. 2126.

In that case, in passing upon an objection to the statement that the applicant wishes to be understood that he does not desire to be limited to the exact details of construction shown, the Commissioner stated that, in case of any doubt as to the meaning of the terms, the intent of the applicant in so using them might become material.

Obviously, however, a statement should not appear in a patent that applicant desires "to claim the invention broadly as well as specifically", if no broad claims have been allowed, and in view of the art applicant has been restricted to specific claims, since the patentee would not then be claiming the invention broadly.

The particular statement of this application that applicant desires to claim "the invention broadly, limited only by the scope of the appended claims," would likewise seem to be objectionable, all the broad claims having been rejected and canceled, as indicating that applicant was claiming the invention more broadly than the claims themselves indicated. On the other hand, even if the language could be construed as a statement that it was desired that the terms of the claims be broadly construed, it would still be objectionable if only limited claims were allowed.

The petition is denied.

EX PARTE MESSICK

Decided October 13, 1930

APPLICATION—PROSECUTION—TIME WITHIN WHICH ACTION MAY BE TAKEN.

The six months, term specified in section 4894 Revised Statutes refers to calendar months and the rule for computing a term of calendar months is that the term expires on the day of the last month corresponding to the day of the month in which the term began, if the last month has a sufficient number of days; otherwise, on the last day of that month.

PETITION to revive.

LOUD-SPEAKER CONE SUSPENSIONS

Mr. Charles Messick pro se.

KINNAN, *First Assistant Commissioner:*

The applicant has presented a petition to revive this application and the showing submitted in support of the petition is deemed to justify a holding that delay in prosecution was unavoidable.

Under the foregoing circumstances the petition would be granted without further review but the applicant has contended that his response to the Examiner's action was filed within six months and that the holding by the Examiner that the case is abandoned is in error and not according to statute.

The Examiner's action was dated and mailed February 28, 1930, and the applicant's response thereto was filed August 30, 1930. It is the applicant's view that this amendment was filed within six months after the date of the Examiner's action. It is submitted by applicant that the statute limiting response to six months refers to calendar months and reference is made to the settled practice of requiring an action by the Office under date of, for example, August 30 or 31 to be responded to not later than February 28—or February 29 when that month has 29 days—of the succeeding year. The applicant urges in effect that the reverse would be true, that if the Examiner's action were on February 28 the applicant would have until August 31.

Since it is well enough settled that if an Office action were made on February 27, response would be necessary not later than August 27, the applicant's interpretation of the statute would mean that were the Office action made on February 28, the applicant would have three days longer, until August 31st, within which to make response. It is deemed obvious no such interpretation of the statute can be supported. It is true the statute is properly interpreted as referring to calendar months as distinguished

from lunar months or from 30-day periods, but the six months include only the day in the sixth month which corresponds with the number of the day of the month upon which the Examiner's action was taken. As indicating this general rule of courts, attention is invited to the cases of *Parkhill* v. *Town of Brighton*, 61 Iowa 108, 15 N. W. 853; *Williams Bros.* v. *Bank of Blue Mountain*, 95 So. 843, 132 Miss. 178; *Oehler* v. *Walsh*, 28 Ohio Cir. Ct. R. 446; *Dailey* v. *Anderson* (Wyo.), 48 P. 839, 7 Wyo. 1, 75 Am. St. Rep. 870. It will be noted that this last decision correctly sets forth the practice in this Office that the rule for computing a term of calendar months is that the term expires on the day of the last month corresponding to the day of the month in which the term began, if the last month has a sufficient number of days; otherwise, on the last day of that month.

The foregoing is in accordance with the following decisions: *Ex parte Cannon*, opinion of the Assistant Attorney General, 94 O. G. 2165, 1901 C. D. 263; *ex parte Poulson*, 175 O. G. 265.

The Examiner correctly interpreted the statute in holding that the applicant's response of August 30, 1930, was not made within six months from February 28, 1930.

The petition to revive is in view of the showing in excuse of the delay granted.

U. S. Court of Customs and Patent Appeals

IN RE TABB

No. 2,350. Decided May 28, 1930

[40 F.(2d) 780]

1. PATENTABILITY—BRASSIÈRES—FUNCTIONAL CLAIMS.
   Claims for a brassière including the limitation "a front cover member for the bust, twisted" *Held* functional since the application does not disclose a permanently twisted front cover member but one which may be twisted in wearing.
2. SAME—SAME.
   Claims for a brassière *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. W. Lee Helms and *Mr. C. Russell Riordan* for Tabb.

Mr. T. A. Hostetler for the Commissioner of Patents.

GRAHAM, *P. J.:*

The appellant, Elizabeth Minor Tabb, filed her application for a patent on improvements in brassières, Serial No. 67,161, on November 5, 1925. Six claims were filed, of which three, 1, 5 and 6 were allowed, and 2, 3, and 4 were rejected by the Examiner and by the Board of Appeals. The claims were rejected on patent reference to Yurka, No. 1,431,206, dated October 10, 1922, and a British patent to Barbu, No. 139,725, dated August 23, 1919.

The claims disallowed are as follows:

2. In women's apparel a front cover member for the bust, twisted as by rotation of the ends thereof with respect to each other 180 degrees about a line joining mid portions of said ends.

3. In a garment comprising a member to cover and confine the bust of the wearer, an operative formation of said member, said formation comprising a twist of said member in a front central portion thereof, with a narrowing of said member by said twist adjacent thereto, and a tightening of the edges of said member by said twist and a cupping of said member by said twist to the right and the left of the same; said twist comprising a warping of the surface of said portion as by rotation of the ends thereof with respect to each other about a line substantially central of the width thereof, with a plurality of folds of said surface crossing each other in double fan formation.

4. In women's apparel a closed band to encircle the body of the wearer supporting the bust, said band having in opened and developed formation an obverse face and a reverse face and two opposite longitudinal edges, said closed band being formed from said developed band by joining the ends of said developed band in inverted relation, said obverse face at one end thereof being placed in correspondence with said reverse face at the other end thereof, with one of said edges adjacent one of said ends forming a continuation of the other of said edges adjacent the other of said ends; said joining thus providing a twist in a portion of said closed band.

Applicant's brassière is described and shown in her drawings, in several variations, substantially as follows: An oblong strip of cloth, of equal width throughout its length, of proper size to form a sufficient covering and support for the breasts, is attached at each end to strips of material by gathered seams. These strips of material are designated in the drawings as 8 and 10. To the end of the strip 10 is attached an elastic strip, having on its outer end hooks. On the outer end of the strip 6 are eyes. The hooks and eyes are so arranged that they will only fasten properly when the brassière is twisted 180 degrees. In some forms of the pictured brassière, shoulder straps are added which are attached at opposite sides of the central strip of material constituting the brassière proper, so that when the strip is twisted in wearing, the shoulder straps will both be above the brassière.

The allowed claims fully cover the feature of the shoulder straps being attached on opposite sides, and the hooks and eyes being arranged in such a manner as to be only usable when the brassière is twisted.

[1] Considering rejected claim 2 of appellant's application, which is not a process claim, but a claim for a device, it will be observed that the only device expressly described is "a front cover member for the bust, twisted." However, appellant does not show a permanently twisted front cover member, but one which may be twisted in wearing. The feature of the claim relative to the method of wearing is, in our opinion, an attempt to patent a function of the device, and was, therefore, porperly rejected, *Corning* v. *Burden*, 15 How. 252, 268; *In re Weston*, 17 App. D. C. 431; 940 O. G. 1786; *In re Cunningham*, 21 App. D. C. 29; 102 O. G. 824. To illustrate, an applicant might obtain a patent for a necktie, permanently tied in a certain manner; this, however, would not justify the granting of a patent on every method by which a tie of ordinary variety might be tied by the wearer.

[2] Claim 3 is subject to the same objection. It simply describes the method in which the brassière is to be worn. The features which give it a distinctive character, if at all, are not relied upon and described in this claim. Even if the method in which the brassière is to be worn were sufficient to make this claim patentable, it would be clearly anticipated by the Yurka reference. Yurka shows an oblong strip of material, made of thin sheet rubber, having tapes for attachment at each corner thereof. No reason is apparent why this strip may not be twisted, and, as thus twisted, be tied by the tapes and worn as appellant's brassière is to be worn. The fact that Yurka uses rubber does not establish a distinction. The applicant here also includes the use of such material.

When claim 4 is carefully considered, it will be found nothing further is disclosed than is disclosed in claims 2 and 3. We are therefore of opinion that the decision of the Board of Appeals should be and it is hereby affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE ROHLFS

No. 2,351. Decided May 28, 1930

[40 F.(2d) 753]

PATENTABILITY—ELECTRICAL AERIAL SIGN.
A claim for an electrical aerial sign consisting of neon tubes mounted on the underside of the lower wings of an aeroplane *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. C. B. Des Jardins for Rohlfs.

Mr. T. A. Hostetler for the Commissioner of Patents.

BLAND, *J.:*

The subject matter of this appeal is an electrical aerial advertising sign. The United States Patent Office allowed certain of appellant's claims and rejected claims 4 and 7, from which action appeal has been taken to this court and here claim 7 was abandoned, which leaves before this court claim 4, only, which reads as follows:

4. The combination with a power driven aeroplane, of an electrical aerial sign or the like comprising one or more luminous tube lights, each consisting of a single length of translucent tubing shaped to conform either in whole or in part to the outline of the letter or other character desired to be shown, means for fastening said tube lights to the aeroplane, and an electrical generator mounted on said aeroplane and electrically connected with said light or lights, for generating sufficient current to operate it or them.

Applicant proposes, by the specifications of his application for patent, to mount on the under surface of the lower wings of an aeroplane an electrically illuminated sign made up of luminescent tubes, shaped to the outline of the letter or character to be shown, and supplied with operating current by a generator mounted on the aeroplane. The luminous tubes which he uses are the well-known neon type such as described in the Claude Neon patents, referred to by patent numbers in applicant's specifications.

The object of this invention is to display an illuminated sign, at night, above cities and thickly populated centers.

The Board of Appeals rejected the claims before it upon the following references: Mitchell et al., 1,474,682, Nov. 20, 1923; Fargo, 1,041,988, Oct. 22, 1912; Bohm, 524,752, Aug. 21, 1894; Sperry, 1,362,753, Dec. 21, 1920.

The patent to Bohm shows a sign consisting of a glass tube or tubes bent or curved to the desired shape so as to form a letter, figure, word, design, or other part of an advertisement or decorative device, and so connected and mounted as to admit of the practical application to advertising. The tube is illuminated by passing electric current therethrough.

The patent to Fargo shows a railroad signal in which illuminating means are provided for outlining the arm. The means consists of a tube which follows the outline of the arm and is attached thereto. The illuminating means disclosed is a Moore vacuum tube light in which the rarefied gas in the tube acts as a conductor of electric current.

Sperry discloses a wind-driven electrical generator for aircraft in which the generator is driven by propeller blades.

Mitchell, who will be referred to more particularly hereinafter, discloses an advertising sign on the underside of aeroplane wings. The lighting consists of a plurality of electric bulbs receiving their current from a storage battery carried by the aircraft, the battery being supplied with current by means of an appropriate motor driven generator.

The Board of Appeals held that the appealed claims called for no more than the combination of the disclosures in the references and that substituting one element of the combination for another, in the manner in which appellant did, did not constitute invention.

Appellant insists with great earnestness that he is entitled to the allowance of claim 4, which embodies the combination of old elements only, because he has reduced aeroplane night advertising to a success when prior to his entering the field, it had been a complete and abandoned failure. He characterizes the reference Mitchell, which is the reference with which we are chiefly concerned, as "a failure, inoperative and worthless." He admits the different elements of his combination, with the exception of those for which claims were allowed, to be old in the art. He shows, and we think convincingly, by affidavits and argument, that the Mitchell patent was of little value as a commercial enterprise, and that the same, after repeated trials at great expense, had been abandoned. He points out that in the Mitchell patent signs are fastened to the undersurface of the aeroplane wings by means of a series of hangers and slotted angle bars; that certain metal channels are adjustably fastened to the angle bars and are shaped to conform to the particular character of the sign; that within these channels bars is mounted a series of incandescent electric lamps connected by elaborate wiring to a heavy storage battery which supplies illuminating current; that the channels serve as reflectors; that the advertising device is cumbersome in character and more than twice the thickness of the aeroplane wing supporting it; that it projects in front of the wing and in the rear of same, interfering with the air currents necessary for the efficient and safe flying of the plane; that after repeated experiments the weight of the electrical apparatus could not be reduced to less than 500 pounds; that it was difficult to get the aeroplane, so loaded, off the ground; that high flying

was not possible, if the advertising was to be read; that low flying was dangerous and eventually regarded as impracticable; that the vibrations of the machine broke the incandescent lamp filaments and that the battery did not afford enough current to last for a display of longer than fifteen minutes; that various noted aviators by affidavits (in the record) pronounced it a failure as a commercial enterprise and to be dangerous and impracticable of operation.

Appellant argues from these premises that Mitchell's device is inoperative and that an inoperative structure is an improper reference.

It is admitted that Mitchell's device did operate; that the electric light globes in the Mitchell combination outlined the sign which the public saw during the course of the flight; that the plane could and did fly, carrying and displaying the advertising matter, although it could not fly or display the sign for very long periods of time and was cumbersome, dangerous and expensive of operation. Nevertheless, it operated, and was a disclosure of a mechanism for performing the result, though in a more unsatisfactory manner, obtained by appellant.

The Patent Office concluded, and we think properly so, that the combination of old elements as proposed by applicant did not constitute patentable invention; that no new result was obtained, but that a more efficiently operating and commercially valuable mechanism was developed by applicant, requiring no more than mechanical skill.

The decision of the Board of Appeals is affirmed.
Affirmed.

U. S. Court of Customs and Patent Appeals

BUCHANAN *v.* BURRAGE, JR.

No. 2,359. Decided May 28, 1930

[41 F.(2d) 98]

INTERFERENCE—PRIORITY—RIGHT TO MAKE THE CLAIMS.

Record reviewed and *Held* to establish that the application of appellee discloses the invention in issue and that priority was properly awarded to him.

APPEAL from the Patent Office. Affirmed.

Mr. H. C. Bierman for Buchanan.

Mr. Odin Roberts for Burrage.

BLAND, *J.:*

Appellant has appealed from the decision of the Board of Appeals awarding priority to the party Burrage upon the following counts in interference:

1. A rubber accelerator comprising a mixture of diphenylguanidine and ditolylguanidine.
2. A rubber accelerator comprising a mixture of diphenylguanidine and ditolylguanidine, the melting point of said mixture being lower than the melting point of the major constituent.
3. A rubber accelerator comprising a mixture of diphenylguanidine and ditolylguanidine, the melting point of said mixture being lower than the melting point of either constituent.
4. A rubber accelerator comprising a mixture of diphenylguanidine and ditolylguanidine, and having an accelerating value approximately equal to that of ditolylguanidine.

Buchanan filed application for a patent on a rubber accelerator and method of making the same and after due proceedings obtained a patent, No. 1,593,385, on July 20, 1926. Later the Primary Examiner suggested that an interference should be declared on the subject matter of claim 1. The Burrage application had been on file in the Patent Office prior to the filing of the application of Buchanan. Burrage copied four claims of the Buchanan patent and interference was declared thereon. Buchanan moved to dissolve on the theory that Burrage could not make the claims. The Law Examiner denied the motion. His view was sustained by the Examiner of Interferences and by the Board of Appeals.

The invention in issue, as disclosed in the Buchanan patent, consists of a mixture of two compounds, namely, DPG and DOTG, both of which had been known and used as rubber accelerators. Buchanan claims to have discovered first that mixtures of these two substances in various proportions are mutually soluble; second, that the melting points of these mixtures differ materially from the melting points of the individual constituents; third, that a eutectic mixture containing approximately equimolecular parts of the two substances had a relatively low melting point, much lower than the melting points of either of the two constituents; fourth, that these mixtures have high accelerating values and particularly the eutectic mixture which has an activity equal to that of DOTG.

The object of the claimed invention is to enable the rubber manufacturer to use with good results larger quantities of the cheaper accelerator and thus reduce manufacturing costs.

Appellee filed no brief and made no appearance in this court.

In the decision of the Board of Appeals is found an apt statement of the case, and we can do no better than to copy it:

> Count 1 is identical with claim 16 of Burrage which is one of his original claims and it is obvious, therefore, that he can make this claim.
>
> Count 2 specifies that the mixture has a melting point lower than that of the major constituent. In the Burrage application on page 4, lines 4–10, the proportions of the mixture, which appear to apply generally to all the described ingredients, were stated as two parts of the slower and less expensive constituent and one part of the more active and more expensive one. Applying these proportions to the specific substances of the claims, this would mean 33⅓% of diphenylguanidine and 66⅔% of ditolylguanidine. If the ditolylguanidine is the major constituent, count 2 would, according to the diagram in the drawing of Buchanan's patent, cover all mixtures of the specified substances and if the diphenylguanidine is the major constituent, then the conditions are satisfied by all mixtures in which such substance exceeds 30%. Under either condition, the mixture of the Burrage application satisfies count 2.
>
> Count 3 specifies that the melting point of the mixture is lower than the melting point of either constituent. The Law Examiner appears to have considered the word "either" as ambiguous but we think the plain meaning of the claim is that the melting point of the mixture is lower than that of any one of its ingredients. Reading the Burrage mixture on the diagram we find that the 33⅓% to 66⅔% mixture would have a melting point of between 130°–140° which is less than that of either of the elements and Burrage can therefore make this claim.
>
> Count 4 specifies that the accelerating value of the mixture is approximately that of ditolylguanidine. According to Buchanan this is the case when the mixture is "eutetic" or one in which the melting point is the lowest attainable in such mixtures.
>
> The specification of Buchanan specifies that the eutectic mixture corresponds to a mixture of equimolecular proportions of the two constituents and claim 6 of his patent covers such a mixture. There is nothing in the patent to indicate the range covered by the word "approximately" in count 4 but this count is clearly intended to include more than claim 6. The Burrage proportions of 33⅓% to 66⅔% appear to near enough to the eutectic mixture, whose proportions are about 46⅔% to 54⅓%, to be covered by the language of this count.
>
> In his brief Buchanan contents that Burrage had altogether a different problem in mind and had no conception of the characteristics which Burrage stresses as important. This is not altogether true for the Burrage application sets forth on page 3, lines 21–31 the fact that the mixture will act at a lower temperature than the higher component, and on page 4, line 23–page 5, line 4, that proper combinations may be obtained whereby almost any reasonable speed of action without burning or discoloration, may be secured. His specification also refers to the fact that the mixture is cheaper than that of the higher priced ingredients.
>
> We are satisfied that all the counts are supported by the Burrage disclosure and the decision of the Examiner of Interferences awarding priority of invention to Albert S. Burrage, jr., the senior party, is affirmed.

We agree with the conclusion reached by the Board of Appeals and the reasons assigned therefor, and its decision is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

MARTUS AND BECKER *v.* HEISE

No. 2,275. Decided April 14, 1930

[39 F.(2d) 715]

INTERFERENCE—PRIORITY.

Evidence reviewed and *Held* to establish that H. was the first to conceive the invention and was not lacking in diligence in reducing it to practice at the time M. and B. entered the field and subsequently thereto and priority properly awarded to H.

APPEAL from the Patent Office. Affirmed.

Mr. Alfred M. Houghton for Martus and Becker.

Mr. Charles H. Potter and *Mr. W. J. Willis* for Heise.

HATFIELD, *J.:*

This is an appeal in an interference proceeding from the decision of the Board of Appeals affirming the decision of the Examiner of Interferences awarding priority of invention to appellee, George W. Heise.

The invention in issue relates to the addition of zeolitic agents—one of which is "permutit"—to the electrolyte in a caustic alkali electric cell for the purpose of increasing electrolyte efficiency.

The counts in issue read as follows:

1. An electric cell of the copper oxid type having positive electrode and negative electrodes and a liquid caustic alkali electrolyte, said cell also containing zeolite material in contact with said liquid.
2. An electric cell of the copper oxid type having positive and negative electrodes and a liquid caustic alkali electrolyte, said cell also containing in contact with said liquid a zeolite of the water purifying type containing reactive alumina and reactive silica.
3. An electric cell of the copper oxid type having a positive electrode, a negative electrode, and a liquid caustic alkali electrolyte, said cell also containing in contact with said liquid a solid material containing silica in reactive hydrated form.
4. An electric cell of the copper oxid type having a positive electrode, a negative electrode and a liquid caustic alkali electrolyte, said cell also containing in contact with said liquid a solid material containing alumina in hydrated reactive form.
5. An electric cell of the copper oxid type having a positive electrode, a negative electrode, and a liquid caustic alkali electrolyte, said cell also containing silica in reactive hydrated form and alumina in hydrated reactive form, said silica and said alumina existing in the form of a zeolite.

The application of appellants, Martus and Becker, filed February 13, 1925, matured into patent—No. 1,581,851—on April 20, 1926.

Appellee's application, filed May 15, 1925, was pending at the time the patent to appellants was issued. Appellee is the junior party and has the burden of proving priority of invention by a preponderance of the evidence.

Considerable evidence was submitted by appellee. Appellants submitted no evidence and are, restricted, therefore, to their filing date.

Each of the Patent Office tribunals has exhaustively considered the issues in rather elaborately-prepared opinions. They concurred in holding that appellee was the first to conceive the invention; that he had not reduced the invention to practice prior to his filing date—May 15, 1925; and that, as he was not lacking in diligence immediately prior to or after the time appellants entered the field, he was entitled to an award of priority.

It is contended by counsel for appellants that the Board of Appeals erred in holding that appellee conceived and disclosed the invention prior to appellants' filing date—February 13, 1925, and that the record discloses that appellee had no conception of the invention prior to appellants' filing date. It is further contended that, if appellee conceived and disclosed the invention at any time in the year 1924, as claimed, he was clearly lacking in diligence and, therefore, is not entitled to an award of priority.

It appears from the record that appellee is a chemist in the employ of The National Carbon Company; that, in the spring and summer of the year 1924, appellee and his assistants were engaged in experimental work, the object of which was to increase electrolytic efficiency; that permutit was used, according to one witness, to "remove zinc from the solution," and, according to another, to reduce zinc concentration; that it was also added to "copper solutions to reduce the copper"; and that the invention in issue was disclosed to several witnesses as early as May, 1924. Experiments and tests were made from May to October, 1924. In view of the fact that these experiments have been discussed at considerable length by the Examiner of Interferences, we deem it unnecessary to describe them here. It is sufficient to say that we are in accord with the decisions of the Patent Office tribunals holding that appellee has established conception and disclosure of the invention as early as the summer of 1924.

With reference to appellants' contention that appellee had no conception of the invention prior to the filing date of appellants' application, the Board of Appeals said:

> • • • Several of these alleged errors relate to the theories of the parties to the interference as to the function performed by the zeolite material in the electrolyte. Martus and Becker have one theory, Heise has a different theory, but there is nothing in the counts about the function performed or the result secured by the use of the zeolite material. So far as we can discover there is no testimony in the record which establishes that Heise's theory as to the purpose of the zeolite material is incorrect. Moreover, under the law as we understand it Heise is entitled to the date of disclosure of the use of the zeolite material for conception even though his theory as to the purpose of the material was incorrect. On the straight question of conception and disclosure we are in accord with the Examiner of Interferences that Heise has proven a conception and disclosure prior to the rate to which Martus and Becker are restricted. We base our conclusion on the testimony of Heise corroborated by Pflug and Schumacher as pointed out on pages 2 and 3 of the decision of the Examiner of Interferences. Although the decision did not accord to Heise any specific date for conception and disclosure if it were necessary we would have no hesitancy in holding that Heise has proven conception and disclosure in the summer or fall of the year 1924. Holding as we do that Heise has proven conception and disclosure prior to the filing date of Martus and Becker no reason is seen for a finding that Heise should be restricted to his filing date for the activities in question. The disclosure in the testimony is as complete as is the disclosure in the application.

Due to the views we hold, it will be unnecessary for us to discuss the question of whether appellee

is entitled to a finding that he reduced the invention to practice prior to the filing of his application. On October 29, 1924, appellee prepared and signed a patent memorandum describing the invention. It was received by the witness, Scheffler, (who, at that time, was in charge of the patent department of the Union Carbide and Carbon Research Laboratories) on November 6, 1924, from his superior, Mr. Townsend, with the recommendation that an application for patent be prepared and filed, if an "investigation disclosed substantial patentable subject-matter." Due to the accumulation of business requiring attention and for other proper reasons set forth in the decisions below, and which need not be mentioned here, counsel was delayed in giving consideration to appellee's application for patent until March 17, 1925. Approximately two months thereafter it was filed in the Patent Office.

There is no evidence of any activity on the part of appellants until February 13, 1925, when their application was filed. Accordingly, in order to prevail, it must appear that appellee was reasonably diligent from immediately prior to February 13, 1925, until May 15, 1925, a period of only about three months. During all of this time appellee's patent memorandum was in the possession of his assignee's attorneys; and from March 17, 1925, until the application was filed, counsel for the assignee were active in its preparation.

The question of diligence is one of fact, and must be determined in each case in the light of the prevailing conditions and circumstances. There are no facts of record to indicate that appellee, as counsel for appellants argue, was deliberately inactive.

Due entirely to the delay occasioned by the unfortunate conditions prevailing in the office of the patent department of his assignee (which, in our opinion, have been satisfactorily explained), the filing of appellee's application was delayed for about three months after appellants entered the field. There is not the slightest evidence that appellee concealed or abandoned the invention, as suggested by counsel for appellants. See *Olson* v. *Pospeshil*, 50 App. D. C. 182, 269 Fed. 698, 283 O. G. 365.

In our opinion, the tribunals of the Patent Office were clearly right in awarding priority of invention to appellee, and the decision of the Board of Appeals is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

PIERSON *v.* BECK

No. 2,340. Decided May 28, 1930

[40 F.(2d) 769]

1. INTERFERENCE — PRIORITY — RIGHT TO MAKE THE CLAIMS.
   Record reviewed and *Held* to establish that the disclosure of B supports the counts of the issue.
2. SAME—PRIORITY—REDUCTION TO PRACTICE.
   Evidence reviewed and *Held* to establish that B, who was the first to conceive the invention, was also the first to reduce it to practice, and that priority was properly awarded to him.

APPEAL from the Patent Office. Affirmed.

Messrs. Eakin & Avery, Mr. Parker Dodge, Mr. W. D. Eakin, and *Mr. W. F. Avery* for Pierson.

Messrs. Whittemore, Hulbert, Whittemore & Belknap, and *Mr. Clarence B. Zewadski* for Beck.

HATFIELD, *J.:*

This is an appeal in an interference proceeding from the decision of the Board of Appeals reversing the decision of the Examiner of Interferences awarding priority of invention to appellant, Robert M. Pierson.

The invention relates to a door-check specially adapted for use on automobile doors. It is sufficiently described in the count of the issue, which reads:

> The combination with a swinging door and its frame of a flexible, resilient link connecting said door and frame and adapted to attain a condition of initial strain when the door has reached a relatively-wide opening, said link being essentiallly composed of vulcanized soft rubber compound.

Appellant, the senior party, filed his application for a patent on August 2, 1923.

Appellee filed his application on March 3, 1924.

Appellant moved to dissolve the interference on the ground that appellee could not make the claim in issue. The motion was denied by the Law Examiner.

In his preliminary statement, appellee alleged that he conceived the invention on or about December 5, 1921; that on or about December 6, 1921, he made and attached the device in issue to an automobile and successfully operated it; that he disclosed the invention to others on or about December 10, 1921; and that on or about March 1, 1922, he made drawings of the invention and a mold for the device, and immediately thereafter manufactured and successfully operated many of the involved devices.

As appellant submitted no evidence, he is restricted to his filing date—August 2, 1923—for conception and constructive reduction to practice.

Appellee submitted considerable evidence in an effort to establish conception and actual reduction to practice prior to appellant's filing date.

The Examiner of Interferences held that Beck's disclosure supported the count in issue. However, he awarded priority of invention to Pierson on the ground that, although Beck had established prior conception, he had failed to show an actual reduction to practice and was lacking in diligence from August 2, 1923, Pierson's filing date, to March 8, 1924, when his application was filed.

On appeal by Beck, the Board of Appeals sustained the Examiner of Interferences with respect to his holding that Beck's disclosure supported the count in issue, and that he was the first to conceive the invention. However, it held that the evidence submitted by Beck was sufficient to establish that he had reduced the invention to practice long prior to Pierson's filing date, and that, therefore, he was entitled to an award of priority.

It is contended by appellant that the tribunals below were in error in holding that appellee's disclosure supported the count in issue. In support of this contention it is argued by counsel for appellant that appellee's application does not disclose a door-check "adapted to attain a condition of initial strain when the door has reached a relatively-wide opening," as provided in the count in issue, but, on the contrary,

> what he shows and describes is *consistent with the supposition* that he intended to portray that species of door-check *which is put under initial strain from the beginning of the door-opening movement and acts throughout that movement,* instead of during only a portion thereof, to impose a yielding resistance to the opening of the door. (Italics ours.)

It is further argued that Exhibit No. 1, introduced in evidence by appellee, consisting of a molded-rubber door-check with metal brackets at the ends for attaching it to the door and frame of an automobile, "is not in itself an embodiment of the issue."

In appellee's specification it is said:

> This invention relates to door checks such as are used for limiting the opening of doors of motor vehicles and consists of certain novel features of construction and combination of parts as hereinafter set forth.
>
> * * * * * * *
>
> For checking the outward swinging movement of the door,
>
> * * * * * * *
>
> From the foregoing description it will be readily apparent that I have provided a strong and durable and yet simple and inexpensive device that may be easily and quickly installed for yieldably and gradually checking the movement of doors, gates, windows and the like so that the ordinary shocks and jars due to the sudden checking of such elements is obviated entirely

We agree with the views of the tribunals below, as expressed by the Board of Appeals, that "There is nothing in the description to warrant the holding that Beck's strap is a door closer and [designed] for the purpose of closing the door or keeping the door closed."; and that Beck's disclosure supports the count in issue.

Each of the tribunals of the Patent Office has exhaustively considered the evidence in the record, much of it being set out in the decisions. Accordingly, we deem it unnecessary to set it out here, or to discuss it at length. With regard to the question of whether appellee, Beck, reduced the invention to practice prior to his filing date, the Examiner of Interferences and the Board of Appeals have reached different conclusions.

The record clearly supports the conclusion that Beck was the first to conceive the invention.

Furthermore, it appears from the record that Exhibit No. 1 and other door-checks like it were successfully used by appellee on various automobiles from the latter part of the year 1921 to a date later than June, 1923.

[2] In concluding its decision, the Board of Appeals has concisely stated our views of the evidence with regard to the question of Beck's reduction to practice prior to the filing date of appellant's application. We quote:

> We are unable to agree with the Examiner of Interferences that the tests of the hand-made door check and the molded check, Exhibit 1, were not sufficiently satisfactory to constitute a reduction to practice. Exhibit 1 was submitted to extensive tests on several cars. It embodies the issue and it appears to have stood up well. The Examiner of Interferences held that Beck's conduct in attempting to improve the device of Exhibit 1 shows he was not satisfied with it. Even so, this does not necessarily negative reduction to practice. To constitute a reduction to practice it is not necessary that the device be perfect or a commercial success. In most every art the pioneer invention is a crude affair which, while operative with sufficient success to constitute a reduction to practice, is capable of infinite improvement.
>
> In view of this conclusion that Beck had an actual reduction to practice prior to Pierson's filing date, it is unnecessary to consider whether Beck was diligent at the time of Pierson's filing date and subsequently thereto.

For the reasons stated, the decision is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

908,125, F. C. Overbury, Method of making shingle strips and blanks therefor; 1,410,018, O. P. Kiracofe, Roofing machine, appeal filed April 14, 1930, C. C. A., 3d Cir., Doc. 4404, *The Flintkote Co.* v. *National Asbestos Mfg. Co.*

1,018,502, Just and Hanaman, Incandescent body for electric lamp; 1,082,933, W. D. Coolidge, Tungsten and method of making same for use as filaments of incandescent electric lamps; 1,180,159, I. Langmuir, Incandescent electric lamp; 1,423,956, Mitchell and White, Tipless incandescent lamp; 1,423,957, same, Stem-making machine, appeal filed July 14, 1928, C. C. A., 3d Cir., Doc. 3923, *Desmond Incandescent Lamp Co. et al.* v. *General Electric Co.*

1,072,688. (See 1,204,207.) 1,082,933. (See 1,018,502.)

1,094,785 (*a*), F. H. Green, Milk-tank washer and sterilizer; 1,249,129, Lathrop and Paulson, Milk-can-washing machine; 1,255,896, same, Can-washing machine; 1,525,304, same, Solution process; 1,653,219, H. D. Lathrop, Rotary can washer, filed Aug. 4, 1930, D. C., W. D. N. Y., Doc. 331, *H. D. Lathrop* v. *Oakes & Burger Co., Inc.*

1,094,785 (*b*), F. H. Green, Milk-tank washer and sterilizer; 1,249,129, Lathrop and Paulson, Milk-can-washing machine; 1,249,130, same, Feeding mechanism for can-washing machine; 1,255,896, same, Can-washing machine; 1,653,219, H. D. Lathrop, Rotary can washer, filed Aug. 4, 1930, D. C., E. D. Wis. (Milwaukee), Doc. 2962, *H. D. Lathrop* v. *Hauk Mfg. Co. et al.*

1,164,720, P. E. Hotchkin, Stand-lamp reflector, filed Aug. 18, 1930, D. C., E. D. Wis. (Milwaukee), Doc. 2982, *Curtis Lighting, Inc., et al.* v. *Hilam, Inc.*

1,173,747. (See 1,271,426.) 1,178,750. (See 1,271,426.)

1,180,159. (See 1,018,502.) 1,202,688. (See 1,204,207.)

1,204,207, R. P. Thorne, Guards for lanterns; 1,202,688, E. C. Everett, Tubes for tubular lanterns; 1,072,688, C. Bergener, Tubular lantern, filed Aug. 12, 1930, D. C., S. D. N. Y., Doc. E 54/865, *R. E. Dietz Co.* v. *A. Hurst & Co., Inc.*

1,206,783. (See 1,275,654.) 1,209,544. (See 1,268,843.)

1,235,819, J. Huether, Taping machine, appeal filed Aug. 15, 1930, C. C. A., 2d Cir., Doc. —, *Corrugating Machinery Corp. et al.* v. *Empire Corrugated Container Corp*

1,249,129. (See 1,094,785 (*a*) and (*b*).)

1,249,130. (See 1,094,785 (*b*).)

1,255,896. (See 1,094,785 (*a*) and (*b*).)

1,268,843, G. C. Bohn, Refrigerator door; 1,329,453, same, Refrigerator closure; and 1,209,544, T. P. Bolger, Refrigerator construction, included by counter-claim April 17, 1929, in suit filed April 5, 1928, D. C. Minn., 3d Div., Doc. E 1121, *Bohn Refrigerator Co. et al.* v. *Seeger Refrigerator Co.* Claims 1 and 2 of 1,209,544 held valid but not infringed; suit dismissed for want of equity (notice Aug. 12, 1930).

1,271,426, B. Buehler, Beating engine; 1,173,747, C. W. Shartle, Pulp-reducing apparatus; 1,178,750, same, Process for reducing pulp; 1,415,902, 1,488,218, same, Apparatus for making pulp used in the manufacture of paper; 1,503,188, same, Process of producing paper pulp and apparatus therefor, filed Aug. 16, 1930, D. C., E. D. Mich., S. Div., Doc. 4344, *The Black-Clawson Co.* v. *Consolidated Paper Co.*

1,275,654, H. H. Boyce, Indicating means for motor-propelled vehicles; 1,206,783, same, Temperature-indicating system and apparatus for internal-combustion engine, C. C. A., 2d Cir., Doc. 10929, *Leander Development Corp. et al.* v. *Taft-Buick Corp.* Decree modified (notice Aug. 2, 1930).

1,292,081, 1,294,176, J. Sachs, Electric switch; 1,301,175, same, Electric service and meter-testing system, appeal filed Aug. 12, 1930, C. C. A., 2d Cir., Doc. —, *J. Sachs et al.* v. *Hartford Electric Supply Co. et al.*

1,294,176. (See 1,292,081.)

1,296,588, 1,296,590, J. H. Bamberg, Metal mold; 1,296,589, same, Casting and process of making same; 1,296,591, same, Piston casting; 1,296,594, A. B. Norton, Mold; 1,296,595, same, Process of making castings; 1,679,870, Norton and Guyot, Method of and mold for making castings, filed Aug. 8, 1930, D. C., S. D. Calif. (Los Angeles), Doc. C–116–M, *Aluminum Co. of America* v. *United Engine & Machine Co.*

1,296,589. (See 1,296,588.) 1,296,590. (See 1,296,588.)

1,296,591. (See 1,296,588.) 1,296,594. (See 1,296,588.)

1,296,595. (See 1,296,588.) 1,301,175. (See 1,292,081.)

1,329,453. (See 1,263,843.) 1,336,640. (See 1,648,559.)

1,350,605. (See 1,374,446.)

1,360,256, 1,528,178, E. Anderson, Can opener, filed June 21, 1929, D. C., N. D. Ill., E. Div., Doc. 9171, *Star Can Opener Co.* v. *Quadriga Mfg. Co.* Doc. 9172, *Star Can Opener Co.* v. *S. W. Armstrong.*

1,374,446, 1,374,500, W. E. Greenawalt, Apparatus for treating liquids with gases; 1,350,605, same, Flotation apparatus, filed May 28, 1930, D. C. Colo. (Denver), Doc. 9255, *W. E. Greenawalt* v. *Stearns-Rogers Co.*

1,374,500. (See 1,374,446.)

1,379,224, O. P. Smith, Dog-racing amusement; 1,507,439, same, Starting cage for racing dogs; 1,507,440, same, Housing for conveyer cars and tracks, D. C., E. D. Ill., (East St. Louis), Doc. 4166, *H. M. Smith* v. *Mississippi Valley Kennel Club et al.* Appeal allowed Aug. 6, 1930.

1,388,434, G. V. Johnston, Method of and apparatus for butt-welding thin-gauge tubing and the product thereby produced; 1,435,306, same, Butt-welded thin-walled tubing, filed Jan. 4, 1929, D. C., N. D. Ill., E. Div., Doc. 8891, *Steel & Tubes, Inc.*, v. *American Electric Fusion Corp. et al.*

1,410,018. (See 908,125.) 1,415,902. (See 1,271,426.)

1,423,956. (See 1,018,502.) 1,423,957. (See 1,018,502.)

1,435,306. (See 1,388,434.)

1,480,449, W. G. Kendall, Lip-stick holder, filed Aug. 19, 1930, D. C., S. D. N. Y., Doc. E 55/40, *Parfumerie Rigaud, Inc.*, v. *Majestic Metal Specialties, Inc.*

1,488,218. (See 1,271,426.) 1,503,138. (See 1,271,426.)

1,507,439. (See 1,379,224.) 1,507,440. (See 1,379,224.)

1,517,059, F. Grover, Machine for automatically-folding wrapper around rectangular and other bodies, filed Aug. 19, 1930, D. C., S. D. N. Y., Doc. E 55/28, *Forgrove Machinery Co., Ltd.*, v. *White Star Import Corp.*

1,525,304. (See 1,094,785 (a).) 1,528,178. (See 1,360,256.)

1,529,181, H. S. Holmes, Self-lighting cigar or cigarette, filed Aug. 7, 1930, D. C., N. D. Calif. (San Francisco), Doc. E 2668–S, *H. S. Holmes* v. *S. Benaderet, Inc., et al.*

1,537,944, R. Hufford, Governor for internal-combustion motors; 1,670,365, Knauss and Adler, same; 1,563,378, 1,670,364, E. Knauss, same; 1,670,357, Hufford and Adler, same; 1,584,931, 1,584,933, Handy and Bull, Governor, filed Aug. 5, 1930, D. C., E. D. Mich., S. Div., Doc. 4323, *Handy Governor Corp.* v. *Monarch Governor Co.*

1,547,529, W. P. Stanton, Concrete mold; 1,547,530, same, Method and apparatus for manufacturing hollow concrete building blocks, filed July 26, 1930, D. C., S. D. Calif., C. Div., Doc. R–111–C, *National Stone-Tile Corp.* v. *Marbelite Corp. of America.*

1,547,530. (See 1,547,529.) 1,563,378. (See 1,537,944.)

1,584,931. (See 1,537,944.) 1,584,933. (See 1,537,944.)

1,632,208, Watson and Culver, Lense, filed Aug. 16, 1930, D. C., S. D. Ohio, W. Div., Doc. E 699, *United Kingdom Optical Co., Ltd., et al.* v. *W. N. Bennedict Co.* Doc. E 700, *United Kingdom Optical Co., Ltd., et al.* v. *W. G. Trenz (Crescent Bifocal Co.).*

1,648,249, Winters and Crampton, Hinge, filed Aug. 16, 1930, D. C., W. D. Mich. (Grand Rapids), Doc. E 2372, *Winters & Crampton Mfg. Co.* v. *Grand Rapids Brass Co.*

1,648,559, G. A. Mitchell, Movement mechanism for cameras; 1,336,640, J. E. Leonard, Film magazine, filed Aug. 4, 1930, D. C. S. D. Calif., C. Div., Doc. R–120–C, *Mitchell Camera Corp.* v. *R. G. Fear et al.* (*Fearless Camera Co.*).

1,653,219. (See 1,094,785 (a) and (b).)

1,670,357. (See 1,537,944.) 1,670,364. (See 1,537,944.)

1,670,365. (See 1,537,944.) 1,679,870. (See 1,296,588.)

1,680,095, D. F. Domizi, Universal joint; 1,697,473, F. W. Peters, same, D. C., E. D. Mich., S. Div., Doc. 3700, *D. F. Domizi et al.* v. *General Motors Corp.* Discontinued Aug. 4, 1930.

1,681,009. (See Re. 15,683.) 1,697,473. (See 1,680,095.)

1,699,468, J. H. Grayson, Thermostat; Re. 17,544, A. Beier, Thermostatic valve, filed Aug. 1, 1930, D. C., S. D. Calif., C. Div., Doc. E R–117–M, *Grayson Heat Control, Inc.*, v. *E. R. Parker (Merit Welding Equipment Co.) et al.*

1,701,940, A. S. Alexander, Tire mirror; 1,719,821, same, Rear-view-mirror bracket, filed Aug. 15, 1930, D. C., S. D. N. Y., Doc. E 55/10, *McGrath Holding Corp.* v. *Yankee Metal Products Corp.*

1,719,821. (See 1,701,940.)

1,724,680, P. C. Ripley, Rosin core solder, filed Aug. 15, 1930, D. C., S. D. N. Y., Doc. E 55/12, *Kester Solder Co.* v. *Silva Wares Co., Inc., et al.*

Re. 15,683, P. W. Petersen, Method and apparatus for handling comestibles; 1,681,009, same, Process of refrigerating and preserving comestibles, filed Aug. 11, 1930, D. C. Mass., Doc. E 3316, *P. W. Petersen* v. *General Seafoods Corp.*

Re. 16,253, Fischer and Kristofek, Pencil, C. C. A., 8th Cir. (St. Louis), Doc. 8850, *Brown & Bigelow* v. *L. F. Dow Co.* Decree affirmed Aug. 14, 1930.

Re. 17,131, O. S. Caesar, Heating apparatus for automotive vehicles, appeal filed July 28, 1930, C. C. A., 8th Cir. (St. Louis), Doc. 8964, *United Motors Service, Inc.*, v. *Tropic-Aire, Inc.*

Re. 17,544. (See 1,699,468.)

Des. 76,009, A. Dloughy, Drapery-pole end; Des. 77,309, same, Drapery-pole center, filed July 11, 1929, D. C., N. D. Ill., E. Div., Doc. 9215, *H. L. Judd Co., Inc.*, v. *S. W. Hamilton Co.*

Des. 77,309. (See Des. 76,009.)

T. M. 77,932, Los Angeles Brewing Co., Beer; T. M. 249,593; same, Soft drinks, syrups, and extracts for preparing same; T. M. 254,671, same, Malt syrup and extract, filed Aug. 1, 1930, D. C., N. D. Calif. (San Francisco), Doc. E 2657–K, *Los Angeles Brewing Co.* v. *Distributing Co., Ltd., et al.*

T. M. 249,593. (See T. M. 77,932.)

T. M. 254,671. (See T. M. 77,932.)

Adjudicated Patents

(C. C. A. N. J.) Nelson patent, No. 1,377,023, for lubricating device, claim 2 *Held* valid and infringed. *Alemite Mfg. Corporation* v. *Rogers Products Co.*, 42 F. (2d) 648.

(D. C. N. Y.) Berlinger design patent, No. 70,209, for wedding ring, *Held* valid and infringed. *Berlinger* v. *Hoffman*, 42 F. (2d) 677; *Berlinger* v. *Busch Jewelry Co.*, 42 F. (2d) 678.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,549,003, W. K. Howe, Train control, decided September 25, 1930, claims 1, 4, 5, 6, 8, 9, 10, 13, 15, and 16.

Pat. 1,701,220, G. H. Willis, Process of producing colored composite materials, decided October 16, 1930, claims 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, and 17.

Pat. 1,754,772, H. A. Sallop, Fastener, decided October 11, 1930, claims 1 and 3.

TRADE-MARKS

OFFICIAL GAZETTE, NOVEMBER 4, 1930

[VOL. 400. No. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 294,393. JULIUS LOEWITH, INC., New York, N. Y. Filed Jan. 4, 1930.

FORGET ME NOT

GENUINE

POULTRY LITTER

Applicant disclaims the words "Genuine Poultry Litter" apart from the trade-mark shown in the drawing.

For Peat Moss.

Claims use since Dec. 1, 1929.

Ser. No. 301,448. INDIANA LIMESTONE COMPANY, Bedford, Ind., and New York, N. Y. Filed May 28, 1930.

ILCO HUNTER VALLEY BUFF

No claim being made to the exclusive use of the word "Buff" apart from the mark as shown in the drawing.

For Building Stone as it Comes from the Quarry.

Claims use since May, 1926.

Ser. No. 301,450. INDIANA LIMESTONE COMPANY, Bedford, Ind., and New York, N. Y. Filed May 28, 1930.

ILCO HUNTER VALLEY GRAY

No claim is made to the exclusive use of the word "Gray" apart from the mark as shown in the drawing.

For Building Stone as it Comes from the Quarry.

Claims use since May, 1926.

Ser. No. 301,975. J. J. MAYOU FOUNDRY SUPPLY CO., Chicago, Ill. Filed May 31, 1930.

REX

For Foundry Supplies—Namely, Bentonite, Core Compounds, Core Blacking, Mold Wash, Sea-Coal Facing, Partings, Plumbago, Fire Clay, Refined and Ground Silicas, and Refractories, Such as Fire Brick.

Claims use since February, 1921.

Ser. No. 302,536. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany. Filed June 18, 1930.

Cosavult

For Partly-Prepared Unvulcanized Natural and Synthetic Rubber Coagulates.

Claims use since Jan. 20, 1928.

Ser. No. 304,579. THE RESINOUS PRODUCTS & CHEMICAL COMPANY, Philadelphia, Pa. Filed Aug. 13, 1930.

PARAPLEX

For Viscous, Resinous, or Rubberlike Condensation Product or Solution Thereof Used in the Production of Nitrocellulose Lacquers, Plastics, and Other Types of Coatings.

Claims use since July 7, 1930.

Ser. No. 304,958. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany. Filed Aug. 23, 1930.

Agfa

For Raw and Partly-Prepared Artificial Textile Fibers and Imitation Horsehair.

Claims use since November, 1929.

Ser. No. 305,786. OCKLAWAHA NURSERIES, INC., Lake Jem, Fla. Filed Sept. 17, 1930. Under 10-year proviso.

PEDIGREED

For Citrus Trees—Namely, Seedless Orange, Early Improved Seedless Orange, Parson Brown Orange, Ruby Blood Orange, Valencia Late Orange, King Orange, Pineapple Orange, Satsuma Orange, Dancey Tangerine, Grapefruit, Prolific Grapefruit, Improved Prolific Grapefruit, Early Improved Prolific Grapefruit, anad Marsh Seedless Grapefruit.
Claims use since 1893.

Ser. No. 306,091. THE DEFORD COMPANY, Baltimore, Md. Filed Sept. 26, 1930.

DECOFLEX

For Leather.
Claims use since October, 1928.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 287,425. GEO. RASMUSSEN CO., Chicago, Ill. Filed July 20, 1929.

FORT DEARBORN

For Scouring Powder.
Claims use since 1914.

Ser. No. 301,366. D. STANLEY SEIBEL, doing business as M-De-S Laboratories, Kansas City, Mo. Filed May 27, 1930.

M-De-S

For Germicidal Soap.
Claims use since Jan. 15, 1930.

Ser. No. 302,650. GERMAIN H. STADELMAN, Jamaica, N. Y. Filed June 20, 1930.

AUKA

For Metal Polish.
Claims use since May 5, 1930.

Ser. No. 304,574. PERCIVAL SPECIALTY COMPANY, Foxboro, Mass. Filed Aug. 13, 1930.

NU-SILVER

In the drawing the horizontal lines indicate a blue color and the vertical lines indicate a red color. No claim is made to the exclusive use of the term "Nu-Silver" apart from the mark shown in the drawing.
For Preparation for Cleaning and Polishing Metal.
Claims use since June 2, 1930.

Ser. No. 304,652. DUREX ABRASIVES CORPORATION, Jersey City, N. J. Filed Aug. 15, 1930.

DUREXPAR

For Abrasives—Namely, Abrasive-Coated Cloth or Paper and Combinations of Abrasive Paper and Cloth.
Claims use since July 22, 1930.

Ser. No. 305,925. THE DAVIES-YOUNG SOAP COMPANY, Dayton, Ohio. Filed Sept. 22, 1930.

"GLUV-NU"

For Liquid Glove-Cleaning Soap.
Claims use since July 20, 1929.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 286,643. MAY DEPARTMENT STORES COMPANY, New York, N. Y. Filed July 5, 1929.

JOLIRA

For Toilet Preparations, Toilet Articles, and Cosmetics—Namely, Perfumery, Toilet Water, Face Powder, Dusting Powder, Talcum Powder; Face Cream—Namely, Vanishing, Nourishing, Being a Cream for Building Up the Pores, Cleansing Cream; Lip Stick, Rouge Compacts, Powder Compacts, Refill Sets of Compact Rouge, Refill Sets of Compact Powder.
Claim use since Mar. 27, 1929.

Ser. No. 289,606. TROPONWERKE DINKLAGE & CO., Cologne-Muelheim, Germany. Filed Sept. 10, 1929.

Calcipot

For General Tonic and Medicated Food.
Claims use since June 14, 1926.

CARNEGIE LIBRARY OF ATLANTA

Ser. No. 297,676. MICHAEL KNEILING, doing business as Kneiling Co., Tacoma, Wash. Filed Mar. 21, 1930.

GOODWELD WELDER'S FLUX

All wording apart from the mark as shown on the drawing is disclaimed. The portrait forming a feature of the mark is the portrait of the applicant.
For Welding, Brazing, and Soldering Fluxes.
Claims use since Nov. 1, 1929.

Ser. No. 297,781. RADIUM SALVE CORPORATION OF AMERICA, St. Louis, Mo. Filed Mar. 22, 1930.

Adium

For Salve Adapted for Penetrating, Soothing, Healing for Pimples, Chronic Ulcers, Eczema, Piles, Itch, Old Sores, Tetter, Ringworm, Sore Feet, Burns, Boils, Insect Bites, Sunburn, Psoriasis, Skin Diseases, and Sores of All Kinds.
Claims use since Apr. 1, 1929.

Ser. No. 298,705. KAY LABORATORIES, INC., West Haverstraw, N. Y., assignor to Kay-Fries Chemicals, Inc. Filed Apr. 11, 1930.

PENETHRUM

For Agricultural Insecticides.
Claims use since Dec. 14, 1929.

Ser. No. 299,018. JOSEPH B. ROSENTHAL, Cleveland, Ohio. Filed Apr. 17, 1930.

PEDISIN

For Foot Powder.
Claims use since Jan. 1, 1914.

Ser. No. 299,660. KAY LABORATORIES, INC., West Haverstraw, N. Y., assignor to Kay-Fries Chemicals, Inc. Filed Apr. 29, 1930.

ROTENOL

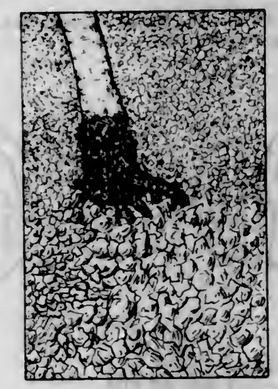
For Agricultural Insecticides.
Claims use since Apr. 4, 1930.

Ser. No. 300,420. KENMORE INC., Cincinnati, Ohio. Filed May 13, 1930.

Hangover

For Medicine for Light Headaches and Nervousness.
Claims use since Oct. 6, 1929.

Ser. No. 301,968. ANGELO MAGNONI, doing business as A. Magnoni & Company, Corona, N. Y. Filed May 31, 1930.



Persicus Arbor Mixture

No claim being made to the words "Arbor Mixture" apart from the mark shown.
For Mixture for Preventing Pitch Gum in Peach Trees.
Claims use since Mar. 1, 1929.

Ser. No. 302,444. REMO LABORATORY, Elizabeth, N. J. Filed June 14, 1930.

I-VEX

For Medicinal Preparation for Eczema and Ivy Poisoning.
Claims use since July, 1927.

Ser. No. 303,545. PINOLUX COMPANY, Camden, N. J. Filed July 16, 1930.

PINOLUX

For Soluble Pine Oil for the Bath and for Use as a Liniment.
Claims use since Apr. 15, 1929.

Ser. No. 303,635. ESKIMO PIE CORPORATION, Louisville, Ky. Filed July 19, 1930.

MAGIC ICE

Applicant is the owner of registered Trade-Mark No. 247,471.

For Solidified Carbon Dioxide.

Claims use since Nov. 15, 1927.

Ser. No. 304,014. PLANTABBS CORPORATION, Baltimore, Md. Filed July 30, 1930.

RID-O-BUG

For Insecticide.

Claims use since Mar. 26, 1930.

Ser. No. 304,654. EURO AMERICAN CORPORATION, Newark, N. J. Filed Aug. 15, 1930.



No claim is made to the representation of the goods or to the particular configuration of the label except in the association shown.

For Perfume.

Claims use since September, 1929.

Ser. No. 304,689. R. H. JUSTICE, doing business as Justice Manufacturing Co., Williamsburg, Pa. Filed Aug. 16, 1930.



The word "Salve" not being claimed apart from the other features of the mark.

For Salve for Treating Chapped Lips, Face, and Hands, Burns, Fever Blisters, Sores, Cuts, Eczema, Sunburn, and Other Skin Affections.

Claims use since May 13, 1930.

Ser. No. 304,965. MRS. HATTIE MONCRIEF, Atlanta, Ga. Filed Aug. 23, 1930.



CLEVER STAR

The lining on the drawing is for the purpose of shading only.

For Hair Restorer.

Claims use since July 19, 1930.

Ser. No. 305,100. ANTONINO DIMAIUTA, New York, N. Y. Filed Aug. 28, 1930.

DIMAIUTA'S CREAM



ANTONINO DIMAIUTA

The portrait which appears on the drawing submitted with this application is that of the applicant. The applicant does hereby disclaim any exclusive right to the use of the word "Cream" which is contained in the trademark aforesaid.

For Preparation to Relieve the Discomforts of Hemorrhoids or Piles.

Claims use since June 1, 1923.

Ser. No. 305,117. PAUL PETER MÜLHENS, doing business as Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne, Germany. Filed Aug. 28, 1930.

Esthéta

For Eau de Cologne, Lavender Water, Hair Washes, Perfumes, Brilliantine, Depilatory, Shampoo Powder, Hair Oil, Mouth Lotion, Tooth Paste, Vanishing Cream, Cold Cream, Bath Salts, Face Powders, Compact Powder Refills, Talcum Powder, Powder Papers, Nail Crayon, Sachet Powder, Smelling Salts, After-Shaving Lotion.

Claims use since April, 1930.

Ser. No. 305,159. JOSEPH CROSFIELD & SONS, LIMITED, Warrington, England. Filed Aug. 30, 1930.

SORBSIL

For Silica Gels, Being Porous Silicious Materials for the Absorption of Chemical Products or Dyestuffs or Colouring Matters and the Like from Liquids or Gases, and for the Absorption and Recovery of Vapours of Organic Compounds or of Water from Gases.

Claims use since May 10, 1927.

Ser. No. 305,185. HARM HARMS, doing business as "H" Ointment Co., Benid, Ill. Filed Aug. 30, 1930.

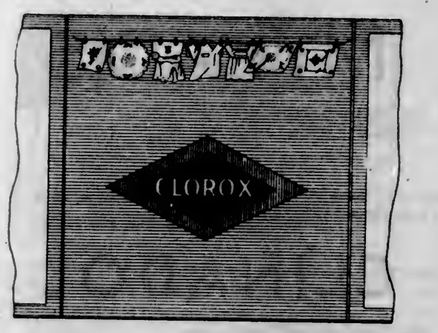


The likeness thereon is that of my son, Raymond Leroy Harms. All wording with the exception of the letter "H" is disclaimed apart from the mark as shown on the drawing.

For Ointment for the Treatment of Piles, Fistulas, Boils, and Other Inflammations of the Body.

Claims use since Aug. 23, 1930.

Ser. No. 305,216. CLOROX CHEMICAL CO., Oakland, Calif. Filed Sept. 2, 1930.



The drawing has been lined to indicate a background of light blue and a vermillion diamond having a dark blue center. Applicant is the owner of registered Trade-Marks No. 102,650 and No. 251,292.

For Bleaching, Cleansing, Antiseptic and Germicidal Compounds.

Claims use since 1915.

Ser. No. 305,227. KEYSTONE PRODUCTS COMPANY, Pittsburgh, Pa. Filed Sept. 2, 1930.

Lox

For Shampoo Preparation.

Claims use since June 17, 1930.

Ser. No. 305,363. LEVER BROTHERS COMPANY, Cambridge, Mass. Filed Sept. 5, 1930.

OMO

For Preparation of Oxygen for Bleaching, Cleansing, and Purifying.

Claims use since Mar. 8, 1910.

Ser. No. 305,379. UNITED DRUG COMPANY, Boston, Mass. Filed Sept. 5, 1930.

Rex-Mentho
"The Chest Rub"

The words "The Chest Rub" appearing on the drawing are disclaimed.

For Medicinal Preparation Consisting of an Ointment or Salve with Inhalant Properties for Relieving the Discomforts of Common Colds, Muscular Aches and Pains, Simple Headaches, and Neuralgia.

Claims use since Sept. 2, 1930.

Ser. No. 305,500. SOLIDOL CHEMICAL LIMITED, London, England. Filed Sept. 9, 1930.

MYLADIS

For Disinfectants.
Claims use since Apr. 8, 1930.

Ser. No. 305,561. CLINADOL CO., INC., New York, N. Y. Filed Sept. 11, 1930.

CLINADOL

For Cod-Liver-Oil Preparation.
Claims use since Sept. 9, 1930.

Ser. No. 305,639. VIVILLE (PARIS), INC., New York, N. Y. Filed Sept. 12, 1930.

Prés de Moi

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, After-Shaving Lotions, Pomades, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.
Claims use since Sept. 6 1930.

Ser. No. 305,640. VIVILLE (PARIS), INC., New York, N. Y. Filed Sept. 12, 1930.

Dame de Laque

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, After-Shaving Lotions, Pomades, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.
Claims use since Sept. 6, 1930.

Ser. No. 305,641. VIVILLE (PARIS), INC., New York, N. Y. Filed Sept. 12, 1930.

Ecaille

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, After-Shaving Lotions, Pomades, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.
Claims use since Sept. 6, 1930.

Ser. No. 305,642. VIVILLE (PARIS), INC., New York, N. Y. Filed Sept. 12, 1930.

Coeur de l'Ete

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, After-Shaving Lotions, Pomades, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.
Claims use since Sept. 6, 1930.

Ser. No. 305,643. VIVILLE (PARIS), INC., New York, N. Y. Filed Sept. 12, 1930.

Baccara

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, After-Shaving Lotions, Pomades, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.
Claims use since Sept. 6, 1930.

Ser. No. 305,648. BLIZZ MFG. CO., Owensville, Mo. Filed Sept. 13, 1930.

"BLIZZ"

For Antifreeze Liquid and Rust Preventer.
Claims use since Aug. 1, 1930.

Ser. No. 305,660. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Sept. 13, 1930.

DURAVAL

For Dyes and Dyestuffs.
Claims use since Aug. 13, 1930.

Ser. No. 305,680. PEOPLES DRUG STORES, INC., doing business as Graham Remedy Company, Washington, D. C. Filed Sept. 13, 1930.

CADOX

For Foot Powder.
Claims use since Jan. 26, 1910.

Ser. No. 305,684. STANCO INCORPORATED, New York, N. Y. Filed Sept. 13, 1930.



No claim is made to the printed language appearing on the drawing with the exception of the word "Flit" and "Stanco Incorporated." No claim is made to the representation of a label. The drawing is lined for shading purposes only.
For Insecticides, Deodorants, and Disinfectants.
Claims use since Aug. 12, 1930.

Ser. No. 305,728. CARL A. RUEGG, doing business as The Asepar Co., New York, N. Y. Filed Sept. 15, 1930.

ASEPAR

For Powder to be Used as a Mouth Wash.
Claims use since Aug. 16, 1930.

Ser. No. 305,795. VIVILLE (PARIS), INC., New York, N. Y. Filed Sept. 17, 1930.

Laquer Lady

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, After-Shaving Lotions, Pomades, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Mouth Washes, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.
Claims use since Sept. 6, 1930.

Ser. No. 306,099. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conu. Filed Sept. 26, 1930.

KESAL

For Effervescent Laxative Salts.
Claims use since Aug. 29, 1930.

Ser. No. 306,100. WILLIAM J. MCCAFFERY, doing business as Pacific Beauty Parlor, Kelso, Wash. Filed Sept. 26, 1930.

MAY DAY

For Liquid for Treating and Dressing Permanently-Waved and Naturally-Curly Hair.
Claims use since June 1, 1927.

CLASS 7

Cordage

Ser. No. 298,497. HANOVER CORDAGE COMPANY, Hanover, Pa. Filed Apr. 7, 1930.

PUR-MERICAN

For Hemp Sail or Sewing Twine.
Claims use since Nov. 15, 1929.

Ser. No. 304,436. THE UPSON-WALTON COMPANY, Cleveland, Ohio. Filed Aug. 9, 1930.

UPSON-WALTON

For Manilla Rope.
Claims use since 1926.

CLASS 10

Fertilizers

Ser. No. 302,555. THE W. A. SIMPSON COMPANY, Baltimore, Md. Filed June 18, 1930.

LAWNSPUR

For Fertilizer.
Claims use since January, 1930.

Ser. No. 305,820. MERCHANTS FERTILIZER & PHOSPHATE COMPANY, Charleston, S. C. Filed Sept. 18, 1930.

GARDENGRO!

For Plant Food and Fertilizer for Gardens, Pot Plants, Lawn Cultivation, Etc.
Claims use since July 1, 1930.

CLASS 12

Construction Materials

Ser. No. 296,627. THE BEST BROTHERS KEENE'S CEMENT COMPANY, Medicine Lodge, Kans. Filed Feb. 28, 1930.



For Casting, Finishing, Molding, and Gauging Plaster.
Claims use since Feb. 4, 1930.

Ser. No. 303,208. EMIL POEGEL, Newark, N. J. Filed July 7, 1930.



For Plastic Coating for Buildings.
Claims use since Jan. 1, 1929.

Ser. No. 304,295. PERMA-GREEN COMPANY, INC., Kansas City, Mo. Filed Aug. 6, 1930.

PERMA-GREEN

No claim is made to the word "Green" apart from the mark shown in the drawing.
For Coverings for Miniature Golf Courses Comprising a Mixture of Shredded Wood, Wood Wool, or Wood Fibre Incorporated with a Coloring Material and Binder to Produce a Matted Surface.
Claims use since May 10, 1930.

Ser. No. 304,500. FISH-SCHURMAN CORPORATION, New York, N. Y. Filed Aug. 12, 1930.

DENSO-TEK

For Plastic Protective Nonrusting and Waterproof Composition and Tape and Fabric Impregnated or Coated Therewith Which is Applied to Metal Pipes or Parts to Prevent Same from Corroding.
Claims use since June 26, 1930.

Ser. No. 304,924. MIDWEST BRICK COMPANY, Ottawa, Ill. Filed Aug. 22, 1930.

RISTOKOTTA

For Brick and Like Wall Building Blocks.
Claims use since July 17, 1930.

Ser. No. 305,070. ALBERT M. COLEMAN, doing business as Coleman Equipment Company, Boston, Mass. Filed Aug. 27, 1930.

FROLJOINTS

For Plastic Compound for Sealing Joints.
Claims use since June 1, 1930.

Ser. No. 305,137. THE LOGAN-LONG COMPANY, Chicago, Ill. Filed Aug. 29, 1930.

SAFEWAY

For Outside Coverings Made of Flexible Felt and Impregnated with Asphaltum for Attachment to the Outer Walls of Buildings.
Claims use since Aug. 7, 1930.

Ser. No. 305,235. MOSINEE PAPER MILLS COMPANY, Mosinee, Wis. Filed Sept. 2, 1930.

CORDEX

For Paper Used for Steel Backing and Thermal Insulating Purposes.
Claims use since May 13, 1929.

Ser. No. 305,437. LAMELLA ROOF SYNDICATE, INC., New York, N. Y. Filed Sept. 8, 1930.

LAMELLA

For Structural Members for Constructing Roofs.
Claims use since Aug. 6, 1930.

Ser. No. 305,521. THE FLINTKOTE COMPANY, Boston, Mass. Filed Sept. 10, 1930.

NUBINALT

For Bituminous Emulsions.
Claims use since Apr. 25, 1930.

Ser. No. 305,650. BOTFIELD REFRACTORIES COMPANY, Philadelphia, Pa. Filed Sept. 13, 1930.

ADASET

For Refractory Cement.
Claims use since Mar. 3, 1930.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 290,778. THE CONSOLIDATED EXPANDED METAL COMPANIES, Wheeling, W. Va. Filed Oct. 8, 1929.

HANK

For Lathers' Hairpins.
Claims use since Apr. 23, 1929.

Ser. No. 297,037. TUBE-TURNS INCORPORATED, Louisville, Ky. Filed Mar. 8, 1930.

TUBE-TURN

No claim is made to the word "Tube" apart from the mark as shown on the drawing.
For Metal Bent-Pipe Sections.
Claims use since Mar. 1, 1929.

Ser. No. 300,266. FOSTER WHEELER CORPORATION, New York, N. Y. Filed May 10, 1930.

FW

For Metal Tubes and Pipes and Expansion Joints.
Claims use since Jan. 16, 1930.

Ser. No. 305,865. LOUIS H. LEHMAN, doing business as The Lehman Sprayshield Company, Philadelphia, Pa. Filed Sept. 19, 1930.

"Don't Bathe in a Tent"

For Glass Shower-Stall Doors and Shower-Bath Shields.
Claims use since January, 1929.

Ser. No. 306,254. JAMES F. KING, Hillsgrove, R. I. Filed Mar. 3, 1930.

KING DIAMOND

For Metal-Pipe Unions.
Claims use since Feb. 4, 1930.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 303,584. UNION STEEL CASTING COMPANY, Pittsburgh, Pa. Filed July 17, 1930.

"UNIVAN"

For Special-Alloy Steel Castings.
Claims use since Mar. 31, 1928.

Ser. No. 305,646. L. E. ZURBACH STEEL CO., Cambridge, Mass. Filed Sept. 12, 1930.

ZURCOSTEEL

For Sheet Steel.
Claims use since Feb. 1, 1930.

Ser. No. 305,830. S. & T. METAL CO., Chicago, Ill. Filed Sept. 18, 1930.

SATCO

For Lead Alloys.
Claims use since Dec. 1, 1929.

CLASS 15

Oils and Greases

Ser. No. 288,593. WILLIAM DRYPOLCHER, Bogota, N. J. Filed Aug. 16, 1929.

SPIROL

For Lubricating Oils and Greases.
Claims use since July 22, 1929.

Ser. No. 293,195. SHELL OIL COMPANY, San Francisco, Calif. Filed Dec. 3, 1929.

SHELL

AIRMOTOR OIL

No claim is made to the words "Airmotor Oil" apart from the mark shown in the drawing.
For Engine-Lubricating Oil.
Claims use since June 7, 1929.

Ser. No. 295,027. GOODOIL COMPANY, INC., Philadelphia, Pa. Filed Jan. 21, 1930.

GOODOIL

The drawing is lined to indicate the colors white and red. The exclusive right to the use of the words "Good Oil" is herein disclaimed apart from the mark shown in the drawing. No claim is herein made to the words "A Good Motor Oil."
For Lubricating Oils.
Claims use since Jan. 13, 1930.

CARNEGIE LIBRARY OF ATLANTA

Ser. No. 302,051. SHELL OIL COMPANY, San Francisco, Calif. Filed May 31, 1930.

SHELL

AIRMOTOR
Gasoline

The words "Airmotor Gasoline" are disclaimed apart from the mark shown on the drawing.
For Gasoline.
Claims use since Mar. 5, 1930.

Ser. No. 302,052. SHELL OIL COMPANY, San Francisco, Calif. Filed May 31, 1930.

SHELL

For Gasoline and Motor-Lubricating Oil.
Claims use since Mar. 5, 1930.

Ser. No. 304,168. VALVOLINE OIL COMPANY, Edgewater, N. J., and New York, N. Y. Filed Aug. 2, 1930.

VALVOLINE

ETC OIL

No claim being made to the exclusive use of the word "Oil" apart from the mark as shown.
For Lubricating Oils.
Claims use since May 28, 1930.

Ser. No. 305,485. KUEHNLE, INC., Philadelphia, Pa. Filed Sept. 9, 1930.

TOTEM

For Cup Grease, High-Pressure Grease, and Chassis Lubricant and Graphite Penetrating Oil.
Claims use since Aug. 12, 1930.

CLASS 16

Paints and Painters' Materials

Ser. No. 296,847. ALUMINUM COMPANY OF AMERICA, Pittsburgh, Pa. Filed Mar. 5, 1930.

For Aluminum Bronse Powder.
Claims use since Aug. 22, 1929.

Ser. No. 305,006. INTERNATIONAL CHEMICAL COMPANY, Chicago, Ill. Filed Aug. 25, 1930.

Dura Seal

The word "Seal" is disclaimed except as part of the mark shown.
For Preservative and Finish in the Nature of a Paint or Varnish for Articles and Constructions of Wood, Cork, Cement, Marble, Terrazzo, and Compositions.
Claims use since Apr. 9, 1929.

Ser. No. 305,076. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Filed Aug. 27, 1930.

DUOL

For Dry Colors for Paints.
Claims use since Feb. 16, 1928.

Ser. No. 305,394. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Sept. 6, 1930.

DU-LUX

For Wood Stains, Fillers; Dry Colors—Namely, Dry Aniline Wood-Stain Powders; Prepared Shellac, Varnishes, Thinners, Paint Enamels, Lacquers.
Claims use since Aug. 9, 1928.

CLASS 17

Tobacco Products

Ser. No. 302,228. THE AMERICAN TOBACCO COMPANY, New York, N. Y. Filed June 7, 1930.

LUCKY STRIKE CIGARS

No claim is made to the word "Cigars" except in connection with the mark as shown.
For Cigars.
Claims use since 1886.

Ser. No. 304,826. THOMAS E. OFIESH, doing business as Broadway Cigarette & Tobacco Co., Altoona, Pa. Filed Aug. 20, 1930.

BROADWAY

For Cigars, Cigarettes, and Smoking Tobacco.
Claims use since July 22, 1929.

Ser. No. 305,299. THE TOBACCO REHANDLING CO., LTD., Louisville, Ky. Filed Sept. 3, 1930.

SAM

For Leaf Tobacco.
Claims use since February, 1927.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 303,675. WOLSELEY MOTORS (1927) LIMITED, Birmingham, England. Filed July 19, 1930.

HORNET

For Automobiles and Their Constructive Parts.
Claims use since Mar. 20, 1930.

Ser. No. 304,852. AMERICAN AUSTIN CAR COMPANY, INC., Butler, Pa. Filed Aug. 21, 1930.

AMERICAN AUSTIN

No claim is made in the use of the word "American" apart from and except in association with the other features of the mark shown in the drawing.
For Motor Vehicles—Namely, Touring Cars, Coupés, Roadsters, Sedans, Limousines, Taxicabs, Delivery Cars, Trucks, Chassis, and Constructive Parts Thereof.
Claims use since May 30, 1930.

Ser. No. 305,866. LEMPCO PRODUCTS, INC., Bedford, Ohio; New York, N. Y.; Chicago, Ill.; San Francisco, Calif.; Atlanta, Ga.; and Dallas, Tex. Filed Sept. 19, 1930.

LEMPCO

For Axle Shafts and Brake Drums.
Claims use since June, 1921.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 295,324. THE APEX ELECTRICAL MANUFACTURING COMPANY, Cleveland, Ohio. Filed Jan. 29, 1930.

RŌTAREX

For Battery, Alternating-Current, and Crystal Radio Receiving Sets; Short-Wave Adapters; Screen-Grid Preamplifiers, Radio Frequency Oscillators, Radio Frequency Boosters, and Audiooscillators, Both Vacuum Tubes and Assembled Units; Wave Traps, Electric Phonograph Pick-Ups, Loud-Speakers, Vacuum Radiotubes; Single-Dial Connectors, Television Transmitting and Receiving Units.
Claims use since Nov. 18, 1929.

Ser. No. 299,081. ARTHUR C. PFAU, doing business as Eltyro Company, Cincinnati, Ohio. Filed Apr. 18, 1930.

Eltyro

For Electric Routing Tools for Use on Electrotypes and the Like.
Claims use since Feb. 18, 1930.

Ser. No. 301,993. NATIONAL BATTERY COMPANY, St. Paul, Minn. Filed May 31, 1930.

EAGLE

For Electric Batteries.
Claims use since Jan. 10, 1925.

Ser. No. 303,285. HARTWELL HAAS and J. O. FRANCIS HAAS, Chicago, Ill. Filed July 9, 1930.

TEL-O-MIKE

No exclusive claim is made to the word "Mike" and the representation of the goods apart from the mark shown in the drawing.
For Telephone Transmitter Silencers.
Claims use since June 20, 1930.

Ser. No. 303,791. SIMPLIMUS, INC., Boston, Mass. Filed July 24, 1930.

Simplimus

For Electrical Systems for Reproducing, Amplifying, and Projecting Sound from Records of the Phonograph Type or Films and Parts Thereof, Consisting of Electrical Pick-Up, Amplifiers, Photoelectric Cells, Sound Gates, Aperture Plate and Pressure Pad, Tone Controls, Lens, Tubes, Light-Reflecting Mirrors, and Sprocket and Film Rollers.
Claims use since May 15, 1929.

Ser. No. 303,800. BOND ELECTRIC CORPORATION, Jersey City, N. J. Filed July 25, 1930.

INDUSTRIALITE

For Electric Flash Lights.
Claims use since Mar. 12, 1928.

Ser. No. 304,224. SUMMIT MANUFACTURING COMPANY, Davenport, Iowa. Filed Aug. 4, 1930.

SUMMIT

For Electrically-Heated Water Heaters.
Claims use since Apr. 16, 1929.

Ser. No. 304,675. WESTERN AUTO SUPPLY AGENCY, Los Angeles, Calif. Filed Aug. 15, 1930.

WASCO

The lines shown on the drawing indicate shading only.
For Storage Batteries and Parts Therefor.
Claims use since Aug. 1, 1930.

Ser. No. 305,498. SCOVILL MANUFACTURING COMPANY, Waterbury, Conn. Filed Sept. 9, 1930.

SCOVILL

For Flash Lights and Radiocondensers.
Claims use since Feb. 14, 1930.

Ser. No. 305,515. COLUMBIA RADIO CORPORATION, Chicago, Ill. Filed Sept. 10, 1930.

TROJAN

For Radio Receiving Sets, Vacuum or Electron Tubes and Radio Speakers.
Claims use since July 8, 1930.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 303,351. THERMO INSTRUMENT COMPANY, INC., Norfolk, Va. Filed July 10, 1930.

GOLFTAB

For Device for Use in Recording the Events in a Game Such as Golf.
Claims use since Feb. 14, 1930.

Ser. No. 303,474. FRANK R. HANSON, Seattle, Wash. Filed July 14, 1930.

Publici-Tee

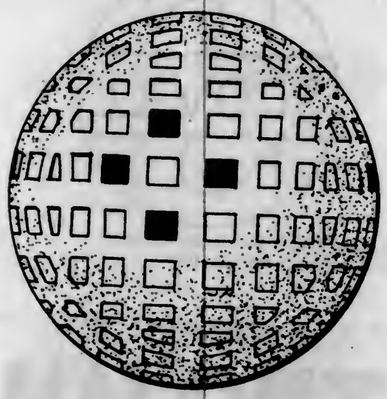
No claim is made to the word "Tee" apart from the mark as shown.
For Golf Tees.
Claims use since June 15, 1930.

Ser. No. 303,872. JAY B. BASSETT, Beverly Hills, Calif. Filed July 28, 1930.

WEE-WEE

For Portable Golf Games, Comprising Portable Fairways and Hazards in Connection with Which the Usual Golf Ball and Putter are Employed.
Claims use since July 16, 1930.

Ser. No. 303,882. ENDICOTT JOHNSON CORPORATION, Endicott, N. Y. Filed July 28, 1930.



No claim is herein made to the representation of the golf ball which is shown in the drawing merely to exemplify the mark.
For Golf Balls.
Claims use since Apr. 14, 1930.

Ser. No. 304,285. ELMER HAKE, Covington, Ky. Filed Aug. 6, 1930.

GOLLUF

For Portable Indoor and Outdoor Golf-Green-Game Apparatus, Consisting of a Scoring Field, Ball, and Impeller for the Ball.
Claims use since July 16, 1930.

Ser. No. 304,646. WRIGHT & MCGILL COMPANY, Denver, Colo. Filed Aug. 14, 1930.



The word "Hooks" and the representation of a hook and leader are disclaimed for the purpose of this registration only.
For Fish Lures.
Claims use since Sept. 27, 1927.

Ser. No. 304,732. NESTOR JOHNSON MANUFACTURING COMPANY, Chicago, Ill. Filed Aug. 18, 1930.

ALL-AMERICAN

For Ice Skates and Skate Outfits, Consisting of Attached Shoe and Skate.
Claims use since Nov. 27, 1929.

Ser. No. 304,910. THE DENT HARDWARE COMPANY, Fullerton, Pa. Filed Aug. 22, 1930.

CALAMITY JANE

For Golf Clubs.
Claims use since Aug. 11, 1930.

Ser. No. 305,344. HAROLD W. DUTCHER, Asbury Park, N. J. Filed Sept. 5, 1930.

CAMEL

For Miniature Portable Golf Courses; Golf Ball, Clubs, and Accessories; Tennis Balls, Rackets, and Nets; Toy Baseball Outfits—Namely, Toy Bats, Balls, and Gloves; Bows and Arrows for Archery; and Toys and Games—Namely, Toy Baseball, Toy Archery, and Toy Golf, Not Including Board Games.
Claims use since July 15, 1930.

Ser. No. 305,454. PETERSON & MANN AMUSEMENT COMPANY, Greeley, Colo. Filed Sept. 8, 1930.



The drawing is lined to indicate the color red. No claim is made to the descriptive term "Golf" apart from the mark shown on the drawing.
For Hazards, Flags, Markers, and Finely-Divided Material Used in Making Artificial Playing Surfaces, All Sold as a Unit for Outdoor and Indoor Miniature Golf Courses.
Claims use since July 14, 1930.

Ser. No. 305,518. CHARLES C. FINN, doing business as The Gungoff Co., Seattle, Wash. Filed Sept. 10, 1930.

Gungoff

For Game Comprising a Table, a Projector, and a Movable Target.
Claims use since July 19, 1930.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 291,028. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Oct. 12, 1929.

ARMOR POINT

No claim is made to the word "Point" apart from the mark shown in the drawing.
For Plow Shares.
Claims use since July 25, 1929.

Ser. No. 298,994. HI-G-NIK DISHWASHER CO., Los Angeles, Calif. Filed Apr. 17, 1930.

Hi-G-niK

For Dishwashing Machines Made of Metal.
Claims use since July 9, 1929.

Ser. No. 300,620. ECLIPSE LAWN MOWER CO., Prophetstown, Ill. Filed May 16, 1930.

CENTURY

For Lawn Mowers.
Claims use since Apr. 30, 1930.

Ser. No. 300,627. HAMMEL, RIGLANDER-PENNANT CORPORATION, New York, N. Y. Filed May 16, 1930.

TIGRE DORÉ

For Jewelers' Saws.
Claims use since Oct. 28, 1929.

Ser. No. 303,871. THE BANTAM BALL BEARING COMPANY, South Bend, Ind. Filed July 28, 1930.



Applicant claims ownership of Reg. No. 56,912, issued Oct. 23, 1906. No claim is made to the bearing ball apart from the mark shown.
For Antifriction Bearings.
Claims use since June 9, 1930.

Ser. No. 304,429. GEO. D. ROPER CORPORATION, Rockford, Ill. Filed Aug. 9, 1930.



For Pumps—Namely, Farm Pumps, Such as House Pumps for Shallow Wells, Pitcher Spout Pumps, Hand-Lift and Force Pumps, Windmill-Lift and Force Pumps, Underground Force Pumps, Booster Reciprocating Pumps, Hand Tank Pumps, and Well Cylinders for the Foregoing; Other Pumps for Different Purposes, Such as Garage Pumps—Namely, Hand-Operated Double-Acting Pumps for Elevating Gasoline, Kerosene, and Oils from Underground Storage, and Boiler-Feed Pumps; Rotary Gear Pumps, Hand Operated or Power Driven, Suitable for Pumping a Wide Variety of Liquids Industrially and Otherwise; Hand Rotary Vane Pumps; and Shallow and Deep Well Water Systems and Pumps in General and Parts Thereof.
Claims use since 1927.

Ser. No. 304,799. ANDRE CAMPICHE, Lausanne, Switzerland. Filed Aug. 20, 1930.

HYDROGAZEUR

For Apparatus for Humidifying the Gaseous Charge in Internal-Combustion Engines.
Claims use since Nov. 26, 1929.

Ser. No. 304,866. GREENFIELD TAP AND DIE CORPORATION, Greenfield, Mass. Filed Aug. 21, 1930.



No claim is made to the representation of the drill or of the words "Copper Flute" as appearing on the drawing. The trade-mark consists in a copper-colored helical stripe congruent with the helical fluting of the drill and is shown on the drawing by the stipling in the said fluted portion.
For Twist Drills for Metal Working.
Claims use since July 2, 1930.

Ser. No. 305,842. THE ATWOOD MACHINE COMPANY, Stonington, Conn. Filed Sept. 19, 1930.

J

For Spinning and Twisting Spindles.
Claims use since Sept. 2, 1930.

Ser. No. 305,843. THE ATWOOD MACHINE COMPANY, Stonington, Conn. Filed Sept. 19, 1930.

A

For Spinning and Twisting Spindles.
Claims use since Sept. 2, 1930.

Ser. No. 305,844. THE ATWOOD MACHINE COMPANY, Stonington, Conn. Filed Sept. 19, 1930.

AD

For Spinning and Twisting Spindles.
Claims use since Sept. 2, 1930.

Ser. No. 305,845. THE ATWOOD MACHINE COMPANY, Stonington, Conn. Filed Sept. 19, 1930.

17

For Spinning and Twisting Spindles.
Claims use since Sept. 2, 1930.

CLASS 24

Laundry Appliances and Machines

Ser. No. 305,879. ROKOR COMPANY, Cleveland, Ohio. Filed Sept. 19, 1930.

ROKOR

For Dry-Cleaning and Laundry Machines Comprising a Combined Clothes Washer and Boiler.
Claims use since Aug. 7, 1930.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 287,486. MASTERPHONE SOUND CORPORATION, Seattle, Wash. Filed July 22, 1929.

MASTER PHONE

The term "Phone" is hereby disclaimed aside from the association with the mark as shown.
For Unitary Machine or Apparatus for the Synchronous Production and Reproduction of Light and Sound Effects Known as the Talking Movies.
Claims use since Dec. 15, 1928.

Ser. No. 304,190. DIAMOND POWER SPECIALTY CORPORATION, Detroit, Mich. Filed Aug. 4, 1930.

DIAMOND

For Gauge Glasses, Water Columns, and Water Gauges.
Claims use since July 14, 1930.

Ser. No. 304,191. DIAMOND POWER SPECIALTY CORPORATION, Detroit, Mich. Filed Aug. 4, 1930.



For Gauge Glasses, Water Columns, and Water Gauges.
Claims use since July 14, 1930.

Ser. No. 305,345. EASTMAN KODAK COMPANY, Rochester, N. Y. Filed Sept. 5, 1930.

TRANSLITE

For Light-Sensitive Photographic Paper.
Claims use since Feb. 17, 1930.

Ser. No. 305,626. SQUARE D COMPANY, Detroit, Mich. Filed Sept. 12, 1930.

SQUARE D

For Voltage Testers.
Claims use since August, 1924.

Ser. No. 305,840. AMERICAN SPECTACLE COMPANY, INC., New York, N. Y. Filed Sept. 19, 1930.



For Optical Goods—Namely, Lenses, Spectacles, and Parts Thereof.
Claims use since Sept. 11, 1930.

CLASS 27

Horological Instruments

Ser. No. 300,645. MONTGOMERY WARD & CO., INCORPORATED, Chicago, Ill. Filed May 16, 1930.

Crest Line

For Watches.
Claims use since Feb. 6, 1929.

Ser. No. 305,563. ELGIN NATIONAL WATCH COMPANY, Chicago and Elgin, Ill. Filed Sept. 11, 1930.

Presentation

For Watches, Watch Movements, and Watchcases.
Claims use since Jan. 2, 1924.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 303,641. HEATH'S BEAD SHOP, INC., St. Petersburg, Fla. Filed July 19, 1930.



For Bead Necklaces and Strings of Beads for Personal Adornment.
Claims use since Oct. 1, 1929.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 301,171. JULIUS V. HARPHAM, Lincoln, Nebr. Filed May 24, 1930.



No claim is made to the representation of the mit constituting a part of the mark shown in the drawing except in combination with the other features constituting the composite mark.
For Dusting Mittens.
Claims use since Nov. 8, 1928.

CLASS 31

Filters and Refrigerators

Ser. No. 301,707. SANITARY COTTON COMPANY, INC., Chicago, Ill. Filed May 29, 1930.



Exclusive use of the word "Milkloth" is disclaimed except in association shown in the drawing.
For Filter Bags Made of Cloth Manufactured from Cotton for Milk Filters Made of a Specially-Woven Fabric of High Efficiency as a Filter.
Claims use since Apr. 1, 1929.

Ser. No. 305,679. EDWARD RICE, JR., Philadelphia, Pa. Filed Sept. 13, 1930.

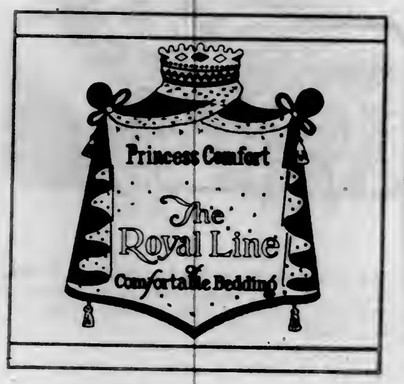
ICEFIN

For Refrigerating Apparatus.
Claims use since May 6, 1930.

CLASS 32

Furniture and Upholstery

Ser. No. 255,502. ELLISON FURNITURE & CARPET CO., Fort Worth, Tex. Filed Oct. 1, 1927.



Applicant disclaims the expression "Line of Comfortable Bedding" except in connection with other features of the mark.

For Cotton Mattresses, Springs, and Pillows.
Claims use since May 1, 1927.

Ser. No. 296,918. FRANCIS KARR, Holland, Mich. Filed Mar. 6, 1930.

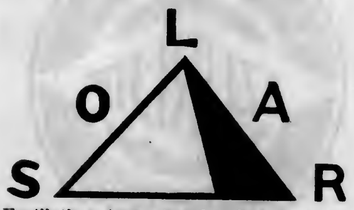
AIRIA

For Pillows, Cushions, and Mattresses.
Claims use since Jan. 25, 1930.

CLASS 34

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus

Ser. No. 287,145. WILLIAM H. LUTTON COMPANY, Jersey City, N. J. Filed July 15, 1929.



For Ventilating Apparatus for Greenhouses—Namely, Roof and Side Ventilating Sash and Wall Ventilating Panels and Heating Systems for Greenhouses.
Claims use since Mar. 18, 1929.

Ser. No. 299,361. THE AIR-WAY SUPER HEATER COMPANY, Lexington, Ky. Filed Apr. 24, 1930.

The AIR-WAY
SUPER HEATER

The words "Super Heater" are disclaimed apart from the other features of the mark shown in the drawings.
For Coal-Burning Heaters, Stoves, and Furnaces.
Claims use since Mar. 1, 1930.

Ser. No. 300,170. THE CLEVELAND HEATER COMPANY, Cleveland, Ohio. Filed May 9, 1930.



The lining and hatching representing the colors red, blue, yellow, brown, and black in the mark are disclaimed as apart from the mark as shown in the drawing.
For Gas, Oil, and Vapor Burning Water Heaters and Their Structural Parts.
Claims use since August, 1928.

Ser. No. 300,171. THE CLEVELAND HEATER COMPANY, Cleveland, Ohio. Filed May 9, 1930.

CHIEF

For Gas, Oil, and Vapor Burning Heaters and Their Structural Parts.
Claims use since April, 1906.

Ser. No. 304,465. LIBERTY FOUNDRIES COMPANY, Rockford, Ill. Filed Aug. 11, 1930.

Hā Dees

For Space Heaters Generally of a Type Through Which Steam or Hot Water is Passed to Deliver the Heat Therefrom, and Parts Thereof and Deflectors Therefor.
Claims use since 1927.

Ser. No. 305,825. THORNTON W. PRICE, doing business as The Coal Carburetor Company, New Brunswick, N. J. Filed Sept. 18, 1930.



For Furnace-Controlling Device Comprising an Electrically-Operated Blower Having Connections by Which to Blow Air into the Furnace Partly Below the Fire Grate and Partly Above the Fire.
Claims use since Jan. 1, 1928.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 285,892. THE SIMPLEX PISTON RING COMPANY OF AMERICA, INC., Cleveland, Ohio. Filed June 20, 1929.

Slap-Chek

Applicant claims ownership of registration No. 255,218 issued Apr. 16, 1929. The word "Slap" is disclaimed apart from the other features of the mark.
For Ring Expanders for Use with Piston Rings.
Claims use since Sept. 11, 1928.

Ser. No. 305,762. THE PERFECT CIRCLE CO., Hagerstown, Ind. Filed Sept. 16, 1930.

85

For Piston Rings.
Claims use since Sept. 3, 1930.

Ser. No. 305,944. THE SIMPLEX PISTON RING CO. OF AMERICA, Cleveland, Ohio. Filed Sept. 22, 1930.

CHALLENGER

For Piston Rings.
Claims use since Aug. 30, 1930.

CLASS 36

Musical Instruments and Supplies

Ser. No. 294,847. ELION BROS. FURNITURE COMPANY, doing business as International Phonograph & Record Company, El Paso, Tex. Filed Jan. 16, 1930.

UNIVERSAL

For Phonograph Records.
Claims use since July 15, 1928.

Ser. No. 302,519. CLINTON R. WHITE, Chicago, Ill. Filed June 17, 1930.

VIBROPHONE

For Electrically-Operated Phonograph-Disc-Record Reproducing Mechanism Arranged for Continuous Playing and Adapted for Radio Broadcasting and for Synchronization with Moving-Picture Films.
Claims use since November, 1926.

CLASS 37

Paper and Stationery

Ser. No. 290,269. MOSINEE PAPER MILLS COMPANY, Mosinee, Wis. Filed Sept. 26, 1929.

CORDEX

For Wrapping Paper.
Claims use since Apr. 6, 1929.

Ser. No. 290,741. THE CHILCOTE COMPANY, Cleveland, Ohio. Filed Oct. 7, 1929.

DURCOTE

For Mounts of Paper and Cardboard for Photographs and Pictures.
Claims use since Feb. 1, 1917.

Ser. No. 290,742. THE CHILCOTE COMPANY, Cleveland, Ohio. Filed Oct. 7, 1929.

MASTER MOUNTINGS

No claim is made to the word "Mountings" apart from the mark as shown.

For Mounts of Paper and Cardboard for Photographs and Pictures.

Claims use since May 20, 1929.

Ser. No. 302,150. NATIONAL PAPER PRODUCTS COMPANY, San Francisco, Calif. Filed June 3, 1930.

ZEE

For Toilet Paper.

Claims use since Feb. 1, 1930.

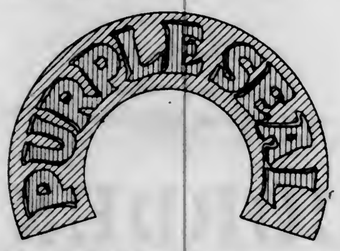
Ser. No. 303,763. BASIL G. EAVES, doing business as Ford and Frye, New York, N. Y. Filed July 24, 1930.

SAV-A-LIFE GRAM

For Letterheads.

Claims use since June 14, 1930.

Ser. No. 303,959. ENTERPRISE PAPER COMPANY, Philadelphia, Pa. Filed July 29, 1930.



The drawing is lined for the colors red and purple, but applicant is not limited to these colors, as they are not an essential feature of the mark.

For Paper—Namely, Wax Paper, Parchment Paper, Wrapping Paper, and Paper Napkins.

Claims use since Jan. 1, 1922.

Ser. No. 305,477. THE BRIDGE SPECIALTIES COMPANY, Cleveland, Ohio. Filed Sept. 9, 1930.

Wilbur C. Whitehead

The trade-mark consists of the personal signature of Wilbur C. Whitehead.

For Auction and Contract Bridge Scorers and Tally Pads.

Claims use since Apr. 23, 1930.

CLASS 38

Prints and Publications

Ser. No. 303,880. THE CONTEST MAGAZINE PUBLISHING COMPANY, Seattle, Wash. Filed July 28, 1930.

CONTEST MAGAZINE

For Periodicals Distributed Once Every Month or Oftener.

Claims use since May 2, 1930.

Ser. No. 305,215. CHICAGO VITREOUS ENAMEL PRODUCT COMPANY, Cicero, Ill. Filed Sept. 2, 1930.

BETTER ENAMELING

For Monthly Publications.

Claims use since May 1, 1930.

Ser. No. 305,356. GOOD STORY MAGAZINE COMPANY, INC., New York, N. Y. Filed Sept. 5, 1930.

GANGSTER STORIES

For Monthly Magazine.

Claims use since Oct. 1, 1929.

Ser. No. 305,391. THE CONDE NAST PUBLICATIONS, INC., New York, N. Y. Filed Sept. 6, 1930.

SHOP-SNAPS

For Magazine Section.

Claims use since Aug. 29, 1930.

Ser. No. 305,654. BURTON BIGELOW, Buffalo, N. Y. Filed Sept. 13, 1930.

"ICONOCLASMS"

For Section of a Publication.

Claims use since August, 1929.

Ser. No. 305,811. LOUIS SINCLAIR GRIGSBY, Philadelphia, Pa. Filed Sept. 18, 1930.

CREDITIME

For Newspaper, Magazine, and Bulletin Columns.

Claims use since Sept. 9, 1930.

Ser. No. 305,849. DAILY GRAPHIC, INC., New York, N. Y. Filed Sept. 19, 1930.

WOTTA WORLD

For Series of Cartoons or Comic Strips in Daily Paper.

Claims use since Sept. 12, 1930.

Ser. No. 306,200. THE POPE PUBLISHING CORPORATION, New York, N. Y. Filed Sept. 29, 1930.

THE REGISTER

For Reference Book Issued Every Three Years.

Claims use since 1920.

Ser. No. 306,206. THE UNITED STATES TRADE MARK ASSOCIATION, New York, N. Y. Filed Sept. 29, 1930.

THE TRADE-MARK REPORTER

For Monthly Publication.

Claims use since Jan. 1, 1911.

Ser. No. 306,240. CHARLES CARROLL MARTIN, doing business as The Pan-American Information Service, New York, N. Y. Filed Sept. 30, 1930.

"SIPA"

For News Service.

Claims use since Feb. 18, 1928.

CLASS 39

Clothing

Ser. No. 262,545. ARCHER RUBBER COMPANY, Milford, Mass. Filed Mar. 3, 1928.

"ARCHEROID" SPORT FABRIC

Applicant disclaims the words "Sport Fabric" except when used in connection with "Archeroid."

For Raincoats, Rain Jackets, Waterproof Hats, and Coats, Jackets, Hats, Slippers, Shoes, and Boots Manufactured from Textile Fabrics Treated with Rubber Compounds to Render Same Waterproof for the Use of Men, Women, and Children.

Claims use since Dec. 16, 1927.

Ser. No. 288,709. THE JULIAN & KOKENGE COMPANY, Cincinnati, Ohio. Filed Aug. 19, 1929.



No claim is made to the words "Fits the Arch" apart from their use as shown.

For Men's, Women's, and Children's Shoes, Made of Leather, Rubber, Fabric, and Combinations of These Materials.

Claims use since 1908.

Ser. No. 295,193. RÖWDE & COMPANY, Oslo, Norway. Filed Jan. 24, 1930.



For Boots, Shoes, and Slippers Made Partly or Wholly of Rubber, but Not Including Bathing Shoes.

Claims use since 1901.

Ser. No. 297,431. L. P. HOLLANDER COMPANY, INC., Boston, Mass. Filed Mar. 17, 1930.

DEBONAIR

For Ladies' and Misses' Apparel—Namely, Coats, Suits, Dresses, Skirts, Sweaters, Blouses, Riding Habits, Bathing Suits; Ladies', Misses', and Children's Hats; Ladies', Misses', and Children's Fur Coats, Fur-Trimmed Coats, Fur Muffs, and Fur Scarfs; Negligees, Silk and Cotton Underwear, Hosiery, Leather and Textile Gloves, Silk and Wool Gloves, and Ladies', Misses', and Children's Shoes Made of Leather, Crêpe de Chine, Satin, Silk Brocade, and Metal Brocade.
Claims use since Mar. 3, 1930.

Ser. No. 301,805. BROOKS BROTHERS, New York, N. Y. Filed May 31, 1930.

BROOK

For Collars.
Claims use since Oct. 29, 1912.

Ser. No. 301,811. BROOKS BROTHERS, New York, N. Y. Filed May 31, 1930.

COPLEY-SQUARE

For Collars.
Claims use since Apr. 2, 1915.

Ser. No. 301,877. G. FOX & CO. INC., Hartford, Conn. Filed May 31, 1930.

Gloria

For Gloves Made of Silk, Cotton, Leather, and Combinations of These Materials; Ties, Scarfs; Riding Suits and Riding Breeches for Men, Women, and Children; Riding Boots Made of Leather and Hides; Shoes Made of Leather, Hides, Rubber, or Fabric or of Combinations of These Materials; Slippers Made of Felt, Satin, Silk, Leather, Fabric, or of Combinations of These Materials; Corsets, Negligees, Pajamas.
Claims use since Jan. 1, 1930.

Ser. No. 302,835. A. H. SCHREIBER COMPANY, New York, N. Y. Filed June 25, 1930.

Chester

For Men's, Women's, and Children's Underwear and Outerwear—namely, Polo Shirts and Rayon Slip-Overs.
Claims use since Apr. 1, 1929.

Ser. No. 303,553. JACOB STEIN, doing business as Climax Rubber Company, New York and Brooklyn, N. Y. Filed July 16, 1930.

STEINWAY BRAND

The word "Brand" is disclaimed apart from the mark as shown.
For Baby Pants, Baby Bibs, Rubberized Aprons, Bathing Caps, Swimming and Bathing Shoes, Women's Underwear, Household Aprons, and Beach Coats.
Claims use since May, 1928.

Ser. No. 303,739. THE CHISHOLM SHOE COMPANY, Cleveland, Ohio. Filed July 23, 1930.

Chisholm's Foot Freedom NARROW HEEL

No claim is made to the exclusive use of the words "Narrow Heel" apart from the mark shown.
For Shoes Made of Leather, Leather and Fabric, and the Combination of Leather, Rubber, and Fabric.
Claims use since June 4, 1930.

Ser. No. 303,772. JULIUS KAYSER & CO., New York, N. Y. Filed July 24, 1930.

KAYSER

Applicant is owner of registration No. 69,911 under 10-year proviso and registration No. 70,107 under 10-year proviso, both renewed.
For Gloves Made of Leather or Fabric or Combination Thereof, Hosiery, and Underwear for Men, Women, and Children.
Claims use since Apr. 1, 1930.

Ser. No. 304,150. THE LOCKE HOSIERY MILLS, Philadelphia, Pa. Filed Aug. 2, 1930.

MY BABY HOSE

Applicant makes no claim to the word "Hose." The portrait is that of a certain individual, by name Anne Lois Locke, the daughter of the said J. Allen Locke, a member of the firm.
For Hosiery.
Claims use since Feb. 1, 1930.

Ser. No. 304,489. JOSEPH DANERHIRSCH, doing business as Daner Co., New York, N. Y. Filed Aug. 12, 1930.

Beach Club

For Men's Dress and Work Shirts.
Claims use since November, 1918.

Ser. No. 304,490. JOSEPH DANERHIRSCH, doing business as Daner Co., New York, N. Y. Filed Aug. 12, 1930.

Comfy Club

For Men's Dress and Work Shirts.
Claims use since May, 1926.

Ser. No. 304,491. JOSEPH DANERHIRSCH, doing business as Daner Co., New York, N. Y. Filed Aug. 12, 1930.

Day Club

For Men's Dress and Work Shirts.
Claims use since May, 1926.

Ser. No. 304,492. JOSEPH DANERHIRSCH, doing business as Daner Co., New York, N. Y. Filed Aug. 12, 1930.

Dress Club

For Men's Dress and Work Shirts.
Claims use since November, 1918.

Ser. No. 304,493. JOSEPH DANERHIRSCH, doing business as Daner Co., New York, N. Y. Filed Aug. 12, 1930.

Nite Club

For Men's Dress and Work Shirts.
Claims use since September, 1926.

Ser. No. 304,494. JOSEPH DANERHIRSCH, doing business as Daner Co., New York, N. Y. Filed Aug. 12, 1930.

Park Club

For Men's Dress and Work Shirts.
Claims use since November, 1918.

Ser. No. 304,495. JOSEPH DANERHIRSCH, doing business as Daner Co., New York, N. Y. Filed Aug. 12, 1930.

Royal Club

For Men's Dress and Work Shirts.
Claims use since March, 1929.

Ser. No. 304,517. SIRCOM TEXTILE CORPORATION, New York, N. Y. Filed Aug. 12, 1930.

Chiffonay

For Men's, Women's, and Children's Rayon, Silk, and Cotton Underwear Knitted and Woven.
Claims use since Mar. 1, 1930.

Ser. No. 304,594. VICTOR PRODUCTS CORPORATION, Winchester, Va. Filed Aug. 13, 1930.

CAMEL

Easy Walking.

No claim being made to the exclusive use of the words "Easy Walking" apart from the mark as shown.
For Rubber Soles and Rubber Heels.
Claims use since Apr. 15, 1930.

Ser. No. 304,683. ESSEX RUBBER COMPANY INC., Trenton, N. J. Filed Aug. 16, 1930.

Hy-Flex

For Rubber and Composition Heels for Boots and Shoes.
Claims use since Aug. 7, 1930.

Ser. No. 304,820. INTERNATIONAL SHOE CO., St. Louis, Mo. Filed Aug. 20, 1930.

NU-MATIC TREAD

For Boots and Shoes of Leather.
Claims use since Aug. 15, 1930.

Ser. No. 305,318. JOSH SARANDESES, New York, N. Y. Filed Sept. 4, 1930.

J.S. STIFFENER

No claim is made to the word "Stiffener" apart from the mark shown on the drawing.
For Men's Shirt Collars.
Claims use since Aug. 28, 1930.

Ser. No. 305,320. NATHAN SHULMAN, Baltimore, Md. Filed Sept. 4, 1930.

NAT
MAKER OF THE
BIG
BOY
KAP

No claim being made to the exclusive use of the words "Nat Maker of The—Kap", apart from the mark shown in the drawing.
For Men's and Boys' Hats and Caps.
Claims use since Mar. 1, 1929.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 299,102. ADJUSTA CO., New York, N. Y. Filed Apr. 19, 1930.

LEATHERITE

For Belt Buckles Made of Nonprecious Metal for Personal Wear—Namely, for Men's, Women's, and Children's Belts.
Claims use since Feb. 11, 1926.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 288,397. SILK STYLISTS ASSOCIATION OF AMERICA, New York, N. Y. Filed Aug. 10, 1929.

Hélène Lansac

For Silks, Velvets, and Lace in the Piece.
Claims use since Jan. 1, 1929.

Ser. No. 289,759. P. P. DE LA SOCIÉTÉ AME REY AINE, Brussels, Belgium. Filed Sept. 13, 1929.



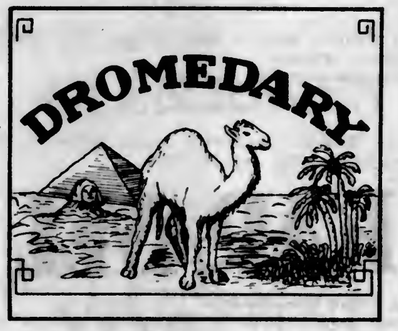
For Linen Piece Goods, Cotton Piece Goods, Jute Piece Goods, Flax Piece Goods, Pillowcases, Sheets, Tablecloths, Textile Towels, Duck, Handkerchiefs, Bolster Covers, and Shirtings.
Claims use since Aug. 27, 1888.

Ser. No. 299,272. MACKAY, SIGLER & TAYLOR, New York, N. Y. Filed Apr. 22, 1930.

TRICO-SPRAY

No claim is made to the term "Trico" apart from the mark shown.
For Piece Goods of Woolen Fabrics.
Claims use since Mar. 17, 1921.

Ser. No. 299,560. CHARLES M. DE LAND, New York, N. Y. Filed Apr. 28, 1930.



For Woolen Piece Goods.
Claims use since April, 1926.

Ser. No. 299,561. CHARLES M. DE LAND, New York, N. Y. Filed Apr. 28, 1930.

CAMOSETTE

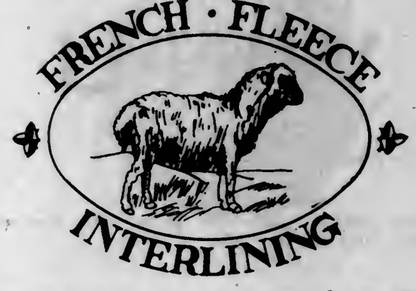
For Woolen Piece Goods.
Claims use since Jan. 1, 1930.

Ser. No. 300,498. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed May 14, 1930.

MARITA

For Woolen Piece Goods.
Claims use since Apr. 15, 1930.

Ser. No. 301,662. LEVY & BAUMANN, New York, N. Y. Filed May 29, 1930.



No claim is made to the words "French Fleece" and "Interlining" apart from the mark shown on the drawing.
For Interlining for Ladies' Coats Composed of Cotton, Fleece, and Silk.
Claims use since December, 1929.

Ser. No. 302,752. E. F. TIMME & SON, New York, N. Y. Filed June 23, 1930.

Squirrelece

For Pile Fabrics in the Piece.
Claims use since June 19, 1930.

Ser. No. 302,785. JAMES MCCUTCHEON & COMPANY, New York, N. Y. Filed June 24, 1930.

Crepecot

For Woven, Knitted, Netted, Textile, and Pile Fabrics in the Piece Comprised in Whole or in Part of Silk and/or Cotton.
Claims use since Apr. 1, 1930.

Ser. No. 303,053. THE HIND & HARRISON PLUSH CO., New York, N. Y. Filed July 2, 1930.

SILVERAM

For Pile Fabric with a Cotton Back and a Cotton Cut Pile in a Two Colored Effect in the Piece.
Claims use since June 10, 1930.

Ser. No. 303,054. THE HIRD & HARRISON PLUSH CO., New York, N. Y. Filed July 2, 1930.

OMBREPEL

For Pile Fabric with a Cotton Back and a Cotton Pile in a Two-Toned Effect in the Piece.
Claims use since June 10, 1930.

Ser. No. 303,121. POST & SHELDON CORPORATION, New York, N. Y. Filed July 3, 1930.

WIN-U

For Silk Piece Goods.
Claims use since June, 1928.

Ser. No. 303,378. HOLLISTON MILLS, INC., Norwood, Mass. Filed July 11, 1930.

MARBLEX

For Cotton Cloth in the Piece for Bookbinding Purposes.
Claims use since June 2, 1930.

Ser. No. 303,979. E. F. TIMME & SON, New York, N. Y. Filed July 29, 1930.

Lapinlece

For Pile Fabrics in the Piece.
Claims use since July 21, 1930.

Ser. No. 304,738. MATTHEW W. RYAN SONS & CO., INC., New York, N. Y. Filed Aug. 18, 1930.

CREPE CELX

No claim is made to the word "Crepe" apart from the mark shown.
For Fabrics Made from Cotton and Synthetic Yarns.
Claims use since Apr. 15, 1930.

Ser. No. 304,793. BEAR MILL MANUFACTURING CO. INC., New York, N. Y. Filed Aug. 20, 1930.



The figures in the drawing being fanciful, and no claim being made to the exclusive use of the words "Prints Guaranteed Fast Colors" apart from the mark as shown in the drawing.
For Cotton Piece Goods.
Claims use since Aug. 12, 1930.

Ser. No. 304,928. THE F. P. ROOT COMPANY, Cleveland, Ohio. Filed Aug. 22, 1930.



For Blankets Made of Wool, Cotton, Wool Mixtures, and Cotton Mixtures.
Claims use since July 1, 1930.

Ser. No. 304,992. CALIFORNIA COTTON MILLS CO., Oakland, Calif. Filed Aug. 25, 1930.

KARAVEL

For Cotton Piece Goods.
Claims use since Mar. 15, 1930.

Ser. No. 305,013. OLSON RUG COMPANY, Chicago, Ill. Filed Aug. 25, 1930.

PERSHANA RUGS

Applicant makes no claim to the exclusive use of the word "Rugs" apart from the mark as shown.
For Textile Rugs.
Claims use since Aug. 1, 1930.

Ser. No. 305,108. INTERNATIONAL MERCHANDISING SYNDICATE, INC., New York, N. Y. Filed Aug. 28, 1930.

SHAMMY VELOUR

No claim being made to the word "Velour" apart from the mark shown.
For Cotton Velour in the Piece.
Claims use since April, 1930.

Ser. No. 305,109. KNEALE, INC., New York, N. Y. Filed Aug. 28, 1930.

GENUINE

JONNY CLOTH

Applicant makes no claim to the words "Genuine" and "Cloth" as shown in the drawing except in the association used.
For All-Wool Fabric.
Claims use since April, 1930.

Ser. No. 305,384. THE AMERICAN MILLS COMPANY, Waterbury, Conn. Filed Sept. 6, 1930.

RUBBERSET

For Elastic Fabric and Webbing.
Claims use since July 30, 1930.

Ser. No. 305,526. GLEN RAVEN COTTON MILLS, Glen Raven, N. C. Filed Sept. 10, 1930.

GLEN RAVEN

VIVATONE

For Cotton Piece Goods for the Manufacture of Awnings, Draperies, Indoor and Outdoor Furniture.
Claims use since Aug. 17, 1926.

Ser. No. 305,599. WILLIAM H. ADAMS, Kenyon, R. I. Filed Sept. 12, 1930.

RUGGET

For Textile Rugs.
Claims use since June 30, 1930.

CLASS 43

Thread and Yarn

Ser. No. 304,780. THE MUNITEX CORPORATION, Paterson, N. J. Filed Aug. 19, 1930.



No claim is made to the representation of the goods and the words "Immunized Yarns" apart from the mark shown in the drawing.
For Treated and Esterified Cellulose, Yarns, Threads, and Filaments—Namely, Cotton and Artificial Silk.
Claims use since July 17, 1930.

Ser. No. 304,959. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany. Filed Aug. 23, 1930.

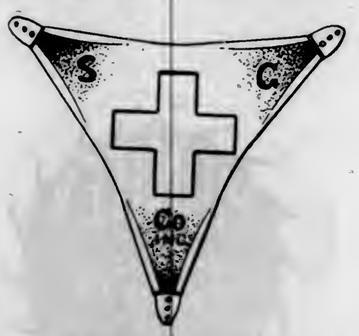


For Artificial-Silk Threads and Yarns.
Claims use since November, 1929.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 304,109. SAFEWEY GARMENT CO., INC., Brooklyn, N. Y. Filed Aug. 1, 1930.



Applicant makes no claim herewith to the exclusive use of the article as represented on the drawing.
For Women's Catamenial Appliance.
Claims use since Jan. 1, 1926.

Ser. No. 305,183. LORAND J. B. GLUZEK, New York, N. Y. Filed Aug. 30, 1930.

SENSAME

For Medical Diagnostical Instruments for Measuring the Sensation of Pain.
Claims use since Aug. 21, 1930.

Ser. No. 305,438. SAMUEL LEWIS, doing business as Tempo-Fill Manufacturing Company, Pittsburgh, Pa. Filed Sept. 8, 1930.

TEMPO-FILL

The right to the exclusive use of the word "Fill" is disclaimed in the statement apart from the mark as shown on the drawing.
For Dental Filling.
Claims use since July 24, 1930.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 303,156. CALIFORNIA FRUIT GROWERS EXCHANGE, Los Angeles, Calif. Filed July 7, 1930.

Sunkist

For Citrus-Flavored, Nonalcoholic, Maltless Beverages Sold as Soft Drinks and Concentrates for Making the Same.
Claims use since Feb. 8, 1930.

Ser. No. 305,208. ROBERT BONNER, Valdese, N. C. Filed Sept. 2, 1930.

BONNER'S



CARTWHEEL

For Syrups and Extracts Used for the Preparation of Nonalcoholic Carbonated Beverages.
Claims use since June 1, 1928.

Ser. No. 306,055. CUSHING COCA COLA BOTTLING CO., Cushing, Okla. Filed Sept. 25, 1930.



For Carbonated, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.
Claims use since Sept. 10, 1930.

Ser. No. 306,134. R. E. GONDREZICK, Tomah, Wis. Filed Sept. 27, 1930.

MEMORIES

For Carbonated Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.
Claims use since Mar. 1, 1927.

Ser. No. 306,139. EUGENE VICTOR LOEFFLER, Mobile, Ala. Filed Sept. 27, 1930.

LONGBOY

For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups and Extracts for Making the Same.
Claims use since Jan. 4, 1927.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 263,518. RIO GRANDE VALLEY VEGETABLE GROWER'S EXCHANGE, Mercedes, Tex. Filed Mar. 20, 1928.

RED OWL

For Fresh Vegetables.
Claims use since Oct. 22, 1927.

Ser. No. 278,425. AMTORG TRADING CORPORATION, New York, N. Y. Filed Jan. 25, 1929.

iRiS

Ирис

The foreign characters appearing on the drawing spell the word "Iris" in Russian.
For Candy.
Claims use since April, 1928.

Ser. No. 278,476. MT. SIGNAL PRODUCE CO., Calexico, Calif. Filed Jan. 26, 1929.

Mt.Signal

For Fresh Melons—Namely, Cantaloupes, Honeyballs, Fresh Vegetables, Fresh Strawberries.
Claims use since January, 1928.

Ser. No. 289,652. A. M. TAKETA, Sacramento, Calif. Filed Sept. 11, 1929.

DOME

For Fresh Deciduous Fruits, Fresh Citrus Fruits, Fresh Grapes, Dried Fruits.
Claims use since Aug. 26, 1929.

Ser. No. 295,606. THE CLEVELAND PROVISION COMPANY, Cleveland, Ohio. Filed Feb. 5, 1930. Under section 5b of the act of 1905, as amended in 1920.

WILTSHIRE

Applicant is the owner of certificates Nos. 58,128 and 75,503 registered under the 10-year proviso.
For Ham, Bacon, Sausage, Meat Loaf, Souse, Pig Tongues, Beef Tongues, Beef Lips, Dried Beef, and Lard.
Claims use since 1887 on ham, bacon, and sausage; since 1915 on beef lips, beef tongues, meat loaf, pigs' tongues, lard, souse, and dried beef.

Ser. No. 297,026. E. B. MOSHIER, doing business as The Instant Products Manufacturing Company, Omaha, Nebr. Filed Mar. 8, 1930.

CHOKLA

For Milk-Chocolate Powder and Malted-Milk-Chocolate Powder.
Claims use since November, 1921.

Ser. No. 299,225. PEOPLES MILLING COMPANY, Muskegon, Mich. Filed Apr. 21, 1930.

FLUFO

For Cake Flour.
Claims use since October, 1929.

Ser. No. 300,381. WENATCHEE BEEBE ORCHARD CO., Minneapolis, Minn. Filed May 12, 1930.

ICY-PAK

For Fresh Deciduous Fruits.
Claims use since Apr. 6, 1929.

Ser. No. 300,431. NIELSEN PACKING COMPANY, San Francisco, Calif. Filed May 13, 1930.

WARRANTY

Applicant is the owner of registrations No. 179,634, Feb. 12, 1924, and No. 261,717, Sept. 24, 1929.
For Vegetable Juices for Food Beverage Purposes.
Claims use since Nov. 9, 1928.

Ser. No. 300,680. W. F. SCHRAFFT & SONS CORPORATION, Charlestown and Boston, Mass. Filed May 16, 1930.



For Chocolate Candy.
Claims use since Jan. 15, 1930.

Ser. No. 301,669. S. MARTINELLI & CO., Watsonville, Calif. Filed May 29, 1930. Under 10-year proviso.

Martinelli's
GOLD MEDAL

Applicant claims no exclusive right to the words "Gold Medal" apart from the mark as shown.
For Cider Vinegar.
Claims use since Jan. 1, 1895.

Ser. No. 302,428. CORN PRODUCTS REFINING COMPANY, New York, N. Y. Filed June 14, 1930.



Applicant is the owner of trade-mark registrations Nos. 84,852 and 85,159.
For Corn Starch.
Claims use since June 1, 1881.

Ser. No. 302,606. U. S. BEVERAGE COMPANY INC., New York, N. Y. Filed June 19, 1930.

SUN-VIEW

For Crush Fruits in Syrup for Food Purposes.
Claims use since June 7, 1930.

Ser. No. 302,988. JACOB WARREN BOWMAN, doing business as The By Gum Co., Philadelphia, Pa. Filed June 30, 1930.

BLONY

For Chewing Gum.
Claims use since June 11, 1930.

Ser. No. 303,623. BEEFEX LIMITED, London, England. Filed July 19, 1930.

BEEFEX

For Meat Extract in Liquid, Solid, or Pulverulent Form.
Claims use since Feb. 24, 1923.

Ser. No. 303,629. ROBERT EMMETT CLARK, doing business as R. E. Clark Milling Company, Chillicothe, Ohio. Filed July 19, 1930.

HomePride

For Wheat Flour.
Claims use since 1913.

Ser. No. 303,856. ORANGE BELT PACKING COMPANY, Eustis, Fla. Filed July 26, 1930.

FLYER

For Fresh Citrus Fruits.
Claims use since Oct. 1, 1929.

Ser. No. 304,153. MAC FISHERIES LIMITED, London, England. Filed Aug. 2, 1930.



The drawing is lined to indicate the colors red, yellow, and blue.
For Preserved Herrings in Sauce.
Claim use since September, 1926.

Ser. No. 304,783. OLDE HOMESTEAD PRESERVES, INC., Elmhurst, New York, N. Y. Filed Aug. 19, 1930.

Mrs. Wiley Jones'
Olde Homestead

The name "Mrs. Wiley Jones" is disclaimed except in connection with the words "Olde Homestead" as shown in the drawing.
For Peanut Butter.
Claims use since June 28, 1930.

Ser. No. 304,842. THE WEIDEMAN COMPANY, Cleveland, Ohio. Filed Aug. 20, 1930.

VI-TA-MA

For Tomato Juice.
Claims use since Aug. 6, 1930.

Ser. No. 304,885. PEEK, FREAN & CO., LTD., London, England. Filed Aug. 21, 1930.

Peek Frean's

For Biscuits and Crackers.
Claims use since 1910.

Ser. No. 304,911. DEXTORA COMPANY, Indianapolis, Ind. Filed Aug. 22, 1930.

DUFFY'S
ORANGE FLAVOR
MALTED MILK



No claim is made for the colors. No claim is made to the printed matter apart from the mark as shown in the drawing. The face forming a part of the trade-mark is fanciful.
For Orange Malted Milk.
Claims use since June 21, 1930.

Ser. No. 305,125. THE SHOTWELL MFG. CO., doing business as Shotwell's, Chicago, Ill. Filed Aug. 28, 1930.

Fruitmallows

For Marshmallows and Candy.
Claims use since May 1, 1930.

Ser. No. 305,353. THE R. T. FRENCH COMPANY, Rochester, N. Y. Filed Sept. 5, 1930.

Cin-tost

For Blended Mixture of Sugar, Cinnamon, and Other Spices for Cinnamon Toast, Pies, Puddings, Waffles, Cooked Fruits, and Other Desserts.
Claims use since Aug. 1, 1930.

Ser. No. 305,566. FUGAZZI-PINELLAS GROVE CO., Clearwater, Fla., and Cincinnati, Ohio. Filed Sept. 11, 1930.

PRIDE OF BELLAIR

For Fresh Citrus Fruits.
Claims use since December, 1929.

Ser. No. 305,697. JACOB E. DECKER & SONS, Mason City, Iowa. Filed Sept. 15, 1930.

HART-O-LOIN

Applicant disclaims the descriptive word "Loin."
For Bacon.
Claims use since Sept. 2, 1930.

Ser. No. 305,715. MANTECA CANNING COMPANY, Manteca, Calif. Filed Sept. 15, 1930.

MATTINA

For Canned Tomatoes, Canned Tomato Paste, Canned Fruit, Canned Vegetables.
Claims use since Mar. 26, 1930.

Ser. No. 305,733. WILLIAM R. THOMPSON, San Diego, Calif. Filed Sept. 15, 1930.

YUKON
WAFFLE

For Frozen Confections.
Claims use since Nov. 26, 1929.

Ser. No. 305,753. THE HILLS BROTHERS COMPANY, New York, N. Y. Filed Sept. 16, 1930.

FROSTETTES

For Granulated Cocoanut.
Claims use since Sept. 3, 1930.

Ser. No. 305,778. COEN COMPANIES, INC., Los Angeles, Calif. Filed Sept. 17, 1930.



For Edible Oils—Namely, Olive Oil.
Claims use since Nov. 1, 1929.

Ser. No. 305,797. JACOB E. DECKER & SONS, Mason City, Iowa. Filed Sept. 17, 1930.



No claim is made to the word "Decker's" or to the word "Iowa" except in association with the words "Tall Korn."
For Bacon.
Claims use since Apr. 1, 1930.

Ser. No. 305,817. ADOLF J. MAINZER, INC., New York, N. Y. Filed Sept. 18, 1930.

LACKOSEN

For Glacé for All Kinds of Tarts, Pastries, and Cakes.
Claims use since Aug. 15, 1930.

Ser. No. 305,912. GEO. F. STUHMER & CO., INC., Brooklyn, N. Y. Filed Sept. 20, 1930.



For Pumpernickel.
Claims use since June 23, 1930.

Ser. No. 305,975. ARTHUR C. MORELAND, Hope, Ark. Filed Sept. 23, 1930.



For Canned Chili with Beans and Tamales.
Claims use since Feb. 1, 1930.

Ser. No. 305,977. NEW ENGLAND CONFECTIONERY COMPANY, Cambridge, Mass. Filed Sept. 23, 1930.

MR. SWEET TOOTH

For Candy.
Claims use since Aug. 6, 1930.

Ser. No. 305,988. F. G. VOGT & SONS, INCORPORATED, Philadelphia, Pa. Filed Sept. 23, 1930.

SAVOGT

For Scrapple.
Claims use since Aug. 27, 1930.

Ser. No. 305,989. F. G. VOGT & SONS, INCORPORATED, Philadelphia, Pa. Filed Sept. 23, 1930.

SA·VO

For Scrapple.
Claims use since Aug. 27, 1930.

Ser. No. 306,005. EDSON L. HUTCHINSON, San Francisco, Calif. Filed Sept. 24, 1930.

HULA

For Cakes with Pineapple and Cocoanut Filling.
Claims use since Sept. 5, 1930.

Ser. No. 306,009. W. H. MOUSER & COMPANY, Orlando, Fla. Filed Sept. 24, 1930.

Drinkit

For Fresh Citrus Fruits.
Claims use since January, 1930.

Ser. No. 306,027. THE CAPITAL CITY PRODUCTS COMPANY, Columbus, Ohio. Filed Sept. 24, 1930.

BBS

For Partially-Hydrogenated Cottonseed Oil.
Claims use since Nov. 29, 1927.

CLASS 48

Malt Beverages and Liquors

Ser. No. 304,414. JOSEPH KWITEL, Brooklyn, N. Y. Filed Aug. 9, 1930.

Republic

For Cereal Beverages Containing Less Than One-Half (½) of One (1%) Per Cent Alcohol by Volume.
Claims use since May 3, 1930.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 304,440. VICTORY AUTO TRUNK CO., INC., New York, N. Y. Filed Aug. 9, 1930.

L

For Covering for Hand Luggage, Automobile Trunks, and Floor Covering Made of Imitation Leather.
Claims use since February, 1930.

Ser. No. 304,441. VICTORY AUTO TRUNK CO., INC., New York, N. Y. Filed Aug. 9, 1930.

V

For Covering for Hand Luggage, Automobile Trunks, and Floor Covering Made of Imitation Leather.
Claims use since February, 1930.

Ser. No. 304,527. HERBERT E. VOSBURGH, New York, N. Y. Filed Aug. 12, 1930.

Teleminder.

For Base or Stand to Support a Telephone Set and Embodying a Sliding Drawer Containing a Combination Loose-Leaf Advertising Directory and Memorandum Book.
Claims use since July 16, 1930.

Ser. No. 305,683. SILVERTONE PROCESS CORPORATION, New York, N. Y. Filed Sept. 13, 1930.

SEETO

For Matrix, Dry Mat, or Boards Used in Stereotyping or Electrotyping, and Finished Printing Plates.
Claims use since Sept. 2, 1930.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

NOVEMBER 4, 1930

276,940. ELECTRIC STREET-LIGHTING SYSTEMS, ELECTRIC-LIGHTING SYSTEMS, FOR BUILDINGS ETC. RADIOVISOR PARENT LIMITED, London, England.
Filed September 19, 1928. Serial No. 272,669. PUBLISHED AUGUST 12, 1930. Class 21.

276,941. PUDDING IN POWDERED FORM. I. ROKEACH & SONS, INC., Brooklyn, N. Y.
Filed December 5, 1928. Serial No. 276,335. PUBLISHED AUGUST 12, 1930. Class 46.

276,942. CERTAIN NAMED WEARING APPAREL. LEVY, FORMAN & CO., INC., New York, N. Y.
Filed April 9, 1930. Serial No. 298,577. PUBLISHED JULY 29, 1930. Class 39.

276,943. BENZINE, GASOLINE, KEROSENE, LUBRICATING OILS, AND LUBRICATING GREASES. WRIGHT, STEPHENSON & CO. LIMITED, Wellington, New Zealand.
Filed November 6, 1929. Serial No. 292,477. PUBLISHED JULY 29, 1930. Class 15.

276,944. COTTONSEED MEAL. THE BUCKEYE COTTON OIL COMPANY, Cincinnati, Ohio.
Filed November 21, 1929. Serial No. 292,653. PUBLISHED AUGUST 12, 1930. Class 46.

276,945. PAJAMAS. VALCO MANUFACTURING CO. INC. New York N. Y.
Filed February 14, 1929. Serial No. 279,366. PUBLISHED MAY 14, 1929. Class 39.

276,946. REFRIGERATORS. ICEBERG MANUFACTURING Co., Gardner, Mass.
Filed February 28, 1929. Serial No. 280,064. PUBLISHED AUGUST 19, 1930. Class 31.

276,947. ELECTRIC RADIO RECEIVING SETS ADAPTED FOR COMBINATION WITH ELECTRIC PHONOGRAPHS. GRIGSBY-GRUNOW COMPANY, Chicago, Ill.
Filed March 16, 1929. Serial No. 280,842. PUBLISHED JULY 9, 1929. Class 21.

276,948. FINGER RINGS, BRACELETS, NECKLACES, ETC. CAMEL'S BELL, INC., Beachwood and Cleveland, Ohio.
Filed March 23, 1929. Serial No. 281,192. PUBLISHED AUGUST 12, 1930. Class 28.

276,949. CANDIES, CANDIED FRUITS, CANDIED NUTS. PEGGY ANNE CANDY STORES, Portland, Me.
Filed March 26, 1929. Serial No. 281,371. PUBLISHED AUGUST 12, 1930. Class 46.

276,950. PAPER, PARCHMENT, AND CELLULOSE LAMP SHADES. REMBRANDT LAMP CORPORATION, Chicago, Ill.
Filed April 9, 1929. Serial No. 282,132. PUBLISHED AUGUST 12, 1930. Class 34.

276,951. GARDEN ORNAMENTS OF CAST OR WROUGHT METAL—NAMELY, FLOWER URNS AND THEIR PEDESTALS, BIRD BATHS AND THEIR PEDESTALS, AQUARIUMS AND THEIR PEDESTALS. S. CHENEY & SON, Manlius, N. Y.
Filed May 1, 1929. Serial No. 283,327. PUBLISHED AUGUST 19, 1930. Class 2.

276,952. PORTABLE ELECTRIC LAMPS. EVERLITE LIMITED, London, England.
Filed May 6, 1929. Serial No. 283,555. PUBLISHED AUGUST 12, 1930. Class 21.

276,953. PRODUCTS FOR THE PREPARATION OF WHITE-PINE-NEEDLE BATHS. WOLO, LTD., Zurich, Switzerland.
Filed May 10, 1929. Serial No. 283,833. PUBLISHED AUGUST 5, 1930. Class 6.

276,954. MOTOR-FUEL OILS. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla.
Filed May 11, 1929. Serial No. 283,892. PUBLISHED AUGUST 12, 1930. Class 15.

276,955. SPARK PLUGS. LIBERTY ENGINEERING CORP., Mount Vernon, N. Y.
Filed May 18, 1929. Serial No. 284,238. PUBLISHED AUGUST 12, 1930. Class 21.

276,956. JEWELERS' FINDINGS. W. R. COBB COMPANY, Providence, R. I.
Filed May 22, 1929. Serial No. 284,443. PUBLISHED JULY 29, 1930. Class 28.

276,957. PENS AND ARTISTS' COLORED PEN SETS. EGON VON HENTSCHEL, doing business as Nomorink Company, Los Angeles, Calif.
Filed May 23, 1929. Serial No. 284,553. PUBLISHED AUGUST 19, 1930. Class 37.

276,958. WORK AND DRESS TROUSERS. BEDFORD JOHNSON COMPANY, INC., New York, N. Y.
Filed May 27, 1929. Serial No. 284,663. PUBLISHED JULY 22, 1930. Class 39.

276,959. PEWTER ARTICLES OF HOLLOW WARE. INTERNATIONAL SILVER COMPANY, Meriden, Conn.
Filed May 27, 1929. Serial No. 284,678. PUBLISHED AUGUST 19, 1930. Class 13.

276,960. MEN'S AND BOYS' OUTER GARMENTS—NAMELY, SUITS, COATS, VESTS, AND TROUSERS. LOUIS H. MANKO, doing business as L. H. Manko & Company, and National Summer Clothing Company, Philadelphia, Pa.
Filed June 4, 1929. Serial No. 285,032. PUBLISHED JULY 29, 1930. Class 39.

276,961. LEATHER COATS AND FLYING SUITS FOR BOTH MEN AND WOMEN. GIMBEL BROTHERS, INC., New York, N. Y.
Filed June 5, 1929. Serial No. 285,080. PUBLISHED AUGUST 5, 1930. Class 39.

276,962. ELECTRIC LAMPS SUCH AS FLOOR LAMPS, TABLE LAMPS, ETC. HILAM, INCORPORATED, Milwaukee, Wis.
Filed June 12, 1929. Serial No. 285,458. PUBLISHED AUGUST 12, 1930. Class 21.

276,963. POWDER CREAM, FACE AND DUSTING POWDERS, ETC. SUZANNE'S BEAUTY PREPARATIONS, INC., Philadelphia, Pa.
Filed June 21, 1929. Serial No. 285,948. PUBLISHED AUGUST 12, 1930. Class 6.

276,964. POWDER CREAM, FACE AND DUSTING POWDER. SUZANNE'S BEAUTY PREPARATIONS, INC., Philadelphia, Pa.
Filed June 21, 1929. Serial No. 285,949. PUBLISHED AUGUST 12, 1930. Class 6.

276,965. MEDICATED CORN PLASTERS AND MEDICATED POROUS PLASTERS. ALLCOCK MANUFACTURING CO., Ossining, N. Y.
Filed June 24, 1929. Serial No. 286,013. PUBLISHED AUGUST 5, 1930. Class 6.

276,966. CARBONATED, MALTLESS, NONALCOHOLIC BEVERAGE SOLD AS A SOFT DRINK. ARROWHEAD SPRINGS BEVERAGE CO., Los Angeles, Calif.
Filed July 1, 1929. Serial No. 286,409. PUBLISHED AUGUST 13, 1929. Class 45.

276,967. CANDLES. THE KROGER GROCERY & BAKING Co., Cincinnati, Ohio.
Filed August 5, 1929. Serial No. 288,133. PUBLISHED JULY 29, 1930. Class 15.

276,968. PROPRIETARY MEDICINE USED IN THE TREATMENT OF SIMPLE HEADACHES, COLDS, NEURALGIA, MUSCULAR ACHES AND PAINS, AND ORDINARY FEVER. BEACH CHEMICAL COMPANY, INCORPORATED, St. Louis, Mo.
Filed August 22, 1929. Serial No. 288,834. PUBLISHED OCTOBER 8, 1929. Class 6.

276,969. MOISTUREPROOF PAPER FOR PACKAGING PURPOSES. THOMAS F. PINDER, Camden, N. J.
Filed August 31, 1929. Serial No. 289,247. PUBLISHED AUGUST 19, 1930. Class 37.

276,970. CANDY BAR. THE SHOTWELL MFG. CO., Chicago, Ill.
Filed September 7, 1929. Serial No. 289,479. PUBLISHED AUGUST 12, 1930. Class 46.

276,971. SYRUP FOR COUGHS AND COLDS. THE MERITOL CORPORATION, Des Moines, Iowa.
Filed September 23, 1929. Serial No. 290,139. PUBLISHED AUGUST 5, 1930. Class 6.

276,972. LUBRICATING OILS AND GREASES, GASOLINE, GAS OIL, AND KEROSENE. MOTOL, INC., New York, N. Y., assignor to Old Guard Lubricants, Inc., of New York, N. Y., a Corporation of New York.
Filed October 15, 1929. Serial No. 291,097. PUBLISHED AUGUST 12, 1930. Class 15.

276,973. FIRE HYDRANTS, STREET-WASHER HYDRANTS, WALL HYDRANTS, ETC. JOHN C. KUPFERLE FOUNDRY COMPANY, St. Louis, Mo.
Filed October 18, 1929. Serial No. 291,227. PUBLISHED AUGUST 12, 1930. Class 13.

276,974. ELECTRICAL RELAYS FOR PERIODICALLY SETTING CLOCKS IN CIRCUIT THEREWITH IN ACCORDANCE WITH RADIO TIME SIGNALS. TORK CLOCKS, INC., New York, N. Y.
Filed October 18, 1929. Serial No. 291,250. PUBLISHED JULY 29, 1930. Class 21.

276,975. MEN'S AND BOYS' DRESS, NEGLIGEE, SPORT, AND WORK SHIRTS AND ATHLETIC GOODS—NAMELY, ATHLETIC OUTER SHIRTS. NIRENBERG & SALZMAN, INC., New York, N. Y.
Filed October 22, 1929. Serial No. 291,401. PUBLISHED AUGUST 5, 1930. Class 39.

276,976. COATS, SUITS, DRESSES, BLOUSES, AND HOSIERY FOR WOMEN, MISSES, AND CHILDREN. ANGERMAN CO., INC., New York, N. Y.
Filed October 25, 1929. Serial No. 291,547. PUBLISHED JULY 29, 1930. Class 39.

276,977. BRASS SWIVELS AND BRASS RINGS. H. A. B. SNEVE, doing business as H. A. B. Sneve Company, San Francisco, Calif.
Filed November 1, 1929. Serial No. 291,893. PUBLISHED AUGUST 19, 1930. Class 13.

276,978. CLOAKS, JACKETS, BLOUSES, ETC. SOCIETE WORTH, Paris, France, assignor to Worth, Societe Anonyme, of Paris, France, a Joint-Stock Company.
Filed April 8, 1925. Serial No. 212,406. PUBLISHED JULY 22, 1930. Class 39.

276,979. ALCOHOLIC CORDIAL. DAVIDE CAMPARI, Milan, Italy.
Filed April 5, 1926. Serial No. 229,661. PUBLISHED AUGUST 19, 1930. Class 49.

276,980. MACHINERY BELTING, DIAPHRAGMS, DISCS, ETC. GRATON & KNIGHT COMPANY, Worcester, Mass.
Filed July 2, 1930. Serial No. 303,050. PUBLISHED AUGUST 19, 1930. Class 35.

276,981. TOILET AND SHAVING SOAP. COLGATE-PALMOLIVE-PEET COMPANY, Chicago, Ill.
Filed June 30, 1930. Serial No. 302,994. PUBLISHED AUGUST 19, 1930. Class 4.

276,982. CHEMICALIZED OILS FOR MIXING WITH PAINTS. COMMERCIAL CHEMICALS CORPORATION, Philadelphia, Pa.
Filed June 28, 1930. Serial No. 302,981. PUBLISHED AUGUST 19, 1930. Class 16.

276,983. FUR-FELT BANDING. S. L. STERN & CO., INC., New York, N. Y.
Filed June 27, 1930. Serial No. 302,915. PUBLISHED AUGUST 19, 1930. Class 50.

276,984. HOUSEHOLD FURNITURE. WHITEWASHED STABLE FURNITURE COMPANY, INC., Brooklyn, N. Y.
Filed June 25, 1930. Serial No. 302,845. PUBLISHED AUGUST 19, 1930. Class 32.

276,985. LADIES' HATS. ROSS-CORDES, LTD., Los Angeles, Calif.
Filed June 25, 1930. Serial No. 302,833. PUBLISHED AUGUST 12, 1930. Class 39.

276,986. CORSETS, BRASSIÈRES, GIRDLES, AND GARTER BELTS. LOUIS BRILL, doing business as Brill Corset Co., Philadelphia, Pa.
Filed June 25, 1930. Serial No. 302,808. PUBLISHED AUGUST 12, 1930. Class 39.

276,987. BRAKE LININGS COMPOSED OF ASBESTOS AND COTTON. KNERR & BORTZ, Mount Airy, Philadelphia, Pa.
Filed June 24, 1930. Serial No. 302,778. PUBLISHED AUGUST 19, 1930. Class 35.

276,988. TERRAZZO-SURFACING MACHINES, FLOOR-SURFACING MACHINES, ETC. ADVANCE MACHINE COMPANY, INC., Minneapolis, Minn.
Filed June 23, 1930. Serial No. 302,718. PUBLISHED AUGUST 19, 1930. Class 23.

276,989. CERTAIN NAMED PAINT PRODUCTS. IMPERVIOUS VARNISH COMPANY, Pittsburgh, Pa.
Filed June 20, 1930. Serial No. 302,634. PUBLISHED AUGUST 19, 1930. Class 16.

276,990. FUR COATS, WRAPS, THROWS, ETC. POLAR FUR COMPANY, Seattle, Wash.
Filed June 18, 1930. Serial No. 302,549. PUBLISHED AUGUST 19, 1930. Class 39.

276,991. GLOVES MADE OF FABRIC AND COMBINATIONS OF LEATHER AND FABRIC. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y.
Filed June 18, 1930. Serial No. 302,527. PUBLISHED AUGUST 12, 1930. Class 39.

276,992. PROTECTOR FOR HEELS AND COUNTERS FOR SHOES. POLLARD SLIPSHELL COMPANY, Newburyport, Mass.
Filed June 16, 1930. Serial No. 302,472. PUBLISHED AUGUST 19, 1930. Class 39.

276,993. FERTILIZER-DISPENSING APPARATUS AND PARTS THEREOF. VEX SALES CORPORATION, Chicago, Ill.
Filed June 9, 1930. Serial No. 302,293. PUBLISHED AUGUST 19, 1930. Class 23.

276,994. KNITTED BERETS. SIMON ASCHER & CO., INC., New York, N. Y.
Filed June 6, 1930. Serial No. 302,208. PUBLISHED AUGUST 12, 1930. Class 39.

276,995. WATER COLORS, OIL COLORS, POSTER COLORS. BRIL-TONE PRODUCTS, INC., Chicago, Ill.
Filed May 31, 1930. Serial No. 301,798. PUBLISHED AUGUST 19, 1930. Class 16.

276,996. SEMICORROSION-RESISTING STEEL IN THE FORM OF WIRE, BARS, SHEETS, PLATES, BILLETS, SLABS, AND FORGINGS. CRUCIBLE STEEL COMPANY OF AMERICA, New York, N. Y.
Filed May 28, 1930. Serial No. 301,410. PUBLISHED AUGUST 19, 1930. Class 14.

276,997. LIMEPROOF COLORS AND WALL COATINGS IN THE NATURE OF PAINT. UNITED STATES GYPSUM COMPANY, Chicago, Ill.
Filed May 26, 1930. Serial No. 301,315. PUBLISHED AUGUST 19, 1930. Class 16.

276,998. PERMANENT HAIR-WAIVING MACHINES. HARRY'S BEAUTY PARLOR INC., Brooklyn, N. Y.
Filed May 24, 1930. Serial No. 301,173. PUBLISHED AUGUST 19, 1930. Class 44.

276,999. METAL POLISH. INDUSTRIAL LABORATORIES, INC., Baltimore, Md.
Filed May 22, 1930. Serial No. 301,035. PUBLISHED AUGUST 19, 1930. Class 4.

277,000. DIRECTORY. THE SPORTING GOODS PUBLISHING COMPANY, St. Louis, Mo.; New York, N. Y.; and Chicago, Ill.
Filed June 19, 1930. Serial No. 302,603. PUBLISHED AUGUST 19, 1930. Class 38.

277,001. HEADING FOR ITS NEWSPAPER. THE NEWS LEADER COMPANY, Richmond, Va.
Filed June 2, 1930. Serial No. 302,135. PUBLISHED AUGUST 19, 1930. Class 38.

277,002. BRASSIÈRES AND CORSETS. ABRAHAM ZWIEBELSON, New York, N. Y.
Filed May 31, 1930. Serial No. 302,127. PUBLISHED AUGUST 19, 1930. Class 39.

277,003. BRASSIÈRES AND CORSETS. ABRAHAM ZWIEBELSON, New York, N. Y.
Filed May 31, 1930. Serial No. 302,122. PUBLISHED AUGUST 19, 1930. Class 39.

277,004. CERTAIN NAMED FOOTWEAR. WOODBURY SHOE MFG. CO., Derry, N. H.
Filed May 31, 1930. Serial No. 302,114. PUBLISHED JULY 29, 1930. Class 39.

277,005. COMIC STRIPS. HARRY J. TUTHILL, Ferguson, Mo.
Filed May 31, 1930. Serial No. 302,095. PUBLISHED AUGUST 19, 1930. Class 38.

277,006. PERIODICAL. FREDERICK, P. PITZER, Jersey City, N. J.
Filed May 31, 1930. Serial No. 302,010. PUBLISHED AUGUST 19, 1930. Class 38.

277,007. SHOES MADE OF COMBINATIONS OF LEATHER AND FABRIC, AND HOSIERY. I. MILLER & SONS, INCORPORATED, Long Island City, N. Y.
Filed May 31, 1930. Serial No. 301,985. PUBLISHED AUGUST 19, 1930. Class 39.

277,008. WOMEN'S, MISSES', AND CHILDREN'S FELT, STRAW, AND CLOTH HATS. INTERNATIONAL MILLINERY CO. INC., New York, N. Y.
Filed May 31, 1930. Serial No. 301,929. PUBLISHED JULY 29, 1930. Class 39.

277,009. PERIODICAL. THE INSTITUTION PUBLISHING COMPANY, INC., New York, N. Y.
Filed May 31, 1930. Serial No. 301,927. PUBLISHED AUGUST 19, 1930. Class 38.

277,010. BRASSIÈRES, GIRDLES, AND COMBINATION BRASSIÈRES AND CORSETS MADE OF TEXTILE, NETTED, KNITTED, ELASTIC, AND ALL-RUBBER FABRIC. FAIRY BRASSIERE CO., INC., New York, N. Y.
Filed May 31, 1930. Serial No. 301,870. PUBLISHED JULY 29, 1930. Class 39.

277,011. LADIES' AND MISSES' HATS. CHARLES LITT, doing business as Litt Hat Company, Chicago, Ill.
Filed May 29, 1930. Serial No. 301,663. PUBLISHED JULY 29, 1930. Class 39.

277,012. LADIES' SHOES OF LEATHER OR CLOTH. JOHNSON-STEPHENS & SHINKLE SHOE COMPANY, St. Louis, Mo.
Filed May 29, 1930. Serial No. 301,657. PUBLISHED AUGUST 19, 1930. Class 39.

277,013. PERIODICAL. WILLIAM M. CLAYTON, New York, N. Y.
Filed May 29, 1930. Serial No. 301,581. PUBLISHED AUGUST 19, 1930. Class 38.

277,014. PERIODICAL. WILLIAM M. CLAYTON, New York, N. Y.
Filed May 29, 1930. Serial No. 301,580. PUBLISHED AUGUST 19, 1930. Class 38.

277,015. PERIODICAL PUBLICATIONS. WOMEN'S CHICAGO BEAUTIFUL ASSOCIATION, Chicago, Ill., assignor to Wade E. Griswold, Chicago, Ill.
Filed May 28, 1930. Serial No. 301,544. PUBLISHED AUGUST 19, 1930. Class 38.

277,016. RAINCOATS OF RUBBER AND FABRIC. UNITED STATES RUBBER COMPANY, New York, N. Y.
Filed May 23, 1930. Serial No. 301,136. PUBLISHED AUGUST 12, 1930. Class 39.

277,017. BRASSIÈRES, GIRDLES, AND GARTER BELTS. MAIDEN FORM BRASSIERE CO. INC., New York, N. Y.
Filed May 22, 1930. Serial No. 301,044. PUBLISHED AUGUST 5, 1930. Class 39.

277,018. MEN'S, WOMEN'S, AND CHILDREN'S CAPS. DANIEL J. CREMEN, doing business as White Cap Co., Blackwood, N. J.
Filed May 22, 1930. Serial No. 301,015. PUBLISHED AUGUST 12, 1930. Class 39.

277,019. PERIODICAL. MANAGEMENT MAGAZINES, INC., Chicago, Ill.
Filed June 19, 1930. Serial No. 302,609. PUBLISHED AUGUST 19, 1930. Class 38.

277,020. KNITTED SPORT WEAR—NAMELY, SWEATERS, BEACH COATS, AND BATHING SUITS. LEE KNITTING MILLS, INC., Brooklyn, N. Y.
Filed June 28, 1930. Serial No. 302,951. PUBLISHED AUGUST 12, 1930. Class 39.

277,021. HOSIERY. INFANTS SOCKS, INC., New York, N. Y.
Filed June 21, 1930. Serial No. 302,686. PUBLISHED AUGUST 12, 1930. Class 39.

277,022. OLIVE OIL. UNITED ITALIAN CO-OPERATIVES, INC., Union City, N. J.
Filed June 20, 1930. Serial No. 302,660. PUBLISHED AUGUST 19, 1930. Class 46.

277,023. BIAS TAPE. SAMSTAG & HILDER BROS., INC., New York, N. Y.
Filed June 20, 1930. Serial No. 302,645. PUBLISHED AUGUST 12, 1930. Class 40.

277,024. WOODEN FENCES. ROBERT C. REEVES CO., New York, N. Y.
Filed June 19, 1930. Serial No. 302,610. PUBLISHED AUGUST 12, 1930. Class 12.

277,025. SPORT PANTS FOR BOYS, YOUTHS, GIRLS, AND MISSES. S. ROSENBLOOM, Baltimore, Md.
Filed June 16, 1930. Serial No. 302,480. PUBLISHED AUGUST 19, 1930. Class 39.

277,026. HONEYDEW MELONS, CARROTS, CABBAGE, ETC. JOSEPH DI SANTO, doing business as Di Santo & Co., Duluth, Minn.
Filed June 16, 1930. Serial No. 302,459. PUBLISHED AUGUST 19, 1930. Class 46.

277,027. CHILDREN'S PLAY SUITS AND ROMPERS. GORDON-EAST COAST COMPANY, Moundsville, W. Va.
Filed June 13, 1930. Serial No. 302,384. PUBLISHED AUGUST 12, 1930. Class 39.

277,028. CHILDREN'S PLAY SUITS AND ROMPERS. GORDON-EAST COAST COMPANY, Moundsville, W. Va.
Filed June 13, 1930. Serial No. 302,383. PUBLISHED AUGUST 12, 1930. Class 39.

277,029. HOSIERY. HARRON HOSIERY COMPANY, Philadelphia, Pa.
Filed June 12, 1930. Serial No. 302,348. PUBLISHED AUGUST 12, 1930. Class 39.

277,030. WOMEN'S, MEN'S, AND CHILDREN'S HOSIERY. J. S. REEVES & CO., INC., Nashville, Tenn.
Filed June 11, 1930. Serial No. 302,333. PUBLISHED AUGUST 12, 1930. Class 39.

277,031. FOOD FLAVORING EXTRACTS, AS FOLLOWS: VANILLA, ESSENCE OF LEMON, STRAWBERRY, PINEAPPLE, AND ORANGE. JAMES W. SPENCER, doing business as Consolidated Drug Corp., New Orleans, La., assignor to Consolidated Drug Corporation, New Orleans, La., a Corporation of Louisiana.
Filed June 7, 1930. Serial No. 302,259. PUBLISHED AUGUST 19, 1930. Class 46.

277,032. DRESS SHIELDS. A. STEIN & COMPANY, Chicago, Ill.
Filed June 3, 1930. Serial No. 302,155. PUBLISHED AUGUST 19, 1930. Class 40.

277,033. LUMBER. COLUMBIA RIVER PAPER MILLS, Vancouver, Wash.
Filed June 2, 1930. Serial No. 302,132. PUBLISHED AUGUST 12, 1930. Class 12.

277,034. BUTTONS NOT MADE OF PRECIOUS METAL. COLT'S PATENT FIRE ARMS MANUFACTURING CO., Hartford, Conn.
Filed May 31, 1930. Serial No. 301,851. PUBLISHED AUGUST 12, 1930. Class 40.

277,035. BUTTONS NOT MADE OF PRECIOUS METAL. COLT'S PATENT FIRE ARMS MANUFACTURING CO., Hartford, Conn.
Filed May 31, 1930. Serial No. 301,850. PUBLISHED AUGUST 12, 1930. Class 40.

277,036. CANNED MALT SYRUP FOR FOOD PURPOSES. GUSTAV TIEFENTHALER, St. Louis, Mo.
Filed May 29, 1930. Serial No. 301,728. PUBLISHED AUGUST 19, 1930. Class 46.

277,037. CANNED VEGETABLES, TOMATO PURÉE, SAUERKRAUT, ETC. STOKELY BROTHERS & COMPANY, Louisville, Ky.
Filed May 29, 1930. Serial No. 301,724. PUBLISHED AUGUST 19, 1930. Class 46.

277,038. WOMEN'S, MISSES', AND CHILDREN'S FELT, STRAW, AND CLOTH HATS. INTERNATIONAL MILLINERY CO. INC., New York, N. Y.
Filed May 29, 1930. Serial No. 301,652. PUBLISHED JULY 29, 1930. Class 39.

277,039. WOMEN'S, MISSES', AND CHILDREN'S FELT, STRAW, AND CLOTH HATS. INTERNATIONAL MILLINERY CO. INC., New York, N. Y.
Filed May 29, 1930. Serial No. 301,649. PUBLISHED JULY 29, 1930. Class 39.

277,040. WOMEN'S, MISSES', AND CHILDREN'S FELT, STRAW, AND CLOTH HATS. INTERNATIONAL MILLINERY CO. INC., New York, N. Y.
Filed May 29, 1930. Serial No. 301,648. PUBLISHED JULY 29, 1930. Class 39.

277,041. WOMEN'S, MISSES', AND CHILDREN'S FELT, STRAW, AND CLOTH HATS. INTERNATIONAL MILLINERY CO. INC., New York, N. Y.
Filed May 29, 1930. Serial No. 301,647. PUBLISHED AUGUST 19, 1930. Class 39.

277,042. BOOTS, SHOES, OR SLIPPERS CONSTRUCTED OF LEATHER OR PARTLY OF LEATHER AND/OR OTHER FABRIC HAVING LEATHER SOLES. ENDICOTT JOHNSON CORPORATION, Endicott, N. Y.
Filed May 29, 1930. Serial No. 301,605. PUBLISHED AUGUST 12, 1930. Class 39.

277,043. OLIVE OIL. JOHN DE LORENZO, Clifton, N. J.
Filed May 29, 1930. Serial No. 301,595. PUBLISHED AUGUST 19, 1930. Class 46.

277,044. MEN'S HATS. THE R. CINELLI HAT CO., INC., New York, N. Y.
Filed May 29, 1930. Serial No. 301,579. PUBLISHED JULY 29, 1930. Class 39.

277,045. CORSETS, BRASSIÈRES, AND COMBINED CORSETS AND BRASSIÈRES. ASSOCIATED APPAREL INDUSTRIES, INC., Chicago, Ill.
Filed May 29, 1930. Serial No. 301,551. PUBLISHED JULY 29, 1930. Class 39.

277,046. BATHING SUITS, SWIMMING SUITS, AND MEN'S, WOMEN'S, AND CHILDREN'S KNITTED UNDERWEAR. WEST COAST KNITTING MILLS, Los Angeles, Calif.
Filed May 28, 1930. Serial No. 301,540. PUBLISHED AUGUST 19, 1930. Class 39.

277,047. HARDWOOD FLOORING. HERMAN H. HETTLER LUMBER CO., Chicago, Ill.
Filed May 28, 1930. Serial No. 301,486. PUBLISHED AUGUST 19, 1930. Class 12.

277,048. LADIES', MISSES', AND CHILDREN'S OUTER COATS. ISIDOR SILVERSTEIN, INC., New York, N. Y.
Filed May 27, 1930. Serial No. 301,367. PUBLISHED AUGUST 12, 1930. Class 39.

277,049. FOOTWEAR—NAMELY, SHOES, BOOTS, SANDALS, SOCKS, AND PARTS THEREOF OF LEATHER, RUBBER, FABRIC, COMPOSITION OR COMPOSITIONS OF SUCH MATERIALS. THE MERRIMACK SHOE MFG. CO., Lowell, Mass.
Filed May 27, 1930. Serial No. 301,353. PUBLISHED JULY 29, 1930. Class 39.

277,050. BREAST BANDEAUX. EARL S. CALDOR, doing business as Packaine French Bandeaux Co., New York, N. Y.
Filed May 27, 1930. Serial No. 301,332. PUBLISHED AUGUST 12, 1930. Class 39.

277,051. WOMEN'S WASH FROCKS. OSAM MANUFACTURING COMPANY, St. Louis, Mo.
Filed May 26, 1930. Serial No. 301,288. PUBLISHED AUGUST 5, 1930. Class 39.

277,052. PAPRIKA AND OTHER SPICES AND PREPARED MUSTARD. THE R. T. FRENCH COMPANY, Rochester, N. Y.
Filed May 28, 1930. Serial No. 301,102. PUBLISHED AUGUST 19, 1930. Class 46.

277,053. BOOTS AND SHOES OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF. IDEAL SHOE MANUFACTURING CO., Milwaukee, Wis.
Filed May 21, 1930. Serial No. 300,946. PUBLISHED JULY 29, 1930. Class 39.

277,054. BOOTS AND SHOES AND SANDALS CONSTRUCTED OF LEATHER, RUBBER, OR FABRIC OR A COMBINATION OF THOSE SEVERAL MATERIALS. SHAFT-PIERCE SHOE COMPANY, Faribault, Minn.
Filed May 19, 1930. Serial No. 300,817. PUBLISHED AUGUST 19, 1930. Class 39.

277,055. CANTON-FLANNEL WORK GLOVE. KELLER GLOVE MANUFACTURING CO. INC., Plumsteadville, Pa.
Filed May 16, 1930. Serial No. 300,632. PUBLISHED AUGUST 5, 1930. Class 39.

277,056. CERTAIN NAMED WEARING APPAREL. LE ROY BRASSIERE CO., INC., New York, N. Y.
Filed May 3, 1930. Serial No. 299,917. PUBLISHED AUGUST 12, 1930. Class 39.

277,057. DRESS, NEGLIGEE, WORK, AND UNDER SHIRTS; CAPS AND NECKTIES, MEN'S UNDERWEAR; LINGERIE—NAMELY, CHEMISES, STEPINS, BLOOMERS, AND RAYON UNION SUITS; AND HOSIERY FOR MEN, WOMEN, AND CHILDREN. THE AMERICAN PRODUCTS CO., Cincinnati, Ohio.
Filed April 30, 1930. Serial No. 299,668. PUBLISHED JULY 29, 1930. Class 39.

277,058. NEEDLES USED FOR THE PLACING OR ATTACHING BY HAND OF TAGS UPON MERCHANDISE. ABRAHAM SPECTOR, Philadelphia, Pa.
Filed April 24, 1930. Serial No. 299,413. PUBLISHED AUGUST 12, 1930. Class 40.

277,059. HATS FOR MEN, WOMEN, AND/OR CHILDREN. KLEIN & COMPANY, Newark, N. J.
Filed April 22, 1930. Serial No. 299,268. PUBLISHED JULY 29, 1930. Class 39.

277,060. PUBLICATION PRINTED QUARTERLY. FARMER'S MARKET BULLETIN COMPANY, Des Moines, Iowa.
Filed May 21, 1930. Serial No. 300,937. PUBLISHED AUGUST 19, 1930. Class 38.

277,061. CUT-OFF MACHINES AND PARTS THEREOF FOR CUTTING ALL KINDS OF MATERIAL, SUCH AS STEEL ALLOYS, NONFERROUS METALS, TUBING, SQUARES, IRREGULAR ANGLES AND FIBROUS MATERIALS. ALBERT P. DE SANNO, Jr., doing business as A. P. De Sanno and Son, Philadelphia, Pa.
Filed May 21, 1930. Serial No. 300,932. PUBLISHED AUGUST 19, 1930. Class 23.

277,062. PUMPS AND UNITARY WATER SYSTEMS COMPRISING A PUMP, A TANK, AND THE NECESSARY PIPE AND FITTINGS. FORT WAYNE ENGINEERING & MANUFACTURING CO., Fort Wayne, Ind.
Filed May 19, 1930. Serial No. 300,791. PUBLISHED AUGUST 19, 1930. Class 23.

277,063. POWER-OPERATED EXCAVATING DIPPERS AND PARTS THEREOF. AMERICAN MANGANESE STEEL COMPANY, Chicago Heights, Ill.
Filed May 19, 1930. Serial No. 300,771. PUBLISHED AUGUST 19, 1930. Class 23.

277,064. CERTAIN NAMED DENTAL GOODS. J. F. JELENKO & CO., INC., New York, N. Y.
Filed April 23, 1930. Serial No. 299,323. PUBLISHED AUGUST 19, 1930. Class 44.

277,065. GAUGES, THERMOMETERS, ELECTRICAL HEAT-MEASURING DEVICES, ETC. MOTO METER GAUGE & EQUIPMENT CORPORATION, Long Island City, N. Y.
Filed April 18, 1930. Serial No. 299,079. PUBLISHED AUGUST 19, 1930. Class 26.

277,066. UNWROUGHT AND PARTLY-WROUGHT COPPER, IRON, AND STEEL AND ALLOYS THEREOF USED IN MANUFACTURE. P-M-G METAL TRUST LIMITED, London, England.
Filed March 18, 1930. Serial No. 297,496. PUBLISHED AUGUST 19, 1930. Class 14.

277,067. MOTION-PICTURE CAMERAS AND PROJECTORS. THE KODEL ELECTRIC & MANUFACTURING COMPANY, Cincinnati, Ohio.
Filed March 18, 1930. Serial No. 297,485. PUBLISHED AUGUST 19, 1930. Class 26.

277,068. GRAVEL EQUIPMENT. PIONEER GRAVEL EQUIPMENT MFG. CO., Minneapolis, Minn.
Filed March 3, 1930. Serial No. 296,769. PUBLISHED AUGUST 19, 1930. Class 23.

277,069. DINING SETS IN COMBINATION WITH BUFFETS, DRESSERS, KITCHEN CABINETS, AND THE LIKE; AND FOLDING TABLES, COLLAPSIBLE BENCHES, AND CHAIRS. A. C. DINETTE CORP., Topeka, Kans.
Filed March 3, 1930. Serial No. 296,732. PUBLISHED AUGUST 12, 1930. Class 32.

277,070. POLISHING WHEELS. ADVANCE POLISHING WHEELS, INC., Chicago, Ill.
Filed February 25, 1930. Serial No. 296,468. PUBLISHED AUGUST 19, 1930. Class 4.

277,071. ENGINE MUFFLERS AND SPARE PARTS. THE PIERCE-ARROW MOTOR CAR COMPANY, Buffalo, N. Y.
Filed February 14, 1930. Serial No. 296,025. PUBLISHED APRIL 1, 1930. Class 23.

277,072. ENGINE MUFFLERS AND SPARE PARTS. THE PIERCE-ARROW MOTOR CAR COMPANY, Buffalo, N. Y.
Filed February 14, 1930. Serial No. 296,024. PUBLISHED APRIL 1, 1930. Class 23.

277,073. FOOT RESTS. HAZLETON MANUFACTURING COMPANY, Hazleton, Pa.
Filed January 3, 1930. Serial No. 294,354. PUBLISHED AUGUST 19, 1930. Class 32.

277,074. PUBLICATION ISSUED FROM TIME TO TIME. INTERNATIONAL ASSOCIATION OF MUNICIPAL ELECTRICIANS, Orlando, Fla.
Filed January 2, 1930. Serial No. 294,306. PUBLISHED AUGUST 19, 1930. Class 38.

277,075. POCKETKNIVES AND HUNTING KNIVES. CATTARAUGUS CUTLERY COMPANY, Little Valley, N. Y.
Filed December 21, 1929. Serial No. 293,957. PUBLISHED AUGUST 12, 1930. Class 23.

277,076. PERIODICAL PUBLICATIONS. KNIGHTS OF WASHINGTON, Detroit, Mich.
Filed December 14, 1929. Serial No. 293,668. PUBLISHED AUGUST 19, 1930. Class 38.

277,077. RESILIENT VEHICLE TIRES AND TUBES OF RUBBER COMPOSITION OR RUBBER AND FABRIC. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio.
Filed December 5, 1929. Serial No. 293,267. PUBLISHED AUGUST 12, 1930. Class 35.

277,078. PNEUMATIC PAINTING AND INDUSTRIAL SURFACE-FINISHING EQUIPMENT AND PARTS THEREOF. SPRACO, INC., Somerville, Mass.
Filed November 29, 1929. Serial No. 293,079. PUBLISHED AUGUST 19, 1930. Class 23.

277,079. PNEUMATIC PAINTING AND INDUSTRIAL SURFACE-FINISHING EQUIPMENT AND PARTS THEREOF. SPRACO, INC., Somerville, Mass.
Filed November 29, 1929. Serial No. 293,078. PUBLISHED AUGUST 19, 1930. Class 23.

277,080. BOOTS, SHOES, AND SLIPPERS OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF. J. M. CONNELL SHOE CO., South Braintree, Mass.
Filed November 27, 1929. Serial No. 292,980. PUBLISHED AUGUST 5, 1930. Class 39.

277,081. NAPHTHA FOR SPECIFIED USES IN THE PAINT TRADE. AMERICAN MINERAL SPIRITS CO., Chicago, Ill.
Filed November 22, 1929. Serial No. 292,705. PUBLISHED AUGUST 19, 1930. Class 16.

277,082. KITCHEN AND HOUSEHOLD TOOLS OR UTENSILS. THE WASHBURN COMPANY, Worcester, Mass.
Filed November 18, 1929. Serial No. 292,562. PUBLISHED AUGUST 12, 1930. Class 23.

277,083. CERTAIN NAMED CORSET WEAR. PARAMOUNT CORSET CO., Worcester, Mass.
Filed November 13, 1929. Serial No. 292,367. PUBLISHED AUGUST 19, 1930. Class 39.

277,084. PIES, ROLLS, BUNS, ETC. GENERAL BAKING COMPANY, New York, N. Y.
Filed October 26, 1929. Serial No. 291,613. PUBLISHED JULY 1, 1930. Class 46.

277,085. CLOCKS AND WATCHES AND THEIR PARTS AND ACCESSORIES. KABUSHIKI KAISHA KONISHI KOTAKUDO, Tokyo, Japan.
Filed October 12, 1929. Serial No. 291,008. PUBLISHED AUGUST 19, 1930. Class 27.

277,086. CLOCKS AND WATCHES AND THEIR PARTS AND ACCESSORIES. KABUSHIKI KAISHA KONISHI KOTAKUDO, Tokyo, Japan.
Filed October 12, 1929. Serial No. 291,007. PUBLISHED AUGUST 19, 1930. Class 27.

277,087. KNICKERS AND LONG TROUSERS. SHARP BROTHERS, Philadelphia, Pa.
Filed October 4, 1929. Serial No. 290,671. PUBLISHED JULY 29, 1930. Class 39.

277,088. SHOVELS, SPADES, AND SCOOPS. THE PITTSBURGH SHOVEL COMPANY, Pittsburgh, Pa.
Filed October 2, 1929. Serial No. 290,522. PUBLISHED AUGUST 19, 1930. Class 23.

277,089. KITCHEN AND HOUSEHOLD TOOLS OR UTENSILS. THE WASHBURN COMPANY, Worcester, Mass.
Filed September 24, 1929. Serial No. 290,203. PUBLISHED AUGUST 12, 1930. Class 23.

277,090. SAFETY AND BOND PAPER. AMERICAN BANK STATIONERY COMPANY, Baltimore, Md.
Filed August 29, 1929. Serial No. 289,141. PUBLISHED AUGUST 12, 1930. Class 37.

277,091. HOUSE DRESSES FOR WOMEN, AND APRONS. SHERMAN MANUFACTURING CO., Orange, N. J.
Filed August 15, 1929. Serial No. 288,570. PUBLISHED AUGUST 19, 1930. Class 39.

277,092. BOOTS AND SHOES OF LEATHER AND COMBINATIONS OF LEATHER, FABRIC, AND RUBBER. SAMUEL SHAPIRO, doing business as Braintree Shoe Company, South Braintree, Mass.
Filed December 20, 1929. Serial No. 293,935. PUBLISHED AUGUST 5, 1930. Class 39.

277,093. CIGARS, CIGARETTES, AND SMOKING TOBACCO. AMERICAN CIGAR COMPANY, New York, N. Y.
Filed December 7, 1929. Serial No. 293,358. PUBLISHED FEBRUARY 18, 1930. Class 17.

277,094. WEARING APPAREL—NAMELY, MEN'S AND BOYS' SUITS AND COATS. CAMBRAY CLOTHES INC., Syracuse, N. Y.
Filed May 20, 1930. Serial No. 300,855. PUBLISHED AUGUST 19, 1930. Class 39.

277,095. UNDERWEAR FOR MEN, WOMEN, AND CHILDREN. THE OPPENHEIMER-STRAUS COMPANY, Cincinnati, Ohio, assignor to Phoenix Hosiery Company, Milwaukee, Wis., a Corporation of Wisconsin.
Filed May 17, 1930. Serial No. 300,742. PUBLISHED AUGUST 5, 1930. Class 39.

277,096. CANNED VEGETABLES—NAMELY, CORN, CARROTS AND PEAS, PEAS, BEETS, DICED CARROTS, CUT GREEN BEANS, CUT WAX BEANS, ASSORTED VEGETABLES, AND SAUERKRAUT. THE KRIER PRESERVING CO., Belgium, Wis.
Filed May 16, 1930. Serial No. 300,635. PUBLISHED AUGUST 19, 1930. Class 46.

277,097. CANNED VEGETABLES. THE KRIER PRESERVING CO., Belgium, Wis.
Filed May 16, 1930. Serial No. 300,634. PUBLISHED AUGUST 19, 1930. Class 46.

277,098. CHILDREN'S SWEATERS. S. AUGSTEIN & CO., New York, N. Y.
Filed May 13, 1930. Serial No. 300,396. PUBLISHED AUGUST 12, 1930. Class 39.

277,099. CHILDREN'S SWEATERS. S. AUGSTEIN & CO., New York, N. Y.
Filed May 13, 1930. Serial No. 300,394. PUBLISHED AUGUST 12, 1930. Class 39.

277,100. LADIES' UNDERGARMENTS — NAMELY, LADIES' VESTS, BLOOMERS, PANTIES, CHEMISES, BANDEAUX, NIGHTGOWNS, PAJAMAS, AND PAJAMA ENSEMBLES MADE OF SILK AND RAYON MIXED. M. S. SIEGEL & COMPANY, INC., New York, N. Y.
Filed May 8, 1930. Serial No. 300,149. PUBLISHED AUGUST 12, 1930. Class 39.

277,101. CANNED FOOD PRODUCTS—VIZ, PORK AND BEANS, SPAGHETTI, BEANS, PEAS, PLUMS, AND RASPBERRIES. FREMONT CANNING COMPANY, Fremont, Mich.
Filed May 8, 1930. Serial No. 300,113. PUBLISHED AUGUST 19, 1930. Class 46.

277,102. SWEATERS, KNITTED JACKETS, SLIP-OVERS, AND GOLF HOSE FOR MEN, WOMEN, AND CHILDREN. PECKHAM-FOREMAN, INC., New York, N. Y.
Filed May 2, 1930. Serial No. 299,857. PUBLISHED AUGUST 19, 1930. Class 39.

277,103. PORTLAND-CEMENT BLOCKS, PORTLAND-CEMENT SLABS, AND PORTLAND CEMENT. NAAMLOOZE VENNOOTSCHAP EERSTE NEDERLANDSCHE CEMENT INDUSTRIE ENCI, Amsterdam, Netherlands.
Filed May 2, 1930. Serial No. 299,852. PUBLISHED AUGUST 12, 1930. Class 12.

277,104. WOMEN'S AND CHILDREN'S RAYON AND KNIT UNDERWEAR. THE CAMPE CORPORATION, New York, N. Y.
Filed April 30, 1930. Serial No. 299,681. PUBLISHED AUGUST 19, 1930. Class 39.

277,105. MEN'S DRESS, WORK, AND NEGLIGEE SHIRTS; PAJAMAS, NECKTIES, AND UNDERWEAR; ALSO MEN'S HOSE AND LADIES' HOSE. REPUBLIC SHIRT SHOPS, INC., Colorado Springs, Colo.
Filed April 14, 1930. Serial No. 298,847. PUBLISHED AUGUST 12, 1930. Class 39.

277,106. LAXATIVES IN TABLET FORM. DIAMOND STATE PHARMACAL COMPANY, Stanton, Del.
Filed April 5, 1930. Serial No. 298,431. PUBLISHED JULY 29, 1930. Class 6.

277,107. DIETETIC FOODSTUFFS AND NUTRITIVE SUBSTANCES ESPECIALLY IN COMBINATION WITH COCOA AND CHOCOLATE. NAGO NÄHRMITTELWERKE A. G., Olten, Switzerland.
Filed April 3, 1930. Serial No. 298,350. PUBLISHED AUGUST 19, 1930. Class 46.

277,108. CRAVATS FOR MEN AND BOYS. NEW YORK HAT STORES, Los Angeles, Calif.
Filed March 31, 1930. Serial No. 298,200. PUBLISHED AUGUST 19, 1930. Class 39.

277,109. WOMEN'S AND MISSES' FROCKS. JERI-MAY MFG. CO., NOT INC., Chicago, Ill.
Filed February 24, 1930. Serial No. 296,423. PUBLISHED AUGUST 19, 1930. Class 39.

277,110. ICE CREAM. GREENWOOD CREAMERY COMPANY, Greenwood, S. C.
Filed February 10, 1930. Serial No. 295,843. PUBLISHED APRIL 15, 1930. Class 46.

277,111. ICE CREAM. CASTLES ICE CREAM COMPANY, Irvington, N. J.
Filed January 9, 1930. Serial No. 294,573. PUBLISHED AUGUST 19, 1930. Class 46.

277,112. APPARATUS FOR CLEANING, FUMIGATING, AND CONTROLLING MOTHS, ROACHES, AND OTHER INSECT PESTS, DESIGNED FOR ATTACHMENT TO ELECTRIC VACUUM CLEANERS. AIR-WAY ELECTRIC APPLIANCE CORPORATION, Toledo, Ohio.
Filed August 6, 1929. Serial No. 288,166. PUBLISHED AUGUST 12, 1930. Class 23.

277,113. LIQUID CLEANING PREPARATION. DU-ALL HUMUS CO., INC., New York, N. Y.
Filed July 15, 1929. Serial No. 287,123. PUBLISHED AUGUST 19, 1930. Class 4.

277,114. APPARATUS FOR MEASURING THE ALCOHOL CONTENT OF FLUIDS; CRUCIBLES, CRUCIBLES FOR MELTING PURPOSES, PYROMETER TUBES, AND CONDENSER WATER METERS. SIEMENS-PLANIAWERKE A. G. FÜR KOHLEFABRIKATE, Berlin-Lichtenberg, Germany.
Filed June 28, 1929. Serial No. 286,343. PUBLISHED AUGUST 12, 1930. Class 26.

277,115. SHOES OF LEATHER, RUBBER, OR FABRIC OR A COMBINATION OF THESE MATERIALS. MELVILLE SHOE CORPORATION, New York, N. Y.
Filed June 22, 1929. Serial No. 285,980. PUBLISHED AUGUST 5, 1930. Class 39.

277,116. PROPHYLACTIC ARTICLES FOR THE PREVENTION OF CONTAGIOUS DISEASES. L. HILSENBECK, INCORPORATED, New York, N. Y., assignor to The Cutino Company, Kansas City, Mo., a Corporation of Missouri.
Filed June 22, 1929. Serial No. 285,972. PUBLISHED AUGUST 27, 1929. Class 44.

277,117. COMPOSITION FOR GLAZING, CAULKING, POINTING, ETC. HIEMA KUHLS, executrix of the estate of Herman B. F. Kuhls, doing business as H. B. Fred Kuhls, Brooklyn, N. Y.
Filed December 31, 1929. Serial No. 294,267. PUBLISHED AUGUST 12, 1930. Class 12.

277,118. SHOES OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF. GEORGE F. WALSH, New York, N. Y.
Filed December 21, 1929. Serial No. 293,992. PUBLISHED AUGUST 12, 1930. Class 39.

277,119. CERTAIN NAMED WEARING APPAREL. BROOKLANDS KNITTING INDUSTRY LIMITED, Altrincham, England.
Filed December 19, 1929. Serial No. 293,869. PUBLISHED AUGUST 5, 1930. Class 39.

277,120. GENERAL TONIC. VITOL LABORATORIES, Cleveland, Ohio.
Filed May 27, 1929. Serial No. 284,708. PUBLISHED JULY 29, 1930. Class 6.

277,121. CERTAIN NAMED WEARING APPAREL. PLAYMOR GOLF, INC., New York, N. Y.
Filed May 15, 1929. Serial No. 284,077. PUBLISHED JULY 29, 1930. Class 39.

277,122. SHOES, OXFORDS, AND BOOTS MADE OF LEATHER, RUBBER, AND FABRIC OR COMBINATIONS OF THESE MATERIALS. TEEPLE SHOE COMPANY, Waupun, Wis.
Filed May 6, 1929. Serial No. 283,595. PUBLISHED AUGUST 19, 1930. Class 39.

277,123. PROPHYLACTIC ARTICLES OF RUBBER AND GOLDBEATER SKIN FOR THE PREVENTION OF CONTAGIOUS DISEASES. THE CUTINO COMPANY, Kansas City, Mo.
Filed May 4, 1929. Serial No. 283,495. PUBLISHED AUGUST 19, 1930. Class 44.

277,124. FLYCATCHERS OF PAPER. THEODOR KAISER, doing business as Friedrich Kaiser, Waiblingen, Germany.
Filed April 18, 1929. Serial No. 282,604. PUBLISHED AUGUST 19, 1930. Class 50.

277,125. PERIODIC PUBLICATION. PROTECTIVE LIFE INSURANCE CO., Birmingham, Ala.
Filed March 11, 1929. Serial No. 280,571. PUBLISHED AUGUST 12, 1930. Class 38.

277,126. GASOLINE, KEROSENE, BENZIN, NAPHTHA, LUBRICATING OILS AND GREASES, AND FUEL OILS. TRUE'S OIL COMPANY, Spokane, Wash.
Filed February 4, 1929. Serial No. 278,858. PUBLISHED AUGUST 13, 1929. Class 15.

277,127. NATURAL MINERAL WATER, GINGER CHAMPAGNE, AND GINGER ALE. THE MANITOU MINERAL WATER COMPANY, Colorado Springs and Manitou, Colo.
Filtd December 26, 1929. Serial No. 277,208. PUBLISHED FEBRUARY 18, 1930. Class 45.

277,128. TROUSERS, BREECHES, AND OUTER WEAR KNOWN AS SHORTS. TAULINE, INCORPORATED, Roanoke, Ala., and Lagrange, Ga.
Filed December 13, 1928. Serial No. 276,670. PUBLISHED AUGUST 19, 1930. Class 39.

277,129. STOCKINGS, GLOVES, SLIPS, ETC. MAX LINDEMANN, Berlin, Germany.
Filed September 22, 1928. Serial No. 272,820. PUBLISHED AUGUST 5, 1930. Class 39.

277,130. CIGARS, CHEROOTS, AND LITTLE CIGARS. POR LARRANAGA FABRICA DE TABACOS, Habana, Cuba.
Filed January 24, 1928. Serial No. 260,593. PUBLISHED AUGUST 19, 1930. Class 17.

277,131. CIGARS, CHEROOTS, AND LITTLE CIGARS. POR LARRANAGA FABRICA DE TABACOS, Habana, Cuba.
Filed January 24, 1928. Serial No. 260,592. PUBLISHED AUGUST 19, 1930. Class 17.

277,132. MILK IN DRY OR POWDERED FORM FOR USE AS A FOOD. MERRELL-SOULE COMPANY, Syracuse, N. Y., assignor, by mesne assignments, to Merrell-Soule Company, Inc., New York, N. Y., a Corporation of Delaware.
Filed November 28, 1927. Serial No. 258,133. PUBLISHED AUGUST 19, 1930. Class 46.

277,133. MEN'S APPAREL—NAMELY, OVERCOATS, NEGLIGEE SHIRTS, AND HATS. THE SAMUEL STORES, INC., New York, N. Y.
Filed April 7, 1925. Serial No. 212,352. PUBLISHED AUGUST 12, 1930. Class 39.

277,134. MEN'S WORK CLOTHING—NAMELY, CAPS, WORK SHIRTS, SWEATERS, JUMPERS, AND OVERALLS. HUMBLE OIL & REFINING COMPANY, Houston, Tex.
Filed March 4, 1930. Serial No. 296,811. PUBLISHED AUGUST 5, 1930. Class 39.

277,135. MEN'S HATS. THE AMERICAN HAT CO. INC., Norwalk, Conn.
Filed March 21, 1930. Serial No. 297,647. PUBLISHED JULY 29, 1930. Class 39.

277,136. HAIR WAVERS IN THE NATURE OF CLASPS. LAPIN SPECIALTY MFG. CO., INC., New York, N. Y.
Filed January 11, 1930. Serial No. 294,674. PUBLISHED AUGUST 19, 1930. Class 40.

277,137. LADIES' SHOES OF LEATHER OR CLOTH. JOHNSON-STEPHENS & SHINKLE SHOE COMPANY, St. Louis, Mo.
Filed January 20, 1930. Serial No. 294,974. PUBLISHED AUGUST 12, 1930. Class 39.

277,138. CLOTHING — VIZ, MEN'S, BOYS', AND YOUTHS' SUITS, OVERCOATS, TOPCOATS, BATH ROBES, RAINCOATS, HATS, TROUSERS, AND CAPS. THE BIG STORE COMPANY, Cincinnati, Ohio.
Filed February 25, 1930. Serial No. 296,475. PUBLISHED AUGUST 19, 1930. Class 39.

277,139. LADIES' SHOES MADE OF LEATHER, RUBBER, AND COMBINATIONS OF THE SAME. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed March 3, 1930. Serial No. 296,778. PUBLISHED JULY 8, 1930. Class 39.

277,140. MEN'S WORK CLOTHING—NAMELY, CAPS, WORK SHIRTS, SWEATERS, JUMPERS, AND OVERALLS. HUMBLE OIL & REFINING COMPANY, Houston, Tex.
Filed March 4, 1930. Serial No. 296,810. PUBLISHED AUGUST 5, 1930. Class 39.

277,141. CERTAIN NAMED WEARING APPAREL. JAFFEE-COHEN & LANG, INC., New York, N. Y.
Filed March 27, 1930. Serial No. 297,972. PUBLISHED AUGUST 12, 1930. Class 39.

277,142. CERTAIN NAMED FOOTWEAR. THE CHESAPEAKE SHOE MANUFACTURING COMPANY, Baltimore, Md.
Filed March 22, 1930. Serial No. 297,727. PUBLISHED AUGUST 12, 1930. Class 39.

277,143. GLOVES MADE OF LEATHER OR FABRIC OR OF A COMBINATION OF LEATHER AND FABRIC. THE SPARTAN GLOVE COMPANY, Dayton, Ohio.
Filed March 31, 1930. Serial No. 298,210. PUBLISHED AUGUST 19, 1930. Class 39.

277,144. SHOES, OXFORDS, AND BOOTS MADE OF LEATHER, RUBBER, AND FABRIC OR COMBINATIONS OF THESE MATERIALS. TEEPLE SHOE COMPANY, Waupun, Wis.
Filed April 7, 1930. Serial No. 298,518. PUBLISHED AUGUST 19, 1930. Class 39.

277,145. GIRDLES, CORSETS, AND CORSET BELTS. ASSOCIATED APPAREL INDUSTRIES, INC., Chicago, Ill.
Filed April 12, 1930. Serial No. 298,736. PUBLISHED JULY 29, 1930. Class 39.

LABELS

REGISTERED NOVEMBER 4, 1930

38,181.—*Title:* ANNETTE'S PERFECT CLEANSER. For Powder Cleanser. ANNETTE'S PERFECT CLEANSER COMPANY, Boston, Mass. Published August 1, 1930.

38,182.—*Title:* TWIN SEVEN. For Melons and Vegetables. Y. AOYAMA, doing business as Y. Aoyama Company, Brawley, Calif. Published August 21, 1930.

38,183.—*Title:* ARENAS. For Fresh Fruits and Fresh Vegetables. A. ARENA & Co., LTD., Los Angeles, Calif. Published July 15, 1930.

38,184.—*Title:* CERA-LAC WONDER FLOUR. For Flour. THE CERA-LAC COMPANY, Los Angeles, Calif. Published August 16, 1930.

38,185.—*Title:* BIG 3. For Spaghetti. CHICAGO MACARONI CO., Chicago, Ill. Published August 2, 1930.

38,186.—*Title:* NOX-FLY. For Chemical Compound Used as a Spray Against Flies and Other Insects. CONTINENTAL OIL COMPANY, New York, N. Y. Published July 7, 1930.

38,187.—*Title:* BIG HIT. For Coffee. THE EUCLID COFFEE COMPANY, Cleveland, Ohio. Published September 10, 1930.

38,188.—*Title:* MME. GALLI, INC., CHICAGO, ILL. For Spaghetti Sauce. MME. GALLI, INC., Chicago, Ill. Published June 3, 1930.

38,189.—*Title:* SLICED BOND BREAD. For Bread. GENERAL BAKING COMPANY, New York, N. Y. Published September 1, 1930.

38,190.—*Title:* VIKING. For Rye. GLOBE MILLING COMPANY, Watertown, Wis. Published June 2, 1930.

38,191.—*Title:* GOSMAN'S. For Ginger-Flavored, Medicinal Product. THE GOSMAN COMPANY, Baltimore, Md. Published October 2, 1930.

38,192.—*Title:* NO. CB–331. For Wrapped Cakes. LAMBOOY LABEL AND WRAPPER CO., Kalamazoo, Mich. Published September 8, 1930.

38,193.—*Title:* NO. CB–332. For Wrapped Cakes. LAMBOOY LABEL AND WRAPPER CO., Kalamazoo, Mich. Published September 8, 1930.

38,194.—*Title:* NO. CB–333. For Wrapped Rolls. LAMBOOY LABEL AND WRAPPER CO., Kalamazoo, Mich. Published September 8, 1930.

38,195.—*Title:* NO. CB–334. For Wrapped Cakes. LAMBOOY LABEL AND WRAPPER CO., Kalamazoo, Mich. Published September 8, 1930.

38,196.—*Title:* NO. CB–335. For Wrapped Cakes. LAMBOOY LABEL AND WRAPPER CO., Kalamazoo, Mich. Published September 8, 1930.

38,197.—*Title:* NO. CB–336. For Wrapped Cakes. LAMBOOY LABEL AND WRAPPER CO., Kalamazoo, Mich. Published September 8, 1930.

38,198.—*Title:* NO. CB–337. For Wrapped Jelly Rolls. LAMBOOY LABEL AND WRAPPER CO., Kalamazoo, Mich. Published September 8, 1930.

38,199.—*Title:* NO. CB–338. For Wrapped Cakes. LAMBOOY LABEL AND WRAPPER CO., Kalamazoo, Mich. Published September 8, 1930.

38,200.—*Title:* NO. CB–339. For Wrapped Cakes. LAMBOOY LABEL AND WRAPPER CO., Kalamazoo, Mich. Published September 8, 1930.

38,201.—*Title:* NO. CB–340. For Wrapped Cakes. LAMBOOY LABEL AND WRAPPER CO., Kalamazoo, Mich. Published September 8, 1930.

38,202.—*Title:* NO. CB–341. For Wrapped Cakes. LAMBOOY LABEL AND WRAPPER CO., Kalamazoo, Mich. Published September 8, 1930.

38,203.—*Title:* NO. CB–342. For Wrapped Cakes. LAMBOOY LABEL AND WRAPPER CO., Kalamazoo, Mich. Published September 8, 1930.

38,204.—*Title:* NO. CB–330. For Wrapped Doughnuts. LAMBOOY LABEL AND WRAPPER CO., Kalamazoo, Mich. Published September 8, 1930.

38,205.—*Title:* CB–343. For Wrapped Tea Biscuits. LAMBOOY LABEL AND WRAPPER CO., Kalamazoo, Mich. Published September 8, 1930.

38,206.—*Title:* GRANDMA'S HONEY CRISP POTATO CHIPS. For Potato Chips. LANTZ BROS. BAKING CO., St. Louis, Mo. Published September 16, 1930.

38,207.—*Title:* FORMOST FOUR HOUR ENAMEL. For Paint. LOUIS LEAVITT, Brooklyn, N. Y. Published April 15, 1930.

38,208.—*Title:* GRAND SLAM. For Candy. THE ROBT. F. MACKENZIE CO., Cleveland, Ohio. Published May 1, 1930.

38,209.—*Title:* MOTHER'S BIG BOY. For Bread. THE MENASHA PRODUCTS COMPANY, Chicago, Ill., assignor to Derry's Bakery, Arkansas City, Kans. Published July 2, 1929.

38,210.—*Title:* PECHE HAND CREAM. For a Cream for the Hands. OGILVIE SISTERS, New York, N. Y. Published March 28, 1930.

38,211.—*Title:* CHAMPION. For Malt Syrup. PHILADELPHIA MALT EXTRACT CO., Philadelphia, Pa. Published July 25, 1930.

38,212.—*Title:* YESTERLAID BETTER EGGS. For Eggs. W. E. PUFFER, Glendale, Calif. Published June 19, 1930.

38,213.—*Title:* RATH'S BLACK HAWK HAM. For Cooked and Tinned Ham. THE RATH PACKING COMPANY, Waterloo, Iowa. Published July 1, 1930.

38,214.—*Title:* RAWLEIGH'S IDEAL FLY REPELLENT. For Liquid Fly Repellent. THE W. T. RAWLEIGH COMPANY, Freeport, Ill. Published May 26, 1930.

38,215.—*Title:* ROGERS PRODUCTS BANISHES MANY PAINS AND ILLS. For Medicinal Products. ALFRED DANIEL ROGERS, doing business as Rogers Products Manufacturing Company, Pink Hill, N. C. Published May 8, 1930.

38,216.—*Title:* SKI-SCRAPER BLOCKS. For Children's Toy Building Blocks. THE A. I. ROOT COMPANY, Medina, Ohio. Published December 10, 1929.

38,217.—*Title:* RUSSO ITALIAN MACARONI. For Macaroni. A. RUSSO & Co., Chicago, Ill. Published June 1, 1930.

38,218.—*Title:* PICNIC BREAD. For Bread. SHAWMUT MILLS, Holliston, Mass. Published July 27, 1930.

PRINTS

REGISTERED NOVEMBER 4, 1930

12,772.—*Title:* ELIZABETH ARDEN WILL DO THESE LOVELY THINGS FOR YOUR SKIN. For Cleansing Cream, Skin Tonic, Velva Cream, Orange Skin Food, Pore Cream, Antiwrinkle Cream, and Muscle Oil. ELIZABETH ARDEN, INC., New York, N. Y. Published October 3, 1930.

12,773.—*Title:* SHE HAS SO MANY THINGS THAT CITY CHILDREN MISS. For Wheat Breakfast Food. THE CREAM OF WHEAT CORPORATION, Minneapolis, Minn. Published August 20, 1930.

12,774.—*Title:* THE CHICKENETTE. For Foods Specially Prepared from Chicken Meat. CHARLES DIXIE, Dallas, Tex. Published August 28, 1930.

12,775.—*Title:* LUCKY BREAKS—SHORT TITLE BREAKS. For Cigarettes. HAROLD B. JAYNE, New York, N. Y. Published September 2, 1930.

12,776.—*Title:* HEADLIGHT ZIP-IT. For Overalls. LARNED, CARTER & CO., Detroit, Mich. Published March 20, 1930.

12,777.—*Title:* UNCLE LIMBER'S GOLDEN RULE BREAD. For Bread. L. L. LIMBER, Franklin, Pa. Published July 28, 1930.

12,778.—*Title:* THE WATCH YOU CAN FORGET TO WIND. For Self-Winding Watches. PERPETUAL SELF WINDING WATCH COMPANY OF AMERICA, INC., New York, N. Y. Published July 25, 1930.

12,779.—*Title:* CAMELS ARE MADE TO SMOKE. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published June 2, 1930.

12,780.—*Title:* CAMEL—A PROMISE OF PLEASURE. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published June 6, 1930.

12,781.—*Title:* THE SMOKE'S THE THING. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published June 12, 1930.

12,782.—*Title:* DON'T DENY YOURSELF THIS LUXURY. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published April 9, 1930.

12,783.—*Title:* CAMEL—MADE TO SMOKE. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published June 17, 1930.

12,784.—*Title:* AS PORTIA SAID TO SHYLOCK. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published August 3, 1930.

12,785.—*Title:* JULIET SUPPLIED THE BALCONY. ROMEO THE CAMELS. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published August 31, 1930.

12,786.—*Title:* WITHOUT BENEFIT OF BOLOGNA. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published September 1, 1930.

12,787.—*Title:* BRIM-FULL OF THE GOODNESS THAT SUNSHINE GIVES. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published May 12, 1930.

12,788.—*Title:* THE HONEST REASON. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published May 19, 1930.

12,789.—*Title:* THE BASIS OF LEADERSHIP. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published May 26, 1930.

12,790.—*Title:* LABOR DAY WEEK-END . . . OH BOY! For Shell Gasoline. SHELL EASTERN PETROLEUM PRODUCTS, INC., New York, N. Y. Published August 26, 1930.

12,791.—*Title:* WHY EAT DUST? For Gasoline. SHELL EASTERN PETROLEUM PRODUCTS, INC., New York, N. Y. Published August 15, 1930.

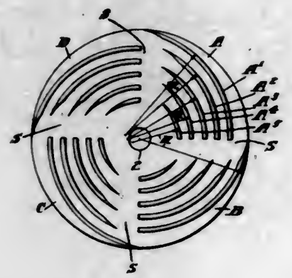
12,792.—*Title:* WHO SAYS SO? For Gasoline. SHELL EASTERN PETROLEUM PRODUCTS, INC., New York, N. Y. Published September 9, 1930.

12,793.—*Title:* AND THEY KEEP ON COMING—. For Gasoline. SHELL EASTERN PETROLEUM PRODUCTS, INC., New York, N. Y. Published September 23, 1930.

REISSUES

NOVEMBER 4, 1930

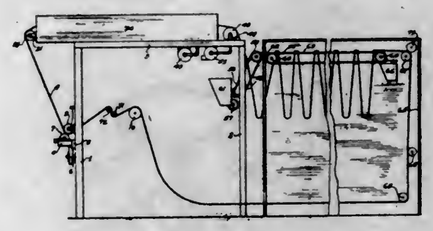
17,853. POLISHING WHEEL. DANIEL FREDRICK MCGOVERN, Montpelier, Vt. Filed Apr. 8, 1927. Serial No. 182,141. Original No. 1,565,746, dated Dec. 15, 1925, Serial No. 700,721, filed Mar. 20, 1924. 1 Claim. (Cl. 51—209.)



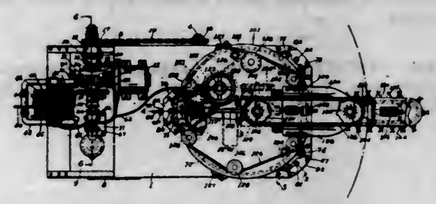
A polishing wheel, comprising a disc having on its working face groups of segmental flanges, each flange group being circularly spaced from the next adjacent flange groups, and said spaces constituting aisles extending radially from adjacent the center of the disc to the tips of the outermost flanges of said groups, and the tips of the outermost flanges of such groups starting at substantially the periphery of the disc and overlapping the outer ends of said aisles, the included flanges of each group all starting at spaced points in substantially the same plane and all the flanges of each group, including the outermost flange thereof, terminating in substantially the same plane.

17,854. TRANSPARENT-PAPER MACHINE. EDOUARD M. KRATZ, Chicago, Ill., assignor to Marsene Products Co., Chicago, Ill., a Corporation of Illinois. Filed Apr. 29, 1929. Serial No. 359,140. Original No. 1,650,585, dated Nov. 22, 1927, Serial No. 49,970, filed Aug. 13, 1925. 18 Claims. (Cl. 18—15.)

12. In a machine of the class described including a traveling belt, carrying material to be congealed, a chill device, comprising a hollow member, the walls of said member defining a chamber for the circulation of a refrigerating fluid, a portion of the upper wall being depressed and longitudinally crowned for contacting said belt.



17,855. MINING MACHINE. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffery Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Dec. 3, 1921. Serial No. 519,788. Original application filed Feb. 12, 1914, Serial No. 818,314. Renewed Jan. 3, 1920, Serial No. 349,350. Original No. 1,353,054, dated Sept. 14, 1920. 30 Claims. (Cl. 262—28.)

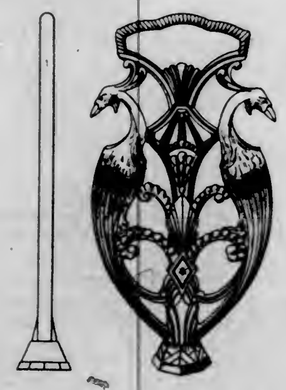


23. In a machine of the class described, a carriage including front and rear wheels, a cutter bar mounted on said carriage and projecting therefrom, a motor on said carriage, and means driven by the motor for tilting said cutter bar relative to the plane of the wheel axes.

DESIGNS

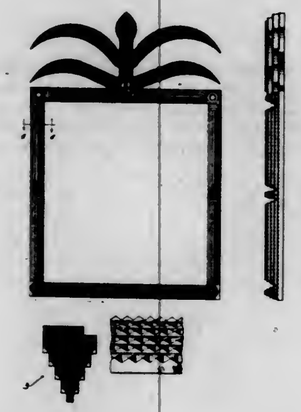
NOVEMBER 4, 1930

82,409. HANDLE FOR SMOKERS' STANDS OR ARTICLE OF ANALOGOUS NATURE. FRANK J. ABEL, New York, N. Y., assignor to Sun Rise Lamp Mfg. Co. Inc., a Corporation of New York. Filed Aug. 30, 1930. Serial No. 36,833. Term of patent 3½ years.



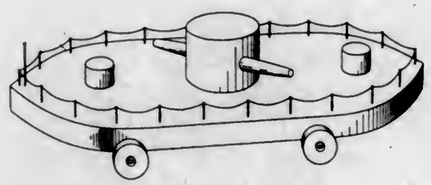
The ornamental design for a handle for a smoker's stand or article of analogous nature substantially as shown and described.

82,410. PICTURE FRAME. STEPHEN J. ATTINGER, Sharpsburg, Pa. Filed July 29, 1930. Serial No. 36,509. Term of patent 7 years.



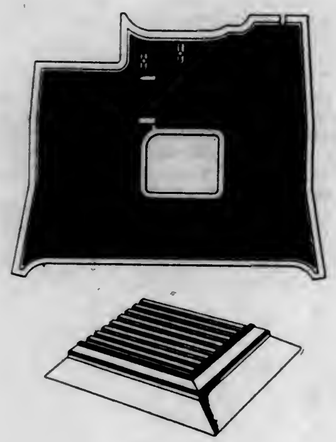
The ornamental design for a picture frame, as shown and described.

82,411. TOY SHIP. LEON H. BAXTER, Hudson, Ohio. Filed June 23, 1930. Serial No. 36,135. Term of patent 7 years.



The ornamental design for a toy ship, as shown.

82,412. AUTOMOBILE FLOOR MAT. JAMES FRANCIS DUFFY, Holland, Mich., assignor to Duffy Manufacturing Company, Holland, Mich., a Corporation of Michigan. Filed July 21, 1930. Serial No. 36,423. Term of patent 14 years.



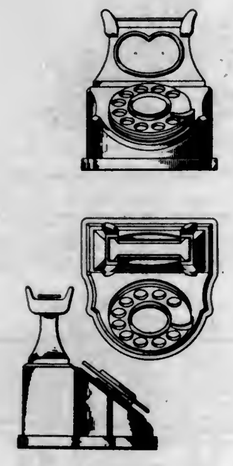
The ornamental design for an automobile floor mat, as shown.

82,413. CABINET. HANS BERG, Grand Rapids, Mich., assignor to Kellogg Switchboard & Supply Co., Chicago, Ill., a Corporation of Illinois. Filed June 17, 1929. Serial No. 31,735. Term of patent 7 years.



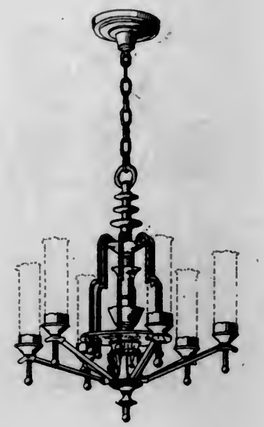
The ornamental design for a cabinet substantially as shown.

82,414. DESK STAND FOR A HAND TELEPHONE. LUCIAN BERNHARD, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed May 10, 1930. Serial No. 35,560. Term of patent 14 years.



The ornamental design for a desk stand for a hand telephone, as shown.

82,415. LIGHTING FIXTURE OR ARTICLE OF SIMILAR NATURE. HUGO BOHL, Westfield, N. J., assignor to Radiant Lighting Fixture Co. Inc., New York, N. Y. Filed Feb. 12, 1930. Serial No. 34,500. Term of patent 3½ years.



The ornamental design for a lighting fixture or article of similar nature, as shown.

82,416. SHOE. FERDINAND W. ELLINGTON, Jamaica, N. Y., assignor to Delman, Inc., New York, N. Y., a Corporation of New York. Filed June 25, 1930. Serial No. 36,162. Term of patent 3½ years.



The ornamental design for a shoe as shown.

82,417. SHOE. FERDINAND W. ELLINGTON, Jamaica, N. Y., assignor to Delman, Inc., New York, N. Y., a Corporation of New York. Filed June 25, 1930. Serial No. 36,165. Term of patent 3½ years.



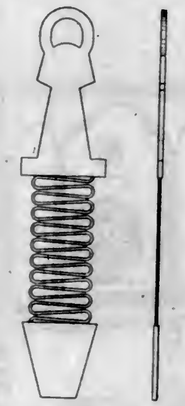
The ornamental design for a shoe as shown.

82,418. SHOE. FERDINAND W. ELLINGTON, Jamaica, N. Y., assignor to Delman, Inc., New York, N. Y., a Corporation of New York. Filed June 30, 1930. Serial No. 36,240. Term of patent 3½ years.



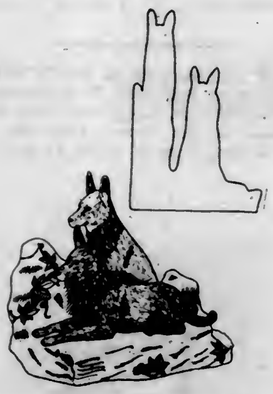
The ornamental design for a shoe as shown.

82,419. NECKTIE HOLDER. EMANUEL M. EISFELD, Rochester, N. Y., assignor to Braeburn of Rochester, Inc., Rochester, N. Y., a Corporation of New York. Filed Apr. 24, 1930. Serial No. 35,372. Term of patent 3½ years.



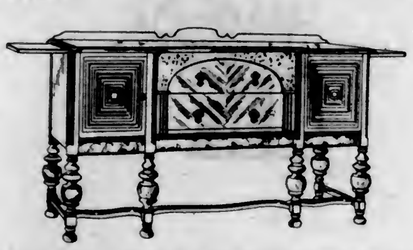
The ornamental design for a necktie holder, as shown.

82,420. LAMP. SAUL WILLIAM FRUCHTMAN, Brooklyn, N. Y., assignor to Everlite Novelty Mfg. Corp., a Corporation of New York. Filed Apr. 18, 1930. Serial No. 35,311. Term of patent 3½ years.



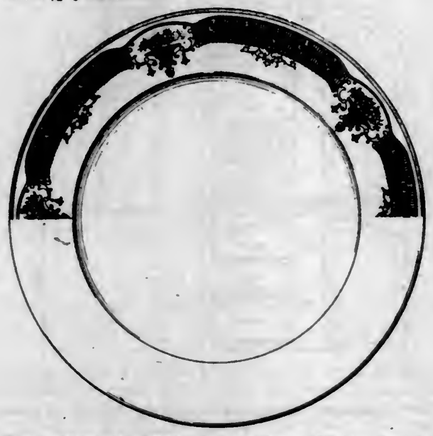
The ornamental design for a lamp substantially as shown.

82,421. BUFFET. FRED A. GLEICHAUF, Newark, Ohio. Filed Aug. 7, 1930. Serial No. 36,588. Term of patent 3½ years.



The ornamental design for a buffet as shown.

82,422. DISH OR SIMILAR ARTICLE. WILLIAM P. GRAHAM, New York, N. Y., assignor to Graham & Zenger, Inc., New York, N. Y., a Corporation of New York. Filed July 17, 1930. Serial No. 36,384. Term of patent 3½ years.



The ornamental design for a dish or similar article as shown and described.

82,423. ASH RECEPTACLE. ALBERT C. GRUNWALD, River Forest, Ill., assignor to Precision Metal Workers, Chicago, Ill., a Corporation of Illinois. Filed Sept. 6, 1930. Serial No. 36,886. Term of patent 14 years.



The ornamental design for an ash receptacle as shown.

82,424. CLOCK OR THE LIKE. ERROL W. GOFF, Everett, Mass., assignor to Warren Telechron Company, a Corporation of Maine. Filed July 15, 1930. Serial No. 36,355. Term of patent 14 years.



The ornamental design for a clock or the like as shown.

82,425. STREET-LIGHTING FIXTURE. GEORGE ROLLO HARRIS, Los Angeles, Calif. Filed Aug. 5, 1929. Serial No. 32,307. Term of patent 3½ years.



The ornamental design for a street lighting fixture, substantially as shown.

82,426. LAMP. HERBERT V. HENDERSON, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a Corporation of Delaware. Filed Dec. 21, 1929. Serial No. 33,891. Term of patent 3½ years.



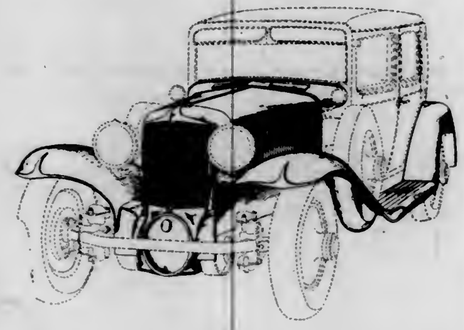
The ornamental design for a lamp substantially as shown.

82,427. AMUSEMENT-PARK BUILDING OR ANALOGOUS STRUCTURE. EMIL C. HOPPE, Elizabeth, N. J. Filed May 31, 1930. Serial No. 35,871. Term of patent 14 years.



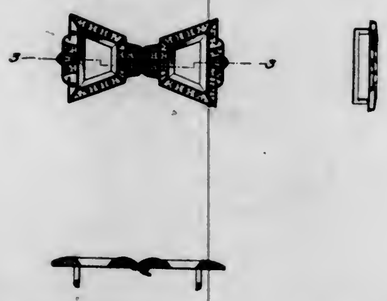
The ornamental design for an amusement park building or analogous structure, as shown.

82,428. AUTOMOBILE. ALAN H. LEAMY, Auburn, Ind., assignor to Manning & Co., Chicago, Ill., a Corporation of Illinois. Filed June 24, 1929. Serial No. 31,807. Term of patent 7 years.



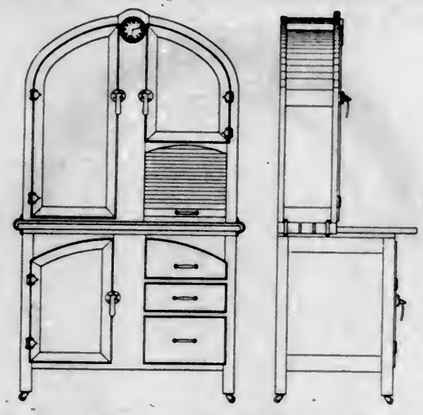
The ornamental design for an automobile, substantially as shown.

82,429. COSTUME JEWELRY CLASP. MORRIS LUCOMLIN, New York, N. Y. Filed Aug. 13, 1930. Serial No. 36,655. Term of patent 3½ years.



The ornamental design for a costume jewelry clasp as shown.

82,430. KITCHEN CABINET. JOSEPH F. KASPER, Louisville, Ky. Filed June 16, 1930. Serial No. 36,050. Term of patent 14 years.



The ornamental design for a kitchen cabinet as shown.

82,431. SALT AND PEPPER SHAKER. JESS CLAIR KELLY, Cambridge, Ohio. Filed Sept. 6, 1930. Serial No. 36,885. Term of patent 14 years.



The ornamental design for a salt and pepper shaker substantially as shown.

82,432. SHOE BUCKLE. CLIFFORD G. KING, Barrington, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Filed Aug 7, 1930. Serial No 36,584. Term of patent 3½ years.



The ornamental design for a shoe buckle as shown.

82,433. SHOE ORNAMENT. CLIFFORD G. KING, Barrington, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Filed Aug. 7, 1930. Serial No. 36,585 Term of patent 3½ years.



The ornamental design for a shoe ornament as shown.

82,434. BABY'S SHOE. PHILIPP KLAUER, Nuremberg, Germany, assignor to the Firm Vereinigte Schuhfabriken Berneis-Wessels A. G., Augsburg-Oberhausen, Germany. Filed July 8, 1929, Serial No. 31,960, and in Germany Mar. 23, 1929. Term of patent 7 years.



The ornamental design for a baby's shoe, as shown and described.

82,435. TOY TOP. JOHN M. KRAUSE, Los Angeles, Calif., assignor of one-half to Norman E. Hall, Los Angeles, Calif. Filed May 9, 1930. Serial No. 35,556. Term of patent 3½ years.



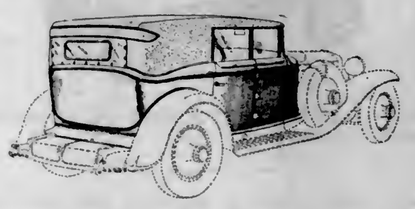
The ornamental design for a toy top as shown.

82,436. COMBINED MIRROR AND INSTRUMENT. WILLIAM LA HODNY, Buffalo, N. Y., assignor to Standard Mirror Company, Inc., Buffalo, N. Y., a Corporation of New York. Filed Aug. 29, 1930. Serial No. 36,822. Term of patent 14 years.



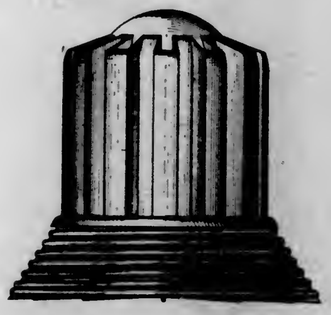
The ornamental design for a combined mirror and instrument as shown.

82,437. AUTOMOBILE. ALAN H. LEAMY, Auburn, Ind., assignor to Manning & Co., Chicago, Ill., a Corporation of Illinois. Filed June 19, 1929. Serial No. 31,759. Term of patent 7 years.



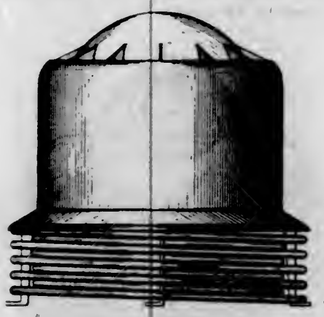
The ornamental design for an automobile substantially as shown.

82,438. REFRIGERATOR UNIT. EDWARD B. MALLORY, Tenafly, N. J. Filed Feb. 26, 1930. Serial No. 34,657. Term of patent 14 years.



The ornamental design for a refrigerator unit as shown and described.

82,439. REFRIGERATOR UNIT. EDWARD B. MALLORY, Tenafly, N. J. Filed Feb. 26, 1930. Serial No. 34,659. Term of patent 14 years.



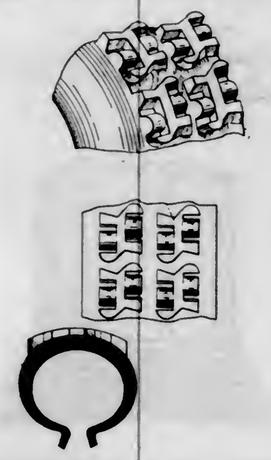
The ornamental design for a refrigerator unit as shown and described.

82,440. VEHICLE TOY. LOUIS MARX, New York, N. Y., assignor to Charles J. Correll and Freeman F. Gosden, Chicago, Ill. Filed Mar. 31, 1930. Serial No. 35,075. Term of patent 3½ years.



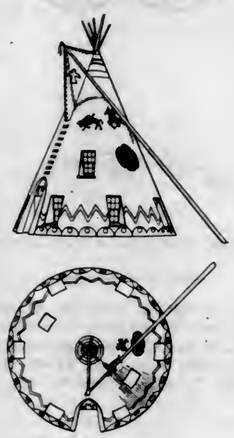
The ornamental design for a vehicle toy, substantially as shown and described.

82,441. TIRE. JOHN J. MCDONALD, West View, Pa. Filed Oct. 24, 1929. Serial No. 33,151. Term of patent 7 years.



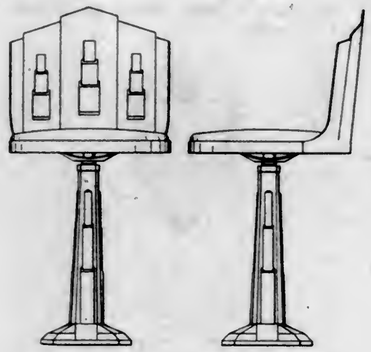
The ornamental design for a tire as shown.

82,442. BUILDING. FRANK W. MCDONALD, Lawrence, Kans. Filed June 24, 1930. Serial No. 36,155. Term of patent 7 years.



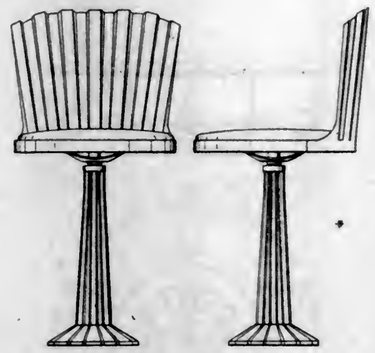
The ornamental design for a building as shown.

82,443. ROTARY CHAIR. JAMES J. MCGERRY, Grand Rapids, and CHARLES H. WHITING, Kalamazoo, Mich., assignors to Rotary Utility Corporation, Chicago, Ill., a Corporation of Illinois. Filed July 18, 1930. Serial No. 36,391. Term of patent 7 years.



The ornamental design for a rotary chair, as shown.

82,444. CHAIR. JAMES J. MCGERRY, Grand Rapids, and CHARLES H. WHITING, Kalamazoo, Mich., assignors to Rotary Utility Corporation, Chicago, Ill., a Corporation of Illinois. Filed July 18, 1930. Serial No. 36,393. Term of patent 7 years.



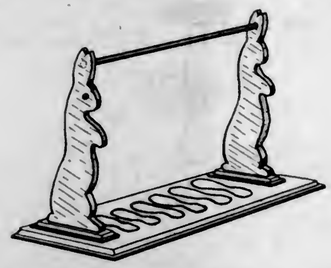
The ornamental design for a chair, as shown.

82,445. SPANISH LACE FOR DRESSES. CHARLES B. J. MOLITOR, New York, N. Y. Filed Aug. 27, 1929. Serial No. 32,560. Term of patent 3½ years.



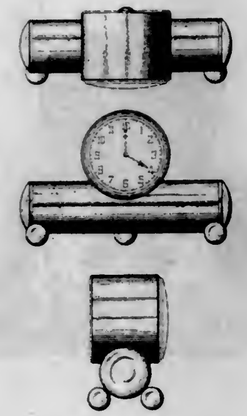
The ornamental design for Spanish lace for dresses as shown and described.

82,446. CHILD'S COSTUMER. GERTRUDE A. MULLER, Fort Wayne, Ind. Filed Aug. 19, 1929. Serial No. 32,445. Term of patent 3½ years.



The ornamental design for a child's costumer as shown.

82,447. CLOCK CASING. ROBERT P. NICHOLS, Port Chester, N. Y. Filed June 28, 1930. Serial No. 36,227. Term of patent 3½ years.



The ornamental design for a clock casing as shown.

82,448. BADGE OR SIMILAR ARTICLE. HAILEY A. PROCTOR, Sylvia, Kans. Filed Aug. 12, 1930. Serial No. 36,643. Term of patent 14 years.



The ornamental design for a badge or similar article, as shown.

82,449. MAGAZINE COVER. WILLIAM D. ROSE, Portland, Oreg. Filed June 24, 1930. Serial No. 36,159. Term of patent 3½ years.



The ornamental design for a magazine cover, as shown and described.

82,450. RING. ABRAHAM SAGER, Chicago, Ill. Filed Jan. 16, 1930. Serial No. 34,149. Term of patent 14 years.



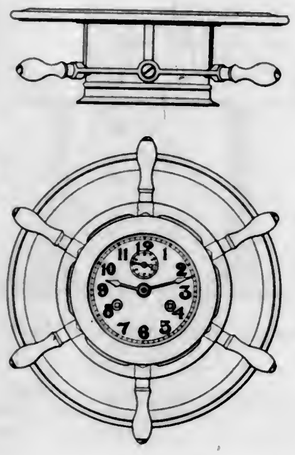
The ornamental design for a ring as shown.

82,451. TABLE-LIGHTING FIXTURE. BERNARD SCHAEFER, Cincinnati, Ohio. Filed May 9, 1930. Serial No. 35,547. Term of patent 7 years.



The ornamental design for a table lighting fixture, as shown.

82,452. CLOCK CASE. JOHN H. SCHAEFER, Grosse Pointe Park, Mich. Filed Apr. 4, 1930. Serial No. 35,165. Term of patent 7 years.



The ornamental design for a clock case substantially as shown.

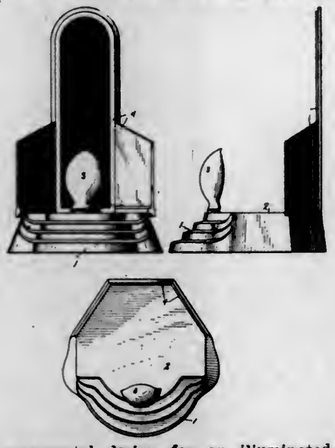
82,453. COMBINED SAFETY-RAZOR HANDLE, BLADE SUPPORT, AND GUARD. JOHN T. SCULLY, New York, N. Y. Filed Feb. 5, 1930. Serial No. 34,409. Term of patent 14 years.



The ornamental design for a combined safety-razor handle, blade support, and guard, as shown.

CARNEGIE LIBRARY OF ATLANTA

82,454. ILLUMINATED BASE FOR STATUARY AND THE LIKE. HYMAN SHAPIRO, Brooklyn, N. Y., assignor to Samuel Perla, Brooklyn, N. Y. Filed Aug. 5, 1930. Serial No. 36,555. Term of patent 7 years.



The ornamental design for an illuminated base for statuary and the like substantially as shown and described.

82,455. EDIBLE CONTAINER FOR ICE CREAM. BENJAMIN SMITH, Chelsea, Mass. Filed Oct. 30, 1929. Serial No. 33,221. Term of patent 7 years.





The ornamental design for an edible container for ice cream, as shown.

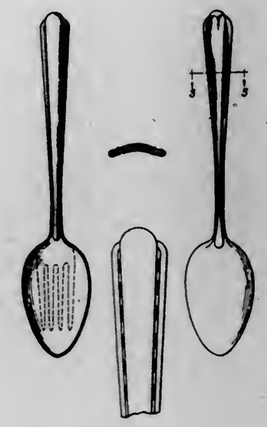
82,456. SHOE ORNAMENT. WALTER EDWARD SMITH, Warwick Downs. R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Filed Aug. 5, 1930. Serial No. 36,565. Term of patent 3½ years.





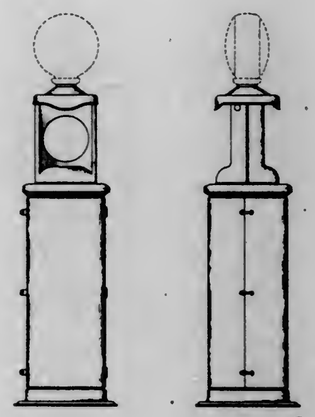
The ornamental design for a shoe ornament as shown.

82,457. SPOON OR SIMILAR ARTICLE. AXEL H. STAF, Providence, R. I., assignor to The Alvin Corporation, Providence, R. I. Filed May 24, 1930. Serial No. 35,741. Term of patent 14 years.



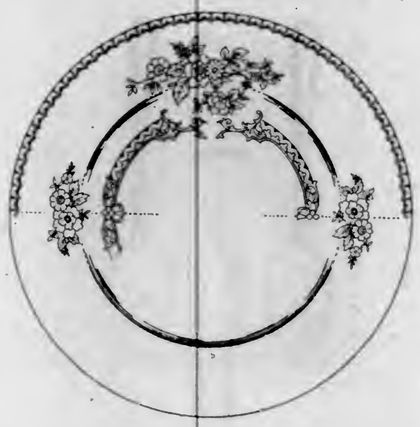
The ornamental design for a spoon or similar article as shown.

82,458. CASING FOR AN OIL PUMP. JACQUES STANITZ, Warren, Ohio, assignor to The Youngstown Pressed Steel Company, Warren, Ohio, a Corporation of Ohio. Filed Apr. 2, 1930. Serial No. 35,104. Term of patent 7 years.



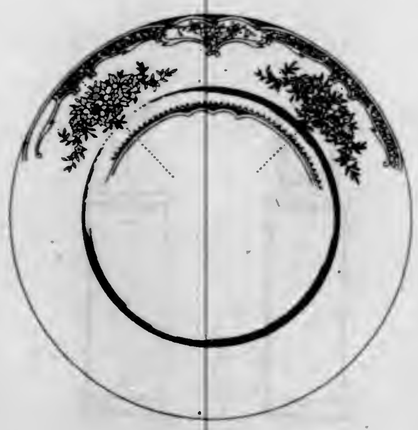
The ornamental design for a casing for an oil pump, as shown.

82,459. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, Astoria, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 4, 1929. Serial No. 33,294. Term of patent 7 years.



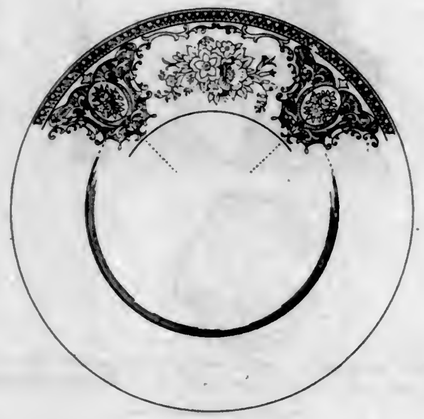
The ornamental design for a plate or similar article, as shown and described.

82,460. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, Astoria, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 4, 1929. Serial No. 33,296. Term of patent 7 years.



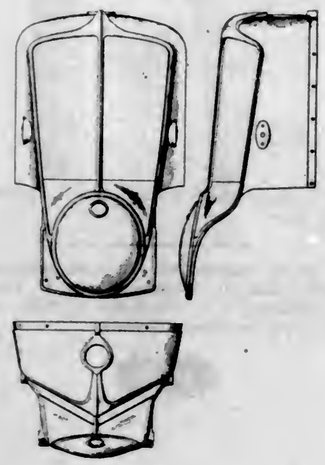
The ornamental design for a plate or similar article, as shown and described.

82,461. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, Astoria, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 4, 1929. Serial No. 33,300. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown and described.

82,462. RADIATOR SHELL. CORNELIUS W. VAN RANST, Auburn, Ind., assignor, by mesne assignments, to Manning & Co., Chicago, Ill., a Corporation of Illinois. Filed May 31, 1929. Serial No. 31,473. Term of patent 7 years.



The ornamental design for a radiator shell substantially as shown.

82,463. ASH TRAY OR SIMILAR ARTICLE. ARTHUR VON FRANKENBERG, New York, N. Y. Filed Aug. 16, 1930. Serial No. 36,681. Term of patent 7 years.



The ornamental design for an ash tray or similar article, substantially as shown.

82,464. RADIOCABINET. HARRY BACKER WARNER, Hagerstown, Md. Filed Nov. 11, 1929. Serial No. 33,420. Term of patent 14 years.



The ornamental design for a radiocabinet substantially as shown and described.

82,465. ELECTRIC-LAMP SOCKET. JOHN WEBER, Schenectady, N. Y., assignor to Weber Electric Company, Schenectady, N. Y., a Corporation of New York. Filed June 10, 1929. Serial No. 31,608. Term of patent 14 years.



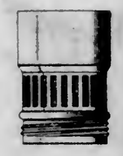
The ornamental design for an electric lamp socket substantially as shown and described.

82,466. ELECTRIC-LAMP SOCKET. JOHN WEBER, Schenectady, N. Y., assignor to Weber Electric Company, Schenectady, N. Y., a Corporation of New York. Filed June 12, 1930. Serial No. 36,025. Term of patent 14 years.



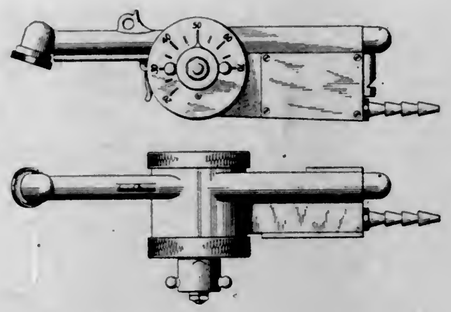
The ornamental design for an electric lamp socket, substantially as shown and described.

82,467. ELECTRIC-LAMP SOCKET. JOHN WEBER, Schenectady, N. Y., assignor to Weber Electric Company, Schenectady, N. Y., a Corporation of New York. Filed Aug. 29, 1930. Serial No. 36,819. Term of patent 14 years.



The ornamental design for an electric lamp socket, substantially as shown and described.

82,468. TIRE-INFLATION DEVICE. SIDNEY M. WEISBERG, Brooklyn, N. Y. Filed Aug. 21, 1930. Serial No. 36,730. Term of patent 14 years.



The ornamental design for a tire inflation device, as shown.

82,469. SHOE. FERDINAND W. ELLINGTON, Queens County, N. Y., assignor to Delman, Inc., New York, N. Y., a Corporation of New York. Filed June 25, 1930. Serial No. 36,166. Term of patent 3½ years.



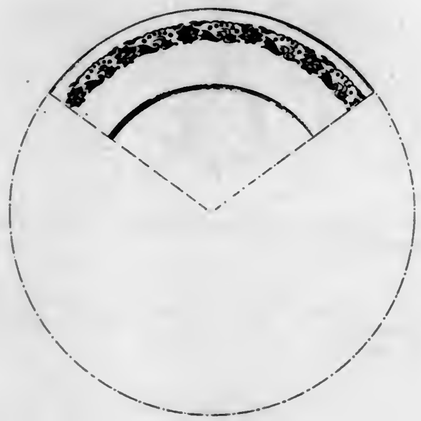
The ornamental design for a shoe as shown.

82,470. FINGER RING OR SIMILAR ARTICLE. JACOB BERLINGER, Brooklyn, N. Y. Filed Aug. 21, 1930. Serial No. 36,728. Term of patent 14 years.



The ornamental design for a finger ring or similar article, substantially as shown.

82,471. PLATE. BERNARD N. KANE, East Liverpool, Ohio, assignor to Warwick China Company, Wheeling, W. Va. Filed Sept. 16, 1930. Serial No. 36,984. Term of patent 7 years.

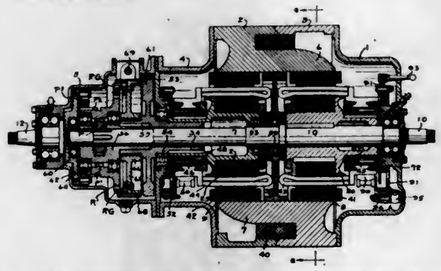


The ornamental design for a plate, as shown and described.

PATENTS

GRANTED NOVEMBER 4, 1930

1,780,150. ELECTROMAGNETIC TRANSMISSION MECHANISM. CHARLES E. F. AHLM, Cleveland, Ohio, assignor to Continuous Torque Transmission Company, Cleveland, Ohio, a Corporation of Delaware. Filed Apr. 29, 1926. Serial No. 105,445. 18 Claims. (Cl. 172—239.)

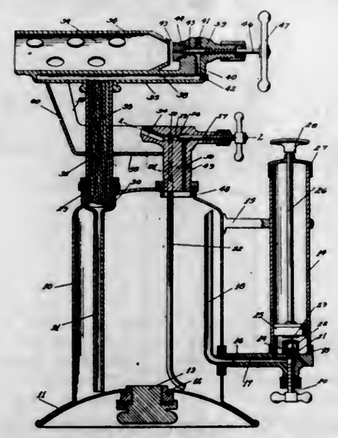


1. In a change speed gearing, the combination of two armatures, a common field therefor, a driving member connected with one armature, a driven member having a gear rigid therewith, a gear on the driving member and an internal external gear meshing with both said gears, an eccentric bearing for said internal external gear revoluble with and rigidly connected to the other armature.

1,780,151. PROCESS OF ESTERIFYING CELLULOSE. FRANZ BECKER, HEINRICH HEIMANN, and ALFONS BAYERL, Dessau in Anhalt, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Dec. 22, 1928, Serial No. 328,050, and in Germany Dec. 24, 1927. 11 Claims. (Cl. 260—101.)

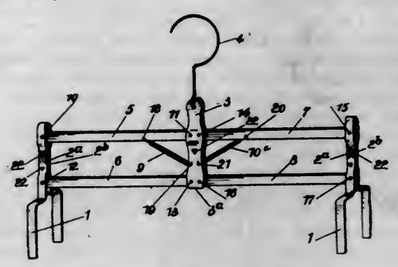
1. A process of producing cellulose esters which comprises treating a cellulose material with nitric acid vapor and reacting on the so pre-treated material with any esterifying agent.

1,780,152. BLOWTORCH. HENRY BIRNBAUM, Shelton, Wash. Filed Feb. 18, 1929. Serial No. 340,893. 2 Claims. (Cl. 158—33.)



1. A blow torch comprising a closed receptacle constituting a fuel reservoir, pump means carried thereby and communicating therewith for placing the fuel under pressure, a tube mounted within the receptacle and extending from the top to a point near the bottom thereof, the upper end of said tube being enlarged, a wick tube detachably mounted within the enlarged upper end of said first named tube and containing a wick, a burner structure carried by the upper end of said wick tube and including a horizontally elongated generating chamber and a passage therebeneath, the passage communicating with the upper end of the wick tube, a valve nozzle forming part of the burner structure located beyond one end of the generating chamber and communicating with said passage, and a priming nozzle mounted on the receptacle in spaced relation to the wick tube and provided with a valve controlled outlet passage to which is connected a tube leading into and terminating near the bottom of the receptacle.

1,780,153. TROUSERS HANGER. KAREL FRANCSICS, Budapest, Hungary. Filed Oct. 16, 1928, Serial No. 312,889, and in Hungary Aug. 2, 1928. 3 Claims. (Cl. 223—67.)

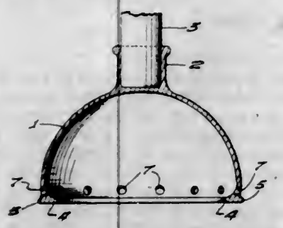


1. A trousers hanger including a pair of stretching members adapted to be inserted in the lower ends of the legs of a pair of trousers, two guiding devices carrying the stretching members for ensuring of the simultaneously parallel movement thereof, each guiding device being in the form of a pivoted double rod parallelogram and of which each stretchng member forms a part, and segments formed on the adjacent ends of the rods of each parallelogram and intermeshing with each other so as to positively unite the guiding devices together.

1,780,154. MANUFACTURE OF HIGH-PURITY CARBON. DANIEL GARDNER, Ruell, France. Filed Oct. 10, 1927, Serial No. 225,403, and in Great Britain Mar. 5, 1927. 5 Claims. (Cl. 134—60.)

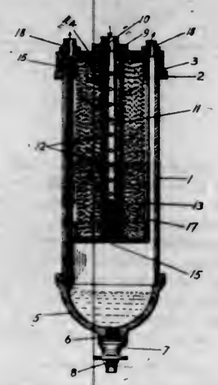
1. In the method of obtaining substantially chemically pure impalpable carbon from solid carbonized material containing organic and inorganic impurities, the steps comprising reducing said impure material to impalpability, and boiling same at ordinary pressures with caustic alkali solution of high concentration to render water-soluble any silica contained in said material and to render lime, magnesia, alumina, titanium oxide and like other impurities amenable to extraction by hot concentrated nitric acid, separating solids from said alkali solution, washing them with water to remove said soluble silica, treating the washed solids at elevated temperature with nitric acid of high concentration to extract such other impurities, removing the solid product and washing same, again reducing it to impalpability and heating it at temperatures of the order of 1000° to 1300° C. under nonoxidizing conditions to expel organic impurities and eliminate moisture.

1,780,155. WASHING DEVICE. FRED A. HAHN, East Moline, Ill. Filed July 19, 1929. Serial No. 379,495. 1 Claim. (Cl. 68—5.)



A washing device for the purpose set forth comprising a cup-shaped body of strong but compressible rubber, said body having the outer surface of its mouth flat and provided with an inwardly extending flange and an outwardly projecting bead, the body at the juncture of the bead or flange being thickened to render the beaded portion of the mouth practically non-yieldable and to permit of the inward yielding of the edge of the flange, said body above the flange and bead being provided with an annular series of openings whose walls are inclined downwardly, and a socket extension formed on the top of the body for the reception of an operating stick.

1,780,156. APPARATUS FOR EXTRACTING MOISTURE FROM AIR. FREDERICK ROBERT HALL, Arncliffe, near Sydney, New South Wales, Australia. Filed Oct. 10, 1928, Serial No. 311,689, and in Australia Nov. 10, 1927. 2 Claims. (Cl. 183—78.)

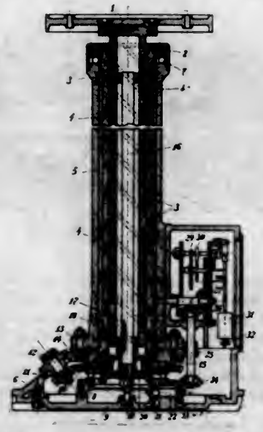


1. Apparatus for extracting moisture from air comprising a container, an air tight cover connected thereto and provided with a central threaded opening and with an opposed threaded opening near the outer edge thereof, a moist air inlet in communication with the central opening in said cover, a perforated moist air admission receptacle having one end threaded and engaged in the central opening and arranged within the container, a strainer consisting of a piece of wire gauze of spiral form within the container and surrounding the said receptacle, means associated with the container for the passage of water therefrom, and threaded nipple outlets engaged in the other openings in the cover for the passage of dry air from the container.

1,780,157. COMPOSITE LUBRICANT. JOHN ALLEN HIGGINS, St. Joseph, Mo., assignor to Emma Higgins, St. Joseph, Mo. Filed Mar. 3, 1927. Serial No. 172,572. 3 Claims. (Cl. 87—9.)

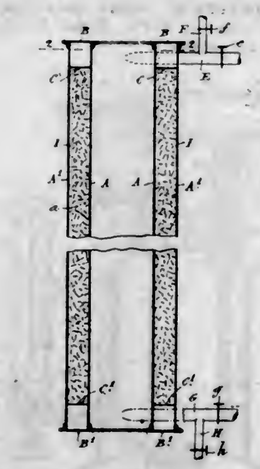
2. A composite lubricant comprising a mixture of substantially one pound of caoutchouc dissolved in gasoline, substantially twenty-five gallons of a neutral mineral lubricating oil and approximately eight ounces of cocoanut oil, added to and mixed with substantially fifty gallons of castor oil having substantially fifty gallons of cotton seed oil mixed therewith.

1,780,158. ADJUSTABLE STAND FOR ROTATABLE BALANCES. WILLY PAUL JENNY, Strasburg, Ohio, assignor to the Firm Exploration G. m. b. H., Hanover, Germany. Filed Jan. 16, 1929, Serial No. 332,899, and in Germany Jan. 9, 1928. 5 Claims. (Cl. 265—1.)



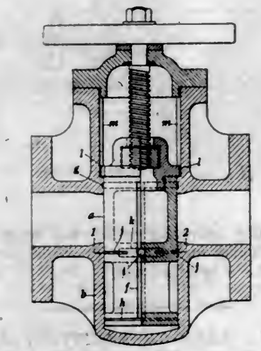
1. In an adjustable stand for a rotatable balance for executing geophysical measurement, a support of the measuring device, means for simultaneously turning and sinking said support and means for regulating such turning and sinking movements.

1,780,159. APPARATUS FOR THE HOT PURIFICATION OF GASES. ALFRED JOSEPH, Enghein, France, assignor to Compagnie Internationale pour la Fabrication des Essences et Petroles, Paris, France, a Company of France. Filed July 30, 1928, Serial No. 296,288, and in France Oct. 6, 1927. 6 Claims. (Cl. 183—4.)



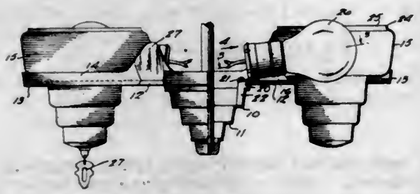
1. Apparatus for the purification of distillation gases comprising inner and outer tubular walls providing an annular space therebetween for the passage of distillation gases to be purified and said inner wall providing an open space enclosed therein, whereby heat is radiated from the surfaces of both of said walls, means forming annular chambers adjacent the ends of said walls for conducting gases to and from said space, and means for severally conducting and discharging distillation gases to be purified and regenerating gases to and from said chambers.

1,780,160. VALVE. ROBERT WILLIAM LEACH and WILLIAM HENRY BATEMAN, Newport, England. Filed Jan. 17, 1929, Serial No. 333,073, and in Great Britain Jan. 21, 1928. 2 Claims. (Cl. 251—62.)



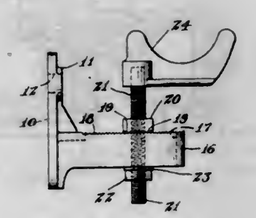
1. In a valve, a body part having a passage, a cylindrical member slidable axially within said body part, the body part and cylindrical member having adjacent working faces, lubricant distributing channels in the body part and cylindrical member, said channels surrounding the valve passage, and means for supplying lubricant to the channels under pressure, certain of the channels moving out of communication with other channels when the movable member is moved from one position to another.

1,780,161. LIGHTING FIXTURE. HARRY AGLOW, Philadelphia, Pa., assignor to Gill Glass and Fixture Company, a Corporation of Delaware. Filed Mar. 2, 1929. Serial No. 344,065. 8 Claims. (Cl. 240—78.)



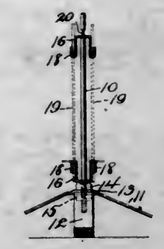
1. In a lighting fixture, a chandelier body having a central portion and narrow radially extending arms each terminating in a shade receiving and supporting basket, a lamp socket mounted on each arm with its axis substantially horizontal and the socket opening toward the corresponding basket, and a translucent glass shade fitted in each basket, the shades being open at the top and having side apertures to receive the lamp sockets and being freely removable from the chandelier body in the absence of lamp bulbs in the sockets without disturbing the sockets, the baskets and shades being spaced from one another so that the sides of the shades are visible from substantially all directions.

1,780,162. UNIVERSAL RADIATOR BRACKET. SAUL C. APPEL, Medford, Mass. Filed Nov. 27, 1928. Serial No. 322,219. 3 Claims. (Cl. 248—17.)



1. In a device of the kind described, the combination of a base provided with an elongated slot adjacent to one end, a member mounted on said base and extending laterally outward therefrom, said member being provided with an elongated slot, a plurality of parallelly arranged serrations in one surface of said member, a threaded member passing through said elongated slot, an internally threaded member mounted on said threaded member and provided with teeth for engaging in the serrations of the first said member, and an internally threaded nut on the threaded member cooperating with the first said internally threaded member and with the laterally extending member for clamping the threaded member in adjusted position on the laterally extending member and a supporting yoke carried on the threaded member.

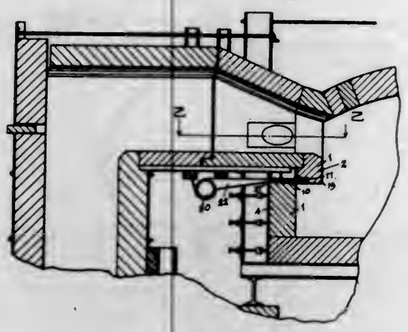
1,780,163. STAND. CARL E. ANDERSON, East Orange, N. J., assignor to Eastern Tool & Mfg. Co., Bloomfield, N. J. Filed Jan. 23, 1929. Serial No. 334,544. 5 Claims. (Cl. 40—146.)



1. A stand comprising a post, a pair of legs of bridge-like form and adapted to be nested while on the post, and having holes through which the post passes, a stop on the post above the legs and a nut on the post underneath the legs.

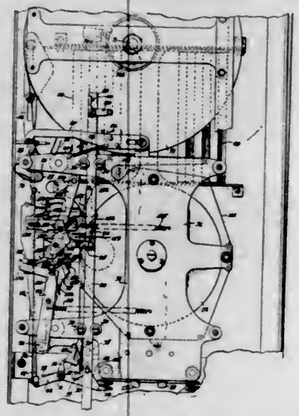
3. A stand comprising a base and rotatable post thereon, a U-shaped clip on the post and having a hole in the cross-strip thereof to receive the post, the clip having an outwardly projecting bendable ear at the end thereof.

1,780,164. GLASS TANK. GEORGE W. BATCHTELL, Toledo, Ohio. Filed June 29, 1929. Serial No. 374,679. 7 Claims. (Cl. 49—54.)



1. In a glass tank formed of blocks, a metal plate protruding over and located in proximity to the surface of the glass, and means for protecting the upper surface of the plate from the heat of the furnace.

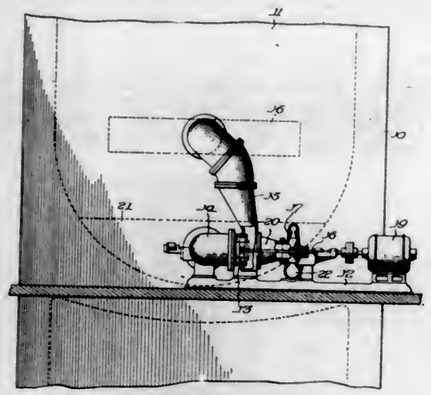
1,780,165. COIN-CONTROLLED WEIGHING MACHINE. HARRY S. BENJAMIN, Detroit, Mich. Filed Oct. 7, 1927. Serial No. 224,580. 19 Claims. (Cl. 194—35.)



1. In a machine of the character described, the combination of a weight printing wheel, a weighing platform, means operated by said platform for positioning said printing wheel, means for making an impression from said wheel, means for storing energy to operate said impression means, locking means for locking said energy storing means, means to actuate said locking means controlled by the operation of said platform for releasing said energy storing means, whereby said impression means will not operate to print from said printing wheel when there is no weight on the platform, and coin controlled means for controlling the operation of said releasing means.

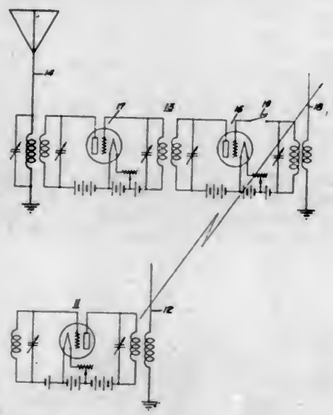
1,780,166. AGITATOR. JOSEPH E. BOND, Appleton, Wis. Filed Mar. 14, 1928. Serial No. 261,555. 5 Claims. (Cl. 259–96.)

1. In combination, a storage tank, an agitating pump associated therewith, said pump developing a minimum head of the liquid treated, and a centrifugal pump connected to the outlet from the circulating pump, said



centrifugal pump operating under the head created by said agitating pump and serving to withdraw a quantity of the liquid for a specified use.

1,780,167. RADIO TRANSMITTING APPARATUS. WILLIAM M. BROWER, Palo Alto, Calif., assignor to Federal Telegraph Company, San Francisco, Calif., a Corporation of California. Filed Mar. 20, 1928. Serial No. 263,010. 1 Claim. (Cl. 250—17.)



A radio station transmitting equipment comprising a main antenna, electron relay amplifying means having output and input circuits, the output circuit being coupled to said main antenna, said means serving to amplify oscillatory energy impressed upon its input circuit without integration, a relatively small local antenna coupled to said input circuit, a local master oscillator of the electron relay type and operative to generate oscillations of radio frequency, and another local antenna coupled to said oscillator, said last local antenna being sufficiently small as to have substantially no tendency to vary the frequency of the oscillator, said local oscillator and said last local antenna being electrically isolated from said amplifying means and said first local antenna and transferring energy thereto solely by radiation.

1,780,168. DEVICE FOR DISTRIBUTING FOAM FOR FIRE-EXTINGUISHING PURPOSES. HANS BURMEISTER, Berlin, Germany, assignor to Pyrene-Minimax Corporation, a Corporation of Delaware. Filed Sept. 10, 1927, Serial No. 218,808, and in Germany Sept. 25, 1926. 5 Claims. (Cl. 299—144.)



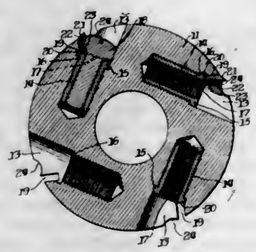
1. A fire foam distributing device comprising a duct with a plurality of foam outlets spaced along the length thereof, each outlet having a chamber projecting into the duct and adjustable to direct more or less foam to the outlet, the cross-sectional area of the duct being reduced in steps at the outlets.

1,780,169. SNAP-ON CLIP. WESTON F. CHADBOURNE, Franklin, Mass. Filed May 14, 1928. Serial No. 277,549. 7 Claims. (Cl. 152—14.)



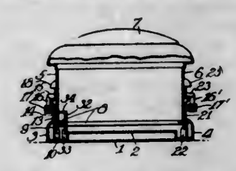
1. In a tire chain, a spring clip having a U-shaped yieldable body terminating at one side in a rolled yielding channel for detachably engaging one strand of a side link and at the other in a curved outwardly concaved flange for engaging the curved outer end of a cross chain hook.

1,780,170. CUTTER HEAD. ALEX A. CLARKE, Chicago, Ill. Filed June 21, 1928. Serial No. 287,311. 16 Claims. (Cl. 144—230.)



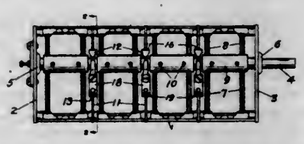
1. A cutter head of the class described having elongated slots across its peripheral face, cutter blades positioned in said slots, hollow screws secured in said head to constitute seats for said cutter blades and additional screws threaded in said hollow screws to detachably hold the cutter blades locked against said seats.

1,780,171. BURIAL-CASKET ATTACHMENT. JOHN Q. CLARKE, Crawfordsville, Ind. Filed Apr. 23, 1928. Serial No. 272,306. 5 Claims. (Cl. 27—2.)



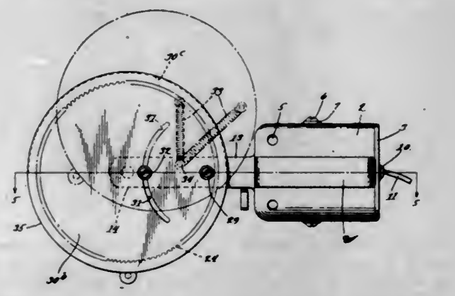
1. A burial casket attachment comprising a hinge plate having foot members thereon, a handle plate hingedly connected to the hinge plate and provided with a handle bracket, and a handle having an arm connected to the bracket.

1,780,172. ELECTRICAL CONDENSER. STANLEY S. CRAMER, Haddon Heights, N. J., assignor to Radio Condenser Company, Camden, N. J. Filed May 10, 1929. Serial No. 361,943. 7 Claims. (Cl. 175—41.5.)



1. In an electrical gang condenser including; a frame, a plurality of groups of stator plates supported by the frame, a rotatable system comprising a single shaft supported by the frame and carrying a plurality of groups of rotor plates for cooperation with said stator groups, said shafts being supported by anti-friction bearings in said frame, and a device for applying a desired amount of friction to said rotatable system; said device consisting of at least two pieces guided by a part of the frame and embracing opposite portions of said shaft, and means for drawing the pieces toward each other to grip the shaft.

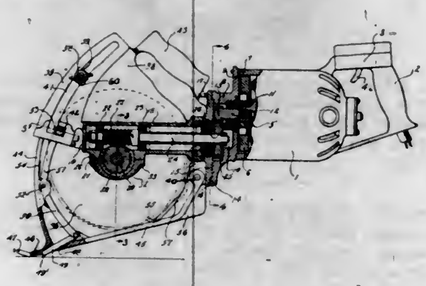
1,780,173. PORTABLE TOOL. JOHN M. CROWE, Covington, Ky., assignor, by mesne assignments, to The Stanley Works, New Britain, Conn., a Corporation of Connecticut. Filed Sept. 25, 1922. Serial No. 590,553. 4 Claims. (Cl. 143—43.)



3. In a portable power driven hand saw adapted to be applied bodily to and moved along the work by the operator, a frame, a rotary saw blade operatively mounted at the front thereof, a motor on said frame rearwardly

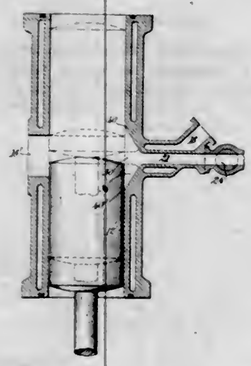
of and having driving connection with said blade, blade-guarding means pivoted to the frame between the blade and the motor and movable about said pivot in the plane of the blade to advance or retreat to guard or expose a cutting portion of the blade and having a portion adapted to travel along the work, and automatic means effective in all tool positions and tending to advance said guarding means.

1,780,174. PORTABLE POWER SAW. JOHN M. CROWE, Covington, Ky., assignor, by mesne assignments, to The Stanley Works, New Britain, Conn., a Corporation of Connecticut. Filed Jan. 16, 1928. Serial No. 247,056. 2 Claims. (Cl. 143—43.)



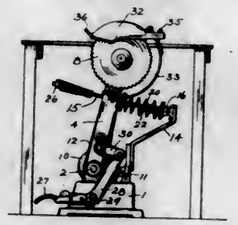
1. In a portable tool, a frame, a cutting blade operatively mounted thereon, means for operating said blade, guarding means adapted to advance or retreat to guard or expose a cutting portion of said blade, means tending to advance said guarding means, latch means for securing said guarding means against accidental retreat, said guarding means having a work-engaging portion with a forwardly and downwardly extending bore therein, means slidable longitudinally in said bore and positioned thereby and associated with said latch means to actuate the same, and extending longitudinally into the path of the work to be engaged thereby to release said guarding means.

1,780,175. TWO-CYCLE INTERNAL-COMBUSTION ENGINE. CHARLES G. CURTIS, New York, and EARLE R. NEWTON, Jamaica, N. Y. Filed Mar. 17, 1928. Serial No. 262,354. 8 Claims. (Cl. 123—61.)



5. A two-cycle engine comprising a cylinder, exhaust ports, a bank of air inlet ports on one side of the cylinder, an inlet port in the middle section of the bank higher than the exhaust ports and arranged to deliver an air stream obliquely toward the cylinder cover, a valve for controlling said latter inlet port, the end inlet ports being lower than the exhaust ports and arranged to deliver air streams more nearly horizontally and toward that side of the cylinder in which the inlet ports are located, the arrangement being such that all the inlet ports open after the exhaust ports, that the end inlet ports close before the exhaust ports and the middle inlet port closes after the exhaust ports whereby a supercharge is established in the cylinder.

1,780,176. SAWING MACHINE. ARTHUR E. DE KONING, Portland, Oreg. Filed Feb. 25, 1928. Serial No. 256,931. 2 Claims. (Cl. 143—46.)



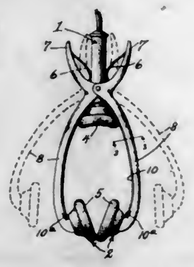
1. In sawing machines, a base, a saw carriage pivotally mounted thereupon, a rod pivotally attached to said base above the said pivotal attachment of the said saw carriage at one end extending through the said saw carriage and fitted with an adjusting screw and nut at its other end, a pair of oppositely disposed reflecting springs mounted upon said rod so as to engage the said saw carriage at either end of the stroke thereof, a relatively larger spring to return the said saw carriage to its position of equilibrium whereat said spring will be strained in neither direction, having a greater amplitude of movement in compression or extension than either one of said pair of reflecting springs, rigidly secured to the said saw carriage at one end and to the said base or an extension thereof at the other end and of such length relative to the said reflecting springs and the said rod as to be compressed when said saw carriage makes contact with one of said reflecting springs, and be extended when said saw carriage makes contact with the other of said reflecting springs, together with a treadle and connecting gear for oscillating said saw carriage.

1,780,177. BACK-PART STAY. WILLIAM J. DE WITT, Auburn, Mass., assignor to Shoe Form Co., Inc., Auburn, N. Y., a Corporation of New York. Filed June 11, 1929. Serial No. 370,028. 6 Claims. (Cl. 12—128.1.)



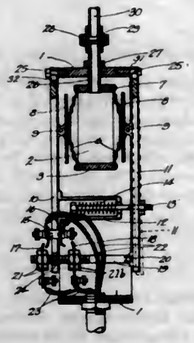
1. A back part stay for a shoe form comprising a tube of celluloid or similar material, and a resilient wire inserted into the hollow of the tube, one end of the wire projecting from the tube while the other end is encased, the ends of the back stay being formed into loops both offset from the body of the stay in the same direction.

1,780,178. TELEPHONE HEAD SET. ADIEL Y. DODGE, South Bend, Ind. Filed Apr. 22, 1929. Serial No. 357,027. 5 Claims. (Cl. 179—156.)



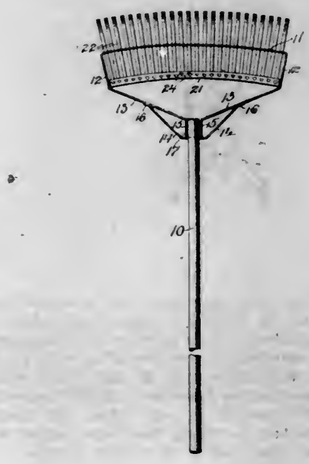
1. A transmitter and receiver construction comprising a transmitter, a receiver secured thereto comprising an ear-piece, means for yieldingly holding said ear-piece against the ear comprising a member engaging the other side of the head of the wearer and means for forcing said ear-piece and head-engaging member away from each other to facilitate positioning the ear-piece, comprising a pair of members movable toward each other to force the head-engaging member and ear-piece apart, said pair of members being close enough together to be grasped in one hand.

1,780,179. ADJUSTABLE HIGH AND LOW PRESSURE SWITCH ALARM. WILLIAM C. ELLIOTT, Minco, and EARL S. HENRY, Medford, Okla. Filed July 3, 1928. Serial No. 290,237. 5 Claims. (Cl. 200—83.)



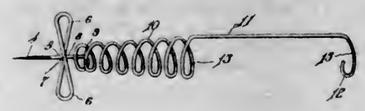
1. A device of the class described, comprising a three part union having therewithin perforated baffle plate means for controlling the sudden fluctuating pressures into and out of a pressure chamber, a pressure chamber having an opening connecting with said union, and having oppositely disposed side diaphragms hermetically sealed longitudinally of said chamber, said diaphragms being adapted for expanding and contracting upon the inflow and outflow of a liquid pressure thereagainst, a frame anchored intermediate said union and said pressure chamber having first and second swinging arms depending therefrom, said arms having pressure plates for contacting said diaphragms, means for adjustably holding said pressure plates against said diaphragms, an attaching rod in hinged relation to said first of said arms being adapted for free movement through a perforation in said second arm; said attaching rod being adapted for anchoring a high and a low contacting point with said second arm therebetween, said second arm having a high and a low contacting point respectively on its sides, said high contacting points being adapted to close an electric circuit upon the occurrence of a predetermined position, and to break said circuit in all other positions, and said low contacting points being adapted to close an electric circuit upon the occurrence of a predetermined position, and to break said circuit in all other positions.

1,780,180. RAKE. HENRY W. FALSTROM, Bloomfield, N. J., assignor to Eastern Tool & Manufacturing Company, Bloomfield, N. J. Filed Dec. 15, 1927. Serial No. 240,163. 3 Claims. (Cl. 55—10.)



1. A rake comprising a frame formed of a flat strip bent so as to provide a front bar with converging rearwardly extending side bars and which connect with inwardly extending braces which are provided with return bends with the ends of the strip secured to the braces, a rear bar connected to the side bars in rear of the front bar, and tines passing through slits in the front bar and the rear bar and with their rear ends bent over on the rear bar to hold the tines in place and providing a ready releasing means for a broken tine.

1,780,181. TREE-BRANCH HOLDER. CHARLES A. FASSEN, Detroit, Mich. Filed Mar. 15, 1928. Serial No. 261,756. 4 Claims. (Cl. 41—15.)



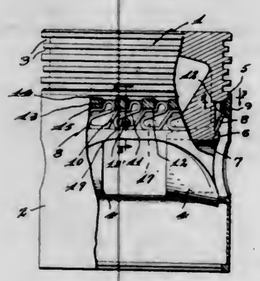
1. A holder having a pointed end, a series of convolutions, an arm extending outwardly from the outermost extremity of said convolutions, and a hook on the end of said arm, the convolutions being adapted to receive the end of an inserted member, and the hook being adapted to engage said inserted member at a remote point from the convolutions.

1,780,182. HAIR AND SCALP TREATING APPARATUS. ERNEST O. FREDERICS, New York, N. Y., assignor to E. Frederics, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 8, 1926. Serial No. 153,300. 16 Claims. (Cl. 34—16.)



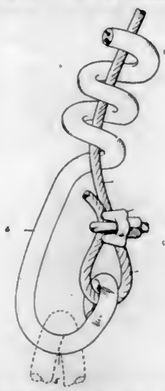
2. A hair-drying machine, including, in combination, a standard, means for forcing a current of gaseous fluid through said standard, a pair of elbow members, one connected to said standard, means providing an outlet member connected with the second of said elbow members, means for connecting the inner ends of said elbows to rotate axially with respect to each other, and means for locking said members to remain fixed with respect to each other in at least one position of relative rotation.

1,780,183. PISTON. PHELPS M. FREER, Detroit, Mich. Filed June 17, 1929. Serial No. 371,577. 9 Claims. (Cl. 74—108.)



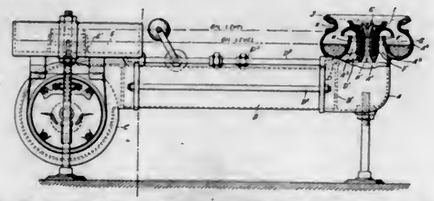
1. In a piston, the combination with head and skirt members, of means for securing said head and skirt members together, including a wire, said means associated with said wire and one of said head and skirt members for establishing a cam engagement therebetween upon relative rotation of said last mentioned member and said wire.

1,780,184. CABLE-TERMINAL HOOK. KENNETH GLEASON, Hibbing, Minn. Filed Sept. 27, 1929. Serial No. 395,641. 1 Claim. (Cl. 24—123.)



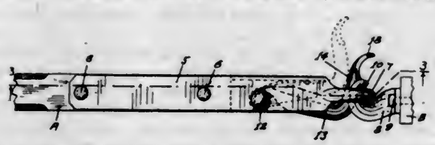
A hook of the class described, helically shaped at one end, and having a hook at the opposite end terminating in an eye, an elongated substantially straight body portion intermediate the hooked end and the helical portion, the axis of the eye being at an angle to the axis of the hook for the purpose described.

1,780,185. OIL BURNER. ALBERT E. GRANT, New York, N. Y., assignor to Grant Heat Machine Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 11, 1928. Serial No. 253,580. 2 Claims. (Cl. 158—92.)



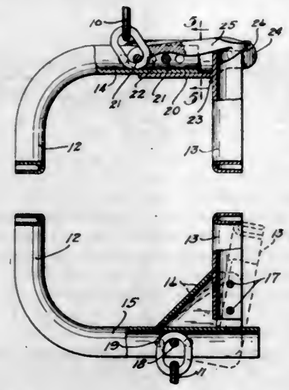
1. In combination, two independent oil burners located adjacent to each other and adapted to be operated separately or simultaneously, an air chamber and conduits for air leading therefrom to each of said burners, said burners comprising annular chambers for oil, one of which is open and exposed at its upper end directly to the atmosphere, and means for deflecting air from said air chamber downwardly into said open annular oil chamber to provide a fuel mixture.

1,780,186. HITCH. JOHN L. HAGEL, St. Paul, Minn., assignor to The Hagel Wagon Spring Bolster Co., St. Paul, Minn., a Corporation of Minnesota. Filed Nov. 1, 1929. Serial No. 404,150. 4 Claims. (Cl. 280—33.15.)



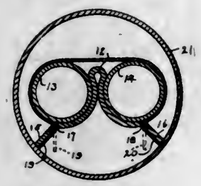
1. A hitch for detachably connecting a tongue to the rear of a pulling vehicle, comprising a hook member secured to the vehicle, a bracket member secured to the tongue and having a curved bar portion for engagement with the hook, a lever member carried by the bracket for engagement against the hook, said hook being provided at its rear with a recess to receive the lever.

1,780,187. STANCHION. CASPER F. HANSON, Albert Lea, Minn., assignor to Olson Manufacturing Company, Albert Lea, Minn., a Corporation of Minnesota. Filed Mar. 8, 1928. Serial No. 260,011. 8 Claims. (Cl. 119—147.)



1. A stanchion comprising main and secondary side members, top and bottom members, a latch in the top member for the secondary side member, and a hinge fitting connecting the secondary side member to the bottom member for outward swinging movement from a closed position in the plane of the stanchion, said hinge fitting having guide flanges that engage the bottom member and direct the secondary side member to the latch during its closing movement.

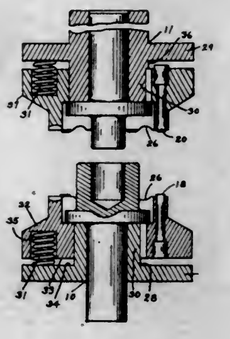
1,780,188. SUPERHEATER BRACKET. ERNEST A. HILDEBRANDT, Indianapolis, and CHARLES MCDONAUGH, Beech Grove, Ind. Filed July 23, 1928. Serial No. 294,667. 3 Claims. (Cl. 248—34.)



1. A pipe bracket for maintaining pipes in spaced alinement comprising a piece of sheet metal formed to have a shoulder conforming to the curvature of the pipes, the metal being carried from the shoulder around and upwardly between one pipe and the next adjacent pipe and thence bent around back against itself to return between the same two pipes forming a separator between the pipes and to continue around under the second pipe to form a shoulder thereunder, both shoulders of the bracket terminating close to vertical planes through the centers of their respective pipes, said separator having a greater thickness above than at a plane through the center lines of the pipes, and legs extending from the shoulders having slots at their junctions with the shoulders.

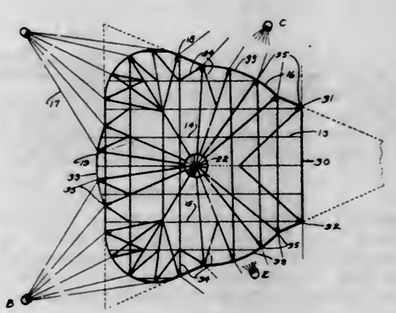
1,780,189. RIVETING STAYS OR RIVETS IN BALL BEARINGS. GEORGE O. HODGE, Plainville, Conn., assignor to Standard Steel and Bearings Incorporated, Plainville, Conn., a Corporation of Delaware. Filed Nov. 17, 1928. Serial No. 320,163. 1 Claim. (Cl. 78—49.)

In riveting the stays or rivets for the cage members of ball bearings, upper and lower die structures provided with mating guide means, and each of said die structures being composed of a main part and a moving part arranged for relative sliding movement in the axial direction, spring means operating to position said moving part normally generally in an advanced position relatively to said main part, said moving part being provided with



a set of concave seats for receiving convex portions of a cage member, and riveting means loosely carried by said moving parts positioned between said seats and adapted to be actuated by said main parts, whereby upon initial movement of said die structures to clamp ball bearing cage members, said riveting means will yield and thereafter be actuated by the further advance of said main parts.

1,780,190. PARACHUTE. EDWARD L. HOFFMAN, Dayton, Ohio. Filed Aug. 28, 1929. Serial No. 389,055. 8 Claims. (Cl. 244—21.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)

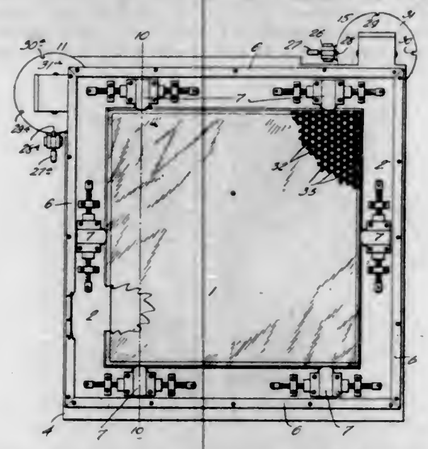


6. A parachute comprising a canopy having a flat single sustaining surface, suspension lines attached to said canopy and means offset from the center of the area of said canopy when inflated for laterally venting the air from the side thereof to propel said parachute substantially horizontally.

1,780,191. APPARATUS FOR MAKING PHOTOGRAPHIC FRACTIONAL EXPOSURES. WILLIAM C. HUEBNER, Chicago, Ill. Filed May 28, 1928. Serial No. 281,185. 9 Claims. (Cl. 95—36.)

1. The combination of a screen for fractional exposure of a sensitized surface, which screen has its area composed of transparent units and opaque units arranged in such an order that by adjusting the screen from one position to another with a right line movement in two

directions from a given point a transparent unit and an opaque unit are caused to exchange positions, a holder



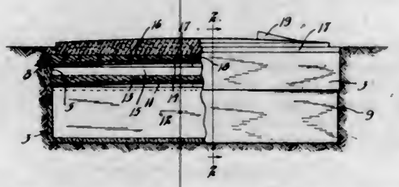
on which said screen is mounted; and means for effecting movement of said screen in said two directions relative to said holder.

1,780,192. DEFLECTING RIM FOR BOILERS AND WASHING MACHINES. ANDREW JACKSON, Binghamton, N. Y., assignor of one-half to F. A. Haight, Johnson City, N. Y. Filed Feb. 7, 1928. Serial No. 252,653. 1 Claim. (Cl. 68—30.)



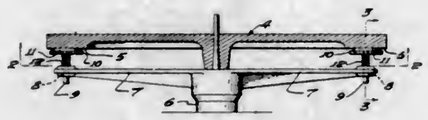
In a deflector for vessels and the like, opposing side plates and opposing end plates fitted together to form a complete detachable rim for resting upon the edge of a vessel, the inner edges of the said plates being disposed below their outer edges, said plates extending inward and downward from the upper edge of the vessel.

1,780,193. BURIAL VAULT. GEORGE W. JANDA, Bismarck, and ROBERT C. PLAGGMIER, Taylor, N. Dak., assignors to The National Survault Company, Bismarck, N. Dak., a Corporation. Filed Nov. 17, 1928. Serial No. 320,092. 2 Claims. (Cl. 72—7.)



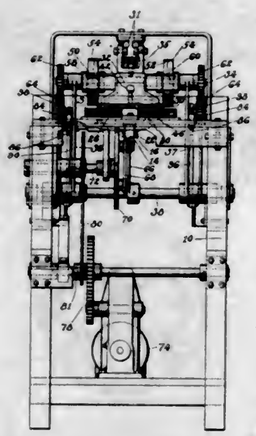
1. A sealing joint for a burial vault of the surface type having side and end walls, shoulders on said walls projecting inwardly therefrom and defining upper and lower portions of said vault, formed members resting on said shoulders and acting as a closure for the lower portion of said vault, outwardly projecting grooves in said side and end walls immediately above said formed members, and a poured layer of concrete on said formed members entering and filling said grooves and sealing the vault.

1,780,194. SOUND-REPRODUCING MACHINE. GEORGE KENDE, East Orange, N. J., assignor to Phonodise Corporation, New York, N. Y. Filed May 3, 1929. Serial No. 360,126. 2 Claims. (Cl. 188—83.)



1. The combination with a sound record turntable having an annular braking surface, of a plurality of fixed arms disposed below and adjacent to the turntable, and a resiliently pressed brake member carried by each arm and in contact with the braking surface.

1,780,195. SHEET-SEPARATING APPARATUS. FAY D. KINNEY, Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 5, 1928. Serial No. 324,028. 45 Claims. (Cl. 271—18.)



1. In an apparatus for separating successive sheets, a sheet-engaging projection, means for moving the projection and sheets relatively to cause the engagement of a sheet by the projection, and means for moving the projection and sheets relatively to draw the engaged sheet across the succeeding sheet in a direction generally opposite to the engaging movement.

1,780,196. PROCESS FOR THE EVOLUTION OF HYDROCYANIC ACID. HANS LEHRECKE, Frankfort-on-the-Main, Germany, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 20, 1925, Serial No. 63,787, and in Germany Oct. 27, 1924. 13 Claims. (Cl. 167—35.)

10. Product to be used in the destruction of pests consisting in a finely divided addition product of hydrocyanic acid and iron chloride with the presence of an excess of iron chloride.

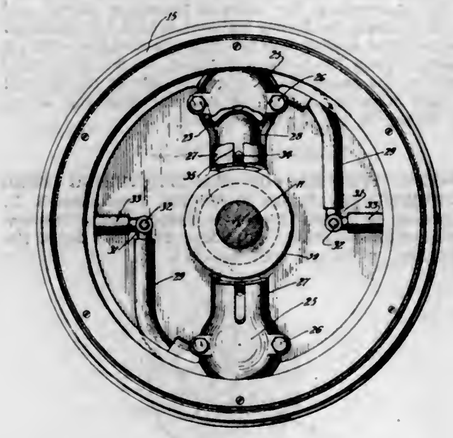
1,780,197. METHOD OF CAUSING THE SIMULTANEOUS EVOLUTION OF HYDROCYANIC ACID AND AN IRRITANT GAS. HANS LEHRECKE, Frankfort-on-the-Main, Germany, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 20, 1925, Serial No. 63,789, and in Germany Oct. 31, 1924. 8 Claims. (Cl. 167—35.)

8. A product for the simultaneous evolution of hydrocyanic acid and cyanogen chloride containing a mixture of an addition product of hydrocyanic acid and iron chloride with sodium hypochlorite.

1,780,198. PROCESS FOR STABILIZATION OF HYDROCYANIC ACID. HANS LEHRECKE, Frankfort-on-the-Main, Germany, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y., a Corporation of Delaware. Filed June 23, 1926, Serial No. 118,090, and in Germany July 3, 1925. 12 Claims. (Cl. 23—250.)

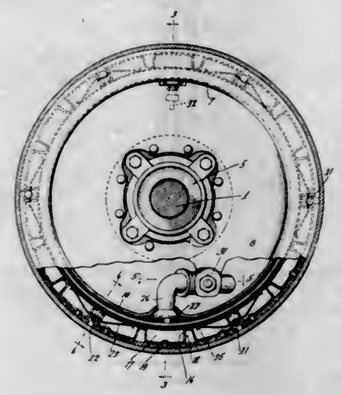
1. Process for stabilizing liquid hydrocyanic acid against polymerization or decomposition which comprises adding to said hydrocyanic acid an inorganic compound of a strong acid capable of hydrolysis under the conditions of storage of liquid HCN.

1,780,199. FLUID-PRESSURE-OPERATED DEVICE. BERT A. LINDERMAN, New York, N. Y., assignor to Linderman & Co., Wilmington, Del., a Corporation of Delaware. Filed June 22, 1925. Serial No. 38,704. 5 Claims. (Cl. 192—88.)



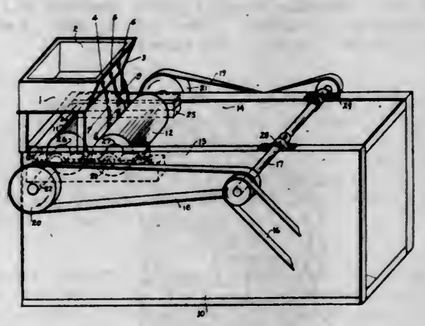
1. A fluid pressure operated device comprising a first transmission element, a second transmission element angularly movable with respect to said first element, movable means associated with one of said elements for effecting a power transmitting connection with the other, actuating means for said movable means comprising a closed hollow member having an inflatable and a depressible part, and adapted to contain a fluid pressure medium, said member being carried by the element with which said movable means is associated, a plunger adapted to act substantially radially upon said depressible part and an axially slidable actuating member operating on said plunger.

1,780,200. METALLIC SHOE FOR FLUID-PRESSURE-OPERATED BRAKES. BERT A. LINDERMAN, New York, N. Y., assignor to Linderman & Company, New York, N. Y., a Corporation of Delaware. Filed May 15, 1926. Serial No. 109,210. 15 Claims. (Cl. 188—152.)



1. In a device of the class described a brake shoe consisting of arcuate segments of sheet metal, at least one of said segments being formed with spacing lugs adapted to space it from the other segment of the shoe to form a space between the segments to provide an air circulating chamber to dissipate heat.

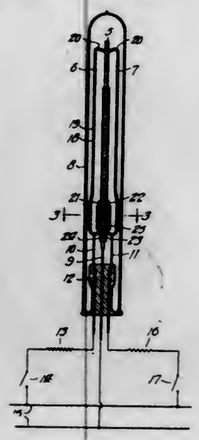
1,780,201. PROCESS AND MECHANISM FOR MAKING METAL PELLETS. DAVID MARTIN, Mansfield, Ohio, assignor to The Globe Steel Abrasive Company, Mansfield, Ohio, a Corporation of Ohio. Filed Aug. 13, 1928. Serial No. 299,146. 8 Claims. (Cl. 83—91.)



1. In the manufacture of metallic grit, the process of preparing pellets to be later comminuted, comprising the introduction of streams of molten iron between closely related opposing parallel surfaces of rotating rolls in the presence of a cooling liquid carried peripherally on the rolls and therebetween, flattening the streams between the rolls and breaking up the flattened molten iron by the combined effects of molecular cohesion of the metal and the conversion into steam of portions of the water in engagement with the flattened surfaces.

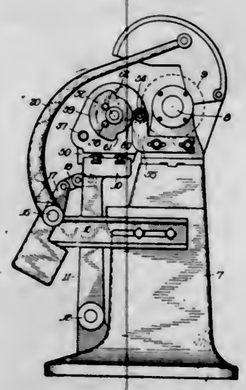
7. In a mechanism for forming metallic pellets, a roller for rolling molten metal into a sheet or ribbon, means for supplying molten metal to the roll to be rolled thereby, means for supplying a cooling fluid to the said ribbon or sheet substantially at that portion where it is rolled thinnest by the roller.

1,780,202. CIRCUIT-BREAKING DEVICE. CHARLES A. MARTIN, Chicago, Ill. Filed Nov. 26, 1928. Serial No. 321,904. 8 Claims. (Cl. 200—113.)



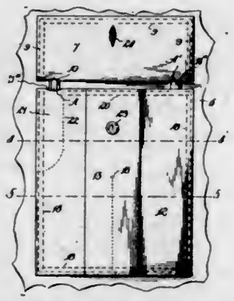
8. A circuit controlling device comprising a closed vessel having a non-oxidizing gaseous filling, an elongated bar magnet therein, a bimetallic thermostatic element therein composed in part of magnetic material whereby it is, attracted by said magnet, said magnetic material in said element extending substantially from one pole of said magnet to the opposite pole thereof to complete the magnetic circuit therefor, and lead in conductors extending through said vessel and secured to said element and magnet respectively.

1,780,203. FEED-CONTROL MEANS FOR TURNING MACHINES. CARL L. MATTISON, Rockford, Ill., assignor to Mattison Machine Works, Rockford, Ill., a Corporation of Illinois. Filed July 5, 1928. Serial No. 290,474. 1 Claim. (Cl. 142—10.)



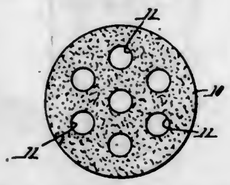
A lathe comprising a cutter and a work support one mounted so as to be movable with respect to the other through a substantial range, manual means for imparting said movement, a combined cam and pattern device, an abutment engaged thereby to govern a certain inner portion of said range, said cam device comprising a succession of pattern contours in radially stepped relation to each other, the engagement of which with said abutment determines the pattern of the cross-section of the work then being cut, while the steps or pronounced portions of the cam provide comparatively abrupt shifts of distance between the work and cutter, the angular pattern dimension of the cam of greater radius being sufficiently prolonged to control the complete cross-section of the work then being cut and so that when its engagement with the abutment is repeated its advance portion having spaced the cutter and work they remain spaced long enough to afford the operator full opportunity to manually complete the range of withdrawal movement.

1,780,204. POCKET STRUCTURE FOR GARMENTS. CLARENCE W. MASTIN, San Antonio, Tex. Filed Apr. 15, 1929. Serial No. 355,400. 1 Claim. (Cl. 2—253.)



A patch pocket for garments comprising a lining and facing material attached to each other around the edges thereof and to the garment at the edges of the sides and lower end to provide an inner or main pocket opening out at its upper end and an auxiliary pocket between the lining and facing material, a vertical box pleat formed on the outer side of the facing at the center thereof, and a slit through the facing material behind the center of the box pleat leading into the upper part of the auxiliary pocket between the facing and lining, the box pleat being sewed to the facing material at one side of the slit and to both sides of said facing material from the slit to the bottom of the auxiliary pocket.

1,780,205. PROCESS OF MANUFACTURING FUEL BRIQUETTES. HENRY F. MAUREL, Providence, R. I., assignor to Maurel Investment Corporation, a Corporation of Rhode Island. Filed Mar. 24, 1928. Serial No. 264,399. 5 Claims. (Cl. 44—14.)

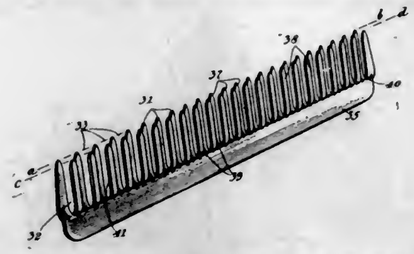


1. The process of producing fuel suitable for use in furnaces and the like from carbonaceous substances which comprises concentrating the same by the "froth flotation" process, reducing the moisture in the flotation concentrates to leave them in the form of a heavy paste, thereafter mixing said paste with a suitable liquid hydrocarbon, and finally baking the mixture.

1,780,206. COMB. ARCHIBALD D. MCKELLAR, Park Ridge, Ill. Filed Jan. 30, 1929. Serial No. 336,093. 9 Claims. (Cl. 132—11.)

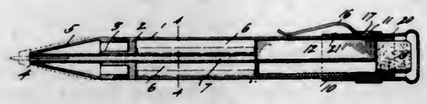
2. In the construction of a comb of the class described, the process of forming a blank having one edge serrated

to correspond to the points of the teeth, the opposite edge to correspond to the outer edge of the back or handle, and the ends to correspond to the outer edges of the end teeth; cutting the said blank from the points of indentation by a number of parallel cuts of adopted length, made



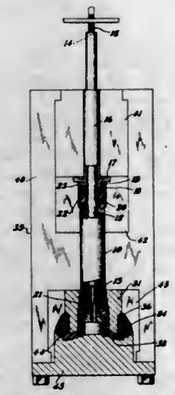
intermediate the ends to form strips of tooth form, attached to the bank or handle thereof; and bending an inner part of each of the said strips adjacent the back or handle thereof to form curved base portions to position the teeth in rows, and to provide tortuous transverse passageways.

1,780,207. MAGAZINE PENCIL. LEANDRO E. MELÉNDEZ, New York, N. Y. Filed Nov. 1, 1929. Serial No. 404,130. 6 Claims. (Cl. 120—14.)



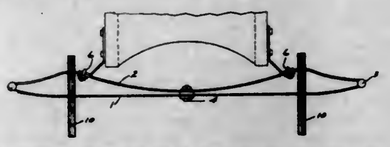
1. A magazine pencil including a barrel terminating in a writing point, a lead carrier fixed within the barrel immediately above the writing point and formed to provide a central channel in line with the writing point and a series of concentric channels for the reception of different leads, and means operative beyond the carrier with respect to the writing point to be positioned to receive a lead from a particular lead channel and transfer such lead to the central channel through longitudinal tilting of the pencil.

1,780,208. METHOD OF MAKING PUMP MEMBERS. VLADIMIR VICTOR MESSER, New York, N. Y., assignor to Seiberling Rubber Company, Barberton, Ohio, a Corporation of Delaware. Filed Dec. 7, 1929. Serial No. 412,504. 12 Claims. (Cl. 154—2.)



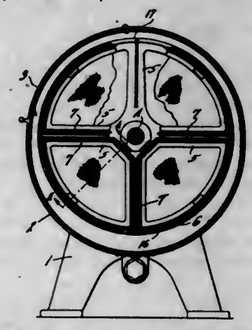
8. The method of making composite structures which comprises wrapping rubberized fabric upon itself around a rod mandrel to form a tubular stem, incorporating a metallic member in one end of the stem, applying the parts of a longitudinally-divided molding mandrel externally to that end of the stem, placing an annular, rubberized foot member around said molding mandrel, connecting said foot member and stem with a rubber foot web, vulcanizing the parts together upon the mandrels, and withdrawing the mandrels.

1,780,209. BUMPER RACK. WILLIAM E. V. SHAW, Minneapolis, Minn. Filed Apr. 28, 1930. Serial No. 448,132. 7 Claims. (Cl. 293—55.)



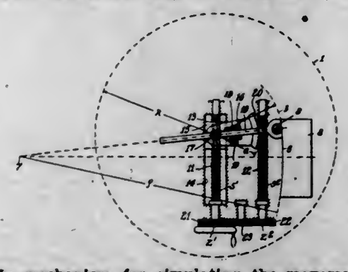
1. A bumper rack having a load-supporting portion, and opposed portions one of which is yieldable and adapted to move toward the other under tension to act as a clamp.

1,780,210. LAUNDRY APPARATUS. ALONZO D. STALEY, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 16, 1924. Serial No. 693,271. 1 Claim. (Cl. 68—18.)



In a machine of the character described, a rotatable shaft, frame means rotatable with said shaft, a work receiving container provided with an end wall and with side walls, one of said side walls providing a door, and a single means carried by said end wall for both maintaining said door in closed position and for latching said container to said frame means.

1,780,211. RADIUS-TEMPLATE-GRINDING MACHINE. HILDING VALDEMAR TÖRNEBOHM, Gottenborg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden, a Corporation of Sweden. Filed Dec. 8, 1928. Serial No. 324,757. 5 Claims. (Cl. 51—32.)



1. In mechanism for simulating the movement of the radius of a circle rolling along a straight line and for

causing a point thereon to generate a cycloidal curve, comprising a carriage, means for causing the traverse of the carriage, an oscillatory member pivotally mounted on the carriage for movement in a plane including the line of carriage traverse, means for so oscillating such member including means for timing the oscillation in relation to the traverse of the carriage, and a working tool mounted on the oscillatory member and adjustable radially thereof, the organization being such that the working tool is caused to generate a selected portion of a cycloid.

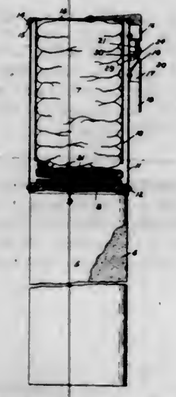
1,780,212. PROCESS OF PRODUCING A TWO-TONED FINISH ON METAL SURFACES. MARVIN J. UDY, Niagara Falls, N. Y. Filed July 28, 1927. Serial No. 209,176. 10 Claims. (Cl. 204—1.)

1. Process of producing a two-toned finish on a metal surface, comprising coating a portion of such surface with a substance that retards the action of electrodeposition on such portion but is gradually removed therefrom during such action; immersing said coated surface in an electroplating solution having an etching action on said metal during said period of retarded deposition, subjecting both coated and uncoated portions of such surface to an electroplating operation in said bath; and continuing such operation until after such coating has become removed and until both the coated and uncoated portions are plated with an electrodeposit.

1,780,213. METHOD OF PREPARING CHROMIUM-PLATED FERROUS ARTICLES. VINCENT M. VERTUCCI, Jersey City, N. J. Filed Oct. 7, 1926. Serial No. 140,219. 4 Claims. (Cl. 204—1.)

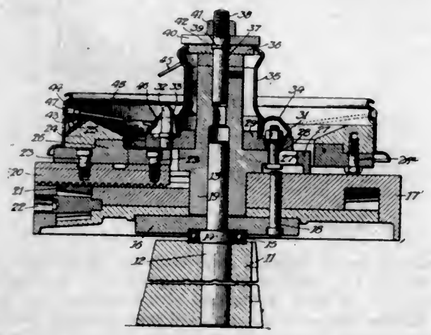
1. In the art of electrodepositing chromium on iron, steel and predominantly ferrous alloys, that improvement which comprises heating the aforesaid material of ferrous character to a dull redness, thereupon cooling the heated material, and immediately cleaning the surface of the cool material.

1,780,214. FLARE. SAMUEL WILEY, Metuchen, N. J. Filed Aug. 16, 1929. Serial No. 886,408. 8 Claims. (Cl. 102—124.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)



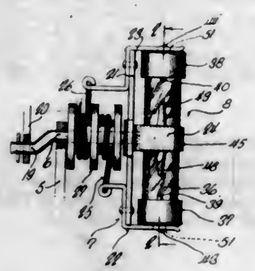
1. A flare embodying a light case having a tubular extension at one end thereof, a parachute container insertable in the extension and spaced therefrom, a cover on the outer end of the containr projecting beyond the extension to grip the edge thereof, a flare supporting member carried by the cover of the container and disposed along the outside of the extensioin and means for separably fastening the light case to the supporting member.

1,780,215. WIRE-WHEEL-ASSEMBLY DEVICE. MOSES W. H. WILSON, East Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a Corporation of Michigan. Filed June 10, 1929. Serial No. 369,728. 8 Claims. (Cl. 29—87.)



1. A device for assembling wire wheels comprising clamping members to hold the hub and rim in predetermined ultimate relative positions while lacing the wheel, said hub and rim clamping members relatively adjustable as to respective planes and angularly in such planes.

1,780,216. ELECTRICAL SWITCH. GUSTAV O. WILMS, Milwaukee, Wis., assignor, by mesne assignments, to The Reliance Company, Wilmington, Del., a Corporation of Delaware. Original application filed Apr. 14, 1921, Serial No. 461,288, now Patent No. 1,629,756, dated May 24, 927. Divided and this application filed Oct. 8, 1926. Serial No. 140,298. 10 Claims. (Cl. 200—152.)

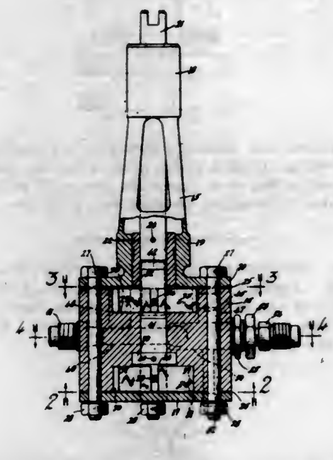


1. A double throw contactor switch comprising a hermetically sealed elongated glass container, an electrode fixed in each end of said container, a pair of electrodes each of which is positioned between the center of said container and one of the first named electrodes, a common support for said pair of electrodes comprising an inwardly extending integral shank adjacent the center of said container and extending downwardly from the upper wall thereof, a metallic member exterior of said container and supported thereupon, said pair of electrodes being electrically connected to said metallic member, and a body of conducting liquid movable beneath said electrodes and said support to and from contact with said electrodes.

1,780,217. PUMP MECHANISM. SUMNER WILTSE, Detroit, Mich., assignor to Wiltse Appliance Co., a Corporation of Michigan. Filed Aug. 25, 1927. Serial No. 215,817. 3 Claims. (Cl. 103—137.)

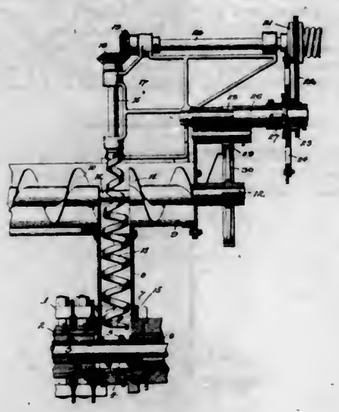
1. In a pump of the class described, a casing having a recess therein, a pump element in said recess, an

opening in one face of said casing, a second opening in another face of said casing of larger diameter than the first mentioned opening and in axial alignment therewith, said openings being connected together whereby a shoulder is formed at their point of connection, a passage connecting said second opening with said recess, a



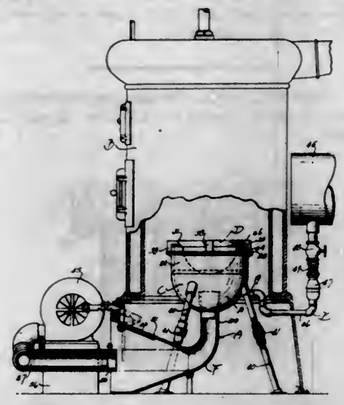
passage connecting said first mentioned opening with said recess, a member threaded into the outer end of said second opening, a ball within said second opening positioned against said shoulder, a spring held under compression between said member and said ball, a passageway through said member, and a filtering member in said second opening maintained in position by said spring.

1,780,218. FEEDING MECHANISM FOR PRESSES. RAYMOND T. ANDERSON, Cleveland, Ohio, assignor to The V. D. Anderson Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 28, 1926. Serial No. 119,183. 11 Claims. (Cl. 100—48.)



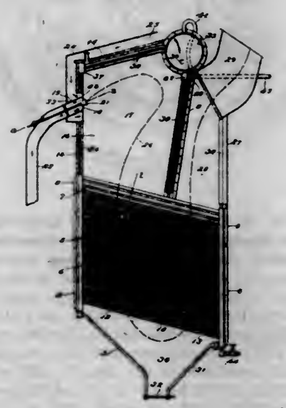
1. In a press, the combination of a shell; means located therein for effecting pressure upon material to be pressed; a feed inlet; a chute in communication therewith; a spiral element formed from spring material located within the chute; and means for rotating said element.

1,780,219. OIL BURNER. JAMES JOSEPH BARRETT, White Plains, N. Y., assignor to Barrett Blue Blaze Burner Co., Inc., a Corporation of New York. Filed Mar. 19, 1924. Serial No. 700,838. 6 Claims. (Cl. 158—91.)



1. In an oil burner the combination of an oil receiving receptacle, means for feeding oil into the receptacle to a predetermined normal level, a member supported in a depending relation in the upper portion of the receptacle with its receptacle facing surface disposed in a continuously converging relation with respect to the inner surface of the receptacle from a location above the plane of normal liquid level within the receptacle upwardly towards the outer edge of the receptacle, the said member at its outer end being annularly spaced from the receptacle to provide an opening from the receptacle, and means providing an air passageway in the receptacle, opening above the normal liquid level immediately below the member in such manner that the air entering the receptacle strikes against the member and is laterally deflected towards the space between the upwardly converging surfaces of the member and receptacle.

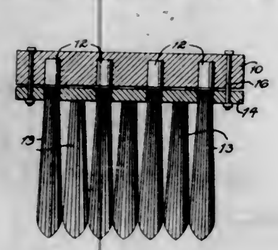
1,780,220. STEAM GENERATOR. HENRY H. BAUMGARTNER, Belleville, N. J., assignor to Drake Nonclinkering Furnace Block Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 5, 1927. Serial No. 173,177. 6 Claims. (Cl. 122—235.)



1. Steam generating apparatus comprising a bank of boiler water tubes, a baffle wall therein establishing a

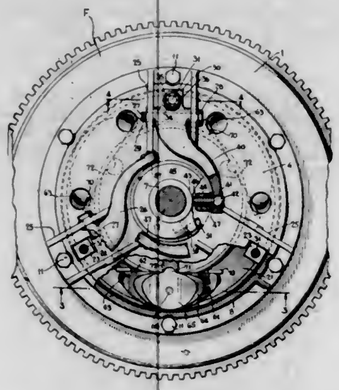
down-travel first boiler pass and an up-travel second boiler pass, with the gases traveling beneath such baffle wall from the first to the second boiler pass, enclosing walls forming a combustion space above the first boiler pass and a refuse space below the baffle wall, and a fluent fuel burner delivering into the combustion space, the upper boiler tubes having their top sides exposed to the radiant heat of the combustion.

1,780,221. BRUSH. JOHN BUCHMANN, Hamilton, Ohio. Filed May 8, 1930. Serial No. 450,790. 3 Claims. (Cl. 15—194.)



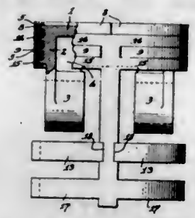
1. A brush construction comprising replaceable bristle tufts, a back member, a tuft holder on the end of each tuft, flanges on the tuft holders, a member secured to the back member and in position to hold the flanges in place relative to the back member, the second member being provided with openings to permit the passage of the bristles.

1,780,222. CLUTCH. EDWARD P. BULLARD, Jr., Stratford, and GEORGE F. KOLB, Bridgeport, Conn., assignors to The Bullard Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Jan. 13, 1928. Serial No. 246,447. 2 Claims. (Cl. 192—68.)



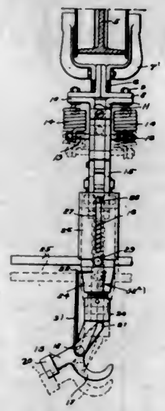
1. A clutch of the class described, comprising a shallow housing having circularly-spaced apertures, a pressure ring within the housing having lugs passing through the apertures and slidably fitting same, a driven member, plate springs interspaced with the lugs, studs extending rearward from the lugs and having lever abutment members, releasing levers fulcrumed on the housing, having their short arms engaging the abutment members, and a shifting collar connected to the inward ends of the levers, the connections of the levers to the shifting collar comprising ball-ended studs engaged with the collar and sockets in the lever ends in which the ball ends of the studs are engaged, and clearance take-up washers intermediate the lever ends and the collar.

1,780,223. PISTON AND PISTON-RING ASSEMBLY. ARTIST B. CROUCH, Detroit, Mich. Filed Dec. 13, 1926. Serial No. 154,540. 13 Claims. (Cl. 74—108.)



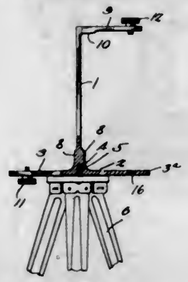
1. A piston ring structure including a plurality of top rings to engage about a piston head, a bottom ring, and a portion connecting said top rings and said bottom ring and forming an integral skeleton ring structure.

1,780,224. SETTING MEANS FOR CONVEYING MECHANISM. JAMES STARR DA COSTA, Merchantville, N. J., assignor of one-half to Jervis B. Webb, Detroit, Mich. Filed Nov. 26, 1929. Serial No. 409,929. 7 Claims. (Cl. 198—46.)



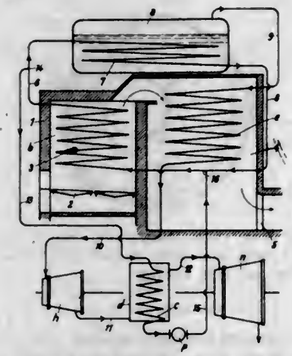
1. The combination with a carrier comprising a non-rotative element and a rotative element, the latter being adapted to be actuated step by step during the travel of the carrier, of indicating mechanism by which the degree of movement necessary to move the rotative element to releasing position may be predetermined and visually indicated.

1,780,225. CAMERA TRIPOD. EDMOND DE MOULIN, Los Angeles, Calif. Filed Nov. 9, 1928. Serial No. 318,240. 2 Claims. (Cl. 248—46.)



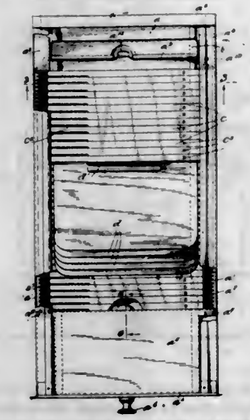
1. In a holder for motion picture cameras, a support including a standard, means for mounting the support on a tripod with the standard in a substantially upright position, said standard being provided near its upper end with a laterally extended arm, the standard being provided near its lower end with a laterally extended arm, the arms projecting in opposite directions with respect to the standard, and a camera-holding means on each arm.

1,780,226. INTERSTAGE SUPERHEATING IN STEAM POWER PLANTS. HERMAN ELSNER, deceased, Cassel, Germany, by Carl Wagner, administrator, Cassel-Wilhelmshohe, Germany. Filed Apr. 20, 1926, Serial No. 103,263, and in Germany Apr. 28, 1925. 4 Claims. (Cl. 60—73.)



1. A steam power plant comprising a steam engine having several expansion stages, an interstage superheater between two of such stages, a working steam boiler for generating the high-pressure working steam for said engine and connected to said engine, a heating steam boiler adapted to generate heating steam to be used in the working steam boiler as heating medium for the indirect generation of the working steam, a heating coil in said working steam boiler immersed in the liquid of the boiler, means for conducting the heating steam from said heating steam boiler to said heating coil in the working steam boiler, means for diverting part of said heating steam before its introduction into the coil in the working steam boiler, and means for conducting said part of steam into the interstage superheater to be used therein as heating medium.

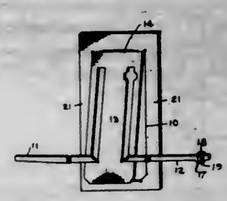
1,780,227. CARD-INDEX SYSTEM. ROLAND A. FURLONG, Rochester, N. Y., assignor to The Yawman & Erbe Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 6, 1927. Serial No. 211,024. 15 Claims. (Cl. 129—16.)



1. In an apparatus of the class described, a tray, space bars carried thereby, means to engage an end bar to hold the bars together, an arm carried by the means, and means to move the arm into engagement with the tray to lock the first means in a desired position.

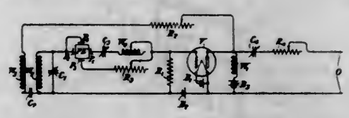
6. In an apparatus of the class described, in combination, a tray, cards to be carried thereby having securing means, space bars for the tray comprising parallel bars adapted to lie in the tray, and means on the bars to engage and hold the securing means.

1,780,228. MERCHANDISING FABRIC. ALEXANDER R. GOLDEN, New York, and JULIUS I. KAHN, Brooklyn, N. Y. Filed May 17, 1927. Serial No. 191,986. 2 Claims. (Cl. 223—18.6.)



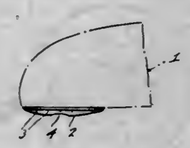
1. An insert of the class described comprising a substantially rectangular card having a substantially rectangular central portion cut out of the same and hinged at one end, and hinged cut outs in said central portion adapted to be secured transversely around said insert.

1,780,229. OSCILLATION GENERATOR. ESTILL I. GREEN, East Orange, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 10, 1927. Serial No. 218,774. 9 Claims. (Cl. 250—36.)



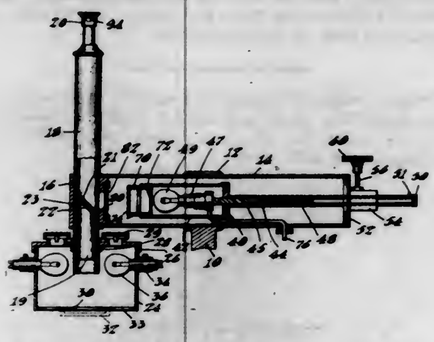
1. The combination of a piezo-electric device capable of vibrating simultaneously in a plurality of modes at different frequencies, said piezo-electric device having a pair of electrodes for its vibration in each mode, and means for uniting selected frequencies of vibration of said piezo-electric device to produce a substantially different frequency of vibration.

1,780,230. TAP FOR DANCING SLIPPERS OR SHOES. WILLIAM JOHN HANEY, North Vernon, Ind. Filed Mar. 25, 1930. Serial No. 438,791. 4 Claims. (Cl. 46—46.)



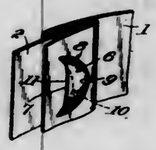
1. A hard rigid tap for dancing slippers adapted to be affixed to the underside of the hole of a slipper or shoe; said tap being concavo-convex in section to afford a space between its upper side and the underside of the sole and being provided adjacent to its edges with apertures for attaching purposes and being further provided within and spaced from said apertures with a comparatively large aperture extending transversely through it and communicating with the said space.

1,780,231. OPTICAL MEASURING INSTRUMENT. ARTHUR C. HARDY, Wellesley, Mass., assignor to Godfrey L. Cabot, Inc., Boston, Mass., a Corporation of Massachusetts. Filed Jan. 19, 1928. Serial No. 247,881. 6 Claims. (Cl. 88—23.)



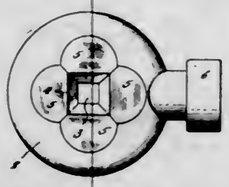
1. An optical instrument for measuring the reflecting power of carbon black, comprising means for intensely illuminating a sample thereof to raise its brightness to a level approximating good photometric practice, a surface of standard brightness which is the optical equivalent of an illuminated carbon black specimen, and means including an eye-piece for viewing the brightness of said surface and sample in the same field.

1,780,232. JOINT. EBER J. HAYMAN, Parkersburg, W. Va. Filed Feb. 28, 1928. Serial No. 257,739. 11 Claims. (Cl. 220—75.)



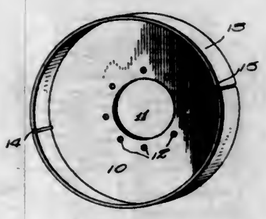
1. A joint for metallic members comprising overlapping edge portions, an uncovered aperture in one edge portion, an offset lock in the other edge portion, a raw edge adjacent the aperture engaging a raw edge of the offset lock, said offset lock being so shaped that the two edge portions are capable of relative longitudinal movement to disengage the same.

1,780,233. SPRINKLER. HOWARD JENKINS, Denver, Colo. Filed July 12, 1928. Serial No. 292,067. 1 Claim. (Cl. 299—18.)



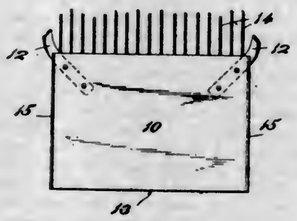
A lawn sprinkler comprising a shallow body of circular outline internally having a flat uninterrupted base and an arched top and having a nozzle on its side, the top marginally approaching the base at an acute angle and being provided centrally with a square outlet opening and the body being provided with an inlet opening of uniform cross sectional area extending across the axis of the nozzle in the horizontal plane thereof with its ends at opposite sides of said axis and one wall forming a deflecting surface, the wall of the body forming the end of the nozzle at the side away from the deflecting surface being beveled towards said surface, and feet on the bottom of the shallow body whereby the body may be supported with the interior thereof in the horizontal plane of the axis of the nozzle.

1,780,234. BRAKE DRUM. JOSEPH W. JOHNSTON, Steubenville, Ohio. Filed Oct. 2, 1926. Serial No. 139,144. 8 Claims. (Cl. 188—218.)



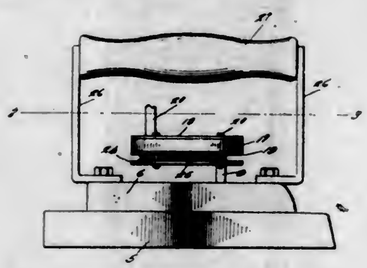
6. A brake drum comprising a disk and a flange carried thereby, said disk and said flange each being provided with cut-away portions therein.

1,780,235. POTATO-DIGGER BLADE. ERICK A. JOHNSON, Pine Bluffs, Wyo. Filed Feb. 9, 1928. Serial No. 253,128. 1 Claim. (Cl. 55—54.)



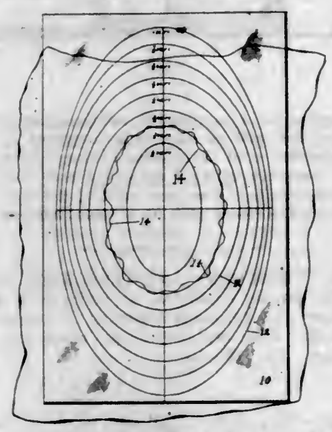
In a potato digger, a blade comprising a rectilinear member the width of which is substantially twice as great as its length, and having integral flanges at its lateral edges tapering from the rear of the blade to the forward edge thereof, the edges of said flanges being unsharpened, and screen bars rigidly connected to the rear edge of said blade.

1,780,236. SELF-STEAMING IRON. WILLIAM B. KLAREN, Lexington, Ky. Filed Mar. 26, 1929. Serial No. 350,078. 1 Claim. (Cl. 68—26.)



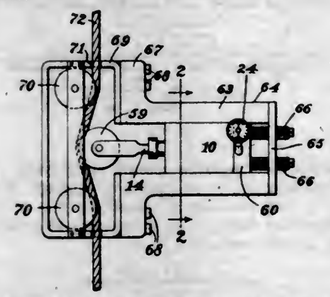
A sad iron comprising a work engageable block, a plate mounted upon the block, said plate being provided with a pocket in the bottom side thereof, a heating element disposed within the pocket and against the top side of the said block, a water boiler mounted upon the iron, said iron being provided with openings therethrough, and means for delivering moisture from the said boiler through the said openings to the work, said boiler comprising an annular side wall, top and bottom walls for the said side walls, a plate, a heating element disposed between the said plate and the said bottom wall, and securing means securing the said top and bottom walls and the said plate to the said side wall.

1,780,237. AREA-ESTIMATING DEVICE FOR SHEET MATERIAL. BERNARD S. LESLIE, Beverly, Mass., assignor to Krippendorf Kalculator Company, Portland, Me., a Corporation of Maine. Filed Mar. 12, 1925. Serial No. 15,103. 4 Claims. (Cl. 33—121.)



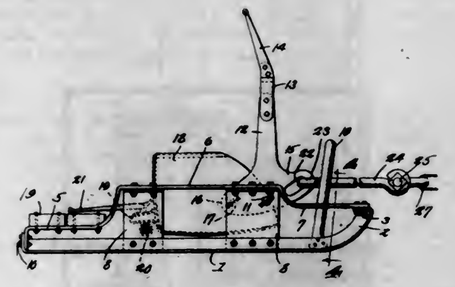
1. A device for estimating the faulty area of a sheet of material, consisting of a sheet of transparent material having a series of concentric figures of uniformly varying areas outlined upon it.

1,780,238. WEIGHT INDICATOR. ROBERT A. LINCOLN, Tonkawa, Okla., assignor of one-half to American Iron & Machine Works, Inc., Tonkawa, Okla., a Corporation of Oklahoma. Original application filed July 31, 1924, Serial No. 729,340. Divided and this application filed Mar. 23, 1928. Serial No. 264,246. 5 Claims. (Cl. 265—47.)



1. In a weight indicator for well drilling apparatus, the combination of an indicator, a cylinder and piston, means between the piston and a line of hoisting mechanism, which is adapted to engage an intermediate stretch of said line and normally deflect it from its straight course, said line under its tendency to straighten out due to pull thereon moving the piston to effect an indication, and adjustable means in engagement with said cylinder to allow said line to straighten out and lower the apparatus when the indicator shows excessive pressure.

1,780,239. DIRT MOVER. HENRY MASCHEK, Wichita Falls, Tex. Filed Aug. 17, 1929. Serial No. 386,648. 3 Claims. (Cl. 37—122.)



1. The combination with a supporting structure and a scoop therein, of draft means, means actuated by the draft means when subjected to a pulling action, for holding the front of the scoop out of contact with the surface on which the supporting structure is mounted, cooperating means on the scop and supporting structure for holding the rear portion of the scoop above and out of contact with the surface on which the structure is mounted, and means for swinging the back of the scoop upwardly and forwardly relative to the draft means to dump the contents of the scoop.

1,780,240. REAMER. WILLIARD M. MCBRIDE, Pittsburgh, Pa. Filed July 2, 1927. Serial No. 203,137. 1 Claim. (Cl. 77—75.)

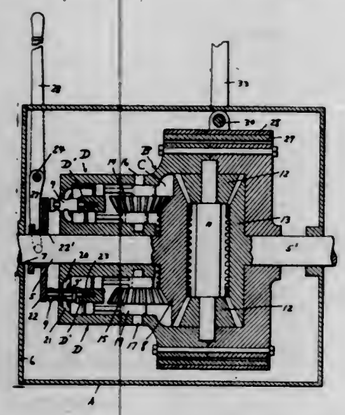


A reamer comprising an elongated body having an axial opening and a plurality of longitudinal slots and further provided with alined transverse threaded openings inwardly from the slots leading into opposite sides of the axial opening, blades in the slots, a bar having end portions of cylindrical formation and its intermediate portion polygonal, one end portion fitting within the axial opening of the body and having portions cut from its opposite sides to define transversely alined recesses and a central radial web, said recesses being alined with the transverse openings in the body and the polygonal portion of the bar bearing against the inner edges of the blades, and screws threaded into the transverse openings in the body and housed therein with their inner ends engaged in the recesses in the bar and bearing against opposite sides of the web to retain the bar in place and effect its rotation for adjusting the blades.

1,780,241. CLUTCH MECHANISM. FORD S. MILLER, New Salem, Kans. Filed July 10, 1929. Serial No. 377,135. 6 Claims. (Cl. 74—34.)

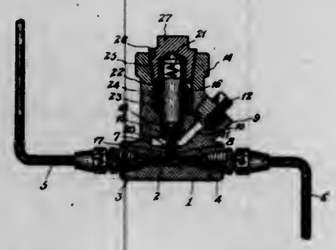
1. In a clutch mechaniam of the class described, a drive shaft, a driven shaft, a housing rotatably mounted on said shafts, each of said shafts having a gear mounted on the inner end thereof, said gears being disposed in opposed relation, a pair of oppositely disposed gears rotata-

bly mounted in said housing intermediate the first mentioned gears and adapted for mesh therewith, said housing having a plurality of cylinders formed therein, pis-



tons mounted for reciprocation within said cylinders, and means operatively connecting said pistons with the gear on said drive shaft.

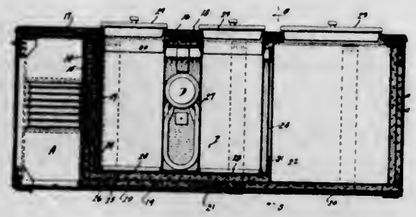
1,780,242. VALVE. JOHN R. REPLOGLE, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Original application filed Feb. 28, 1921, Serial No. 448,331. Divided and this application filed Jan. 31, 1927. Serial No. 164,739. 10 Claims. (Cl. 251—155.)



1. A valve fitting for refrigerating systems comprising a single piece casting provided with an outlet adapted to be secured to the inlet port of a refrigerating system, an intake tubular portion adapted to receive the return pipe of said system, said casting being provided with a circulation passage communicating with said outlet and intake connections, a tubular extension formed integral with said casting and communicating with said circulation passage, said extension being adapted ot be connected to an exhausting and charging apparatus, and a manipulative valve for controlling the communication between said exhausting and charging extension and said circulation passage, said valve being arranged exteriorly of said circulation passage.

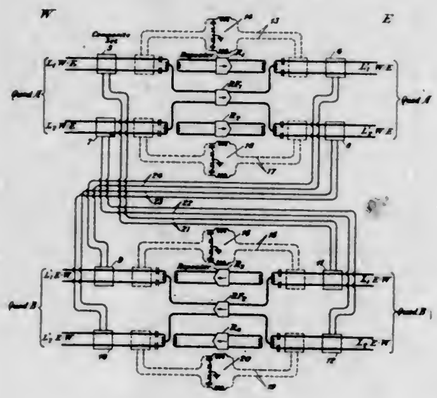
1,780,243. MECHANICALLY-REFRIGERATED CABINET. JOHN R. REPLOGLE, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Feb. 5, 1927. Serial No. 166,050. 5 Claims. (Cl. 62—93.)

5. In a food storage cabinet having an interior heat insulated chamber and provided with openings through which access may be had to said chamber, the combination of a closed brine tank supported within said insulated chamber, said brine tank having open end food storage compartments extending therein, the open end of said compartments registering with openings in the cabinet, movable closure members for the openings in the cabinet,



an evaporator of a mechanical refrigerating system in said brine tank, and an open tank supported in said insulated chamber, said tanks being arranged in spaced relation to permit a confined air circulation therebetween for transmitting heat from the walls of the open tank to the walls of the closed tank at a predetermined rate.

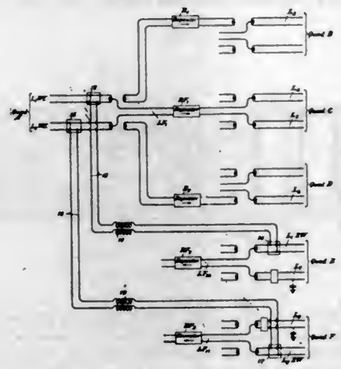
1,780,244. TELEPHONE AND TELEGRAPH CIRCUIT. PAUL E. RITTER, Roselle, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 27, 1929. Serial No. 395,628. 5 Claims. (Cl. 179—4.)



1. A four-wire telephone circuit comprising two one-way line sections for transmission in opposite directions, repeaters in said one-way line sections, and a telegraph circuit connected between said one-way line sections at the inputs of said repeaters.

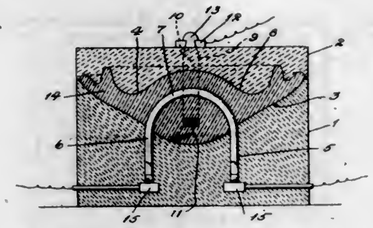
1,780,245. TELEPHONE AND TELEGRAPH SYSTEM. LELAND C. ROBERTS, Towaco, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 27, 1929. Serial No. 395,629. 4 Claims. (Cl. 179—4.)

1. A transmission system comprising a plurality of four-wire telephone circuits having their one-way circuits arranged in quads and arranged for the production of phantom circuits, the individual circuits being so transposed at a point that the phantom circuits will be separated from their side circuits, telegraph circuits connected between the one-way circuits of certain of said four-wire



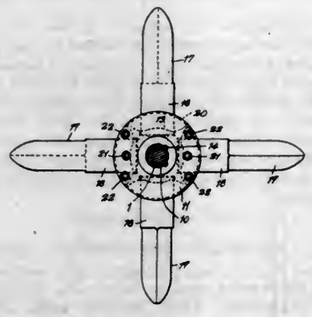
circuits, and means in said telegraph circuits for preventing the transmission thereover of currents from said phantom circuits.

1,780,246. GLASS INSULATOR AND METHOD OF MAKING SAME. DAVIDGE H. ROWLAND, Baltimore, Md., assignor to Locke Insulator Corporation, Baltimore, Md., a Corporation of Maryland. Filed Dec. 9, 1924. Serial No. 754,746. 10 Claims. (Cl. 49—81.)



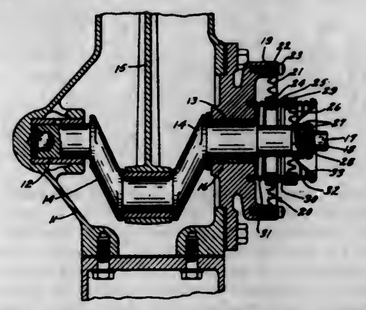
9. The method of making an insulator of a type having a permanently attached suspension element, comprising molding a glass body about said suspension element and passing an electric current through the element to effect heating thereof during molding, and continuing said heating until after the glass has set.

1,780,247. ROTARY CUTTER FOR SUGAR CANE AND THE LIKE. ALFRED M. SIMPSON, Manila, P. I. Filed Mar. 27, 1928. Serial No. 265,027. 1 Claim. (Cl. 146—121.)



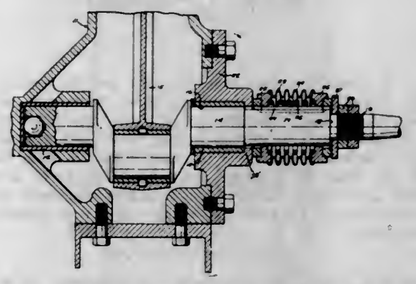
A rotary cutter comprising a hub having a peripheral flange provided with a plurality of rectangularly-formed knife-receiving grooves extending radially thereof, knives comprising blade sections, and rectangularly-shaped butt sections adapted to fit into said grooves, the butt sections being of greater length than the depth of said grooves and projecting above said flange, a collar fitting the hub and contacting the projecting faces of said knife butts, and individual bolts traversing the flange, knife butts and collar, for locking the butts in the grooves, and multiple bolts for locking the collar and hub together.

1,780,248. JOURNAL-BEARING SEAL. CHARLES C. SPREEN, Detroit, Mich. Filed Dec. 30, 1926. Serial No. 157,939. 1 Claim. (Cl. 286—11.)



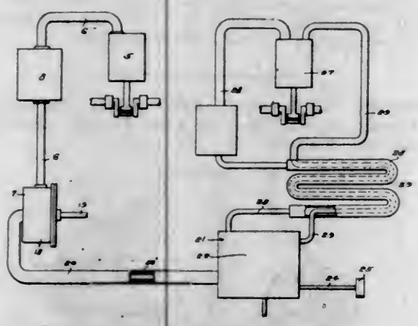
The combination with a casing having an annular portion projecting from one wall thereof forming a seat, and a rotatable shaft extending through said casing wall and interiorly of the annular projecting portion; of a seal structure comprising an annular sealing ring disposed radially inwardly of the aforesaid seat, a flexible diaphragm secured rigidly to the seat and sealing ring, another sealing ring disposed adjacent the first and in rotatable engagement therewith, clamping means associated with the shaft and disposed radially inwardly of said last mentioned sealing ring, a second flexible diaphragm secured rigidly to the last mentioned sealing ring and clamping means, and a pair of springs disposed concentrically of the shaft for resiliently retaining the aforesaid sealing rings in rotatable engagement.

1,780,249. JOURNAL-BEARING SEAL. CHARLES C. SPREEN, Detroit, Mich. Filed Dec. 30, 1926. Serial No. 157,941. 3 Claims. (Cl. 286—11.)



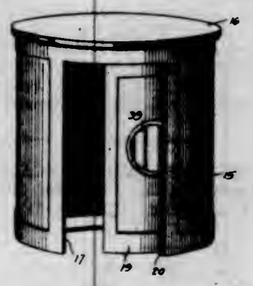
1. In combination with a casing provided with a shaft aperture, a plate for closing said casing aperture provided with a bearing aperture and an exterior seat and a shaft extending through said apertures; of a seal structure including a tubular bellows, annular members secured to each end of the bellows, said members being keyed to and movable longitudinally of said shaft, friction rings attached to said annular members, a seating plate clamped to a shoulder of said shaft and a spring within said bellows for rotatably and resiliently sealing said annular members to said plate seats.

1,780,250. METHOD OF AND APPARATUS FOR LIQUEFYING GASES. LEON B. STRONG, Washington, D. C., assignor of twenty per cent to Frank G. Campbell. Filed Mar. 27, 1930. Serial No. 439,435. 14 Claims. (Cl. 62—174.)



1. The herein described process of absorbing and removing the latent heat of condensation of gases having a low condensing temperature, which consists in compressing a gas having a critical temperature lower than the condensing temperature of the gas sought to be liquefied, expanding the said gas while in heat exchanging relation with the saturated vapor, and returning the expanded gas in counter-current with the compressed gas to its source of compression.

1,780,251. TELEPHONE BOOTH. SOLOMON TEPLOW, Los Angeles, Calif. Filed Aug. 23, 1926. Serial No. 131,078. 6 Claims. (Cl. 20—3.5.)

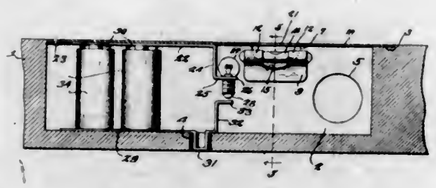


1. A telephone booth comprising a section open at one side, closed at its top and formed at its bottom with a shelf, and a door structure forming the only other section of the booth and supported entirely from said first section and arranged when closed to coact with the shelf to permit the body of a person when standing to be accomodated in the space between the door and said shelf so that the portion of the body above the waist will extend into the booth.

1,780,252. WATER-SOLUBLE PRODUCT DERIVED FROM THE FATTY ACIDS OCCURRING IN WOOL FAT AND PROCESS OF PREPARING THE SAME. ALFRED THAUSS, Cologne-Deutz, and GUSTAV MAUTHE, Cologne-Holweide, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Dec. 16, 1927, Serial No. 240,625, and in Germany Dec. 17, 1926. 6 Claims. (Cl. 87—12.)

1. The process for the manufacture of a water soluble product from the fatty acids occurring in wool fat which process comprises treating these fatty acids with sulfuric acid monohydrate in the presence of a phenol.

1,780,253. LEVEL DEVICE. CHARLES ANDREW VOLZ, Birmingham, Mich. Filed May 1, 1929. Serial No. 359,660. 2 Claims. (Cl. 240—6.4.)



1. In a device of the class described, a stock having a compartment, the stock being provided in one edge with a hole communicating with the compartment, switch members in the form of strips disposed in approximately parallel relation in the compartment, the strips having arms that extend inwardly toward each other, an electric lamp carried by the arm of one strip, the other strip being resilient and having a button to which the hole gives access, whereby said other strip may be flexed inwardly to bring the arm thereof into circuit-closing relation to the lamp, and to light the lamp, a battery electrically engaged between the strips, and a leveling device carried by the stock and located close enough to the lamp to be lighted thereby.

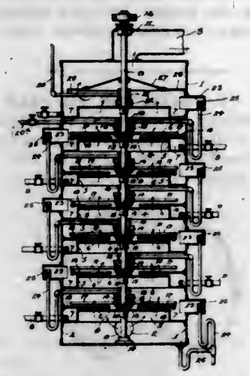
1,780,254. TABLE. ALLEN P. WAGNER, Jonestown, Pa. Filed May 5, 1927. Serial No. 189,072. 11 Claims. (Cl. 45—51.)



4. In combination, a support, guides on the support, a table having a rear edge guided by the guides, an upright member pivoted to the support, a second member pivoted to the first member, at a point adjacent the middle of the first member and having its opposite end pivoted to the table, the proportions of the table and the two members and guides being such that the upper ends of the first member will lock the inner end of the table in the upper ends of the guides when the table is in a horizontal position.

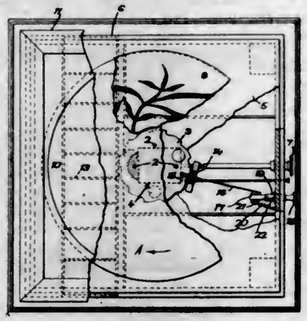
1,780,255. LIQUID AND GAS CONTACT APPARATUS. FREDERICK H. WAGNER, Baltimore, Md., assignor to The Bartlett Hayward Company, Baltimore, Md., a Corporation of Maryland. Filed Mar. 8, 1928. Serial No. 260,038. 12 Claims. (Cl. 261—84.)

1. In a liquid and gas contact apparatus the combination of a casing having a gas inlet and a gas outlet, a diaphragm extending transversely thereof from wall to wall, said diaphragm being perforate; a member located



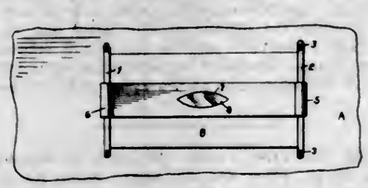
adjacent an opening formed in the diaphragm; means for feeding liquid onto said member; and means for imparting motion to said member.

1,780,256. SOCIAL GAME. WALTHER WALSS, Meggen, near Lucerne, Switzerland. Filed Dec. 7, 1929, Serial No. 412,477, and in Germany Jan. 21, 1929. 5 Claims. (Cl. 273—136.)



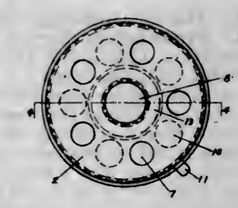
1. In a game of the type described, in combination, a game board, a disk for supporting said game board, a transparent plate situated above said game board, playing pieces adapted to be placed on said transparent plate, and means to cause a relative rotational displacement between said game board and said transparent plate for changing the positions of the playing pieces relatively to the game board without altering the position of these pieces on the transparent plate.

1,780,257. AUTOMOBILE CURTAIN. CORA P. WEAVER, Alhambra, Calif. Filed Sept. 14, 1926. Serial No. 135,305. 1 Claim. (Cl. 296—138.)



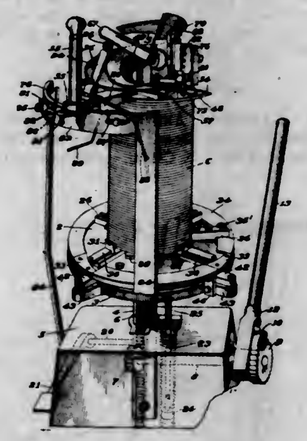
In combination with a frame having a window opening, a pair of vertically disposed fabric strips having only their opposing ends secured to the frame and their main body portions overlying said frame along adjacent window opening edges, a fabric curtain having transverse loops formed at its opposing ends, mounted slidably and frictionally in embracing relation upon said strips, said curtain bridging the full length of said window opening and being of a width narrower than that of the window opening to allow it to be raised or lowered vertically of the window, and a colored transparent panel carried by said curtain.

1,780,258. COMBINED CIGARETTE EXTINGUISHER AND RESIDUE RECEPTACLE. FRED WEINBERG, White Plains, N. Y. Filed Dec. 30, 1927. Serial No. 243,528. 9 Claims. (Cl. 131—51.)



1. In a device of the class described, a receptacle, a cover therefor having cigarette openings, a disc carried by the cover on its inner face and having a plurality of holes therein corresponding to the number of cigarette openings in the cover, and at least as large as said openings, said disc being normally positioned so as to close the openings through said cover and means for operating said disc so the holes therein can be brought into register with the cover openings whereby stubs may be dropped into the receptacle after being extinguished.

1,780,259. CLUTCH-RING-SHEARING MACHINE. THOMAS HANDEL BATESON, Walpole, Mass., assignor to Multibestos Company, Walpole, Mass., a Corporation of Massachusetts. Filed May 12, 1928. Serial No. 277,375. 18 Claims. (Cl. 242—55.5.)



1. In a machine of the character described, the combination of a support for a coil of flat facing material wound edgewise, cutting mechanism for severing said material substantially radially thereof, means operable to relatively rotate said coil and said mechanism, and means operative during said relative rotation to guide a strip of said facing material unwound from said coil into cooperative relationship to said cutting mechanism.

1,780,260. METHOD OF PRODUCING PICTURES IN COLORS. GEORGE F. CAPWELL, Wethersfield, Conn. Filed Dec. 2, 1929. Serial No. 410,961. 8 Claims. (Cl. 101—115.)

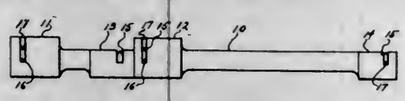


1. The method of producing pictures in colors, which consists in interposing a protective screen over the surface to receive the picture and beneath a screen stencil, and forcing a color through the stencil and protective screen.

1,780,261. LEAD ALLOY AMENABLE TO HARDENING BY HEAT TREATMENT. MICHAEL G. CORSON, Jackson Heights, N. Y. Filed June 8, 1928. Serial No. 284,004. 4 Claims. (Cl. 148—21.4.)

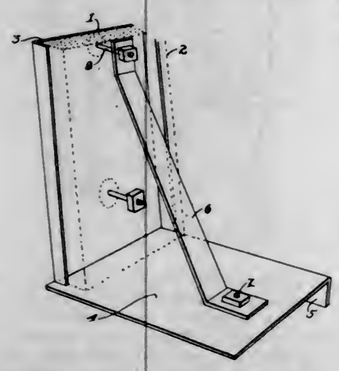
1. A method of hardening an alloy consisting principally of lead, and containing 0.5 to 15% each of antimony and cadmium, which comprises heating said alloy to a temperature upwards of 200° C. and short of the melting point for a sufficient period of time to bring the antimony and cadmium into solid solution in the lead matrix and then cooling to produce supersaturation followed by aging.

1,780,262. LEVER FOR SCALES AND METHOD FOR MAKING THE SAME. LOUIS JAENICHEN, Springfield Township, Oakland County, Mich., assignor to The Standard Computing Scale Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 18, 1926. Serial No. 149,092. 4 Claims. (Cl. 308—2.)



1. A lever of non-uniform thickness adapted to be provided with pivots in the form of knife edged bars, said lever being provided with a plurality of cross grooves cut to the same depth level, the grooves in the thinner portions of the lever being of a depth equal to the vertical dimension of a knife edged bar, the grooves in the thicker portions of the lever being twice this depth.

1,780,263. LADDER. ANDREW P. KETTMANN and IRVIN W. ANDERSON, San Jose, Calif. Filed Nov. 8, 1928. Serial No. 317,917. 1 Claim. (Cl. 228—61.)



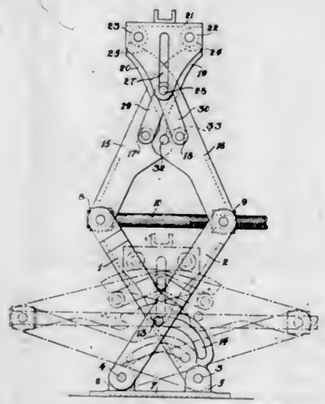
The combination with a ladder of a foot comprising a body portion adapted to overlie the inner surface of the lower portion of the ladder side and means for securing the same rigidly to the ladder side, and a ground engaging plate extending laterally from the said body portion and passing beneath the ladder side, and bracing means inserted between the said plate and the outer side of the ladder.

1,780,264. PACKING FOR FRAGILE ARTICLES. MORRIS KOPPELMAN, Brooklyn, N. Y., assignor, by mesne assignments, to Holed-Tite Packing Corporation, a Corporation of New York. Filed July 16, 1926. Serial No. 122,777. 4 Claims. (Cl. 217—26.5.)



4. A packing for fragile articles comprising a series of cup-like articles receiving members united to form a sheet and having an upright hinge connection for folding them on one another with their concave sides opposed, upright marginal edges constructed and arranged to overlap when the sheet is folded and protuberances at the apexes of said receiving members having an opening therein.

1,780,265. LIFTING JACK. WILLIAM H. LOLLEY, New York, N. Y. Filed Nov. 12, 1926. Serial No. 147,907. 17 Claims. (Cl. 254—126.)

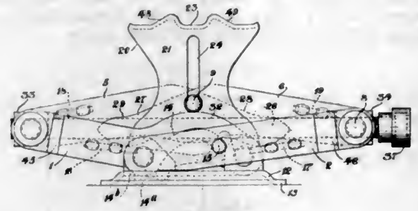


1. A lifting jack comprising a base member, a pair of levers pivotally mounted at their lower ends to said base member, a pair of upper crossed levers pivotally connected at their lower ends to the lower pair of levers respectively, means for turning said lower pair of levers about their pivots, a rest, means on said upper crossed levers for supporting said rest, and means on each upper crossed lever for engaging the other upper crossed lever for effecting the raising of the upper ends of said upper levers whereby the turning of said lower pair of levers about their pivots will give to the rest a substantially uniform vertical movement for a uniform horizontal component of the movement of the upper ends of the lower levers.

1,780,266. LIFTING JACK. WILLIAM H. LOLLEY, New York, N. Y. Filed Nov. 12, 1926. Serial No. 147,908. 15 Claims. (Cl. 254—126.)

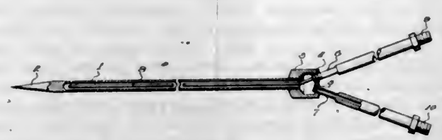
1. A lifting jack comprising a base member, a pair of levers pivotally mounted at their lower ends to said base

member, a pair of upper levers pivotally connected at their lower ends to the lower pair of levers respectively, means for turning said lower pair of levers about their pivots, a rest movable relatively to said upper and lower levers, said rest being adapted to directly engage said



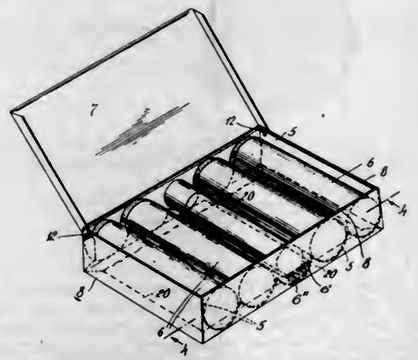
lower levers intermediate their ends during the earlier period of the raising operation of the jack and to be raised thereby during such period and means on said upper levers adapted to engage said rest and to effect the raising thereof after said earlier period of the raising operation of the jack.

1,780,267. APPARATUS AND METHOD FOR CHILLING MEATS. JOHN P. MALONE, Chicago, Ill., assignor of one-half to Adam P. Young, Chicago, Ill. Filed Aug. 20, 1928. Serial No. 300,746. 2 Claims. (Cl. 99—14.)



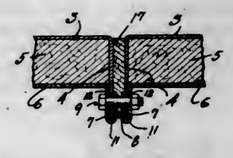
1. A device for chilling meats comprising a conduit, and means for circulating a refrigerant from the forward end of said conduit to the rearward end thereof comprising an injection tube opening into said conduit at its forward end and a discharge tube communicative with the rear end thereof, in manner adapted to cause the lowest temperature to be near the forward end.

1,780,268. CLEANER SET PACKAGE. JAMES LYLE MILLER, Toledo, Ohio, assignor to Rex Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed May 22, 1928. Serial No. 279,673. 4 Claims. (Cl. 206—65.)



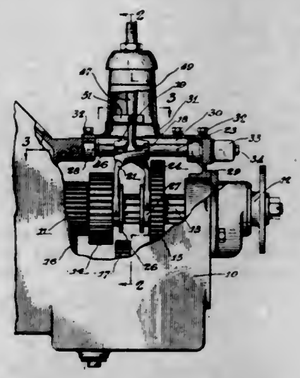
1. A package of liquid cleaning-materials in receptacles including a container comprising a frame having an open bottom, a flexible member suspended from the top edges of two sides thereof for carrying the receptacles and having formations thereon for protecting the receptacles from contacting with each other and with outside objects, said frame having its lower edges all around formed into substantially horizontal flanges and extended under said flexible member a sufficient distance to prevent said member from sagging down and out of the package under the weight of the receptacles.

1,780,269. OVEN CONSTRUCTION. WILLIAM G. MILLER, Detroit, Mich., assignor to The R. C. Mahon Company, Detroit, Mich., a Corporation of Michigan. Filed May 16, 1929. Serial No. 363,700. 6 Claims. (Cl. 72—16.)



1. In an oven construction, an oven unit comprising a sheet metal base member having upturned flanges at the edges, a second sheet metal member having return bent flanges at the edges engaging over the flanges of the base member, the interengaging flanges being apertured, and the metal of one flange being extruded at the apertures to lock the flanges together, the space between the sheet metal members being filled with insulating material.

1,780,270. MOTOR VEHICLE. ALFRED MOORHOUSE, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 28, 1925. Serial No. 65,269. 12 Claims. (Cl. 74—39.)

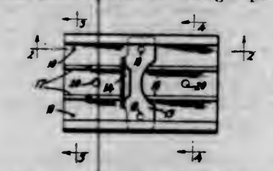


12. In a transmission gearing, the combination of two shifter elements, a shift lever adapted to be moved laterally to engage either of said elements and to be moved longitudinally to move the engaged element, and means for moving the shift lever laterally to interlock the shifter elements when one of them is in neutral and the other is in shifted position.

1,780,271. MOUNTING FOR SHADE FIXTURES. ROGER E. MOORE, New York, N. Y. Filed Oct. 17, 1928. Serial No. 312,969. 4 Claims. (Cl. 156—24.)

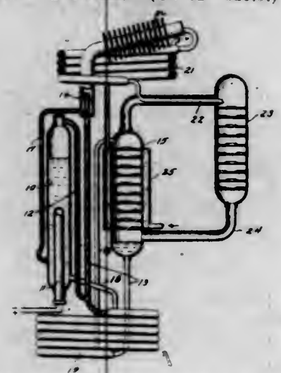
1. A mounting for shade fixtures, comprising a plate provided with inwardly turned flanges at opposite margins thereof to form opposed grooves, the plate being

further formed with a rib intermediate between and parallel to said grooves, said rib being tapered near one



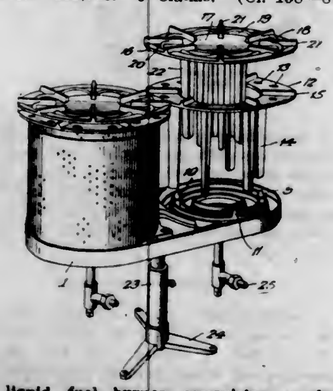
end of the plate to merge into the plane of the plate, and the flanges being oppositely tapered at said end to provide enlarged mouths for said grooves.

1,780,272. REFRIGERATION. CARL GEORG MUNTERS, Stockholm, Sweden, assignor to Electrolux Servel Corporation, New York, N. Y., a Corporation of Delaware. Filed Apr. 2, 1928, Serial No. 266,861, and in Germany Apr. 7, 1927. 2 Claims. (Cl. 62—119.5.)



1. Refrigerating apparatus comprising a generator, an absorber situated with respect to the generator so that the normal liquid level in the generator is higher than the liquid level in the absorber, an elevated receiver situated above the generator and above the absorber, a conduit connecting the bottom of the absorber with the elevated receiver, a conduit connecting the vapor space of the generator with a point in said conduit below the normal level of liquid in the absorber and a conduit connecting the receiver with the generator.

1,780,273. LIQUID-FUEL BURNER. JOHN W. NEWBERY, Rockville Center, N. Y. Filed Dec. 13, 1929. Serial No. 413,748. 5 Claims. (Cl. 158—87.)



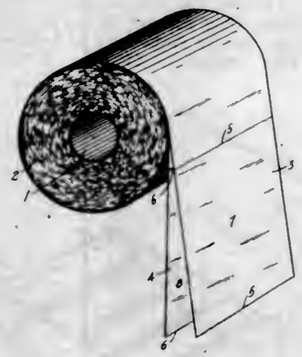
1. A liquid fuel burner comprising a plurality of foraminous concentric tubular elements vertically disposed and spaced apart; a base provided with fuel troughs therein, said troughs being located beneath the spaces between said tubular elements, and constituting therewith a plurality of combustion chambers; a baffle plate extending above and closing the central tubular member and above the combustion chambers; a second baffle plate extending above and closing one of said combustion chambers; and a series of vertically disposed baffles extending radially intermediate said baffle plates.

1,780,274. VENTILATING WINDOW LOCK. ALEXANDER PRIMAS, Buffalo, N. Y., assignor of one-fourth to John G. Miller, Buffalo, N. Y. Filed Jan. 19, 1929. Serial No. 333,534. 9 Claims. (Cl. 292—342.)



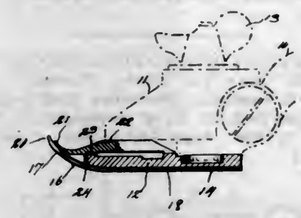
9. A ventilating window-lock, comprising a supporting member stamped of a single piece of sheet metal to form a flat base and spaced upstanding side members, said side members having the metal at their front marginal portions bent outwardly to form guide flanges to provide wide outer bearing faces and said flanges having stop ears at their upper ends, a bolt member comprising a body portion stamped of a single piece of sheet metal to form a flat transverse portion spanning the space between said side members and having opposite ends thereof bearing against the wide bearing faces of said side members and bent around said guide flanges, said flat transverse portion having clench flanges at its upper and lower edges, a friction block transversely co-extensive with said flat transverse portion against the upper and lower sides of which said clench flanges are forced, said friction block being tapered downwardly, and a release lever pivotally mounted between said side members and adapted to lift or release said bolt member when in binding contact with a window-sash.

1,780,275. PACKAGE OF TOILET PAPER. JOHN E. H. RANDERSON, Albany, N. Y. Filed Oct. 19, 1928. Serial No. 313,539. 1 Claim. (Cl. 206—58.)



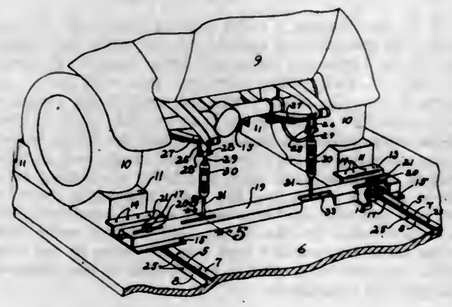
A toilet paper package comprising a plurality of lengths of paper wound together to form a roll, each length being provided with spaced, transverse lines of weakness, and the lines of weakness in the outer layer of paper coinciding substantially with the lines of weakness in the under layer of paper whereby a plurality of substantially coextensive sheets may be torn from the roll in one operation.

1,780,276. CURVED-BLADE BARBER CLIPPERS. ALBERT E. SCHREWER, Erie, Pa. Filed Apr. 15, 1930. Serial No. 444,499. 3 Claims. (Cl. 30—1.)



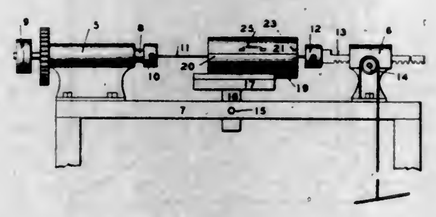
1. In combination with a clipper, an upper and a lower blade having upwardly curved cutting teeth, said lower blade having forwardly extending upwardly curved comb portions integrally formed with the cutting teeth of said lower blade whereby to lead the hair toward the cutting teeth.

1,780,277. SHIPPING DEVICE. FAY L. SEELEY and CLIFFORD L. SNYDER, Detroit, Mich., assignors to The Evans Auto Loading Co. Inc., Detroit, Mich., a Corporation of Delaware. Filed Jan. 5, 1929. Serial No. 330,544. 17 Claims. (Cl. 105—368.)



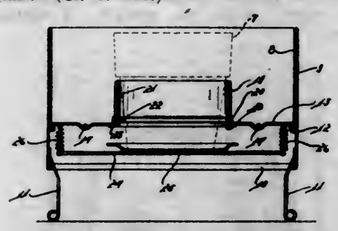
1. In combination, a vehicle chock positioned in alignment with a wheel of the vehicle and a vehicle hold-down positioned out of alignment with such wheel of the vehicle and common means for securing the two to a support.

1,780,278. BRUSH-MAKING MACHINE. CHAUNCEY F. SHULTZ, St. Louis, Mo. Filed Jan. 31, 1930. Serial No. 424,753. 5 Claims. (Cl. 300—2.)



1. In a device of the class described, the combination with core twisting means, of a hollow cylindrical guide surrounding the core and holding the filiers in symmetrical relation to the core during the twisting operation.

1,780,279. PLANT-POT SUPPORT. WILLIAM SMITH, Detroit, Mich. Filed Dec. 9, 1929. Serial No. 412,724. 4 Claims. (Cl. 47—38.)



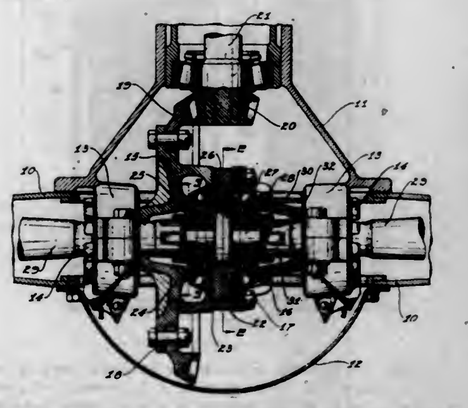
1. A plant pot support of the class described, comprising: a receptacle having an opening formed in its base; an engaging member projecting upwardly from said base around said opening and serving as a support for a pot positioned therein; a drip pan positioned beneath said opening; and yieldable means for maintaining said drip pan in engagement with the bottom of said pot.

1,780,280. HEAT-TRANSMITTING PLATEN. JOHN A. STEVENS, Lowell, Mass., assignor to The Upson Company, Lockport, N. Y., a Corporation of New York. Filed May 10, 1928. Serial No. 276,798. 4 Claims. (Cl. 257—256.)



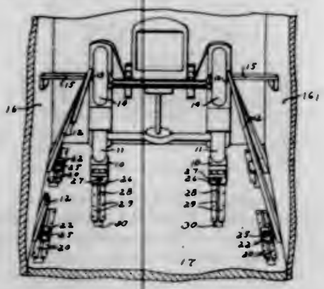
1. In a heat transmitting platen element, the combination with a face plate and a back plate, both grooved at their edges, of side plates set into the grooves of said plates at their opposite edges and welded to the material thereof adjacent to said grooves, and a plurality of threaded connecting members each threaded into said face plate at one end and threaded into said back plate at the other end, both ends of said threaded members being riveted to the respective plates.

1,780,281. MOTOR VEHICLE. MILTON TIBBETTS, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 25, 1928. Serial No. 314,902. 16 Claims. (Cl. 74—99.)



1. A differential assembly comprising a spider, a gear centered on the spider, an axle fitted to the gear by splines and means for centering the axle on the spider in spaced relation to the gear.

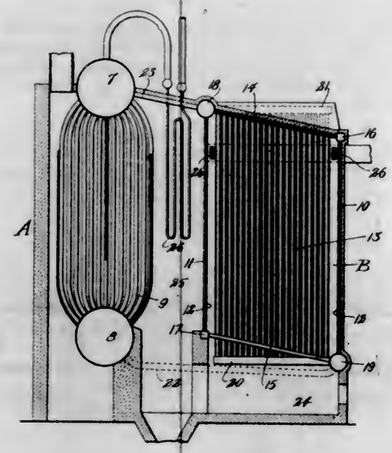
1,780,282. SHIPPING OF AUTOMOBILES. MAX D. TUCKER, Detroit, Mich., assignor to The Evans Auto Loading Co. Inc., a Corporation of Delaware. Filed Jan. 5, 1929. Serial No. 330,439. 4 Claims. (Cl. 105—368.)



1. In a freight car, in combination with the floor thereof, channels in said floor adjacent the sides thereof and extending lengthwise of said car, bolts having heads confined in said channels slidable in said channels, automobile shipping deck members provided with brackets at their lower ends, said brackets adapted to receive said bolts, and nuts cooperating with said bolts for locking said brackets against movement relative to said floor.

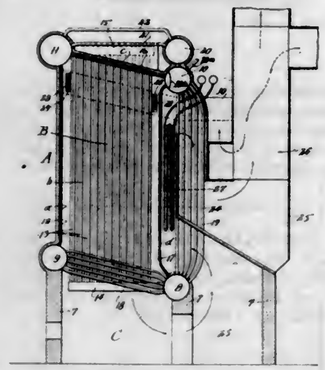
3. In a freight car, in combination with the floor thereof, channels in said floor in spaced relation to the side walls thereof, fastening means slidably retained in said channels, automobile shipping deck members provided with brackets at their lower ends, connected to said fastening means, said brackets being offset to position the lower ends of said deck members against the respective adjacent side walls of the freight car.

1,780,283. APPARATUS FOR GENERATING STEAM BY THE BURNING OF FUEL IN SUSPENSION. JOHN VAN BRUNT, Flushing, N. Y., assignor to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 27, 1926. Serial No. 97,878. 11 Claims. (Cl. 122—235.)



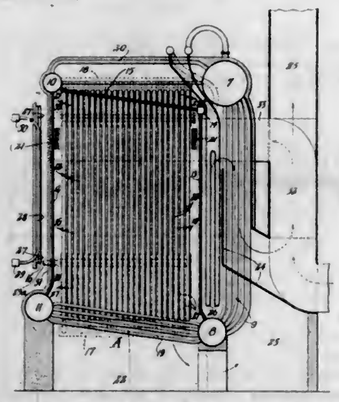
1. The combination with a boiler having a bank of convection tubes and its setting, of a combustion chamber having its walls largely defined by steam generating tubes subject to radiant heat, the tubes of at least one of said walls being upright and provided with longitudinally extending fins, a gas space between the combustion chamber and the boiler, said gas space being defined in part by convection tubes of the boiler and in part by finned upright tubes of the combustion chamber, a gas inlet for said gas space establishing communication between the combustion chamber and the gas space and a gas outlet for said gas space establishing communication between it and the boiler.

1,780,284. FINELY-DIVIDED-FUEL-BURNING BOILER FURNACE. JOHN VAN BRUNT, Flushing, N. Y., assignor to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed May 5, 1926. Serial No. 106,813. 7 Claims. (Cl. 122—235.)



1. In combination, a boiler furnace having its side and end walls comprised of upright tubular water walls upper and lower drums and upper and lower headers, the tubes of the end walls being connected into said upper and lower drums, the tubes of the side walls being connected into said upper and lower headers, the upper headers being connected to an upper drum and the lower headers being connected to the opposite lower drum, and an economizer section integral with said boiler comprising water tubes directly connecting the lower and upper drums of the rear end wall, said economizer section constituting the sole downcomer for the boiler, said tubular water walls being subject to radiant heat and the tubes of the economizer section being subject to the heat of convection of the gases of combustion.

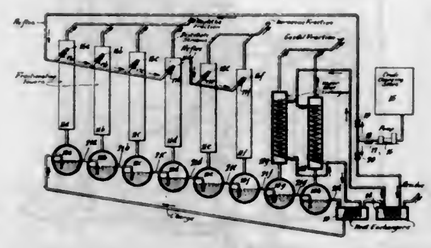
1,780,285. BOILER. JOHN VAN BRUNT, Flushing, N. Y., assignor to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed May 24, 1926. Serial No. 111,138. 1 Claim. (Cl. 122—235.)



In combination, a furnace shaped tubular boiler, the tubes of which have abutting fins throughout a portion of

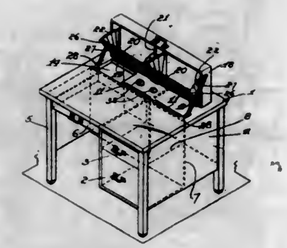
their length and a superheater, the tubes of which are located in the spaces between unfinned portions of the boiler tubes, said superheater tubes and boiler tubes being in substantial juxtaposition, the fins, boiler tubes and superheater tubes cooperating to form a substantially continuous wall marginal of the combustion space.

1,780,286. TREATING HYDROCARBON OILS. CLAUDE W. WATSON, Port Arthur, Tex., assignor to The Texas Company, New York, N. Y., a Corporation of Delaware. Filed July 1, 1927. Serial No. 202,782. 3 Claims. (Cl. 196—73.)



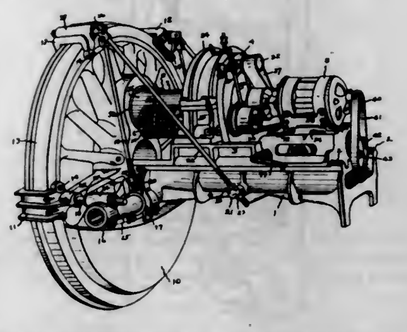
1. In the fractional distillation of hydrocarbon oils, the process which comprises passing the oil through a battery of series-connected stills provided with fractionating towers wherein the oil is exposed to progressively increasing temperatures, subjecting vapors evolved from the stills to fractionation in the fractionating towers, condensing and collecting vapors evolved from the first several stills of the series whereby a distillate fraction is formed containing the more volatile constituents of the oil charge, dividing the charge into a larger and a smaller portion, introducing the smaller portion as a reflux medium to those fractionating towers corresponding to the stills from which vapors forming said distillate fraction are obtained, and introducing the larger portion of the charge into the first still of the series.

1,780,287. OFFICE DESK. CLEM E. WHEELER, Oak Park, Ill. Filed May 5, 1926. Serial No. 106,812. 9 Claims. (Cl. 45—6.)



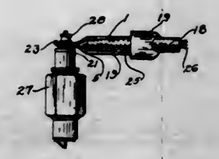
1. An office desk comprising a substantially flat work top and filing compartments, certain of said compartments being located within the desk beneath the top thereof, a receptacle hingedly connected to the desk and containing certain other of said filing compartments, the slot in the desk top communicating with the interior compartment and arranged in co-operative relation to the compartments in said receptacle, a front member hinged at the lower edge and adapted to be limitedly tilted forwardly to present an open entrance into the receptacle, end members carried by the front member of the receptacle for interlapping the fixed ends of the receptacle and accommodating the opening and closing movement of said front member, said end members comprising a plurality of respectively inter-lapping sectors totaling when extended, a width greater than the fore-and-aft depth of the receptacle, and being individually in width less than said fore-and-aft depth.

1,780,288. GRINDING MACHINE. HENRY H. YERK and WILLIAM J. BAUMBERGER, Davenport, Iowa, assignors to Micro Machine Company, Bettendorf, Iowa, a Corporation of Iowa. Filed Aug. 23, 1926. Serial No. 130,886. 13 Claims. (Cl. 51—43.)



1. A grinding machine for grinding external cylindrical surfaces comprising, in combination, a bed, a carriage slidable on said bed, an annular headstock rotatably mounted on said carriage and arranged that portions of the work to be ground may extend into the annular space thereof, a rotatable grinding wheel spindle carried by said headstock, a power shaft on said carriage having its axis in longitudinal alignment with the axis of said headstock, means for rotating said headstock from said power shaft, and means for rotating said grinding wheel spindle on its own axis from said power shaft during the rotation of said headstock, whereby said grinding wheel spindle may be caused to rotate on its own axis and simultaneously in an orbital path about the surface to be ground.

1,780,289. TERMINAL CONNECTER FOR ELECTRICAL CONDUCTORS. FRANK W. ZEPP, San Francisco, Calif. Filed Jan. 11, 1929. Serial No. 331,728. 8 Claims. (Cl. 173—269.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)

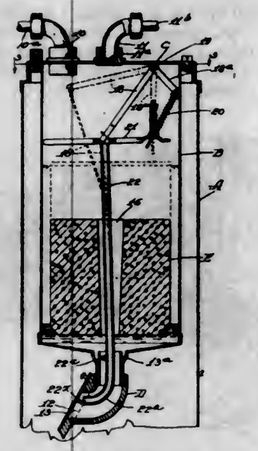


1. A blank of sheet metal adapted to be formed into an electrical terminal for insulated cables comprising a central body portion, a V-shaped prong projecting from one end thereof, a plurality of V-shaped prongs extending from the other end thereof, and a central prong projecting within said central body portion.

1,780,290. VACUUM FUEL-FEED DEVICE. J LEWIS ANDREWS, Elmwood Park, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a Corporation of Virginia. Filed Jan. 18, 1929. Serial No. 333,323. 9 Claims. (Cl. 103—236.)

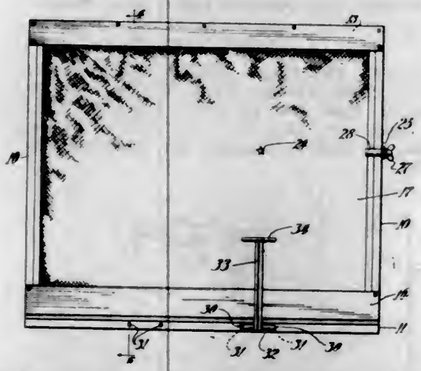
1. In a construction for lifting liquid fuel by suction, in combination with a receptacle comprising a vacuum chamber having a restricted suction connection, a liquid inflow

connection and a liquid discharge port at the lower part; a valve at the liquid discharge port adapted to open in the direction of gravity flow of the liquid on the release of the suction; a tubular lever having its tubular cavity extending from the point in the chamber above the high liquid level thereof, downwardly to the liquid discharge



port, and open at said port and terminating in position for operating the discharge valve thereof for opening the same; a float in the chamber and link and lever connections from the float to the tubular lever arranged for actuating said tubular lever in discharge-valve-opening direction upon the rise of the float to a predetermined height.

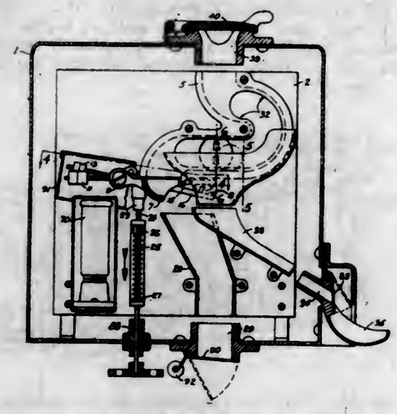
1,780,291. OPTICAL APPARATUS. ALEXANDER S. CAMERON, Chicago, Ill., assignor to William J. Cameron, Chicago, Ill. Filed Dec. 6, 1928. Serial No. 324,096. 15 Claims. (Cl. 88—20.)



1. An optical apparatus comprising a translucent screen having a fixation point upon the side towards the patient, and having a diagram upon the opposite side showing definite optical fields which diagram is normally invisible to the patient and means for displaying and moving a test object to any position upon the screen, which object is visible from both sides of the screen.

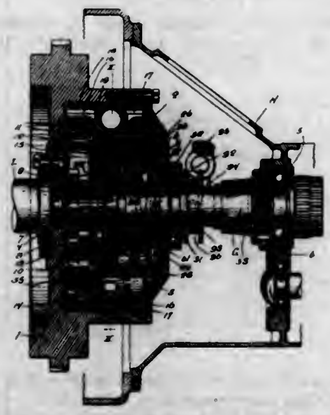
1,780,292. AUTOMATIC LIQUID-FUEL DISPENSER. CHARLES BRAHY, New York, N. Y., assignor to Charles E. Marion, New York, N. Y. Filed Oct. 8, 1929. Serial No. 398,162. 8 Claims. (Cl. 194—13.)

5. In an automatic liquid fuel dispenser, a coin actuated control mechanism containing a pivotally mounted temporary coin receptacle, independently and pivotally mounted supporting means provided with means adapted to hold said receptacle against rotation and a shaft on which said receptacle and said supporting means are both mounted; two contact points, one carried by said receptacle and the other by said supporting means; means to bring said points into abutment; balancing means to yieldably hold said receptacle and said supporting means



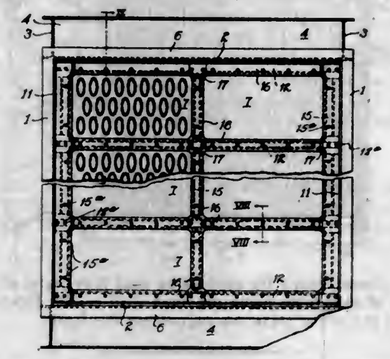
against rotation; said balancing means being adjustable to cause said supporting means to yield when the coin deposited within said receptacle is of greater than a predetermined weight, thereby causing said points to separate and permitting said receptacle to continue on its downward course due to the weight of the coin therein, until said coin is caused to drop into a suitably positioned coin box.

1,780,293. AUTOMATIC TRANSMISSION. HOWARD E. CHRISTIE and KIBBEY W. COUSE, Bronx, N. Y., assignors to C. N. K. Transmission Corp., New York, N. Y., a Corporation of New York. Filed July 15, 1925. Serial No. 43,749. 12 Claims. (Cl. 74—34.)



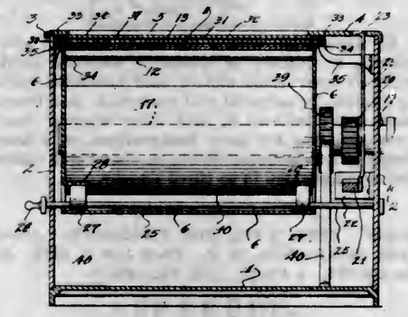
1. A power transmitting mechanism comprising a drive shaft, a driven shaft, a pair of gripping devices connecting said shafts, means whereby said gripping devices are operable respectively to effect "high speed" and "low speed" connections between said shafts, and fluid pressure means automatically operable in response to an increase in load upon the driven shaft to cause operation of one of said gripping devices and in response to a decrease in load upon the driven shaft to cause operation of the other gripping device, both without dropping the load.

1,780,294. HEAT-EXCHANGING APPARATUS. ARCHIBALD H. DAVIS, Jr., Pittsburgh, Pa., assignor to Shaw-Perkins Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 1, 1929. Serial No. 336,746. 6 Claims. (Cl. 257—236.)



1. Heat exchanging apparatus comprising a framework, rails supported horizontally in two opposite ends in the framework, radiator units comprising parallel tubes and headers connected to the ends of the tubes disposed in the frame work with the headers slidably supported between the adjacent rails to be individually laterally removable from the framework, vertical bars positioned between the rails at the ends of the headers, and clamping members engaging said headers removably connected to said rail members and bars, the rails at one end of the apparatus being adapted to move in the framework to permit expansion of the radiators.

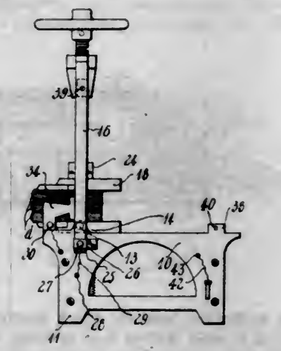
1,780,295. LISTING MACHINE. CHARLES B. EDWARDS, Mount Clemens, Mich. Filed May 17, 1929. Serial No. 363,844. 7 Claims. (Cl. 282—16.)



7. In a listing machine, a casing, a carriage, means for raising and lowering the carriage in the casing, a pair of rolls for supporting a paper strip manually rotatable in the carriage, the paper strip being wound on the rolls and extending therebetween, means for advancing the paper strip by movement of the carriage in one direction, indicating means, means for causing the indicating means to move with the paper strip, and means for disassociating said last named means from the indicating means during movement of the carriage.

1,780,296. BOOK-BACKING AND PRESS-MACHINE COMBINATION. JACOB W. GROSS, Hartford, Conn. Filed Nov. 5, 1928. Serial No. 317,430. 4 Claims. (Cl. 11—1.)

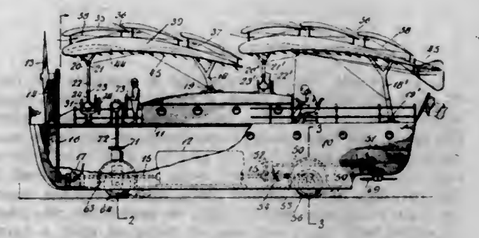
1. A bookbinding press comprising a frame, a yoke pivoted to the frame, a fixed press member carried by the yoke, a movable press member carried by the yoke, means for forcing the members towards each other, means for holding the yoke in either horizontal or vertical position to permit a book being bound to be worked upon in several operations in the same press, and a counterbalancing spring normally urging the yoke into vertical position.



1,780,297. PROCESS OF ELECTRIC FLASH WELDING. WARREN F. HEINEMAN, Shorewood, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Mar. 26, 1930. Serial No. 439,262. 3 Claims. (Cl. 219—10.)

1. The process of electric flash welding comprising first flashing uneven edge portions away to obtain an accurate parallelism of the edges to be welded, then abutting the edges under light pressure while maintaining the application of welding current thereacross to obtain a distribution of heat in the metal adjacent the edges, then establishing a flashing arc between the edges to heat the metal thereof to welding temperature, and finally abutting the edges under heavy pressure and discontinuing the application of the welding current to obtain a fusing and welding of the metal of the edges and to give the required upset to the weld.

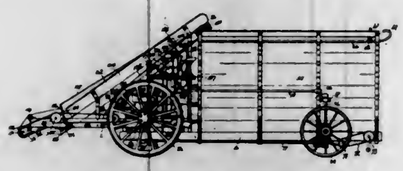
1,780,298. CRAFT ADAPTED TO TRAVEL ON LAND OR WATER OR IN THE AIR. JEAN BAPTISTE ICRE, New York, N. Y. Filed Jan. 22, 1929. Serial No. 334,190. 8 Claims. (Cl. 244—12.)



1. In aircraft, a body, a wing connected with said body movably and adapted to assume different inclinations, a compressible cushion interposed between the wing and the body, and a gauge for indicating the condition of said cushion.

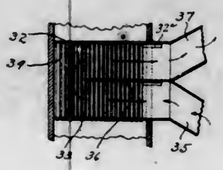
5. In a craft of the character described, a body, a main wing connected with said body movably and adapted to assume different longitudinal inclinations, and side portions movably connected with said main wing to swing about axes extending lengthwise of said main wing.

1,780,299. SHOCK LOADING AND UNLOADING MACHINE. JOHN W. JACKSON, Moose Jaw, Saskatchewan, Canada. Filed Feb. 17, 1927, Serial No. 169,093, and in Canada Feb. 24, 1927. 3 Claims. (Cl. 214—82.)



1. In a gathering tank for shock loading machines, a tank having a solid bottom and vertical sides diverging rearwardly, rails mounted below and inside the top of said diverging sides, endless carriers mounted on the bottom of said tank, means to actuate said carriers from the driver's seat, an end gate comprising a vertical portion extending to the top of said tank sides, antifriction wheels mounted adjacent the top of said vertical sides, positioned to travel on said rails, a platform extension fastened to the lower end of said end gate at right angles thereto, and normally resting on said carriers, and means at the rear of said rails to prevent the said antifriction wheels from leaving said rails when the end gate is swung rearwardly.

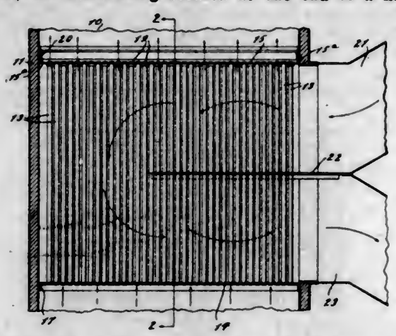
1,780,300. HEAT-TRANSFER DEVICE. DAVID S. JACOBUS, Montclair, N. J., and WILLIAM A. JONES, West New Brighton, N. Y., assignors to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Apr. 21, 1926. Serial No. 103,443. 15 Claims. (Cl. 251—224.)



1. In an air heater comprising a plurality of rows of vertically extending tubes, a single upper and a single lower plate each provided with openings through which the upper and lower ends, respectively, of the tubes pass, the tubes being secured at one end to a first of said plates and the other ends thereof being slidably received in the openings of the second plate, and associated means for supporting said second plate on said tubes, the plate to which said tubes are secured being of such a thickness that its own weight and the weight of the tubes secured thereto would normally cause said plate to sag substantially.

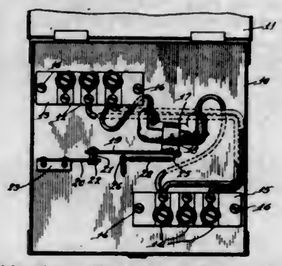
1,780,301. FLUID HEATER. WILLIAM A. JONES, West New Brighton, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Aug. 9, 1927. Serial No. 211,742. 8 Claims. (Cl. 257—224.)

1. In a fluid heater, a plurality of vertically extending tubes, upper and lower plates provided with openings in which the upper and lower ends of said tubes are received, the tubes being secured at one end to a first of



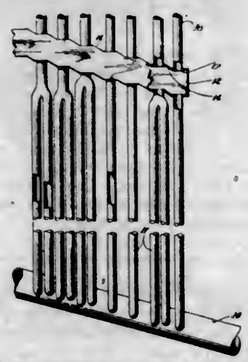
said plates, means for supporting said first plate, at least some of said tubes being provided with collars located beneath the other plate for supporting the latter.

1,780,302. ACTUATOR FOR CONTROLLING DEVICES. LAWRENCE E. KOCH and HENRY F. DEVER, Elkhart, Ind., assignors, by mesne assignments, to Time-O-Stat Controls Company, Elkhart, Ind., a Corporation of Maryland. Filed May 5, 1928. Serial No. 275,370. 3 Claims. (Cl. 200—122.)



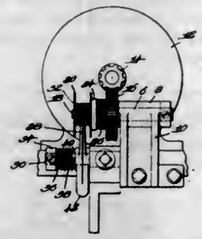
1. In combination with a thermally operated actuator comprising a plurality of bimetallic elements connected together at their ends, one of said bimetallic elements being electrically actuated and controlled, said bimetallic elements being opposed to each other whereby they are self compensating for room temperatures, of a mercury contactor switch mounted wholly on one of said bimetallic elements and adapted to be tilted thereby.

1,780,303. FIRE WALL FOR FURNACES. ABBOT A. LANE, New Rochelle, N. Y. Filed Apr. 7, 1928. Serial No. 268,092. 1 Claim. (Cl. 122—235.)



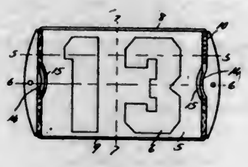
A water wall for furnaces comprising a lower feed pipe, a plurality of vertical pipes extending upward from said feed pipe, a header at the tops of said pipes and secured thereto, said header being of a generally inclined character and having spaced parallel upper and lower walls including spaced horizontal wall portions and inclined portions connecting said horizontal portions, the tops of the vertical pipes extending through the bottom horizontal wall portions and being bent over on the interior thereof, and other vertical pipes projecting upwardly from the header and communicating therewith, the lower ends of said last mentioned pipes extending through the top horizontal wall portions of the header and having their ends bent over on the interior of said header, substantially as described.

1,780,304. BOBBIN-WINDING MACHINE. BERNARD T. LEVEQUE, Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 18, 1928. Serial No. 270,907. 6 Claims. (Cl. 242—22.)



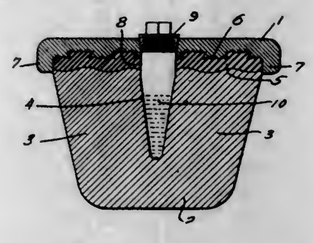
1. A bobbin winding machine having, in combination, a bobbin supporting spindle, a driver for the bobbin, means adapted for one position of the bobbin lengthwise of the spindle to operatively connect the bobbin to the driver, means tending constantly to move the bobbin out of operative position, and a thread contact finger adapted through contact with the bobbin flanges to hold the bobbin in operative position and to be moved by the thread mass from between the flanges to release the bobbin.

1,780,305. FRAME FOR DISPLAY SIGNS AND THE LIKE. IWAN LIPKOWSKI, Detroit, Mich. Filed Apr. 8, 1929. Serial No. 353,328. 2 Claims. (Cl. 40—125.)



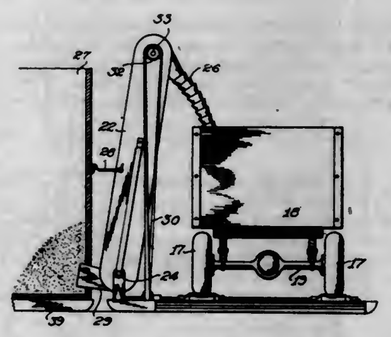
1. In a display sign, the combination with a slab having recesses in its side edges, of a frame therefor having a rear portion backing said slab and integral side, top and bottom flanges adapted to engage the sides of the slab, the top and bottom flanges being formed with infolded end tabs angularly disposed to the remainder of such flanges, and the side flanges of the frame being formed with spaced walls enclosing the inturned tabs of the top and bottom flanges, portions of the side flanges being crimped into the recesses of the slab to secure the slab within the frame.

1,780,306. VEHICLE TIRE. CHARLES M. MANLY, deceased, Kew Gardens, N. Y., by John M. Manly, Chicago, Ill., Basil M. Manly, Washington, D. C., and William G. Manly, Columbia, Mo., executors, assignors to Overman Cushion Tire Company, Inc. Filed May 21, 1928. Serial No. 279,580. 3 Claims. (Cl. 152—1.)



1. A tire comprising in combination a metal base-band, a rubber tire-body vulcanized to the outer peripheral surface of said base-band, said tire being hollow with a closed circumferentially extending cavity formed between said rubber tire-body and said base-band; and a heat transferring liquid contained within said cavity to transfer the interior body heat to the base-band.

1,780,307. PORTABLE GRAIN-LOADING DEVICE. ARPAD MCLENNAN, Kitscoty, Alberta, Canada. Filed Jan. 15, 1929, Serial No. 332,603, and in Canada June 8, 1928. 3 Claims. (Cl. 198—203.)

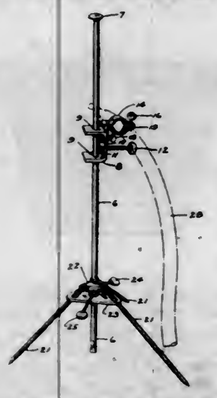


1. A portable grain loading device including a platform having longitudinal shafts thereon with pairs of rollers adjacent opposite ends; side extensions hinged to said platform; a grain elevator hinged to one end of said platform and supported in upright position thereon for operation; said grain elevator being adapted to be folded down over said platform for transportation purposes; said side extensions of the platform being adapted to be folded up against said grain elevator for transportation purposes; a support on said platform for said grain elevator when the latter is folded down in inoperative position on said platform; and means for transferring power from one of said shafts to said grain elevator to operate the latter when in operative upstanding position.

1,780,308. ADJUSTABLE WATER-SPRINKLER HOLDER. ALBERT S. MORRIS, Oakland, Calif. Filed Aug. 29, 1928. Serial No. 302,775. 2 Claims. (Cl. 248—29.)

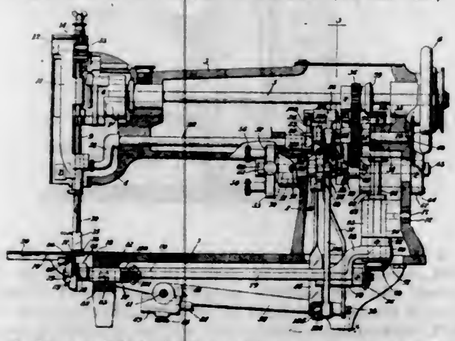
1. A device of the character described having in combination, a tripod consisting of a plurality of legs pivotally fastened on a tripod head; a rod vertically mounted in and through the tripod head and constructed to be slidable therein; a plate, having a plurality of holes for the

legs to project through, mounted slidable on said rod underneath the tripod head; said tripod legs being mounted slidable in the holes of said plate; the holes in said plate being so arranged that the legs are spread apart when the plate is moved on the rod toward the tripod head and are moved toward each other when the plate is moved



on the rod away from the tripod head; a holder mounted vertically and circumferentially adjustable on the rod above the tripod head; means for fastening the tripod head adjustable on said rod; and threaded means constructed to extend through a portion of the plate and be applied against the rod to hold the plate vertically adjustable directly on the rod.

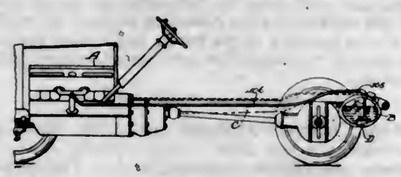
1,780,309. STITCH-FORMING MECHANISM FOR SEWING MACHINES. WALTER MYERS, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed July 3, 1929. Serial No. 375,615. 18 Claims. (Cl. 112—59.)



1. In a sewing machine, an endwise reciprocatory needle, a loop-taker cooperating with said needle in the formation of stitches, mechanism for vibrating the needle laterally, and compensating mechanism for insuring cooperative relation between the loop-taker and the needle during lateral vibrations of the latter, which compensating mechanism is ineffective during vibrations of the needle from its position of non-vibration to a predetermined extent of vibration and is rendered effective for vibrations of the needle beyond said predetermined extent.

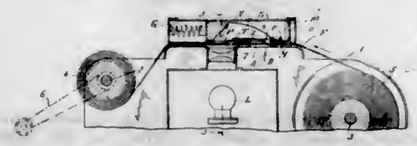
1,780,310. FUEL-FEEDING APPARATUS FOR INTERNAL-COMBUSTION ENGINES. JOHN K. OLSEN, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a Corporation of Virginia. Filed Mar. 17, 1927. Serial No. 175,954. 6 Claims. (Cl. 261—72.)

1. In a construction for the purpose indicated comprising a container for fuel and connections therefrom for conducting fuel to the engine intake, apparatus in the container for effecting delivery of fuel therefrom through said connections, said aparatus comprising two conduits constituting said connections, a receptacle consisting of an upwardly open cup and a top plate applied liquid-tight onto the upper margin of the cup, said top plate having apertures for liquid-tight junction therewith of said two conduits; one of said conduits leading to the atmosphere



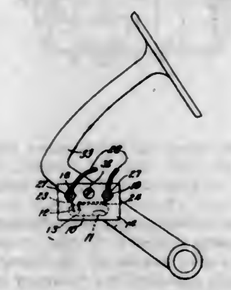
and the other constituting the fuel delivery connection; a member interposed between the upper margin of the cup, and said top plate comprising a web and flange dimensioned for completely covering and closing the first mentioned cup at the top of the latter, and comprising a depression dimensioned horizontally for spanning and effecting the coupling together of the two conduits at the under side of said cover plate.

1,780,311. MOVING-PICTURE MACHINE. ARMANDO PAPÒ and AUGUSTO GENTILINI, Rome, Italy. Filed Sept. 9, 1925. Serial No. 55,260. 23 Claims. (Cl. 88—16.8.)



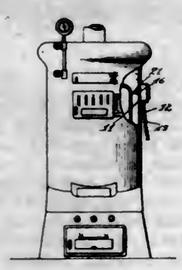
1. In a motion picture machine the combination of an optical system having a portion of its optical axis parallel with the plane of the film, and including a reflector properly spaced from a projecting lens, said system being adapted to be moved in synchronism with the film during the projection of the picture, means for moving said reflector comprising a film-engaging member carired thereby adapted to be engaged directly by the film and transmit the movement of the film to said reflector, said reflector registering intermittently with said picture to transmit light to said projecting lens, and means for continuously advancing said film.

1,780,312. MOUNTING FOR ELECTRICAL SWITCHES. LOUIS A. M. PHELAN, Beloit, Wis., assignor, by mesne assignments, to Time-O-Stat Controls Company, Elkhart, Ind., a Corporation of Maryland. Filed July 19, 1923. Serial No. 652,540. 3 Claims. (Cl. 200—59.)



1. A switch device comprising a tiltably operated liquid contactor tube, a housing therefor formed of two co-operating portions of insulating material for enveloping said tube, means fixed to one of said portions for removably attaching the other portion thereto, said means serving as electrical terminals for the electrodes of said tube, and means for fixing the tube rigidly in one of the portions of said housing.

1,780,313. FUSIBLE SWITCH PLUG. LOUIS A. M. PHELAN, Elkhart, Ind., assignor, by mesne assignments, to Time-O-Stat Controls Company, Elkhart, Ind., a Corporation of Maryland. Filed July 5, 1927, Serial No. 203,318. Renewed Apr. 7, 1930. 6 Claims. (Cl. 200—142.)



1. A thermally controlled circuit breaker comprising an apertured plug, a stationary insulating member and a relatively movable insulating member mounted on said plug, coacting contact making members mounted on each of said insulating members, means between said insulating members to disengage said contact members, thermally controlled means normally restraining said disengaging movement, and a heat conducting element disposed in said plug aperture in thermal contact with said restraining means.

1,780,314. COLORING AGENT FOR FABRICS AND METHOD OF MAKING SAME. ANTON PICAREFF, New York, N. Y., assignor to Anton Picareff Art Studios, Inc., New York, N. Y., a Corporation of New York. Original application filed May 14, 1927, Serial No. 191,551. Divided and this application filed May 21, 1929. Serial No. 364,946. 3 Claims. (Cl. 8—6.)

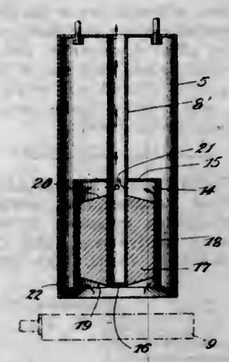
1. A coloring agent for fabrics consisting of a basic dye stuff, gum acacia, and tannic acid in an aqueous solution.

1,780,315. GREASE. OTTO C. SCHMIDT, Sharpsburg, Pa. Filed Nov. 17, 1928. Serial No. 320,212. 4 Claims. (Cl. 87—9.)

3. A lubricating compound containing paraffin wax, petroleum oil and sheep wool grease.

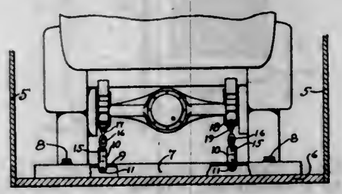
1,780,316. HOT-WATER TANK. GERHARDT F. SCHWARTZ, St. Louis, Mo. Filed Feb. 10, 1928. Serial No. 253,334. 1 Claim. (Cl. 122—156.)

A tank for storage water heaters having a central flue for heated air and gases extending therethrough and closed at its lower end, a flue section of relatively large diameter surrounding the lower end portion of said central flue and having a top wall closing the upper end thereof, the lower end of said flue section being open to receive the heated air and gases, a cylindrical deflecting member fixed to the lower end portion of the central flue within said enlarged flue section and having a cylindrical surface adjacent to the vertical wall of said flue section to provide a narrow annular passage therebetween for the air and gases, and the wall of said central flue between the upper end of said deflecting member and the top wall of said enlarged



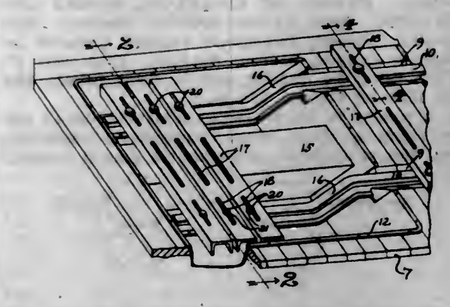
flue section having a plurality of openings therein for the passage of the gases from said enlarged flue section into the central flue.

1,780,317. SHIPPING DEVICE. CLIFFORD L. SNYDER, Detroit, Mich., assignor to The Evans Auto Loading Co. Inc., a Corporation of Delaware. Filed Feb. 27, 1929. Serial No. 343,087. 2 Claims. (Cl. 105—368.)



1. In combination, a supporting floor, a channel member secured to the floor and having a slot therein, a second member secured to the channel member through the slot, being movable along the slot, said second member being also movable to extend substantially vertical or substantially horizontal, as desired, and having means thereon for attachment of a vehicle hold-down.

1,780,318. SHIPPING DEVICE. CLIFFORD L. SNYDER, Detroit, Mich., assignor to The Evans Auto Loading Co. Inc., a Corporation of Delaware. Filed Feb. 27, 1929. Serial No. 343,088. 5 Claims. (Cl. 105—368.)

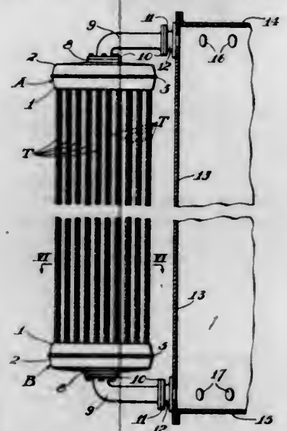


1. In combination, a freight car or the like, a guideway adjacent the floor of the car, a member secured to the car and movable along the guideway, said member having means for attachment of a shipping device there-

to, a pan in the car floor, extending beneath the surface of the floor and means for moving said member into said pan.

3. In combination, a freight car or the like, a guide rail extending longitudinally along the floor thereof, one end of said rail being offset downwardly, and a member secured to and movable along said rail to positions either on the normal portion of said rail or on the depressed portion thereof, said member having means for attachment of a shipping device thereto.

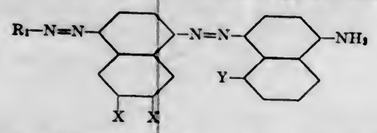
1,780,319. DEFORMED TUBE RADIATOR. CHARLES SONNEBORN, West Pittsburg, Pa., assignor to Shaw-Perkins Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 17, 1926. Serial No. 155,410. 1 Claim. (Cl. 257–191.)



A radiator adapted to be directly attached to and supported by a transformer cooling tank comprising sheet-metal headers having elliptical openings punched therein, inturned flanges bounding said openings, tubes comprising welded seams connecting the headers and attached thereto, the ends of the tubes extending into the openings and the edges of the tube ends being welded to the said bounding flanges, the tubes being formed of sheet-metal and having smooth elliptical shaped ends adapted to fit into said openings, the intermediate body of the tubes being deformed to provide a middle circular portion with open flattened wings extending therefrom on opposite sides thereof, the seams of the tubes lying in said circular portion.

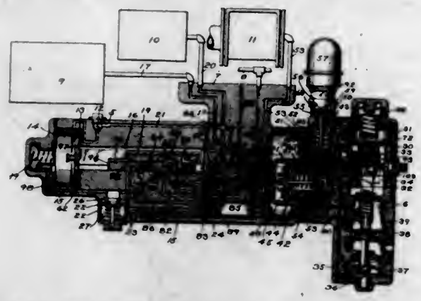
1,780,320. DYEING OF CELLULOSE ESTERS AND ETHERS. ERIC ALFRED SPEIGHT, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited, London, England. Filed Apr. 27, 1929, Serial No. 358,766, and in Great Britain May 30, 1928. 8 Claims. (Cl. 8—5.)

1. A process for the production of black shades on cellulose esters or ethers which comprises the application to the fibre of a disazo dye having the general formula:



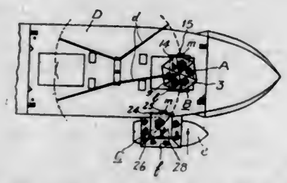
wherein one X represents hydrogen and the other X represents hydrogen or a sulphonic group, R_1 represents a benzene residue free from sulphonic and carboxylic groups, and Y represents an auxochromic salt-forming group.

1,780,321. TRIPLE-VALVE DEVICE. THOMAS H. THOMAS, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa, a Corporation of Pennsylvania. Filed Nov. 30, 1928. Serial No. 322,634. 5 Claims. (Cl. 303—39.)



1. In a fluid pressure brake, the combination with a brake pipe and a brake cylinder, of a pipe bracket, connections from said brake pipe and said brake cylinder to said pipe bracket, a reservoir in said pipe bracket, and a plurality of valve devices carried by the pipe bracket for controlling the supply of fluid to the brake cylinder, one of said valve devices being operative upon a reduction in brake pipe pressure for connecting said brake pipe to said reservoir to effect a predetermined local reduction in brake pipe pressure.

1,780,322. APPARATUS FOR ENABLING HATCH LOADING IN THE RAIN FOR SHIPS OR THE LIKE. SHINGO TSUJI, Tokyo, Japan. Filed July 9, 1928, Serial No. 291,405, and in Japan Aug. 4, 1927. 2 Claims. (Cl. 214—15.)

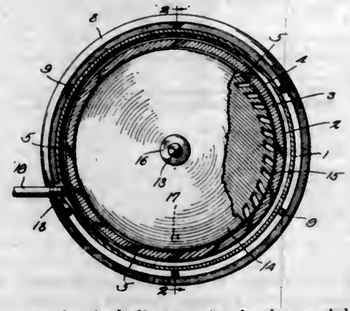


2. In loading apparatus of the class described, in combination with a crane having a hoisting tackle comprising a pulley and a cord, an umbrella-like protecting means comprising a fabric, a lower runner member through which the hoisting cord freely passes, rods arranged radially with respect to said lower runner member and on which said fabric bears, said rods being pivotally connected to said lower runner member, an upper runner member through which also the hoisting cord freely passes, cords connecting the upper and lower runner members, cords pivotally connected at their upper ends to the upper runner member and connected at their lower ends to the peripheral portion of said fabric, cords suspending said upper runner member from the crane and a stop element on the hoisting cord below the lower running member and arranged when the hoisting cord moves upwardly, to engage and thereby cause the lower runner member to move upwardly, so that the fabric becomes folded.

1,780,323. UTILIZATION OF GALVANIZER'S WASTE. WILLIAM GEORGE WARING, Webb City, Mo. Filed July 6, 1929. Serial No. 376,503. 5 Claims. (Cl. 75—18.)

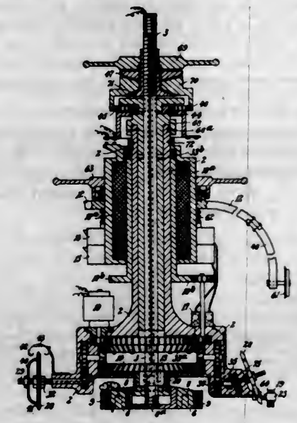
1. In the utilization of galvanizers' waste, the process which comprises wet grinding such waste, screening out metallic particles, neutralizing the screened slurry, distilling off ammonia, oxidizing to convert ferrous iron into ferric, filtering the slurry and washing the solids to remove chlorids and extracting the washed solids with ammonium carbonate solution to dissolve and remove zinc while leaving lead compounds undissolved.

1,780,324. STEAM ENGINE. WILLIAM A. WEBSTER, Galesburg, Ill., assignor of one-third to Leon J. Castle, Abingdon, Ill. Filed Jan. 28, 1928. Serial No. 250,227. 1 Claim. (Cl. 253—56.)



A steam engine including a rotor having peripheral recesses gradually increasing in depth from their ends toward their centers and having opposed flat faces, all of the recesses being disposed at a tangent to a single imaginary circle concentric with the rotor, and a stator housing the rotor, said stator including opposed heads, each having a space in the inner side thereof substantially coextensive with the rotor, concentric contacting rings interposed between the heads and surrounding the rotor, and means for clamping the heads on the rings, there being registering grooves in the meeting faces of the rings forming a continuous distributing passage, a steam inlet port in the outer ring opening into said passage, and a plurality of outlet ports in the inner ring for directing jets of steam from the distributing passage into the recesses, said ports being tangentially disposed, the ports farthest from the inlet being spaced apart greater distances than those ports adjacent the inlet, there being clearance between the rotor and the heads for the escape of steam laterally from the peripheral recesses in the rotor to the spaces in the heads, and outlet ports in the heads communicating with the spaces.

1,780,325. TREPAN TOOL WITH RADIAL CAGE, CUTTER, AND GUIDE. ERNEST WILLIAMS, Stone, England. Filed Oct. 16, 1926, Serial No. 142,131, and in Great Britain Oct. 29, 1925. 24 Claims. (Cl. 29—67.)

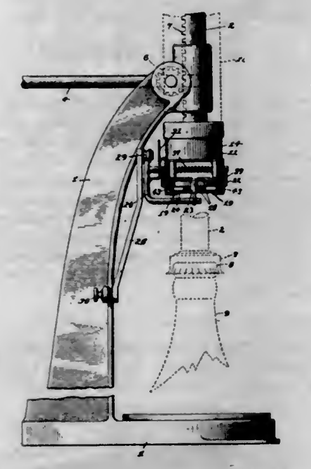


3. A trepan machine for making annular cuts, comprising a plurality of rotary cutters, a radial cage therefor, radially disposed spindles rotatably mounted in said cage, each spindle having secured thereto a rotary cutter, a central axis upon which is rotatably mounted the radial cage, means for rotating said cutters, means for guiding the cutters in a circular path, means for rotating the cutters at any angle in relation to the radial cage, means for operating the radial cage, and means for supporting the central axis on the work.

1,780,326. ALDEHYDE AMINE CONDENSATION PRODUCT. IRA WILLIAMS and WALDO BRIGGS BURNETT, Pittsburgh, Pa., assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 13, 1925. Serial No. 15,337. 16 Claims. (Cl. 260—130.)

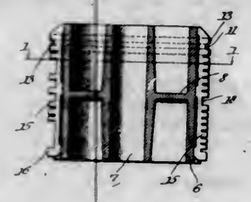
1. As new compositions of matter, the condensation products resulting from the direct reaction with the elimination of water from the reaction mixture during the condensation reaction of one molecular proportion of an amine body with more than two molecular proportions of aliphatic aldehyde having a plurality of carbon atoms in the molecule, which products are yellowish to brown colored, liquid, semi-solid or a morphous solid substances insoluble in water, soluble in organic solvents, highly unsaturated and which absorb oxygen from the air.

1,780,327. BOTTLE-CAPPING MACHINE. COMMODORE B. WOODMAN, Oakland, Calif., assignor of one-half to Oscar Hoffman, Oakland, Calif. Filed July 14, 1928. Serial No. 292,750. 9 Claims. (Cl. 226—84.)



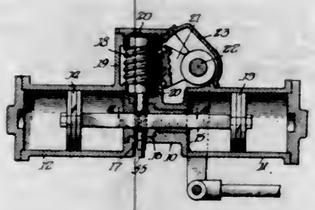
1. The combination with a bottle capping machine having a plunger and die movable to press a cap onto the mouth of a bottle, of a bracket mounted in connection with the plunger; a magazine mounted upon the bracket and arranged to contain a supply of caps; a member slidably mounted upon the bracket and movable to carry caps from the magazine to the die, said member having a body portion and a hinged extension offset below the surface of the body portion to receive a cap; actuating means for reciprocating said member as the plunger is raised and lowered; and means supporting the caps within the magazine and actuated to release the lowermost cap into engagement with the hinged extension each time the member is reciprocated.

1,780,328. KNITTING MACHINE. ELMER U. AMES, deceased, Collingswood, N. J., by Caroline F. Ames administratrix, Haddonfield, N. J. Original application filed Mar. 19, 1926, Serial No. 96,049. Divided and this application filed Apr. 26, 1930. Serial No. 447,694. 19 Claims. (Cl. 66—156.)



10. A pattern element for a knitting machine instrumentality comprising an elongated member having a plurality of selecting means of frangible material in spaced relation along an edge of said member.

1,780,329. REVERSING-GEAR MECHANISM. FRANCIS N. BARD, Highland Park, Ill. Original application filed July 31, 1920, Serial No. 400,478. Divided and this application filed Nov. 28, 1921. Serial No. 518,426. 2 Claims. (Cl. 121—41.)



1. In a reverse gear operating mechanism, a fluid operated motor including a cylinder, a piston operating in said cylinder, a rack bar connected to said piston and extending without the cylinder, a worm arranged with its axis transversely of said rack bar and operated thereby, means connected to the reverse gear for receiving motion from said worm, a casing for said worm, said means and said rack bar and forming a substantially common bearing for the rack bar, and worm, and an extension from said worm through said casing whereby the mechanism may be manually operated.

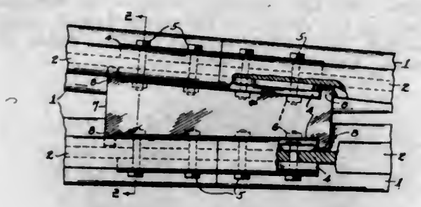
1,780,330. SOAP CAKE AND ART OF MAKING SAME. ROBERT S. BLAIR, Stamford, Conn. Filed Feb. 23, 1923. Serial No. 620,633. 4 Claims. (Cl. 87—23.)



1. A soap cake having an outer solid shell of soap and an inner non-solid soap filling of hard structure and extending throughout the interior of said shell in sponge-like form and of such size as largely to increase the size of the cake.

4. The herein described art which consists in introducing air into a mass of soap in physically soft condition to form therein a mass of air cells of such substantial and readily perceptible size as largely to increase the volume of the soap, permitting the soap to harden, and forming its surface into a substantially smooth shell.

1,780,331. FOOT GUARD. JEFFERSON BRADFORD and CHARLES B. PEOPLES, Butler, Ky. Filed Nov. 14, 1929. Serial No. 407,225. 3 Claims. (Cl. 238—379.)



1. A foot guard of the type indicated comprising a substantially rectangular plate having outwardly laterally directed lugs positioned on one side and adjacent each end.

1,780,332. WATER SPRINKLER. EVERARD CURRIE BRICKHILL, North Fitzroy, Australia. Filed Dec. 16, 1927. Serial No. 240,582. 2 Claims. (Cl. 299—69.)



1. A sprinkler including a rotating cross head, spray arms carried thereby, and a plurality of nozzles removably carried by each of the spray arms and extending laterally therefrom, each of the nozzles being formed with elongated slots in a plane at right angles to the axis of the nozzles, the slots of the nozzles remote from the cross head being of greater width and less length than the slots in the nozzles more nearly adjacent the cross head.

1,780,333. APPARATUS FOR AGITATING THE CONTENTS OF STORAGE VESSELS. WILLIAM H. BROOKS, Oconomowoc, Wis., and WALTER PAGE, New York, N. Y. Filed Apr. 3, 1929. Serial No. 352,159. 5 Claims. (Cl. 259—56.)

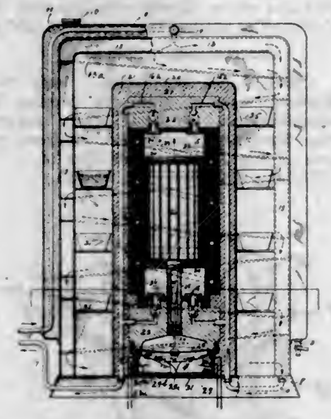


1. Apparatus for agitating the contents of containers comprising a guide way, a conveyer running above the guide way in position to make contact with containers in the guide way and roll them from one point to another, said containers being disposed in transverse position within said guide way and the guide way being bowed upward between its ends to tension the conveyer in contact with all of the containers in the guide way.

1,780,334. ALDEHYDE AMINE CONDENSATION PRODUCTS. WALDO BRIGGS BURNETT and IRA WILLIAMS, Pittsburgh, Pa., assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Feb. 12, 1926. Serial No. 87,956. 31 Claims. (Cl. 260—130.)

1. As new compositions of matter, the aldehyde amine condensation products which are substantially identical with the condensation products obtained by reacting in the presence of an acidic substance and under conditions whereby water is eliminated from the reaction mixture during the condensation reaction, with one molecular proportion of an amino body upon two or more molecular proportions of an aldehyde containing more than two carbon atoms in the molecule and which products are yellowish to brown liquids or amorphous semi-solid or solid substances.

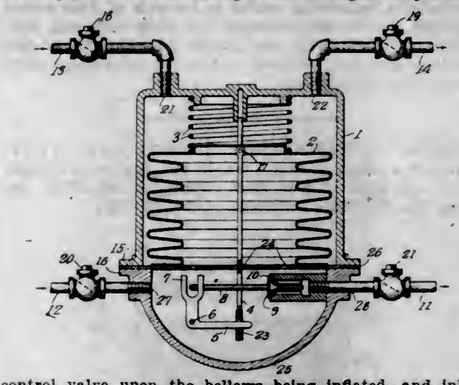
1,780,335. ELECTRICAL PUMP. ALLEN A. CANTON, New York, N. Y., assignor to Cantonice Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 22, 1927. Serial No. 185,673. 9 Claims. (Cl. 230—55.)



1. In an electrically operated pump device, a magnetic field, an armature rotating and sliding in said field, a pump casing surrounding said armature and separating it from the field and means at one end of the armature and casing compelling a reciprocation of the armature while it rotates.

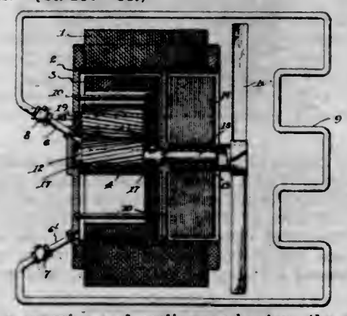
1,780,336. PUMPING MECHANISM. ALLEN A. CANTON, New York, N. Y., assignor to Glacier, Inc., the State of New York. Filed Dec. 31, 1928. Serial No. 329,572. 6 Claims. (Cl. 103—44.)

1. A pump comprising a casing, a plate dividing said casing into upper and lower chambers and extending entirely across the space within the casing, said plate having perforations in its central portion, a bellows diaphragm in said upper chamber having its lower end open and its upper end closed, the lower end of the diaphragm being secured to said plate around the perforations therein, an inlet pipe opening into the lower chamber and provided with a check valve opening toward the lower chamber, an inwardly opening control valve at the inner end of said outlet pipe, a valve actuating device arranged to open said



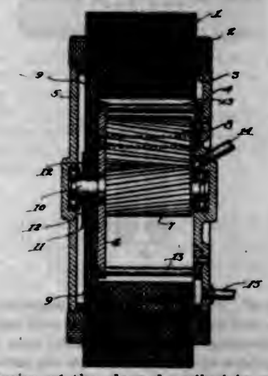
control valve upon the bellows being inflated, and inlet and outlet pipes provided with check valves and communicating with said upper chamber.

1,780,337. PUMPING MECHANISM. ALLEN A. CANTON, New York, N. Y., assignor to Glacier, Inc., the State of New York. Filed Dec. 31, 1928. Serial No. 329,574. 6 Claims. (Cl. 230—58.)



1. In a pumping and cooling mechanism, the combination of a motor field element and two armatures and a plurality of impellers, one driven by each of said armatures, both of said armatures operated by the same field element.

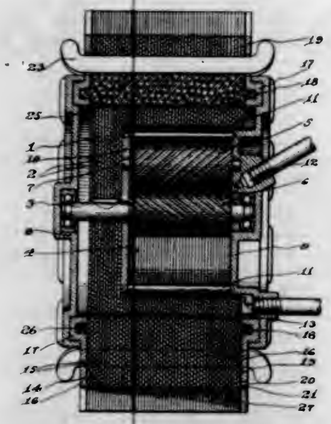
1,780,338. COMBINATION MOTOR AND PUMP. ALLEN A. CANTON, New York, N. Y., assignor to Glacier, Inc., the State of New York. Filed Dec. 31, 1928. Serial No. 329,575. 9 Claims. (Cl. 230—58.)



1. In a device of the class described in combination, a magnetic field element, a revolving armature, a pump

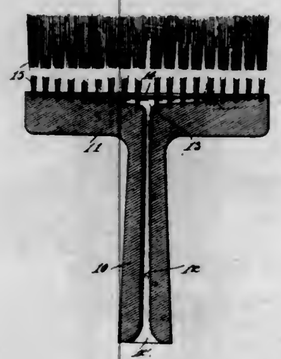
housed in said armature, and means for making said armature leak-proof from said field element, said means consisting of a cylindrical casing and a pair of head plates attached to the field element and fully enclosing said armature, bearings in said plates for said pump, said bearings being fully enclosed and having no opening which leads to the atmosphere.

1,780,339. COMBINATION MOTOR AND PUMP. ALLEN A. CANTON, New York, N. Y., assignor to Glacier, Inc., the State of New York. Filed Jan. 28, 1929. Serial No. 335,725. 5 Claims. (Cl. 172—36.)



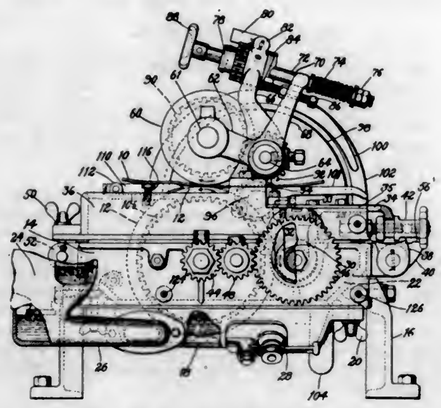
1. In a device of the class described, the combination of an armature, of a stator core surrounding said armature, said stator core consisting of a series of laminations, the end laminations being roughened and coated with a binding compound, flanged rings attached to the said end laminations, end plates attached to said rings, said end plates forming a leak-proof enclosure for said armature.

1,780,340. PLASTERER'S BRUSH OR THE LIKE. JOHN T. COOK, St. Paul, Minn. Filed Aug. 2, 1929. Serial No. 383,136. 2 Claims. (Cl. 15—160.)



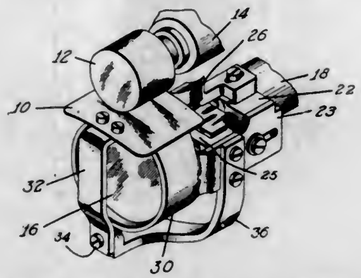
1. A plasterer's brush or the like comprising a handle and a head at one end of said handle, said head having a funnel-like depression in its bristle face, said handle having a drainage bore extending through the same and opening into the center of the said depression and bristles set in the inner face of the said depression.

1,780,341. CEMENTING MACHINE. JOHN W. COSGROVE, Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 22, 1927. Serial No. 207,737. 16 Claims. (Cl. 91—51.)



1. In a cementing machine, an applying roll, a pressure roll associated with said applying roll, a pivotal mounting for said pressure roll, a spring urging said pivotal mounting in a direction to carry the pressure roll toward the applying roll, and means for determining the initial separation of the pressure roll from the applying roll comprising a manually operable member rotatable about an axis normal to the axis of one of said rolls arranged to move said pivotal mounting against the tension of said spring.

1,780,342. CEMENTING MACHINE. JOHN W. COSGROVE, deceased, Medford, Mass., by Caroline E. Cosgrove, administratrix, Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 14, 1929. Serial No. 371,001. 6 Claims. (Cl. 91—18.)



1. In a cementing machine, a cement applying device, a work supporting device disposed below said cement applying device, means for protecting said work supporting device from cement drippings comprising a guard movable between two positions in one of which it is adapted to be interposed between said devices.

1,780,343. PROCESS FOR BREAKING PETROLEUM EMULSIONS. MELVIN DE GROOTE, St. Louis, and LOUIS T. MONSON, Maplewood, Mo., assignors to Wm. S. Barnickel & Company, Webster Groves, Mo., a Corporation of Missouri. Filed Jan. 21, 1929. Serial No. 334,104. 10 Claims. (Cl. 196—4.)

1. A process for breaking a petroleum emulsion of the water-in-oil type, which consists in subjecting the emulsion to the action of a demulsifying agent comprising wood sulfite liquor material and a sulfonic demulsifying body.

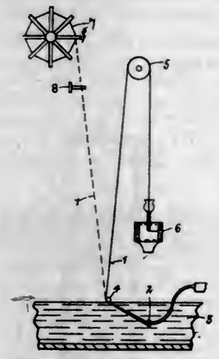
1,780,344. PROCESS FOR BREAKING PETROLEUM EMULSIONS. MELVIN DE GROOTE, St. Louis, LOUIS T. MONSON, Maplewood, and ARTHUR F. WIRTEL, Webster Groves, Mo., assignors to Wm. S. Barnickel & Company, Webster Groves, Mo., a Corporation of Missouri. Filed Jan. 21, 1929. Serial No. 334,107. 16 Claims. (Cl. 196—4.)

1. A process for breaking a petroleum emulsion of the water-in-oil type, which consists in subjecting the emulsion to the action of a demulsifying agent containing an amylated aromatic sulfonic body, characterized by the fact that it will produce an insoluble precipitate with a soluble alkaline earth salt.

1,780,345. PROCESS FOR BREAKING PETROLEUM EMULSIONS. MELVIN DE GROOTE, St. Louis, LOUIS T. MONSON, Maplewood, and ARTHUR F. WIRTEL, Webster Groves, Mo., assignors to Wm. S. Barnickel & Company, Webster Groves, Mo., a Corporation of Missouri. Filed Jan. 21, 1929. Serial No. 334,108. 20 Claims. (Cl. 196—4.)

1. A process for breaking a petroleum emulsion of the water-in-oil type, which consists in subjecting the emulsion to the action of a demulsifying agent, containing a substituted aromatic detergent-froming sulfonic body of the type X F R SO_3 Z; wherein X is a polycyclic aromatic nucleus; F a detergent-forming organic residue, R, an alcohol residue derived from an alcohol of fewer than twelve carbon atoms and substituted in the aromatic ring; SO_3 represents the conventional sulfonic acid residue; and Z represents an hydrogen ion equivalent.

1,780,346. MANUFACTURE OF ARTIFICIAL SILK AND THE LIKE. WILLIAM PORTER DREAPER, Hampstead Heath, England. Filed Jan. 3, 1927, Serial No. 158,838, and in Great Britain Jan. 11, 1926. 2 Claims. (Cl. 118—1.)

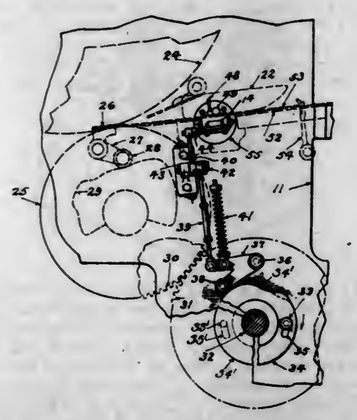


1. In combination with a centrifugal box for spinning artificial silk, an apparatus for practically continuous spinning comprising a skein winder for receiving the strand of filaments during the time of changing the centrifugal boxes, said strand of filaments attached to the jet being led onto the said skein winder.

1,780,347. PROCESS OF MANUFACTURING ALPHA CELLULOSE. LAUAI I. L. DURCHMAN, Petersburg, Va. Filed May 8, 1929. Serial No. 361,546. 4 Claims. (Cl. 92—11.)

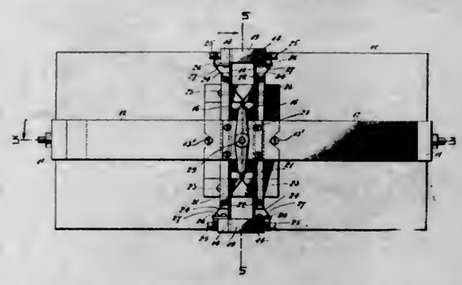
1. A process for producing easy bleaching cellulose which consists in cooking wood chips with black and white sulphate liquor with the addition of sodium sulphite in the proportion of 0.8–1.0% based on the airdry weight of the wood chips, continuing the cooking for a longer period than is the usual practice in the sulphate process, thereby increasing the alphacellulose content, and treating the pulp with a solution containing 2–6% sodium hydroxide and 2–6% common salt.

1,780,348. SHEET-REGISTERING MECHANISM FOR PRINTING MACHINES. WILLIAM K. ECKHARD, Dunellen, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y., a Corporation of New York. Filed Nov. 16, 1928. Serial No. 319,812 5 Claims. (Cl. 271—55.)



1. In combination with a machine having printing cylinders, a sheet registering mechanism of the class described, having two side guides arranged to reciprocate into and out of engagement with the side edges of a sheet being forwarded to the printing cylinders, and separate mechanisms for operating each guide independently of the other, whereby the guide on either side may be made to continue in engagement with the sheet after the guide on the other side has been moved out of engagement with it.

1,780,349. APPARATUS FOR RADIATING SOUND WAVES. RICHARD D. FAY, Cambridge, Mass. Filed Dec. 10, 1927. Serial No. 239,178. 4 Claims. (Cl. 179—115.5.)

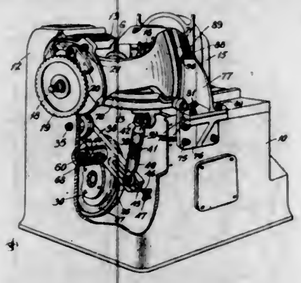


1. A sound-radiating device comprising in combination, means creating a constant magnetic field having two oppositely-disposed gaps, a primary winding without said field, a closed secondary inductively related to said primary and having two oppositely-disposed portions thereof located within said gaps, means suspending said secondary for motion in the direction of its plane, and a tympanum secured to said secondary.

1,780,350. GEAR-GENERATING MACHINE. EYVIND FINSEN, Rochester, N. Y., assignor to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed Oct. 12, 1928. Serial No. 312,173. 20 Claims. (Cl. 90—1.)

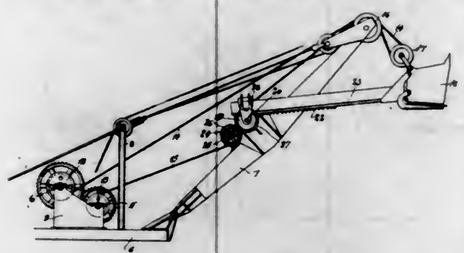
1. In a machine for generating gears, a work spindle, a tool, and means for producing a relative rolling movement between the work spindle and tool including a gear segment connected to the work spindle, a pivotally mounted gear segment, on which the first segment is adapted to

roll having a fixed relation to the tool, said pivotally mounted segment being capable of angular motion about its pivot during the rolling movement, and means for resiliently holding the two segments in mesh.



20. In a gear generating machine, a tool, a work support, an oscillatable cradle upon which the work support is mounted, a work spindle journaled in the work support, a bevel gear segment, having a pitch cone angle less than the pitch cone angle of the gear to be cut, secured to the work spindle, a crown gear segment, with which the first segment is adapted to roll, pivotally mounted at one end on a relatively fixed part of the machine, means for resiliently holding the two segments in mesh, and means for oscillating the cradle including a pair of cams having cam paths so formed as to oscillate the cradle selectively through different sized arcs, said paths being so formed, also, as to align with each other at one point, and a roller operatively connected with the cradle and movable selectively from engagement with one cam into engagement with the other when the roller is at the point of alignment of the two cam paths.

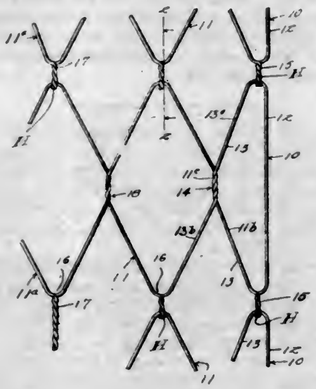
1,780,351. ROPE-THRUSTING SHOVEL WITH DIFFERENTIAL THRUST. MITCHELL L. FYKSE, South Milwaukee, Wis. Filed July 14, 1928. Serial No. 292,779. 6 Claims. (Cl. 214—135.)



1. In a power shovel, including a boom, and a dipper and dipper handle mounted thereon for reciprocation and swinging with respect thereto, the combination of: racks on said handle to effect reciprocation; pinions mounted on said boom and engaging said racks; two drums on the boom to rotate with said pinions; a hoist-rope to swing said dipper, and wound upon only one of said drums, in such a way that the tension in the hoist rope exerts a constant tendency to thrust said dipper outwardly; and a retracting rope wound upon only the other of said drums, thereby being available at will to resist and control said tendency; said second drum being of an effective diameter less than that of said first drum.

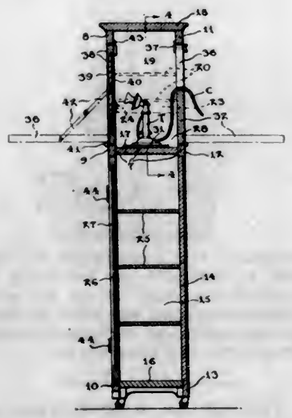
1,780,352. BED-SPRING FABRIC. JOHN JOHNSON, Honolulu, Territory of Hawaii. Filed Aug. 23, 1928. Serial No. 301,560. 3 Claims. (Cl. 245—5.)

1. A bed-spring fabric comprising a series of mesh elements each series extending transversely of the finished fabric, each end element of each series comprising a relatively long straight bar and an integral obliquely directed bar, an adjacent mesh element comprising an integral wire body having four portions, three of which are arranged to form three sides of a diamond, the fourth portion being directed across the oblique bar of the first-mentioned mesh element and connected therewith and



further connected at its end with the end of the straight side of the first mesh element, the other end of the second-mentioned mesh element being connected with the free end of said oblique bar, said twisted ends being formed to provide hooks for engaging the mesh elements of an adjacent section, and interconnected intermediate mesh elements of substantially triangular formation thereof being connected with said second-mentioned elements.

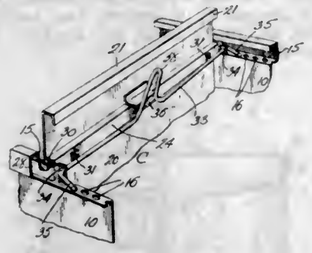
1,780,353. COMBINATION CABINET. MARY WADE JONES, Wilkes-Barre, Pa. Filed July 3, 1928. Serial No. 290,102. 1 Claim. (Cl. 312—189.)



In a combination portable cabinet, the combination of a hollow frame provided with a horizontal partition that divides it into an upper chamber and a lower chamber and forms a top for the lower chamber while forming a floor for the upper chamber, a rear door hinged on said frame and provided with a slot which opens through one edge of the door so a telephone's conducting cord can be passed thereinto while a telephone is being passed through the open rear doorway, to be seated on said partition, and a front door hinged to the frame at the front edge of said partition and movable into positions

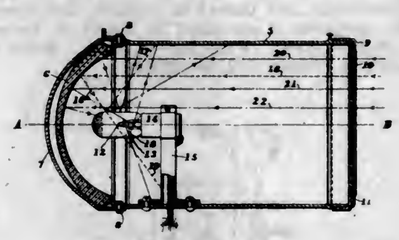
for closing and opening the doorway thereof so the telephone can be moved out therethrough from said partition, and means to combine with the hinges of the front door for supporting it in an open and substantially horizontal position in which it conveniently receives and supports the telephone when it is moved forward from said horizontal partition.

1,780,354. COMPRESSOR AND LOCKING MEANS THEREFOR. OSCAR J. LARSON and JAMES R. JONES, Jamestown, N. Y., assignors to Art Metal Construction Company, Jamestown, N. Y., a Corporation. Filed May 30, 1930. Serial No. 457,662. 12 Claims. (Cl. 129—28.)



12. The combination with a drawer or the like having a longitudinally disposed series of spaced stops, of a compressor adjustable lengthwise of the drawer, a locking bar of resilient material mounted on said compressor and having a part engageable with said drawer stops, and a part on said compressor with which said locking bar engages and by which said bar is normally held under stress in a manner to yieldingly urge said part of said bar in a direction to engage said drawer stops, whereby said bar automatically cooperates with said stops to prevent movement of said compresor in one direction lengthwise of the drawer while permitting movement thereof in an opposite direction.

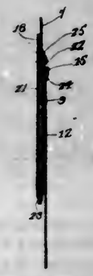
1,780,355. PROJECTOR. STATES LEE LEBBY, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed Nov. 13, 1922. Serial No. 600,501. 3 Claims. (Cl. 177—329.)



3. The combination with a reflector having a principal focal point, of a light source located substantially at the focal point of the reflector, and a transparent enclosure enlongated in the direction of the axis of the reflector and surrounding the light source, the enclosure having walls arranged in positions oblique to rays entering the reflector from an outside source and directed by the reflector in the direction of its focal point.

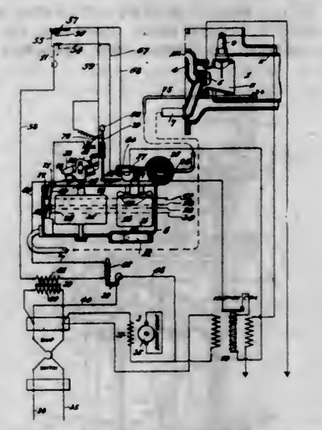
1,780,356. TROUSER. MEYER LIBERMAN, Vallejo, Calif. Filed Mar. 15, 1930. Serial No. 436,203. 1 Claim. (Cl. 2—227.)

In a pocket construction for trousers, the combination of a trouser leg provided in its outer side with a horizontally disposed opening, the portions of said side bordering said opening inturned to provide an upper and a lower outer fold, a backing member opposing the inner face of said side and having its lower portion outturned to provide an upper inner fold, a vertically disposed front wall forming member opposing the inner face of said side and having its upper portion outturned to provide a lower inner fold, a vertically disposed rear wall forming member opposing the rear faces of said members, a pair of reinforcing elements overlapped by said inner folds, the bend provided by the upper inner fold positioned below the bend provided by the upper outer fold, the



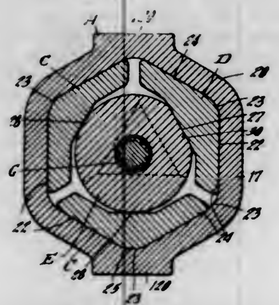
bend provided by the lower inner fold positioned above the bend provided by the lower outer fold, the bends provided by the inner folds contacting, the bends provided by the outer folds being spaced from each other, means for securing said side, the upper folds, backing and rear wall forming members and one of said elements together, means for securing the lower folds, front wall forming member, the other of said elements and said side together, means for securing said wall forming members together, and means for securing said side and backing and rear wall forming members together, and said inner folds opposing said outer folds.

1,780,357. FUEL BURNER AND CONTROL THEREFOR. ROBERT F. METCALFE, Brooklyn, N. Y., assignor to Socony Burner Corporation, Brooklyn, N. Y., a Corporation of Delaware. Filed Nov. 3, 1925. Serial No. 66,464. 13 Claims. (Cl. 158—28.)



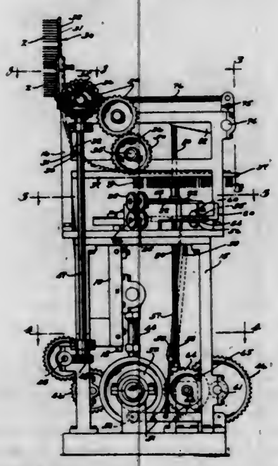
4. In a liquid fuel heating system, the combination with a burner, of means for supplying fuel thereto comprising a constant level supply chamber, a fuel admission valve, a float so related to the valve as to close the same when the fuel rises but permitting the valve to open when the levers lowers, means tending to open the valve when the fuel level lowers, a thermostat responsive to the operation of the burner and means actuated through the thermostat to close the valve irrespective of the float.

1,780,358. FRICTION SHOCK-ABSORBING MECHANISM. WILLIAM H. MINER, Chazy, N. Y., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Apr. 15, 1929. Serial No. 355,082. 5 Claims. (Cl. 213—32.)



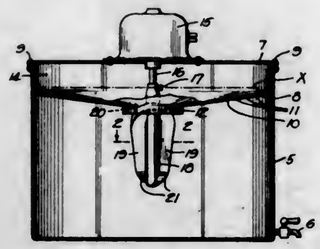
2. In a friction gear, the combination with a friction shell of substantially hexagonal transverse cross section, said shell having six interior flat friction faces converging inwardly of the shell and symmetrically arranged with respect to the longitudinal axis of the shell, the adjacent longitudinal edges of each adjacent pair of said flat faces merging with an appreciably curved face to permit proper seating of and minimization of abrasion by cooperable friction shoes slidable thereon, whereby three friction surfaces symmetrically arranged with respect to the axis are provided, each comprising two adjacent flat faces with an intervening curved face with the longitudinal edges of adjacent friction surfaces separated by a curved face; a spring resistance; a friction shoe cooperable with each said friction surface, each shoe having two flat faces cooperable with the corresponding two flat faces of the shell friction surface and a curved face at the junction of the two shoe flat faces; and a centrally disposed wedge projecting outwardly of the shoes and having wedge engagement therewith, said wedge being adapted to directly receive the actuating pressure.

1,780,359. MATCH-MANUFACTURING MACHINE. SIMON NELSON, Duluth, Minn. Filed Dec. 18, 1929. Serial No. 414,907. 6 Claims. (Cl. 144—55.)



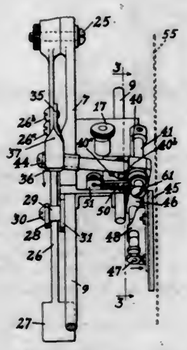
1. In a machine of the class described, a continuously moving splint-carrying belt comprising pivotally connected plates having transverse and longitudinal rows of holes, splint-forming knives and cooperating mechanism for inserting splints formed by the knives in said holes, and a feed device including a roll for moving the splint-forming material to the knives, driving mechanism for the feed roll including a ratchet wheel, a cooperating pawl, a driven cam, a yieldingly held arm operated by the cam, connections from the arm to the pawl and a wheel rotated in timed relation to the cam and having a member for intermittently holding the arm out of action of the cam to render the pawl inactive.

1,780,360. AGITATING, MIXING, AND CIRCULATING MACHINE. THOMAS O'FARRELL, Claremont, Calif., assignor to Russell C. Bloomfield, Los Angeles, Calif. Filed Nov. 26, 1929. Serial No. 409,900. 7 Claims. (Cl. 259—66.)



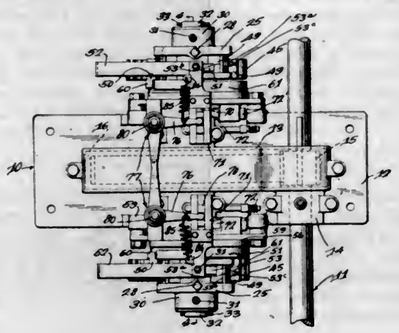
1. A machine of the class described comprising a liquid container having an air space, a tray underlying the air space and provided with a central opening, the tray having perforations positioned at a point laterally of the said opening, and means carried by the tray and co-acting with the opening and the said perforations for placing liquid in circulation in the container and for causing a quantity of the liquid to be deflected into the air space and thereby saturated with air and then drawn back into the container by way of said opening to be intermixed with the mass of liquid in said container.

1,780,361. BANJO MUTE. CHARLES W. PIERSON, CECIL Y. FITZGERALD, and GEORGE E. THOMAE, Los Angeles, Calif., assignors of one-fourth to Robert D. Pearson, Los Angeles, Calif. Filed June 6, 1929. Serial No. 368,795. 6 Claims. (Cl. 84—273.)



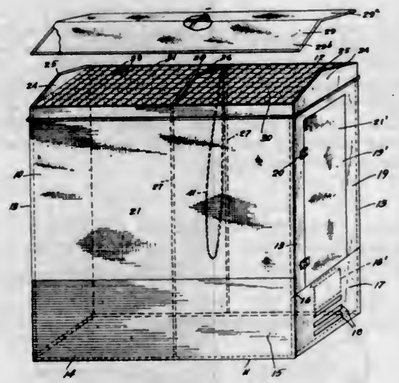
1. In a device of the character described, a frame, means to support said frame within a banjo in fixed relation thereto, a pendulum mounted on said frame, a movable mute mounted on said frame to swing at right angles to the plane in which said pendulum swings, means to transmit a swinging movement from said pendulum to said mute to bring said mute into contact with the membrane of the banjo, and means operable by a manual movement of the instrument to retract said mute from the position wherein it engages the membrane of the banjo.

1,780,362. LUMBER TRIMMER. SUMNER K. PRESCOTT, Seattle, Wash., assignor to Prescott Iron Works, Seattle, Wash., a Corporation of Washington. Filed Oct. 28, 1929. Serial No. 402,889. 8 Claims. (Cl. 143—41.)



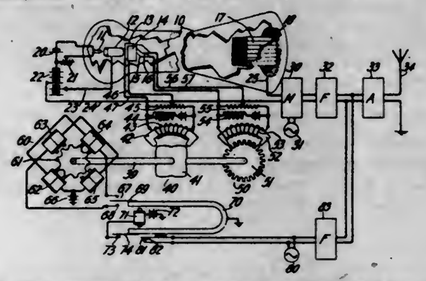
1. In a lumber trimmer having the usual saw frames, a double lift unit including a single counter shaft, two lifting arms, one at each end of the counter shaft, means cooperable with an intermediate portion of the counter shaft to rotate the same, means for controlling the connection of each lifting arm with the counter shaft, and connections between each lifting arm and a saw frame.

1,780,363. SUN-BATH APPARATUS. GEORGE A. PROCTOR, Los Angeles, Calif. Filed Dec. 27, 1928. Serial No. 328,681. 5 Claims. (Cl. 174—177.)



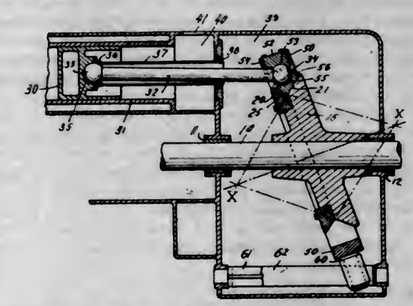
1. In a housing for sun baths, comprising screened side and end faces, a top grid carried by the housing embodying closely spaced fixed strips and closely spaced strips pivotally supported in the housing and perpendicular to said fixed strips, a bar carried by the housing, and manually controlled means within the housing for actuating said bar to adjust said pivoted strips in alignment with the sun's rays.

1,780,364. ELECTROOPTICAL TRANSMISSION. FREDERICK W. REYNOLDS, Grantwood, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 4, 1926. Serial No. 152,656. 15 Claims. (Cl. 178—6.)



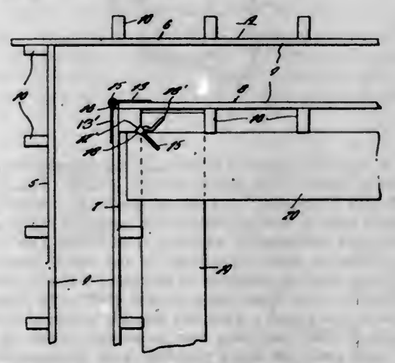
1. The method of scanning an image for television purposes which comprises simultaneously producing a plurality of discrete space charges of photo-electrons corresponding respectively to the elementary areas of said image, and causing said space charges to successively vary the impedance to a space current.

1,780,365. CRANKLESS ENGINE. THOMAS L. SHERMAN, Melbourne, Australia, assignor to Michell-Crankless Engines Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 31, 1929. Serial No. 403,842. 17 Claims. (Cl. 74—14.)



1. In combination, a swash plate, a ring surrounding the plate, a reciprocatable element, and means connecting said element to said plate and said ring to said plate.

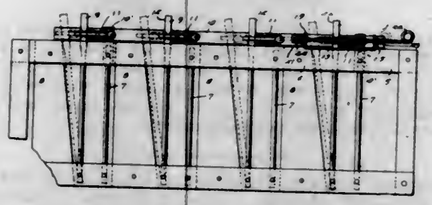
1,780,366. WALL FORM. CHARLES M. SHOWERS, Madison, Wis. Filed June 24, 1929. Serial No. 373,255. 4 Claims. (Cl. 144—293.)



1. In a corner construction for concrete forms, an elongated angle bar having the flanges thereof adapted to be

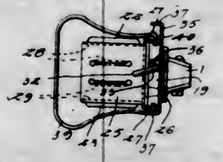
disposed in overlying relation with respect to the inner faces of the adjacent ends of the inner side and end walls of the form respectively, an elongated post squared in cross section having certain faces thereof disposed against the outer faces of the said adjacent ends of the said walls, bolts passing through said angle bar at the connecting end of its flanges, and said bolts being further adapted to extend through said post and to extend beyond said post at one corner thereof, and clamping nuts threadedly engaged with the projecting ends of said bolts.

1,780,367. STANCHION LATCH AND OPERATING MEANS THEREFOR. LOUIE G. SIEBENMORGEN, Hiawatha, Kans. Filed Dec. 1, 1928. Serial No. 323,164. 1 Claim. (Cl. 119—148.)



The combination with a plurality of stanchions wherein each includes an upright swinging bar, of a reciprocable bar common to said swinging bars and extending transversely of the upper end of each, latch means on said reciprocable bar for detachably engaging each swinging bar for movement with the reciprocable bar, a supporting bracket mounted adjacent said reciprocable bar and having an aperture formed therethrough and further having lateral recesses opening into said aperture, a reciprocating latch bar extending through the aperture of said bracket and supported thereby, connecting means between the latch bar and the reciprocable bar, and studs carried by the latch bar designed to pass through said recesses to permit shifting of the latch bar and to engage against one face of the bracket when the latch bar is turned to prevent shifting thereof.

1,780,368. CHROMATIC PLAYING ATTACHMENT FOR HARMONICAS. WALTER E. SHAVER, Schenectady, N. Y. Filed May 25, 1929. Serial No. 366,037. 11 Claims. (Cl. 84—377.)



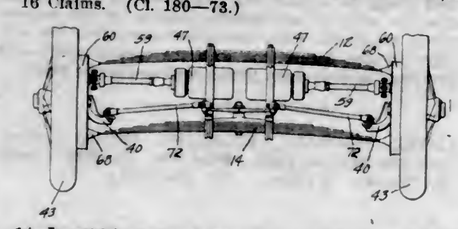
5. A chromatic playing attachment for harmonicas, comprising a mouth piece provided with orifices, a base provided with a plurality of rows of passages, a valve plate provided with a row of orifices and mounted between the mouth piece and base for adjustment to arrange its orifices in registration with the orifices in the mouth piece and one of the rows of passages in the base, a shaft rockably supported on the base and provided with arms engaging the valve plate, and a push rod slidably mounted between the mouth piece and base and connected to one of said rods, said push rod being provided with downwardly extending terminals and with a flange contacting with an end of the base.

1,780,369. METHOD OF DETERMINING DRIFT OF AIRCRAFT. CHESTER AMMEN SNOW, Jr., Washington, D. C. Filed Feb. 16, 1929. Serial No. 340,635. 3 Claims. (Cl. 250—11.)



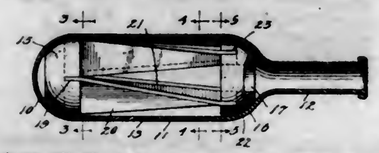
1. The method of determining the drift angle of an aircraft which includes the steps of delivering a radio broadcasting unit from the aircraft while in flight and thereafter picking up signals from said unit through a radio direction finder.

1,780,370. WHEEL ASSEMBLY. PERRY L. TENNEY, Muncie, Ind. Filed July 2, 1924. Serial No. 723,717. 16 Claims. (Cl. 180—73.)



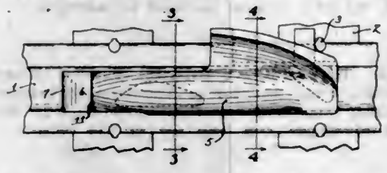
14. In vehicle running gear the combination of a wheel assembly including a fixed supporting ball, a leaf spring, a socket receiving the ball, a housing surrounding the socket and ball, means for clamping the housing to the spring including a clamping bar overlying the end of the spring, clamping bolts securing the housing to the ends of the bar, and means engaging the housing and bar beyond said load supporting and for rigidly holding the housing and spring in aligned relation.

1,780,371. PENCIL SHARPENER. WOJCIECH BENCZALSKI, Eureka, Calif. Filed Aug. 10, 1929. Serial No. 384,989. 5 Claims. (Cl. 120—93.)



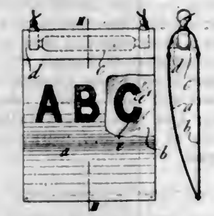
1. A pencil sharpener comprising a pair of blocks, a plurality of knives mounted by their edges in said blocks, one of said blocks having a central bore for inserting a pencil therethrough, said knives, at their inner sharp edges tapering toward said last mentioned block, the body portions of said knives remaining in an oblique position relative to the longitudinal axis of the sharpener.

1,780,372. DERAILING FROG. CHARLES BESS, Dunsmuir, Calif. Filed Nov. 29, 1929. Serial No. 410,344. 2 Claims. (Cl. 246—162.)



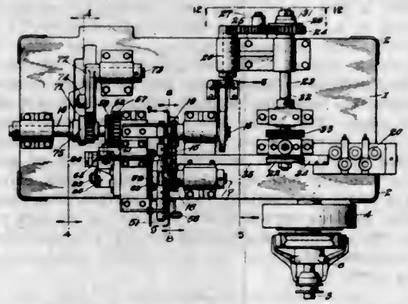
2. A derailing frog fashioned to rest upon the head of a rail and having legs to rest upon the rail base to prevent tipping, said frog having at its forward end a projecting flat toe-plate to receive the entering wheel and prevent the frog from slipping, and said frog having a rising tread surface to lift the wheel and a groove to receive the wheel flange, said tread surface and said groove merging into substantially the same horizontal plane, and a derailing flange converging to and cross the tread surface to sidle the wheel therefrom.

1,780,373. ILLUMINATING DEVICE. ALFRED WILLIAM BEUTTELL, Norbury, England. Filed Feb. 15, 1928, Serial No. 254,472, and in Great Britain Feb. 15, 1927. 13 Claims. (Cl. 40—132.)



1. A device of the class described comprising a curved transparent reflector so curved and adapted to be arranged relatively to an object to be illuminated and which is to be viewed through the reflector as to permit of the entry of light rays between the said curved reflector and the object and to increase the illumination of the ulterior portion of the object by reflection from the curved portion of said reflector.

1,780,374. WIREWORKING MACHINE. WILLIAM M. BIRCH, Crawfordsville, Ind., assignor to Mid-States Steel & Wire Co., Crawfordsville, Ind., a Corporation of Indiana. Filed Mar. 28, 1929. Serial No. 350,645. 15 Claims. (Cl. 140—71.)

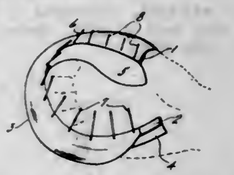


1. In a wire working machine, a looping means, means to feed a wire to said looping means, said looping means operative to shape the end of the wire into an elongated looped head having a pair of eyes, and means coacting with said looping means to assist in the formation of said head.

1,780,375. TREATING POROUS AND NONPOROUS MATERIALS. THEODORE F. BRADLEY, Westfield, N. J., assignor to American Cyanamid Company, New York, N. Y., a Corporation of Maine. Filed Nov. 25, 1929. Serial No. 409,766. 19 Claims. (Cl. 91—68.)

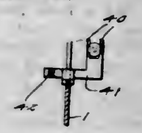
1. A process of treating a body which comprises applying to a surface of such body, a water solution of a water-soluble salt of a polybasic acid-polyhydric alcohol resin.

1,780,376. BERRY PICKER. HELENA E. CARR, Harrison, Mont. Filed Nov. 6, 1929. Serial No. 405,088. 2 Claims. (Cl. 56—330.)



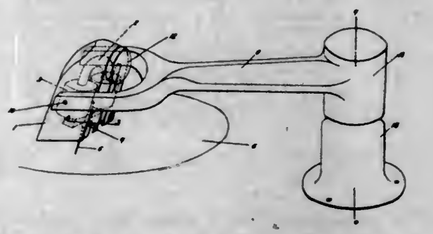
1. In a device of the kind described, a substantially U-shaped frame, an outer protecting flange secured to the frame and curved outwardly and downwardly therefrom, an inner flange extended downwardly from the frame and having an enlarged portion adjacent one end, and spaced upwardly and inwardly extended prongs secured to the frame.

1,780,377. TIMER FOR CREAM TESTERS. PAUL L. COOL and BUOL F. COOL, Council Bluffs, Iowa, assignors of fifty-two per cent to Howard McDaniel, Council Bluffs, Iowa. Filed Oct. 18, 1929. Serial No. 400,680. 10 Claims. (Cl. 200—33.)



5. A timing mechanism for cream testers having a rotating operating shaft comprising a ratchet wheel, means for controlling the operation of the tester, a cam member rotating in unison with the ratchet wheel, means operated by the cam after a predetermined period of rotation for actuating the tester control means, reciprocating arm members operating upon the ratchet wheel to give step by step movement thereto, means for connecting the arm members with the tester drive shaft to cause the arms to be actuated thereby, and means for reducing the speed of rotation of said ratchet wheel.

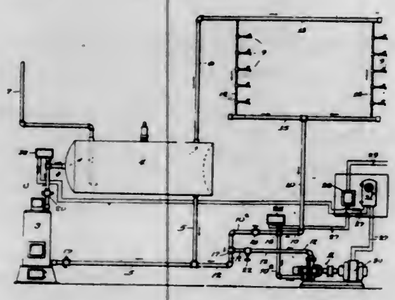
1,780,378. ELECTRIC PICK-UP FOR GRAMOPHONE OR OTHER SOUND RECORDS. JEAN DIEUX, Paris, France. Filed Mar. 1, 1929, Serial No. 343,776, and in France May 10, 1928. 2 Claims. (Cl. 179—100.41.)



2. In an electric pick-up, a supporting arm, a casing pivotally carried by said arm, a generator of electric

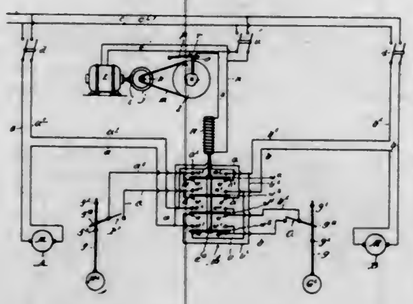
oscillations, such as an electromagnet, mounted in said casing, a vibrating member also mounted in said casing, and movable relative to said electromagnet, the movable assembly of said vibrating member, said electromagnet and said casing being traversed by the pivotal axis of suspension on said arm and being partially balanced with respect to said axis by its construction, and a counterweight carried by said casing and completing the balance, thus insuring a perfect balance of said movable assembly without a material increase of the mass of said assembly.

1,780,379. AUTOMATICALLY-CONTROLLED WATER-CIRCULATING SYSTEM. AUGUSTUS C. DURDIN, JR., Chicago, Ill. Filed Sept. 6, 1927. Serial No. 217,552. 3 Claims. (Cl. 126—362.)



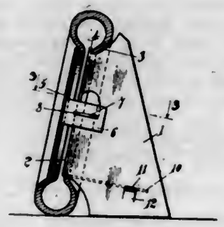
1. An automatically controlled fluid circulating system comprising in combination a source of fluid supply, a fluid supply pipe and a fluid return pipe connected therewith, there being fluid outlets connected to said supply pipe, an electric motor operated fluid circulating pump for circulating liquid towards the source only, said return pipe having a direct passage past the pump and the pump having branch pipes connecting its intake and discharge sides with said return pipe, a check valve in said return pipe between its connections with said branch pipes, and a thermostat connected to said return pipe and operated by changes of temperature of the fluid therein, said thermostat being electrically connected with the motor of said pump and operating to start and stop the same.

1,780,380. AUTOMATIC CONTROL SYSTEM FOR ELECTRIC MOTORS. AUGUSTUS C. DURDIN, JR., Chicago, Ill. Filed Dec. 31, 1927. Serial No. 243,815. 19 Claims. (Cl. 172—239.)



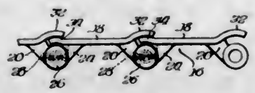
3. In an automatic control system for a plurality of electric motors, the combination of several electric circuits, including an electric motor in each circuit, an automatically operated switch for said circuits, a double throw-switch interposed in said circuits between said automatically operated switch and the motors, and switch actuating mechanism for said double throw switch having a switch throwing element operated at intervals.

1,780,381. TIRE-DISPLAY STAND. ELWOOD DYMENT, Lakewood, Ohio, assignor to The Dyment Company, Cleveland, Ohio, a Corporation. Filed Dec. 6, 1928. Serial No. 324,206. 3 Claims. (Cl. 211—24.)



1. In combination an easel having means at its upper end to engage within the upper part of an annular object and comprising sheet material bent to form a front and sides; a disk adapted to engage the outer side of said object to close the opening therein; flaps hingedly connected with the disk and turned back towards the sides of the easel; and lugs integral with and projecting from said sides of the easel, with which lugs said flaps are interlocked.

1,780,382. APRON-TYPE CONVEYER. FRANK A. FAHRENWALD, Chicago, Ill. Filed Oct. 11, 1928. Serial No. 311,805. 3 Claims. (Cl. 198—189.)

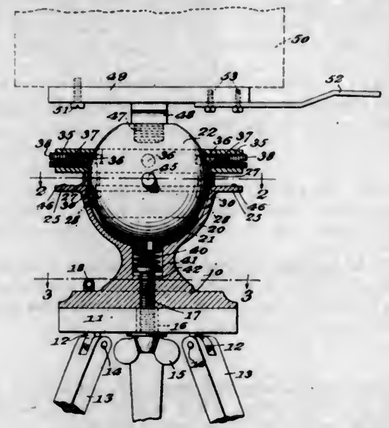


1. A conveyer comprising in combination a plurality of plates, a pair of separate arms integrally connected with each of said plates and extending downwardly and rearwardly from a central portion near one edge of one plate, a pair of arms integral with the adjoining plate and extending downwardly and forwardly from a central portion near the adjacent edge of the said adjoining plate, the latter arms being integrally connected by a barrel portion and fitting between the first mentioned arms; a pin extending through all of said arms to pivotally join said plates; each of said plates having a large, substantially flat top surface, and opposite edge portions curved about said pin as an axis to overlap the adjoining plates, and having a bottom surface unencumbered except by two remote pairs of depending arms.

1,780,383. CAMERA TRIPOD. IRVING I. GREEN, Brookline, Mass. Filed June 13, 1928. Serial No. 284,943. 4 Claims. (Cl. 248—47.)

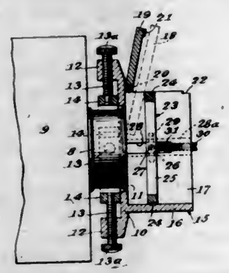
1. In a device of the class described, an instrument support having a spherical base providing a supporting bearing, a trunnion for mounting said support to turn

on a predetermined axis and located above said bearing, means for guiding the trunnion to move in a fixed plane



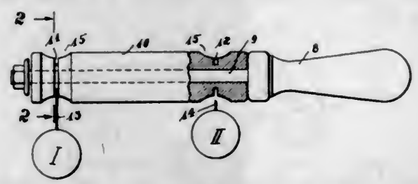
and a spring pressed device disposed above said trunnion and acting against said support under tension during the movement thereof.

1,780,384. FILTER HOLDER FOR CAMERAS. IRVING I GREEN, Brookline, Mass. Filed Oct. 4, 1928. Serial No. 310,311. 6 Claims. (Cl. 95—81.5.)



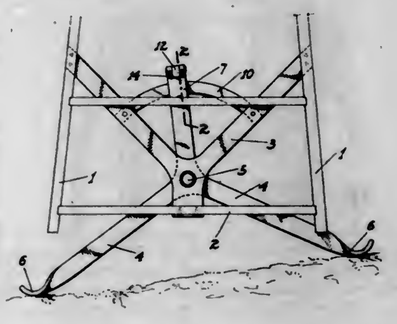
1. A device of the class described comprising a housing adapted to receive one or more filters and having an opening at one side for the insertion thereof into the housing, means for attaching the housing to a camera lens, and a spring actuated slide member movable toward and from the lens for clamping one or more filters in position in front of the lens.

1,780,385. TOY. REINHARD GUYOT, Los Angeles, Calif. Filed July 30, 1929. Serial No. 382,113. 4 Claims. (Cl. 46—14.)



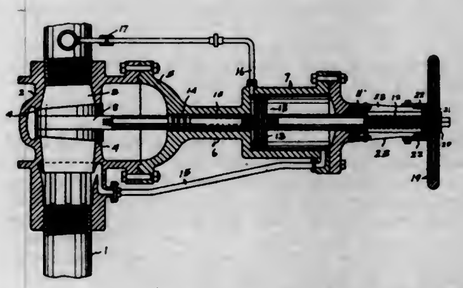
1. In a toy, a handle for manipulating the toy, and bodies operatively interconnected and in operative relation to the handle and disposed to transmit force one to another by a movement of the handle.

1,780,386. LEVELING ATTACHMENT FOR LADDERS. JOHN H. HARRISON, Stockton, Calif. Filed Sept. 14, 1929. Serial No. 392,681. 4 Claims. (Cl. 228—64.)



3. A ladder leveling device including an auxiliary leg unit extending across the ladder to a point below the bottom of the same, ground engaging feet at the outer lower ends of the leg unit, means pivotally supporting said unit on the ladder for oscillating movement in a plane parallel to the same, a quadrant fixed on the ladder concentric with the axis of oscillation of the leg unit, a plate fixed with the leg unit and disposed in concentric and cooperating relationship with the quadrant, said quadrant having a row of holes and the plate having a hole to register with the quadrant holes selectively, a pin movable radially of the quadrant and adapted to project through the plate hole and one of the quadrant holes simultaneously and a horizontal lever pivoted at one end in connection with the leg unit and from which the pin depends.

1,780,387. AUTOMATIC BLOW-OUT PREVENTER. PAUL BRYAN HART, Maracaibo, Venezuela. Filed Aug. 12, 1927. Serial No. 212,535. 3 Claims. (Cl. 137—139.)

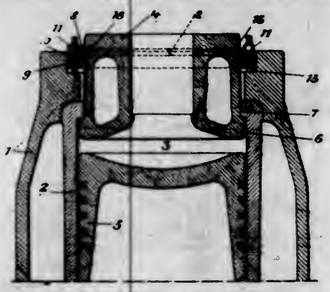


1. The combination with a pipe, of a valve adapted to open and close the passageway through said pipe, a cylinder, means in the cylinder connected to the valve and separating the cylinder into two chambers, a fluid pressure line entering one of said chambers and a relief outlet leading from the other chamber, said outlet line being normally blocked, and being arranged to be readily disrupted by an external force.

1,780,388. ENGINE CYLINDER. WILHELM HEFTI, Wulflingen, Switzerland, assignor to The Firm Sulzer Freres Societe Anonyme, Winterthur, Switzerland. Filed Sept. 4, 1929, Serial No. 390,278, and in Switzerland Dec. 4, 1928. 5 Claims. (Cl. 123—173.)

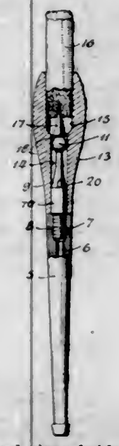
1. A working cylinder for internal combustion engines, comprising in combination a removable cylinder cover,

introduced from inside the cylinder, a suitable projection formed in a separate liner, and an annular and adjustable member arranged in a recess of the cylinder wall,



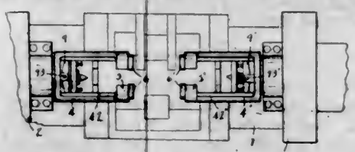
the adjustment of which annular member in axial direction will force the liner against the wall of the cylinder, thereby firmly securing the cover in its position.

1,780,389. CIGARETTE AND CIGAR HOLDER. RUDOLPH HIRSCH, North Bergen, N. J., assignor to Reiss Premier Pipe Co., Inc., Union City, N. J., a Corporation of New Jersey. Filed Dec. 29, 1928. Serial No. 329,200. 4 Claims. (Cl. 131—10.)



1. In a cigarette and cigar holder, a bit, a holder section, a stem on said bit slidably and removably mounted in said holder section, said stem having spaced supporting portions with which said holder section contacts, said portions having smoke apertures therethrough, and means on said stem adapted to penetrate the end of a cigar or cigarette in said holder section, said means being adapted upon removal from said holder to extract a cigar or cigarette from said holder.

1,780,390. LATHE AND LATHE CHUCK. GEORGE F. HOPKINS, Jackson, Mich.; William K. Sagendorph executor of said George F. Hopkins, deceased. Filed Aug. 17, 1927. Serial No. 213,554. 9 Claims. (Cl. 82—40.)

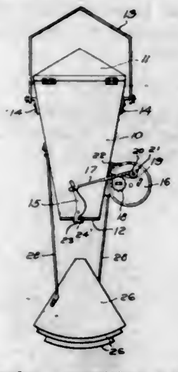


1. In a chuck structure, the combination of a hollow chuck body with front plate open at the side like a cradle, a cross wall with lathe center pin, chuck jaws adapted to out of round bodies in suitable ways on said front plate, bell cranks for actuating the same having squared ends and longitudinally slotted pivot connections, an equalizer bar, adjustable stops for the equalizer bar, pneumatic actuating connections pivotally connected to the center of said bar, and links connected to the ends of said equalizer bar disposed in suitable guides on opposite sides of said chuck body and connected to the chuck jaw bell cranks, coacting as specified.

1,780,391. BACKING FOR STENCIL SHEETS. SHINJIRO HONJI, Tokyo, Japan. Filed Feb. 21, 1928, Serial No. 256,061, and in Japan Jan. 23, 1928. 2 Claims. (Cl. 41—3.5.)

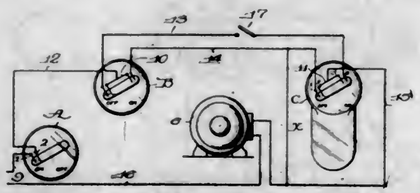
1. A backing sheet for a dry-process stencil sheet consisting of a firm stiff paper treated with a coating composition including a non-drying oil and a hardening material for the purposes described.

1,780,392. DRY POULTRY FEEDER. ANDREW S. JOHNSON, St. Paul, Minn. Filed Dec. 4, 1929. Serial No. 411,526. 3 Claims. (Cl. 119—156.)



1. A poultry feeder, comprising a hopper provided in its bottom with an outlet opening, means to cover and uncover the outlet opening, a plurality of conical deflectors supported beneath the outlet opening of the hopper and having openings at their apexes which are in substantial alinement with the outlet of the hopper, said conical deflectors being arranged in spaced superposed substantially concentric relation, the lower end of the lower conical deflector being of smaller diameter than the lower end of the next upper conical deflector, whereby the lower conical deflector will distribute the feed upon a smaller area than the upper conical deflector.

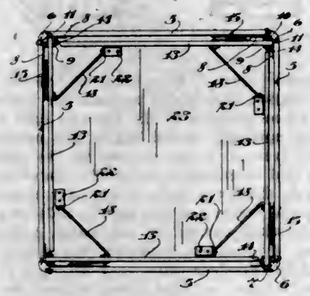
1,780,393. SYSTEM OF PRESSURE AND TEMPERATURE REGULATION FOR HEATERS. DAVID J. JONES, Chicago, Ill., assignor to Bell & Gossett Company, Chicago, Ill., a Corporation of Illinois. Filed May 24, 1929. Serial No. 365,700. 8 Claims. (Cl. 236—9.)



1. In combination a boiler having firing means therefor, a system of pressure, boiler water temperature and

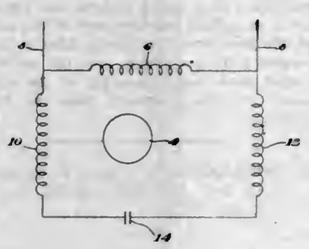
premises temperature control, comprising a circuit including in series the pressurestat, aquastat, thermostat and firing means, and a branch circuit paralleling said thermostat running from said aquastat to said firing means.

1,780,394. FOLDING TABLE. JOHN E. KALGREN, Minneapolis, Minn., assignor to The J. R. Clark Co., Minneapolis, Minn., a Corporation of Minnesota. Filed May 15, 1929. Serial No. 363,205. 3 Claims. (Cl. 45—11.)



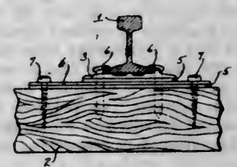
1. The combination with a table top having a marginal frame, of legs pivotally connected to said frame in the corners thereof, toggle-acting braces connecting said legs to sides of said frame adjacent which the respective legs lie when folded, and flexible braces connected at their outer ends to said legs and extending in planes at right angles to the corresponding toggle-acting braces, and independent anchor brackets directly secured to the board of the table top and completely spaced from the adjacent sides of said marginal frame, and to which anchor brackets the inner ends of said flexible brackets are pivoted out of line with the projected axis of the respective leg pivots, whereby said braces are subject to a tensional strain in the set-up position of the legs to securely brace the latter.

1,780,395. CONDENSER INDUCTION MOTOR. CARLTON L. KENNEDY, Braintree, Mass., assignor to The Holtzer-Cabot Electric Company, Roxbury, Mass., a Corporation of Massachusetts. Filed Nov. 28, 1928. Serial No. 322,461. 2 Claims. (Cl. 172—233.)



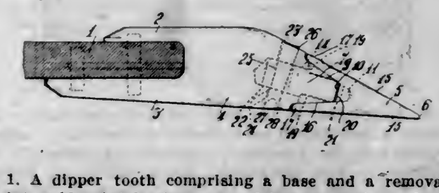
1. A condenser induction motor having, in combination, a line winding, a condenser circuit including a condenser and a pair of condenser windings, the line and condenser windings being wound in the same slots of the stator, the condenser windings and the condenser being connected all in series with the condenser between the condenser windings, whereby the voltage between the line and condenser windings is limited to a safe value.

1,780,396. MEANS FOR SUPPORTING RAILWAY RAILS UPON TIES. WALTER H. KIRKBRIDE, San Francisco, Calif. Filed Mar. 12, 1930. Serial No. 435,132. 4 Claims. (Cl. 238—283.)



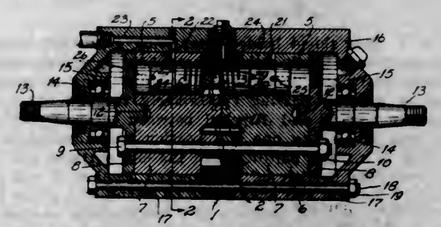
3. A means for mounting railway rails upon cross-ties comprising a tie-plate underlying the rail; a resilient pad adjacent to said plate, said pad having a plurality of intersecting ribs formed upon one surface; and means for securing said rail to the cross-tie.

1,780,397. DIPPER TOOTH. WALTER S. MCKEE and EUGENE C. BAUER, Chicago, Ill., assignors to Kensington Steel Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 29, 1928. Serial No. 302,668. 6 Claims. (Cl. 37—142.)



1. A dipper tooth comprising a base and a removable point, said point having top and bottom surfaces diverging from a forward cutting edge, the wedge shaped sides being recessed to form upper and lower diverging jaws connected by a central vertical web, there being side flanges connecting the forward ends of the jaws at each side of the point, and pockets projecting forwardly into the point between the web and side flanges, and a central tongue projecting rearwardly from the web, the base being formed with a tapered nose portion adapted to be received between the jaws of the point, the nose being bifurcated to receive the web, the front ends of the arms of the nose being externally recessed to engage the side flanges of the point and to provide inner projections that are received within the pockets of the point, there being a rearwardly extending central recess in the base to receive the tongue, there being mating transverse openings formed in the base and tongue, and a locking member received in said openings.

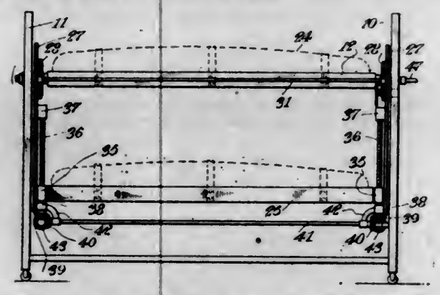
1,780,398. AIR COMPRESSOR. MATHEW B. MORGAN, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a Corporation of Ohio. Filed Aug. 24, 1929. Serial No. 388,048. 13 Claims. (Cl. 230—178.)



1. A pump comprising a casing having fluid distributing passageways therein and having a continuous cam rib

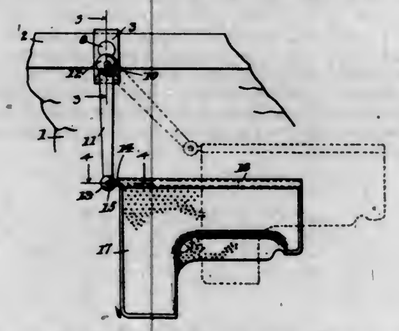
on the interior thereof, a cylindrical rotor rotatable in said casing and having a plurality of piston chambers arranged therein in alined pairs, and a reciprocatable piston member for each pair of chambers, each piston member having a circumferential groove at the middle thereof adapted to receive said cam rib and each piston member having a portion of reduced diameter in each end portion thereof and a passageway from said reduced portion through the end of said piston member, and the rotor having passageways openings into the respective piston chambers opposite the reduced portions of the piston members and arranged to communicate periodically with said first-mentioned passageways, respectively.

1,780,399. HOSPITAL BED. EDMUND L. MUNSON, Mount Kisco, N. Y. Filed Apr. 12, 1928. Serial No. 269,501. 8 Claims. (Cl. 5—61.)



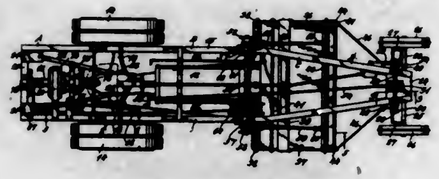
4. A structure of the kind described comprising a bed frame, a bed pivoted on trunnions in the frame, hangers mounted on the trunnions, a second bed carried by the hangers, a gear mechanism for swinging the hangers and their bed to carry the latter above or below the pivoted bed, and means for adjusting the swinging bed up and down on its hangers.

1,780,400. GLARE-SHIELD HOLDER. OTTO S. NELSON, Mitchell, S. Dak., assignor to Face-a-Lite Manufacturing Company, Mitchell, S. Dak. Filed Nov. 9, 1927. Serial No. 232,064. 2 Claims. (Cl. 296—97.)



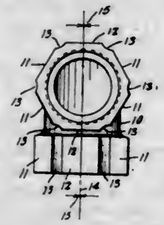
1. A glare shield holder comprising a bracket member formed from a single strip of metal bent to provide spaced intermediate and opposite end portions lying in parallel planes, a screw passing transversely through the intermediate portion and disposed between the end portions, an arm pivoted to one end portion and adapted to be swung in a plane parallel with the end portions and the intermediate portion of the bracket member, a rod pivoted to the arm and adapted to be swung in a plane parallel with the end portions and intermediate portion of the bracket, and a shield mounted for turning movement upon the rod and adapted to be swung transversely of the end portions and intermediate portion of the brackets.

1,780,401. POWER-OPERATED SCRAPER. HAROLD M. PURSEL, Casper, Wyo., assignor to Sharrock and Pursel, Casper, Wyo., a Copartnership consisting of W. G. Sharrock and Harold M. Pursel. Filed Dec. 23, 1929. Serial No. 415,928. 4 Claims. (Cl. 37—128.)



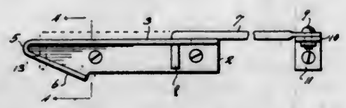
1. A power scraper employing a tractor having a winch, a friction clutch and a brake for controlling the winch, a frame secured to the tractor, said frame comprising two upwardly bowed beams, one secured to each side of the tractor, a bar secured to the under side of each beam and extending downwardly therefrom, a scraper pivoted to the lower ends of the bars, a shaft extending across the frame and having its ends rotatably supported in bearings carried by the beams, a drum secured to each end of the shaft, cables secured at one end to the drums and having their other ends attached to the front end of the scraper, a third drum secured to the shaft, and a cable having one end secured to the third drum and wound about the same, the other end of this cable being connected with the winch whereby when the cable is wound onto the winch it will be unwound from the drum on the shaft and rotate the latter whereby the front end of the scraper will be raised.

1,780,402. PIPE FITTING. JOSEPH A. RECKO, Bridgeport, Conn. Filed July 30, 1928. Serial No. 296,245. 1 Claim. (Cl. 285—203.)



As an article of manufacture, a pipe fitting having a flange provided with a series of flats and concave grooves, said grooves extending transversely of the flange and arranged at the junctions of adjacent flats in alternate relation throughout its periphery, and the curvature of the grooves being such that the angle of the edges between the flats and grooves is greater than the angle between adjacent flats.

1,780,403. DOOR HOLDER. FRANK W. RICHARDS, Nampa, Idaho. Filed Feb. 19, 1929. Serial No. 341,089. 2 Claims. (Cl. 292—272.)



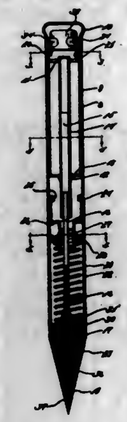
1. A door holding device, comprising a brace bar, means for pivotally securing one end thereof to a fixed structure adjacent a door, a longitudinally slotted plate designed to be secured transversely of the door, a tongue carried by said bar and slidably engaged in the slot of said plate and an apertured member at the end of the plate remote from the pivotal point of the bar arranged to have said tongue ride thereonto when the door is swung to full open position and to enter the aperture thereof.

1,780,404. WHEEL. LUTHER L. SCHOOLING, Quincy, Ill., assignor to Electric Wheel Company, Quincy, Ill., a Corporation of Illinois. Filed Dec. 9, 1927. Serial No. 238,821. 1 Claim. (Cl. 301—39.)



In a wheel including a main section and an auxiliary section constituting a lateral extension thereof, the adjacent sides of said sections being formed with interfitting projections and recesses, the different sets of coacting projections and recesses being located at substantially opposite points about the axis of the wheels, the projections and recesses of each set being formed with with inclined coacting surfaces adapted to effect relative angular and radial alinement of said sections, and bolt means to secure said sections in interfitting engagement, said sections having apertures formed therein to receive said bolts the diameters of said apertures in the planes of the adjacent faces of the sections being relatively greater than the diameters of said bolts to prevent slight relative displacement of the wheel sections from obstructing passage of said bolts through said apertures.

1,780,405. PENCIL. PERCY A. SHARROW, East Windsor, Ontario, Canada. Filed Dec. 16, 1929. Serial No. 414,306. 7 Claims. (Cl. 120—18.)



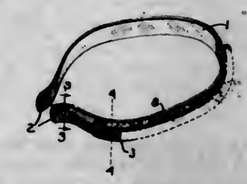
1. A pencil of the class described, comprising: a hollow body forming portion; a lead retainer slidably mounted in said body forming portion; a lead feeding member threaded into said retainer and movable in unison therewith; and resilient means for normally resisting movement of said retainer; and means for adjusting the tension of said resilient means.

1,780,406. RIB CLIP. ANTHONY G. SIEBENLIST, Milwaukee, Wis., assignor, by mesne assignments, to Milcor Steel Company, Milwaukee, Wis., a Corporation of Delaware. Filed Oct. 21, 1927. Serial No. 227,672. 3 Claims. (Cl. 72—118.)



1. A rib clip for securing metallic lathing to a structural supporting member comprising a strap adapted to be attached to the structural supporting member, and provided with a pair of spaced openings intermediate its ends, and a separate tie-wire of substantially U-shaped form having its legs extended through said openings, and its body portion engaged with the strap between the openings, the legs being adapted to be extended around the of the metallic lathing and to be intertwisted to secure the lathing on the strap.

1,780,407. INSECT REPELLER. WALTER E. SMITH, Daytona Beach, Fla. Filed Jan. 24, 1929. Serial No. 334,750. 3 Claims. (Cl. 299—24.)



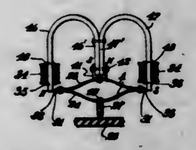
3. An insect repeller comprising a band adapted to be worn on the ankle, arm or other part of the body, a container secured to the band and extending longitudinally thereof and substantially encircling the band, and a pad of absorbent material within the container, which material is adapted to be saturated with an insect-repelling ingredient.

1,780,408. INSECT REPELLER. WALTER E. SMITH, Daytona Beach, Fla. Filed Jan. 31, 1929. Serial No. 336,467. 3 Claims. (Cl. 299—24.)



1. An insect repeller comprising a body portion having a peripheral flange, absorbent material containing insectifuge filling said body portion and overlying the flange, and a cap member overlying the absorbent material and secured to said flange, the absorbent material which overlies the flange spacing the cap member from the body member.

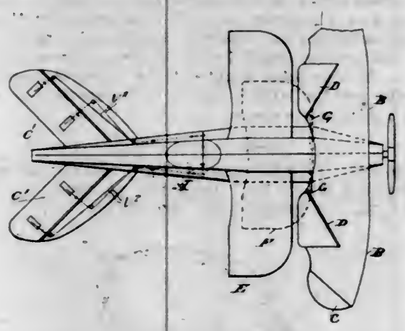
1,780,409. ELECTROMAGNETIC TRANSMITTER. ADOLPH A. THOMAS, New York, N. Y. Filed Feb. 10, 1928. Serial No. 253,240. 12 Claims. (Cl. 179—100.41.)



1. In an electric phonograph reproducer, a pair of oppositely bowed magnetic leaf springs connected at their

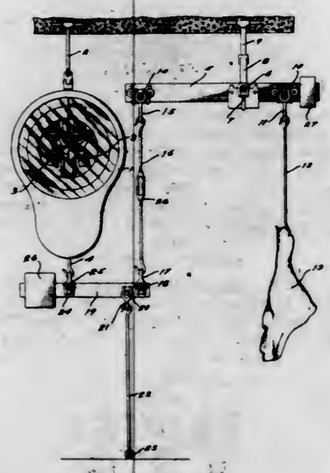
ends and constituting a closed flat loop, the distance between said ends being greater than the distance between the opposed central points of the leaf springs, means for supporting one of said bowed springs at the center, a stylus member connected to the central portion of the other bowed spring for vibrating both springs in their own plane, and electromagnetic means in operative relation to the ends of said leaf springs for converting the movements of said springs into electric impulses.

1,780,410. AEROPLANE. FRANK TUPTA, Cleveland, Ohio. Filed Nov. 14, 1927. Serial No. 233,218. 3 Claims. (Cl. 244—29.)



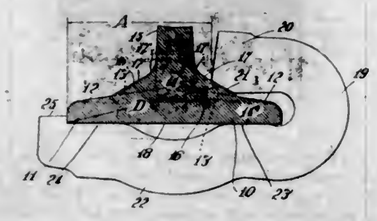
1. In an aeroplane, a fuselage, fixed wings and movable wings, said movable wings being transversely pivoted upon said fuselage to swing to a vertical angle thereon, a flexible retaining means attached to the rear of said fuselage, automatically acting means for moving said movable wings to the required vertical angle and manually operated means for releasing said retaining means when said desired vertical angle has been attained.

1,780,411. WEIGHING SCALE. EDWARD F. ULRICH, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Oct. 18, 1926. Serial No. 142,203. 2 Claims. (Cl. 265—49.)



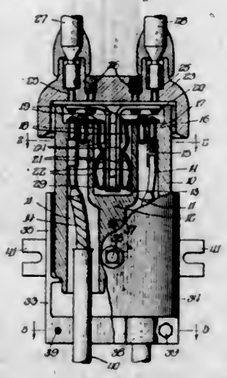
1. In a device of the class described, in combination, a hanging scale, said scale having a removable pan, lever mechanism adapted to be incorporated with said scale in substitution for said pan, said lever mechanism comprising a horizontal lever, means for connecting said horizontal lever to said scale at the point of connection for said pan and for connecting said lever to the floor, a second horizontal lever, means for connecting said second horizontal lever to the ceiling and to the first said lever, a commodity-receiver suspended from said second horizontal lever, and an adjustable balance weight on the first said horizontal lever.

1,780,412. RAIL ANCHOR. HAROLD G. WARR, Park Ridge, Ill., assignor to The P & M Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 18, 1929. Serial No. 333,502. 8 Claims. (Cl. 238—330.)



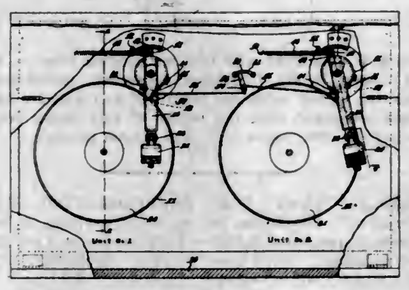
8. In combination with a railroad rail having a fillet forming an inclined plane in the angle between the upper marginal surface of the base and the vertical web of the rail, of a rail anchor comprising an under rail portion adapted to bear against a vertical face of a cross tie and having a bearing at opposite ends for engaging the bottom surface of the rail base adjacent opposite longitudinal edges thereof, a rail base engaging jaw portion at one end of the said under rail portion for embracing one base flange of the rail and which bears at its extremity upon said fillet, and a locking shoulder at the other end of the under rail portion adapted upon distortion of the anchor to snap into engagament with the lower corner portion of the base flange at the opposite side of the rail to lock the said jaw in its applied position.

1,780,413. COMBINATION POTHEAD AND SERIES CUT-OUT. PAUL F. WILLIAMS, Chicago, Ill., assignor to G. & W. Electric Specialty Co., Chicago, Ill., a Corporation of Illinois. Filed May 16, 1925. Serial No. 30,764. 8 Claims. (Cl. 200—2.)



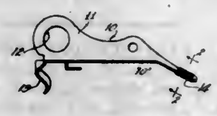
1. In a device of the class described, the combination of a pothead, confined yieldable contacts mounted therein, a removable top for said pothead, spaced contacts carried thereby which when electrically connected with said yieldable contacts separate the latter to complete a given circuit, said yieldable contacts springing into engagement with each other when said other contacts are withdrawn to form a circuit around said other circuit, said yieldable contacts being in the form of a loop to provide a pothead engaging portion to prevent fatigue of same and to insure their interengagement when said other contacts are withdrawn.

1,780,414. CONTINUOUS-SOUND-REPRODUCING APPARATUS. LLOYD J. ANDRES, Chicago, Ill., assignor of one-half to Elmer B. Rullman, Chicago, Ill. Filed Aug. 24, 1928. Serial No. 301,786. 14 Claims. (Cl. 179—100.4.)



1. An apparatus of the class described comprising, in combination, a plurality of phonograph record supports each adapted to carry a phonograph record; an amplification unit; a pick-up unit for each phonograph record electrically connected to said amplification unit; means for causing alternative engagement of said pick-up units with the respective records, and volume control means operatively connected to said alternative engagement means, substantially as described.

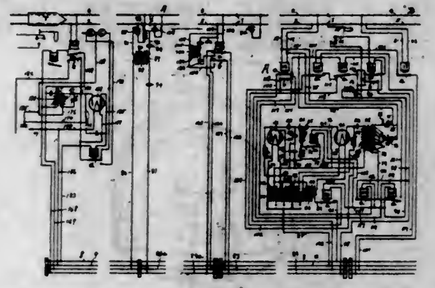
1,780,415. BREAKER MECHANISM. JOHN C. BAKER, Lake Bluff, Ill., assignor to Fansteel Products Company, Inc., North Chicago, Ill., a Corporation of New York. Filed Jan. 3, 1927. Serial No. 158,438. 2 Claims. (Cl. 200—166.)



1. In combination, a breaker arm provided with a centering depression, a contact point adapted to fit in said depression, and to extend slightly above the surface of the breaker arm, said contact point being welded both to the entire bottom of the depression and to the sides thereof, whereby a maximum welded area is obtained, the contact point is centered, and a minimum amount of space is required.

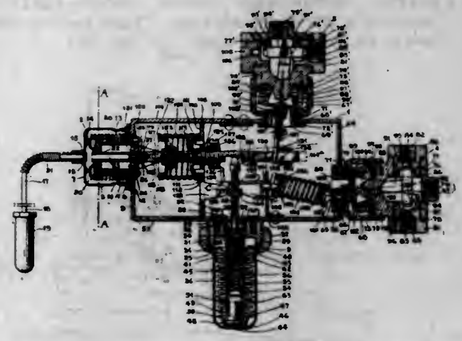
1,780,416. TRACK INSTALLATION TO CONTROL RAILWAY TRAINS. THOMAS E. CLARK and JAMES E. CLARK, Detroit, Mich., assignors to Continuous Train Control Corporation, Detroit, Mich., a Corporation of Michigan. Substitute for abandoned application Serial No. 192,839, filed May 20, 1927. This application filed Dec. 12, 1929. Serial No. 413,689. 11 Claims. (Cl. 246—34.)

1. In a track installation to control railway trains, the combination of a trackway divided into blocks each comprising a plurality of cut-sections, a current source and a track relay connected to each cut-section, a radio-frequency current generator for each block and comprising an output transformer embodying a secondary coil, connections between said secondary coil and the



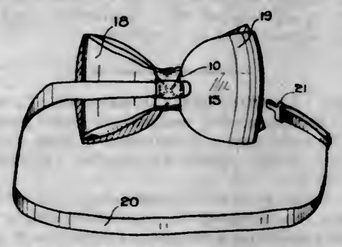
rails of the several cut-sections, a relay for each cut-section to close said connections thereto, a current source, and circuits between said current source and said last named relays which are closed when said track relays are deenergized.

1,780,417. CONTROL DEVICE. EARNEST J. DILLMAN, Detroit, Mich., assignor to American Radiator Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 1, 1927. Serial No. 236,969. 25 Claims. (Cl. 236—48.)



1. A control apparatus of the character described, comprising a control device, temperature responsive means for moving said control device to one position, a second temperature responsive means for moving said control device to another position, and means whereby operation of one of said temperature responsive means when acting to move said control device moves the other temperature responsive means from its actuative relation to said control device.

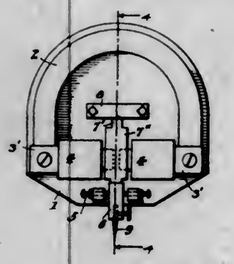
1,780,418. BOW TIE. GEORGE EDWARD FIGG, New York, N. Y. Filed Sept. 19, 1929. Serial No. 393,698. 1 Claim. (Cl. 2—154.)



In a bow tie, a frame having side loops and a central loop raised in relation to said side loops, a neck band

strung in said side loops and forming a retaining member and bow necktie made up over said central loop and held by said retaining member.

1,780,419. MAGNETIC REPRODUCER. PAUL E. FISCHLER, Bay City, Mich. Filed June 9, 1927. Serial No. 197,537. 7 Claims. (Cl. 179—100.41.)



1. An electric pick-up device comprising a plate, a permanent magnet mounted thereon, cores mounted upon the poles of the magnet, coils mounted upon the cores, a reed armature disposed between the coils and transversely of the cores, means for fixedly supporting the reed, said means being adapted to hold a needle.

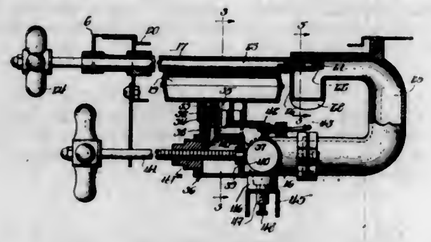
1,780,420. WIND AND WATER PROOF FIXTURE. RICHARD A. FLINT, Malad, Idaho. Filed Mar. 12, 1929. Serial No. 346,273. 2 Claims. (Cl. 20—65.)



1. In a wind and water excluder the combination of a groove cut along the bottom of a casement window; bearing brackets secured in said groove; an angle iron pivoted to said brackets; rubber strips secured on each leg of said angle iron; an angle iron secured on the foot of said window frame; lugs secured on the outside face of said angle iron; levers pivoted to said lugs adapted to be pushed or pulled to pivot said angle iron in said bearing brackets to bring the rubber strips to bear one on the last mentioned angle iron and the other on the outer edge of said groove; and plates secured on the inside of said window through which said levers are passed and on which said levers are engaged when locking the wind or water excluder substantially as described.

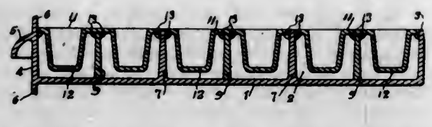
1,780,421. LIQUID-FUEL COOKSTOVE. LEON D. FORTIER, Kankakee, Ill., assignor to Sears Roebuck and Co., Chicago, Ill., a Corporation of New York. Filed Apr. 27, 1928. Serial No. 273,213. 5 Claims. (Cl. 158—61.)

1. A liquid fuel stove comprising, in combination, a generator tube adapted for connection with a source of fuel under pressure, a manifold, a burner head comprising a generator burner disposed beneath said tube, and a pair of cooking burners on opposite sides of the generator burner and disposed in substantially the same plane, a tubular member into which said generator tube is adapted to discharge connected with said manifold, a distributor beneath said head having a valve-controlled passage con-



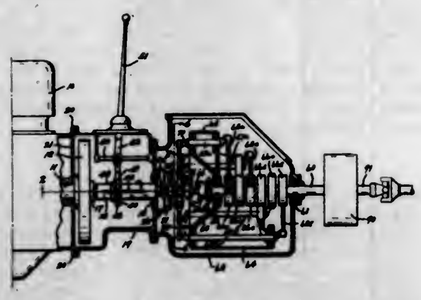
necting the manifold with the two cooking burners, a second passage in the distributor constantly connecting the generator burner with the manifold, and valve-controlled means connected with the source of fuel under pressure to discharge fuel vapor into said second passage.

1,780,422. TRAY FOR REFRIGERATING UNITS. FREDERICK C. GEILER, Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation, a Corporation of Delaware. Filed May 26, 1926. Serial No. 111,874. 6 Claims. (Cl. 62—111.)



1. An ice-making receptacle for domestic mechanical refrigerators comprising in combination, a thermally conducting container for liquid to be frozen, removable means for subdividing the container into a plurality of cells each adapted to freeze a block of ice suitable for table use, means for facilitating the removal of a number of said blocks without disturbing the remainder of said blocks, said last mentioned means comprising a thermally conducting fin dividing the blocks into groups said fin being permanently secured to the container in intimate thermal contact with the walls of the container.

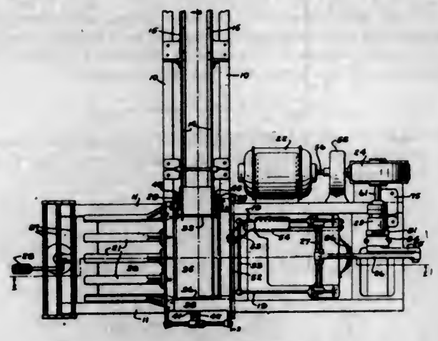
1,780,423. VARIABLE-SPEED POWER-TRANSMISSION UNIT. GEORGE E. A. HALLETT, Dayton, Ohio, assignor to General Motors Research Corporation, Dayton, Ohio, a Corporation of Delaware. Filed June 23, 1925. Serial No. 39,073. 1 Claim. (Cl. 74—53.)



In variable-speed transmissions for motor vehicles the combination of a drive shaft, a driven shaft in alignment with said drive shaft, an over-running clutch adapted to

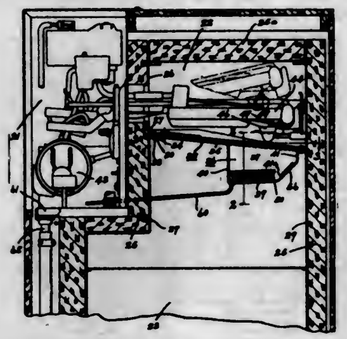
rotate the driven shaft, a journal on the drive shaft, linkage connecting said journal to the over-running clutch, means for adjusting said journal from a position concentric with the drive shaft axis to a position of predetermined maximum eccentricity, a clutch member on the driven shaft, and a co-acting clutch member concentric with said journal and adapted to be engaged with the clutch member on the driven shaft when said journal is concentric with the drive and driven shaft axes.

1,780,424. CAN-BOXING MACHINE. CHARLES MILTON HESSON and WILLIAM JOHN KOCH, Midland Park, N. J., assignors to The Fred H. Knapp Corporation, Ridgewood, N. J., a Corporation of New Jersey. Filed Mar. 7, 1927. Serial No. 173,421. 5 Claims. (Cl. 226—15.)



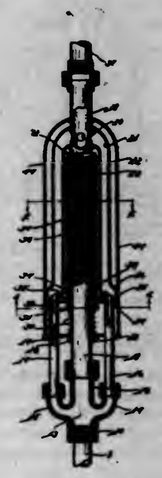
1. In a machine of the class described an inclined can feeding runway having a collecting space at the end thereof, means adjacent said collecting space for shifting cans longitudinally from said space into a receptacle, a displaceable abutment adapted to temporarily arrest the cans in said collecting space, an unyielding member extending the entire length of a can and adapted to be interposed between the cans on said runway and those in said collecting space, and means for simultaneously displacing said abutment and interposing said arm between said cans in timed relation to arrest the cans on the runway and positively advance the cans in said space a predetermined distance.

1,780,425. REFRIGERATING APPARATUS. HARRY B. HULL, Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation, a Corporation of Delaware. Filed Nov. 30, 1925, Serial No. 72,096. Renewed Dec. 13, 1928. 12 Claims. (Cl. 62—116.)



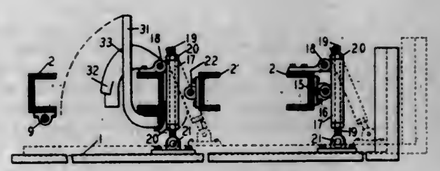
7. A refrigerating apparatus including a cabinet, a partition dividing the cabinet into a storage compartment and a cooling compartment, a container within the cooling compartment adapted to receive water to be frozen, means within said cooling compartment for freezing the water, means for removing the ice from the container, said partition having an opening arranged to permit air to flow from the freezing means directly to the cooling compartment, and having a pocket for receiving ice out of the path of air flowing thru the opening.

1,780,426. HOT-WATER HEATER. LOUIS B. HYDE, Detroit, Mich. Filed Apr. 8, 1929. Serial No. 353,526. 6 Claims. (Cl. 219—39.)



1. A hot water heater of the class described comprising: a plurality of casings mounted in embracing relation, said casings at one end being sealed to each other; a tube projected through said casings, the opposite ends of said casings being sealed on the periphery of said tube, said tube having openings formed adjacent one end between a pair of said casings; a delivery tube communicating with said central tube and the space between the two innermost casings.

1,780,427. TROWELING MACHINE FOR CONCRETE OR OTHER PLASTIC MATERIAL. JOSEPH E. KIAKHAM, Topeka, Kans. Filed June 22, 1928. Serial No. 287,476. 3 Claims. (Cl. 94—95.)



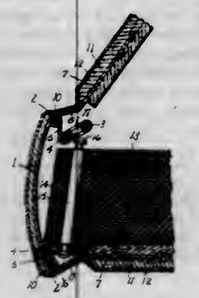
1. In a troweling machine for concrete and other plastic material, a machine of the kind described comprising a rectangular frame and wheels to carry the same, a plurality of longitudinal trowels each having an upward extension at its forward end, two rods threaded at their ends and pivotally connected to each trowel, sleeves hinged to the frame and arranged to accommodate the said rods, means to adjust and lock the rods to the sleeves and means to reciprocate the trowels.

1,780,428. **APPARATUS FOR THE REMOVAL OF OBSTRUCTIVE MATTER FROM OIL WELLS.** CHARLES LARSEN, Denver, Colo. Filed Sept. 6, 1927. Serial No. 217,792. 5 Claims. (Cl. 166—17.)



1. Apparatus for the removal of obstructive matter from an oil well comprising a source of fluid under pressure, tubing in the well, having interiorly, an annular seat, a pipe line in the tubing connected with the source and having adjacent its lower end, a shoulder upon the seat, a piston on the pipe line frictionally engaging the tubing above the seat, and a nozzle at the lower end of the tubing for the emission of fluid conducted thereto by the pipe line.

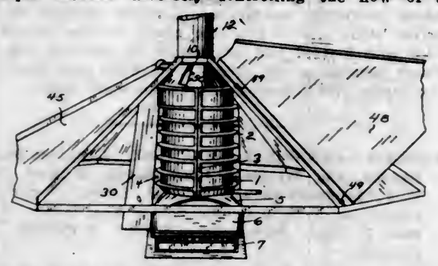
1,780,429. **TEMPORARY BINDER.** HARRY D. MANNING, Kalamazoo, Mich. Filed Aug. 27, 1928. Serial No. 302,185. 11 Claims. (Cl. 129—23.)



6. In a binder, the combination with a back having pivot knuckles in the edges thereof, of binding bars having outwardly and forwardly projecting pivot arms of substantial length provided with pivot knuckles alined with said pivot knuckles of said back, pintles coacting with the alined knuckles, and binding posts coacting with said binding bars.

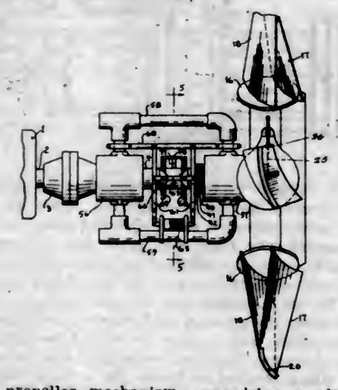
1,780,430. **BROODER STOVE.** GEORGE THOMAS MARKEY, Fort Atkinson, Wis., assignor to James Manufacturing Company, Fort Atkinson, Wis., a Corporation of Wisconsin. Filed Feb. 2, 1925. Serial No. 6,337. 20 Claims. (Cl. 119—32.)

1. A brooder stove having a canopy and provided in its upper portion with an outlet for the products of combustion extending through the canopy, a ventilating passage leading to said outlet upwardly along one side of the stove from the lower portion of the space underneath the canopy, a damper member controlling the flow of products of combustion to said outlet, a co-operating damper member inversely controlling the flow of air



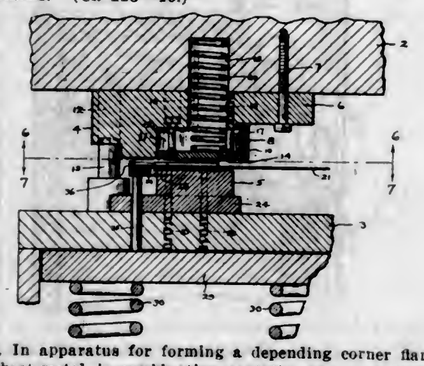
through said passage to the same outlet, and temperature controlled actuating connections for said damper members extending therefrom downwardly through the ventilating passage to the lower end portion thereof.

1,780,431. **AERO PROPELLER.** CHARLES MCCARROLL, Helena, Ala. Filed Oct. 8, 1925. Serial No: 61,320. 14 Claims. (Cl. 170—162.)



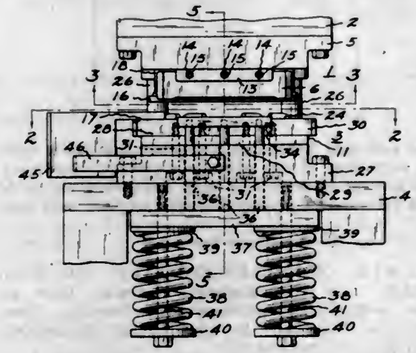
1. A propeller mechanism, comprising a plurality of impeller blades, a shaft on which said blades are rotatably mounted for change in pitch, and means independent of the blades and responsive to variation in the approach of fluid currents to the blades to maintain a condition of tangency between the blades and the approaching fluid currents.

1,780,432. **CORNER DIE.** JAMES A. MCGREGOR, Cleveland, Ohio. Filed Oct. 8, 1926. Serial No. 140,362. 5 Claims. (Cl. 113—46.)



1. In apparatus for forming a depending corner flange in sheet metal, in combination, a stationary punch shaped to conform to the interior surface to be formed in said sheet metal, a movable die adapted to cooperate with said punch to form said sheet metal to the desired shape and having a projecting portion to partially enclose a recess, said punch and die being shaped to form a corner flange in said sheet metal, a blank holder yieldingly mounted outwardly of said recessed portion and cooperable with said punch to form a bead adjacent the top portion of said flange, said blank holder and punch cooperating to hold the body of the sheet metal firmly in non-slipping fashion during the operation of the apparatus, a drawplate yieldingly mounted adjacent, but in spaced relation to, said punch and in alignment with said projecting portion, said drawplate being arranged to hold the corner portion of said sheet metal until said flange is substantially completely formed, and means moving said die toward said punch.

1,780,433. **DIE FOR FLANGING SHEET METAL.** JAMES A. MCGREGOR, Cleveland, Ohio. Filed Mar. 7, 1928. Serial No. 259,665. 13 Claims. (Cl. 113—49.)



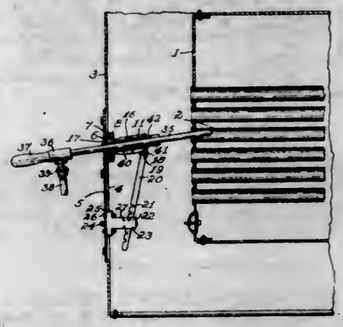
1. In sheet metal flanging apparatus, in combination, a die shoe, a die carried by said shoe shaped to conform to the exterior surface of a partially peripheral curved flange to be formed in sheet metal, a punch base, a punch carried by said punch base arranged to cooperate with said die, a pad arranged to cooperate with the face of said punch disposed in the recess of said die and yieldingly movable toward said die shoe, means opposing said yielding movement with relatively great force whereby slippage of the sheet metal gripped between said punch and pad may be substantially prevented, a blank holder associated with said punch base and yieldingly movable toward said shoe, said blank holder being spaced laterally from said punch, means opposing the yielding movement of said blank holder with less force than exerted against yielding movement of said pad, said blank holder being arranged to cooperate with the upper surface of said die to grip a portion of the periphery of the sheet metal therebetween.

1,780,434. **ELECTRIC SWITCH.** GEORGE J. MEUER, Milwaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a Corporation of Delaware. Filed Apr. 1, 1929. Serial No. 351,555. 13 Claims. (Cl. 173—335.)



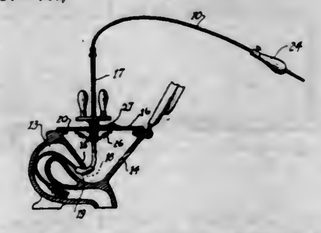
1. In an electric switch, in combination, a metallic frame plate, a flat punched sheet metal contactor of substantially U-shape, the arms of said contactor having end portions extending toward each other, said frame plate having openings the adjacent walls of which are spaced apart a distance greater than the distance between said end portions but less than the distance between said arms, whereby said contactor may be pivotally interlocked with said plate by laterally tilting the former with respect to the latter, an actuator slidably engaging said frame plate, and spring means interposed between said actuator and said contactor to effect snap movement of said contactor upon each movement of said actuator.

1,780,435. **FLUE CLEANER.** DON M. MILLER, Waterloo, Iowa, assignor to Boiler Equipment Company, Waterloo, Iowa, a Corporation of Iowa. Filed July 25, 1927. Serial No. 208,344. 9 Claims. (Cl. 122—390.)



1. A flue cleaner comprising a nozzle mounted for universal movement, an adjustable guide element for said nozzle, and a device for locking said guide element in any adjusted position, releasably, said device in any position relative to said element including yieldable resilient means for engaging and holding said element as adjusted.

1,780,436. **APPARATUS FOR CLEANING OUT CONDUITS AND THE LIKE.** JOHN C. MILLER, Chicago, Ill. Filed Oct. 13, 1928. Serial No. 312,312. 8 Claims. (Cl. 137—70.)

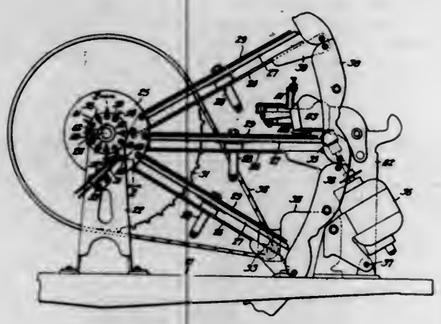


1. A flushing bowl cleaner comprising an elongated flexible coil adapted to pass into the water passageway of said bowl, a cleaning attachment fixed to one end of the coil, and supporting means for the coil, said means comprising a plate adapted to rest on the top of the open bowl, a tube slidably and tiltably passing through the plate, a hook on the lower end of the tube adapted to hook onto the bowl, and a nut threaded onto said tube above said plate.

1,780,437. **VOLUME-CONTROLLING DEVICE FOR AUTOMATIC PHONOGRAPHS OR THE LIKE.** BERT E. MILLS, Oak Park, Ill., assignor to Mills Novelty Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 10, 1928. Serial No. 324,973. 9 Claims. (Cl. 179—100.4.)

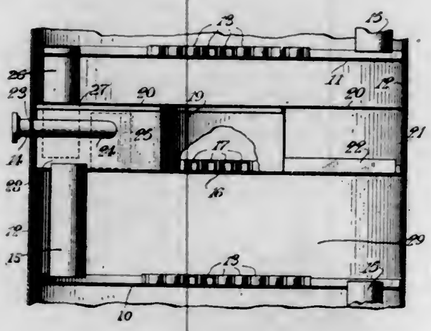
2. In an automatic phonograph, the combination of playing mechanism, means for presenting records suc-

cessively to a playing station, an electrical amplifier, a resistance element in circuit therewith, and devices for automatically including said resistance element in the amplifier circuit at predetermined stages in the cycle of



operations of the phonograph, to thereby control the tone volume in the playing of predetermined records, said devices including control members for each record adapted to be set in operative or inoperative position as may be indicated by the tone characteristics of the record.

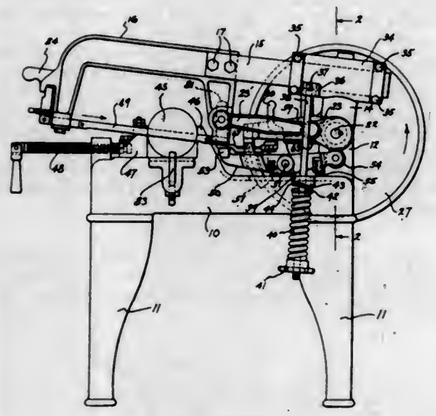
1,780,438. FLUID-MIXING DEVICE. WILLIAM A. PETERS, Jr., Seattle, Wash., assignor to E. B. Badger & Sons Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 16, 1929. Serial No. 355,486. 6 Claims. (Cl. 261—114.)



1. In a vapor and liquid contacting apparatus, a fluid mixing device comprising a fluid inlet means, a liquid inlet means, vapor and liquid contacting means, and a means inclosing said vapor and liquid contacting means and the discharge ends of said fluid inlet means, and said liquid inlet means.

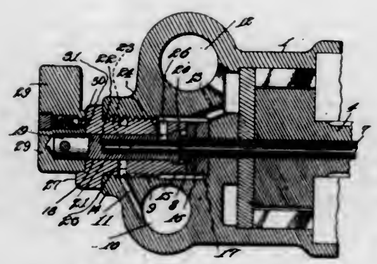
1,780,439. METAL-SAWING MACHINE. CHARLES RASMUSSEN, Racine, Wis., assignor of one-half to Ralph T. Ingalls, Racine, Wis. Filed Oct. 4, 1926. Serial No. 139,309. 3 Claims. (Cl. 29—73.)

1. In a metal sawing machine, a saw frame, means for supporting and imparting sawing movement to said frame, a plate supported for tilting movement, an actuating arm connected to said frame and movable upwardly to raise the latter and extending loosely through said plate, means operable upon completion of the cutting stroke of said frame to tilt said plate into interlocking relation with said arm and to impart upward movement to said plate, said last-named means being operable upon completion of the non-cutting stroke of said frame to cause reverse movement of said plate and to tilt the same out of such relation with said arm, and means co-



operable with said last-named means and said frame upon feeding movement of the latter to a predetermined position to prevent operation of said last-named means to tilt said plate out of interlocking relation with said arm.

1,780,440. HOLE-CLEANING VALVE FOR ROCK DRILLS. LED L. RICHARDSON, Cleveland, Ohio, assignor to The Cleveland Rock Drill Company, Cleveland, Ohio. Filed Aug. 21, 1928. Serial No. 301,067. 3 Claims. (Cl. 121—10.)



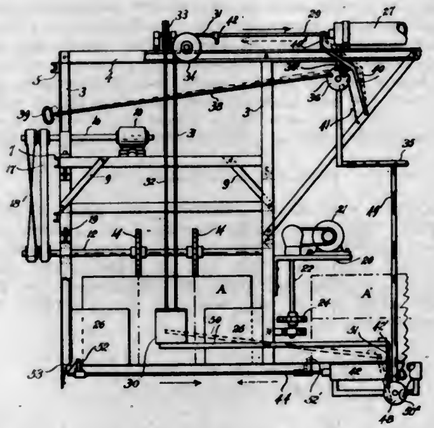
1. The combination with the back head of a drill having a chamber therein, of a plug fitted in the chamber, a stem rotatable in the plug and having a conduit therein, a fluid conducting tube communicating with the conduit, said back head having motive fluid and water passages therein, and means carried by the plug and stem for selectively conducting fluid from the respective passages to the tube, as and for the purpose set forth.

1,780,441. MEANS FOR SCORING ICE BLOCKS BY FLUID PRESSURE. ROBERT H. ROARK, Waco, Tex., assignor, by mesne assignments, to The General Ice Scoring Machine Company, Dallas, Tex., a Corporation of Delaware. Filed Nov. 25, 1927. Serial No. 235,512. 6 Claims. (Cl. 125—13.)

1. In an ice scoring machine having vertically movable scoring means adapted to score a block of ice during such

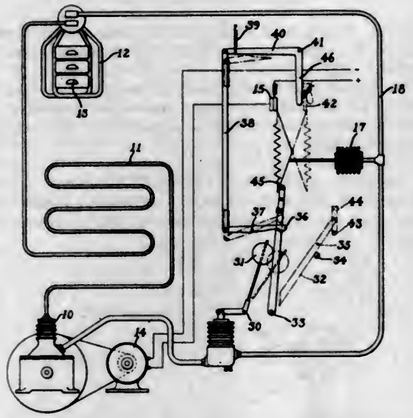
CARNEGIE LIBRARY OF ATLANTA

movement, fluid pressure means for effecting said vertical movement, and automatically operated means for cut-



ting off and releasing fluid pressure when the vertical movement in one direction is completed, whereby the scoring means may return to its initial position.

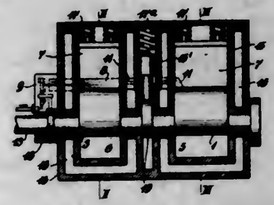
1,780,442. REFRIGERATING APPARATUS. WARREN H. F. SCHMIEDING, Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation, a Corporation of Delaware. Filed Sept. 30, 1927. Serial No. 223,045. 11 Claims. (Cl. 62—3.)



1. Refrigerating apparatus comprising in combination a refrigerating element, means for circulating refrigerant through the element, means responsive to the condition of the system for periodically operating circulating means, means adapted to restrict the flow of refrigerant, means for rendering said last mentioned means operative, and means for rendering said means inoperative after a predetermined operation of the circulating means.

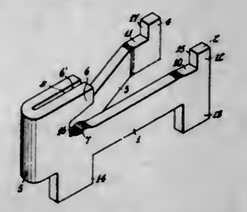
1,780,443. ROTARY INTERNAL-COMBUSTION ENGINE. OTTO W. SCHUMANN, Magdeburg, Germany. Filed May 25, 1928, Serial No. 280,627, and in Germany June 14, 1927. 5 Claims. (Cl. 123—14.)

1. A rotary internal combustion engine, comprising, in combination, a casing forming two chambers; a shaft traversing said chambers; two circular pistons affixed to said shaft in said chambers, one of them being larger than the other and serving to compress air, the other being adapted to be driven round in the appertaining chamber by the explosions; a passage provided in said casing and so located as to conduct the compressed air from the chamber enclosing said larger chamber to the



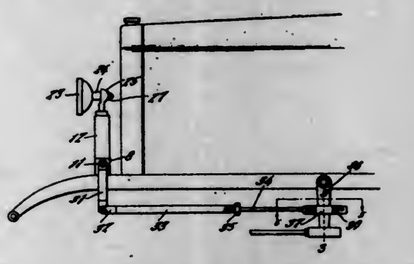
other chamber; a valve inserted into this passage; means for actuating said valve in correspondence with the revolutions of said two pistons; and a fuel nozzle terminating opposite the end of said compressed-air passage at the chamber enclosing the smaller piston, substantially as set forth.

1,780,444. RAIL ANCHOR. CHARLES B. SHEPHERD, Springfield, Mass., assignor, by mesne assignments, to The P & M Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 20, 1928. Serial No. 320,551. 9 Claims. (Cl. 238—330.)



1. A one-piece rail anchor comprising a pair of legs adapted to extend transversely across the bottom surface of a rail base, said legs being disposed at an angle to each other whereby each leg has one end in close proximity to the end of the other leg and the opposite end substantially spaced from the opposite end of the other leg, separate rail base flange-engaging means disposed on each of the spaced ends and adapted to be flexed one toward the other in applying the anchor to a rail, and rail flange-engaging means disposed at the opposite ends.

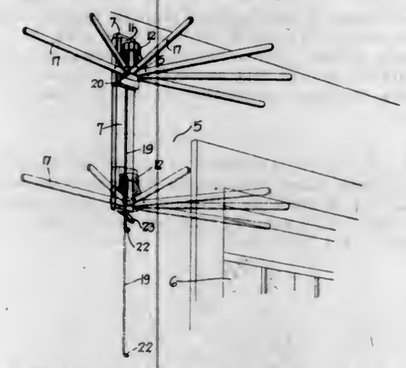
1,780,445. DIRIGIBLE HEADLIGHT. JOHN M. SHERWIG, Sharon, Pa. Filed Oct. 11, 1929. Serial No. 398,916. 4 Claims. (Cl. 240—62.)



1. A dirigible headlight apparatus of the class described comprising a bracket structure, a vertical shaft in the bracket structure, a horizontal shaft in the bracket structure, gearing operatively connecting the shafts, a headlight, means engaging the headlight with the verti-

cal shaft to swing upon the rotation thereof, a crank on said horizontal shaft, a link structure connected with said crank, a clamp for connecting the link structure with the steering arm of an automobile, said clamp comprising a pair of L-shaped members having their shorter legs overlapping an L-shaped bracket mounted on the overlapped legs and a bolt through the said legs and the bracket for securing the same together, and adapted to have their longer legs straddling the arm, and a bolt extending through the longer legs to draw them tightly about said arm, said link structure adapted to be attached to said L-shaped bracket.

1,780,446. DRYING DEVICE. JOSEPH A. SHOEMAKER, Bennington, Vt. Filed Feb. 14, 1929. Serial No. 339,829. 2 Claims. (Cl. 211—101.)



1. A device for use in drying, comprising a slide strip, a base slidable thereon, a semi-circular block secured to the base and having radial slots and a circumferential shoulder adjacent the lower ends of said slots, a U-shaped holding strip in the block passing through said slots, links pivoted to said holding strip, depending clothes holding arms pivoted to the links, said arms at the link ends being adapted for engagement with the shoulder to be supported horizontally, an operating rod depending from said base, and a yieldable rod holding member on the slide strip.

1,780,447. ROTARY CORE DRILL. JOHN ELGIN SHOWS, Harrisburg, and WILLIAM TRACY DUNN, Houston, Tex. Filed Nov. 2, 1927. Serial No. 230,500. 1 Claim. (Cl. 255—72.)



In a cutter, a head having a coreway therein, a collar slidable longitudinally therein, the said collar having longitudinally disposed recesses in its inner face, said recesses being relatively deep at their lower ends, a dog pivoted at its lower end in the deeper portion of each of said recesses, the bottom walls of said recesses inclining in an upward direction toward the axis of said collar to receive said dogs for a substantial part of their length and to maintain the same inclined toward the axis of said collar, and dogs of slightly greater length than their recesses so that their free ends project beyond the upper end of said collar, and a toe on each dog to engage with its respective bottom wall to limit the inward swinging movement of the dog.

1,780,448. METALLIC AIRSHIP OF THE RIGID TYPE. THOMAS B. SLATE, Glendale, Calif., assignor to Slate Aircraft Corporation, a Corporation of Nevada. Original application filed Apr. 28, 1926, Serial No. 105,279. Divided and this application filed Apr. 6, 1927, Serial No. 181,584. Renewed Mar. 24, 1930. 5 Claims. (Cl. 244—3.)

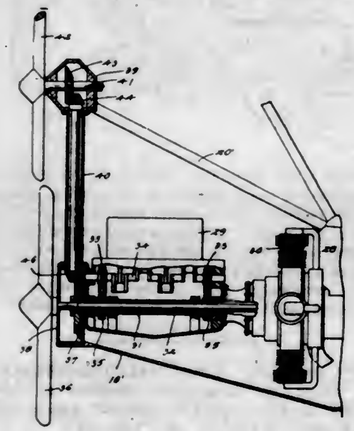


1. An airship of the lighter than air type having an all metal hull comprising gored strips of longitudinally corrugated metal, the corrugations being correspondingly tapered at each end, the strips having their edges lock-seamed and sealed together, and spacing members comprising strips of metal corrugated longitudinally of the strips and formed into rings whereby to space the corrugations of the longitudinal strips to make them rigid in their width.

1,780,449. HAIR WAVING. FOSTER DEE SNELL, Brooklyn, N. Y. Filed July 1, 1929. Serial No. 375,331. 5 Claims. (Cl. 132—36.2.)

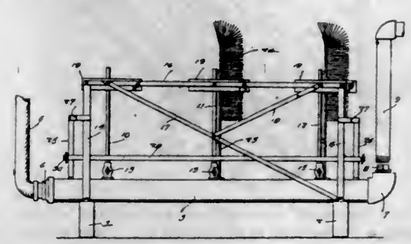
1. The process of waving hair which comprises wetting it with a solution of an alkaline carbonate, wrapping the hair on a curling rod, applying ammonia to the wrapped hair and heating.

1,780,450. AIRCRAFT MOTOR. STEPHEN JUNER VELTON, Houston, Tex. Filed Dec. 9, 1929. Serial No. 412,777. 1 Claim. (Cl. 244—25.)



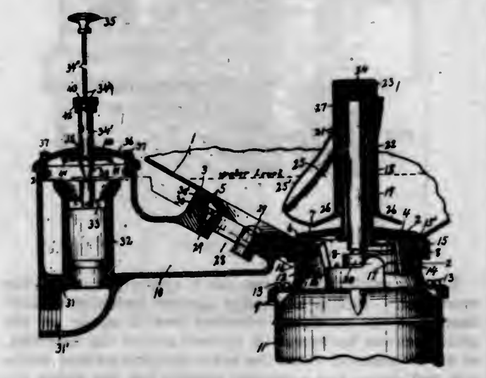
The combination with the fuselage of an airplane, of a frame mounted on and extending forwardly from said fuselage, tandem motors mounted in the frame, the shafts of the motors being telescopically arranged, a casing extending upwardly from and forming part of the casing of the foremost motor, a vertical shaft in the upwardly extending casing geared to said foremost motor, a horizontal shaft in the upper end of said last-named casing driven by said vertical shaft, a propeller on said horizontal shaft, and a propeller on the forward end of the shaft of the rearmost motor.

1,780,451. BOTTLE-CLEANING APPARATUS. ROBERT VOSIKA and LUDVIK VOSIKA, Wilber, Nebr. Filed Aug. 9, 1928. Serial No. 298,511. 2 Claims. (Cl. 15—59.)



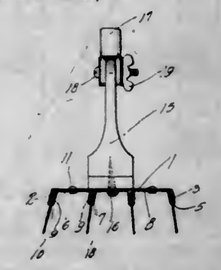
1. In a bottle cleaning apparatus of the character described, a pair of spaced supports, a horizontal water pipe extending across the spaced supports, a series of water discharge tubes extending upwardly from the pipe and having communication therewith, a valve associated with each of the tubes at the lower end thereof, a plurality of brush units, each arranged in close proximity to a water discharge tube for position within the interior of a bottle when the bottle is disposed in an inverted position over said discharge tube, a pair of uprights rising from said supports on one side of said water pipe, a horizontally disposed bar secured to the uprights, a plurality of split rings mounted on said horizontal bar, there being one split ring for each of said discharge tubes, said rings being arranged circumjacent their respective discharge tubes, means for securing the split rings in clamped relation about the bottles, a pair of elongated horizontally disposed strips arranged on opposite sides of said tubes, means for supporting said strips in a vertically adjustable position with respect to said tubes, said strips being adapted to support the necks of the bottles disposed over said tubes.

1,780,452. DISHWASHER. FORREST A. WALKER, Syracuse, N. Y., assignor to Walker Dishwasher Corporation, Syracuse, N. Y., a Corporation of New York. Filed July 27, 1927. Serial No. 208,665. 4 Claims. (Cl. 141—9.)



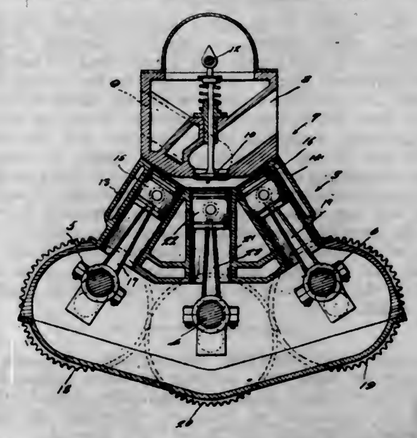
1. In a mechanical dishwasher, a vat, an apertured bushing extending through an opening in the bottom of the vat and provided with a flanged head engaging the inner face of said bottom, a drainage conduit communicating with an opening in the bottom of the vat and provided with an extension loosely surrounding the portion of the bushing adjacent the bottom of the vat, and a motor-supporting ring movably secured to the lower end of the bushing and clamping the conduit extension and bushing to the bottom of the vat.

1,780,453. CHOPPER. HANNAH WENALAN, Highland Park, Ill. Filed Mar. 26, 1928. Serial No. 264,855. 1 Claim. (Cl. 146—206.)



A chopper comprising a handle having a sheet of material disposed adjacent one end thereof, said sheet of material being provided with flanges, a plurality of substantially U-shaped members disposed adjacent one side of the sheet of material, a plurality of blades disposed between the sides of certain of the U-shaped members and between other sides of said U-shaped members and said flanges, and means for securing said sheet of material and the U-shaped members to said handle.

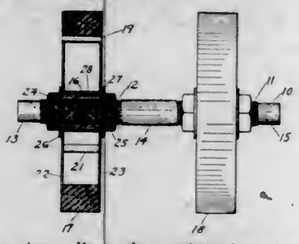
1,780,454. INTERNAL-COMBUSTION ENGINE. JAMES F. WHITE, Richmond, Calif., assignor of ten per cent to Earl W. Terry, Richmond, Calif., ten one-hundredths to E. W. Terry, Albany, Calif., and sixty one-hundredths to Fred Caudle, Richmond, Calif. Filed Dec. 3, 1928. Serial No. 323,479. 1 Claim. (Cl. 123—53.)



An internal combustion engine of the character described comprising a motor block having a single compression and combustion chamber, said block being further provided with intake and exhaust ports communicating with said chamber, a pair of inclined cylinders communicating at their upper ends with the chamber, a vertically disposed cylinder intermediate the inclined cylinders communicating at its upper end with the chamber, a crank shaft positioned below each cylinder in longitudinal alignment therewith, a piston mounted for reciprocation in each cylinder, connecting rods coupling said piston to the adjacent crank shaft, intermeshing gears fixed on each

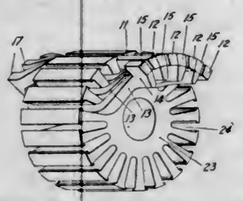
shaft for coupling said crank shafts together, a head mounted on the block having portions of its lower face disposed at right angle to each cylinder to provide a right angularly disposed abutment therefor.

1,780,455. FRICTION DEVICE. VINCENT G. APPLE, Dayton, Ohio. Filed June 14, 1928. Serial No. 285,352. 4 Claims. (Cl. 19—143.)



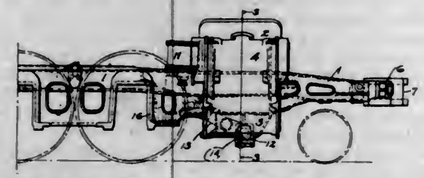
1. In pressing rollers, the combination of a shaft with portions of its diameter threaded, hubs with threaded inside and splined outside diameters disposed on said shaft, wheels with splined inside diameters surrounding said hubs and a common means to lock said wheels and hubs against rotative and axial shift on the shaft.

1,780,456. METHOD OF WINDING DYNAMO-ELECTRIC-MACHINE ELEMENTS. VINCENT G. APPLE, Dayton, Ohio. Filed Nov. 9, 1928. Serial No. 318,223. 4 Claims. (Cl. 171—206.)



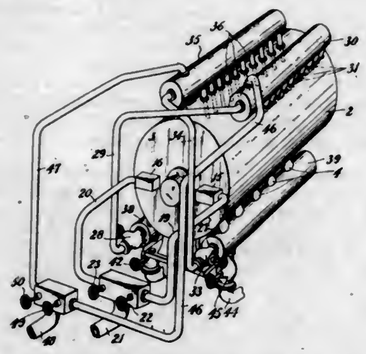
1. The method of winding a dynamo electric machine element, which consists of providing lengths of bar stock, dividing each length from a point near one end to a point relatively farther from the other end thence outwardly thru one edge to compose of each length one relatively short bar and another somewhat longer bar having an upwardly projecting lug at its free end, spreading apart the divided portions of each length to compose loops, assembling a plurality of the loops in the apertures of a core, displacing the ends of the shorter bars outwardly from the core axis, circumferentially displacing the upwardly extending lugs of the longer bars, replacing the ends of the shorter bars to positions circumferentially adjacent the upwardly extending lugs to form pairs, and binding the two parts of each pair together to complete the circuit.

1,780,457. LOCOMOTIVE STRUCTURE. WILLIAM O. ASHE, St. Louis, Mo., assignor, by mesne assignments, to General Steel Castings Corporation, Granite City, Ill., a Corporation of Delaware. Filed Mar. 16, 1928. Serial No. 262,127. 25 Claims. (Cl. 105—44.)



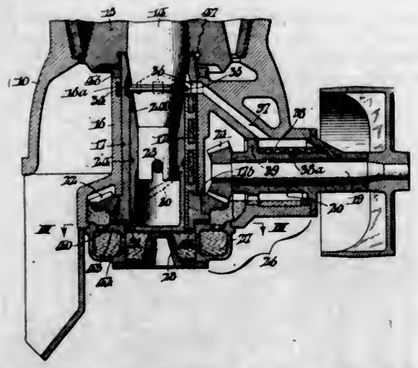
1. In a locomotive, a boiler saddle, and a brake cylinder mounted thereon.

1,780,458. REVERSIBLE STEAM TURBINE ENGINE. CLIFFORD BENNETT, Richmond, New South Wales, Australia. Filed July 12, 1928. Serial No. 292,229. 2 Claims. (Cl. 253—70.)



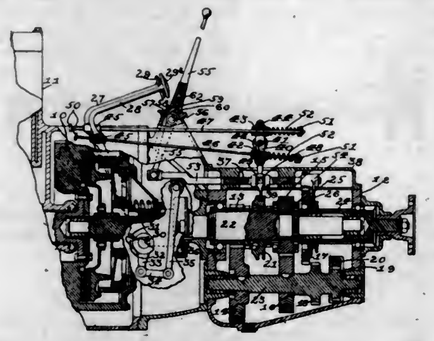
1. An improved reversible steam turbine engine comprising, a cylindrical casing divided to form a high pressure chamber and a series of steam expansion chambers, rotors arranged in said chambers mounted on a common shaft, two steam chambers having jets through which steam is directed to drive the rotor of the high pressure chamber in forward and reverse directions, respectively, means for supplying steam to either of said steam chambers, two inlet manifolds connected to the expansion chambers and having jets arranged to direct steam against the rotors therein to drive them in either direction, means for conducting the exhaust steam from the high pressure chamber to either of said inlet manifolds, and exhaust manifolds receiving the spent steam from the expansion chambers, and wherein the inlet manifolds have two pipes extending into each expansion chamber, said pipes being arranged at opposite sides of the rotors to direct the steam against vanes mounted on both sides of the rotors.

1,780,459. GYRATORY CRUSHER. RICHARD BERNHARD, Allentown, Pa., assignor to Traylor Engineering & Manufacturing Company, Allentown, Pa., a Corporation of Delaware. Filed Jan. 12, 1924. Serial No. 685,776. 4 Claims. (Cl. 308—168.)



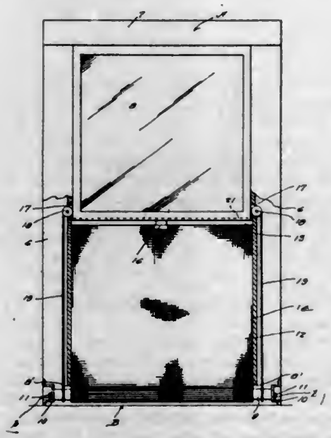
3. In a lubricating system for a gyratory crusher, the combination with a suspended upright gyratory crusher shaft and its revolving eccentric and a sleeve on the shaft forming an extension thereof within the eccentric, of an oil reservoir about the lower portions of said eccentric and sleeve and a bearing support for the sleeve upstanding from the bottom of said reservoir, and means at the co-operating bearing surfaces of eccentric and sleeve for picking up and elevating oil from said reservoir.

1,780,460. ENGINE-CLUTCH-CONTROL-ACTUATED SPEED-CHANGE MECHANISM FOR TRANSMISSION GEARING. EVERETT R. BURTNETT, Pasadena, Calif. Filed Dec. 17, 1929. Serial No. 414,655. 5 Claims. (Cl. 74—81.)



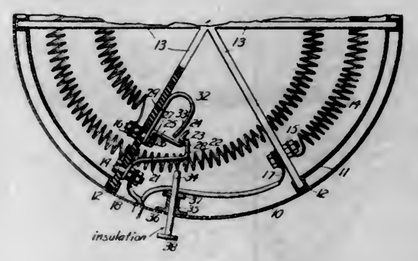
1. In a speed change actuating mechanism for transmission gearing, the combination with a prime mover clutch and a set of speed differentiating gear trains having change gear engagement elements, of a plurality of prime mover clutch throw-out levers provided with the said prime mover clutch, each adopted to commonly control the said clutch, and means including separate connecting linkage provided with each of the said prime mover clutch throw-out actuating movement respectively of the said plurality of clutch throw-out levers with the said change speed engagement elements of the said set of differentiating gear trains, each independently of the other for producing alternately a reverse motion to the said change gear engagement elements of the said speed differentiating set of gear trains, in response to the prime mover clutch throw-out actuating movement respective of each one of the said plurality of prime mover clutch throw-out levers, when the latter are separately employed to throw out the said prime mover clutch.

1,780,461. WINDOW SCREEN. GEORGE W. BYARS, Lexington, N. C. Filed July 5, 1929. Serial No. 376,186. 3 Claims. (Cl. 156—39.)



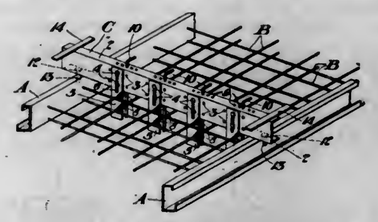
3. In combination, a roller, a flexible screen member windable on the roller, a pair of brackets, said brackets adapted to be secured to a support, each of said brackets including a vertically disposed portion having an elongated slot formed therein for respectively receiving the ends of the roller, springs engaging the ends of the roller and the brackets respectively normally urging the ends of the roller to one end of the slot, and a flexible member trained over said roller and secured at one end to the free end of the flexible screen member, a pulley over which the second mentioned flexible member is adapted to be trained, and means for rotatably mounting said pulley to the support remote from said bracket.

1,780,462. THERMOSTATIC CONTROL FOR ELECTRIC HEATERS. SAMUEL M. CARMEAN and JAMES H. CARMEAN, Kansas City, Mo. Filed Aug. 9, 1926. Serial No. 128,086. 4 Claims. (Cl. 200—138.)



1. A thermostatically controlled switch comprising a contact having an offset tip, a resilient contact normally tending to move toward open circuit position and having a free end provided with a hook for latching engagement with said tip to close a circuit through the contacts, and a thermostatic member having an arm movable against said hook for unlatching the hook from said tip.

1,780,463. CONCRETE REENFORCEMENT SUPPORT. PERRY T. COONS, Montclair, N. J., and GEORGE H. ROSE, Cleveland, Ohio, assignors to The American Steel and Wire Company of New Jersey, a Corporation of New Jersey. Filed Oct. 16, 1929. Serial No. 400,062. 2 Claims. (Cl. 94—39.)

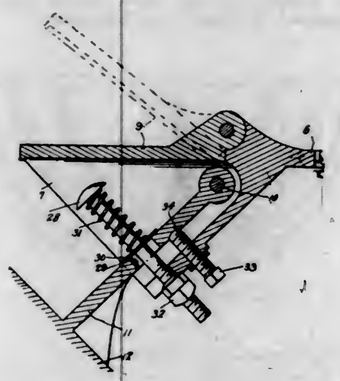


1. A concrete reenforcement support for supporting reenforcement in concrete roads and the like, comprising a supporting beam adapted to be bridged across the side forms of the road, and a plurality of depending vertical legs removably and adjustably mounted on said supporting beam, key pins for securing said legs on said beam, said pins extending through alined apertures in said legs and said beam and being slotted to receive wedge members for preventing displacement thereof.

1,780,464. WHEEL-FLANGE LUBRICATOR. JOHN W. COPPAGE, Franklin Park, Ill. Filed Sept. 5, 1928. Serial No. 304,036. 3 Claims. (Cl. 184—3.)

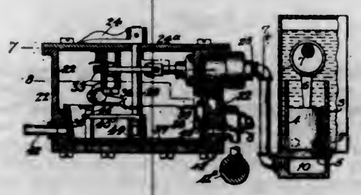
1. In a wheel flange lubricator, an arm adapted to be secured to the stationary member of a car frame adjacent

the wheels of a car, a housing formed integral with the arm at one end of the arm, the outer end of the housing being inclined and opened, an arm pivotally mounted within the housing and having its free end projecting through said opening, a stop member supported in one wall of the housing and adapted to be engaged by said arm to limit the movement of the arm in one direction, said arm being provided intermediate its ends with an opening, a bolt threaded in one wall of the housing and extending through the opening in said arm, a spring member disposed about the bolt, said spring impinging against the head of the bolt at one end of the spring and at its opposite end



impinging against said arm for normally urging the arm against said stop member, a lubricant container supported on the free end of said arm, a follower member adapted for sliding movement longitudinally of the container for urging the lubricant outwardly of the container for application of the lubricant to the flange of the car wheel, a lever pivotally mounted intermediate its ends within the casing, means operatively connecting one end of said lever with said follower member, spring means for normally urging the lever in one direction for actuating said follower to urge the lubricant exteriorly of its container.

1,780,465. OILING APPARATUS. PETER DOSCH, Stratford, Conn., assignor, by mesne assignments, to Alemite Corporation, Chicago, Ill., a Corporation of Delaware. Filed Nov. 21, 1919. Serial No. 339,692. 21 Claims. (Cl. 184—7.)



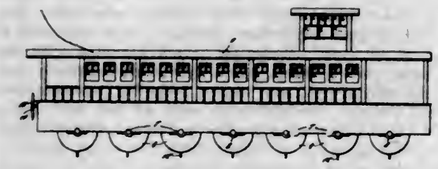
1. A lubricating system for the bearings of a machine, comprising a pipe leading to a bearing, a source of lubricant under variable pressure a valve to control the flow of lubricant from said source into said pipe, hand-operated means to open said valve, and means, operated by the pressure of the lubricant, to close said valve.

1,780,466. LOCOMOTIVE STRUCTURE. GEORGE FRED DRIEMEYER and EDWIN C. JACKSON, St. Louis, Mo., assignors, by mesne assignments, to General Steel Castings Corporation, Granite City, Ill., a Corporation of Delaware. Filed Sept. 14, 1928. Serial No. 306,008. 40 Claims. (Cl. 105—172.)



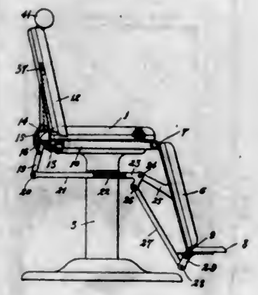
1. In a locomotive bed, side members having portions for carrying a steam cylinder casting, and an expansion plate connecting said portions.

1,780,467. BOAT. JOHN H. FREEZE, Cape Girardeau, Mo. Filed Dec. 9, 1929. Serial No. 412,780. 3 Claims. (Cl. 115—19.)



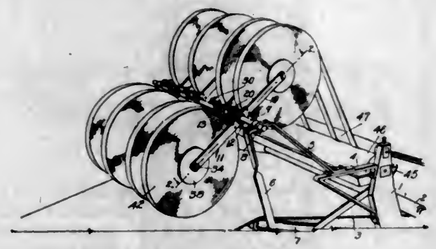
1. In a boat of the class described, a frame, a plurality of transverse shafts in the frame, a pair of drums on each shaft, sleeves journaled on the shafts and connecting the drums, worm gears on the sleeves, a longitudinal shaft, worm portions on the longitudinal shaft connecting with the worm gears, and means for rotating the longitudinal shaft.

1,780,468. DEFORMABLE CHAIR. MASA FUJITA, Sakai-Gun, Fukui, Japan. Filed Sept. 13, 1928. Serial No. 305,699. 11 Claims. (Cl. 155—27.)



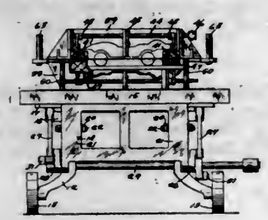
4. A chair, comprising a pedestal; a unit rotatably mounted on the pedestal and consisting of a seat, a leg support and a foot rest; a chair back having a separate rotatable mounting on the pedestal for rotation independently of and relatively to said seat unit; and means for operatively connecting said chair back and seat unit together to transmit the movement of either element to the other.

1,780,469. REVERSIBLE REEL FOR STRIP-APPLYING MACHINES. PAUL A. DINSMOOR, Lawrence, Kans., assignor to Lawrence Paper Manufacturing Company, Lawrence, Kans., a Copartnership composed of The M. G. Bowersock Trust, Irving Hill, Paul A. Dinsmoor, Hortense B. Hill, and Mary B. Dinsmoor. Original application filed May 12, 1926, Serial No. 108,556. Divided and this application filed Aug. 13, 1928. Serial No. 299,356. 6 Claims. (Cl. 242—64.)



3. Apparatus of the character described, comprising a shaft, an arm comprising a bushing adjustable on the shaft, a hub rotatable on the bushing, bars extending oppositely from the hub, means for anchoring the hub in either of two positions on the bushing, and means at the ends of the bars for rotatably supporting a reel.

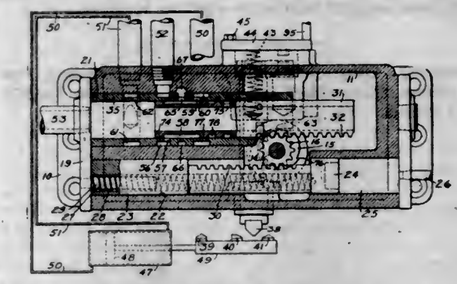
1,780,470. CORE-MOLDING MECHANISM. RAY E. DUNHAM, Berea, Ohio, assignor to The Dunham Company, Berea, Ohio, a Corporation of Ohio. Filed Jan. 28, 1929. Serial No. 335,445. 10 Claims. (Cl. 22—10.)



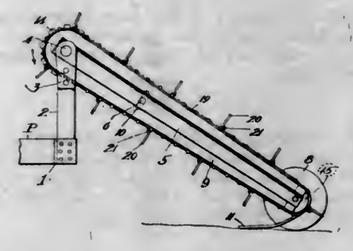
1. Core molding mechanism, comprising a frame; a table; means for effecting substantially vertical reciprocation of said table relative to said frame; a drag section and a cope section mounted respectively on said table and on said frame and movable relative to each other into and out of cooperating position; and means, becoming operable as said sections are moved out of cooperating position, for supporting the core independently of said drag section.

1,780,471. HYDRAULIC CONTROL VALVE UNIT. ROBERT M. GALLOWAY and ROBERT A. SCHAFER, Richmond, Ind., assignors to The National Automatic Tool Company, Richmond, Ind., a Corporation of Indiana. Filed July 20, 1928. Serial No. 294,138. 13 Claims. (Cl. 121—45.)

1. A completely enclosed leak proof valve and actuating mechanism comprising a casing, having a plurality of fluid conduits of unequal capacity connected therewith; a valve member slidable in said casing and adapted to control the fluid flow through said conduits; impositive means therein for urging said valve in one direction; fluid pressure means for moving said valve in the opposite direction against said impositive means; interference means for locking said valve in predetermined positions relative to said conduits; and means extending from said casing adapted to be actuated to release said interference means.

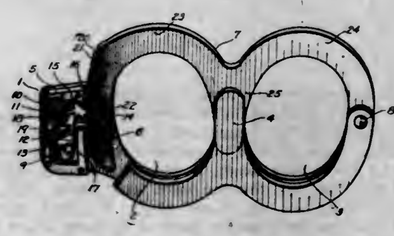


1,780,472. PICK-UP ATTACHMENT FOR COMBINES. GEORGE V. GILGER, Cimarron, Kans., assignor of one-half to Harvey B. Marcum, Newton, Kans. Filed Oct. 21, 1929. Serial No. 401,140. 5 Claims. (Cl. 56—364.)



1. A pick-up attachment, comprising a framework pivotally supported at its rear end, for up and down movement, and provided at its front end with ground-engaging devices, a series of downwardly and forwardly sloping swing arms pivotally supported at their rear ends for independent swinging movement in a vertical plane, ground-engaging shoes holding the front ends of the respective swing arms above the ground, a driven shaft journaled in the framework, wheels thereon, endless conveyors extending along the top and bottom of the swing arms respectively and engaging said wheels, and fingers on said conveyors for picking up grain from the ground and dumping it at the rear ends of said swing arms.

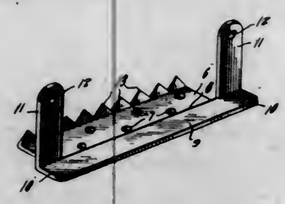
1,780,473. MANACLE. STELLA FRANCES GILL, Kansas City, Mo., assignor to Newton S. Hillyard, St. Joseph, Mo. Filed Dec. 9, 1929. Serial No. 412,805. 4 Claims. (Cl. 70—24.)



1. In a device of the character described, a body comprising spaced plates having arcuate portions forming

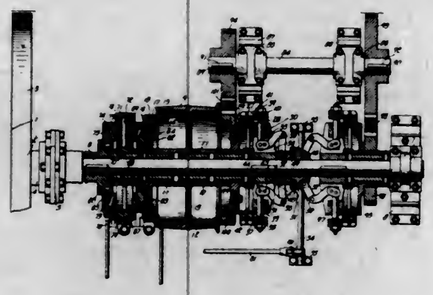
wrist-receiving seats and a rigid lever pivotally mounted on the body to swing between the plates and having clamping portions provided with arcuate faces cooperating with said seats to form wrist-receiving openings.

1,780,474. UPHOLSTERY DEVICE. FRED GLAZER, Dorchester, Mass. Filed Apr. 30, 1929. Serial No. 359,274. 5 Claims. (Cl. 155—179.)



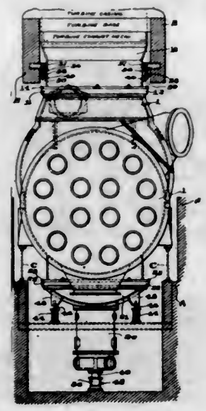
1. A retainer member of the class described comprising a flat bearing surface having vertical pointed projections at one edge and an offset parallel flat section at the opposite edge.

1,780,475. VARIABLE-SPEED TRANSMISSION. SAMUEL B. GOLD and BRUCE E. GOLD, Kansas City, Mo., assignors to Weber Engine Company, Kansas City, Mo., a Corporation of Iowa. Filed Oct. 20, 1928. Serial No. 313,755. 3 Claims. (Cl. 74—21.)



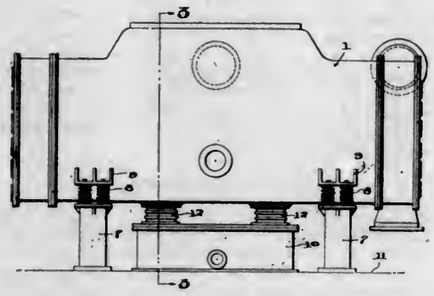
1. In a device of the class described, a power shaft, a pulley loosely mounted on the power shaft, clutch mechanism connecting the power shaft with the pulley to drive the pulley at the speed of the power shaft, a sprocket wheel loose on the power shaft, a counter shaft, a sprocket wheel fixed on the counter shaft and driven from the sprocket wheel on the power shaft, a second sprocket wheel fixed on the counter shaft, a sprocket wheel fixed on the pulley driven from the last named sprocket wheel, and a clutch for connecting the first named sprocket wheel to the power shaft.

1,780,476. STEAM CONDENSER. JOHN F. GRACE, Arlington, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Dec. 12, 1928. Serial No. 325,625. 33 Claims. (Cl. 257—43.)



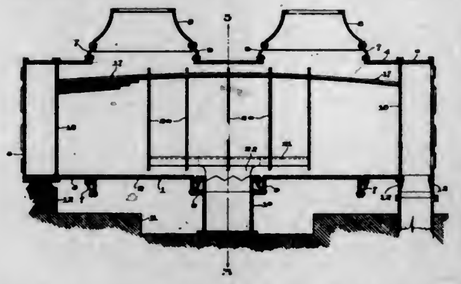
1. In a condenser, a condenser shell, an exhaust steam inlet member, a condensate reservoir, and expansion joints between said inlet member and shell and between said condensate reservoir and shell.

1,780,477. CONDENSER. JOHN F. GRACE, Arlington, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Jan. 16, 1930. Serial No. 421,198. 18 Claims. (Cl. 257—43.)



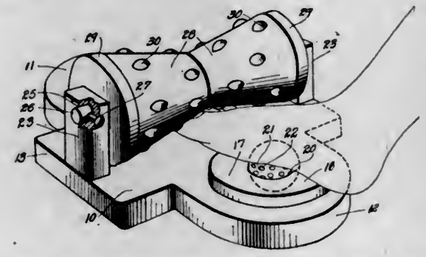
1. In a condenser, a shell, spring supports therefor, a hot well rigidly supported independently of said shell, and an expansion joint between said hot well and shell.

1,780,478. CONDENSER. JOHN F. GRACE, Arlington, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Jan. 16, 1930. Serial No. 421,199. 12 Claims. (Cl. 257—43.)



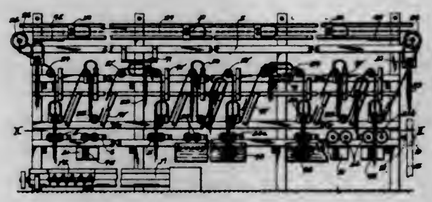
1. In a condenser, a shell, a hot well, tubes in said shell, an expansion joint connecting said hot well and shell, and support plates for said tubes rigidly connected to and supported from said hot well.

1,780,479. ARCH CORRECTOR. FLOYD H. GRIFFITH, Kansas City, Mo. Filed July 13, 1926. Serial No. 122,208. 2 Claims. (Cl. 128—57.)



1. An arch corrector including a base plate, a roller mounted transversely on the plate having tapered surfaces meeting on the median line of the plate and a ball rotatably mounted on the median line of the plate in spaced relation with the roller.

1,780,480. METHOD OF AND APPARATUS FOR DECORTICATING, RETTING, AND SCUTCHING FLAX. NORMAN CECIL GRIGG, Drysdale, Victoria, Australia. Filed Jan. 12, 1929. Serial No. 332,073. 18 Claims. (Cl. 19—13.)



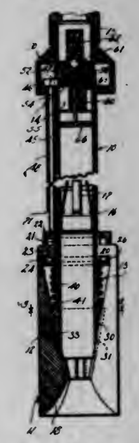
1. A method of treating flax which consists in attaching sheaves of flax to a conveyor at longitudinally spaced positions thereof, causing the conveyor to feed each sheaf successively to series of decorticating devices, retting devices and scutching devices, and varying the attitude of each sheaf on the conveyor after a portion of the sheaf has been acted upon by one or more devices of each series so that the other portion of the sheaf will be acted upon by the other device or devices of each of said series of devices.

1,780,481. SPIRAL CONVEYER. STEPHEN H. HALE, Kansas City, Mo., assignor to Gleaner Combine Harvester Corporation, Independence, Mo., a Corporation of Delaware. Filed Sept. 14, 1928. Serial No. 306,034. 5 Claims. (Cl. 56—20.)



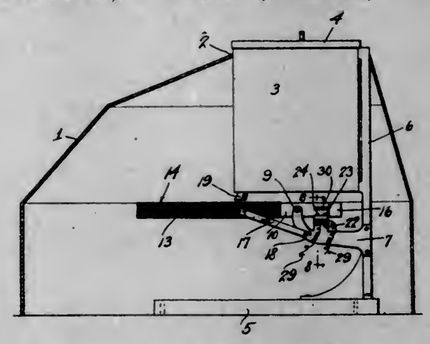
1. In combination with a conveyer housing having a lateral discharge opening at one end, a shaft rotatable in said housing, a spiral conveyer blade on the shaft, terminating in a wing radial to and substantially parallel with the shaft, and a stop member on the shaft at the end of the housing cooperative with said wing for interrupting travel of grain longitudinally in the housing and diverting the grain into said opening.

1,780,482. WELL TOOL. LELAND S. HAMER and JOHN Q. [illegible]TLE, Long Beach, Calif. Filed Dec. 3, 1928. Serial No. 323,447. 13 Claims. (Cl. 294—86.)



1. A well tool of the character described including, a body, an expansible head to guide an object into the body, means carried by the body for releasably holding the head in an unexpanded position, and means for yieldingly holding the head in expanded position.

1,780,483. AMMONIA-GAS DETECTOR. LOUIS A. HAVENS, Jr., Queens Village, N. Y. Filed Oct. 3, 1928. Serial No. 309,975. 7 Claims. (Cl. 200—52.)



1. A gas detecting apparatus comprising in combination, a gas collecting hood, a standard arranged within the

hood, a vertically swinging liquid container having a foraminous body, a circuit closer structure operatively associated with the pivoted container and the support and normally held in an inoperative position by the weight of the liquid in the container, said circuit closer structure being disposed in an operative position when the gas collected in the hood comes in contact with the liquid in the container to lower the surface tension thereof and to cause the liquid to flow downwardly through the foraminous body of the container.

1,780,484. TEA CARTRIDGE. BENJAMIN HIRSCHHORN, New York, N. Y., assignor to Millie Patent Holding Co., Inc., New York, N. Y., a Corporation of New York. Filed Apr. 18, 1929. Serial No. 356,055. 1 Claim. (Cl. 53—3.)



A device for extracting essence from tea-leaves or coffee, comprising a bag having its mouth drawn into folds, a metal strip engaging and compressing said folds for closing the mouth of said bag, a suspending string extended through said metal strip, a handle attached to one end of said string, and a stop on the other end of said string, said string being adapted to be drawn through said metal strip in either direction so that either said stop or said handle is adapted to be brought adjacent said metal strip.

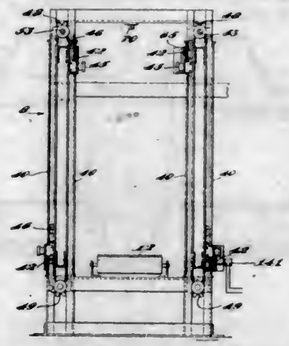
1,780,485. OPERATING BLAST FURNACES. JOHN C. HOPKINS, Lakewood, and ALFRED OSOLIN, Cleveland, Ohio. Filed May 13, 1929. Serial No. 362,794. 3 Claims. (Cl. 266—42.)



1. In the operation of blast furnaces the steps consisting of tapping said furnaces with the blast pressure on, and then stopping the iron flow while the blast pressure is maintained by forcing a continuous and uninterrupted flow of clay into the tapping-hole under sufficient pressure to stop the flow of iron and until the tapping-hole is completely plugged.

1,780,486. CONVEYER SYSTEM. CHESTER S. JENNINGS and LAVONT C. ALLEN, Syracuse, N. Y., assignors to The Lamson Company, Syracuse, N. Y., a Corporation of Massachusetts. Filed Mar. 30, 1929. Serial No. 351,147. 25 Claims. (Cl. 198—37.)

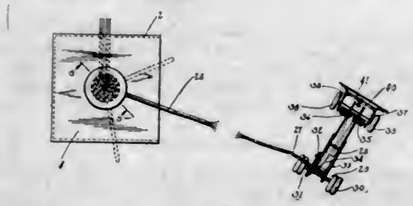
9. Apparatus of the class described, comprising a plurality of elevators, a common conveyer arranged to receive loads from each of the elevators, stations at which loads may be supplied to the elevators, individual driving means for each of the elevators, individual control means permitting actuation of the driving means only when the corresponding elevators are loaded, and a common control means permitting movement of the loaded elevators only in synchronized relation.



20. Apparatus of the class described comprising a plurality of devices each movable along a predetermined path from load-receiving to load-delivering position, means adapted to move all of said devices synchronously, and control means preventing movements of any of such devices which has not received a load but permitting the loaded devices to move in unison.

23. Apparatus of the class described comprising a plurality of devices each movable along a predetermined path from load-receiving to load-delivering position, control means comprising a timer for determining the instant at which such devices may start to move, means adapted to move all of said devices in unison, and means to prevent any of said devices from starting during the loading of any one of said devices.

1,780,487. ELECTRIC TOY. MAX L. JURGENSEN, Chicago, Ill. Filed Apr. 18, 1929. Serial No. 356,171. 8 Claims. (Cl. 46—49.)



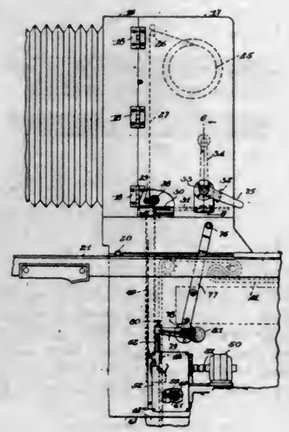
1. A device of the type described comprising a movable toy provided with wheels, electromagnetic means for turning certain of said wheels to steer the toy, and means for bringing the wheels into a normal position for causing a direct forward movement when the electromagnetic means is de-energized.

1,780,488. PRICE TAG. FREDERICK KOHNLE, Dayton, Ohio, assignor to The Monarch Marking System Company, Dayton, Ohio, a Corporation of Ohio. Filed Feb. 20, 1929. Serial No. 341,442. 1 Claim. (Cl. 40—25.)



In a pin ticket, a ticket of plural ply thickness the material forming the ticket folded upon itself providing a fold edge along one end of the ticket, and a penetrating and attaching member therefor constituting a wire bent to form a plurality of double shank pins extending from one side of the ticket, a cross bar portion connecting the pins between the plies of the ticket and extending parallel with and in proximity with the fold edge of the ticket, and the free ends of the wire each respectively extending from the pin at right angles to the cross bar portion and between the plies of the ticket, and toward the fold edge thereof, the cross bar portion and free ends forming a base for the pins and concealed within the ticket.

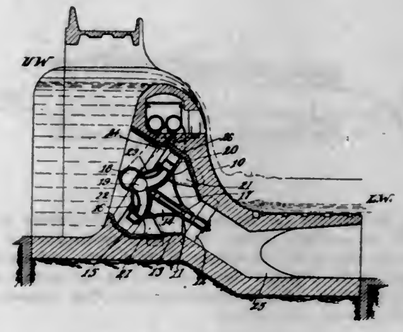
1,780,489. PHOTOGRAPHIC APPARATUS. PAUL LANDROCK, Rochester, N. Y., assignor to Photostat Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Nov. 6, 1928. Serial No. 317,611. 7 Claims. (Cl. 95—34.)



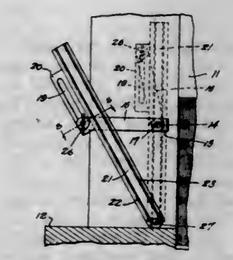
1. In a photographic apparatus, the combination with a camera body arranged to contain a strip of sensitized sheet material, of exposing mechanism, devices for feeding said strip to bring successive portions thereof into the focal plane for exposure and to remove the exposed portions from the focal plane, sheet severing means operable at will independently of said exposing mechanism arranged to sever the exposed portions of said strip, conveying mechanism for moving the severed portions of said sheet material, a driving motor, clutch means connecting said driving motor to said conveying mechanism, and instrumentalities under the control of said severing means for controlling said clutch means.

1,780,490. UTILIZATION OF HYDRAULIC ENERGY. FRANZ LAWACZECK, Munich, Germany, assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Original application filed Aug. 24, 1921, Serial No. 494,893, and in Germany Dec. 21, 1918. Divided and this application filed May 14, 1928. Serial No. 277,732. 4 Claims. (Cl. 103—87.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. In a hydraulic power plant, a dam, a low pressure turbine, a rotary pump, said pump and turbine connected to form a unit located in the dam, said rotary pump and turbine being disposed in the dam to provide a water passage about the pump to the vanes of the turbine runner, and a float forming chamber between said pump and turbine for balancing the pump and the turbine unit and reducing bearing stress.



1,780,491. VENTILATOR. ADOLPH MAEULEN, Williamsport, Pa., assignor to Williamsport Mirror & Glass Co., Williamsport, Pa., a Corporation of Pennsylvania. Filed Mar. 5, 1930. Serial No. 433,380. 7 Claims. (Cl. 98—99.)



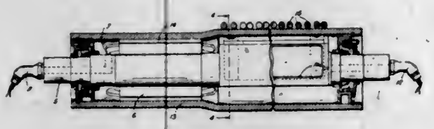
3. A window ventilator bracket including a channel-shaped member made up of a web and opposite side walls, means for pivotally connecting said member to a window frame, one of said walls being cut to provide a slotted tongue arranged in substantially the same plane as the web.

1,780,492. RAIN DRAIN FOR WINDOW SCREENS. EDWARD A. MALM, Wadena, Minn. Filed Dec. 2, 1927. Serial No. 237,271. 1 Claim. (Cl. 156—14.)



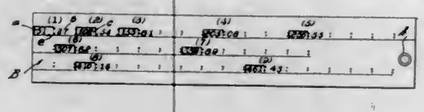
A rain drain for window screens, comprising a unit consisting of a tubular shell, a flanged end, a perforated end and an outwardly raised projection on the shell body.

1,780,493. CONVEYER AND CONVEYER ROLLER. WILLIS MCKEE, Cleveland, Ohio, assignor to The Central United National Bank, a Corporation of Ohio. Filed Sept. 17, 1927. Serial No. 220,111. 11 Claims. (Cl. 198—127.)



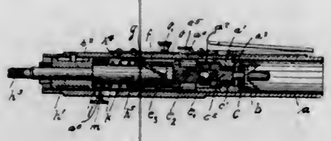
1. A conveyer for magnetic articles comprising a plurality of rollers, means for rotatably supporting said rollers, certain of said rollers being driven, and electrical means in the driven rollers for rotating the same and including winding for magnetically attracting magnetic articles on said last rollers.

1,780,494. CALCULATING DEVICE. JOHN R. MCNALLY, Raleigh, N. C. Filed Sept. 15, 1928. Serial No. 306,200. 1 Claim. (Cl. 235—89.)



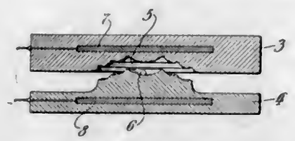
A calculating device of the character described comprising in combination a card having a partial key number positioned thereon and a plurality of numbers constituting partial products of said partial key number and an apertured card adapted to be superposed on said first card, said apertured card having a key number aperture therein adapted to expose the partial key number therethrough and also having the remainder of the key number positioned thereon adjacent said key number aperture, the remaining apertures of said card having numbers positioned adjacent thereto constituting multipliers of said key number, said remaining apertures being disposed about said apertured card whereby to expose therethrough selected numbers of said first card, said selected numbers constituting partial products of the key number, said apertured card having numbers adjacent each aperture, said latter numbers when combined with said partial products completing the product of the key number by the multiplier.

1,780,495. DRIVING MECHANISM USED IN CONNECTION WITH DENTAL TOOLS. HENRY MEYER, Hamburg, Germany. Filed Mar. 6, 1928, Serial No. 259,591, and in Germany Mar. 7, 1927. 3 Claims. (Cl. 192—56.)



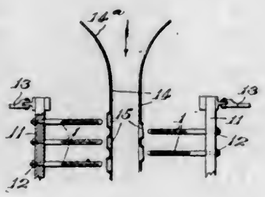
1. In combination, a casing, a power driven shaft mounted in the casing, said shaft having a spiral groove, a clutch member slidably mounted on the end of said shaft, a ball seated between the clutch member and the spiral groove, a second clutch member mounted in the casing in alignment with the first mentioned clutch member, a tool holder carried by the second mentioned clutch member, a spring for normally moving the first mentioned clutch member to engage the second mentioned clutch member and an automatically operated latch for holding the first mentioned clutch member out of engagement with the second mentioned clutch member.

1,780,496. METHOD OF EMBOSSING PLYWOOD. GEORGE R. MEYERCORD, Chicago, Ill., and CHARLES B. NORRIS, Grand Rapids, Mich., assignors to Haskelite Manufacturing Corporation, a Corporation of New York. Filed Mar. 15, 1929. Serial No. 347,436. 7 Claims. (Cl. 101—32.)



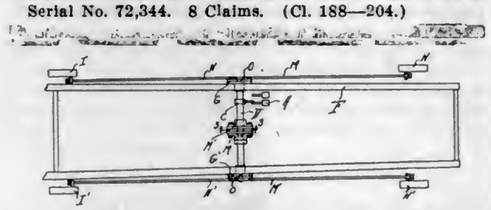
1. The method of producing an embossed plywood panel which consists in boiling the panel, placing it between suitable complementary heated dies, alternately opening the dies and closing them under a high pressure during a short period of time, and then holding the dies closed on the work until the latter has become dry.

1,780,497. COTTON PICKER. WILLIAM E. MILLER, ROY J. SHINN, and CORNELIUS S. GROVE, Hickory, N. C. Filed Apr. 12, 1928. Serial No. 269,552. 8 Claims. (Cl. 56—41.)



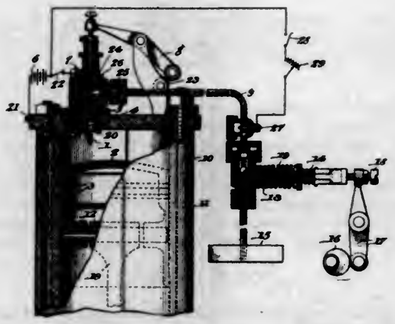
1. In a cotton picker, the combination with a barbed reciprocatory finger, of a fixed stripper plate having an opening through said finger is adapted to freely reciprocate, the inner margin of said opening being flaring or funnel shaped, and spaced from said finger.

1,780,498. BRAKE-EQUALIZING MECHANISM. OWEN M. NACKEN, Detroit, Mich., assignor of one-half to Alanson P. Brush, Detroit, Mich. Filed Nov. 30, 1925. Serial No. 72,344. 8 Claims. (Cl. 188—204.)



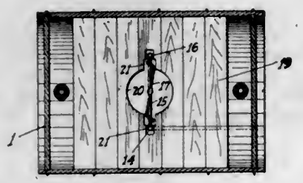
6. In a brake system, the combination with a plurality of brakes, and a common actuating member therefor, of a plurality of equalizing elements arranged between the common actuating member and the said brakes, and means for locking each of the said equalizing elements.

1,780,499. SYSTEM OF IGNITION FOR EXPLOSIVE MIXTURES. LUIS NOVELLI, Bahia Blanca, Argentine Republic. Filed Aug. 7, 1929. Serial No. 384,220. 4 Claims. (Cl. 123—32.)



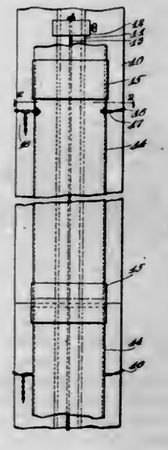
1. The combination of a combustion engine, a pressure fuel supply having a conduit leading directly to a combustion chamber of the engine; an electric heating element within and coextensive with the conduit; and an ignition element within the chamber confronting the inlet thereto from the conduit.

1,780,500. SPRAY-TANK AGITATOR. ELWIN L. O'HARA, Antioch, Calif. Filed Mar. 8, 1929. Serial No. 345,422. 2 Claims. (Cl. 259—96.)



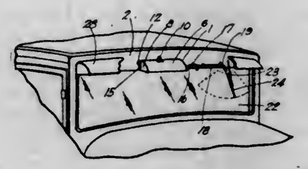
1. In a spray tank, a rotary agitating nozzle disposed to be below the level of the liquid in the tank, said nozzle comprising opposed radial discharge pipes and a hub to which they are secured set on a vertical axis, a baffle-floor disposed above the agitator and terminating short of the end-walls of the tank, said floor having an opening concentric with the agitator, and means for circulating liquid from the tank through the agitator under pressure.

1,780,501. PLUMB PROTECTOR FOR ELEVATOR GUIDES. THOMAS J. OSINGA, Chicago, Ill. Filed Feb. 1, 1929. Serial No. 336,848. 7 Claims. (Cl. 33—216.)



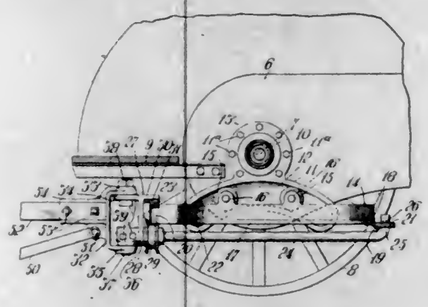
1. A protective enclosure for the plumb wire employed for alining the guide rails in an elevator shaft, comprising a tubular housing about the wire, and open in the side adjacent the rail, the latter forming a closure for the opening when the housing is assembled with the rail.

1,780,502. APPARATUS FOR ELIMINATING ICE FROM WINDSHIELDS. CLIFF R. OTTO, Edmond, Okla. Filed Feb. 4, 1929. Serial No. 337,512. 2 Claims. (Cl. 20—40.5.)



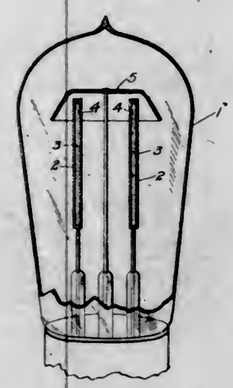
1. A device of the class described, comprising a rigid reservoir disposed on the exterior of the front top cross-frame of a motor vehicle, adjacent the front surface of the wind-shield thereof, for housing a suitable liquid, having protruding from one of its lower edges, a short nipple, a suitable pipe adapted to be anchored to said top cross-frame having its outer end turned downwardly, a delivery tube of suitable material adapted at one end to snugly fit the turned down portion of said pipe its other end being beveled forming a lip on its lower edge, said lip being adapted to constantly touch the outer surface of said wind-shield, a rubber tubing adapted at one end to snugly fit said short nipple the other end adapted to fit said pipe, a screw-clamp pinch-cock, adapted to fit said rubber tubing and to regulate and stop the flow of liquid therethrough, all and as for the purposes specified.

1,780,503. POWER-TRANSMITTING MECHANISM. WILLIAM L. PAUL, Berkeley, Calif., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Dec. 3, 1928. Serial No. 323,490. 51 Claims. (Cl. 280—33.12.)



1. A hitch connection for tractors comprising a draft frame connected with the tractor to oscillate vertically about a point lying below the point of physical connection of said draft frame with the tractor, and rearwardly extending draft transmitting means pivotally connected with said draft frame.

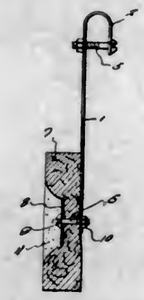
1,780,504. RECTIFYING TUBE. JACQUES RISLER, Paris, France, assignor to Risler Corporation of America, Kansas City, Mo., a Corporation of Delaware. Filed Aug. 1, 1927, Serial No. 209,788, and in France June 3, 1927. 1 Claim. (Cl. 250—27.5.)



A rectifying tube comprising a bulb evacuated to 2 to 10—4 mm. containing an anode with an exposed surface of substantially 4 cm^2 and two hollow, perforated cathodes each substantially 0.5 mm. in diameter and 2 cm. long and placed with their ends 2 to 4 mm. from the anode surface, the hollows in the cathodes containing an alkaline earth salt.

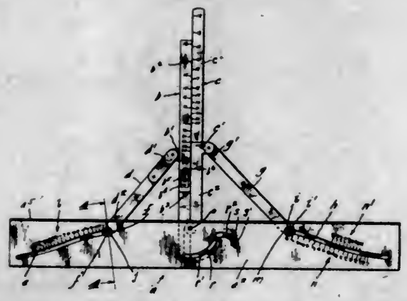
1,780,505. OIL-GAUGE-ROD WIPER. JOHN RUFFING, Sr., Nokomis, Ill. Filed Feb. 20, 1930. Serial No. 429,990. 1 Claim. (Cl. 15—210.)

An oil gauge rod wiper of the character described comprising a flat, elongated metallic hanger, an integral supporting yoke on one end of the hanger, a clamping bolt extending through the yoke, a wiping disc of compressible material disposed against the other end portion of the hanger, a headed bolt extending centrally through the disc and through the hanger, a washer mounted on the bolt and interposed between the disc and the bolt head, and



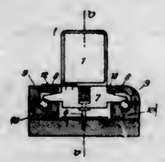
a nut threaded on the bolt and engaged with the hanger in a manner to draw the bolt therethrough for compressing the central portion of the disc and forming a depression in the free side of the disc, the marginal portion of the disc being uncompressed and comparatively loose.

1,780,506. COMBINATION TOOL. AXEL RUTQUIST, Portland, Oreg. Filed June 29, 1925. Serial No. 40,342. 3 Claims. (Cl. 33—91.)



1. An instrument of the character described, comprising a straight-edge formed on one of its edges with oppositely projecting flanges normal to the said straight-edge, two arms each pivoted adjacent one end to the straight edge between the flanges at a common point, one of said arms being provided with a slidable extension, said arms being correspondingly graduated, and means, carried by the straight-edge, adapted to lock said arms together when arranged normal to each other.

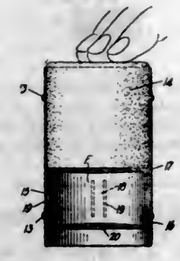
1,780,507. METHOD OF TELEGRAPHING IN MORSE CODE AND APPARATUS THEREFOR. RICHARD LEONARD ARNOLD SCHOEMAKER, Delft, Netherlands. Filed Mar. 20, 1928, Serial No. 263,040, and in the Netherlands May 20, 1927. 5 Claims. (Cl. 178—87.)



1. The method of telegraphically transmitting messages in Morse code by the means of electric impulses in which

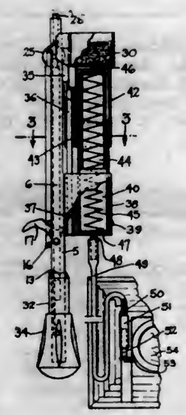
all the symbols and characters of the Morse alphabet as well as every combination of the same are produced by moving one single contact over one single path of contacts or the reverse, and wherein movement of the movable contact in one direction from the starting position at zero and then back to said starting position, transmits a dot or dots, with the proper intervals, and its movement from the zero position in the opposite direction, and back to the zero position, transmits a dash or dashes, with the proper intervals, combinations of dots and dashes being produced by combinations of movements on both sides of the zero position.

1,780,508. DISPENSING CONTAINER. HERMAN E. SCHULSE, New York, N. Y., assignor to H. E. Schulse Inc., a Corporation of New York. Filed Oct. 17, 1927. Serial No. 226,565. 7 Claims. (Cl. 206—56.)



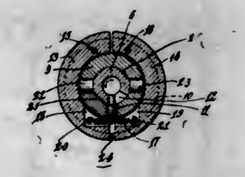
5. A dispensing holder for stick polish wax comprising a metallic open-ended cylindrical case, a follower cylinder therein closed at both ends and of substantial height, said follower cylinder having a spring gripping means for friction-holding engagement within the cylinder in any position, either of the opposite faces of said closed cylinder being adapted for direct engagement by the thumb for facility in feeding the stick from either end of the holder.

1,780,509. FLASH DEVICE. WILLIAM T. SKINNER, Leonia, N. J. Filed Mar. 23, 1929. Serial No. 349,398. 3 Claims. (Cl. 67—29.)



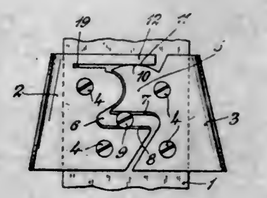
3. In a flashlight device for a camera, a handle, ignition mechanism mounted thereon, first and second socket pieces secured to said handle, a guide rod in said socket pieces, a sleeve slidable on said guide rod, an outer movable cylinder secured to said sleeve, an open top powder container secured to said cylinder, a stationary cylinder fixed to said lower socket piece and disposed within said movable cylinder, a movable inner cylinder within said cylinders, a helical spring within said fixed cylinder and said inner movable cylinder, and a flexible air hose connected to said stationary cylinder and adapted to be connected to the film exposure control mechanism of a camera.

1,780,510. COLLAPSIBLE HUB. ANTHONY G. WISE, Los Angeles, Calif., assignor to Metro-Goldwyn-Mayer Corporation, Culver City, Calif., a Corporation of New York. Filed Aug. 25, 1928. Serial No. 302,085. 5 Claims. (Cl. 242—70.)



1. A collapsible hub comprising a central sleeve provided with flats in its outer surface, a spool on said sleeve, means for limiting the rotation of said spool on said sleeve, hub sections pivotally connected to said spool, spring means yieldingly connecting the free ends of said hub sections, and means carried by said spool and adapted to cooperate with said sleeve for pivotally moving said hub sections into expanded position when said sleeve is partially rotated with respect to said spool.

1,780,511. SKI TIE. BROR WITH, Skoyen, near Oslo, Norway. Filed Mar. 16, 1929, Serial No. 347,517, and in Norway Mar. 29, 1928. 6 Claims. (Cl. 208—184.)

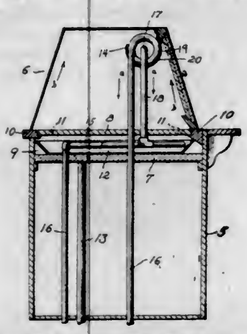


1. Toe irons for a ski tie comprising horizontal portions adapted to be secured to the upper surface of the ski, one of which portions is provided with a projection received by a cut-out in the other portion, one side edge of the projection and the adjacent side edge of the cut-out being beveled, such side edges being so far apart that a slot is formed therebetween, an adjusting screw entering the slot and acting against the beveled portions of said edges and forcing the opposite edge of the projection against the adjacent side edge of the cut-out and thereby temporarily securing said portions to each other and to the ski under the adjustment of said irons.

1,780,512. SHOW CASE. OSCAR MEYER WOLFF, Chicago, Ill. Filed Dec. 12, 1927. Serial No. 239,570. 4 Claims. (Cl. 62—89.5.)

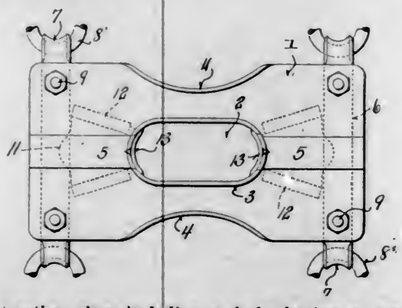
1. In a show case, the combination of a casing having an upper display compartment and a lower counter compartment, a horizontal partition separating the two compartments, displaceable plates forming a closed floor for the display compartment spaced above the horizontal partition to provide an intermediate chamber between the two compartments, said plates having openings through their opposite ends for the flow of condensate from the display compartment to the intermediate chamber, and a heat exchange element comprising upper and lower coils

in series connection mounted in the casing with the upper coil positioned in the display compartment adjacent to the top thereof and the lower coil positioned in the intermediate chamber, said upper coil comprising a straight pipe and a spiral pipe coiled around the straight pipe to provide an extensive heat exchange surface within a small compass in the upper part of the display chamber, said lower coil being flat to fit within the intermediate cham-



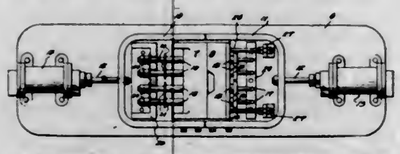
ber adjacent to the floor of the display chamber and having less heat exchange surface than the upper coil so that the greater chilling effect of the latter tends to induce vertical circulation of air in the display chamber, said plates providing a screen for the lower coil to temper the chilling effect of the latter on the lower part of the display compartment to enhance the circulation of air in the display compartment.

1,780,513. TRACTION LUG. BRUNO ARPS, New Holstein, Wis. Filed July 20, 1928. Serial No. 294,135. 1 Claim. (Cl. 305—10.)



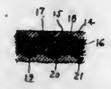
A traction shoe including a body having a central opening, inwardly projecting wheel guide lugs having inclined guide faces, lateral feet on each lug secured to the inner face of the body and tongues on the inner lateral ends of said lugs projecting into the central opening and secured to said body.

1,780,514. MOLDING APPARATUS. ARTHUR T. BATEMAN and ANDREW IRVINE, Detroit, Mich., assignors to Bohn Aluminum & Brass Corporation, Detroit, Mich., a Corporation of Michigan. Filed Aug. 17, 1928. Serial No. 300,285. 4 Claims. (Cl. 22—136.)



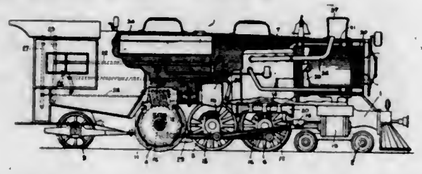
1. In a molding apparatus, the combination with a base, of permanent mold sections arranged on said base and adapted to form a mold cavity, said mold sections including a movable mold section, and means for ejecting the casting formed in the mold cavity of said movable mold section, including an ejector rod slidably engaging said movable mold section, a head upon said rod, a stop upon said base through which the ejector rod slides, means upon said rod and engageable with one side of said stop for limiting the movement of said rod in one direction, means upon said movable mold section and engageable with said head to move said rod in the opposite direction, and means upon said rod engageable with the other side of said stop for limiting movement of said rod by the movable mold section.

1,780,515. BRAIDED WAVED BRAID. HARRY BERLIN, Brooklyn, N. Y. Filed Mar. 19, 1930. Serial No. 437,079. 2 Claims. (Cl. 96—25.)



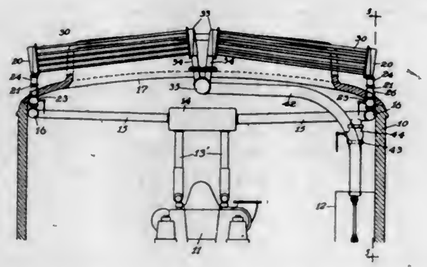
1. A new article of manufacture comprising a braid of diagonal weave wherein the threads of the longitudinal central portion are alternately forced towards the outer edge of the braid, providing a wave-like zone in the center of the braid.

1,780,516. LOCOMOTIVE POWER PLANT. LEONARD R. BESTER, Long Island City, N. Y. Original application filed Feb. 28, 1930, Serial No. 432,076. Divided and this application filed May 2, 1930. Serial No. 449,112. 8 Claims. (Cl. 105—62.)



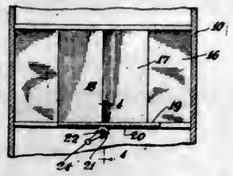
1. A locomotive comprising a frame, three sets of driving wheels held therein, and an internal combustion engine located above said wheels, and a boiler shell enclosing said engine.

1,780,517. INTERNAL-COMBUSTION-ENGINE COOLING SYSTEM. ANDREW CHRISTIANSON, Pittsburgh, Pa., assignor to Standard Steel Car Corporation, a Corporation of Pennsylvania. Filed Sept. 22, 1927. Serial No. 221,266. 8 Claims. (Cl. 123—174.)



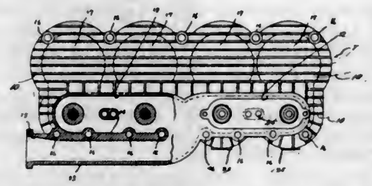
1. The combination in a railroad motor car of a motor cooling system including a radiator positioned above the roof of said car, a water pipe extending loosely through an opening formed in said roof, means for resiliently supporting said radiator on said roof and a yielding water-conveying connection between said pipe and said radiator.

1,780,518. ARMORED CAR. KARL DANKER, New York, N. Y. Filed May 7, 1929. Serial No. 361,149. 2 Claims. (Cl. 89—40.)



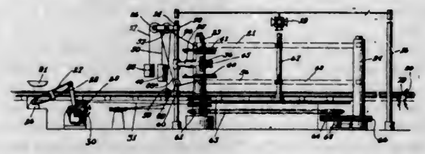
1. In an armored car of the class described, a windshield, a means for protecting said windshield in case of danger, said means comprising a pair of shutters, frames therefor, a rack on said frame, a gear in mesh with said rack, and an operating handle within the car to close said shutters behind the windshield.

1,780,519. INTAKE MANIFOLD. EVERETT M. DE LONG, Detroit, Mich. Filed Sept. 24, 1925. Serial No. 58,411. 2 Claims. (Cl. 123—52.)



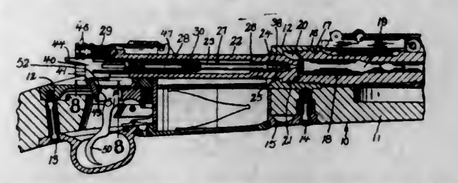
1. In combination with an internal combustion engine having a cylinder block provided with a plurality of cylinders, a unitary head adapted for mounting on said block, said head having a longitudinally extending chamber formed therein, the under surface of said head being spaced from the upper surface of said block throughout the major portion of its area to provide a plurality of chambers each in communication with one of said cylinders, said longitudinal extending chamber communicating with inlet ports with each of said cylinder communicating chambers; an exhaust conduit for each of said cylinders in said block and opening beneath said inlet port into said cylinder communicating chambers; a valve cage mounted on and integral with said head; an intake conduit integral with said head and extending longitudinally thereof throughout substantially one-half its length and communicating with said longitudinally extending chamber, said longitudinally extending chamber lying intermediate the axial line of said intake conduit and said cylinder communicating chambers.

1,780,520. RAILROAD-CROSSING GATE AND TRAIN STOP. PAUL FISCHER, New York, N. Y. Filed Nov. 8, 1929. Serial No. 405,611. 13 Claims. (Cl. 246—127.)



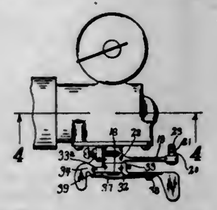
1. In a railroad crossing barrier a hollow post, a rigid shaft receiving said hollow post, a sheave wheel mounted revolvably on said shaft, said sheave wheel being movable independently of hollow post, a cable trained about said sheave wheel, a weight suspended from said cable, a sleeve mounted loosely on said shaft, a ratchet wheel rigid with said sleeve and said sheave wheel and means remote from said hollow post for rotating said ratchet wheel in one direction and lifting said weight when taking up said cable on said sheave wheel for rotating said post.

1,780,521. HIGH-SPEED-FIRING MECHANISM. JOHN C. GARAND, Springfield, Mass., assignor to The Lyman Gun Sight Corporation, Middlefield, Conn. Filed Dec. 28, 1928. Serial No. 329,012. 18 Claims. (Cl. 42—16.)



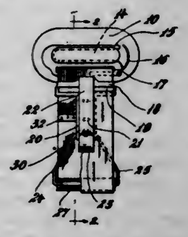
1. In a firing pin for a rifle having a receiver, and a rotatable bolt mounted in said receiver in which said firing pin is adapted to be mounted, said bolt being provided with a cam, a camming surface on the firing pin adapted on rotation of the bolt to cooperate with the cam to move the firing pin longitudinally of the bolt, and means on said firing pin for preventing rotation of the latter during the camming thereof by the bolt, said means including a device carried by the firing pin and engaging a part of the receiver during the camming of the firing pin to hold the latter out of contact with the receiver.

1,780,522. REMOTE CONTROL DEVICE FOR CARBURETORS. FORRESTER L. HAMMER, Branford, WOODRUFF R. SMITH, West Haven, and SWAN ESBORN, Branford, Conn., assignors to Malleable Iron Fittings Company, Branford, Conn. Filed July 19, 1928. Serial No. 294,021. 8 Claims. (Cl. 261—62.)



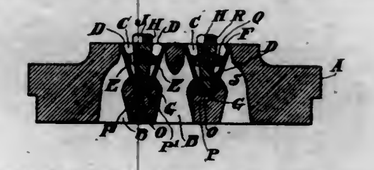
1. In a device for controlling a carburetor valve, a controlling arm adapted to be connected to said valve, means for limiting the movement of said arm, means for actuating said arm from a remote point, a second controller arm connected to said valve and having an unlimited oscillatory movement, and means to disconnect said first named arm from the carburetor valve to permit movement of the latter by the second named arm beyond the position defined by the limiting means.

1,780,523. BELT CARRIER. AUGUST HEIN, Brooklyn, N. Y. Filed Aug. 15, 1929. Serial No. 386,121. 5 Claims. (Cl. 241—7.)



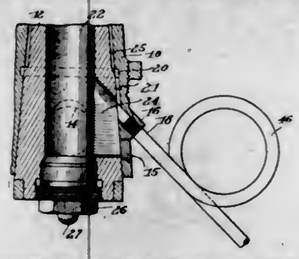
1. In a belt carrier an anchor plate, a nose on said anchor plate, a bifurcated member engaging said nose, a belt carrying member, an elastic band suspending said belt carrying member from said plate, and means for locking said bifurcated member in engagement with said nose.

1,780,524. PLATE VALVE. LESLIE R. HUFF, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Nov. 22, 1928. Serial No. 321,103. 4 Claims. (Cl. 277—46.)



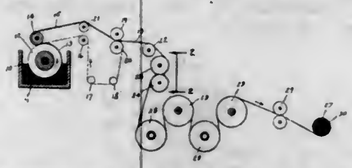
1. In a plate valve assembly, the combination of a valve seat having grooves therein and passageways in the valve seat opening into the grooves, stop plates in the grooves, diverging sides in the grooves to form seating surfaces around the outlet openings of the passageways, rigid valve plates in the grooves cooperating with the seating surfaces for controlling the passageways, means integral with the valve plates and engaging the stop plates for retaining the valve plates in the grooves, and springs interposed between the valve plates and the stop plates for closing the valve plates.

1,780,525. SANITARY VALVE. JENS N. JACOBSEN, Alameda, Calif., assignor to The Pfaudler Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 29, 1927. Serial No. 187,656. 8 Claims. (Cl. 137—69.)



1. The combination with a valve provided with a chamber having inlet and outlet ports and an auxiliary port, of a fluid conduit provided with a trap adapted to communicate with said auxiliary port, and means for closing said inlet and outlet ports, opening said auxiliary port, and causing said fluid conduit to communicate with said chamber.

1,780,526. SHOCK-ABSORBING CUSHIONING PAPER AND METHOD OF MAKING SAME. JOHN E. KIEFFER, Ewing, Ind., assignor to Kieffer Paper Mills, Ewing, Ind. Filed Dec. 27, 1927. Serial No. 242,875. 1 Claim. (Cl. 92—49.)



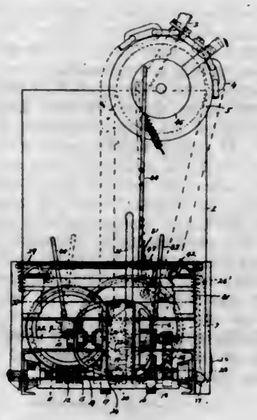
As an article of manufacture, a shock absorbing cushioning paper provided on both of its sides with a multiplicity of molded hollow resilient protuberances closely spaced in all directions, said protuberances having been molded into said paper after it has been completely formed and after a substantial portion of its water content had been removed without materially decreasing its plasticity or causing the fibers to set in their usual substantially flat condition, and prior to the final conditioning and setting of the fibers of the paper, said resilient protuberances serving to impart to said paper a rubber-like resiliency normal to the surface.

1,780,527. FOUNTAIN PEN. MORRIS KOLBER, Brooklyn, N. Y., assignor to New Diamond Point Pen Co., Inc., New York, N. Y., a Corporation of New York. Filed Aug. 17, 1929. Serial No. 386,528. 2 Claims. (Cl. 120—42.)



1. As a new article of manufacture, a self filling fountain pen embodying a barrel having a relatively thin tubular wall for the greater portion of its length, one end of the barrel terminating in a chambered, exteriorly threaded portion having a wall of greater thickness than the wall of the barrel and provided exteriorly and intermediate the ends of the threaded portion with a rigid annular flange, a suitable plug carrying a pen point and closing the other end of the barrel, a self-filling mechanism associated with the barrel intermediate the said plug and the threaded portion whereby the threaded portion at either side of the flange is adapted to be screwed into a suitable cap which serves to house and conceal the self-filling mechanism when the pen is not in use.

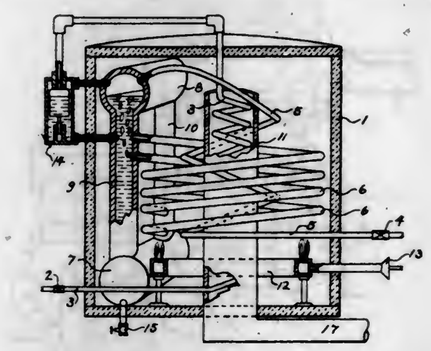
1,780,528. BALING PRESS. GEORGE W. LANGFORD, Ann Arbor, Mich. Filed Apr. 5, 1923. Serial No. 630,078. 8 Claims. (Cl. 192—138.)



1. A driving means for baling presses having a baling chamber and a plunger movable therein, including a motor, a worm, change speed gearing between said motor and worm, a worm wheel meshing with said worm and operatively connected to said plunger, a member adapted to be actuated by longitudinal movement of said worm, an actuating rod connected to said member, a lever having one end engaging the actuating rod and the opposite end arranged to control the change speed gearing, and springs upon said actuating rod engageable with said lever and operable upon a longitudinal movement of the worm to control said change speed gearing.

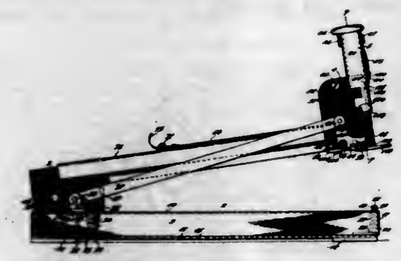
1,780,529. STEAM OR VAPOR GENERATOR. LLOYD S. LANTERMAN, La Canada, Calif. Filed Nov. 14, 1927. Serial No. 233,155. 3 Claims. (Cl. 122—250.)

1. In a tubular vapor generator, an upper steam and water drum and a lower mud drum spaced from said steam drum, a pair of spaced pipes connecting said steam and water drum and said mud drum, a coil of hollow pipe arranged adjacent said drums, said coil having the upper end thereof communicating with one end portion of



one of said pipes and having the other end thereof communicating with the lower end portion of the other pipe, a steam discharge line extending from the upper portion of the steam and water drum, said steam discharge line passing through said coil.

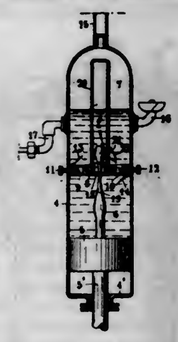
1,780,530. STAPLING MACHINE. ARTHUR H. MAYNARD, Warwick, R. I., assignor to Boston Wire Stitcher Company, Portland, Me., a Corporation of Maine. Filed Dec. 21, 1927. Serial No. 241,591. 19 Claims. (Cl. 1—3.)



1. In a stapling machine, the combination of means for driving a staple into the work, means for successively feeding staples to the driving-means, detent-means movable with the staple-driving means, means engageable with the detent-means for preventing the return of the driving-means to first position, and a cam acting on the detent-means to shift it into inoperative position when the driving-means has been moved to the full extent to complete the operation of setting the staple in the work.

1,780,531. PNEUMATIC SUSPENSION FOR AIRPLANES. GEORGE LOUIS RENÉ JEAN MESSIER, Montrouge, France. Filed Sept. 7, 1928, Serial No. 304,433, and in France Sept. 22, 1927. 2 Claims. (Cl. 267—64.)

1. In a pneumatic suspension for the landing gear of airplanes, in combination, a cylinder pivotally attached to said airplane, a piston pivoted on the landing gear and containing said piston, a volume of gas in said cylinder, a volume of liquid in said cylinder, a diaphragm centrally positioned in said cylinder below the level of said liquid, said diaphragm being provided with a central orifice and intermediate orifices, a rod having a restricted portion, integral with said piston and passing through said central orifice, a closed tube mounted on said diaphragm



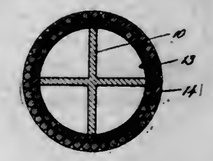
over said central orifice being provided with a side orifice and a flap valve covering said side orifice when said piston descends.

1,780,532. COMBINED COLLAR AND NECKTIE HOLDER. WILLIAM J. MORSE, Attleboro, Mass. Filed Mar. 20, 1930. Serial No. 437,410. 6 Claims. (Cl. 24—49.)



1. A combined collar and necktie holder, comprising a central necktie holding portion and a pair of oppositely-extending arms, each being provided with collar-gripping jaws.

1,780,533. ELECTRICAL CONDUCTOR. GEORGE C. OXER, New York, N. Y., assignor to American Brass Company, a Corporation of Connecticut. Continuation of application Serial No. 693,977, filed Feb. 20, 1924. This application filed Apr. 2, 1927. Serial No. 180,358. 10 Claims. (Cl. 173—13.)

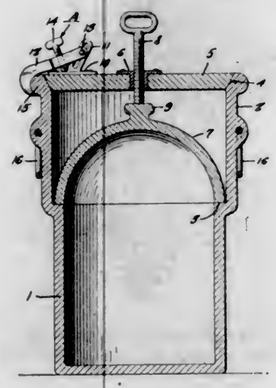


1. A flexible electrical conductor having a large superficial area adapted for high tension transmission lines, which comprises multiple concentric hollow pathways of annular cross-section made of metal of high conductivity and supported from within by a metallic reinforcement extending throughout the length of the conductor, the said reinforcement consisting of a spiralled metallic member of structural shape cross-section, the extremities of the elements of which engage the inner conducting pathway and support the conductor against collapse.

1,780,534. ACID JAR. REYNOLD W. PETERSON, Galva, Ill. Filed Dec. 10, 1928. Serial No. 325,004. 2 Claims. (Cl. 220—29.)

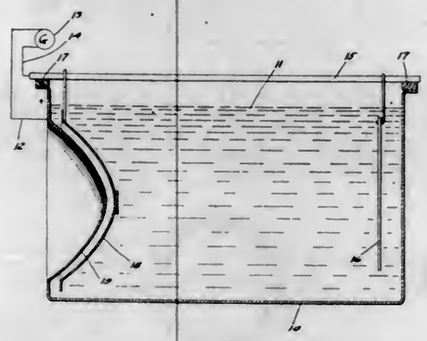
1. A device of the class described comprising a container having an enlarged upper part which forms an internal seat at its junction with the lower part, said enlarged part having a beveled seat at its upper end, a

cover having a beveled edge engaging the said seat, clamps for clamping the cover to the upper part of the receptacle, a cover within the enlargement and engaging



the shoulder and a clamping screw passing through the first cover and engaging the second cover when the screw has been turned to a certain position, for holding the second cover in place.

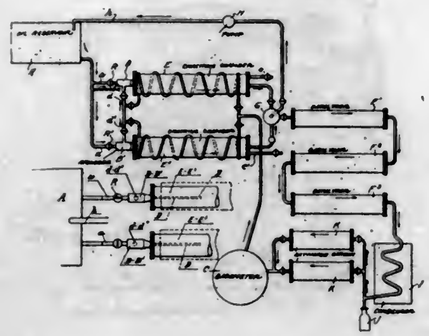
1,780,535. CHROMIUM PLATING. WILLIAM M. PHILLIPS, Birmingham, Mich., assignor, by mesne assignments, to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 30, 1926. Serial No. 119,663. 3 Claims. (Cl. 204—1.)



1. The process of depositing substantially pure metallic chromium upon conducting surfaces comprising electrolyzing a bath containing chromic acid as the principal constituent of the materials in solution and substantially free of any other constituent tending to attack iron during the deposition of the chromium, a metallic anode being employed the principal constituent of which is iron.

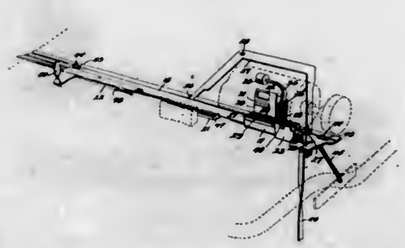
1,780,536. PROCESS AND APPARATUS FOR TREATING HYDROCARBONS. EUGÈNE ALBERT PRUDHOMME, Neuilly-sur-Seine, France, assignor to Societe International des Procedes Prudhomme (S. I. P. P.), Paris, France, a Limited Joint-Stock Company. Filed June 5, 1926, Serial No. 113,983, and in France Apr. 9, 1926. 4 Claims. (Cl. 196—53.)

4. A continuous process for treating heavy hydrocarbons which consists in atomizing a charge of said hydrocarbons, cracking the atomized charge alternately in one of a pair of heated chambers containing a catalytic purifier, condensing the resultant products and separating residual gases, heating the mass of hydrocarbons to be atomized by returning the heavy fractions of said condensed products to said mass, employing the residual



gases to assist in atomizing said charge, burning the coke deposited during cracking in one chamber while carrying on the cracking in the other chamber, and employing the heat generated by combustion of said coke to heat said residual gases.

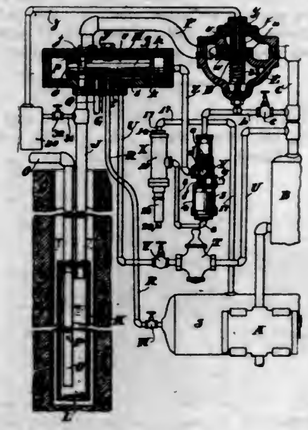
1,780,537. TYPEWRITING MACHINE. DAVID Y. READ, Washington, D. C., assignor to L C Smith & Corona Typewriters Inc., Syracuse, N. Y., a Corporation of New York. Filed July 6, 1927. Serial No. 203,814. 24 Claims. (Cl. 197—63.)



24. In a typewriting machine, in combination, a frame, a carriage mounted on the frame for translatory movement, a margin stop adjustably mounted on the carriage, a line lock stop mounted on the carriage, a bar supported on the frame adjacent the carriage and arranged parallel to the path of the carriage, an abutment adjustably supported on said bar for cooperation with the margin stop, a line lock stop abutment mounted on said bar, and means for laterally moving said bar to withdraw the abutment out of the path of travel of the margin stop for the purpose set forth.

1,780,538. ACCUMULATOR TIMING ELEMENT FOR PRESSURE-FLUID-SUPPLY VALVES. SNOWDEN B. REDFIELD and JULIUS NAAB, Easton, Pa., assignors to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Dec. 16, 1927. Serial No. 240,489. 4 Claims. (Cl. 137—139.)

1. A control mechanism for a fluid supply line, comprising a main pressure fluid supply pipe, a main control valve for the pressure fluid supply pipe, an exhaust valve, a timing accumulator to which the supply of pressure fluid

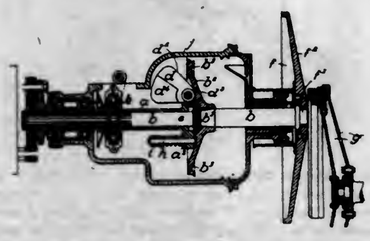


is controlled by said exhaust valve, and a change valve controlling the exhaust valve and regulated by the timing accumulator.

1,780,539. PROCESS OF TREATING FIBER OF NON-CONIFEROUS ORIGIN, GEORGE A. RICHTER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Mar. 11, 1927. Serial No. 174,718. 11 Claims. (Cl. 92—13.)

1. A step which comprises digesting previously liberated wood fiber of non-coniferous origin, at about room temperature in a solution of alkaline compounds.

1,780,540. GOVERNOR MECHANISM. JOHN HOGG ROBERTSON, London, England. Filed Aug. 8, 1929, Serial No. 384,447, and in Great Britain Dec. 19, 1928. 2 Claims. (Cl. 74—97.)



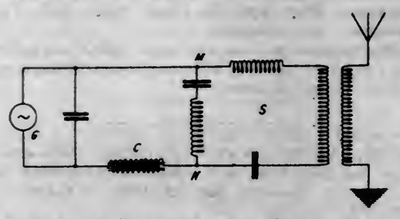
1. In a variable friction gearing having a driving member displaceable axially according to its speed, a governor mechanism comprising a rotary support mounted upon the driving shaft, a slidable plate mounted in axial alignment with said shaft, said slidable plate being fast with the axially displaceable member of the gearing, spring means tending to hold said slidable plate towards said rotary support, and a plurality of cams mounted upon said support, said cams being rotatable upon axes lying along the sides of a polygon coaxial with the driving shaft, the centers of gravity of said cams being normally on the side remote from said plate and their edges directed towards said plate being adapted to displace said plate away from said support under the action of centrifugal force, said edges being formed with initial engagement faces of spiral shape and later engagement faces of less sharply curved outline, said faces being adapted to come successively into engagement with said plate as said cams rotate under the action of centrifugal force.

1,780,541. SPRING AIR GUN. ERNEST S. ROE, Plymouth, Mich., assignor to The King Manufacturing Company, Plymouth, Mich., a Corporation of Michigan. Filed Feb. 6, 1928. Serial No. 252,307. 4 Claims. (Cl. 46—46.)



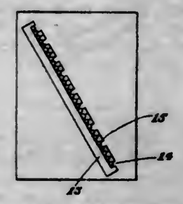
1. In an air gun, the combination with a barrel having an air chamber therein and an elongated slot adjacent to said air chamber, of a projectile adapted to close said chamber, a spring actuated plunger for compressing the air within said chamber and discharging the said projectile therefrom, and compression mechanism for said spring including a pump handle having a projection extending through said slot and terminating within said barrel in an enlarged portion for slidably supporting the handle upon the barrel, said enlarged portion also being operable in one position of the handle to form a stop for said projectile and operable in another position of the handle to move the projectile into sealing engagement with the chamber.

1,780,542. COUPLING ARRANGEMENT FOR FREQUENCY CHANGERS. WALTER SCHAFFER, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed Dec. 4, 1924, Serial No. 753,768, and in Germany Dec. 6, 1923. 3 Claims. (Cl. 172—281.)



1. In a device for transforming the frequency of an alternating current from a given value to another, an iron core choke coil for frequency multiplication, a source of fundamental frequency and a series tuned circuit tuned to said fundamental frequency, al connected electrically in series, and a consumption circuit shunted across said series tuned circuit.

1,780,543. JAZZ ORGAN. KARL STIEGELMAYER, New York, N. Y. Filed Apr. 10, 1928. Serial No. 268,818. 2 Claims. (Cl. 84—376.)

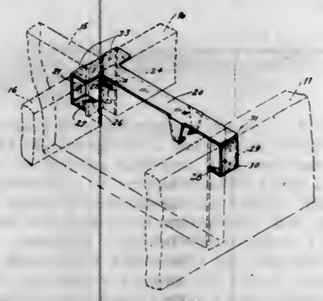


1. In a jazz organ, a bellows, a frame enclosing each end of said bellows, a key-board mounted on the face of one of said frames, said key-board extending diagonally from an upper corner outwardly to a lower corner, said key-board having keys thereon, the keys having inclined sides.

1,780,544. FASTENER FOR PACKING CASES. WILLARD M. STOREY, Winston-Salem, N. C. Filed Dec. 16, 1929. Serial No. 414,444. 6 Claims. (Cl. 217—70.)

6. In a fastener adapted to secure the partition members of a packing case in position with relation to the

side wall portions, a fastening member adapted to have one end thereof embedded in the side wall portion of the crate, and the other end thereof being adapted to

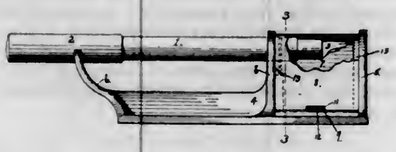


be secured in the side wall portion of one of the longitudinally disposed partition members of the crate and on opposite sides of one of the transverse partition members of said crate.

1,780,545. SUBSTITUTED THIURAM POLYSULPHIDE AND PROCESS OF MAKING. GEORGE STAFFORD WHITBY, Montreal, Quebec, Canada, assignor, by mesne assignments, to The Roessler & Hasslacher Chemical Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 28, 1928. Serial No. 273,777. 7 Claims. (Cl. 260—16.)

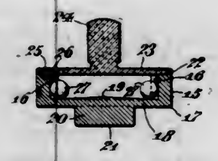
1. The method of producing tetra alkyl polysulphides which comprises treating salts of dialkyl dithiocarbamic acid with sulphur chloride.

1,780,546. FOUNTAIN-PEN HOUSING. CLINTON R. WILLIAMS, New York, N. Y. Filed Mar. 16, 1927, Serial No. 175,689. Renewed Mar. 22, 1930. 5 Claims. (Cl. 120—108.)



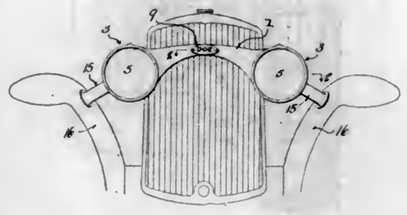
1. In a construction for covering the pen-nib end of a fountain pen, a suitable housing provided with a movable closure which opens upon removal of the pen-nib, means for moving said closure into closed position and said means being engaged and actuated by the insertion of the fountain pen in the housing to thereby close the closure.

1,780,547. TOP. MAURICE ALLAND, Atlantic City, N. J. Filed Oct. 11, 1928. Serial No. 311,831. 1 Claim. (Cl. 273—147.)



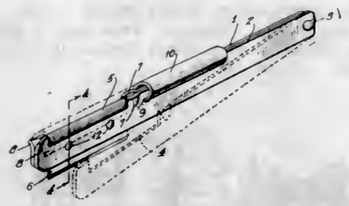
A top, comprising a cylindrical wall having spaced recesses and spanned by a bottom wall having a depending flattened projection and a convex inner surface, a transparent closure for the upper open portion of said top provided with an extension for manually setting the top in motion, means carried by said first-named wall and engaging said closure to prevent relative rotation therebetween, and a gravity actuated element upon said convex surfaces adapted to roll radially into one of said recesses when the top rests upon said flattened projection.

1,780,548. HEADLIGHT. ANDREW ASTRUP and WILLIAM ASTRUP, Racine, Wis. Filed Feb. 4, 1929. Serial No. 337,454. 1 Claim. (Cl. 240—7.1.)



In a headlight structure, a tubular body portion having its ends enlarged transversely to provide housings for headlights, brace members extending laterally from the headlight housings and arranged at an angle out of a parallel with the tubular portion for supporting the tubular portion and the housings in a substantially horizontal plane.

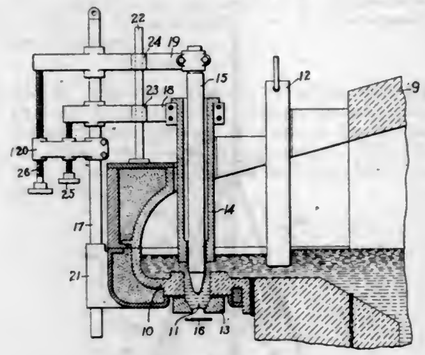
1,780,549. SAFETY-RAZOR-BLADE HOLDER. JOHN W. ASHWORTH, New York, N. Y., assignor to Ashworth Advertising Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 7, 1929. Serial No. 361,068. 6 Claims. (Cl. 30—25.)



1. In a safety razor blade holder, two strips pivoted to one another at one end of each strip and between the opposite end portions of which strips a safety razor blade is adapted to be clamped, with a sharp edge of the blade projecting beyond the edges of the strips, longitudinally spaced apart cams formed on the outer faces of both strips adjacent the blade, said cams sloping in the direction of the length of the strips and also transversely thereof, and a clamping member comprising a resilient sleeve having in the wall thereof a longitudinal slot of a width to permit the sleeve to straddle both strips and co-act, through longitudinal shifting of the sleeve, with the cams for the purpose of forcing the strips into tight clamping relation with respect to the interposed blade.

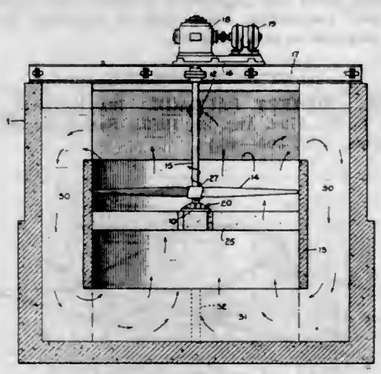
1,780,550. COMPOSITE PLUNGER FOR GLASS FEEDERS. WILLIAM T. BARKER, Jr., Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Connecticut. Filed Mar. 10, 1927. Serial No. 174,194. 20 Claims. (Cl. 49—55.)

7. In a glass feeder, a composite flow-controlling plunger comprising a tubular outer member and an inner core member adapted for adjustment longitudinally of each other, said core member fitting said tubular member to



permit relative longitudinal movement of said members but to substantially prevent passage of molten glass between said members.

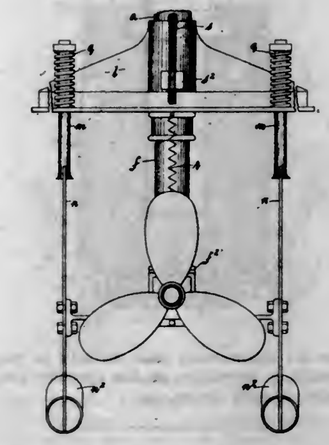
1,780,551. IMPELLER AGITATOR. ARTHUR W. BULL, Naugatuck, Conn., assignor to The Dorr Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 25, 1929. Serial No. 349,732. 8 Claims. (Cl. 259—97.)



1. In an agitator, the combination with a tank having an inlet and an outlet spaced from each other, a relatively large open ended draft tube communicating at its lower end with the lower part of said tank and extending upwardly therefrom, and means for producing a current through said draft tube, of means extending across the inlet end of the tube in the tank and extending to the bottom of the tank and completely across the same for preventing the passage of liquid from the inlet to the outlet across the inlet end of the tube, said means having supporting engagement with the draft tube.

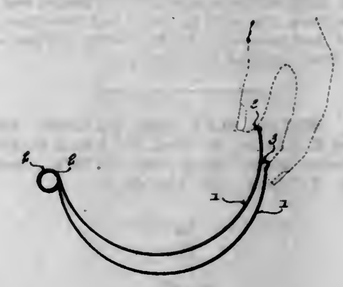
1,780,552. PROPELLER OF MOTOR-DRIVEN CANAL AND OTHER BOATS, RIVER BARGES, AND THE LIKE. THOMAS HERBERT COGGINS and ALBERT FARRINGTON, Aston, Birmingham, England. Filed Apr. 9, 1929, Serial No. 353,855, and in Great Britain Apr. 10, 1928. 5 Claims. (Cl. 115—41.)

1. A motor-driven propeller unit for boats, barges and the like, combining a pillar attachable to the end of a boat or barge, a frame mounted upon said pillar, a sleeve vertically slidable within the pillar and resiliently suspended from the frame, a propeller shaft mounted upon the lower end of the sleeve and fitted with a propeller, a



guard fixed to the sleeve and mounting of the propeller shaft, a vertical shaft through the sleeve to drive the propeller shaft, and means for driving the vertical shaft, substantially as described.

1,780,553. GUTTER CONSTRUCTION. PHILLIPP F. FLAGGE, Milwaukee, Wis. Filed Sept. 26, 1928. Serial No. 308,541. 1 Claim. (Cl. 108—28.)

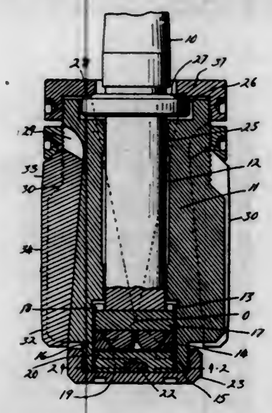


A gutter construction comprising a plurality of sections having channel-like body portions, each of said sections having beads on opposite longitudinal edges, the ends of both beads of one section interlocking with the corresponding beads of the next section, the interlocking beads along one edge of said sections being pivotally joined, whereby one section may be rocked into position after the engagement of the beads along one edge.

1,780,554. FLOATING REAMER. CARL W. FLOSS, Detroit, Mich. Filed Dec. 19, 1927. Serial No. 241,122. 4 Claims. (Cl. 279—16.)

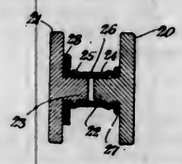
1. A reamer comprising a driving shank, a blade-carrying shell surrounding said shank, a socket member drivingly connected to said outer shell and mounted to permit lateral movement of the same relative to said shell, said

socket member and said shank being provided with co-operating surfaces adapted to form a universal connection



and means for maintaining said surfaces in engagement while permitting swivelling of the opposite end of said shell relative to said shank.

1,780,555. BUTTON. ERIC G. JOHNSON, Brooklyn, N. Y. Filed Mar. 3, 1930. Serial No. 432,651. 3 Claims. (Cl. 24—92.)



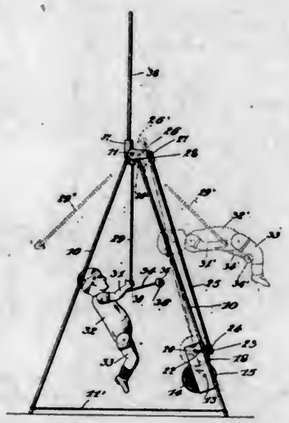
1. A button comprising two discs, an inner projection on each disc, an elastic sleeve, a bead at one end thereof, said sleeve adapted to engage with its beaded end one of said projections, and with its other end the other of said projections, and means for firmly holding the parts of the button in their engaged position.

1,780,556. METAL SLAT FOR WINDOW SHADES. WALLACE E. KALLIN, St. Paul, and LYSLE G. BOYNTON, Minneapolis, Minn. Filed Mar. 8, 1929. Serial No. 345,522. 2 Claims. (Cl. 156—31.)



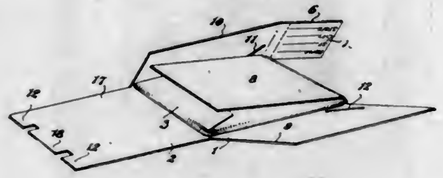
1. In a slat for window shades of the class described normally movable in a vertical plane from a roller mounting, the free edge of said shade adapted to be folded to provide a transverse upwardly directed flap parallel to the main shade; a metal strip member detachably engaging said flap comprising an elongated folded sheet metal strip opening downwardly and adapted to frictionally embrace said flap between its walls, the main shade arranged to be passed upwardly outside of one of its walls, an elongated shell member adapted to be telescoped longitudinally over said strip and the part of the shade exteriorly of said strip to frictionally embrace said strip member and shade part, said shell comprising an elongated folded sheet metal strip opening upwardly and the edges of said shell flanged inwardly.

1,780,557. MECHANICAL TOY. CHIHIRO KATAGIRI, Tokyo, Japan, assignor to Yoshio Katagiri, New York, N. Y. Filed Aug. 15, 1928. Serial No. 299,779. 3 Claims. (Cl. 46—40.)



1. In a mechanical toy, in combination, a support, a rock shaft carried by said support, means capable of imparting a rocking movement to said rock shaft, two spaced parallel L-shaped suspending arms fixedly attached to said shaft, a toy figure having pivotal arms each pivotally attached to an extended portion of one of said suspending arms and capable of complete revolution between said suspending arms, and an extended counter weight attached to said toy arms.

1,780,558. HOSIERY PACKAGE. IRA KAVANAU, New York, N. Y. Filed Aug. 21, 1929. Serial No. 387,315. 4 Claims. (Cl. 206—46.)

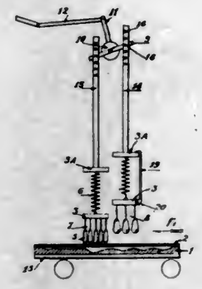


1. A blank for display purposes having a main body portion, side and end flaps, each of said side flaps having a slit therein, one of said end flaps being substantially of the same area as said body portion so as to entirely cover the back of said display blank when folded and tongues upon said last mentioned end flaps adapted to be inserted in said slits in said side flaps when said blank is in folded condition enclosing an article.

1,780,559. METHOD OF REDUCING THE ZINC-OXIDE CONTENT OF LITHOPONE. AXEL B. LAFTMAN, Bayonne, N. J., assignor, by mesne assignments, to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Delaware. Filed Dec. 22, 1926. Serial No. 156,520. 1 Claim. (Cl. 134—78.)

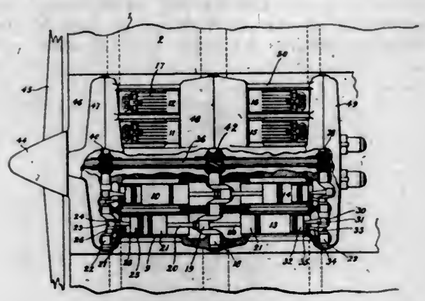
In processes of making lithopone involving the operations of treating an aqueous solution containing zinc sulfate with an aqueous solution containing barium sulfide, to the production of a slurry containing crude lithopone, and thereafter transforming any acetic acid soluble compounds incidentally precipitated with the lithopone slurry into water-soluble zinc compounds by a treatment with a predetermined small amount of an acid, the step which consists in adding to the acidified slurry containing the water-soluble zinc compounds an amount of barium sulfide calculated to react with said water-soluble zinc compounds to the production of an additional amount of crude lithopone.

1,780,560. PROCESS AND APPARATUS FOR REPRODUCING BY STAMPING. EDMOND OSCAR LANHOFFER, Poissy, France, assignor to Asbestos Panels Corporation, New York, N. Y., a Corporation. Filed Aug. 2, 1928, Serial No. 297,041, and in France Dec. 24, 1927. 15 Claims. (Cl. 101—32.)



1. A process of reproducing of the type described which comprises placing a sheet of malleable material on a matrix, dropping a series of flexibly suspended weights on said sheet continually and causing relative displacement between said matrix and said sheet of material during dropping of said weights.

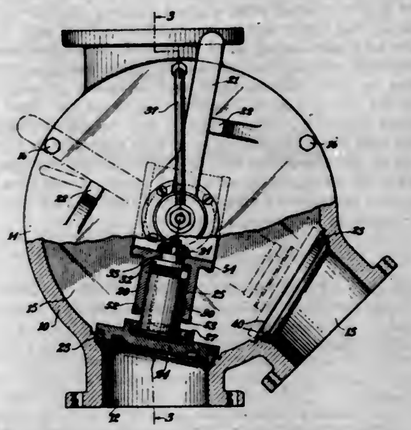
1,780,561. AEROPLANE. CONRAD H. MATTHIESSEN, Jr., New York, N. Y. Filed July 9, 1928. Serial No. 291,228. 17 Claims. (Cl. 244—25.)



2. In an aeroplane the combination with a wing and propeller of an aeroplane, of a slide valve engine, said engine being provided with cylinders, a crankshaft and a valve shaft, both of said shafts adapted to develop power, and a harmony drive shaft, geared to the crankshaft and a valve shaft, the propeller being secured to the harmony drive shaft, said engine cylinders extending at right angles to the propeller.

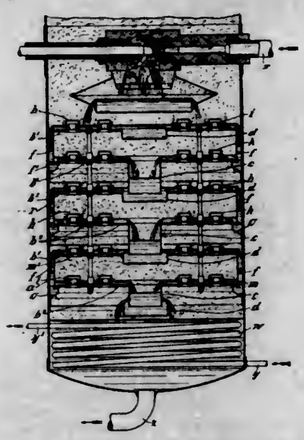
1,780,562. VALVE. HERBERT TOM MELLING, New York, N. Y. Filed June 11, 1927. Serial No. 198,030. 11 Claims. (Cl. 251—102.)

1. In a transport valve for pulverized material, the combination with a valve body which includes a substantially cylindrical wall having an inlet and at least two outlet openings therein, of a valve seat arranged in each opening, a pivotable valve guide in said body and wholly clear of said wall and including a trunnion carrying a radial sleeve, a valve reciprocally mounted in said guide and including a valve stem extending into said sleeve,



means for pivoting said guide to position the valve into operative relationship with a selected opening, and means for reciprocating said valve to raise and lower it with respect to the valve seat in said opening.

1,780,563. APPARATUS FOR SEPARATING LIQUIDS INTO CONSTITUENTS POSSESSING A LOW BOILING POINT AND CONSTITUENTS POSSESSING A HIGH BOILING POINT BY DISTILLATION AND RECTIFICATION. ADOLF MESSER, Frankfort-on-the-Main, Germany. Filed Nov. 9, 1925, Serial No. 67,848, and in Germany Nov. 15, 1924. 1 Claim. (Cl. 202—158.)



An apparatus for separating liquids into constituents possessing a low boiling point and constituents possessing a high boiling point by distillation and rectification, comprising in combination a vertical cylindrical casing, several separate vertical central tubes in said casing and open at both ends, a cup under the lower end of each central tube, a ring-shaped bottom plate fixed on the top end of each cup, a vertical overflow flange on the circumference of said bottom plate and extended in downward direction, a second ring-shaped bottom plate fixed on the top portion of each central tube at a certain distance from the top edge of said tube, a downwardly directed flange on the circumference of said upper bottom plate the lower end

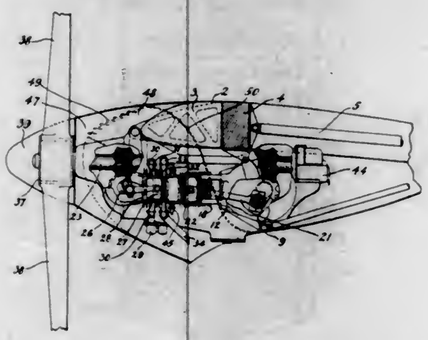
of said flange being bent outward and fixed on the inner surface of said casing and being situated a short distance underneath the edge of the downwardly directed extension of said vertical overflow flange of the lower bottom of the next higher central tube, a great number of vertical tubes open at the upper and lower end inserted in each bottom plate said tubes being all of the same size and arranged in concentric circles and all at the same uniform distance apart in each bottom plate and designed to collect the vapours which ascend from the liquid on the next lower bottom plate, and hoods higher and of greater diameter than said vapour tubes one hood over each vapour tube and fixed at the lower end on the corresponding bottom plate each hood having slots at a short distance above its lower end and designed to make the collected vapours flow into the liquid on said bottom plate.

1,780,564. ELECTRICAL CONDUCTOR. GEORGE C. OXER, New York, N. Y., assignor to American Brass Company, a Corporation of Connecticut. Filed Feb. 20, 1924. Serial No. 693,977. 16 Claims. (Cl. 173—13.)



1. An electrical conductor which comprises a substantially cylindrical shell of conducting material supported to withstand collapsing stresses by means of a plurality of separate metal structural members, said members defining spaces extending longitudinally through the shell.

1,780,565. AEROPLANE. ARNOLD G. PARKER, Flushing, N. J., assignor to Conrad H. Matthiessen, jr., New York, N. Y. Filed July 9, 1928. Serial No. 291,174. 11 Claims. (Cl. 244—25.)

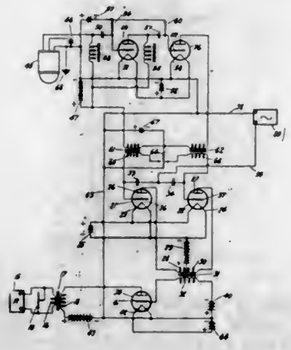


3. In an aeroplane the combination with a wing and propeller of an engine, whose cylinders lie in the line of flight, said engine being provided with a crankshaft, a shaft geared to the crankshaft, said last named shaft extending in the line of flight, the propeller being secured thereto, said cylinders being mounted at right angles to the propeller, cowling enclosing said cylinders and means for supplying cooling air transversely to said cylinders.

1,780,566. PROCESS OF COATING CARTRIDGES. JOHN DOUGLAS PEDERSEN, Springfield, Mass. Filed Jan. 27, 1928. Serial No. 250,090. 4 Claims. (Cl. 91—70.)

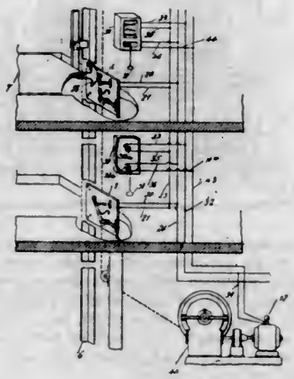
3. The process of affixing a coating film of hard wax such as ceresin to the surface of a metal cartridge case which consists in a substantially continuous travel of said case first through a heating chamber to preheat the same, then through a bath of a hot solution of said wax at approximately the same temperature as said preheated case, whereby said case receives a coating film thereon, and finally through a drying chamber of air to vaporize the solvent from said film under the accelerating effect of the preheated case to produce a hard dry coating film of wax on said case.

1,780,567. METHOD AND APPARATUS FOR RECORDING EXPLOSIVE SHOCKS. FRANK RIEBER, San Francisco, Calif. Filed June 7, 1927. Serial No. 197,212. 10 Claims. (Cl. 234—1.5.)



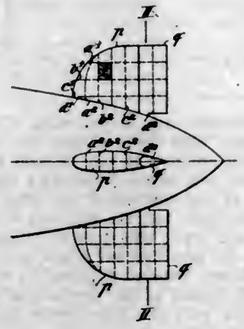
1. In a system for recording the time of arrival of mechanical vibrations, the process which comprises translating said vibrations into electrical impulses, combining said impulses with other electrical impulses of much higher frequency, and recording the resultant combination.

1,780,568. SAFETY DEVICE FOR ELEVATORS. NUNZIO SCARPA, New York, N. Y. Filed June 22, 1927. Serial No. 200,744. 3 Claims. (Cl. 177—336.)



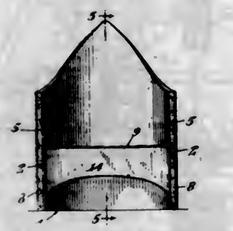
1. In a safety device for elevators, in combination with an elevator used in building construction work and controlled by an operator on the ground, a signal circuit, means in said circuit including switch means on each floor adjacent the elevator for informing the operator of the floor on which the elevator is desired for use, an indicating device at each floor adjacent the elevator for indicating when the elevator is in use, an electric circuit for said indicating devices and connected in parallel across said signal circuit, said devices being connected in multiple relation in said indicating circuit, a switch positioned adjacent each floor level and adjacent the path of the elevator at each floor, each of said switches being connected to said indicating circuit, and operative, when closed, to close said circuit, and means carried by the elevator and operable, when the elevator reaches the floor in accordance with said signal, to close said switch at that floor, thereby to actuate all said indicating devices.

1,780,569. FRAMEWORK STRUCTURE FOR THE STEERING GEAR OF AIRSHIPS. JOHANN SCHUETTE, Lichterfelde-Ost, near Berlin, Germany. Filed Nov. 2, 1929, Serial No. 404,319, and in Germany Nov. 8, 1928. 4 Claims. (Cl. 244—3.)



4. A controlling means for airships, consisting of a partitioned surface for the outside of the airship and having a cover comprising the outer skin of the surface thereby forming individual compartments with the partitions, said compartments preventing the tearing or injury of the skin from spreading beyond the partition of the compartment, in the cover of which the tear has occurred.

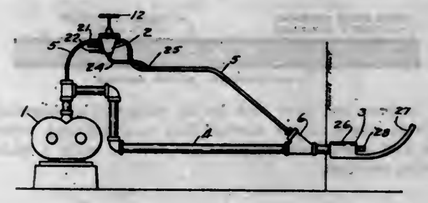
1,780,570. ARTICLE OF FURNITURE. NOBLE E. STEPHENS, Woodside, N. Y., assignor to The Staminart Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 12, 1928. Serial No. 269,318. 2 Claims. (Cl. 155—193.)



2. An article of furniture comprising inner and outer sheets of plywood, each formed to predetermined contours and disposed in spaced relation, and a cork-like material disposed between the exposed edge portions of said sheets, to integrate the same, the space between the body portions of said sheets being free from braces and filling material.

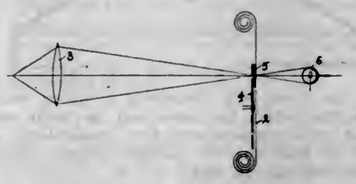
1,780,571. HYDROOIL BURNER. WILBUR TEALE and HERBERT F. MCLAUTHLIN, Seattle, Wash., assignors to Hydro-Oil Fire Corporation, Tacoma, Wash., a Corporation of Washington. Filed Jan. 19, 1926. Serial No. 82,191. 2 Claims. (Cl. 158—76.)

1. In an oil burning apparatus, a furnace, an air main leading to said furnace, a by-pass air pipe leading from said main and reentering said main ahead of the furnace, a triple valve in said by-pass pipe, an oil supply pipe and a water supply pipe leading into said by-pass pipe through



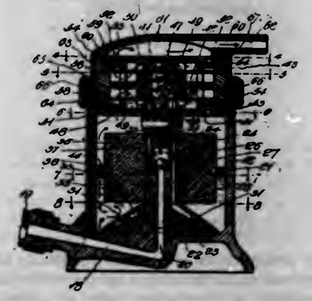
said valve whereby said valve controls the supply of oil and water to the air, and a mixing baffle in said main where the by-pass pipe reenters said main.

1,780,572. OPTICAL DEVICE FOR RADIO CINEMATOGRAPHIC TRANSMITTERS AND RECEIVERS. LÉON THURM, Paris, France. Filed July 14, 1928, Serial No. 292,811, and in France July 21, 1927. 4 Claims. (Cl. 178—6.)



1. A device of the character described comprising a film, a rotatable shutter having series of openings formed therein, said openings displaced in position with rotation of the shutter, a screen disposed between the shutter and the film and carrying a rectangular aperture of a length equal to the double of the corresponding dimension of the aperture in the shutter.

1,780,573. LATHER-FORMING DEVICE. ROBERT H. WAGER, Jersey City, N. J. Filed Mar. 10, 1927, Serial No. 174,320. Renewed Dec. 12, 1929. 21 Claims. (Cl. 299—83.)



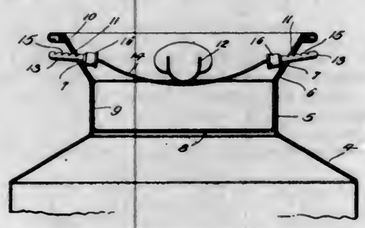
3. In a lather forming device, a container for a saponaceous liquid, said container having an open upper end, means for injecting a gas under pressure into the liquid containing portion of said container to agitate the saponaceous liquid and form soap bubbles, a bubble-converting unit fitting into the open upper end of said container and disposed above the normal liquid level, a lather-discharge cap over said unit and connected with the container, and a post in the container supporting the aforesaid unit, a portion of said post being disposed in the liquid containing portion of the container to hold a soap cake therein.

1,780,574. BOOT AND SHOE SOCK. LEWIS SILVANUS WILLIAMS, Romsey, England. Filed May 29, 1929, Serial No. 364,693, and in Great Britain Mar. 11, 1929. 3 Claims. (Cl. 36—43.)



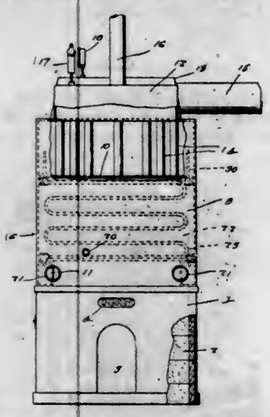
2. A boot and shoe sock lining composed of board-like material whose upper surface has a permanent rubbed gloss and whose under surface is treated with a waterproofing medium.

1,780,575. CAN-TOP LOCK. CLIFFORD E. ANDERSON, Brainerd, Minn. Filed July 1, 1929. Serial No. 375,306. 5 Claims. (Cl. 220—55.)



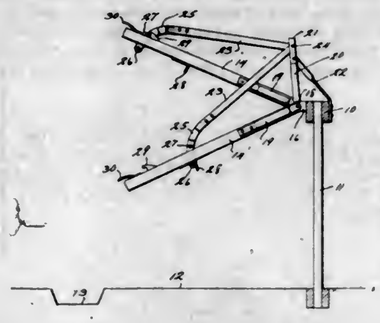
1. A can cover lock comprising a spring metal ring for reception within the cover, and two bolts connected with and projecting outwardly from diametrically opposed portions of said ring for passage through openings in the cover and the can neck.

1,780,576. HEATING BOILER. BARTON H. BRINEY, Indiana Harbor, Ind. Filed Apr. 7, 1927. Serial No. 181,768. 2 Claims. (Cl. 122—169.)



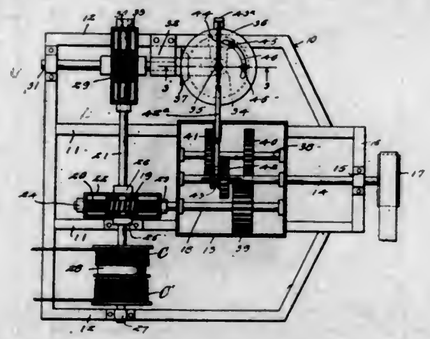
1. In a structure of the class described, a boiler embodying spaced walls forming a water containing and circulating jacket, a circulating tube of coiled formation supported in said boiler, a fitting on the intake end of the tube communicating with the water jacket, a discharge nozzle on the discharge end of the tube also communicating with said water jacket, removable angle irons bolted to the boiler and holding said fitting and nozzle respectively, whereby to permit bodily removal of the tube, said fitting comprising a hollow cast body, having a tube connection and a flattened end cooperable with the complemental flange of the adjacent angle iron, said discharge nozzle having a bevelled extremity and also having a flattened head portion cooperable with the complemental flange of the adjacent retaining iron.

1,780,577. VERTICALLY-ADJUSTABLE PARTITION BAR FOR STABLES. EARL CARMAN, Walton, N. Y. Filed Sept. 19, 1929. Serial No. 393,746. 4 Claims. (Cl. 119—15.)



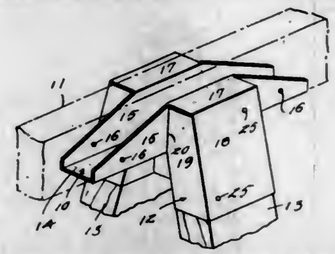
1. In combination with a cow stall, a partition bar pivotally engaged with the cow stall for vertical movement, and means whereby it may be held in a raised or lowered position, said means including a latch bar pivotally supported at one end and at its other end slidingly engaging the partition bar, the free end of the latch bar having upper and lower transversely extending members between which the partition bar slides, and the partition bar having a detent disposed adjacent its free end and a detent disposed inward of the first-named detent respectively engageable with the transversely extending members of the latch bar.

1,780,578. CONTROL MECHANISM FOR GRAIN-CAR-UNLOADING APPARATUS. ARLEY B. CHRISTY, Liberal, Kans., assignor of one-third to The Light Grain & Milling Company, a Copartnership consisting of C. M. Light, Mrs. C. M. Light, I. R. Salley, and Paul W. Light, Liberal, Kans., and one-third to Wilfred E. Bush, Liberal, Kans. Filed Mar. 23, 1929. Serial No. 349,466. 1 Claim. (Cl. 74—50.)



An automatic operating and control device for an unloading mechanism of the character described, comprising a drum shaft for operating an unloading device, means connected to the drum shaft and controllable for turning the shaft in opposite directions and including a pivoted control lever, a rotary gear having an arcuate slot therein, a pair of pins adjustably secured in the slot, a driving connection between said gear and said shaft, said lever having one end disposed in the path of said pins, a bracket disposed upon the opposite side of said gear from the lever, and a compression spring interposed between the first mentioned end of the lever and said bracket.

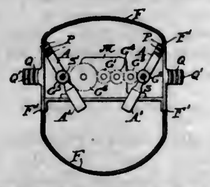
1,780,579. TRUSS BRACE. LILLIAN F. CROWLEY, Vincennes, Ind. Filed Apr. 21, 1928. Serial No. 271,875. 3 Claims. (Cl. 304—5.)



1. A truss brace comprising a trough, sockets secured to the sides of the trough and extending below the trough, flanges secured to the socket below the trough and at the vertical center of the trough and sockets, and means connecting the flanges together.

3. A truss brace comprising sockets each embodying an outer wall, side walls and a top wall, the top walls being connected at their outer edges to the upper edges of the outer walls, and the side walls having the upper portions of their inner edges arranged vertically and the lower portions of said edges inclined downwardly and outwardly, a trough arranged between said vertical edge portions and having the upper edges of its sides connected to the inner edges of the top walls, upper flanges secured to said vertical edge portions and to the sides of the trough, lower flanges secured to said inclined edge portions, and flanges secured to said lower flanges and arranged in overlapping relation and secured together, said last flanges being arranged at the vertical center of the trough and sockets.

1,780,580. IMPELLING DEVICE. JOHN H. DAVIS, New York, N. Y., assignor to Air Line Transportation Company, Philadelphia, Pa., a Corporation of Deleware. Filed June 21, 1928, Serial No. 287,126. Renewed Mar. 21, 1930. 14 Claims. (Cl. 244—16.)



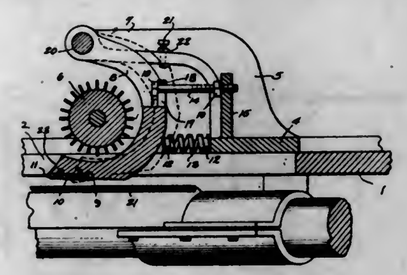
1. An impelling device, comprising a piston adapted to travel in an orbital path, and a cylinder in the path of said piston conforming in area therewith and adapted to check the air flow around the piston when passing therethrough causing a maximum resistance.

1,780,581. PENCIL HAVING A SHARPENING DEVICE FOR THE LEAD. ALFRED DILLIER, Aesch/Basel, Switzerland. Filed Mar. 28, 1929, Serial No. 350,653, and in Germany Apr. 21, 1928. 10 Claims. (Cl. 120—15.)



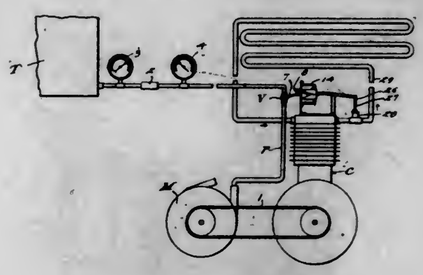
7. In a pencil of the type described in combination, a casing having a conical front part, sharpening means arranged in the front part, lead supporting means in the casing, coupling means between the front part and casing capable of being slid longitudinally and universally tilted to bring said sharpening means into sharpening engagement with the lead, and means to limit the longitudinal movement of said front part and coupling means.

1,780,582. FEED-ROLL MECHANISM FOR VENEER AND SHINGLE MACHINES. JAMES E. ECKERSLEY, Aberdeen, Wash., assignor of one-half to Alexander Polson, Hoquiam, Wash. Filed Aug. 20, 1929. Serial No. 387,162. 7 Claims. (Cl. 144—180.)



1. In a machine of the kind described, a bed plate having an opening therethrough to receive a block to be operated upon, means for feeding the block through said opening, to a cutter, spait bars pivotally mounted above and in front of the vertical plane of the longitudinal axis of the block feeding means.

1,780,583. AUTOMATIC PRESSURE-CONTROLLING APPARATUS. ERWIN KENT EVANS, Holland Patent, N. Y. Filed Sept. 8, 1928. Serial No. 304,664. 4 Claims. (Cl. 230—13.)

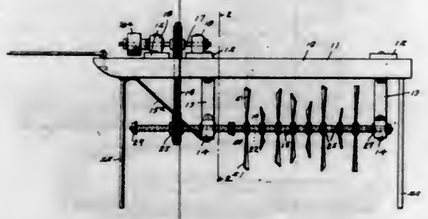


1. In combination with a pipe line and a controlling valve interposed therein, a yoke supported for swinging movement, means for operatively connecting said yoke with the valve to move the valve into open position when the yoke moves in one direction and to move the valve into closed position when said yoke moves in the opposite direction, an arm supported intermediate its ends for swinging movement, an expansible spring interposed between an end portion of said arm and the swinging yoke, and means for imparting swinging movement to the arm.

1,780,584. WATER MOTOR. FRED FACHNIE, Withrow, Wash. Filed Feb. 7, 1929. Serial No. 338,219. 1 Claim. (Cl. 170—133.)

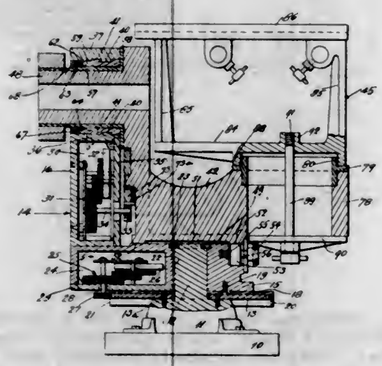
A water motor of the character described comprising in combination, a pair of pontoons, a pair of bearings dependingly secured to said pontoons and adapted to be positioned in a stream of running water, a shaft loosely mounted in said bearings, a sleeve positioned about said shaft and engaging said bearings, said sleeve comprising

a plurality of intermediate sections, a plurality of propeller blades loose mounted on said shaft and positioned between said intermediate sleeve sections, said shaft having threaded opposite end portions, a nut threadably positioned on each end of said shaft and adapted to force said sleeve sections inwardly whereby to cause said sleeve sections to rotate coactively with the rotation of said blades, a sprocket member mounted on one of said sleeve



sections, a driven member mounted on said pontoons and connected to said sprocket, flexible means connected to said sprocket on said sleeve and said driven member whereby to rotate said driven member cooperatively with the rotation of said sprocket, and guard means dependingly secured to the bottom of said pontoons adjacent each end and in spaced relation to each other whereby to hold said blades out of engagement with the bottom of the stream.

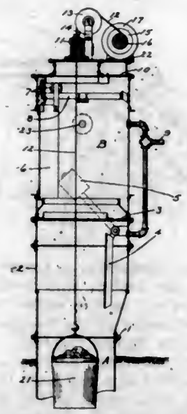
1,780,585. CAMERA MOUNTING. ARMIN FRIED, Los Angeles, Calif., assignor to William Fox Vaudeville Company, Los Angeles, Calif., a Corporation of New York. Filed Nov. 9, 1926. Serial No. 147,326. 2 Claims. (Cl. 248—47.)



2. In combination, a head mounted for rotation about a vertical axis, means for steadying such movement of the head, an adapter mounted in the head for rotation about a horizontal axis and adapted to support a camera, means in the head and operatively connected to the adapter to steady the movement of the adapter about said horizontal axis, and adjustable friction means between the adapter and head adapted to be operated to impose a variable resistance to the rotary movement of the adapter about said horizontal axis.

1,780,586. CAISSON HEAD. FREDERIC B. GOLDSBOROUGH, Croton-on-Hudson, N. Y. Filed Nov. 13, 1925. Serial No. 68,817. 7 Claims. (Cl. 61—83.)

1. In a hoisting and air-lock apparatus for caissons, the combination with a caisson of an air-lock head joined thereto, a door controlling communication between said caisson and said head, a hoisting means mounted on



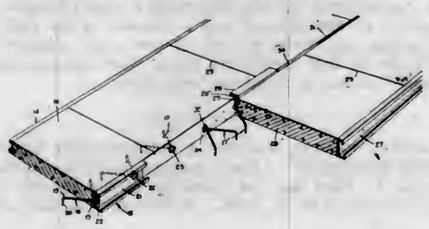
said head, a cable operable by said hoisting means passing through said head and into said caisson and a carrier suspended from said cable.

1,780,587. PLANTER ATTACHMENT. AUGUST W. GUSTAFSON, Hutto, Tex. Filed June 26, 1929. Serial No. 373,771. 3 Claims. (Cl. 97—56.)



1. An apparatus of the class described comprising a frame, wheels journaled on the frame, flaps secured to the periphery of the wheel, arms on the frame against which the flaps strike as they move downwardly and forwardly, said frame comprising an axle and a pair of radius rods secured thereto.

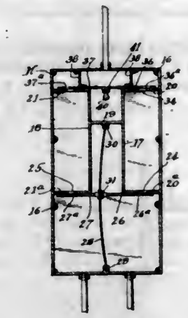
1,780,588. CONCRETE ROAD CONSTRUCTION. JOHN N. HELTZEL, Warren, Ohio. Filed Mar. 3, 1927. Serial No. 172,455. 13 Claims. (Cl. 94—13.)



1. Concrete slabs disposed edge to edge and anchor members embedded in said slabs and interengaging one another to tie the slabs together.

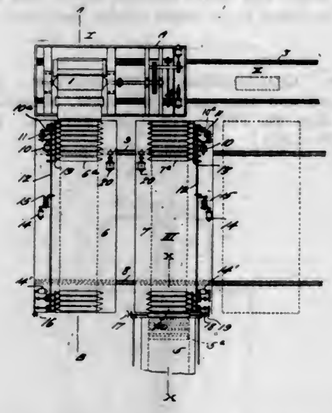
1,780,589. WATER-REGULATING DEVICE. WILLIAM R. HENDRIX, Pacific Palisades, Calif., assignor of one-half to Howard A. Hyde, Santa Monica, Calif. Filed Mar. 21, 1927. Serial No. 177,075. 3 Claims. (Cl. 277—46.)

2. A water regulating device comprising a container having an open side, a cover closing said open side, partitions within the container dividing the latter into chambers and provided with ports, a diaphragm mounted in the container, and slide valves operatively connected to the



diaphragm and having ports adapted to register with the first ports to control the passage of water through the first ports in accordance with the position of the diaphragm.

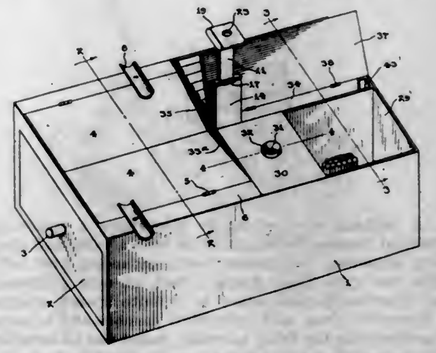
1,780,590. PROCESS AND APPARATUS FOR THE MANUFACTURE OF GLASS. CHARLES HEUZE, Auvelais, Belgium, assignor, by mesne assignments, to The American Bicheroux Company, a Corporation of Delaware. Filed June 19, 1928, Serial No. 286,684, and in Belgium Mar. 3, 1928. 9 Claims. (Cl. 49—3.)



1. The hereinbefore described process for the manufacture and annealing of glass sheets, comprising a forming step accomplished at high speed, an annealing step during which the sheet moves at a reduced speed, and an intermediate step during which the sheet is given an alternate fore and aft movement.

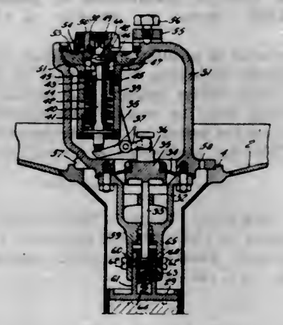
5. In an apparatus for the intermittent manufacture of glass sheets, the combination of a sheet forming machine, means to move the same transversely of its line of feed into two forming positions, a lehr provided with means for feeding the sheets therethrough at a speed less than the speed of sheet formation, a plurality of carriages, means for moving each carriage from one of the sheet forming positions into alignment with the lehr, a roller bed carried by each carriage, and means for driving the rollers of the said beds at speed of sheet formation and at the speed of lehr feed.

1,780,591. ASH-TRAY STRUCTURE. BUNPACHI IIZUKA, San Mateo, Calif. Original application filed Jan. 7, 1928, Serial No. 245,155. Divided and this application filed Dec. 6, 1929. Serial No. 412,154. 3 Claims. (Cl. 131—51.)



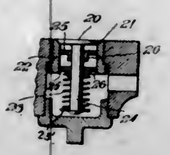
1. A device of the class described, including a casing provided with an ash tray composed of swinging sections hinged at their outer side edges, a vertically movable operating member normally arranged in an elevated position, and means carried by the said member for supporting the ash tray sections in closed position, said member when moved downwardly permitting the ash tray sections to open and discharge the contents of the ash tray.

1,780,592. SINK MINE. KARL OSKAR REINHOLD JOHANSSON, Appelviken, Sweden, assignor to Aktiebolaget Lindholmen-Motala, Motala Verkstad, Sweden, a Joint-Stock Company. Filed Mar. 29, 1928, Serial No. 265,674, and in Sweden Apr. 5, 1927. 11 Claims. (Cl. 102—3.)



1. A sink mine or depth bomb with hydrostatic control of the explosion depth and provided with a depth regulator, a detonating plunger and a pistol, characterized by the fact that the detonating plunger is locked to the depth regulator, prior to the mine being dropped or launched, in such a manner that the detonating plunger will thus be separated from the detonator, and in such a manner that the locking will be released at a certain depth on account of the water pressure, so that the detonating plunger will not only be brought into connection with the detonator, but will also release the latter so that it will cause explosion of the mine.

1,780,593. REFRIGERATING VALVE AND METHOD OF CONSTRUCTING THE SAME. ABRAHAM J. KUSEL, Baltimore, Md., assignor to Kulair Corporation, a Corporation of Delaware. Original application filed June 28, 1924, Serial No. 722,985. Divided and this application filed Apr. 26, 1926. Serial No. 104,855. 2 Claims. (Cl. 251—144.)



1. A unitary valve structure comprising a removable cylindrical member forming a valve seat, a valve and stem, spaced guideways for concentrically mounting said valve within the cylindrical member, both of said guideways being frictionally maintained in definite spaced relation but removable from said cylindrical member and a spring for maintaining the valve normally closed and in asembled operative position with respect to said cylindrical member.

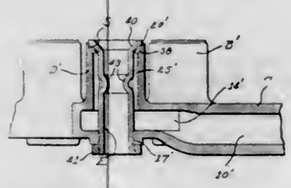
1,780,594. ACID TREATMENT OF METAL ARTICLES. RALPH E. LAWRENCE, Wickliffe, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Delaware. Filed Oct. 9, 1929. Serial No. 398,505. 4 Claims. (Cl. 148—8.)

1. In a process of pickling and cleaning metal articles which comprises subjecting said articles to an acid bath containing as the active pickling and cleaning ingredient a non-oxidizing acid, the step of inhibiting the action of said acid upon the metal by the incorporation into said acid of an inhibitor of the class of substances comprising thio-glycollic acid and its derivatives containing the radical $COOH—CH_2—S$.

1,780,595. INHIBITOR. RALPH E. LAWRENCE, Wickliffe, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Delaware. Filed Oct. 9, 1929. Serial No. 398,570. 4 Claims. (Cl. 148—8.)

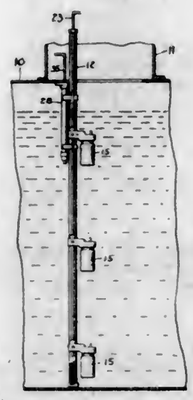
1. In a process of pickling and cleaning metal articles which comprises subjecting said articles to an acid bath containing as the active pickling and cleaning ingredient a non-oxidizing acid, the step of inhibiting the action of said acid upon the metal by the incorporation into the acid of an inhibitor comprising a mustard oil.

1,780,596. BURNER. JOHN L. MANDEVILLE, Arlington, N. J., assignor to The J. B. Colt Company, a Corporation of New Jersey. Filed Oct. 23, 1925. Serial No. 64,418. 12 Claims. (Cl. 158—16.)



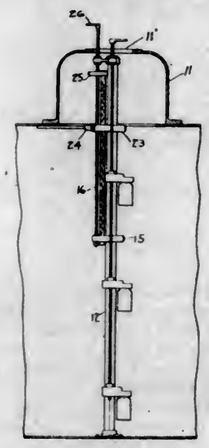
1. A burner comprising coaxial cylindrical members spaced apart to provide a gas passage therebetween and having opposed tapered seats adjacent the outlet end of said passage, one of said seats having an annular groove coaxial with said cylindrical members; and a separately formed spacer clamped between said seats having spaced recessed portions cooperating with said seats to provide outlet orifices for said passage.

1,780,597. LIQUID-TESTING DEVICE. JOHN M. MAYHALL and HOWARD C. MORRISON, Milwaukee, Wis. Filed Oct. 4, 1926. Serial No. 139,373. 7 Claims. (Cl. 137—18.)



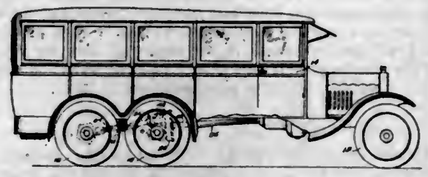
5. A device for testing liquid in tank cars and the like, comprising a staff supporting a plurality of spaced receptacles for taking samples of the bulk of liquid at different levels, and means movable on the staff for determining the ullage in the same testing operation.

1,780,598. LIQUID-MEASURING DEVICE. JOHN M. MAYHALL and HOWARD C. MORRISON, Milwaukee, Wis. Filed Apr. 29, 1927. Serial No. 187,518. 7 Claims. (Cl. 73—120.)



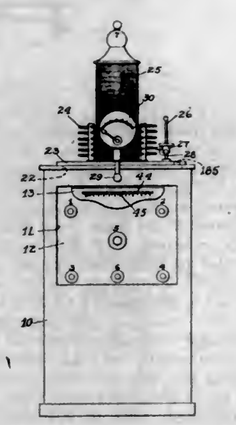
7. A measuring instrument for tank cars, comprising a staff for insertion through the dome of the tank, a domage and ullage indicating device slidable thereon, the said device comprising a tube and a scale associated therewith, means for positioning the tube with the scale at its zero line after insertion in the tank, and a valve for controlling the flow of liquid into the tube.

1,780,599. MOTOR VEHICLE. JOSEPH N. PARKER, Bedford, Va. Filed Mar. 5, 1926. Serial No. 92,466. 17 Claims. (Cl. 180—22.)



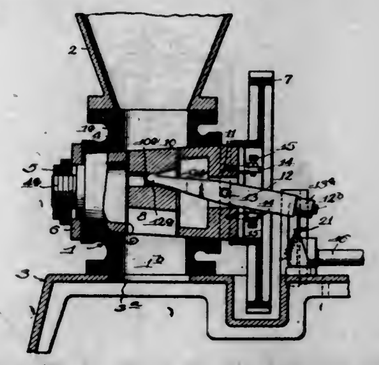
1. A motor vehicle comprising a frame, a pair of normally parallel axle housing, a pair of axles in each of said housings, traction wheels secured to the ends of said axles, means for driving said axles, means for transmitting the driving force of said wheels to said frame including a member for positively spacing said axle housings at their centers, a spring arranged adjacent each side of said frame, and connections between the ends of said spring and said housings and between the centers of said springs and said frame, two of the connections of each spring including shackles, the other connection of each spring including pivot means fixed against movement longitudinally with respect to the vehicle, said springs being operative to normally maintain said housings in parallel relationship.

1,780,600. ELECTROTHERAPEUTIC MACHINE. HERMAN P. PULLWITT, Oak Park, Ill., assignor to McIntosh Electrical Corporation, Chicago, Ill., a Corporation of Delaware. Filed Sept. 26, 1928. Serial No. 308,424. 20 Claims. (Cl. 174—177.)



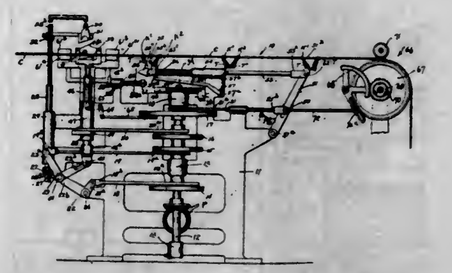
1. In an electro-therapeutic machine for producing high frequency electric currents, the combination of a source of high potential alternating current, a spark gap connected across the terminals of said source, a condenser connected with said terminals, and an inductance connected with said terminals to form with said spark gap and said condenser an oscillatory circuit, said inductance comprising a rotary core of insulating material, bearings supporting said core for rotation, a bare winding helically wound on said core with its turns separated from each other, a guide bar supported substantially parallel with said core, a slider on said guide bar, and an electric contact member carried by said slider and engaging said winding, said slider having lateral engagement with said winding moving said slider longitudinally of said guide bar by rotation of said core.

1,780,601. MEASURING DEVICE. WILLET B. RANNEY, Chicago, Ill., assignor to Wm. Wrigley Jr. Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 15, 1928. Serial No. 326,279. 2 Claims. (Cl. 221—102.)



1. A measuring device comprising a casing having intake and discharge passages for the material to be measured, a rotative body member mounted in said casing and having a cylinder open at both ends and extending diametrically thereof in the plane of said intake and discharge passages, a piston in said cylinder, a gear wheel fixed to said body member, a drive shaft, a pinion mounted on said drive shaft and meshing with said gear wheel, a lever extending axially of said body member and pivotally mounted intermediate its ends at one end thereof, one end of said lever being pivotally connected with said piston, a cam mounted on said drive shaft, and a lever actuated by said cam and adapted to engage the outer end of said first mentioned lever to impart a reciprocating motion to said piston as the opposite ends of said cylinder are brought into register with said intake and discharge passages.

1,780,602. TASSEL-MAKING ART. SAMUEL J. ROSENTHAL, Brooklyn, N. Y. Filed Nov. 12, 1928. Serial No. 318,684. 19 Claims. (Cl. 28—2.)

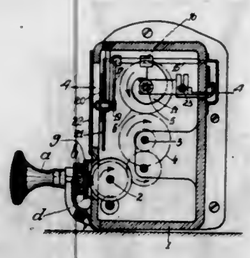


1. A machine for making knotted tassels comprising a feeding mechanism for advancing a cord through the machine a predetermined distance, and means for tying bunches of threads with the cord to form tassels spaced along the cord corresponding to said predetermined distance.

1,780,603. DEVICE FOR MECHANICALLY DETERMINING AND INDICATING THE DEGREE OF USAGE OF A MECHANISM. DESIDERIUS SCHATZ, Zittau, Germany. Filed Nov. 16, 1928, Serial No. 319,882, and in Germany May 28, 1925. 7 Claims. (Cl. 234—1.)

1. Device for indicating the output of machines wherein similar operations are repeated, comprising a device for

counting the actual operations and means for indicating the difference between the number of theoretically ob-

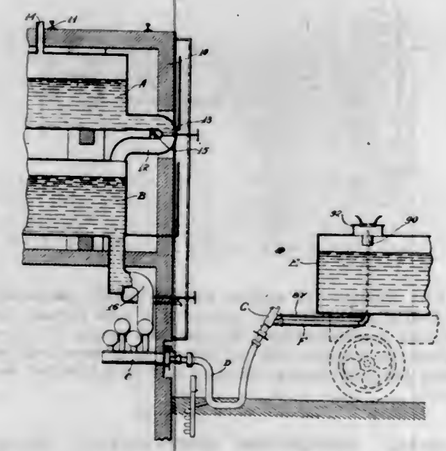


tainable operations and the number of operations actually produced in a predetermined period of time, said means being adapted to be driven by the counting device.

1,780,604. VULCANIZATION OF RUBBER. WINFIELD SCOTT, Nitro, W. Va., assignor to The Rubber Service Laboratories Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 28, 1927. Serial No. 236,373. 4 Claims. (Cl. 18—53.)

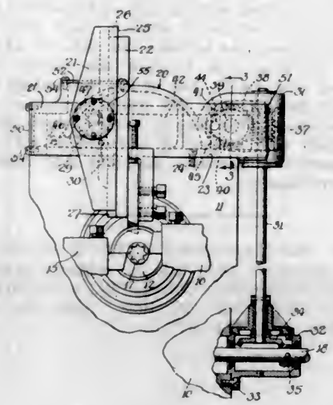
1. The process of manufacturing a vulcanized rubber product which comprises heating a mixture of rubber and sulphur in the presence of an accelerator comprising phenyl-p-piperidyl-phenyl guanidine.

1,780,605. AUTOMATIC TANK LOADER FOR FUEL TRUCKS. CARL E. SPINNEY, West Lafayette, Ind. Filed Oct. 1, 1927. Serial No. 223,313. 8 Claims. (Cl. 137—21.)



1. In combination, a fuel receiving tank having a discharge nozzle, a fuel discharge tube arranged for connection with the discharge nozzle of the receiving tank, a valve in said discharge nozzle, a valve associated with said discharge tube at that end connected with the discharge nozzle, means for interconnecting said valves, a spring associated with each valve for urging the valves into closed position, manually operable means for opening the valves, a dog for holding the valves in open position, and float operated means in the receiving tank for releasing the dog to permit the valves to close when the level of fuel therein reaches a predetermined height.

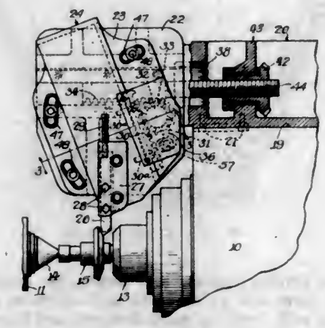
1,780,606. TOOL SUPPORT FOR LATHES. ERNEST J. SVENSON, Rockford, Ill., assignor to Sundstrand Machine Tool Co., Rockford, Ill., a Corporation of Illinois. Filed Mar. 28, 1929. Serial No. 350,476. 6 Claims. (Cl. 82—24.)



1. An auxiliary tool attachment for lathes comprising, in combination, a base adapted to be secured on the top of a lathe headstock and arranged to project over a work piece supported by the headstock spindle of the lathe, a tool slide mounted on said base for movement substantially radially toward and away from such a work piece, and means for actuating said slide comprising a shaft rotatably mounted in said base parallel to said spindle and having one end operatively geared to said slide to move the same when the shaft is rotated, a pinion on the other end of said shaft, a rack engaging said pinion mounted in said base for sliding movement transversely of said shaft, a substantially vertical drive shaft extending downwardly along the rear side of the headstock adapted for connection at its lower end with the lathe feed mechanism and carrying a worm at its upper end, a worm wheel meshing with said worm, and an arm rotating with said worm having at its outer end a pin and slot connection with said rack.

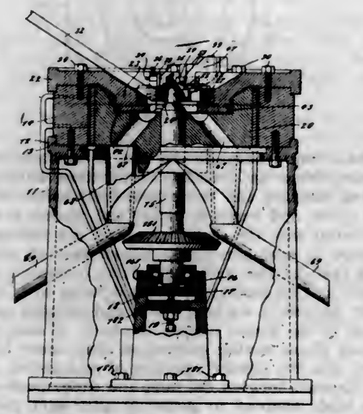
1,780,607. TOOL SUPPORT FOR LATHES. ERNEST J. SVENSON, Rockford, Ill., assignor to Sundstrand Machine Tool Co., Rockford, Ill., a Corporation of Illinois. Filed Mar. 28, 1929. Serial No. 350,477. 5 Claims. (Cl. 82—24.)

1. In a lathe having a bed with a headstock thereon, a work suporting spindle rotatably mounted in said headstock, and a reversible feed shaft mounted in and projecting transversely out of said bed, the combination of a tool carrying attachment comprising a base removably secured on the top of said headstock and extending over the work supporting end of the spindle, a tool slide reciprocably supported on the projecting portion of said base for movement radially of the work, means mounted in said base for moving said tool slide including a transverse shaft projecting rearwardly from said base beyond



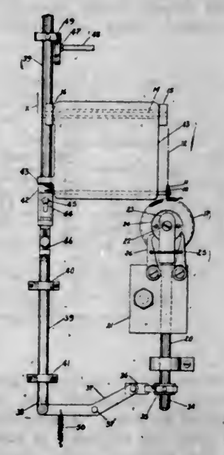
the rear side of the headstock, a pair of sprockets, one on each shaft positioned immediately adjacent to the side of the headstock, and an endless chain extending along the side of the headstock and connecting the two sprockets.

1,780,608. THREAD-ROLLING MACHINE. SWAN AUGUST SWANSON, New York, N. Y. Filed Aug. 29, 1928. Serial No. 302,725. 5 Claims. (Cl. 80—7.)



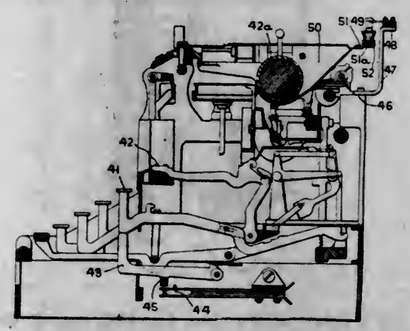
1. In a thread rolling machine, a rotatable shaft, a stationary bearing member provided with an inner cylindrical bearing surface, a rotatable bearing member secured to said shaft and provided with a cylindrical bearing surface adapted to engage the bearing surface of said stationary bearing member, a rotatable die secured to said shaft, a complementary stationary die having its working face located adjacent to said rotatable die, said rotatable bearing member being provided on its upper surface beneath the space between said dies with inclined grooves for the reception of screws from the machine, and openings communicating with the lowest portions of said grooves and extending through said rotatable bearing member for conducting the finished screws from the dies.

1,780,609. MACHINE FOR MAKING SPACED COILED FILAMENTS. STEN WADSTEN, Bloomfield, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed July 26, 1928. Serial No. 295,536. 5 Claims. (Cl. 140—64.)



1. A coil winding machine comprising means for moving a wire, mandrelless coil winding means and means for intermittently terminating the coiling operation to produce uncoiled portions of wire connecting coiled portions.

1,780,610. TYPEWRITER PUNCH WITH COLUMN CUT-OUT. HERMANN ADALBERT WEINLICH, Berlin, Germany, assignor to The Tabulating Machine Company, Endicott, N. Y., a Corporation of New Jersey. Filed July 1, 1927, Serial No. 202,809, and in Germany Nov. 11, 1926. 4 Claims. (Cl. 164—113.)

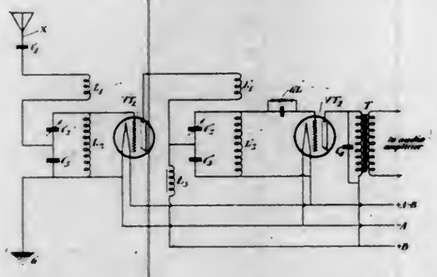


1. In combination, a typewriter with a movable carriage for selecting different printing positions, an electrically operated punch with selector circuits therefor controlled by the typewriter and a circuit controller common to said circuits having a stationary contact member and a conductor member movable with said carriage.

1,780,611. ELECTRICAL AMPLIFIER CIRCUITS. SIDNEY Y. WHITE, New York, N. Y., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a Corporation of Delaware. Filed Aug. 11, 1925. Serial No. 49,521. 13 Claims. (Cl. 179—171.)

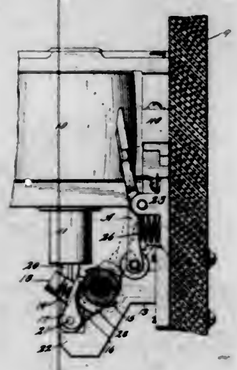
2. An electrical amplifying system including a three electrode vacuum tube, an adjustable period circuit con-

nected to the input electrodes of said tube, an output circuit, a responsive device, and means for controlling the reaction of said output circuit and abstraction of energy therefrom for said responsive device over a wide range of frequencies that a predetermined effect in said responsive device with frequency is obtained, including a circuit coupled to said output circuit adapted to be adjusted in period in consonance with said adjustable period input



circuit, and across which second adjustable circuit said responsive device is connected, said coupling including a pair of coupling elements transferring energy in phase, one of which couplings increases in effect with frequency increase and the other of which couplings decreases in effect with frequency increase, the relative values of said couplings being chosen to give the said predetermined effect over a wide range of frequencies.

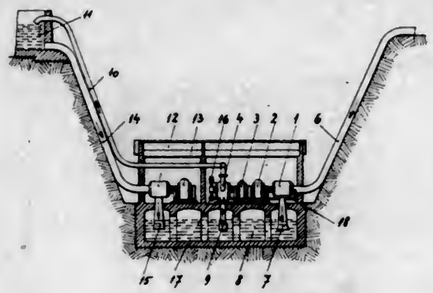
1,780,612. MOTOR-CONTROLLING DEVICE. CARL J. ANDERSON, Chicago, Ill. Filed June 29, 1928. Serial No. 289,232. 2 Claims. (Cl. 200—105.)



1. In a device of the class described, contact closers, springs serving to move said contact closers to contact closing positions, a shaft provided with electrical connections for advancing it step by step, and cams on said shaft and serving to open said contact closers by depressing the springs thereof, said cams having their surfaces so constructed that the tension of said springs operates thru the cams and the shaft to prevent the parts over-running at the termination of each step of the step by step movement.

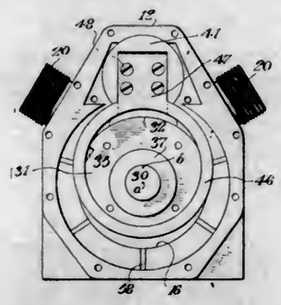
1,780,613. REGULATING DEVICE FOR LIQUID COUPLINGS. GUSTAV BAUER and CARL SCHMIESKE, Hamburg, Germany. Filed Nov. 5, 1926. Serial No. 146,551. 3 Claims. (Cl. 60—54.)

1. A regulating device for liquid couplings, especially for driving storing pumps of hydro-electric power plants, comprising, in combination with the main driving engine of the plant, the liquid coupling and inlet and outlet slide valves thereof: a governor dependent upon the load on



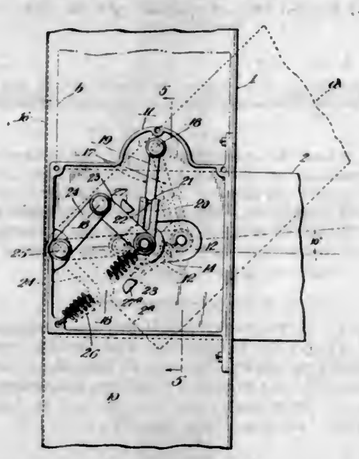
said main driving engine, and means for transmitting movement from said governor to said valves so as to fill and empty said coupling upon decrease and increase, respectively, of the load of said engine.

1,780,614. PUMP. CALVIN M. BOLSTER, Lakehurst, N. J. Filed Dec, 23, 1927. Serial No. 242,079. 14 Claims. (Cl. 103—123.)



1. In a rotary pump or the like, in combination, a casing comprising an intermediate portion having a cylindrical chamber and circumferentially spaced inlet and outlet ports, and heads at either end having shaft bearings coaxial with the chamber, a rotor comprising a shaft journaled in said bearings, a piston fast on said shaft within said chamber having a portion concentric with the chamber and an eccentric portion defining with the walls of said chamber a working space, and cidcular end plates secured to the piston closing the ends of said chamber, said end plates having grooves on their inner faces concentric with the eccentric portion of said piston, an abutment disposed between the inlet and outlet ports comprising a blade adapted to cooperate with said piston and end portions fitting in said rotor plate grooves for imparting movement to said abutment, an oscillatory block slidably receiving said abutment, packing plates fixed to said casing bearing along an arc at one edge thereof upon the circumference of said rotor plates and on a face thereof against the ends of said abutment and oscillating block for preventing leakage, longitudinal packing strips on said abutment blade adapted to bear upon the eccentric portion of said piston, and other longitudinal packing strips in the casing about the cylindrical chamber thereof adapted to bear upon the concentric portion of said piston, said abutment packing strips being provided with end projections disposed within the grooves of the rotor end plates, and said casing packing strips being provided with end projections bearing upon the outer surface of said rotor plates for retaining said packing strips in correct position.

1,780,615. HINGE MEANS FOR LAVATORY BOWLS. CLIFFORD E. CARY, Chicago, Ill. Filed Apr. 24, 1929. Serial No. 357,618. 7 Claims. (Cl. 4—169.)

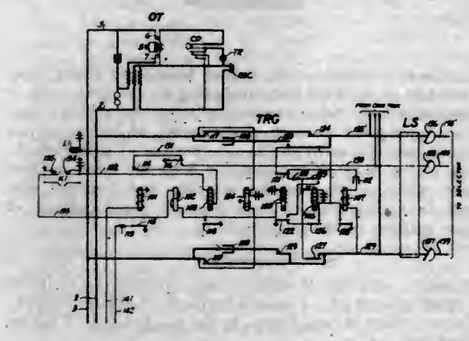


1. In a lavatory fixture, a bowl, a cabinet therefor and having a rear wall, and means providing a hinge mounting for the bowl in the cabinet, said means including stationary slots adjacent the sides of the bowl permitting bodily movement of the bowl as it is swung into and out of the cabinet so that the inner end of the bowl will clear said rear wall in the swinging of the bowl, said slots being pitched so that gravity will aid in the returning of the bowl to the inner ends of the slots as the bowl reaches its terminal positions.

1,780,616. COLORED AND TINTED PARCHMENT PAPER AND THE LIKE AND PROCESS FOR THE MANUFACTURE OF THE SAME. ROBERT IRVING COWEN, New York, N. Y. Filed Nov. 19, 1925. Serial No. 70,196. 13 Claims. (Cl. 8—5.)

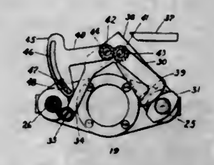
1. In the art of manufacturing colored or tinted parchmentized paper, the process of passing the formed paper through an acid bath in which is dissolved dyestuff, and subsequently passing the paper so treated through a water bath to dissolve or wash out the acid still present.

1,780,617. TELEPHONE SYSTEM. THOMAS F. CROCKER, Chicago, Ill., assignor to Reserve Holding Company, Kansas City, Mo., a Corporation of Delaware. Filed Jan. 28, 1929. Serial No. 335,443. 10 Claims. (Cl. 179—5.)



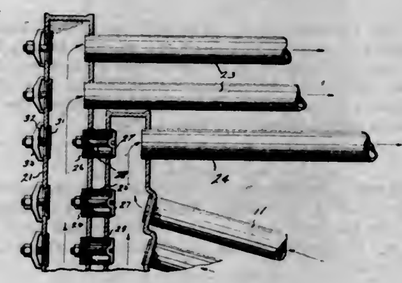
1. In a telephone system, an operator's telephone, a first trunk and a second trunk, means for extending a connection from said telephone over either of said trunks, a battery feeding bridge normally connected to said telephone, means responsive to the extension of a connection over said first trunk for disconnecting said bridge, and means responsive to the extension of a connection over said second trunk for releasing sand first connection and for re-connecting said bridge.

1,780,618. BULB-CULLET-CENTERING DEVICE. CHRISTIAN FLEISCHMANN, Bloomfield, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Sept. 11, 1928. Serial No. 305,282. 8 Claims. (Cl. 176—3.)



1. A rotatable sealing-in head comprising a seat for supporting a lamp bulb, movable members for engaging a bulb neck, one of said members having an arcuate slot and means in said slot operating in conjunction with one of said members to maintain said members engaged with said neck.

1,780,619. STEAM BOILER. HOWARD J. KERR, Westfield, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Apr. 15, 1925, Serial No. 23,177. Renewed Mar. 29, 1930. 9 Claims. (Cl. 122—360.)

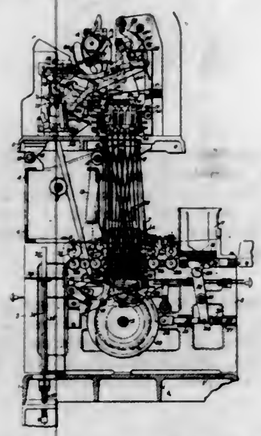


1. A steam boiler having a steam and water drum, substantially horizontal water tubes divided into a plurality of banks, a downtake water chamber connected to one end of said tubes and to said drum, a main uptake water chamber connected to the bank of tubes nearest the furnace, tubes connecting the upper end of said main uptake chamber with said drum, an auxiliary uptake water chamber connected to the tubes of an upper bank, tubes connecting the upper end of said auxiliary uptake chamber with said drum, said auxiliary uptake chamber being substantially parallel with the upper part of said main uptake chamber and separated therefrom and disposed in the rear thereof, the upper part of said main uptake chamber and said auxiliary uptake chamber having openings in the walls thereof in alignment with each other and opposite each of the tubes connected to said second auxiliary chamber, whereby access to the interior of each tube may be had from the exterior of the boiler, nipples extending through said openings and connecting said main and auxiliary chambers, and closures for said openings.

1,780,620. DOUBLE-SUPERPHOSPHATE MANUFACTURE. WILLIAM BARKLEY KING, Columbia, Tenn., assignor to Armour Fertilizer Works, Chicago, Ill., a Corporation of New Jersey. Filed Jan. 6, 1930. Serial No. 418,999. 5 Claims. (Cl. 71—7.)

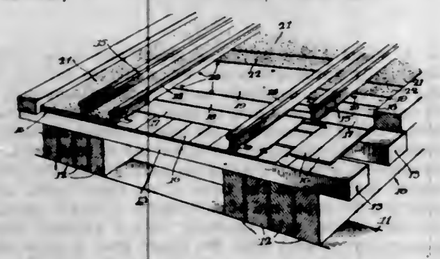
1. The process of producing double superphosphate, consisting in forming a slurry of ground phosphate-rock and dilute phosphoric acid solution, concentrating said slurry by heat to a thick liquid only, allowing such liquid to set to a solid condition after termination of said heating action, and drying said solid material.

1,780,621. TABULATING MACHINE. WILLIAM W. LASKER, Brooklyn, N. Y., assignor to Remington Rand Incorporated, New York, N. Y., a Corporation of Delaware. Filed Dec. 6, 1929. Serial No. 412,262. 14 Claims. (Cl. 235—61.)



4. In a tabulator, a registering mechanism having a plurality of stops, said stops being movable longitudinally and laterally, analyzing means having a plurality of analyzing members, and means controlled by one of said analyzing members for determining whether the stops shall be moved laterally or not.

1,780,622. PROTECTIVE COVERING FOR BRIDGES. WILLIAM H. LAWRENCE, New York, N. Y., assignor to Johns-Manville Corp., a Corporation of New York. Filed Apr. 18, 1927. Serial No. 184,497. 3 Claims. (Cl. 14—73.)



3. A weather and fire protective covering for railway bridges having their wooden members impregnated with a chemical for preventing decay of said members, comprising a sheet of asbestos paper laid over said members, a plurality of layers of felt impregnated with bituminous material laid over said sheet, a layer of bituminous material over each layer of felt, and a layer of granules imbedded in each of said last-named layers, all loose granules being removed except from the uppermost layer.

1,780,623. PROCESS FOR MANUFACTURING BUILDING MATERIAL OF VARYING DENSITIES. EMIL C. LOETSCHER, Dubuque, Iowa. Filed July 26, 1929. Serial No. 381,197. 6 Claims. (Cl. 92—54.)



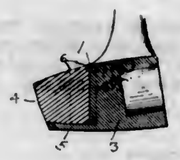
1. A process for manufacturing articles of fibrous material consisting of molding a mat of the fibre pulp with predetermined portions of substantially increased thickness, and compressing the mat to the ultimate thickness of the article to be made, but with the initially thicker portions compressed to a substantially greater density than the initially thinner portions.

1,780,624. DEVICE TO INSURE THE BURSTING OF ALL KINDS OF BOMBS IN WHATEVER POSITION OF IMPACT OR FALL. ETTORE MANZOLINI, VINCENZO CAPOBIANCO, and FIORENZO SCARPONI, Rome, Italy. Filed Nov. 21, 1928, Serial No. 320,796, and in Italy Nov. 30, 1927. 4 Claims. (Cl. 102—29.)



1. In bombs of all kinds, the combination of a capsule for igniting the fuse, a striker adapted to act on said capsule, a wall carrying said striker and being movable in axial direction against said capsule and confining a compartment, and a mass of material flowing in the same way as a fluid mass filling said compartment and by exerting a pressure upon said movable wall ensuring the bursting of the bomb in any position of impact or fall.

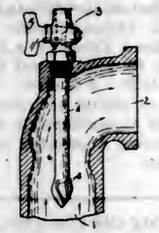
1,780,625. GOLF-CLUB HEAD. GEORGE W. MATTERN, Dayton, Ohio, assignor to The Crawford, McGregor and Canby Company, Dayton, Ohio, a Corporation of Ohio. Filed Apr. 17, 1924. Serial No. 707,121. 3 Claims. (Cl. 273—77.)



1. In a golf club of the driver, brassie or spoon type, a non-hollow metallic body including an integral neck or hosel, said body being continuous from the striking face of the club head to a line rearwardly of the hosel, an angular recess formed in the rear portion of said metallic body and a body of non-metallic material fitted in said recess forming the back of the club and top and side surfaces conforming to and forming continuations of those surfaces of the metallic body.

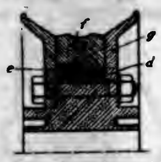
1,780,626. FUEL MIXER FOR INTERNAL-COMBUSTION ENGINES. JAMES MCINTOSH, Cleveland Heights, Ohio. Filed May 2, 1928. Serial No. 274,444. 1 Claim. (Cl. 48—180.)

The combination with a fuel mixture pipe having a constriction therein, of a nozzle projecting into the passage within said constriction with outlets directed against the flow of mixture in the pipe, said nozzle having gas



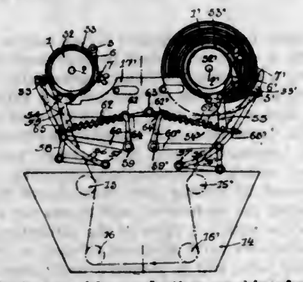
and air inlets, and a valve controlling said inlets to vary the pressure of the gas and air supply thereto the nozzle having a bulb at the end with angular slots therein.

1,780,627. RUNNING WHEEL OF PASSENGER AERIAL CABLEWAYS. MAX MÜLLER, Leipzig, Germany, assignor to Firm Adolf Bleichert & Co., A. G., Leipzig, Germany. Filed Feb. 21, 1930, Serial No. 430,211, and in Germany Apr. 4, 1929. 6 Claims. (Cl. 295—31.)



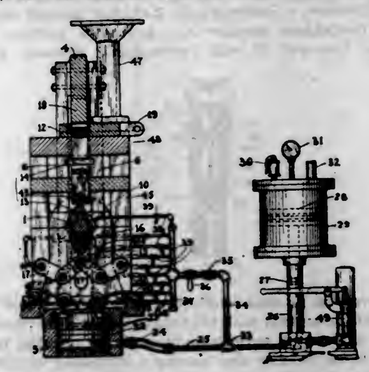
1. In a carriage roller for wire cableways, the combination with the outer rim, of a rubber ring made of different shape and dimensions as the space between the sides of said rim adapted to receive said rubber ring.

1,780,628. DYEING MACHINE. HANS NABHOLZ, Essonnes, France. Filed Dec. 11, 1925, Serial No. 74,692, and in Germany Dec. 24, 1924. 7 Claims. (Cl. 242—55.)



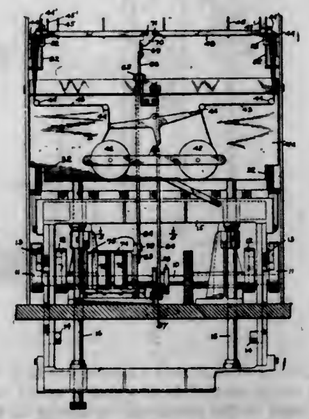
5. In a dyeing machine and other machine for the treatment of fabric, the combination of two rollers adapted to work alternately as winding and unwinding rollers, a main driving shaft, two disc and wheel clutching and changing gears adapted to connect and disconnect said rollers and said main shaft and to gradually modify the speed of rotation of said rollers when in the connecting position, connecting means between the two clutching and speed changing gears whereby at least one gear is in the disconnecting position, two brakes for the rollers, connecting means between the two brakes whereby at least one brake is in the inoperative position, a swinging member for each roller pivotally mounted thereon and adapted to engage inside the innermost fabric layer, a main control member adapted to be engaged at either end by the corresponding swinging member when the latter is free to swing and also adapted to bring into the operative position the clutching and speed changing gear of one roller and the brake of the other roller and two radially movable contact members bearing upon the fabric on each roller and adapted each to control its corresponding clutching and speed changing gear and its corresponding brake.

1,780,629. LUBRICATING DEVICE. CHARLES D. OTTO, New York, N. Y. Filed Apr. 22, 1926. Serial No. 103,879. 14 Claims. (Cl. 25—85.)



7. In combination, a cylinder, a piston, a substantially incompressible fluid medium in said cylinder, means for applying a pressure to said piston, means for limiting the maximum pressure developed in said cylinder, means for feeding the lubricating medium under a pressure responsive to the pressure developed in said cylinder.

1,780,630. RIBBON-SUPPORTING MECHANISM. RALPH E. PAGE, Binghamton, N. Y., assignor to The Tabulating Machine Company, Endicott, N. Y., a Corporation of New Jersey. Filed Oct. 1, 1927. Serial No. 223,314. 9 Claims. (Cl. 197—151.)

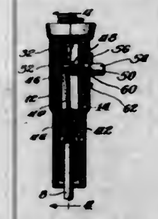


1. In combination, a printing device comprising a plurality of printing elements located side by side and movable to a plurality of printing positions, means for supporting ribbon guides and supports in the path of movement of said printing elements and means for preventing movement of those printing elements in whose path the ribbon guides and supports are placed.

1,780,631. COMBINATION THERMOSTATIC SWITCH AND PLUG CONNECTER. PETER A. PETERSON, Chicago, Ill. Filed Apr. 25, 1928. Serial No. 272,616. 2 Claims. (Cl. 200—139.)

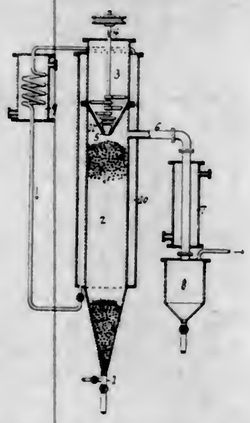
1. In an electric plug socket connecter for electric heating appliances, the combination of a pair of insulating body members secured together, a pair of sockets adapted to receive the connection prongs of a heating appliance and transmit electric current thereto and heat therefrom, each of said sockets being formed in two halves, a bimetallic thermostatic element having one end positioned be-

tween the ends of the halves of one of said sockets and extending longitudinally of said body members, a screw for fastening said socket halves and said element to one of said members, a substantially Z-shaped support secured to said last-named member and having a portion overlying the free end of said thermostatic element, and a



screw threaded in said portion of said support and having a point for contact with the free end of said thermostatic element, said screw extending through an opening in the opposite body member and having a manually engageable finger piece for adjustment of the position of the contact point thereof.

1,780,632. OXIDATION OF FATS, WAXES, AND RESINS. WILHELM PUNGS, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie (Aktiengesellschaft), Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Oct. 19, 1925, Serial No. 63,556, and in Germany Oct. 22, 1924. 11 Claims. (Cl. 87—12.)



2. The process of oxidizing a mixture of fats, oils, waxes and resins which comprises charging a retort with bodies which are inert to the substances occurring in the process and which are excellent conductors of heat, feeding said mixture into said retort to a point below the top of said inert charge whereby when said mixture swells during the reaction its increase in volume will be in contact with said inert bodies, and passing a strong current of air through said mixture at a temperature between about 160 and 170° C. whereby oxidation is effected.

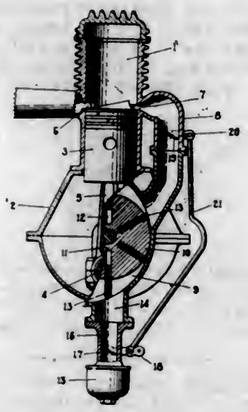
1,780,633. PRODUCTION OF WAX COMPOSITIONS. WILHELM PUNGS, Ludwigshafen-on-the-Rhine, and MICHAEL JAHRSTORFER, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Jan. 5, 1929, Serial No. 330,612, and in Germany Jan. 24, 1928. 11 Claims. (Cl. 87—19.)

1. A composition of matter comprising a bleached Montan wax comprising esters and salts of the acids contained in the said wax, the salts being present in an amount of less than 25 per cent by weight of the said wax.

1,780,634. LIQUID SUPERSATURATED SOLUTION OF THIOCARBANILIDE. PHILIPP SIEDLER and AUGUST MOELLER, Frankfort-on-the-Main-Griesheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed May 16, 1929, Serial No. 363,705, and in Germany Jan. 28, 1928. 5 Claims. (Cl. 252—6.)

1. A composition of matter comprising a liquid supersaturated solution of thiocarbanilide in technically pure toluidine and containing a quantity ranging from 0.3% to about 20% of resin.

1,780,635. CHOKE MEANS FOR TWO-CYCLE ENGINES. OWEN H. SPENCER, Indianapolis, Ind. Filed Mar. 21, 1929. Serial No. 348,005. 2 Claims. (Cl. 123—73.)



1. In a choke valve mechanism for an engine, the combination with a cylinder, a fuel passage connecting with said cylinder, a charging mechanism connecting with said fuel passage, a carbureter connecting with said charging mechanism, and a valve associated with said carbureter between said carbureter and charging mechanism, of a choke valve intersecting said fuel passage between said cylinder and charging mechanism, whereby the back pressure created by closing said choke valve will not be directed against the carbureter, and means for connecting said choke valve with the valve of the carbureter, whereby when the carbureter valve is moved to open or closed position the choke valve will be simultaneously moved to open or closed position.

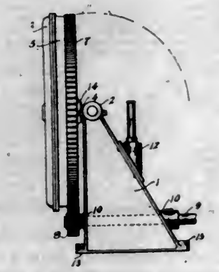
1,780,636. SUBSTITUTED GUANIDINE-ALDEHYDE CONDENSATION PRODUCT. CHARLES M. STINE, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 8, 1925. Serial No. 61,157. 1 Claim. (Cl. 260—3.)

An infusible synthetic resin comprising a polymethylol-substituted-guanidine.

1,780,637. CUTLERY-CLEANING DEVICE. HARRY WILLIAMS, Vancouver, British Columbia, Canada. Filed Dec. 12, 1928. Serial No. 325,474. 2 Claims. (Cl. 141—1.)

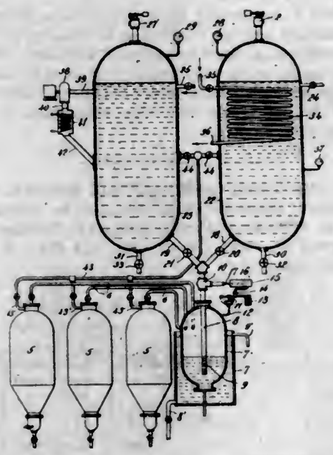
2. In a cutlery cleaning device, the combination of a frame, a trunnioned shaft mounted therein, provided with an extension shaft, a cylindrical container rotatably mounted upon said extension shaft, said container being provided with an annular ring having radially disposed

cutlery receiving slots, said ring being so positioned as to provide an annular fluid passage between the ring and container wall, adapted to receive the extremities of cutlery when positioned in aforesaid radially disposed slots, the aforesaid fluid passage being adapted to receive a predetermined amount of cleaning fluid in combination with



shot, sealing cover means on said container, said container having a gear cast integral with the outer periphery thereof, a pinion gear, said first gear being adapted for engagement with said pinion gear, when aforesaid container is rotated to extend in a vertical plane, and a drive shaft on which said pinion gear is mounted to impart rotary motion to the aforesaid container.

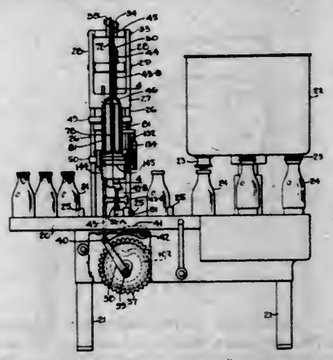
1,780,638. PRODUCTION OF PAPER PULP. ROBERT B. WOLF, New York, N. Y. Filed Dec. 23, 1929. Serial No. 416,014. 20 Claims. (Cl. 92—11.)



1. The method of recovering acid in the sulphite pulp process which comprises maintaining a constant pressure in the relief line from the digester, cooling the gases and liquids and then discharging the gases and liquids from the relief line into an acid absorbing medium.

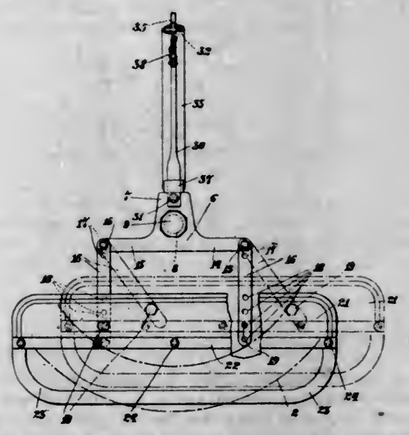
1,780,639. BOTTLE-CAPPING MACHINE. EARL S. BURDICK, Milwaukie, LEWIS B. BYRNE, Portland, and FRANCIS W. CHAUSSE, Salem, Oreg. Filed Dec. 28, 1926. Serial No. 157,451. 7 Claims. (Cl. 226—85.)

1. In a bottle capping machine, the combination of an upright frame; a rubber lined cup slidably mounted on said frame; a presser foot in said cup; a foil feed mechanism adapted to place foil under cup; a disk feed mechanism for feeding caps into said cup above said foil and under said presser foot; means for moving said presser foot downwardly against said cap to force same with said foil into a bottle neck recess; means for moving said rubber cup downwardly to fold the projecting edges of



said foil below the bottle mouth; and means for contracting said rubber cup around said folded foil consisting of a pump for forcing a fluid against the outside of said cup lining.

1,780,640. LATERAL SPLASH GUARD FOR ROAD VEHICLES. WILLIAM BURNS, Glasgow, Scotland. Filed May 15, 1929, Serial No. 363,393, and in Great Britain Apr. 19, 1929. 2 Claims. (Cl. 280—156.)

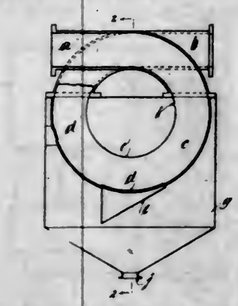


1. A lateral splash guard for a vehicle wheel comprising an axial lateral projection fixed on the wheel, a sleeve rotatably mounted thereon by means of an internal ball bearing, a screw plug for insertion into the sleeve to totally enclose the ball bearing and to form a grease box, a frame mounted on the sleeve and carrying a splash screen, a removable cap adapted to be secured over the end of the sleeve and forming a flange for retaining the frame on the sleeve, and a connection between the frame and a non-rotary part of the vehicle to prevent rotation of the frame.

1,780,641. DUST SEPARATOR. SAMUEL NOEL CHEW, Thornton Heath, England, assignor to Pneumatic Conveyance & Extraction (1929) Limited, London, England, a Company of Great Britain. Filed Aug. 17, 1926, Serial No. 129,792, and in Great Britain Aug. 19, 1925. 2 Claims. (Cl. 183—79.)

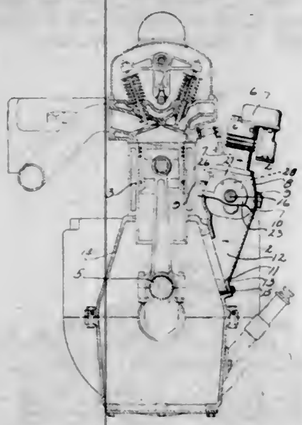
1. An extractor for extracting dust and grit from air or other medium comprising a closed casing forming a collecting chamber for the dust and grit, outlet means

at the bottom of the chamber for the collected matter, and a part-circular tube within said casing, for the passage of the medium, of V-shaped section with the apex of the section at its outer periphery, said tube being open



at its ends to the outside of the casing for coupling pipes and having two openings within the casing, one an outlet at its peripheral apex and the other an inlet on its inner side near its inlet end, both openings communicating with the collecting chamber, as set forth.

1,780,642. COMPRESSOR. NIELS A. CHRISTENSEN, Cleveland, Ohio. Filed Mar. 15, 1929. Serial No. 347,219. 3 Claims. (Cl. 123—2.)

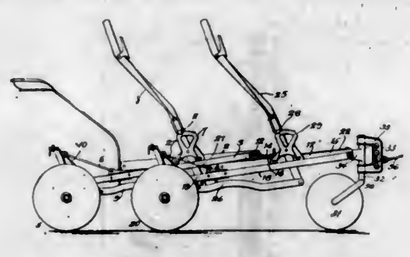


1. In an automotive engine, the combination with the pressure lubricating system and a lay shaft of said engine and the engine crank case having a side opening of a cover plate for said side opening having a hollow pedestal portion extending therefrom, a compressor having its crankcase freely communicating with the engine crank case through said pedestal, said compressor having a crank shaft, driven from said lay shaft, a connecting-rod mounted thereon, and means for lubricating the bearings of said crank shaft and connecting-rod from the pressure lubricating system of the engine, the oil from said bearings being free to drain from said compressor crank case and with the vapor formed in the crank cases forming the sole source of lubricant for the cylinder of the compressor.

1,780,643. METAL AMINO CARBONYLS AND PROCESS OF MAKING THE SAME. PHILIP S. DANNER, Point Richmond, and JOHN E. MUTH, Berkeley, Calif., assignors to Standard Oil Company of California, San Francisco, Calif., a Corporation of Delaware. Filed Sept. 26, 1927. Serial No. 222,198. 15 Claims. (Cl. 260—11.)

14. An amino carbonyl of a single metal free from alkali metals containing not less than three carbonyl groups for every atom of metal in the compound.

1,780,644. DISK HARROW. WILLIAM D. DEWEND, South Bend, Ind., assignor, by mesne assignments, to Oliver Farm Equipment Company, a Corporation of Delaware. Filed May 10, 1928. Serial No. 276,710. 13 Claims. (Cl. 55—83.)

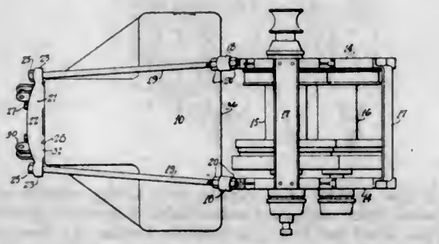


1. In a harrow, the combination with a central frame and disk gangs connected therewith, of a transverse drawbar, means pivotally connecting the forward end of the central frame with said draw-bar, like lateral frames having rigid connection with respective ends of said drawbar, a lateral disk gang connected with each lateral frame, and draft rods connected with the lateral frames and the central portion of the transverse draw-bar.

1,780,645. ORNAMENTAL FABRIC AND METHOD OF MAKING THE SAME. CAMILLE DREYFUS and WILLIAM R. BLUME, New York, N. Y., assignors to Celanese Corporation of America, a Corporation of Delaware. Filed June 26, 1928. Serial No. 288,530. 5 Claims. (Cl. 41–26.)

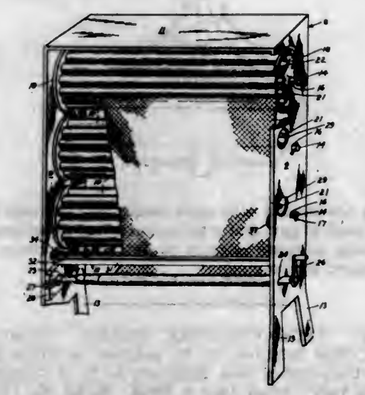
5. Method of producing brocade effects on fabrics containing cellulose acetate comprising delustering said fabric locally, applying a paste containing cellulose nitrate, a softening agent, a pigment and a solvent for said cellulose nitrate which is a nonsolvent for the cellulose acetate contained in the fabric and then subjecting the fabric to a relustering agency.

1,780,646. BRACKET FOR TRACTOR HOISTS. SIDNEY B. GORBUTT, Portland, Oreg., assignor, by mesne assignments, to Willamette-Ersted Company, Portland, Oreg. Filed Dec. 10, 1928. Serial No. 324,824. 3 Claims. (Cl. 180—53.)



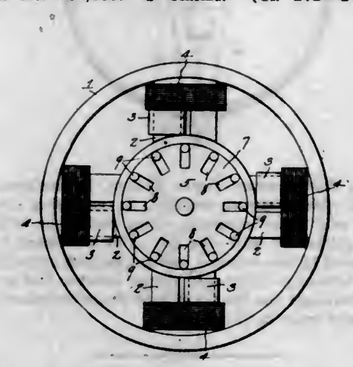
1. In a tractor hoist the combination of a transmission casing, a hoist having a pair of spaced side frames, means for hinging the lower portion of said side frames to a tractor axle, said frames having tie rod fastenings formed near the upper end thereof, one side of said hoist bearing against an end of the transmission case, an anchor bracket bolted against the opposite end of the transmission case, tie rods joining said anchor bracket to said hoist in a manner to clamp the transmission case between same, the junction of said tie rods and anchor bracket being nearer to each other than are the tie rod fastenings on said hoist, as well as in a lower horizontal plane than are said tie rod fastenings on said hoist.

1,780,647. RACK FOR ROLLED MATERIALS. MICHAEL T. HEAVEY, Berkeley, Calif. Filed Mar. 5, 1928. Serial No. 259,009. 5 Claims. (Cl. 33—128.)



1. In a rack of the class described, opposed side panels and a top panel, a shaft journalled in and between said side panels, plate members fixedly mounted on said shaft between said side panels and in opposed relation thereto, and provided with axially directed openings, roll receiving spindles removably and rotatably mounted in and between openings of the different members, and means permitting a longitudinal removal of a spindle from its mounted position in said openings and through a side panel.

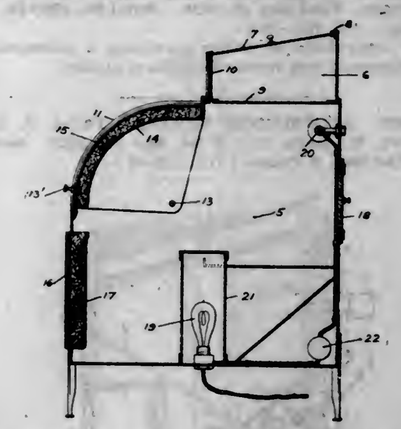
1,780,648. SELF-STARTING SYNCHRONOUS MOTOR. PAUL P. HORNI, Newark, N. J. Filed July 10, 1929. Serial No. 377,165. 4 Claims. (Cl. 172—275.)



1. A Self-starting synchronous motor comprising a multipolar field having rotating characteristics, a rotor turnable in said field, said rotor having an iron core with radial slots and longitudinal conductor rods in the outer portions of the slots, the remainder of said slots being free of conducting material.

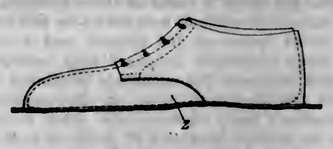
1,780,649. WARMING DEVICE. HARRY M. JACOBS, Brooklyn, N. Y., assignor to The Jacobs Bros. Co. Inc., Brooklyn, N. Y., a Corporation of New York. Filed May 14, 1929. Serial No. 363,057. 1 Claim. (Cl. 34—21.)

A warming device including a casing, a source of illumination and heat disposed within said casing, a perforated shield embracing said source to permit warm air to pass through the shield, a container associated with said casing and embracing a perforated base through which warmed air may pass from within said casing,



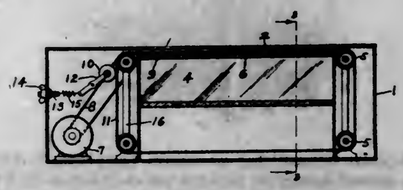
and a perforated cover associated with said container and through the perforations of which said air may escape after flowing through the container.

1,780,650. METHOD OF MAKING SHOES. WILLIAM J. KELLY, Brooklyn, N. Y., assignor of one-half to Arthur C. Basch, Brooklyn, N. Y. Filed Jan. 30, 1930. Serial No. 424,490. 9 Claims. (Cl. 12—142.)



9. In the method of making shoes, the steps of pulling an upper downwardly and outwardly simultaneously from the bottom edge of the last at opposite sides thereof, and driving tacks through the upper and into the side of the last.

1,780,651. ADVERTISING DISPLAY APPARATUS. JOSEPH LASHENICK, Brooklyn, N. Y. Filed Aug. 4, 1928. Serial No. 297,484. 2 Claims. (Cl. 40—82.)

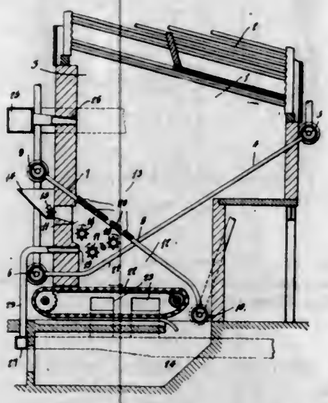


1. In an advertising display apparatus, a casing having a compartment at each end and a middle compartment with a top window, a front exhibiting window and an inner mirror angularly disposed to and facing said windows, rollers within each end compartment, an endless band with advertising matter thereon trained over said top window and over the rollers disposed in each of the end compartments, means for effecting movement of said band over said rollers and adjacent to the top window, said arrangement of band, mirror and windows constituting means for allowing natural light to pass through the upper window and be reflected by said mirror through the front window and thereby display a replica of the advertising matter on said band in said front window.

1,780,652. COATING COMPOSITION. WALTER E. LAWSON, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed May 18, 1928. Serial No. 278,918. 9 Claims. (Cl. 134—26.)

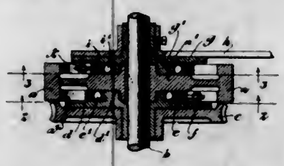
1. A composition of matter containing a polymerized vinyl compound and tetrahydrofurfuryl alcohol.

1,780,653. ACID-SLUDGE BURNER. FRANK J. MCDEVITT, St. Louis, Mo. Filed May 26, 1927. Serial No. 194,499. 7 Claims. (Cl. 122—4.)



1. A furnace for burning acid sludge comprising an enclosure having walls, a series of tubes arranged diagonally with respect to walls of said enclosure and connected with the boiler system of the furnace, and a secondary series of tubes diagonally arranged with respect to the walls of said enclosure but oppositely positioned with respect to the first-mentioned tubes, the first mentioned and second mentioned tubes crossing each other intermediate their ends to define a plurality of walls of a distillation chamber, a carbon combustion chamber and a gas combustion chamber, and means for feeding acid sludge to the distillation chamber.

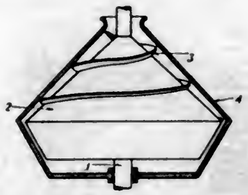
1,780,654. POWER-TRANSMITTING MECHANISM. GEORGE E. MOLYNEUX, Bayonne, N. J. Filed Nov. 28, 1928. Serial No. 322,567. 3 Claims. (Cl. 74—57.)



1. A power transmitting mechanism comprising a driven part, a normal driver, an impeller for cooperation with the driven part, means actuated by the normal driver to effect operative engagement between the impeller and the driven part, a second impeller for cooperation with the driven part an accelerating driver independent of the normal driver, and means actuated by the accelerating driver to effect operative engagement between the second impeller and the driven part, the impeller being coaxial with the driven part.

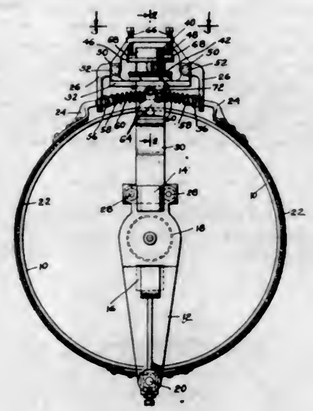
1,780,655. SLUDGE SEPARATOR. AAGE NYROP, Copenhagen, Denmark. Filed Oct. 31, 1929, Serial No. 403,793, and in Denmark Nov. 2, 1928. 8 Claims. (Cl. 233—7.)

1. A rotary separator comprising, a rotating shaft, a rotatable outer casing on said shaft, a central part rotatably mounted within said casing, a cover plate rigidly connected to said central part, helical threads on said cover plate slidably abutting said outer casing, gear train



means in the base of said outer casing between said shaft and said central part and retardation means retarding said outer casing to cause relative motion of said cover plate with respect thereto.

1,780,656. FLUID-PRESSURE BRAKE. ALBERT D. PENTZ, New Brighton, N. Y., assignor to Pentz Motor Brake Corporation, New Brighton, N. Y., a Corporation of New York. Filed June 2, 1926. Serial No. 113,131. 3 Claims. (Cl. 188—152.)



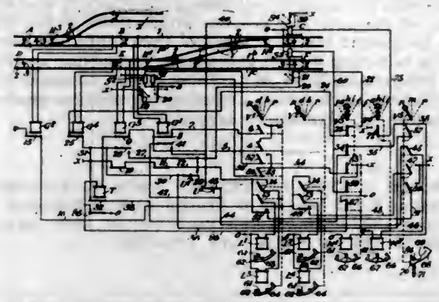
1. In a fluid pressure brake system, in combination, a fluid-tight elastic thrust member, an enclosing ring surrounding said thrust member, a plug resting on said member and guided by said ring for axial movement therein, a brake band in two sections, and mechanism including said plug for interconnecting said thrust member and said sections to transmit the thrust of said thrust member equally to both said brake sections.

1,780,657. PROCESS OF TREATING RUBBER AND PRODUCT PRODUCED THEREBY. WILLIAM BEACH PRATT, Wellesley, Mass., assignor, by mesne assignments, to Dispersions Process, Inc., Dover, Del., a Corporation of Delaware. Filed Aug. 23, 1922. Serial No. 583,903. 21 Claims. (Cl. 134—1.)

2. A process of dispersing a rubber mass in water, which comprises dissolving the rubber together with ammonia in a solvent, mixing water with the solution, and removing the solvent.

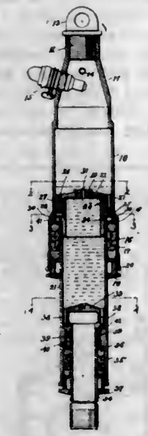
16. A new product, comprising substantially only water as the liquid vehicle having dispersed therein in colloidal non-coagulated form the coagulum of a latex together with a hydrophilic colloid, sulphur and a pigment, and which on removal of water is vulcanizable as a mass, the major portion of said dispersed particles being substantially uniform in size and of the same order of magnitude as the rubber globules of latex.

1,780,658. MASTER-CONTROL APPARATUS. LESTER E. SPRAY, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Jan. 29, 1930. Serial No. 424,258. 15 Claims. (Cl. 246—135.)



15. In combination, a manually operable lever for controlling an electrical device, a first and a second electric lock for controlling said lever, a manually operable master lever having a normal and a reverse position, means controlled by said master lever in its normal position for controlling said first electric lock, and means controlled by said master lever in its reverse position for controlling said second electric lock.

1,780,659. SHOCK-ABSORBING STRUT. JOHN F. WALLACE, Shaker Heights, Ohio, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 9, 1927. Serial No. 238,839. 9 Claims. (Cl. 267—64.)



1. In a pneumatic and hydraulic shock absorbing strut, a cylinder, a piston therefor movable against pneumatic pressure to absorb shock, and a second piston movable against liquid displaceable through a metering opening to absorb shock, the movement of said second piston being communicable to said first piston through said liquid whenever the pressure in said liquid equals the pneumatic pressure acting against said first piston.

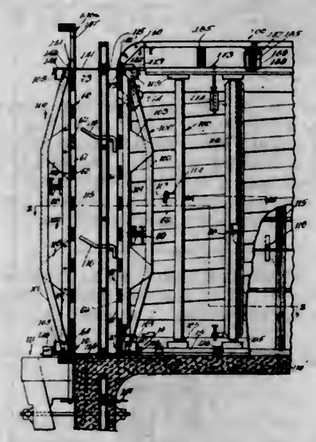
1,780,660. SHOCK-ABSORBING STRUT FOR AIRCRAFT. JOHN F. WALLACE, Shaker Heights, Ohio, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 15, 1928, Serial No. 254,826. Renewed Aug. 28, 1930. 8 Claims. (Cl. 267—64.)

1. In a shock absorbing strut for aircraft, two telescoping parts adapted to be secured to the portions of the aircraft whose relative movements are to be cushioned, one of said telescoping parts comprising two piston heads movable together in fixed relation, and means carried by



the other telescoping part for opposing the movement of one piston head throughout the stroke caused by the impact of landing and for opposing movement of the other piston head throughout only the latter part of said stroke.

1,780,661. MOLD FOR CONCRETE BUILDINGS. AXEL G. W. WEDBERG, Chicago, Ill. Filed Apr. 9, 1926. Serial No. 100,817. 38 Claims. (Cl. 25—131.)



20. In a molding construction, a plurality of molding panels positioned edge to edge, each of the said panels having a hook-like portion associated with its edge, the hook-like portions of the adjacent panels serving to form a pocket, a stiffening element positioned in the pocket and overlapping the edges of the adjacent panels, and a clamping device for connecting the hook-like portions to force them outwardly from the panels and for urging the stiffening element inwardly towards the panels, said device comprising a pair of clamping arms for engaging said hook portions, a lost motion connection between the said arms, and wedging mechanism for urging the arms towards each other and for urging the arms outwardly away from the stiffening element, as well as for urging the stiffening element in toward the said panels.

26. In a molding construction, a pair of spaced molding panels, means for tying the panels together comprising a

band of material adapted to be laid between the edges of the panels and a wedge member driven through the edge of one panel and passing through perforation in said band, the said wedge member bearing against the rear face of the other panel for tying the panels to another wall panel spaced therefrom, locking the panels against movement toward or away from each other.

28. In a molding construction, a pair of associated molding elements, a stiffening member for one of the said elements adapted to be associated with the rear face of the element to strengthen the same, the other molding element being provided with a shoe for receiving an end of the stiffening element, and means associated with an end of the stiffening element adapted to be set in the shoe to cooperate with the shoe and to prevent twisting of the stiffening element, the said stiffening element transmitting any forces which may be imposed on its associated molding element to the shoe.

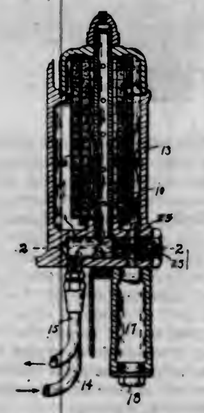
36. In a molding construction, a molding panel comprising a molding surface consisting of a sheet of metallic material, a plurality of slats associated with the rear of the panel for reenforcing the sheet, said sheet having portions turned back over itself to form pockets for receiving the ends of the slats to maintain them in position, said turned back portions having lateral extensions spaced from the edges of the panel.

1,780,662. **DOORCHECK.** JOSEPH WEISS, Chicago, Ill. Filed Oct. 18, 1928. Serial No. 313,199. 11 Claims. (Cl. 292—270.)



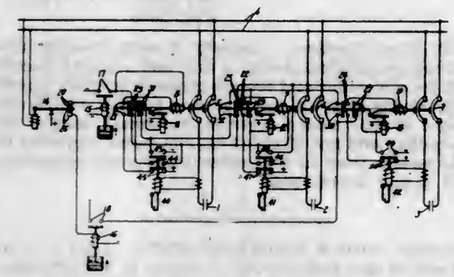
1. In a device of the kind described, comprising in combination, a keeper and a latch, said keper having a longitudinal slot and means to lock said latch in said slot by means of a plurality of resilient members hingedly attached to said keeper, said means including an element secured to said latch and slidably confined betwen said resilient members when in operative position.

1,780,663. **OIL FILTER.** CHARLES A. WINSLOW, Vallejo, and ELBERT J. HALL, Berkeley, Calif. Filed May 5, 1925. Serial No. 28,211. 2 Claims. (Cl. 210—165.)



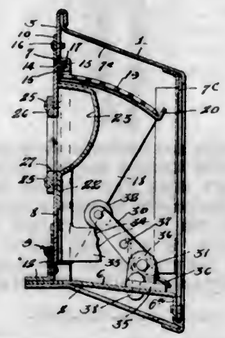
1. A pressure filter for the purpose mentioned comprising a housing having an inlet and an outlet port, a collecting medium of compressible porous fibrous substance interposed between said ports adapted to collect a layer of carbon and other solid particles normally present in oil used for lubricating purposes under high temperatures formed at or near the surface of the collecting medium and means for maintaining pressure differences on opposite sides of the collecting medium within limits sufficiently low to prevent the solid particles from filling the pores of the collecting medium and means for applying a yielding compression force to the said porous substance for maintaining the latter at a substantially uniform density, regardless of shrinkage or expansion.

1,780,664. **CONTROL SYSTEM.** ARVID E. ANDERSON, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 14, 1927. Serial No. 161,192. 5 Claims. (Cl. 172—246.)



5. In combination, an electric circuit, a plurality of reactive means, a circuit breaker associated with each reactive means for connecting it to said circuit, means responsive to an electrical condition of said circuit for effecting the closing of said circuit breakers in a predetermined sequence and overload responsive means associated with certain of said reactive means for effecting the disconnection thereof from said circuit and for rendering the next circuit breaker in said sequence operative to be closed by said first mentioned means.

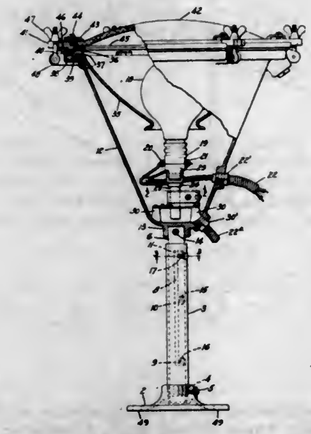
1,780,665. **VENTILATOR CONSTRUCTION FOR WINDOW FRAMES.** ROY T. AXE, Syracuse, N. Y., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Sept. 28, 1927. Serial No. 222,654. 3 Claims. (Cl. 98—93.)



1. The combination with a frame member having a ventilator opening therethrough, of a door in said opening, the door being hinged at one edge and having side walls and a wall at its free edge telescoping into said opening, the wall at the free edge being formed with ventilator passages therethrough, the door being also provided with a hand passage therethrough and a hand

hold mounted on the inner side of the door provided with a depressed portion closing said opening in the door and impositive locking means for holding the door in open and closed positions, and means carried by the hand hold with which said locking means coacts to hold the door in adjusted position.

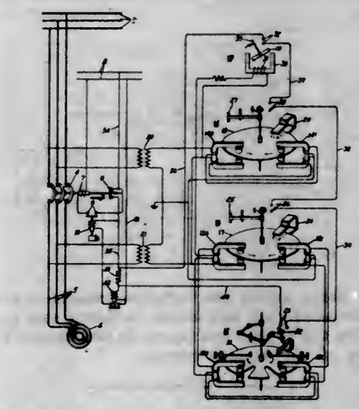
1,780,666. **FLOOD-LIGHTING DEVICE.** PERCY S. BAILEY, Marblehead, Mass., assignor to General Electric Company, a Corporation of New York. Filed Nov. 17, 1928. Serial No. 320,169. 2 Claims. (Cl. 240—1.)



2. In a flood light, a casing adapted to enclose a light source and a reflector therefor, said flood light having within said casing a support for the lamp, said support comprising a rod held in position by and between the arms of a resilient clamp, said clamp being mounted in the casing in position to hold the rod along the longitudinal axis of the casing, said rod being provided with a mortise in the form of a slot extending along the side of the rod and a tenon supported within the casing with the end thereof in operative engagement with said mortise, whereby the rod may be slid between the arms of the clamp along the axis of the casing but prevented from rotating, said clamp and said tenon being mounted on a plate within the casing, the plate extending transverse the axis of the casing, said plate being perforated, the axis of the perforation serving as a guide bearing for the rod in its longitudinal movement, said plate being supported upon lugs near the bottom of the case whereby the rod may project through the perforation and beyond said plate.

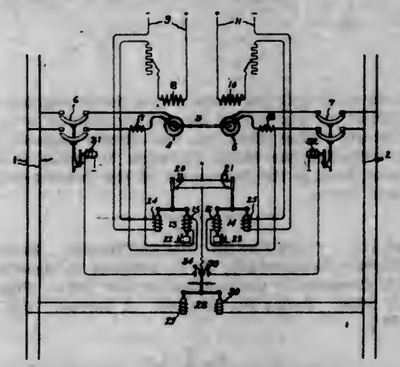
1,780,667. **SYNCHRONIZING APPARATUS.** HERMAN BANY, Yeadon, Pa., and GORDON R. MCDONALD, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed Nov. 30, 1928. Serial No. 322,783. 4 Claims. (Cl. 171—118.)

1. In combination, two alternating current circuits, means for connecting the circuits and means for controlling the closing operation of the connecting means including a plurality of relays connected to be energized from the circuits and arranged so that their movable members must simultaneously be in predetermined positions to start the closing operation of the connecting means, means for retarding the movement of the movable members of two of said relays, means for moving the movable elements of said two relays to their respective predetermined positions in times dependent on the difference between the frequencies of the electromotive forces of said circuits and within predetermined overlapping ranges of phase difference between the electromotive forces, means tending to move the movable member of another of said relays to its predetermined position within a predetermined range of phase difference overlapping a portion of the phase difference common to the movable



members of the two relays, and means for actuating the movable member of a fourth one of said relays through its predetermined position at a predetermined phase difference within the range thereof common to the movable members of the first three mentioned relays.

1,780,668. **SYSTEM OF ELECTRIC DISTRIBUTION.** THEOPHILUS F. BARTON, Upper Montclair, N. J., assignor to General Electric Company, a Corporation of New York. Filed June 22, 1929. Serial No. 372,891. 8 Claims. (Cl. 175—294.)



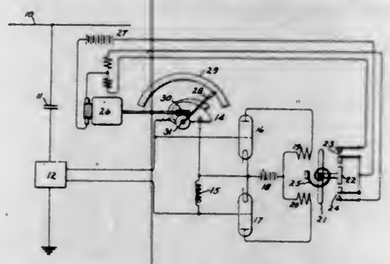
1. In combination, two alternating current systems, a rotary transformer interconnecting said systems, and means operative upon the occurrence of a disturbance on one of said systems which causes said transformer to fall out of step for effecting the disconnection of said transformer only from the system on which the disturbance does not occur whereby said transformer operates as a synchronous condenser across the system on which the disturbance occurs.

1,780,669. **FREQUENCY-RESPONSIVE SIGNAL-RECEIVING APPARATUS.** WALDEMAR BRÜCKEL and ROBERT SCHIMPF, Berlin, Germany, assignors to General Electric Company, a Corporation of New York. Filed Apr. 23, 1925, Serial No. 25,451, and in Germany Aug. 5, 1924. 8 Claims. (Cl. 250—39.)

1. A frequency responsive signal receiving apparatus comprising a signal receiving circuit having an inductive

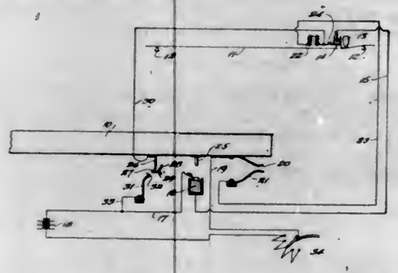
CARNEGIE LIBRARY OF ATLANTA

reactance and a capacitive reactance connected in series, a relay having a pair of differentially connected coils, means responsive to the voltage across the capacitive reactance for energizing one of said coils, means responsive



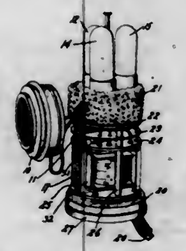
to the voltage across the inductive reactance for energizing the other coil, and means including said relay for controlling one of said reactances in accordance with the frequency of the received current.

1,780,670. SOSTENUTO PIANO. SIMON COOPER, Brooklyn, N. Y. Filed Mar. 12, 1929. Serial No. 346,290. 26 Claims. (Cl. 84—259.)



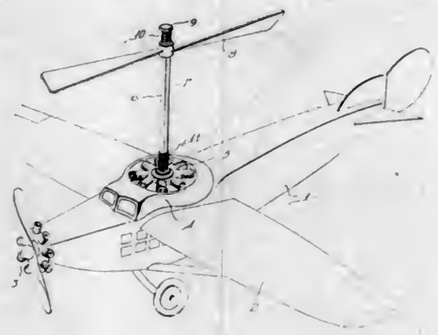
1. In an electric sostenuto piano, electromagnetic means for imparting a powerful momentary impulse to a string to initiate string vibration, and electro-magnetic means for continuing the string vibration by means calculated to also develop the harmonics of the fundamental note of said string.

1,780,671. CONDENSER MICROPHONE. EUGENE G. CRIPPEN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 13, 1928. Serial No. 285,085. 2 Claims. (Cl. 179—171.)



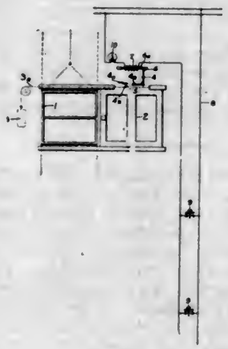
1. The combination with a condenser microphone, of a casing having a sidewall extension adapted to receive said microphone, a resilient lining for the casing, and a multistage thermionic valve amplifier adapted to be mounted as a unit in said casing and within the lining, said amplifier unit including a plurality of valves, sockets for said valves, a resilient cushion for said sockets, electrical coupling means for said valves, a supporting means for said coupling means and said cushion including a plurality of spaced insulating disks, a base for the casing and a resilient supporting means between said unit and said base whereby sound vibrations are prevented from affecting the electrode spacing of said valves.

1,780,672. AEROPLANE. TYRRELL H. DUNCOMBE, Miami, Fla. Filed June 28, 1929. Serial No. 374,312. 6 Claims. (Cl. 244—15.)



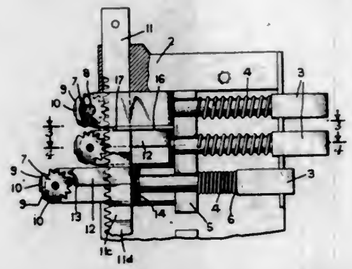
3. The combination in an aeroplane of a vertically extending motor driven splined shaft, a propeller mounted upon said shaft to slide longitudinally thereon, positive means for limiting the sliding movement of said propeller, and resilient means interposed between said positive means and said propeller.

1,780,673. DOOR - CLOSING DEVICE. JOHN EATON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 10, 1926. Serial No. 87,471. 4 Claims. (Cl. 177—311.)



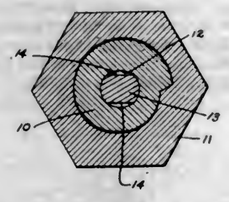
2. In combination, a door, means biasing said door to its closed position, a latch for holding said door in its open position, a signal at the door, a time element device for releasing said latch, and an electric circuit controllable at a distance from the door to set the signal and actuate the time element device.

1,780,674. COMPOUND TYPE BAR. BERNHARD KARL FRITZ EWALD, Villingen, Germany, assignor to The Tabulating Machine Company, Endicott, N. Y., a Corporation of New Jersey. Filed Mar. 4, 1927. Serial No. 172,704. 38 Claims. (Cl. 101—93.)



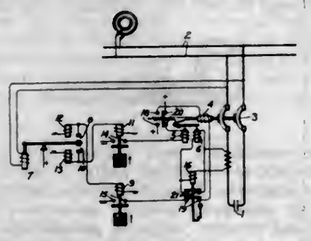
1. In combination, a rectilinearly movable type carrier, a plurality of elongated type elements carried thereby and a plurality of type characters mounted on one end of each of said elements, only one of said characters on each element being adapted after adjustment for printing.

1,780,675. BOLT AND NUT LOCK. WILLIAM R. HEWITT, New York, N. Y. Filed Jan. 16, 1929. Serial No. 332,757. 2 Claims. (Cl. 151—31.)



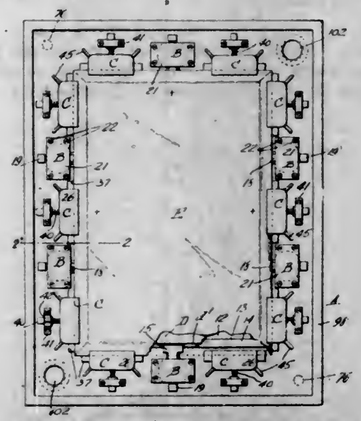
1. A nut and bolt locking means comprising a threaded bolt provided with a cylindrical opening having a conical bottom portion formed in the end thereof, a nut for said bolt, and a plug adapted to be held by the cylindrical portion of said opening and driven into the conical portion of the opening to expand said bolt, said plug being cylindrical throughout a portion of its length and of a substantially elliptical cross-section at its inner end whereby when the plug is driven into the conical portion of said opening the bolt will be expanded along one axis to thereby lock said nut against turning upon said bolt.

1,780,676. CONTROL SYSTEM. EUGENE L. HOUGH, St. Louis, Mo., assignor to General Electric Company, a Corporation of New York. Filed Jan. 14, 1927. Serial No. 161,195. 2 Claims. (Cl. 172—246.)



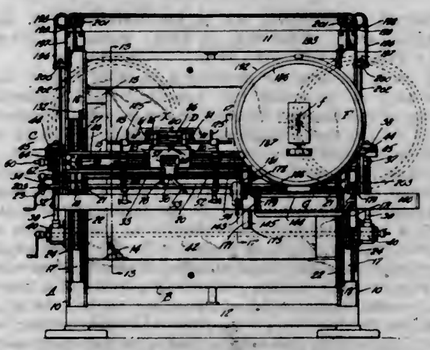
1. In combination, an electric circuit, a capacitor, a switch for connecting said capacitor to said circuit, means responsive to an electrical condition of said electric circuit for controlling the closing of said switch, and means responsive to a predetermined current through said capacitor for effecting the opening of said switch and for rendering said control means inoperative to effect the closing of said switch.

1,780,677. HOLDING AND SUPPORTING DEVICE FOR PRINTING OR PRINT-RECEIVING ELEMENTS AND THE LIKE. WILLIAM C. HUEBNER, Buffalo, N. Y. Filed Oct. 10, 1924. Serial No. 742,919. 21 Claims. (Cl. 95—73.)



1. A holder for a flexible photographic sheet or film comprising a portable frame having an opening for the passage of light, a support on which said frame is removably secured, a plurality of sheet gripping and tightening devices for said sheet movably mounted on said frame at the several sides of said opening to move independently toward and from the opening in a plane parallel with that of said sheet and each having means for independent attachment to the sheet, adjusting means for said devices adapted to bodily move and hold said devices independently of each other relatively to said frame whereby said devices can be moved to and held at different distances from said openings so as to apply varying tension to different portions of the several edges of said sheet to draw it taut and smooth over said frame opening.

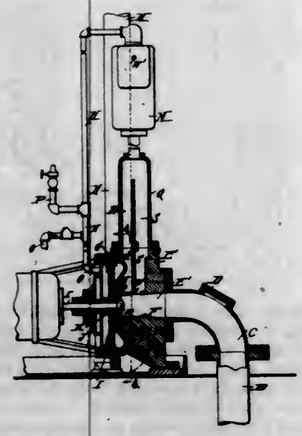
1,780,678. PHOTOGRAPHIC PRINTING APPARATUS. WILLIAM C. HUEBNER, Chicago, Ill., assignor to Huebner-Bleistein Patents Company, Buffalo, N. Y., a Corporation of New York. Filed July 10, 1928. Serial No. 291,650. 30 Claims. (Cl. 95—73.)



1. In a photographic printing apparatus the combination of a flat sensitized plate, a support therefor, a main

carriage, means for mounting any one of a series of printing plates of different sizes on said main carriage in parallel face to face relation to said sensitized plate, and with an edge disposed in fixed relation to said carriage, whereby the centers of plates of different sizes will be in different relative positions to said carriage, a source of light arranged in a housing adjustably mounted on said main carriage for movements parallel with the sensitized plate into and out of position at the back of the said printing plate and means for adjusting said light housing perpendicular to said last mentioned movement and parallel with the sensitized surface whereby said light can be placed opposite the center of any size of printing plate on said carriage.

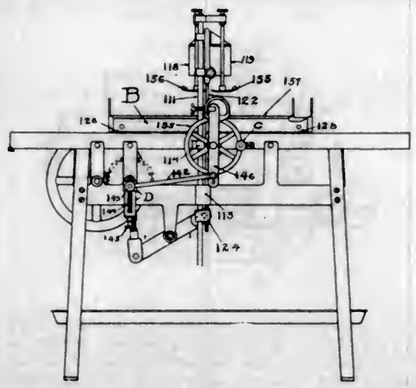
1,780,679. SUMP OR BILGE PUMP. IRVING C. JENNINGS, South Norwalk, Conn. Filed Sept. 6, 1927. Serial No. 217,670. 11 Claims. (Cl. 103—113.)



8. A centrifugal water pump comprising an impeller, a casing forming a volute for the impeller, a central inlet passage through the casing forming the inlet eye to the impeller, a hole or orifice in the casing communicating with the volute at a point outside the inlet eye, an opening into the central inlet pasage, a manifold secured on said casing and having passages communicating with said hole and said opening so as to form a circulating passage between the same, a separating tank secured on top of the manifold and having a float controlling a connection to the atmosphere, and a suction air pump connected to the impeller of the water pump to exhaust air from said separating tank.

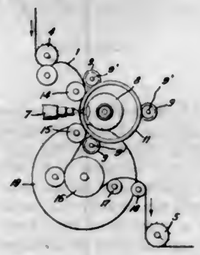
1,780,680. CUTTING MACHINE. WILLIAM E. KAY, Elyria, Ohio. Filed Oct. 12, 1922. Serial No. 593,983. 11 Claims. (Cl. 107—21.)

7. In a machine for dividing a block of plastic material such as ice cream into equally divided portions, a frame, a carriage for supporting the material adapted to move on the frame longitudinally thereof, a cutting tool having a transversely extending knife disposed over the carriage, said knife mounted for vertical reciprocation through the ice cream from a point above the ice cream, common driving means for the carriage and the cutting tool, a rack disposed longitudinally of the carriage and carried thereby, a pinion journalled in the frame engageable with the rack, means to effect a step by step rotary movement of the pinion comprising a link and a step by step ratcheting mechanism interposed betwen the pinion and the driving means, a reciprocable link joining said driving means to said cutting tool, said link being so disposed as to effect a longitudinal movement of the carriage simultaneously with an upward movement of said cutting tool, said ratcheting mechanism comprising a wheel disposed in driving relation to said pinion, an arm having a portion adjacent the wheel rim, said arm comprising a pair of bevelled surfaces facing the wheel rim and a pawl



element disposed intermediate the surfaces and the rim and making wedging engagement therebetween upon a predetermined reciprocatory movement of the arm to clutch the arm to the wheel.

1,780,681. SOUND RECORDING AND REPRODUCING APPARATUS. EDWARD W. KELLOGG, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Original application filed July 27, 1928, Serial No. 295,780. Divided and this application filed Oct. 4, 1929. Serial No. 397,395. 5 Claims. (Cl. 179—100.3.)



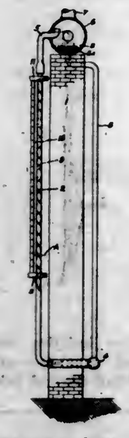
1. In apparatus for recording sound on or reproducing sound from a moving film, a freely rotatable cylindrical member adapted to support the film at the recording or reproducing point and supporting means for said member comprising a plurality of rotatable members engaging the periphery of said member.

1,780,682. PIPE FOR SMOKING TOBACCO. HUGH MALCOLM MCCORMICK, Huntington, Ind. Filed Jan. 21, 1929. Serial No. 333,947. 1 Claim. (Cl. 131—12.)



A pipe comprising a bowl having a stem section connected thereto, a bit section having a bit thereon connected to said stem section, said stem section having a plurality of superposed smoking ducts converging from the bowl and directly joining a common duct terminating in the outer end of said bit section, the smoke passage from the bowl to the end of said bit section being continuous and uninterrupted by cavities or wells.

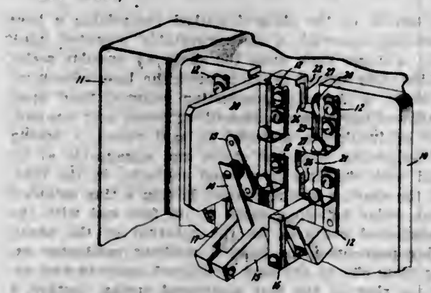
1,780,683. METHOD AND APPARATUS FOR HEAT REMOVAL BY MERCURY. HURT L. NEWKIRK, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 4, 1927. Serial No. 210,704. 17 Claims. (Cl. 122—332.)



1. The method of transferring heat in a mercury vapor generating apparatus which comprises generating an intimate mixture of mercury vapor and finely divided mercury liquid which is predominantly vapor in volume but not in weight, and passing such mixture along the heated surface to absorb heat therefrom.

6. In a mercury vapor generating apparatus the combination of means for generating an intimate mixture of mercury vapor and finely divided mercury liquid, and means for supplying heat to said mixture.

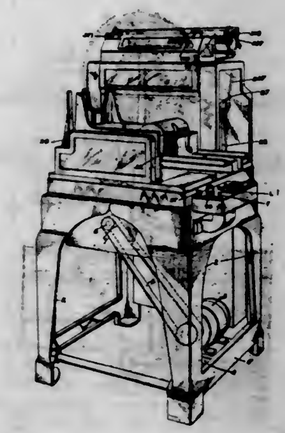
1,780,684. CIRCUIT-INTERRUPTING DEVICE. JOSEPH W. OWENS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 4, 1928. Serial No. 251,987. 4 Claims. (Cl. 200—149.)



1. In a circuit interrupter, the combination of a base having arcing contacts mounted thereon and having keyhole-shaped openings formed therein and an arc barrier having projecting keys operable into and out of interlocking engagement with the openings in the base upon predetermined relative movement of the barrier with respect to said base.

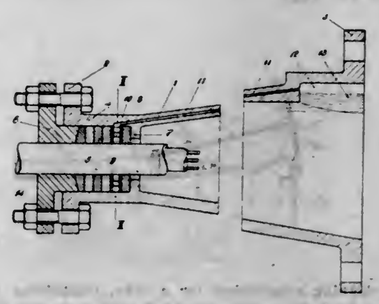
1,780,685. PRINTING TABULATING MACHINE. JOHN ROYDEN PRINCE, New York, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 27, 1924. Serial No. 758,359. 29 Claims. (Cl. 235—58.)

1. In an accounting machine, accumulator racks, accumulator wheels adapted to be actuated by said racks, carrying mechanism associated with said wheels and adapted when a wheel reaches its zero position to carry into the wheel of the next higher order, and means controlled by predetermined movement of an accumulator rack for rendering inoperative the carrying mechanism controlled by the corresponding accumulator wheel.



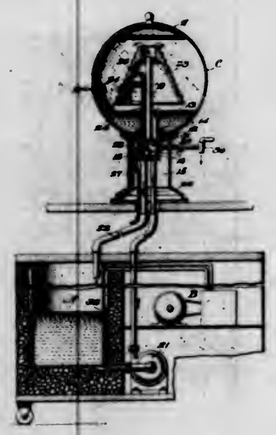
14. In a tabulating machine, listing mechanism, totaling mechanism, a motor, means for interchangeably causing said motor to actuate said mechanisms, and automatic control means for causing a change of speed of said motor when changing from the actuation of one of said mechanisms to the actuation of the other.

1,780,686. JUNCTION BOX FOR HIGH-TENSION ELECTRIC CABLES. CORNELIS FREDERIK PROOS, Delft, Netherlands, assignor to Naamlooze Venootschap Nederlandsche Kabelfabriek, Delft, Netherlands, a Dutch Company. Filed Jan. 16, 1928, Serial No. 247,244, and in the Netherlands Feb. 7, 1927. 5 Claims. (Cl. 247—18.)



1. A junction box for high tension electric cables provided with lead sheathing, said box having an expansion chamber therein, a plurality of packing rings disposed around the lead sheathing of the cable, spaced separating means arranged between said packing rings forming space between the adjacent faces of the packing rings, and means communicating the space between said means with the expansion chamber.

1,780,687. BEVERAGE DISPENSING AND DISPLAY DEVICE. HARRY C. SMITH, New York, N. Y., assignor to The Autodrink Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 2, 1929. Serial No. 344,027. 1 Claim. (Cl. 225—28.)



In a beverage dispensing and display device, a beverage display container, a tube extending through the bottom of said container, a member connected with the lower end of said tube, said member having a pair of passages extending from top to bottom therethrough, one of said passages being in direct communication at its upper end with said tube, a pipe connected with the upper end of the other of said passages extending through said tube into the display container, beverage return and feed pipes connected with the lower ends of said passages, respectively, and a casing surrounding said member and said pipes, said member constituting a nut for clamping said casing rigidly with respect to said container.

1,780,688. RAKE-CLEANING ATTACHMENT. JOHN A. STEINMETZ and CLYDE V. SPAULDING, Van Wert, Ohio. Filed Jan. 15, 1930. Serial No. 420,960. 1 Claim. (Cl. 55—146.)



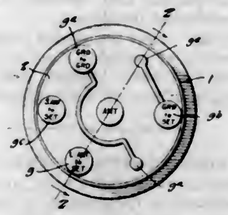
A cleaning attachment for a rake, comprising a plate having its body portion provided with a ground levelling bead along one edge and a right angular flange at its opposite edge formed with apertures to receive the teeth of the rake, and a spring support comprising a metal plate having an arcuately bent clamping portion for bracing the handle of the rake and a pair of upwardly inclined relatively diverging flat arms formed integral with a side edge of the said clamp portion and terminating in upwardly disposed angular extensions secured to the cleaning plate below the bead, and fastening means connecting the end of the said clamping portion.

1,780,689. WELT NEEDLE FOR KNITTING MACHINES. FRED SUTCLIFFE, Jr., Philadelphia, Pa., assignor to Mock, Judson, Voehringer Company, Inc., Philadelphia, Pa., a Corporation of Delaware. Filed Feb. 15, 1930. Serial No. 428,764. 2 Claims. (Cl. 66—96.)



1. A welt needle for knitting machines comprising a shank, a spring beard near the outer end thereof, and a pointed and curved end beyond said beard.

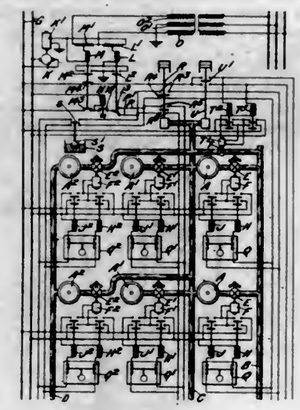
1,780,690. SWITCH FOR RADIORECEIVERS. VERNIS O. SYESTER, Linton, Ind. Filed Aug. 1, 1927. Serial No. 209,939. 2 Claims. (Cl. 200—11.)



1. A switch of the class described comprising a base of insulating material, a shaft rotatably mounted upon the base, a finger knob upon the shaft, an annular series of equidistantly spaced contacts upon the base concentric to the shaft, a sleeve of conducting material fixed upon the shaft and having a circumscribing recess near one end, a collar of insulating material in said recess, a spring contact extending from the sleeve and engageable at its free end with the first mentioned contacts, in the rotation of the shaft, a spring contact having a ring mounted upon the collar and engageable at its free end with the first mentioned contacts, in the rotation of the shaft, a binding post upon the base, a resilient conductor extending from one of the first mentioned contacts and engaging the ring of the last mentioned spring contact, a conductor bridging two relatively adjacent ones of the first mentioned contacts, and a conductor bridging two diametrically opposite ones of the first mentioned contacts and having an arcuate bend intermediate its ends to extend about the sleeve in spaced relation thereto.

1,780,691. AUTOMATIC CONTROL FOR TURBOALTERNATORS. THOMAS REGINALD WARREN, Norton-on-Tees, England, assignor to Imperial Chemical Industries Limited, London, England, a Company of Great Britain. Filed June 14, 1929, Serial No. 370,979, and in Great Britain June 29, 1928. 7 Claims. (Cl. 290—2.)

1. In an automatic control system for turbo-alternators, the combination of a group of high pressure turbines, an intermediate pressure receiver into which the high pressure turbines exhaust, a second group of turbines supplied from the intermediate pressure receiver, a primary group of alternators driven by the high pressure turbines, a secondary group of alternators driven by the turbines of the second group, and means whereby the distribution of the electrical load between the two groups of alternators is controlled in accordance with variations in the pressure in the intermediate receiver and with variations in the frequency of the electrical system supplied by the alternators.



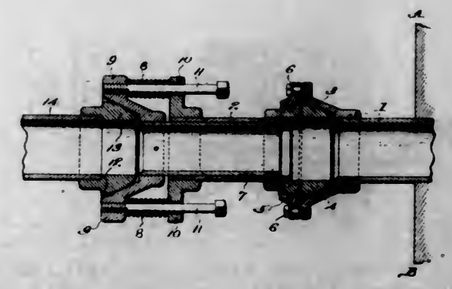
6. In an automatic control system for turbo-alternators, the combination of a group of high pressure steam turbines, an intermediate pressure receiver into which the high pressure turbines exhaust, a second group of steam turbines supplied with steam from the intermediate pressure receiver, means for generating high pressure steam for supply to the first group of turbines, a feed water supply to the steam generating means, means whereby the exhaust steam from some of the turbines of the second group is utilized for preheating the feed water, a primary group of alternators driven by the high pressure turbines, a secondary group of alternators driven by the turbines of the second group, means whereby the supply of steam to the feed-heating turbines is controlled in accordance with the condition of the feed water supply, and means whereby the supply of steam to the turbines of the first group and to the remaining turbines of the second group is controlled in accordance with variations in the pressure in the intermediate receiver.

1,780,692. SHIRT FASTENER. FENTON WRIGHT, Kansas City, Mo. Filed Aug. 7, 1929. Serial No. 383,992. 2 Claims. (Cl. 2—128.)



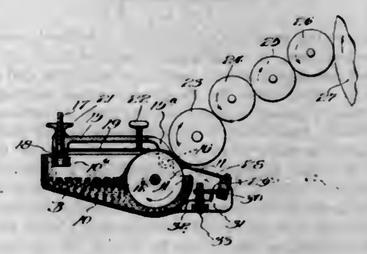
1. A shirt having its body provided with separable portions, one portion having inner and outer slits and intermediate slits, strips having one of their ends secured to the other portion, said strips being passable first through the inner slits and then through the outer slits, said strips being foldable in the outer slits and then passable through the intermediate slits and the inner slits.

1,780,693. EXHAUST CONNECTION. JACOB B. YAEBL, Marion Ohio. Filed Mar. 25, 1926. Serial No. 97,353. 1 Claim. (Cl. 285—70.)



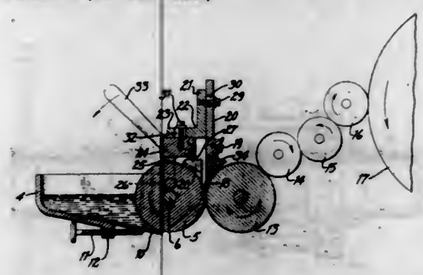
Means for carrying off exhaust from a fire engine when operating in the engine house, the same consisting of a sectional vent pipe having one of the sections fixed in and extending through a wall of the engine house to discharge the exhaust clear thereof, and having a relatively movable section coupled to the fixed section by a universal joint, an extension pipe slidable within the movable section of the vent pipe, spring means normally holding the extension pipe projected, projections on the extension pipe and the movable section of the vent pipe, guides fixed in the projections on the extension pipe and slidable in the projections on the movable section of the vent pipe and having stops adapted to abut the latter projections to limit the forward movement of the extension pipe, an exhaust pipe on the fire engine adapted to freely connect with and disconnect from the said extension pipe, and a universal joint having its elements secured upon the contiguous ends of the said exhaust and extension pipes.

1,780,694. INK FOUNTAIN FOR PRINTING PRESSES. HARLEY C. ALGER, Chicago, Ill., assignor to R. R. Donnelley & Sons Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 9, 1927. Serial No. 173,983. 31 Claims. (Cl. 101—363.)



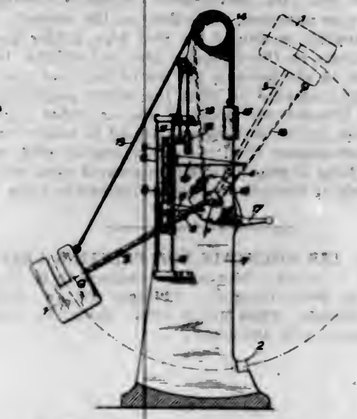
1. In an ink fountain for printing rolls and the like, an ink reservoir, an ink roll adapted to make contact with ink in said reservoir, a second roll spaced a short distance from the first-mentioned roll, and a doctor blade operable on the first-mentioned roll to scrape ink therefrom and cause the ink adjacent the scraping edge of said blade to contact with the second-mentioned roll.

1,780,695. INK FOUNTAIN FOR PRINTING PRESSES. HARLEY C. ALGER, Chicago, Ill., assignor to R. R. Donnelley & Sons Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 1, 1928. Serial No. 316,557. 15 Claims. (Cl. 101—350.)



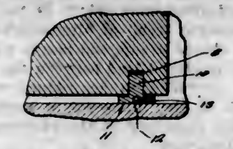
1. In an ink fountain for printing rolls and the like, an ink reservoir, a fountain roller adapted to make contact with ink in said reservoir, a roll spaced a short distance from said roller, and means for transferring the ink from said roller direct to said roll, said means being movable into and out of operative position.

1,780,696. TESTING MACHINE. ALFRED J. AMSLER, Schaffhausen, Switzerland. Filed Dec. 3, 1927, Serial No. 237,492, and in Germany Nov. 7, 1927. 7 Claims. (Cl. 265—13.)



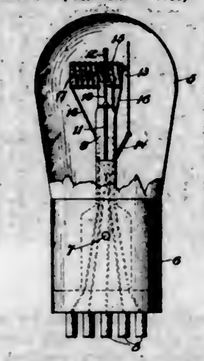
5. A testing machine of the type described, comprising in combination, a pendulum comprising a swingably mounted arm and a weight carried by said arm and adapted to break a test piece by its impact when moving downward from a raised position of the arm, a vertical guide, a uniformly graduated scale adjustable along said guide, a circular member arranged on said arm so that the center of said member is situated on the line passing through the center of gravity of said weight and the turning axis of the pendulum, a horizontal straight edge rigidly fixed to said scale and cooperating with said member for adjusting the scale in height to correspond to the initial position of the pendulum, a further vertically guided, horizontal straight edge acted upon by said member when the pendulum swings in the upward direction after the impact, a hand operatively connected to the latter straight edge and cooperating with said scale for indicating the vertical component of said upward movement and thereby the amount of energy spent in the impact, and a rope brake connected to said pendulum and adapted to automatically brake the movement of the pendulum after it has attained its highest position following upon the impact.

1,780,697. PISTON RING. EDWARD A. BENTON and MATHIUS LINDERNER, Altoona, Pa. Filed Dec. 7, 1929. Serial No. 412,475. 3 Claims. (Cl. 74—109.)



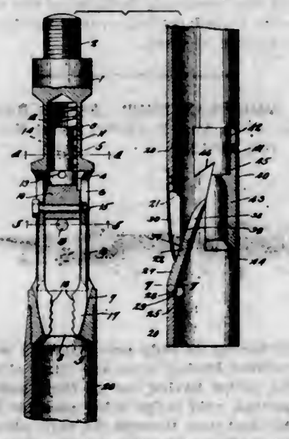
1. A piston ring of the character described comprising an annular ring of substantially T-shaped cross-section having a circumferentially extending oil distributing groove in its outer periphery and oil conducting ports extending therefrom to the forward marginal edge of the ring.

1,780,698. VACUUM TUBE. BERT GRIFFIN BLACKMAN, Ogden, Utah, assignor of one-third to Cleveland Redfield, Ogden, Utah. Filed Sept. 16, 1925. Serial No. 56,677. 3 Claims. (Cl. 250—27.5.)



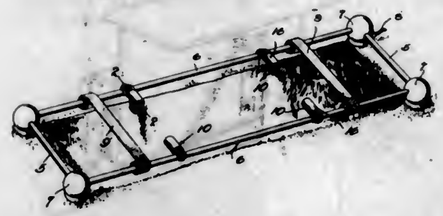
1. In an electron discharge device, an evacuated envelope, an electron emitting filament therein, a flexibly mounted plate of magnetic material located within the envelope, a core, and a control member formed as a coil about said core, the coil being adapted to have passed therethrough the current to be amplified whereby variations in the magnetic field about the coil will influence the plate.

1,780,699. GRAB FOR DRILL RODS AND THE LIKE. HARRY E. BROWN, Wichita, Kans., assignor to Albert H. Neilson, Tulsa, Okla. Filed May 3, 1929. Serial No. 360,924. 8 Claims. (Cl. 294—102.)



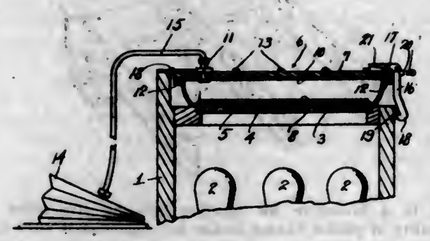
1. A tool of the class described, including a socket member having a lateral opening and superposed bearing portions, and a latch mounted for pivotal movements in said opening having superposed bearing portions cooperative with the bearing portions on the socket to provide a multiple support for the latch and a load carried by the latch.

1,780,700. COFFIN-LOWERING DEVICE. HAROLD J. CORDONNIER and CORBAN H. ZILER, Carthage, Mo. Filed May 13, 1929. Serial No. 362,690. 4 Claims. (Cl. 254—136.)



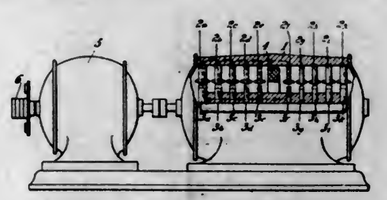
1. The combination with a coffin lowering device comprising rotatable lowering elements and flexible members carried thereby for supporting the coffin, of means also carried by said rotatable elements for initially supporting the coffin above said flexible members.

1,780,701. PHOTOGRAPHIC-PRINTING DEVICE. ROLAND F. CRANE, Cincinnati, Ohio. Filed Nov. 10, 1928. Serial No. 318,465. 1 Claim. (Cl. 95—76.)



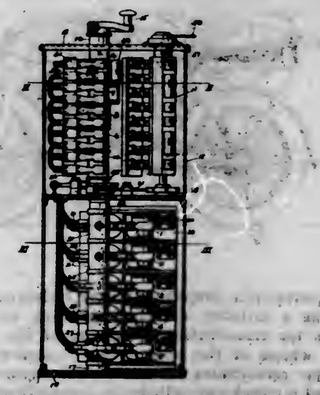
A photographic printing device comprising a light cabinet having a horizontally disposed transparent surface at its upper end for supporting a negative and a sensitized paper in superposed relation thereupon and having its rear wall extended vertically above the said surface for an appreciable distance, a lip projecting outwardly from adjacent the upper edge of the forward wall of the cabinet, a platen hingedly connected at one end to the upper edge of said extended rear wall and adapted when swung into position over the transparent surface to be disposed at an inclination to said surface with its free end resting upon the latter, a pivotal latch depending from the said free end of the platen with its lower end terminating in a hook for engagement with the said lip, said latch being adapted in the inclined position of the platen to extend obliquely with respect to the forward edge of the surface with its hooked end disposed outwardly of and below the said lip, a flat normally deflated pneumatic cushion secured to the inner face of the platen and adapted in the inclined position of the latter to contact with the superposed negative and sensitized paper only at the forward or outer portion thereof, and means for inflating said cushion.

1,780,702. CONSTANT-SPEED MULTIFREQUENCY ELECTRICAL GENERATING APPARATUS. WALTER DOENIG, Berlin-Dahlem, Germany. Filed Jan. 8, 1929, Serial No. 331,100, and in Germany Nov. 28, 1928. 4 Claims. (Cl. 171—252.)



1. A multi-frequency electrical generating apparatus, comprising a multi-frequency generator of the homopolar inductor type having a plurality of independent stator-rotor units of substantially the same diameter; an excitation winding common to all of said units for providing magnetic flux therefor; means for driving said generator; and means for controlling the speed thereof; the air gap distances between successive cooperating rotor and stator units being decreased progressively from the units nearest the exciting winding to those furthest from it, thereby adapting them to independently generate different frequencies.

1,780,703. ELECTRIC CONTROLLER. ROBERT R. DUNLOP, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed June 8, 1923. Serial No. 644,179. 15 Claims. (Cl. 200—6.)



1. In a device of the class described, a plurality of movable circuit closing elements, movable control means operable on said elements in succession for moving the latter into circuit closing position, and means associated with each of said circuit closing elements and made successively operable in dependence upon the movement of said control means for engaging said elements in the closed position and releasing them upon another movement of said control means.

1,780,704. METAL WHEEL AND METHOD OF MAKING THE SAME. ERNEST E. EINERSEN, Davenport, Iowa, assignor to French & Hecht, Incorporated, a Corporation of Iowa. Filed Aug. 3, 1929. Serial No. 383,225. 7 Claims. (Cl. 153—10.)

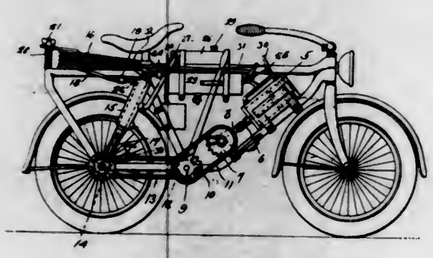
1. The method of making metal wheels, which includes providing an annular hollow rim having holes there-

through to receive the spoke ends, inserting the ends of the spokes in said holes, and fastening the rim to the spokes by deforming the rim to force the walls of the holes in firm engagement with the spokes.



6. In a metal wheel, the combination of a hub, spokes fixed thereto, and a hollow rim formed with holes in which the outer end of the spokes extend, said rim being permanently deformed at points adjacent the location of the holes, and the side walls of the latter being in firm and fixed engagement with the sides of the spokes.

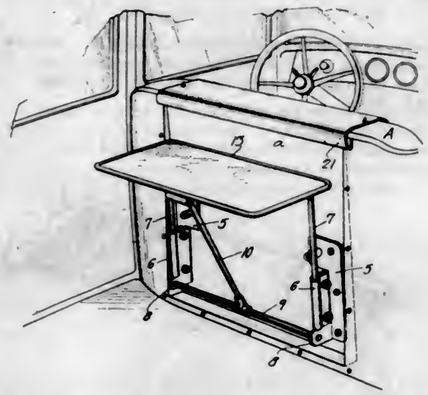
1,780,705. AIR-PROPELLED MOTOR CYCLE. ROBERT E. FORMAN, Cincinnati, Ohio. Filed June 1, 1928. Serial No. 282,149. 1 Claim. (Cl. 180—33.)



A motor-cycle propelling means including a motor embodying a cylinder, a piston operating in the cylinder, means for transmitting movement of the piston to the drive wheels of the motor-cycle, a compressed air tank, a pipe establishing communication between the compressed air tank and cylinder, a manually operated expansion tank for providing the initial supply of compressed air to the compressed air tank, a pipe for establishing communication between the compressed air tank and expansion tank, a compressor operated by the momentum of the motor-cycle, a pipe establishing communication between the compressor and the expansion tank, a water tank mounted above the compressor, a pipe establishing communication between the water tank and the compressor for delivering drops of water to the compressor.

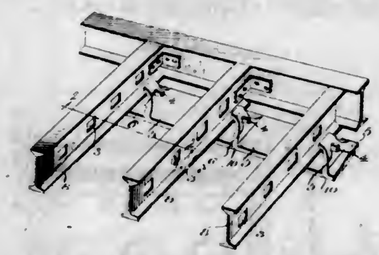
1,780,706. AUTOMOBILE TABLE. FRANK GOLDBECHER, Grantwood, N. J. Filed Feb. 12, 1929. Serial No. 339,415. 3 Claims. (Cl. 45—51.)

1. In a table unit of the character described, a pair of bracket members adapted to be secured to a support, supporting bars attached at their lower ends to said brackets, a cross member arranged between the brackets beneath said supporting bars, a further bar pivoted at its lower end to said cross member, a table board, slidable and pivotal connections between the board and the upper ends of said first mentioned bars, a slidable and pivotal connection between said board and the upper end of said pivoted bar, said first mentioned slidable and pivotal



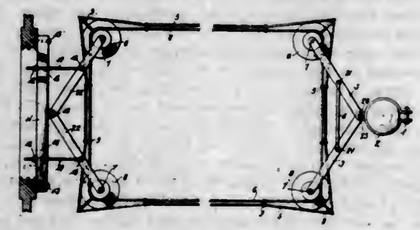
connections in each instance consisting of a channel member associated with the table board, a pin slidable therein, and a member carried by said pin for pivotal attachment to the upper end of the adjacent bar.

1,780,707. BUILDING CONSTRUCTION. FRED H. HALSEY, Texarkana, Ark. Filed Feb. 26, 1929, Serial No. 342,760. Renewed Sept. 18, 1930. 6 Claims. (Cl. 72—67.)



2. In a structure for forming building structures, a plurality of panels having means for engagement with the beams of a building, and wedge elements engageable with the adjacent ends of adjacent panels to hold the same in place.

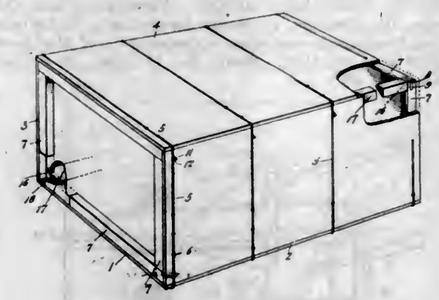
1,780,708. CLOTHES LINE AND DRIER. HERBERT THOMAS HORSCRAFT, Valley Stream, and WILLIS LEROY KING, St. Albans, N. Y. Filed Apr. 26, 1929. Serial No. 358,388. 4 Claims. (Cl. 68—3.)



4. In a device of the character described, a supporting member comprising an elongated bar, divergent lever

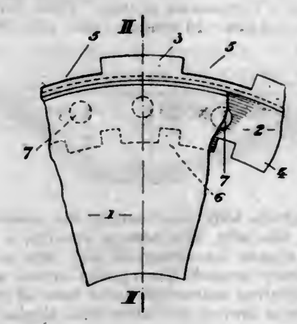
arms co-axially pivoted thereto, a pulley at the free end of each lever arm, means intermediately connecting each lever arm and the supporting member for adjusting the position of each lever arm, said adjusting means comprising a bolt pivotally attached to each lever arm, said bolt extending through the supporting member, and means to secure the bolt in position.

1,780,709. WIRE-BOUND BOX AND METHOD OF MAKING THE SAME. EDWARD T. JOHNSON, Greenfield, Mass., assignor to The New England Box Company, Greenfield, Mass., a Corporation of Massachusetts. Filed Dec. 23, 1929. Serial No. 416,071. 9 Claims. (Cl. 217—12.)



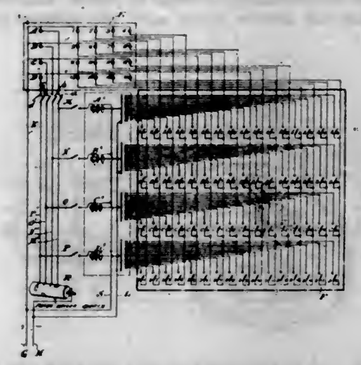
1. A wire bound box comprising a mat formed of a bottom, two sides and a cover, the pieces of the mat being stitched together with wire, two end pieces, the said end pieces having their corners cut off, the mat when shaped nailed to said end pieces, four longitudinal pyramidal strips having their bases lying adjacent the respective cut-off corners of the end pieces, the mat tightly encircling said longitudinal strips and the ends of the wire stitching adapted to be respectively secured to each other to thereby tightly bind the box together.

1,780,710. FRICTION BODY FOR FRICTION COUPLINGS, BRAKES, AND THE LIKE. HANS KATTWINKEL, Coswig, Germany. Filed Jan. 30, 1928, Serial No. 250,635, and in Germany Jan. 26, 1927. 6 Claims. (Cl. 192—107.)



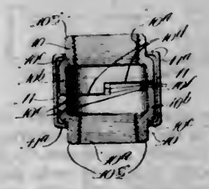
1. A friction element comprising a disc of frictional material, and a metal rim provided with a plurality of driving projections and forming a single endless annular piece which is partly embedded into said frictional material, the driving projections of said rim being formed by folding around the respective portions of the rim.

1,780,711. CALL SYSTEM. IRA JEAN LICHTER, Teaneck, N. J. Filed Oct. 1, 1929. Serial No. 396,466. 8 Claims. (Cl. 177—353.)



1. In a call system, a display panel and a call board, a plurality of signal devices at the display panel forming one group, a second group of signal devices at the display panel, banks of call switches at the call board corresponding in number of banks to the number of signal devices in the first named group, each of said banks including a switch for each of the signal devices in the second group, circuits from said switches to the signals of the second group and means for successively and intermittently energizing the signals of the first group and simultaneously therewith energizing the banks of switches successively.

1,780,712. FLEXIBLE COUPLING. ROBERT L. LITTLE, Chicago, Ill., assignor to Lindsay Light Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 27, 1927. Serial No. 187,017. 1 Claim. (Cl. 285—193.)

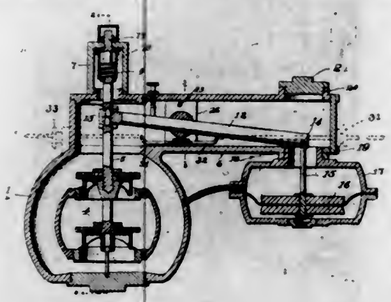


A coupling of the character described, comprising two tubular members having their outer ends provided with threads and their inner ends enlarged to form shoulders, a supporting casing holding the tubular members together, said casing surrounding the enlarged ends and provided with inwardly projecting flanges at its inner ends to engage the shoulders, the internal diameter of the flanges at the ends of the casing being greater than the external diameter of the outer ends of the tubular members and the internal diameter of the central part of the casing being greater than the external diameters of the enlarged inner ends of the tubular members, whereby relative movement of said tubular members out of alinement is permitted, and co-operating means on the enlarged ends of the tubular members to prevent relative rotation of each of the same with respect to the other, said means comprising co-operating recesses and projections on the enlarged ends forming shoulders adapted to engage to prevent such rotation.

1,780,713. CONTROL OR POWER LEVER MECHANISM. ANDREW J. MCEWAN, Tulsa, Okla. Filed Sept. 30, 1926. Serial No. 138,782. 2 Claims. (Cl. 74—5.)

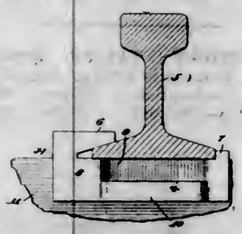
1. In a power mechanism, a casing of restricted cross-sectional dimensions, a fulcrum block of the same cross-

sectional shape as the casing and slidably engaging the walls thereof, a roller carried by said fulcrum block, a lever pivotally mounted by said roller on the block and shiftable longitudinally through the block, counteracting force applying devices acting upon the opposite ends of



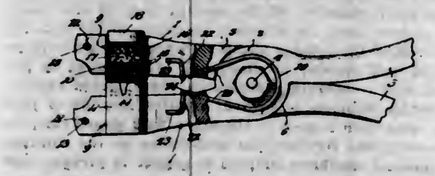
the lever, and means connected with the block and extending to the exterior of the casing whereby the block may be adjusted to vary the fulcrum point of the lever and the force applying ratios of the force applying devices acting on the ends thereof.

1,780,714. RAILWAY-RAIL ANCHOR. HARRY G. NORWOOD, Washington, D. C., assignor to Theodore F. Von Dorn, New York, N. Y. Filed Apr. 3, 1930. Serial No. 441,285. 5 Claims. (Cl. 238—330.)



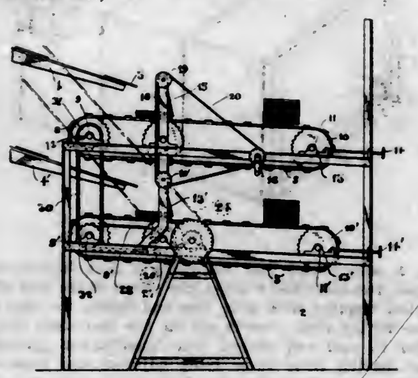
1. A rail anchor formed from a single piece adapted to be fixedly secured to the rail base, comprising a body portion formed with laterally and oppositely disposed formations intermediate its ends, said body portion having a slit therethrough intermediate its ends, and a rail clamping member at each end portion thereof.

1,780,715. POULTRY MARKER. ELMER D. OLSON, Grand Island, and WILLIAM A. HORTON, Hastings, Nebr.; said Olson assignor to H. B. Horton, Des Moines, Iowa, and C. E. Linn, Hastings, Nebr. Filed Jan. 29, 1930. Serial No. 424,429. 4 Claims. (Cl. 101—26.)



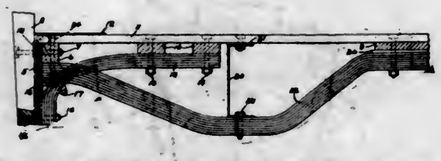
4. A poultry marker comprising jaws pivotally connected and having handles extending therefrom, said jaws being each split longitudinally and formed with a socket in spaced relation to its free forward end, alined openings being formed transversely through said jaws in front of said sockets, a die fitted into the socket of one jaw and having character forming pins extending from its inner end, a block fitted into the socket of the other jaw and formed with a pocket opening through its outer end and a head at its inner end, perforations being formed through the head to receive said pins and opening into said pocket whereby the pins may be moistened with marking fluid in the pocket, a removable closure for the open outer end of said pocket, a spring to normally hold the jaws spread apart consisting of a resilient strand bent to form a U-shaped portion fitting against a side face of said marker about the pivotal connection for said jaws and having arms extending forwardly along the jaws and having their forward portions bent inwardly across the jaws and engaged in the longitudinally extending slits thereof back of the sockets, and securing bolts engaged through the transverse openings in the jaws.

1,780,716. SHINGLE STACKER. EDWARD C. OTIS, Chicago, Ill., assignor, by mesne assignments, to Certain-teed Products Corporation, a Corporation of Maryland. Filed Feb. 26, 1927. Serial No. 171,230. 10 Claims. (Cl. 198—35.)



1. A stacker for sheet elements comprising an endless conveyor on which the sheet elements are accumulated, means against which the elements are projected for aligning said elements in a stack upon the conveyor, means for rotating the aligning means from the path of the stack when any number of elements have accumulated, and means for actuating the stack to a remote point.

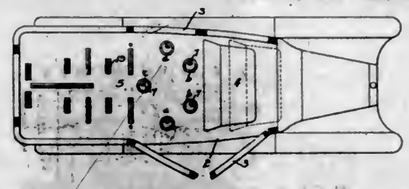
1,780,717. VEHICLE BODY CONSTRUCTION. SYDNEY PAUL, Lima, Ohio, assignor to Superior Body Company, Lima, Ohio, a Corporation of Ohio. Filed Nov. 2, 1928. Serial No. 316,660. 13 Claims. (Cl. 296—28.)



1. In a vehicle body construction, the combination of longitudinal side sills, intermediate sub-sills, a floor laid thereon, outriggers connecting the side sills to the sub-sills and rigidly secured thereto, and struts with their outer ends abutting against the inner faces of the respective side sills to prevent the latter from sagging.

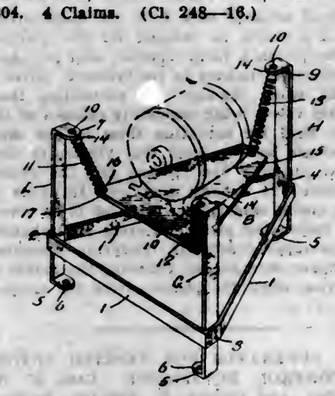
1,780,718. FUNERAL CAR. SYDNEY PAUL, Lima, Ohio, assignor to Superior Body Company, Lima, Ohio, a Corporation of Ohio. Filed July 22, 1929. Serial No. 380,082. 2 Claims. (Cl. 296—16.)

1. In a funeral car having a side opening for the introduction of a casket, a set of three turn-tables mounted in the floor structure of the car, one turn-table being disposed adjacent to said opening near the rear end thereof, another being mounted slightly inwardly and forwardly with respect to said first turn-table, and another being mounted rearwardly of the first turn-table and substan-



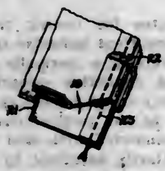
tially in the longitudinal center line of the car, said turn-tables each adapted for free turning movements in the floor plane of the car and having a casket supporting roll at its top portion in off-set relation to the table axis with its axis tangential to a circle concentric to the table axis.

1,780,719. MOTOR SUSPENSION. THORNTON W. PRICE, New Brunswick, N. J. Filed Nov. 6, 1928. Serial No. 317,604. 4 Claims. (Cl. 248—16.)



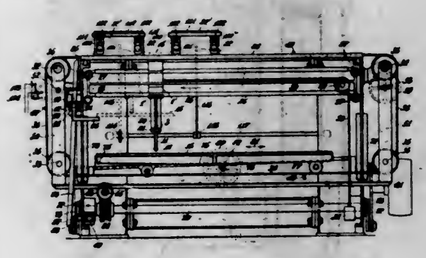
1. A motor suspension comprising a motor platform, a plurality of tension springs by which said motor platform is suspended so as to be freely movable in all lateral directions, and a plurality of substantially vertically disposed leaf springs having upper ends from which the upper ends of said tension springs are suspended, together with supporting means for said leaf springs engaging the lower end portions thereof.

1,780,720. METHOD OF FORMING VALVE BAGS. JOHN C. REDINGTON, Geneva, Ill., assignor, by mesne assignments, to St. Regis Paper Company, New York, N. Y., a Corporation of New York. Filed Sept. 17, 1928. Serial No. 306,323. 4 Claims. (Cl. 93—35.)



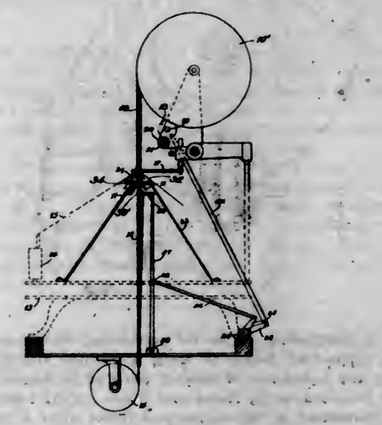
1. A method of providing a bag, comprising a plurality of relatively movable walls, with a tucked-in valve and a sleeve in that valve, which comprises first tucking in the corner of the bag to provide a valve, folding a sheet, slipping the sheet between the walls of the bag at said tucked in corner with the ends of the sheet parallel with the end of the bag, and thereafter forming an end closure across the ends of the bag and the ends of the sheet.

1,780,721. DEVICE FOR THE MANUFACTURE OF DOWELED WOODEN BOARDS. HANS SCHEIDEMANDEL, Munich, Germany. Filed June 1, 1927, Serial No. 195,627, and in Germany May 12, 1926. 11 Claims. (Cl. 144—31.)



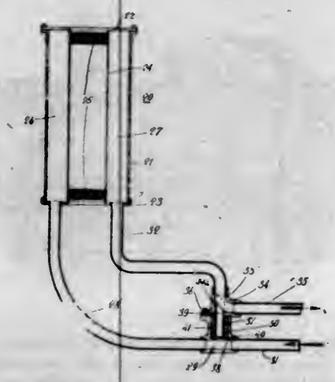
1. An apparatus for the manufacture of doweled wooden plates from boards comprising means for holding said boards in the same plane, means for pressing said boards together, and releasable means adapted to hold a dowel immovable relative to the dowel holding means against the pressure transmitted through the boards and mounted to be shiftable by the boards, as pressed, so that when the dowel has sufficiently penetrated one board it must move therewith to a corresponding distance into the opposing board.

1,780,722. ELECTRIC CONDUCTOR. EDWIN J. SCHNEIDER, Jamaica, and PETER WIGGINS, Maspeth, N. Y., assignors to Eastern Tube and Tool Co., Inc., Brooklyn, N. Y., a Corporation of New York. Filed Mar. 25, 1929. Serial No. 349,589. 7 Claims. (Cl. 173—244.)



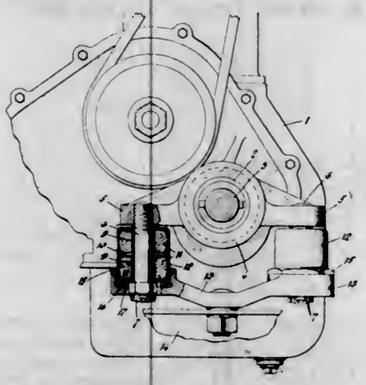
1. The herein described method of manufacturing cable of the class specified which consists in feeding insulated conductors into the machine, applying an outer casing or jacket to said conductors in forming said cable and feeding a ground conductor with the first named conductors, arranging the same between said conductors and imparting intermittent lateral movement to the ground conductor in a plane transverse to the path of movement of the first named conductors to dispose said ground conductor alternately at opposite sides of the longitudinal center of the first named conductors.

1,780,723. CONTROL FOR OIL FILTERS. CHARLES R. SHORT, Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich, a Corporation of Delaware. Filed June 3, 1926. Serial No. 113,488. 18 Claims. (Cl. 210—166.)



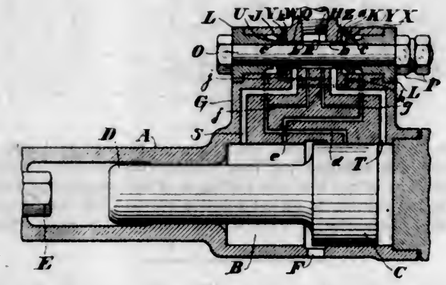
1. The combination of a filter having inlet and outlet passages and means for maintaining a substantially uniform pressure differential in the respective passages.

1,780,724. RUBBER ENGINE SUPPORT. CHARLES R. SHORT, Detroit, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed Oct. 20, 1926. Serial No. 142,945. 3 Claims. (Cl. 248—14.2.)



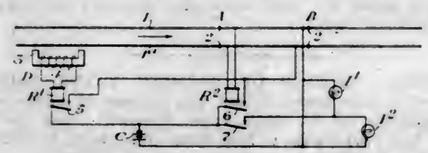
3. A cushioning device for preventing the transmission to a supporting frame of small amplitude vibrations set up by the unbalance of moving parts of an engine or like body mounted in the frame and which rigidly resists relative movement of the engine and frame after a predetermined limit is reached, including in combination with an engine and a frame, of a casing to be interposed between parts on the engine and frame and fastened to one of said parts, a stud fastened to the other of said parts, a pair of spacer sleeves on said stud, a plate-like member held between said sleeves and within the casing, a nut on the stud to hold the parts in assembled relation and elastic deformable material on opposite sides of said plate-like member and confined within said casing under initial deformation and held by the casing against deformation beyond a predetermined limit, whereby small amplitude vibrations are cushioned and large movements rigidly resisted.

1,780,725. VALVE MECHANISM FOR ROCK DRILLS. WILLIAM A. SMITH, Sr., Easton, Pa., and WILLIAM A. SMITH, Jr., Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Dec. 14, 1928. Serial No. 325,987. 4 Claims. (Cl. 121—18.)



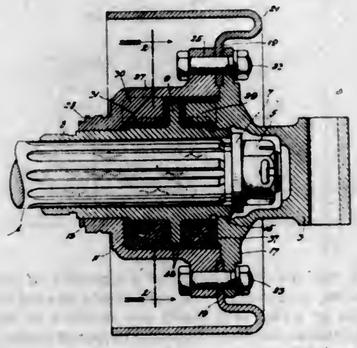
1. In a fluid actuated rock drill, the combination of a cylinder and a piston, an exhaust for the cylinder controlled by the piston, a valve chamber, inlet passages leading from the valve chamber to the cylinder, valves in the ends of the valve chamber for controlling the inlet passages, said valves being constantly exposed at one end to pressure fluid for actuating them in one direction, tripper passages leading from the cylinder to the ends of the valve chamber and opening into the cylinder at points between the exhaust port and the ends of the cylinder to enable said tripper passages to be covered by the piston before the piston uncovers the exhaust port, and leak passages constantly conveying pressure fluid into the tripper passages for throwing the valves in the other direction when the piston covers the tripper passages.

1,780,726. APPARATUS FOR TESTING AUTOMATIC TRAIN-CONTROL EQUIPMENT. CARL F. STOLTZ, Delhi, Ohio, and GEORGE W. FERLING, Indianapolis, Ind., assignors to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed June 2, 1928. Serial No. 282,457. 2 Claims. (Cl. 175—183.)



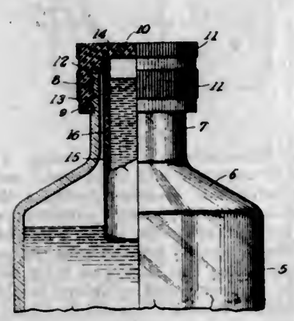
1. Roadside apparatus for testing the train carried equipment of an intermittent inductive train control system of the type involving a normally energized train carried receiver, said apparatus comprising a winding located in the trackway in such position as to have current induced therein by the receiver during the passage of a train, a relay connected with said winding and arranged to be momentarily energized by the current induced in the winding by the train carried receiver, a stick relay having a pickup circuit controlled by a front contact of said first relay and a stick circuit excluding the front contact of the first relay but including a front contact of the stick circuit, means including a track circuit located in advance of said winding for opening said stick circuit, and an indicating device controlled by said stick relay.

1,780,727. RUBBER COUPLER. PERRY L. TENNEY, Muncie, Ind., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Sept. 29, 1926. Serial No. 138,512. 4 Claims. (Cl. 64—96.)



2. A coupling comprising a driving sleeve having an intermediate radial web, vanes on each side of said web extending radially from the sleeve and axially from each side of said web, a driven member comprising an outer sleeve and a flange member secured thereto, vanes radially extended inwardly from the outer sleeve on one side of said web and vanes axially extended inwardly from said flanged member between the vanes on the other side of said web, resilient means between said vanes to resist relative movement thereof.

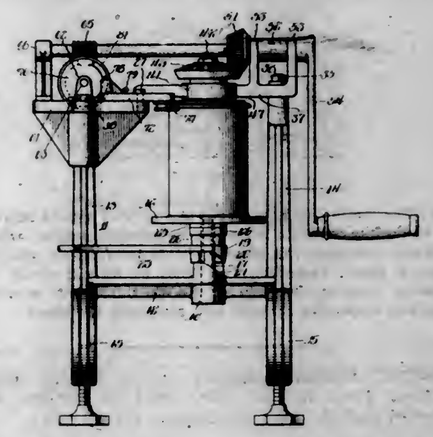
1,780,728. BOTTLE STRUCTURE. CALVIN R. WEBBER, New York, N. Y., assignor to The Packer Manufacturing Co., Inc., New York, N. Y., a Corporation of New York. Filed Jan. 9, 1929. Serial No. 331,311. 3 Claims. (Cl. 215—6.)



1. A main container having a cap provided with two internal screw threads of different diameters removably engaged over its mouth by the larger diametered threads, and a second container engaged by the smaller diametered thread to said cap to extend into the neck of said bottle.

1,780,729. CAN-CLOSING MACHINE. JULES WERY, Deerfield, Ill.; May Wery, administratrix of said Jules Wery, deceased, assignor to Samuel G. Gorsline, River Forest, Ill. Filed Aug. 15, 1928. Serial No. 299,771. 8 Claims. (Cl. 113—22.)

1. In a hand-portable can seaming machine, a frame comprising a base, a pair of spaced posts upwardly extending from said base and a cross member connecting the upper ends of said posts, a can holder mounted on said base, a chuck mounted on said cross member opposite said can holder for rotating a can held on said holder,



a shaft on said cross member for rotating said chuck, a seaming roller supported on said frame, and a driving connection between said roller and said shaft for moving said roller into seaming poistion by rotation on said shaft.

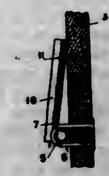
1,780,730. HOIST ANCHORAGE FOR CAR ROOFS. ALFRED R. WILSON, Detroit, Mich., assignor, by mesne assignments, to Hutchins Car Roofing Company, Detroit, Mich., a Corporation of Delaware. Filed Mar. 1, 1926. Serial No. 91,598. 15 Claims. (Cl. 105—355.)



1. The combination with a sloping car roof including a ridge pole and series of carlines, of a beam etxending longitudinally beneath said carlines in spaced relation to said roof and rigidly attached to said carlines to constitute a hoist anchorage, the said beam being located above the plane of the edge portions of said roof.

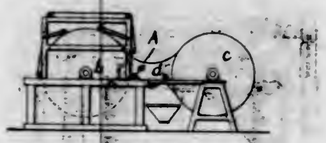
2. The combination with a car roof having a ridge pole and a series of carlines extending transversely thereof, of a beam extending longitudinally and centrally beneath said carlines in spaced relation to said roof and rigidly attached to said carlines, said beam constituting a hoist anchorage located above the plane of the ends of said carlines.

1,780,731. METAL-LATH SUPPORT. THOMAS A. WRAY, University City, Mo. Filed Feb. 13, 1930. Serial No. 428,000. 9 Claims. (Cl. 72—118.)



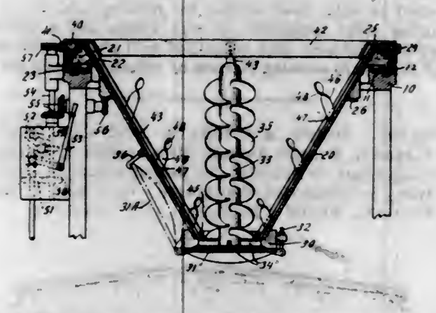
1. A bulk sheet of building material provided with a plurality of spacing strips adapted to fold against it, said strips having means to receive a fastener whereby they may be held in extended position.

1,780,732. METHOD OF AND APPARATUS FOR APPLYING CAKE REENFORCEMENTS. FRANK W. YOUNG, Verona, N. J. Filed July 27, 1926. Serial No. 125,261. 5 Claims. (Cl. 210—199.)



2. The method of applying a plurality of spaced strands in encircling relation about a cylindrical element which includes securing the strands in predetermined position upon a sheet, encircling the sheet so formed about the element, causing the ends of the sheet to abut, securing together respective strands and removing the sheet.

1,780,733. MIXER. KEMPTON ADAMS, Redding Ridge, Conn. Filed Apr. 12, 1928, Serial No. 269,406. Renewed Sept. 6, 1929. 18 Claims. (Cl. 83—73.)



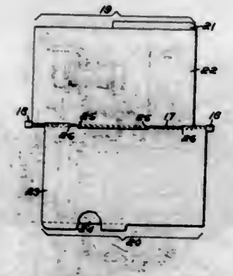
1. A mixer comprising a receptacle arranged to be rotated about a substantially vertical axis, means therein for moving material upwardly and outwardly, and other means therein for moving material inwardly and turning it over.

1,780,734. TOY PARACHUTE. PERRY ANDERSON, Milwaukee, Wis. Filed Oct. 31, 1929. Serial No. 403,847. 2 Claims. (Cl. 46—52.)



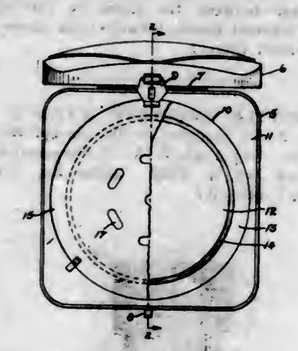
1. A toy parachute comprising a section of wire having a substantially S-shaped bend therein, a canopy portion secured to said section of wire, an elongated yielding band having one end secured at a distance from said bend and having its other end extended across one portion of the S-shaped bend and looped into the adjacent portion thereof, the free end of said canopy portion being engageable against the tension of said band with the first mentioned portion of the S-shaped bend to hold the canopy in doubled over position during ascent, said yielding band acting to cause disengagement of the free end of the canopy portion when the device has reached the limit of its upward movement.

1,780,735. PAPER FILE. CHARLES E. ATTWOOD, Jamestown, N. Y., assignor to Postindex Company, Inc., Jamestown, N. Y., a Corporation of Massachusetts. Filed Feb. 27, 1930. Serial No. 431,747. 9 Claims. (Cl. 129—16.7.)



6. In a file, the combination of a plurality of sheets, a sheet carrier, said carrier and said sheets having cooperative means by which said sheets are attached to said carrier, said means having provision to permit said sheets to be moved laterally relatively to each other and relatively to said carrier.

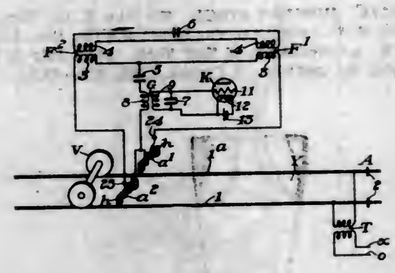
1,780,736. COMPACT. EDWARD W. BASSETT, Toledo, Ohio, assignor to The Celma Company, Toledo, Ohio, a Corporation of Ohio. Filed July 1, 1929. Serial No. 375,186. 1 Claim. (Cl. 132—83.)



A compact comprising an outer casing, a container formed from a single piece of sheet metal and disposed within said casing, said container having a circular bottom, an annular raised platform extending about said bottom and an upstanding rim at the outer edge of said platform, a frame secured between said rim and the periphery of said casing and having an inner flange drawn over said rim to secure said container in place, and a flexible perforated partition extending across said container and resting on said platform.

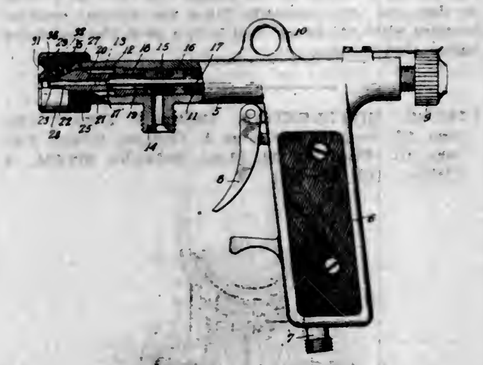
1,780,737. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. GEORGE W. BAUGHMAN, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Oct. 29, 1929. Serial No. 403,198. 8 Claims. (Cl. 246—63.)

1. In combination, a stretch of railway track, means for so supplying said stretch with periodically varying current that at a given instant said current flows in one direction along one rail of the track and in the opposite direction along the opposite rail of the track, a device in which current is induced by current flowing along said first rail, a second device in which current is induced by current flowing along said opposite rail, a first transformer, a second transformer, a circuit including the primary windings of said transformers and said first and second devices so connected in series that current induced in said first device by current flowing in one direction in said first rail opposes current induced in said second device by current flowing in the opposite direction in said opposite rail, a railway traffic control means so connected



with said circuit as to complete a second circuit including said first device and the primary winding of said first transformer and to complete a third circuit including said second device and the primary winding of said second transformer, and a fourth circuit including the secondary winding of said transformers.

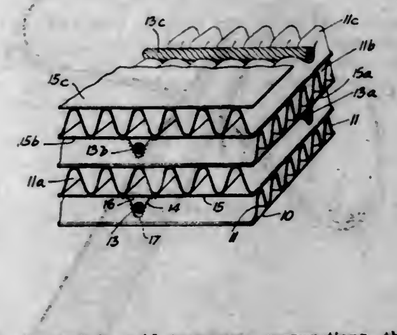
1,780,738. SPRAY NOZZLE. WILLARD C. BEACH, Newark, N. J. Filed Mar. 30, 1927. Serial No. 179,428. 4 Claims. (Cl. 91—45.)



1. A spray nozzle comprising a two part body, one of said parts having means to engage the barrel of a spray gun and containing an annular recess bevelled outwardly at its outer edge, the other part being connected to the first part and containing an annular air equalizing chamber, a conical guard on the last named part entering the chamber, said guard containing an inverted conical cavity presenting a thin annular edge midway the mentioned bevelled recess, a mixing chamber at the bottom of said cavity, a port leading outwardly from the mixing chamber, an angularly walled annular recess in the face of the second part, and two ports disposed diametrically opposite to lead from the outer wall of the recess to the air equalizing chamber.

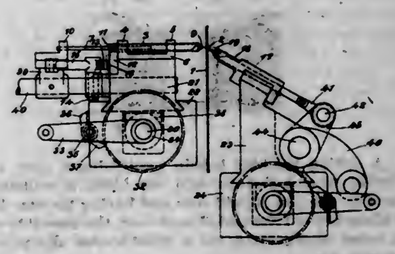
1,780,739. INSULATING BLOCK. JOSEPH BERG, Long Island City, N. Y. Filed Apr. 12, 1930. Serial No. 443,753. 4 Claims. (Cl. 154—28.)

4. A cellular insulating block comprising a plurality of corrugated sheets, each sheet having a series of transverse corrugations on one face thereof, flat sheets interposed between said corrugated sheets, relatively thick



cords disposed in said transverse corrugations, thereby providing a plurality of relatively short cells, and sealing strips for the side edges of said block.

1,780,740. KNOTTING DEVICE FOR MACHINES FOR MANUFACTURING KNOTTED CARPETS. ALBERT BLUM, Rapperswil, Switzerland, assignor, by mesne assignments, to Aktiengesellschaft für Mechanische Knüpfteppiche System Boyer, Zurich. Filed July 25, 1928, Serial No. 295,813, and in Switzerland May 7, 1928. 10 Claims. (Cl. 139—4.)

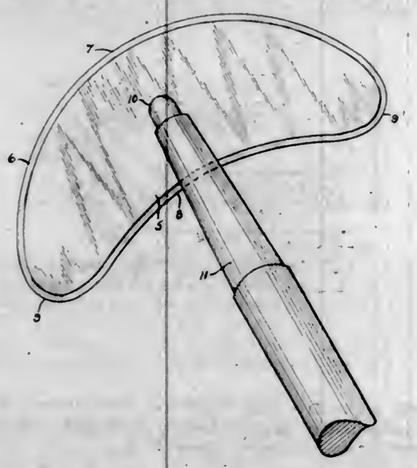


1. In a machine for the manufacture of knotted carpets, knotting tools including a catcher and a knotter, means for moving one of said tools for engaging a pile thread to draw the same over predetermined warp threads, means for turning said tool after the same has drawn the pile thread over the predetermined warp threads thereby crossing the ends of the pile thread, and means for then moving the other tool to engage the crossed pile thread to draw the same between said warp threads, thereby tying the pile thread to the warp threads.

1,780,741. WEED CUTTER. JOHN CADWALLADER, Tiffin, Ohio, assignor to The Monarch Manufacturing Company, Tiffin, Ohio, a Corporation of Ohio. Filed Mar. 7, 1929. Serial No. 344,951. 1 Claim. (Cl. 97—68.)

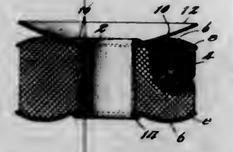
In a tool of the class described, the combination of a handle with a flat blade secured to one end thereof at such an angle that it engages the ground substantially parallel with the surface thereof when the handle is held naturally in the hands of the operator, said blade having opposite arcuate edges, the centers of both arcs being in a line

directly beneath the handle when so held, the inner arc having the greater radius, both faces of said blade having



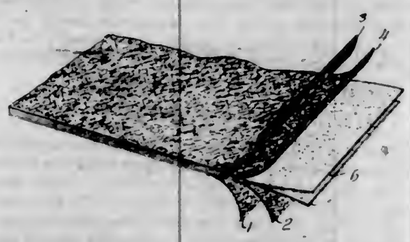
broad rounded ends merging into said arcuate edges, the entire peripheral edge of the blade being beveled toward the bottom surface thereof.

1,780,742. SEWING-MACHINE BOBBIN. ROBERT K. CLARK, Springfield, Mass., assignor to The American Thread Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 12, 1929. Serial No. 332,119. 6 Claims. (Cl. 112—251.)



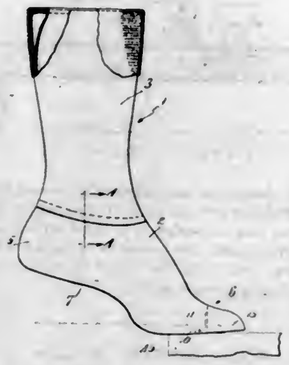
1. A sewing machine bobbin comprising a core, a mass of thread wound thereon into cop form, a resilient disk secured to one end of said core and having its edge located in a plane beyond the end of said core, the rear side of said disk being unsupported for a considerable distance from its periphery.

1,780,743. LAMINATED WALL BOARD. PHILIP W. CODWISE, Kenmore, N. Y., assignor to Certain-teed Products Corporation, New York, N. Y., a Corporation of Maryland. Original application filed Feb. 23, 1928, Serial No. 256,091. Divided and this application filed June 13, 1928. Serial No. 284,962. 9 Claims. (Cl. 154—2.)



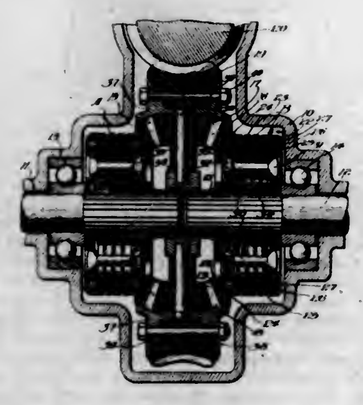
9. The process which comprises beating into a pulp with water a mixture of substantially 35 percent paper waste, 35 percent wood flour and 30% ground wood, shaping said pulp into plies, compressing a plurality of such plies between plies of sized wood pulp screenings and sawdust to form a coherent layer with rough surfaces and a thickness of about .080 inches and ultimately cementing a plurality of said layers together to form a rigid board serviceable as a plaster base board substantially as described.

1,780,744. HOSIERY FORM. WILLIAM J. DE WITT, Auburn, N. Y., assignor to The Shoe Form Co., Inc., Auburn, N. Y., a Corporation of New York. Filed July 3, 1928. Serial No. 290,252. 7 Claims. (Cl. 223—18.3.)



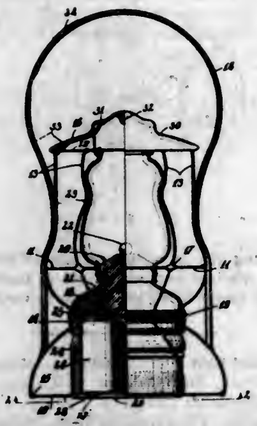
1. A hosiery form replicating the human leg and foot and having a weight at the forepart of the foot portion so that the form normally takes the natural position assumed when the human foot is in a shoe, the heel being higher than the toe.

1,780,745. DIFFERENTIAL. GEORGE F. ECKART, Chicago, Ill., assignor to George A. Chritton, trustee, Chicago, Ill. Filed Jan. 14, 1929. Serial No. 332,504. 3 Claims. (Cl. 74—99.)



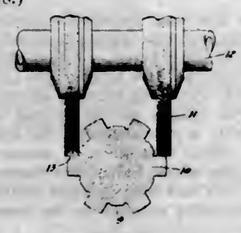
1. In a differential, oppositely extending axle shafts, flanged members keyed thereon, opposed bevel gears rotatably mounted on said flanged members, helical spring means connecting each of said flanged members and its bevel gear, radius rods connecting said bevel gear and flanged member, and means for simultaneously driving said bevel gears.

1,780,746. LAMP. RODOLFO E. ELIZONDO, Monterrey, Mexico. Filed June 26, 1929. Serial No. 373,728. 3 Claims. (Cl. 240—10.5.)



1. A lamp of the class described, comprising a wire frame, a block supported therein, a lamp mounted on the block, a lamp glass encircling the lamp, battery cells mounted in the block and electrically connected with the lamp, springs swivelingly mounted for holding the battery cells in place and formed with slots, and means for simultaneously moving said springs into inoperative positions including pins engaging in said slots and supported on a ring adjustable in said block.

1,780,747. FINISHING SPLINE SHAFTS. FORREST T. ELLIS, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 16, 1926. Serial No. 116,353. 5 Claims. (Cl. 51—278.)



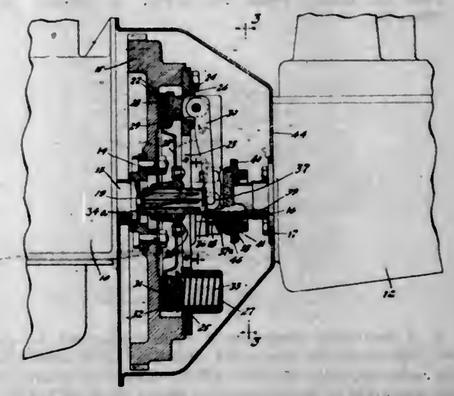
1. The method of finishing a spline shaft which consists in rocking to and fro and moving the shaft axially and simultaneously grinding the surface between two adjacent splines.

1,780,748. LITTER-GATHERING DEVICE. ALBERT H. FISHER, East Cleveland, Ohio, assignor to Herbert B. Sabin, Cleveland, Ohio. Filed Sept. 30, 1929. Serial No. 396,210. 4 Claims. (Cl. 55—10.)



1. An article of the character described having in combination a cross member, adapted in use to provide a substantially horizontal support, a handle connected with said cross member, and a plurality of outwardly extending spaced flexible rubber members mounted on said cross member and of increasing resiliency toward their free ends.

1,780,749. CLUTCH. ALBERT W. FREHSE and CLEMENTS G. BELDEN, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 21, 1926. Serial No. 117,482. 2 Claims. (Cl. 192—110.)

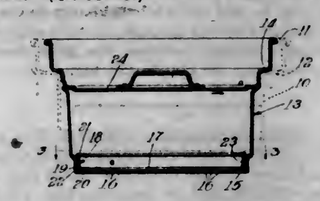


1. The combination with a clutch casing and a clutch mounted therein, of a clutch shaft, a clutch release collar operatively in engagement with the said shaft and provided with a curved concave bearing surface, a bearing mounted about the shaft, an annular antifriction shoe carried in the said bearing for engagement with the curved surface of the release collar, an oscillating lever fulcrumed within the said casing and having bifurcated arms engaging with the said bearing, a spring extending about the transverse axis of the said lever and engaging with lugs formed on the sides of the bearing whereby the latter is urged rearwardly out of engagement with the release collar.

1,780,750. METHOD OF PREPARING CELLULOSE PULP. HARRY L. HORN, New York, N. Y., assignor to Bagasse Development Inc., a Corporation of New York. Filed Dec. 2, 1929. Serial No. 411,219. 6 Claims. (Cl. 92—9.)

1. A method for preparing cellulose pulp from cellulose bearing material such as bagasse, straws, grasses, wood, cornstalk and the like, consisting in simultaneously cooking, beating and electrically and chemically treating the cellulose bearing material.

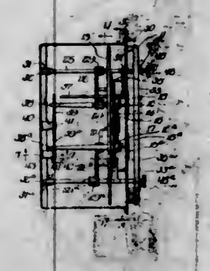
1,780,751. COFFEE-MAKING DEVICE. JOHN D. HOUCK, Chicago, Ill. Filed Dec. 8, 1928. Serial No. 324,648. 2 Claims. (Cl. 53—3.)



1. In a device of the character described and having a container provided with a perforate bottom, the marginal portion of the bottom being imperforate, the bottom adapted to receive a filter sheet, the marginal edge of

which rests upon said imperforate margin, and a filter sheet holding ring having internal flanges at its top and bottom, the bottom flange adapted to clamp the marginal edge of a filter sheet upon the imperforate marginal edge portion of the bottom, said ring adapted to frictionally engage the side wall of the container adjacent to the bottom and the upper flange serving as a finger hold for removing the ring.

1,780,752. CONTROLLING DEVICE. FREDERICK C. KINNEY and WALTER T. STOCKTON, Evanston, Ill. Filed Feb. 16, 1925. Serial No. 9,461. 5 Claims. (Cl. 200—38.)



1. A controller comprising a clock mechanism, an electric switch, means associated with said clock mechanism for actuating said electric switch, means for prohibiting the operation of said actuating means, and an indicator for designating the position of said prohibiting means, said indicator comprising a resilient member, an indicating tab associated with said resilient member and adapted to appear when said resilient member is compressed.

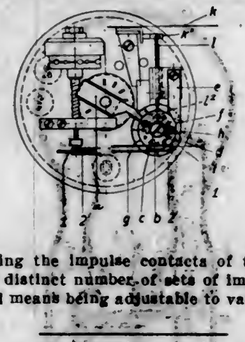
1,780,753. PRICE-MARKING TAG. FREDERICK KOHNLE, Dayton, Ohio, assignor to The Monarch Marking System Company, Dayton, Ohio, a Corporation of Ohio. Filed Jan. 6, 1928. Serial No. 245,012. 1 Claim. (Cl. 40—23.)



A tag, comprising, a body of plural ply, the material thereof folded upon itself providing a fold edge at one end and the plies adhesively united, and a hook clip extending from the body of the tag to engage about the material to be tagged and to be folded therewith for securing the clip to the material, said clip having a pair of parallel prongs engaged through the fold edge at spaced points, the ends thereof between the plies formed into scrolls for anchoring the clip to the tag.

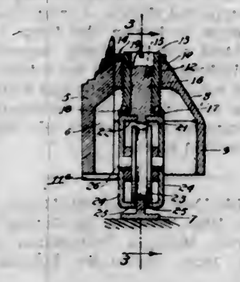
1,780,754. COIN-OPERATED TELEPHONE APPARATUS FOR AUTOMATIC TELEPHONE EXCHANGES. WILHELM KRUSE, Berlin, Germany. Filed Dec. 20, 1928, Serial No. 327,233, and in Germany Dec. 23, 1927. 5 Claims. (Cl. 179—6.3.)

1. An impulse dial apparatus for telephone systems of the character described comprising, in combination, a dial mechanism adapted to send out a consecutive number of sets of impulses according to special indications for calling a particular subscriber, a step-by-step mechanism associated with said dial mechanism and operated thereby, and means operated by said step-by-step mechanism for



short circuiting the impulse contacts of the dial mechanism after a distinct number of sets of impulses has been sent out, said means being adjustable to vary said number.

1,780,755. ROLLER OR CASTER. MORRIS KURTZON, Highland Park, Ill., assignor to Garden City Plating and Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 23, 1928. Serial No. 272,254. 1 Claim. (Cl. 16—100.)



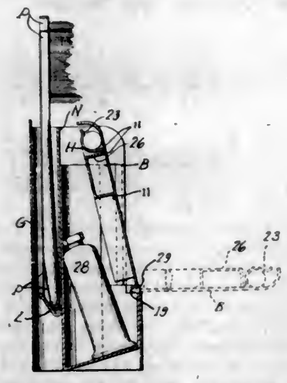
A device of the kind described comprising a housing attachable to the side of a sliding door and opening downwardly, said housing being substantially dome-shaped and having a threaded bore through the axis of the dome, a threaded sleeve extending through opposite ends of said bore, a rotatable spindle carried by said sleeve, a wheel below said spindle, a yoke secured to the lower end of said sleeve and in which said wheel is mounted, and means engaged with the upper end of the sleeve and abutting the housing to lock said sleeve against rotation, said means and said sleeve being exterior to the housing for ready access.

1,780,756. CIRCULAR-KNITTING MACHINE. NORMAN D. LANSDOWN, Wilmington, Del., assignor to Standard-Trump Bros. Machine Company, Wilmington, Del., a Corporation of Delaware. Filed Jan. 25, 1929. Serial No. 334,920. 9 Claims. (Cl. 66—123.)



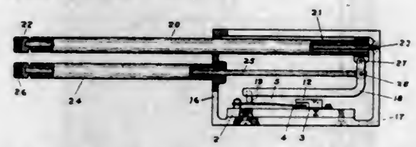
2. In a circular knitting machine equipped with a yarn guide movable into position to fed yarn to the needles and another yarn guide adapted also to feed yarn to the needles, the process of knitting only the second yarn into the fabric which comprises moving into and maintaining in yarn feeding position the second named yarn guide during the knitting of approximately half a course and then withdrawing it, and during the knitting of approximately the same half course deflecting the yarn carried by the first named yarn guide so that it will feed yarn only to the first one or more needles and the last one or more needles which knit the said half course.

1,780,757. DENTAL CABINET. CLARENCE A. LAWSON, Sr., and CLARENCE A. LAWSON, Jr., Los Angeles, Calif. Filed Oct. 31, 1929. Serial No. 403,829. 1 Claim. (Cl. 132—84.)



A device of the character disclosed, including a casing having a plurality of brush holders formed and arranged for maintaining the brushes in upright position with the bristle heads above said holders; said casing having a compartment for a dentifrice holder and the like; said casing having an inclined bottom portion normally disposing such dentifrice in inclined position in the casing, and a closure for said opening provided with means for mounting thereon other dental requisites.

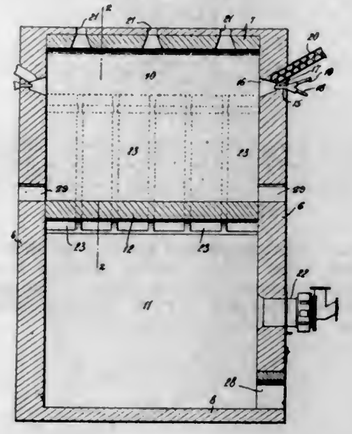
1,780,758. THERMOSTATIC APPARATUS. HENRY G. LEUPOLD, Cambridge, Mass., assignor to Electrical Laboratories, Inc., Boston, Mass., a Corporation of Massachusetts. Filed Mar. 3, 1927. Serial No. 172,225. 14 Claims. (Cl. 200—137.)



1. In an apparatus of the character described, the combination of a controlling element, an operating member for moving said element from one position to another comprising a leaf spring of substantially homogenous composition, and a support for a portion of said spring leaving another part thereof free to move from one position to another, said spring being split for a considerable portion of its length and the sections thereof sprung slightly toward each other whereby an area is produced adjacent to said support upon which a slight motion will produce an increased and abrupt movement of the free part of the spring.

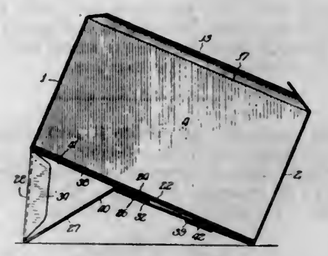
1,780,759. METHOD FOR PRODUCING WATER GAS. SYDNEY JOHN MCAULIFFE, Sydney, New South Wales, Australia, assignor, by mesne assignments, to Fuller Lehigh Company, a Corporation of Delaware. Filed Sept. 21, 1921. Serial No. 502,141. 7 Claims. (Cl. 48—202.)

1. The method of producing water gas, which comprises maintaining a quantity of pulverized coal and steam in intimate mixture in suspension in the form of a relatively thin, vertical sheet of great expanse by continuously supplying pulverized coal and steam to the sheet near the top thereof, and distilling the coal while in suspension



and substantially dissociating the steam into its component elements in the presence of incandescent particles of the coal by the application of heat to both faces and along the bottom edge of the sheet.

1,780,760. DISPLAY BOX. RALPH MCCLELLAND, HENRY K. POWELL, and SAMUEL N. LEOPOLD, Chicago, Ill., assignors to Morris Paper Mills Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 18, 1929. Serial No. 333,270. 18 Claims. (Cl. 206—44.)



1. In a folding display carton, a foldable extension of the rear side of the carton forming a rest, a tab at the free end of the rest, the bottom of the carton having an opening to receive the tab, an additional member for normally securing the rest in a position flat against the bottom of the carton with the tab extending past the receiving opening, whereby the securing means may be released and the tab inserted in the receiving opening thus bending the rest and forming a support to hold the carton in a forwardly inclined position.

1,780,761. THREAD-GUARD CASTER. HARRY C. NASCHKE, Jr., Philadelphia, Pa., assignor to Morris Truck and Wheel Co. Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 17, 1928. Serial No. 320,096. 4 Claims. (Cl. 16—46.)

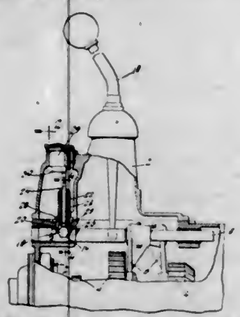
1. In a device of the character stated, a caster housing composed of a pair of symmetrical sections, each of said sections registering and aligning with the base of the other of said sections and having a base, pendant arms

and a body portion having inwardly converging, annular, peripheral outer walls, and a caster rotatably mounted within said housing sections and having a hub, a web,



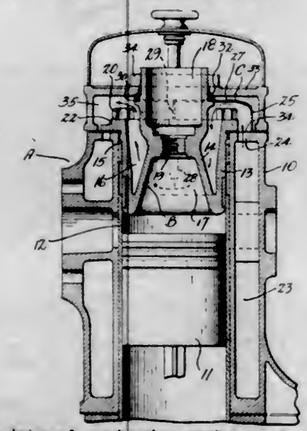
and having a tread whose edges overhang the juxtaposed peripheral edges of said housing sections, said base, arms and body portions of said housing sections being integral.

1,780,762. TRANSMISSION LOCK AND INTERLOCK. ROBERT NEEF, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed May 2, 1925. Serial No. 27,506. 16 Claims. (Cl. 70—126.)



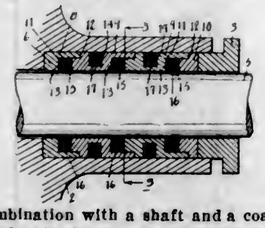
1. The combination of a plurality of sliding members having notches formed therein, said members being cut away between said notches, a stationary part, means cooperating with said stationary part, said notches and said cut away portions adapted to lock one of said members in position when the other is moved and to limit the extent of movement of said members.

1,780,763. SLEEVE-VALVE ENGINE-CYLINDER HEAD. ARCHIE MACPHAIL NIVEN, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a Corporation of Virginia. Filed July 25, 1927. Serial No. 208,189. 7 Claims. (Cl. 123—173.)



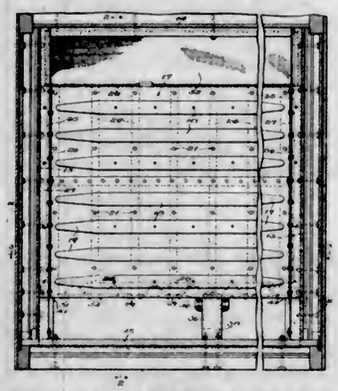
1. An internal combustion engine of the sleeve valve type comprising in combination, a water jacketed cylinder, a piston operable therein, a water jacketed cylinder head forming a sleeve pocket with the cylinder, a cylinder head water jacket cover cooperating with the cylinder head water jacket to provide a conduit for the cooling water, a cylinder head top cover forming a water header, and means engaging the cylinder head for clamping the top cover in position and for maintaining the jacket cover in proper position.

1,780,764. ROTARY-SHAFT PACKING. JOHN H. NOBLE, Kalamazoo, Mich. Filed Dec. 3, 1928. Serial No. 323,220. 2 Claims. (Cl. 286—33.)



1. The combination with a shaft and a coacting stuffing box shouldered at its inner end and provided with a gland, annular packing ring holder members closely fitting within said box arranged in end to end abutting relation and comprising inner and outer members, and a plurality of intermediate members, the inner and intermediate members being internally shouldered at one end and the outer and intermediate members having external rabbets receiving the shouldered ends of the adjacent members providing internal annular packing ring grooves, the intermediate members having external annular packing ring grooves, and packing rings of resilient material arranged in said internal and external grooves.

1,780,765. ICE BUNKER FOR REFRIGERATOR CARS. ARTHUR F. O'CONNOR, Chicago, Ill., assignor to Union Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 20, 1928. Serial No. 307,114. 16 Claims. (Cl. 62—19.)

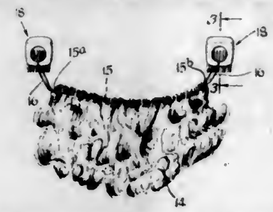


1. In a structure of the class described, a metallic bulkhead including a corrugated body portion and marginal plane surfaces, certain edge extremities of the latter being provided with flanges extending substantially at right angles to the main plane of the bulkhead in one direction and another edge extremity being provided with a flange extending in the opposite direction.

1,780,766. HAIRDRESSING ACCESSORY. JESSE OPPENHEIM, New York, N. Y. Filed Dec. 26, 1929. Serial No. 416,436. 4 Claims. (Cl. 132—53.)

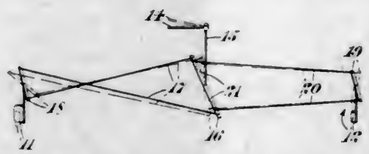
4. A hair dressing device comprising a tuft of hair and an anchoring member therefor comprising a comb

portion having teeth adapted to engage the natural hair and a portion interconnecting said teeth, a portion rigid with said interconnecting portion and extending in the



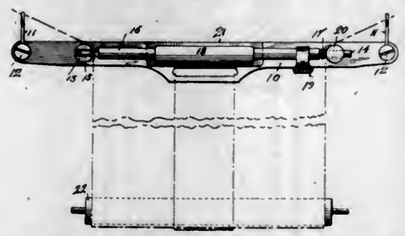
direction of said teeth, and means for attaching said tuft to said extending portion at a point thereon spaced from said interconnecting portion.

1,780,767. MEANS FOR STEERING WATER CRAFT. HUBERT SCOTT-PAINE, Hythe, Southampton, England. Filed Mar. 16, 1929, Serial No. 347,606, and in Great Britain Dec. 1, 1928. 1 Claim. (Cl. 114—163.)



A water-craft having a rudder situated forward of amidships, a rudder situated at or near the stern, a single controlling device for operating both rudders, and adjustable means interconnecting the rudders to permit the movement of one rudder as compared with that of the other to be varied at will.

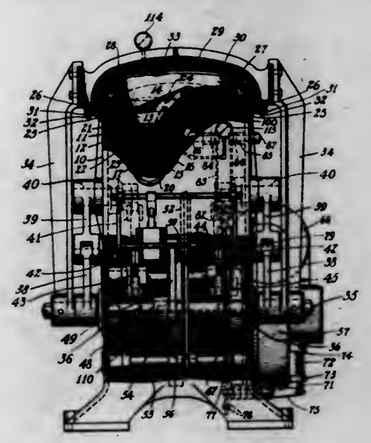
1,780,768. FABRIC-TENSIONING CLAMP. ALEXANDER C. PARLINI, Woodside, N. Y., assignor to Gotham Silk Hosiery Company, Inc., New York, N. Y., a Corporation of Delaware. Filed May 11, 1929. Serial No. 362,199. 3 Claims. (Cl. 66—149.)



1. In a fabric tensioning clamp for footer attachments, a base plate having studs mounted thereon in spaced relation, a bar swingably held on one of said studs and engaging the other of said studs at a definite distance from the base plate, an eccentric sleeve on said bar and means spaced apart from the sleeve to rotate said sleeve about said bar.

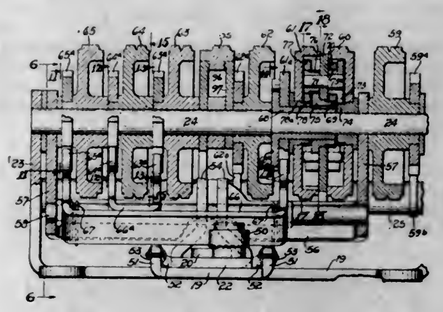
1,780,769. APPARATUS FOR SOLING AND PRESSING FOOTWEAR. CHARLES M. RICHARDSON and VIRGIL H. BODLE, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed July 7, 1927. Serial No. 204,016. 11 Claims. (Cl. 18—2.)

1. Apparatus for soling and pressing an article of footwear, the said apparatus comprising means for supporting a last with an upper and a sole thereon, a flexible diaphragm, means for applying a pressure fluid against said diaphragm on one side thereof to press it against the sole, fluid-confining means which with the other side of the diaphragm and with the upper defines a pressure



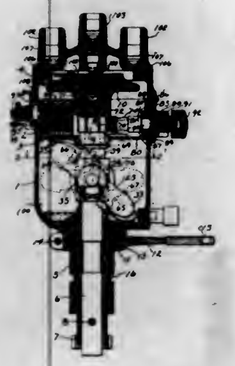
fluid chamber for applying pressure fluid locally to the upper in direct contact therewith, the said fluid-confining means comprising a lip-gasket member adapted to seal against the upper about the mouth thereof.

1,780,770. PORTABLE TIME-STAMPING MECHANISM. EMILIO SALUSTRI and GIACOMO SALUSTRI, Detroit, Mich. Filed May 31, 1927. Serial No. 195,286. 3 Claims. (Cl. 235—135.)



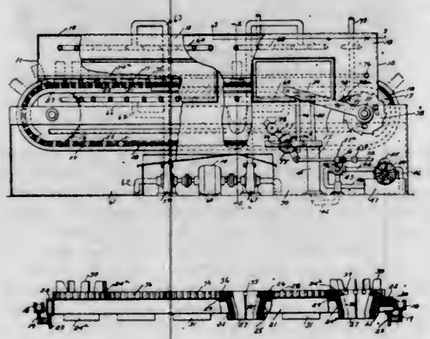
1. In a time stamp, the combination of a stationary guide plate, bearing brackets on said plate, a main shaft supported by said brackets, a plurality of type-rollers and ratchets loose on said main shaft, means for yieldingly connecting each ratchet with one of said rollers to permit limited circumferential movement, a holding dog and an actuating pawl for each ratchet, a common pivoted support for said pawls, said pawls being rigidly secured on said support in stepped relation whereby normally at least one pawl engages its associated ratchet, said ratchets having notches of variable depth to permit successive engagement of said pawls upon predetermined rotation of the adjacent ratchet, a clockwork controlled slide having upstanding slotted lugs on said guide plate adapted to operate said pawl carrying support, and a shaft oscillatable about said main shaft and carrying said support and extending through said slotted lugs, whereby said shaft is bodily moved to operate said support when the clockwork controlled slide is reciprocated.

1,780,771. GOVERNOR FOR BATTERY-IGNITION SYSTEMS. WOLFGANG E. SCHWARZMANN, Longmeadow, and CHARLES STRNISTE, Springfield, Mass., assignors, by mesne assignments, to The Electric Auto-Lite Company, a Corporation of Ohio. Filed June 4, 1921. Serial No. 475,065. 26 Claims. (Cl. 200—22.)



3. In an ignition system for internal combustion engines, the combination of a mechanical interrupter, a driving shaft, a governor mechanism rotatable with said shaft and connected to said interrupter for automatically adjusting the period of ignition upon change in engine speed, said governor mechanism having a tilting ring subjected to centrifugal force, a lever fast with said ring and having contact surfaces, a member fast with said shaft, and stop pins adjustably mounted in said member and cooperative with said surfaces for determining the initial and final limits of the tilting action of said ring.

1,780,772. BOTTLE-CLEANSING MACHINE. ARTHUR L. WASHBURNE, Los Angeles, Calif., assignor to Sparkletts Bottled Water Corporation, Los Angeles, Calif., a Corporation of Nevada. Filed Nov. 27, 1928. Serial No. 322,132. 9 Claims. (Cl. 141—7.)



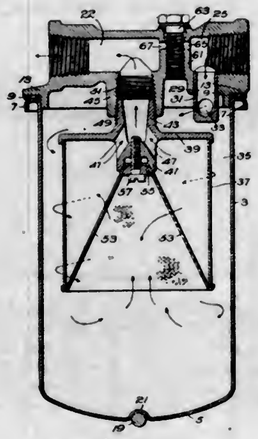
1. In a cleansing machine, a conveyor, transverse rows of turret collars for receiving bottle necks, the collars being rotatably mounted on said conveyor, one of said collars constituting a turbine rotor, and means to project fluid against said rotor to rotate the latter, the collars in a row being geared so as to be rotated together.

1,780,773. DISPLAY APPARATUS AND METHOD OF OPERATING THE SAME. GORDON AUGUSTUS WEARHAM, London, England. Filed May 21, 1929, Serial No. 364,855, and in Great Britain May 23, 1928. 15 Claims. (Cl. 40—28.)



4. Display apparatus comprising a container having one wall constituting a window, and liquid constituting a screen situated in the container so as to be visible through the window, in combination with a movable mass that is associated with the container and is arranged to move bodily under the influence of inertia in relation to a part of the container and thereby vary the thickness of the liquid screen.

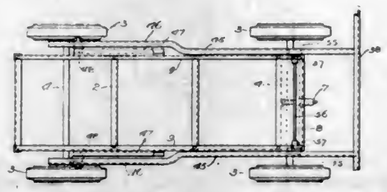
1,780,774. SEPARATOR. EZEKIEL F. WHITE, Hartford, Conn., assignor to Grover V. Lassen, West Hartford, Conn. Filed Nov. 9, 1928. Serial No. 318,257. 6 Claims. (Cl. 210—165.)



1. A separator comprising an outer cylindrical casing having a closed bottom, a cap closing the top thereof, a cylindrical cuplike shield having an upper closed end secured to the cap, extending with its open end down into the casing providing an annular circulating space between the shield and the casing, a generally conical screen having its edges secured to the cup, a wedge block for securing the apex of the screen to the closed end of the cap in

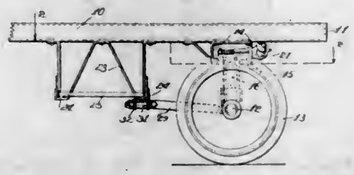
fixed tensioned relation, inlet passages for imparting a swirling motion to the entering fluid in the circulating space, and outlet passages communicating with the screen space of the shield.

1,780,775. DUMP-BODY VEHICLE. LEROY E. WILLIAMS, Edgerton, Wis., assignor to Highway Trailer Company, Edgerton, Wis., a Corporation of Wisconsin. Filed Apr. 27, 1927. Serial No. 186,837. 2 Claims. (Cl. 298—12.)



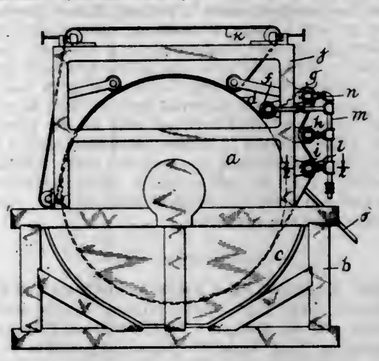
1. In a dumping vehicle, the combination of a vehicle frame or chassis having straight parallel side members with rollers journalled at the rear ends of said members and projecting from their outer faces, and with outwardly open guide channels secured to their forward portions; a body with longitudinal frame members comprising forward portions spaced laterally from the chassis side members to accommodate said guide channels and rearward portions offset inwardly from the forward portions to extend closely adjacent said chassis members, said rearward portions being inwardly facing channels engaged with the said rollers in the chassis and the forward portions carrying inwardly extending rollers engaged in the outwardly facing guide channels, said channels terminating rearwardly at a point to release said rollers when the body has rolled back to a position for tilting about the rollers at the rear of the vehicle frame.

1,780,776. TRAILER-FRAME STRUCTURE. LEROY E. WILLIAMS, Edgerton, Wis., assignor to Highway Trailer Company, Edgerton, Wis., a Corporation of Wisconsin. Continuation of application Serial No. 186,837, filed Apr. 27, 1927. This application filed Jan. 11, 1928. Serial No. 245,843. 1 Claim. (Cl. 280—106.)



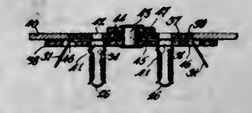
In a vehicle having a main frame and supporting wheels and axles therefor, a pair of brackets depending from said frame on opposite sides thereof adjacent to and forwardly of the rear wheels, a pair of spaced transversely extending cross bars connecting said brackets together, a step pivotally connected to said cross-bars at one side of the vehicle, normally extending in horizontal position and adapted to be swung upwardly when out of use, an eye bolt swivelly mounted on the cross bar which is adjacent the rear wheels, and a pair of short radius rods each having one end connected to the rear axle, their other ends converging toward each other and pivotally connected to said eye bolt.

1,780,777. FILTERING DEVICE. FRANK W. YOUNG, Verona, N. J. Filed July 27, 1926. Serial No. 125,260. 8 Claims. (Cl. 210—198.)



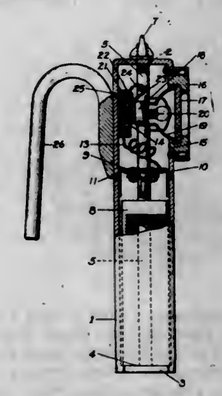
1. In combination, a cake forming instrumentality, a plurality of heated rolls, and a filter cake re-enforcement comprising a plurality of substantially separate, endless strands encircling the instrumentality and the rolls.

1,780,778. SOCKET FOR TUBES. WILFORD C. MACFADDEN, Fox Chase, Pa., assignor to Hugh H. Eby, Philadelphia, Pa. Filed Feb. 21, 1929. Serial No. 341,695. 3 Claims. (Cl. 173—328.)



1. In a punched metal spring connector for a pin terminal, a spring metal U strip having support at the ends of the strip, a contact element for engagement along one side of the terminal punched from an interior of each U arm portion of the strip, having free ends and intermediate side extensions integrally joining the contact element to the body of the strip, with the contact element offset from the plane of the strip toward the U exterior.

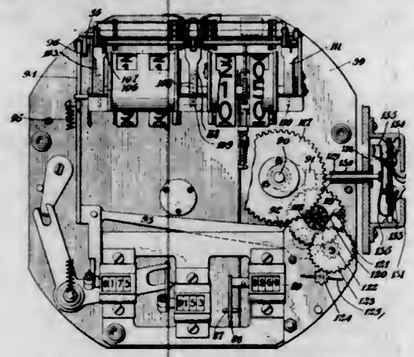
1,780,779. PORTABLE ELECTRIC LAMP. WILLIAM BUANETT, Jr., Marion, Ill., assignor to Modern Coal Burner Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 14, 1928. Serial No. 246,701. 3 Claims. (Cl. 240—10.5.)



1. A portable safety electric lamp, comprising a case, a cover plate for closing the bottom thereof, threaded rods

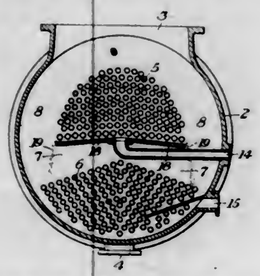
extending from said cover plate through the top of said case, nuts on the ends of said rods, an electric battery within said case, a shelf above said battery dividing said case into two compartments, a contact plate adjacent one terminal of said battery, a yieldable connection between said terminal and said contact plate, a yieldable connection between said case and the other terminal of said battery, a socket contact plate connected with said first contact plate, insulation material between said first plate and the case, insulation between said second plate and the case, a lamp socket in contact with said second plate, a connection between said case and the other terminal of said socket, a lamp in said socket, a reflector attached to said socket, and a lens in front of said reflector, substantially as shown and described.

1,780,780. TAXIMETER. JACOB A. COSTUMA and HARRY E. BAUER, New York, and CHARLES L. LOVERCHECK, Brooklyn, N. Y., assignors to International Taxameter Corporation, New York, N. Y., a Corporation of New York. Filed May 29, 1926. Serial No. 112,442. 19 Claims. (Cl. 235—30.)



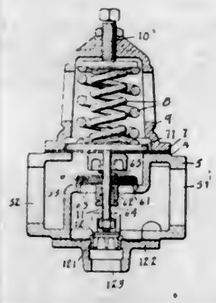
1. In a fare indicator a plunger, a switch controlled thereby, a circuit controlled by the switch, an electrical illuminating device in the circuit, a shaft extending thru the fare indicator, said shaft being adapted to control the fare registering parts of the indicator, and a cam carried by the shaft and adapted to actuate the plunger.

1,780,781. CONDENSER. RAYMOND N. EHRHART, Edgewood, Pa., assignor to Elliott Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 28, 1926. Serial No. 105,169. 9 Claims. (Cl. 257—43.)



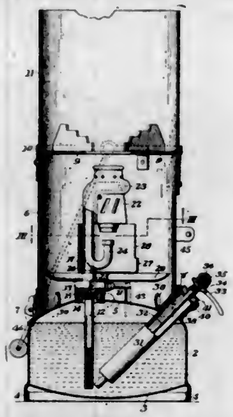
1. In a surface condenser, a shell having a steam inlet, a wall in said shell providing free steam flow spaces between at least two of its edges and the shell and providing a free steam space therebelow, a tube nest on each side of said wall, means for passing cooling water through said tube nests in series, and means for subjecting the respective tube nests at substantially their steam flow termini to different pressure conditions.

1,780,782. RELIEF VALVE. HERBERT G. HOLMES, Lansing, Mich., assignor to Novo Engine Company, Lansing, Mich. Filed June 4, 1928. Serial No. 282,714. 4 Claims. (Cl. 277—21.)



3. A relief valve structure comprising a main check valve casing with a central opening, a valve seat with a spider supporting a central hub and a valve disk adapted to said seat with a spring for holding the same in position, a relief valve axially in line with the main check valve, the valve stem extending through the said main check valve, a diaphragm connection to the relief valve stem, and means to hold the same yieldingly to its seat whereby the reaction of back pressure will open the relief valve and permit the main check valve to seat.

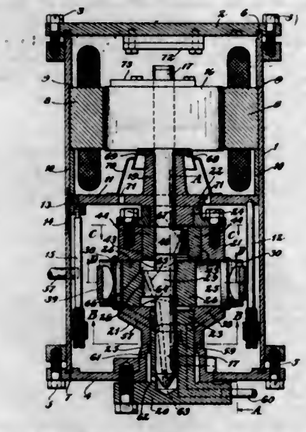
1,780,783. FURNACE. HARRY E. LEETY and JOHN A. ECKERT, Pittsburgh, and AUSTIN W. PAGE, Penn Township, Allegheny County, Pa., assignors to P. Wall Manufacturing Supply Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 8, 1925. Serial No. 48,978. 8 Claims. (Cl. 158—32.)



1. In a furnace, a fuel reservoir, a burner supplied thereby, a guard having a connection with said reservoir permitting movement of the guard to operative and inoperative position relative to said burner, a drip cup for said burner, and a shield cooperating with said burner and drip cup and positioned within the guard when the same is in operative position to protect said reservoir, substantially as described.

1,780,784. FLUID-DISPLACEMENT APPARATUS. THOMAS M. GUNN, Brooklyn, N. Y., assignor of one-sixth to Gorham Crosby, Glen Ridge, N. J. Filed Mar. 15, 1927. Serial No. 175,509. 6 Claims. (Cl. 230—177.)

1. In a motor-driven fluid compressor, the combination of a motor enclosed within space occupied by the fluid being compressed; a compressor having a driving member directly connected to the rotor of said motor and having also a piston and a cylinder operating in conjunction with one another to accomplish compression of the fluid, said compressor being of such construction that the piston com-



pletes its cycle of motion once in two revolutions of the driving member; and a casing enclosing all of said parts, said casing being provided with electrical connections for said motor and with suitable connections for introducing to the compressor and withdrawing therefrom fluid to be compressed.

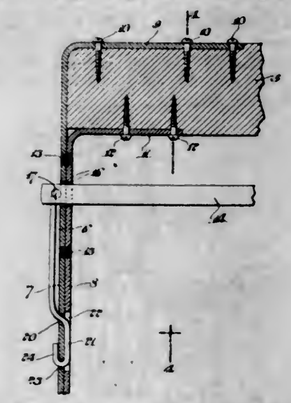
1,780,785. SCREW DRIVER. BENNETT G. JANSSON, Kittery, Me., and CHARLES J. EMERSON, Winchester, Mass. Filed Sept. 9, 1929. Serial No. 391,306. 3 Claims. (Cl. 145—50.)



1. A screw driver tip comprising a body and two blades integral therewith and extending in different planes from opposite ends of said body, one of said blades being offset sufficiently from the axis of said body to expose a substantial end surface of the body, said body having a socket in said exposed end surface thereof beside one of said blades and another socket in the side of said body, each of said sockets being adapted to receive the end of a screw driver shaft.

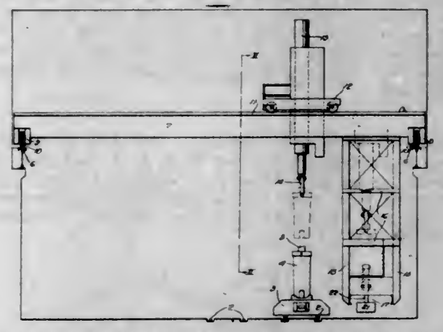
1,780,786. HEDDLE FRAME. JOHN JACOB KAUFMANN, Elkins Park, Pa., assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 16, 1928. Serial No. 319,778. 1 Claim. (Cl. 139—92.)

A heddle frame comprising top and bottom rails, end members each comprising two separate flat metallic strips permanently united to each other at a plurality of points, one of said strips having its end portions extending across the ends of the top and bottom rails and bent over and secured on the outer sides thereof, the other of said strips having its end portions bent over and secured to the top and bottom rails along the inner sides thereof, heddle supporting bars extending through regis-



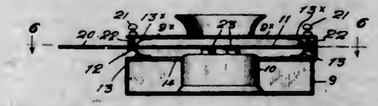
tered slots in the end members, and retaining devices comprising spring wire hook members each having its free end engaging one end of a heddle supporting bar and having its other end extending through apertures in the outer strip of each end member, the portion thereof which is located on the inner side of said outer strip being positioned entirely within a slot in the inner strip of the end member.

1,780,787. INGOT-STRIPPING MECHANISM. WALTER D. KELLER and WILLIAM L. POTO, Alliance, Ohio, assignors to The Alliance Machine Company, Alliance, Ohio, a Corporation of Ohio. Filed Sept. 4, 1928. Serial No. 303,770. 8 Claims. (Cl. 22—95.)



1. An overhead travelling crane and a stripper for inverted-type ingots carried thereby, the stripper having a portion which engages the bottom of the ingot for stripping it, the crane being adapted to transfer an ingot and its mold onto the stripper.

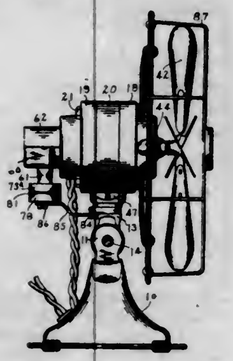
1,780,788. SOUND-REPRODUCING MECHANISM FOR RADIOS. AUBREY M. KENNEDY, Los Angeles, Calif. Filed Aug. 3, 1929. Serial No. 383,270. 2 Claims. (Cl. 179—100.)



1. In radio reproducing mechanism, in combination with a magnetic assembly of a support, diaphragm holding

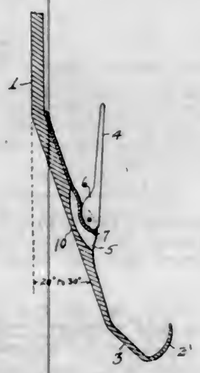
means in said support and a diaphragm provided with a carrier, the diaphragm being so related to the holding means that it may be moved into the support and gripped by the holding means for coaction with the magnetic assembly, and removed therefrom by withdrawal in the plane of its face.

1,780,789. ELECTRIC FAN. JOHN LANZ, New Haven, Conn., assignor, by mesne assignments, to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Maryland. Filed July 29, 1926. Serial No. 125,702. 5 Claims. (Cl. 230—256.)



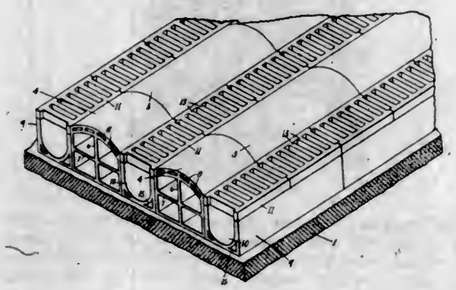
1. In an electric fan, an electric motor, a base upon which said motor is mounted to oscillate, and means to oscillate the motor comprising a shaft rotated from the motor shaft, a disk mounted on said shaft, a screw having an enlarged head secured to the under side of said disk, a second disk provided with a counter-bored recess to receive said screw, a spring within said counter-bore and acting between the lower shoulder thereof and the head of the screw to urge the second disk toward the first, a friction washer between said disks, and a link having one end pivotally connected to a stationary part of the fan, and the other end having a pivotal connection with the second-named disk, the last-named connection being eccentric with respect to the axis of rotation of the second-named disk.

1,780,790. KNITTING NEEDLE. WILLIAM H. LEAVIN and SAMUEL B. LEAVIN, New York, N. Y., assignors, by mesne assignments, to Gotham Knitbac Machine Corporation, New York, N. Y., a Corporation of Delaware. Filed July 17, 1928. Serial No. 293,430. 3 Claims. (Cl. 66—117.)



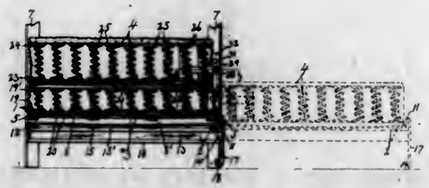
1. A needle for repairing runs in knitted fabrics comprising a shank having a straight portion and a slotted inclined portion and a hooked portion joined to said slotted inclined portion by a second inclined portion, a latch member pivotally connected at one end in the slotted inclined portion and co-operating at its free end with the tip of the hooked portion, said second inclined portion being disposed at such an angle with respect to the slotted inclined portion and the hooked end portion that the width of the hook will permit the latch member to lie at a predetermined angle with respect to the tip of the hook and the inclined slotted portion of the shank when it is closed upon said tip.

1,780,791. FILTER BED. ANDREW LENDERINK, Kalamazoo, Mich. Filed Mar. 8, 1929. Serial No. 345,291. 9 Claims. (Cl. 210—148.)



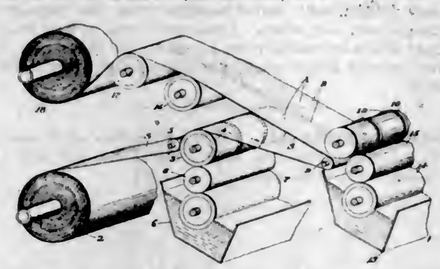
4. In a filter, the combination with a foundation provided with a side wall at one end thereof, a plurality of bed members disposed in alined rows on said foundation, a plurality of channel members open at the top arranged in alined rows between said bed members and supported laterally thereby, and grid members comprising longitudinal side bars and cross bars disposed in spaced parallel relation arranged on said channel bars between said bed members and supported laterally thereby, the end channel members and their superimposed grid members being arranged through openings provided therefor in said side wall.

1,780,792. CONVERTIBLE SINGLE OR DOUBLE BED. WILLIAM LEWIS, Utica, N. Y. Filed Sept. 2, 1927. Serial No. 217,115. 1 Claim. (Cl. 5—185.)



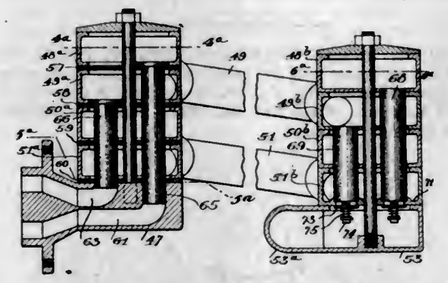
In a convertible single or double bed, the combination of a main frame having relatively fixed corner posts, a mattress mounted on the main frame, and a supplemental frame slidable on the main frame from a position beneath the mattress to a position mainly at one side thereof and vice versa, the corner posts adjacent said side of the main frame being provided with vertical slots wholly above the supplemental frame, and an additional mattress provided with pivotal pins slidable vertically in said slots and having pivotal connection therewith to permit the additional mattress to be moved vertically relatively to and independently of the first named mattress to a position at one side thereof directly over the supplemental frame when the latter is extended for use.

1,780,793. COATED PAPER AND PROCESS OF MANUFACTURING SAME. WILLIAM WALLACE MCLAURIN, Brookfield, Mass. Filed Nov. 6, 1926. Serial No. 146,630. 6 Claims. (Cl. 91—68.)



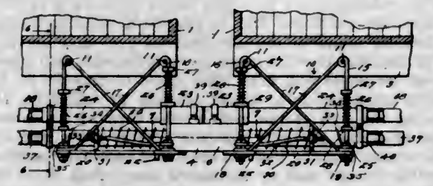
5. An article of the character described comprising paper, the greater part of the surface on one side thereof being coated with a relatively hard non-adhesive material adapted to facilitate printing, an adjacent portion of said surface being coated with a softer non-adhesive material adapted to facilitate folding.

1,780,794. LIQUID-PROCESSING APPARATUS. EDGAR B. NICHOLS, Camden, N. J., assignor to The Pfaudler Co., Rochester, N. Y., a Corporation of New York. Original application filed Jan. 27, 1928, Serial No. 250,048. Divided and this application filed Dec. 22, 1928. Serial No. 328,032. 24 Claims. (Cl. 257—205.)



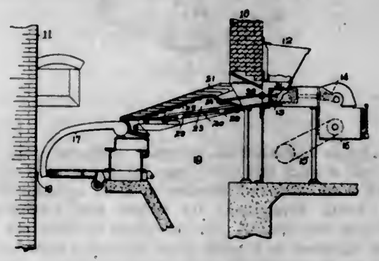
3. In a fluid pressure circulating system, a plurality of superimposed pipe sections having outlet portions resting one upon another, separate supply pipes for said sections, a receiving head for the fluid circulated through said sections, tubes leading from the outlet portions of a plurality of the sections through the outlet portions of the remaining sections therebeneath to said head, and automatic valves for said tubes responsive to the difference in pressure within the tubes and the head.

1,780,795. AUTOMATIC TRAIN-PIPE COUPLING. CHARLES E. PHARO, Cortez, Colo. Filed June 22, 1926. Seria. No. 117,783. 5 Claims. (Cl. 285—58.)



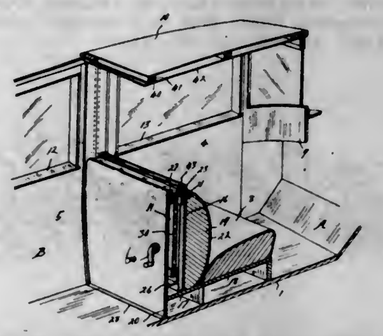
2. An automatic train pipe coupling comprising heads, each head having one of its sides forwardly and inwardly inclined and provided adjacent its other lateral side with a longitudinally extending opening, an extension projecting forwardly from the last mentioned side of the head and having its inner side forwardly and outwardly inclined, the projection of one head contacting with the inclined side of the other head and provided in its inner side with a recess communicating with the opening in the head, a forwardly tapering rib on the inclined lateral side of each head, the rib of one head fitting snugly in the recess of the extension of the other head, and a pin extending forwardly from the forward end of each rib, the pin of the rib of one head fitting in the opening of the other head.

1,780,796. UNDERFEED STOKER. ROBERT SANFORD RILEY and JAMES H. MCELROY, Worcester, Mass., assignors to Riley Stoker Corporation, Worcester, Mass., a Corporation of Massachusetts. Filed Sept. 18, 1920. Serial No. 411,051. 12 Claims. (Cl. 110—44.)



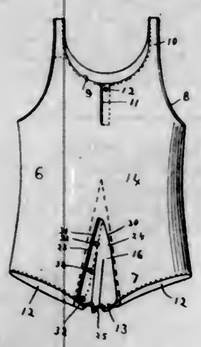
6. In an underfeed stoker, in combination, an underfeed retort, a movable grate member effective to supply air for combustion of fuel in said retort throughout a major portion of the length of said retort, means to slidably support said grate member in said retort, a fuel feeding ram for said retort, driving mechanism therefor, and a lost motion connection between said ram and said grate member.

1,780,797. CONVERTIBLE VEHICLE BODY CONSTRUCTION. RALPH S. ROBERTS and JOHN VOTYPKA, Detroit, Mich., assignors to Lebaron Detroit Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 6, 1929. Serial No. 337,958. 5 Claims. (Cl. 296—48.)



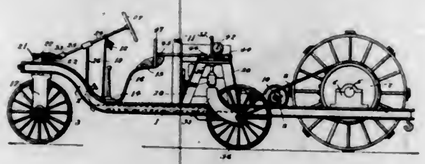
1. In a vehicle body, the combination with a cross bow, a lining concealing the cross bow, and a partition below the cross bow and including a sliding window and a pocket for receiving said window, of window guides extending between the pocket and cross bow, a header of yieldable material for the window located between the cross bow and lining at the upper ends of the window guides and concealed by said lining, and means for concealing the window guides and the window when the latter is in the pocket, including strips of flexible material carried respectively by said guides and a wall of said pocket.

1,780,798. STEP-IN COMBINATION GARMENT. MICHAEL F. ROBISCHON, Utica, N. Y., assignor of one-half to Herbert Robischon, Utica, N. Y. Filed Oct. 30, 1926. Serial No. 145,315. 1 Claim. (Cl. 2—78.)



A step-in combination garment comprising in a one-piece suit a shirt and short-legged drawers, said suit being formed from material tubular in form substantially the same width throughout its length and provided with front and rear central slits extending up from the bottom of the garment to a point near the waist-line, with gore pieces of wedge-shaped form with rounded bases united at their rounded bottoms at the crotch for the greater part of the width of the gore pieces and forming a closed-bottomed fulness at the crotch, said gore pieces being secured at their other opposite sides to the edges of said slits and reaching from the top of said slits to the bottom of the garment, one of the upright sides of the front gore being detachably secured, said garment having a closed seat and a closed crotch, and being wider across the seat than the width of the said tubular formed material, the leg portions of said drawers having a circumference adapted to substantially fit the legs of the wearer and extending down only a short part of the distance from the crotch to the knees of the wearer.

1,780,799. HILLSIDE TRACTOR. WALTER G. ROGERS, Leavenworth, Kans. Filed Sept. 23, 1929. Serial No. 394,563. 1 Claim. (Cl. 180—21.)



A hillside tractor comprising a relatively narrow elongated chassis, a single steering wheel at the front end of the chassis, means for setting said wheel from a seat on the chassis, a single driving wheel at the rear end of the chassis, a motor on the chassis between the ends thereof operatively connected with the driving wheel, a cross frame rigidly secured to and extending from the sides of the chassis in advance of the driving wheel, vertically movable rack bars mounted in the outer ends of the cross frame, caster wheels swiveled in the lower ends of the rack bars, transverse shafts mounted on the cross frame, pinions at the outer ends of said shafts meshing with the respectively adjacent rack bars, worm pinions at the inner ends of said shafts, longitudinal shafts journaled upon the cross frame and extending forwardly beyond the front of the same adjacent the opposite sides of the chassis, worms on the rear ends of said longitudinal shafts meshing with the respective worm pinions, and means at the front ends of said longitudinal shafts accessible from a seat on the chassis for rotating the said shafts whereby to maintain the level of the tractor.

1,780,800. ENEMA PAD. ADELA F. SHEKTER, Jamaica, N. Y. Filed Nov. 15, 1929. Serial No. 407,424. 5 Claims. (Cl. 129—227.)



1. An enema pad having a flat bottom body portion and an opening in the top, the said body having a passage extending in a curving direction from the said opening, the mouth of the said passage being arranged adjacent to one edge of the pad, and the said passage being adapted to guide the movement of a catheter and to cause the same to project vertically from the said opening.

1,780,801. INSECT-GUARD ATTACHMENT FOR HATS. LEON M. SHLENKER, St. Louis, Mo., assignor to International Harvest Hat Co., St. Louis, Mo., a Corporation of Missouri. Filed Mar. 24, 1930. Serial No. 438,583. 3 Claims. (Cl. 2—4.)



1. In combination a hat brim folded upon itself to form an inwardly extending fold to provide a reinforced edge, an annular guard of net-like material gradually decreasing in diameter from its upper to its lower end, said guard having its upper end bent upon itself to provide an inwardly extending fold, means common to said folds for securing the fold of the brim to the body of the latter, the fold of the guard to the body of the latter, and the body of the brim and body of the guard together, the bend provided by the fold of the guard being flush with the bend provided by the fold of the brim, said guard having its lower portion bent upon itself and secured together to provide a hem, and a whirring string positioned within and extending from said hem.

1,780,802. GOLF BAG. STANLEY HARRY SUTCLIFFE, Radlett, England. Filed Oct. 18, 1929, Serial No. 400,632, and in Great Britain Sept. 27, 1929. 6 Claims. (Cl. 150—1.5.)



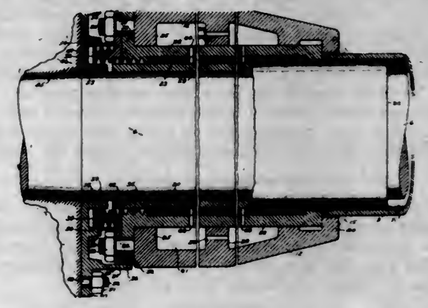
1. The combination with a golf bag, of at least one spindle dividing said bag into a plurality of compartments, means for mounting said spindle across the mouth of the bag, and at least one anti-friction roller mounted on said spindle.

1,780,803. COKING RETORT OVEN. JOSEPH VAN ACKEREN, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 31, 1923, Serial No. 654,875. Renewed Mar. 27, 1930. 11 Claims. (Cl. 202—143.)

10. A coke oven battery having side by side coking chambers with intermediate heating walls, characterized by heating walls individually having at least two groups of inflow flues and at least two groups of outflow flues, with a bus flue connecting an inflow group with an outflow group, combined with pairs of inflow and outflow regenerators, each such pair of regenerators being connected with a similarly operating group of flues of each of the two heating walls on the opposite sides of an intervening coking chamber; substantially as specified.

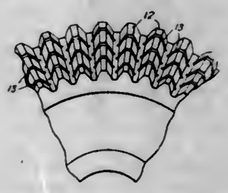
1,780,804. SEAL FOR STERN BEARINGS FOR PROPELLER SHAFTS. CHARLES E. WARD, Charleston, W. Va. Filed Sept. 14, 1927. Serial No. 219,516. 6 Claims. (Cl. 308—134.)

1. In a stern support for a propeller shaft in combination with said shaft a sleeve therefor; a packing plate provided with a circular boss in prolongation of said sleeve; a strut casting encasing said sleeve and to which said plate and sleeve are secured; a hub for said shaft



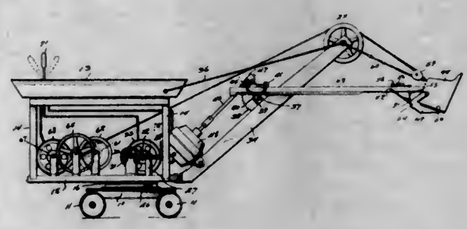
provided with a packing plate having on one face thereof a channel telescoping said boss; and lubricant filled corrugations on said boss as well as on said sleeve.

1,780,805. METHOD OF MAKING HELICAL CUTTERS. WALTER HARRY WHEATLEY, London, England, assignor to Wheatley Patents Ltd., London, England, a Corporation of England. Filed Mar. 30, 1927, Serial No. 179,651, and in Great Britain July 21, 1926. 5 Claims. (Cl. 76—101.)



1. That method of making a rotary helical cutter by use of a toothed master bevel wheel with teeth in staggered formation to provide cutting edges, the master wheel being hardened and finished to correct shape, comprising roughing out a helical cutter blank having a single thread helix corresponding in pitch to the minor pitch of the master wheel, placing the master wheel and the helical cutter blank in the gear cutting machine, feeding the helical cutter blank over the master wheel and rotating the blank and the master wheel at relative speeds to cause the helical cutter blank to make one complete revolution during the turning of the master wheel through a distance equal to the pitch of one tooth, to generate on the helical cutter blank a helix of correct shape, and cross-cutting the helix formed on the helical cutter blank to the desired number of cutting teeth.

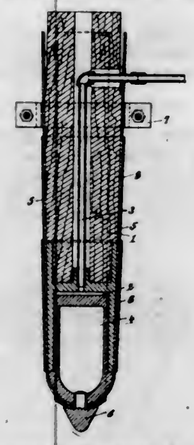
1,780,806. TOY ELECTRICALLY-OPERATED SHOVEL. ALFRED PETTON WILLIAMS, Madisonville, Ky. Filed Jan. 24, 1929. Serial No. 334,754. 1 Claim. (Cl. 214—146.)



In a toy power shovel the combination of a boom, a scoop, a pair of arms mounted upon the scoop and extending

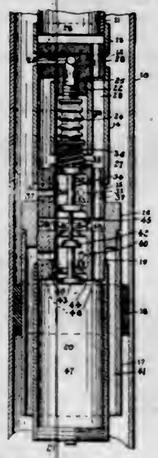
transversely of the boom, means on the boom for shifting the arms outward or inward, means on the boom for raising or lowering the scoop, angular arms pivoted upon the scoop and carrying a scoop bottom, the angular arms having notches, a latch pivoted upon the first named arms and adapted to engage with the notches in the bottom supporting arms, a spring mounted on the arm and engaging said latch for urging the latch into latching position, a shaft upon which the latch is mounted and having a radial arm, and a lever having a slot in which said radial arm is disposed, the lever being shiftable to release the latch.

1,780,807. **PILE.** IGNAZ ZEISSL, Vienna, Austria, assignor to Stern-Gesellschaft fur Moderne Grundbautechnik m. b. H., Vienna, Austria, a Company of Austria. Filed June 22, 1928, Serial No. 287,595, and in Austria Nov. 21, 1927. 7 Claims. (Cl. 61—78.)



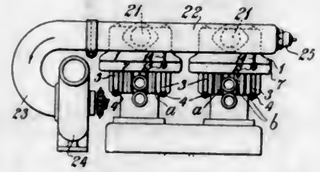
1. A device for forming pit holes for piles comprising in combination a pile core, a pile shoe, and an hydraulic press located between the pile core and pile shoe and parts forming a removable unit.

1,780,808. **INTERMITTENT GAS-LIFT PUMP.** MERTON T. ARCHER, Pittsburgh, Pa., assignor to The National Supply Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 25, 1928. Serial No. 272,781. 5 Claims. (Cl. 103—232.)



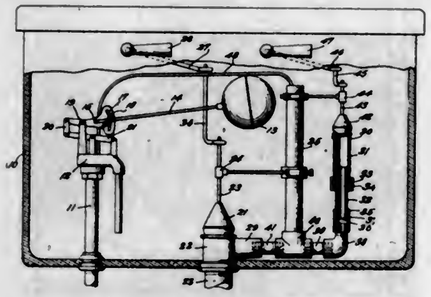
1. In a gas-lift pump for wells, a vertical conduit in which liquid in the well rises, a valve dividing the liquid into upper and lower columns, a conduit to supply compressed gas for aerating the upper column, a bellows having one surface in communication with the upper column and the other surface in communication with the gas-supply conduit, a valve between the upper column and the gas supply conduit, and means connecting together the belows and the valves, one valve being open when the other is closed.

1,780,809. **MEANS FOR AIR COOLING THE CYLINDERS OF INTERNAL-COMBUSTION ENGINES.** JAMES BOWEN, Swansea, Wales. Filed Aug. 8, 1928, Serial No. 298,324, and in Great Britain Aug. 23, 1927. 2 Claims. (Cl. 123—171.)



1. An internal combustion engine having its cylinder provided with heat dissipating fins, a cooling device for the cylinder comprising a jacket having heat dissipating fins therein for engagement between the fins of the cylinder when the jacket is engaged thereon, means engageable with the fins of the cylinder for retaining the jacket thereon, and means for creating suction in the jacket.

1,780,810. **CLOSET-FLUSHING DEVICE.** CHARLES WATKINS BROWN, San Diego, Calif. Filed Jan. 21, 1930. Serial No. 422,403. 5 Claims. (Cl. 4—37.)

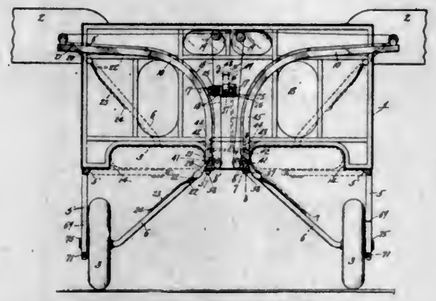


1. A closet bowl flushing device for use in a flushing tank, comprising a connection between the tank chamber and the closet bowl, a means for selectively releasing different amounts of water through the connection to the bowl and adjustable means for predeterminedly and differentially controlling the amounts of water released by the selective releasing means.

1,780,811. **RETRACTABLE LANDING GEAR.** VINCENT J. BURNELLI, New York, N. Y., assignor, by direct and mesne assignments, to The Uppercu-Burnelli Corporation, a Corporation of Delaware. Filed Dec. 31, 1928. Serial No. 329,441. 5 Claims. (Cl. 244—2.)

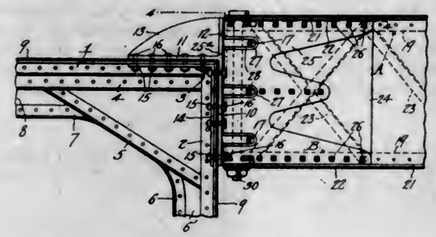
1. The combination with an air plane having a fuselage of unusual width of retractable landing gear comprising pendent brackets hinged to the fuselage, axles mounted in said brackets, wheels journalled on said axles, said axles being angled upwardly toward the fuselage bottom in converging relation with the wheels extended, said fuselage bottom provided with recesses adapted to receive said wheels, laterally extending, slotted arcuate channels

secured within said fuselage, goose-neck axle extensions respectively engaging said channels through their slots, and means connected with said axles respectively to si-



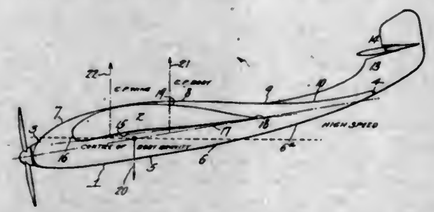
multaneously move said extensions along said channels, thereby causing said axles and wheels to travel between their extended and retracted positions.

1,780,812. **MEANS OF AIRFOIL AND FUSELAGE CONNECTION.** VINCENT J. BURNELLI, New York, N. Y., assignor, by direct and mesne assignments, to The Uppercu-Burnelli Corporation, a Corporation of Delaware. Filed Jan. 4, 1929. Serial No. 330,366. 1 Claim. (Cl. 244—31.)



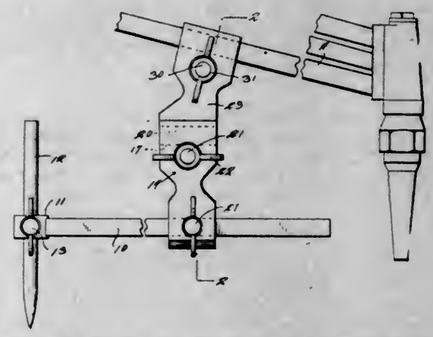
Means for releasably attaching an airfoil spar to a fuselage bulkhead comprising a bracket secured to said bulkhead and provided with a number of superposed projecting tongues, said tongues having aligned holes therethrough, reinforcement for said spar comprising a sheath having side plates connected with an end plate, said end plate having superposed slots, a U-plate of hardened steel fitted in each slot to receive said tongues, said U-plates provided with holes to align with the holes in the tongues and a bolt to engage said holes for connecting said tongues and reinforcement.

1,780,813. **AIRPLANE.** VINCENT J. BURNELLI, New York, N. Y., assignor to The Uppercu-Burnelli Corporation, a Corporation of Delaware. Filed Mar. 1, 1929. Serial No. 343,796. 3 Claims. (Cl. 244—12.)



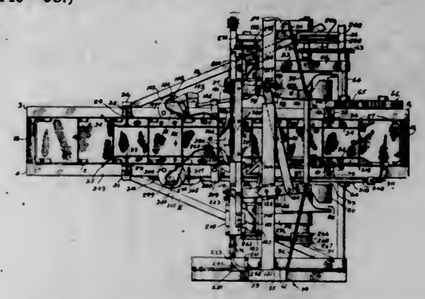
1. The combination in an airplane of a central airfoil of relatively short span and considerable extent of chord, and a main supporting airfoil, of moderate chord, extended from opposite sides of said central airfoil, said airfoils being contoured and arranged to have their respective centers of pressure coincide in the center of gravity of the airplane when in the attitude of cruising speed, and said contours and arrangement causing the respective centers of pressure to shift in opposite directions, at varying speeds, in changes of longitudinal attitude.

1,780,814. **BLOWTORCH SUPPORT AND SCRIBER.** ROE B. CREGGER, Richmond, Va. Filed Sept. 19, 1929. Serial No. 393,769. 3 Claims. (Cl. 266—23.)



3. A blow torch support of the character described, comprising a radius rod having a pivot pin in one end, a lower clamping member slidingly mounted upon the radius rod and having means whereby it may be held in adjusted position thereon and formed to engage and clamp on a blow torch, a second clamping member formed for detachable engagement upon the first named clamping member and when so engaged, being angularly disposed relative thereto, and the second named clamping member being formed to clamp upon a blow torch.

1,780,815. **BAG-TYING MACHINE.** GEORGE K. CRUTCHFIELD, Jr., WATERS C. NORTHAM, and JOHN C. KINKER, Jr., Richmond, Va., assignors to said Crutchfield. Filed June 1, 1929. Serial No. 367,787. 19 Claims. (Cl. 140—93.)

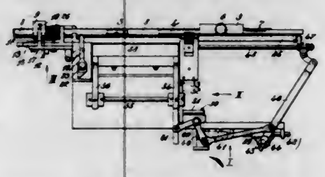


1. A machine for closing filled sacks, comprising an intermittently moving conveyor, and means controlled by contact with filled sacks in predetermined positions on said conveyor for closing and tying the mouths of said sacks.

1,780,816. **MATRIX-SETTING AND TYPE-LINE-CASTING MACHINE.** JULIUS DORNETH, Berlin-Konradshone, Germany, assignor to The Firm Typograph-Gesellschaft m. b. H., Berlin, Germany. Filed June 4, 1929, Serial No. 268,237, and in Germany Nov. 29, 1928. 9 Claims. (Cl. 199—51.)

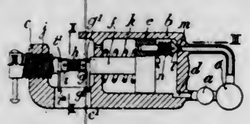
1. In a matrix-setting and type-line-casting machine of the type having a frame, matrices, ring spacers, wires

guiding said matrices and ring spacers, means to set the matrices, and ring spacers to a line, and means to bring the set line to the casting point and after the



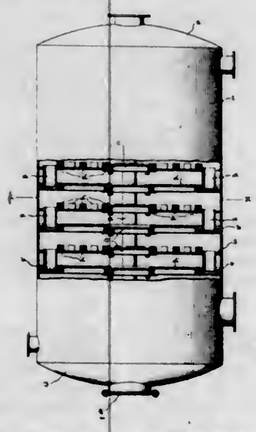
casting operation, to move away therefrom, a square spindle for the ring spacers and means to withdraw the square spindle from the ring spacers after the casting of the line.

1,780,817. MOTOR-DRIVEN SHEARS. CHARLES DUBOIS, Paris, France, assignor to Société Industrielle de Matétriel d'Entreprise et de Construction, Paris, France. Filed Feb. 6, 1930, Serial No. 426,425, and in France Feb. 28, 1929. 4 Claims. (Cl. 164—56.)



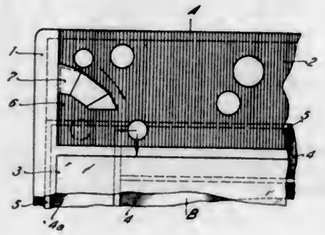
1. Shears actuated by a driving fluid under pressure and adapted to shear members of a definite width, comprising a cylinder having an inlet orifice and an exhaust orifice, a piston in this cylinder, a fixed cutter, a movable cutter actuated by the said piston, a valve on the exhaust orifice and opening inwardly of the cylinder, a spring adapted to close the said valve, the said spring being connected to the piston so as to be progressively stretched in proportion as the piston advances in the direction corresponding to the closing of the shears, a spring adapted to move the piston in the reverse direction, and means for continuously delivering the driving fluid into the cylinder through the said inlet orifice.

1,780,818. FRACTIONATING APPARATUS. WAYNE Z. FRIEND, Charleston, W. Va., assignor to Baltimore Gas Engineering Corporation, a Corporation of Maryland. Filed Sept. 17, 1928. Serial No. 306,564. 2 Claims. (Cl. 261—114.)



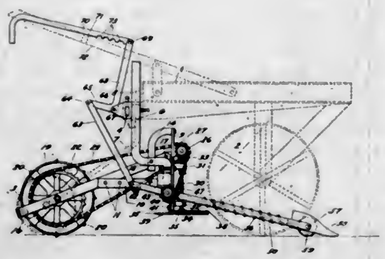
1. In a fractionating apparatus, a series of superposed plates, a shell enclosing said plates, a manhole in each plate, a removable cover completely closing each manhole, and a manhole in the shell provided with a removable cover to permit the operator to gain access to the interior of the shell and plates.

1,780,819. COIN ASSORTER. ARMAND GODEFROID, Berlin, Germany. Filed Feb. 20, 1929, Serial No. 341,423, and in Germany Feb. 24, 1928. 1 Claim. (Cl. 133—3.)



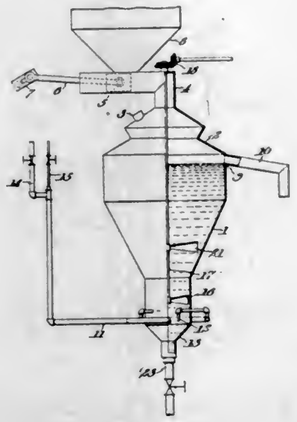
A coin assorter comprising a tilting table, a drawer having a separate compartment, and a deflector in line with said compartment and arranged so as to extend from one side of said table to a point short of the longitudinal edge of the table which faces the position assumed by the clerk so as to leave a space sufficient to permit the passage of small size coins by the deflector and to a point on the table opposite the separate compartment.

1,780,820. VEGETABLE TOPPER. ROY HAHN, Pleasant Valley, Iowa, assignor of one-half to William Leese. Filed Apr. 4, 1927. Serial No. 180,738. 6 Claims. (Cl. 55—107.)



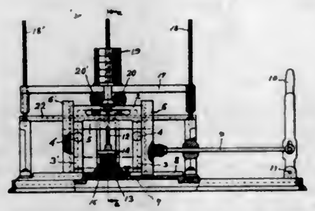
1. In a vegetable topper, a supporting framework, a pair of relatively angularly disposed guide bars carried by said framework, a shaft carried by the framework and extending between the guide bars, a cutter head carried by and rotating with said shaft in a horizontal direction and cooperating with the guide bars in cutting vegetable tops, means to cause actuation of said shaft and head, and means to elevate vegetable top and deliver them between the guide bars in position to be severed by the cutting head, the actuating means for the shaft including a trailer wheel and a frame in which the wheel is mounted, said frame being pivoted adjacent one end on the supporting framework to move vertically and follow the contour of the ground.

1,780,821. PROCESS OF AND APPARATUS FOR SLAKING LIME. WILLIAM H. HENDERSON, Youngstown, Ohio. Filed Apr. 6, 1928. Serial No. 267,934. 2 Claims. (Cl. 23—188.)



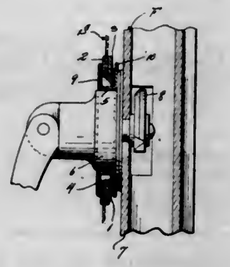
1. Process for the production of milk of lime from quick lime which comprises establishing an upwardly moving body of aqueous liquid having a progressively decreasing regulated rate of flow, countercurrently adding thereto quick lime containing hydratable and soluble solids and an insoluble residue in regulated amounts and at a regulated rate, thoroughly agitating the liquid and the lime and promoting hydration and solution of the hydratable and soluble components of the lime in a lower zone of said body, hydraulically segregating the insoluble residue at and removing the same from beneath the base of said body, and abstracting aqueous liquid with its dissolved and suspended solids at the top of said body.

1,780,822. MACHINE FOR TESTING AND QUANTITATIVELY INDICATING THE CUTTING POWER AND DURABILITY OF BLADES AND CUTLERY. KOTARO HONDA, Sendai, Japan. Filed Sept. 18, 1926, Serial No. 136,370, and in Japan Jan. 20, 1926. 4 Claims. (Cl. 73—51.)



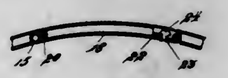
1. The method for the quantitative indication of the sharpness and durability of a cutting blade, consisting in stacking a number of thin laminated testing sheets of fibrous material, moving the blade to be tested a definite distance with a constant weight applied thereto and with its cutting edge contacting the uppermost sheet to effect a cutting action of the laminated sheets so as to determine from the number of cut sheets an indication of the sharpness of the said blade, and determining from the number of cutting repetitions necessary to reduce the cutting action to a definite fraction the durability of the blade.

1,780,823. SCREEN. PAUL GEORGE JOHNSON, Erie, Pa., assignor to Johnson Metal Products Co., Erie, Pa. Filed Jan. 21, 1930. Serial No. 422,428. 9 Claims. (Cl. 156—14.)



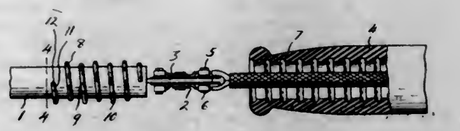
8. A window screen cloth having an opening, a floating baffle carried by the cloth and coacting with the opening.

1,780,824. EXTENSION DEVICE FOR BRACELETS. AUGUST F. KRAEMER, Providence, R. I., assignor to Louis Stern Company, Providence, R. I., a Corporation of Rhode Island. Filed July 12, 1929. Serial No. 377,739. 4 Claims. (Cl. 24—71.)



1. In a bracelet, an extension device comprising a plurality of hingedly connected members, the upper member having a lock loop depending from the free end thereof, the lower member having a lock loop extending upwardly from the end thereof which is adjacent the said free end when in folded position, the loop of said upper member being of larger diameter than the loop of said lower member to permit the smaller loop to snap past the center of the larger loop.

1,780,825. HANDLE ASSEMBLY. FRANK KUHN, Detroit, Mich., assignor to American Electrical Heater Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 3, 1927. Serial No. 223,733. 4 Claims. (Cl. 306—30.)

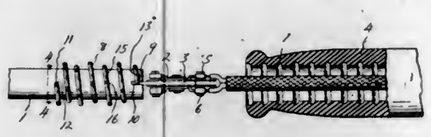


1. In a handle assembly, a shank, a helix on the shank and having portions of certain convolutions thereof extending tangentially to said shank and providing at spaced points about the periphery of said shank substantially V-shaped portions with the apices of the V's projecting outwardly with respect to said shank, and a handle threadedly engaging the apices of the V-shaped portion aforesaid.

1,780,826. HANDLE ASSEMBLY. FRANK KUHN, Detroit, Mich., assignor to American Electrical Heater Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 27, 1927. Serial No. 242,947. 3 Claims. (Cl. 306—30.)

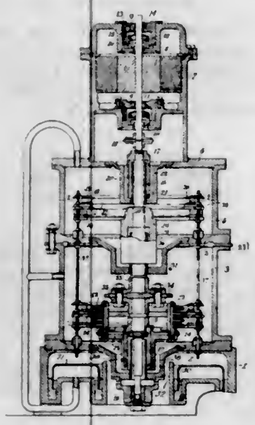
1. In combination, a cylindrical shank having a smooth external surface, and a helix having spaced convolutions

sleeved upon said external surface and having one end secured to said shank, the convolutions at the other end of the helix being freely movable longitudinally of the



external surface of the shank, the pitch of the convolutions at the fixed end of the helix being less than the pitch of the convolutions at the other end thereof.

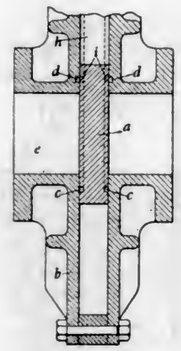
1,780,827. RECTIFIER OF THE SYNCHRONOUS TYPE. ANDRÉ LATOUR, Grenoble, France. Filed Dec. 14, 1926, Serial No. 154,773, and in France Dec. 16, 1925. 9 Claims. (Cl. 175—364.)



9. The combination, in a rectifier employing streams of mercury, of a first series of nozzles, a second series of nozzles, means for forming a continuous stream of mercury into the two series of nozzles, the said stream of mercury forming a pole of the rectified electric current, a collector arranged at the level of the said nozzles and adapted to be impinged upon by the streams of mercury issuing from the nozzles of the second series and to supply the alternating current which is to be rectified, the said nozzles being adapted to be moved relatively to the said collector, and commutation grids, the streams of mercury produced by the nozzles of the first series being longer than the streams of mercury produced by the nozzles of the second series, the said commutation grids being adapted to be impinged upon by the said longer streams and to avoid the formation of destroying sparks springing between the streams of mercury of the second series and the contact pieces of the collector at the moment the commutation takes place, and the said grids comprising a series of conductive bars and electric resistances connecting these bars together.

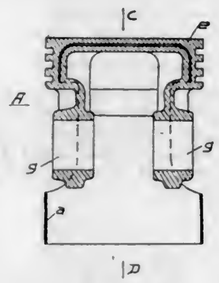
1,780,828. VALVE. ROBERT WILLIAM LEACH and WILLIAM HENRY BATEMAN, Newport, England. Filed Jan. 17, 1929, Serial No. 333,072, and in Great Britain Jan. 21, 1928. 5 Claims. (Cl. 251—51.)

5. In a valve, a body part having a passage therein, a part movable in the body part and also having a passage, lubricant distributing channels adapted for connection with a supply of lubricant under pressure situated in the adjacent faces of the two parts, said channels surrounding said passage and certain of the channels being put



out of communication with the lubricant supply means when the movable part is being moved from one position to another.

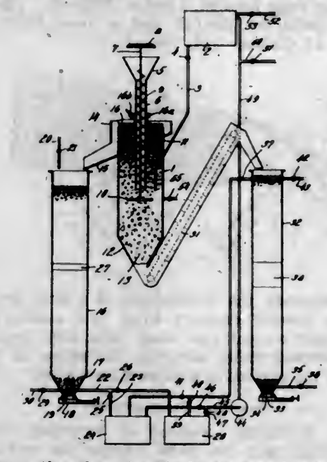
1,780,829. PISTON FOR INTERNAL-COMBUSTION ENGINES. ALFRED LESAGE, Brand-Erbisdorf, Germany, assignor to Elite-Diamantwerke Aktiengesellschaft, Brand-Erbisdorf, Saxonia, Germany. Filed July 24, 1928, Serial No. 294,968, and in Germany July 27, 1927. 1 Claim. (Cl. 74—108.)



A piston for internal combustion engines comprising in combination a light-metal head and a hard metal liner in the head, the said liner having perforations in the head and lateral openings in the wall for the passage of the piston pin bearings integral with the light-metal head while the said piston pin bearings do not come in contact with the said lateral openings in the wall of the piston and the cylinder wall.

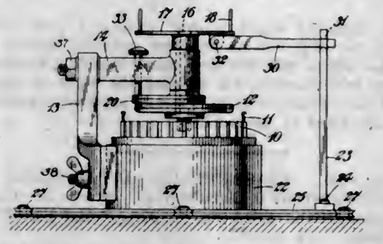
1,780,830. TREATMENT OF CARBONACEOUS MATERIALS. RUDOLF LESSING, London, England. Filed May 23, 1927, Serial No. 193,610, and in Great Britain May 27, 1926. 16 Claims. (Cl. 209—173.)

1. In the process of separating coal into its heavier and lighter components by delivering it into a bath of calcium chloride solution having a specific gravity intermediate between the specific gravities of the components to be separated so that the fragments of said heavier component sink and the fragments of said lighter component float, removing the floated material and removing



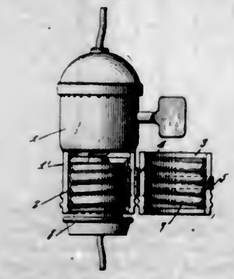
bath liquor therefrom by displacement with a continuous unbroken body of washing liquor until a predetermined small quantity of calcium chloride remains.

1,780,831. KNITTING MACHINE. HELEN GERTRUDE LEYTON and GEOFFREY BERTRAND LEYTON, Oxford, England. Filed Jan. 3, 1930, Serial No. 418,285, and in Great Britain Dec. 31, 1928. 5 Claims. (Cl. 66—135.)



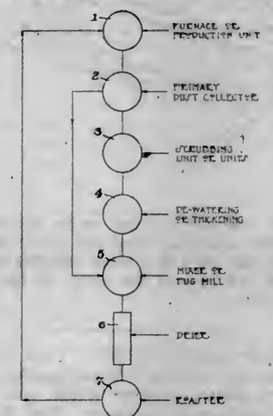
1. A knitting machine including a needle cylinder, a slotted dial mounted for vertical, eccentric and inclined adjustment with respect to the cylinder, thread guides movable radially in the dial, a cam for operating the thread guides, and means connected with the dial for supporting a plurality of spools carrying threads to be passed through the thread guides.

1,780,832. ELECTRIC-LIGHT SOCKET. SHASTA E. McADAMS, HOWARD P. SKAGGS, and JAMES T. SINGHURST, Erie, Kans. Filed June 4, 1928, Serial No. 282,605. Renewed Mar. 14, 1930. 3 Claims. (Cl. 173—362.)



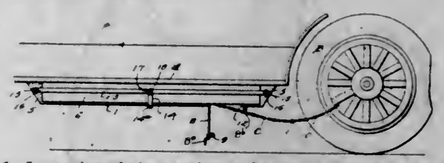
1. A socket of the class described having a receiving part of semi-circular shape in cross section and a door hinged to the socket, said door being of semi-circular shape in cross section and forming with the semi-circular part of the socket, when the door is closed, a complete circle for receiving a ping or lamp bulb, a threaded member of semi-circular shape in cross section in the semi-circular part of the socket and a similar member connected with the inner face of the door.

1,780,833. METHOD OF PROCESSING FURNACE DUST. WILLIAM J. MCGURTY, Baltimore, Md., assignor to The Bartlett Hayward Company, Baltimore, Md., a Corporation of Maryland. Filed Apr. 24, 1928. Serial No. 272,545. 2 Claims. (Cl. 75—14.)



1. That method of processing solids carried by gases emanating from a furnace which consists in discharging the gas into a dust collector and therein arresting a portion at least of the solids carried by the gas; passing the gas thus partially cleaned through a scrubbing unit wherein the gas is washed and a further recovery of solids is effected; dewatering the solids thus recovered; admixing such material with the solids removed by the dust collector; and then drying the mass.

1,780,834. CHAIN CARRIER AND PULL. JAMES R. MOORE, Springfield, Colo. Filed Aug. 25, 1927. Serial No. 215,401. 2 Claims. (Cl. 152—14.)

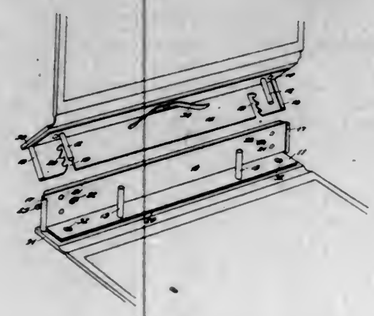


1. In a tire chain carrier, a hanger adapted to be secured to a motor vehicle running board and consisting of a base member having an opening therein adapted to aline with an opening in a tire chain container and through which a closure for the opening in the container is actuable, flanges offset from the base member for supporting the hanger on the running board, angular brace members at the ends of said hanger, a transverse strap secured to the base member, an arm hingedly secured to said strap, and a horizontal rod supported by said arm and provided with means to secure it to the angular brace members and to the container.

1,780,835. LOOSE-LEAF BINDER. JENS N. MORTENSEN, Brooklyn, N. Y., assignor to Boorum & Pease Company, New York, N. Y., a Corporation of New York. Filed Oct. 11, 1928. Serial No. 311,844. 3 Claims. (Cl. 129—13.)

1. In a loose leaf post binder, a flanged binding bar, the flange being slotted adjacent each end, and the edge of

each slot nearest the end of the flange being notched, in combination with a second flanged binding bar, movable studs carried by the flange of the second bar cooperating with the notches in the flange of the first bar, and stud-operating means on said second flange comprising a pin

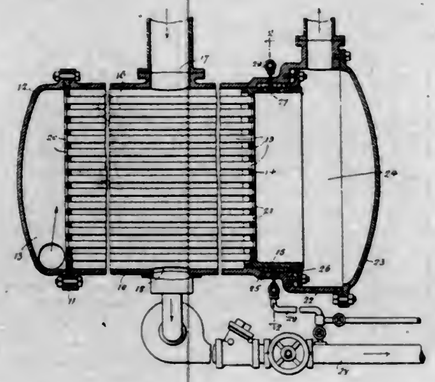


carrying each stud and a spiral spring surrounding each pin to press the stud away from the center of the binder to lock the binder, said pins being adapted to be pressed inwardly from the ends of the binder by the operator to unlock the binder.

1,780,836. NEW VAT DYESTUFFS. PAUL NAWIASKY and ARTUR KRAUSE, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Mar. 23, 1928, Serial No. 264,274, and in Germany Mar. 30, 1927. 5 Claims. (Cl. 260—32.)

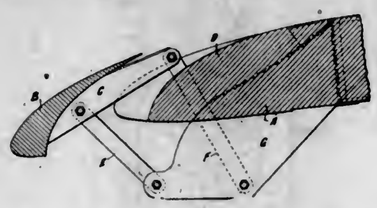
1. A process for the production of new condensation products, which consists in treating anthrapyrimidines with alkaline condensing agents.

1,780,837. SURFACE CONDENSER. ALBIN J. NOTT, New York, N. Y. Filed May 14, 1929. Serial No. 363,067. 3 Claims. (Cl. 257—43.)



1. A surface condenser including a drum, tubes extending therethrough, tube sheets with which the tubes are permanently sealed, one of the tube sheets being axially movable within the drum to compensate for longitudinal contraction and expansion of the tubes, a packing interposed between the movable tube sheet and that portion of the drum with which the movable sheet engages and means for introducing condensate from the condenser to the packing for maintaining the same in a moist condition.

1,780,838. MEANS FOR CONTROLLING AEROPLANES. FREDERICK HANDLEY PAGE, London, England, assignor to Handley Page Limited, London, England. Filed Jan. 23, 1928, Serial No. 248,919, and in Great Britain July 9, 1927. 12 Claims. (Cl. 244—12.)



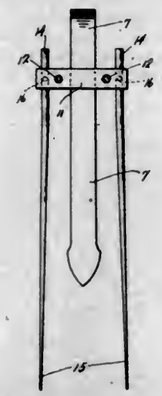
1. In aeroplanes, the combination of a main wing and a forwardly located auxiliary wing, said auxiliary wing freely movable toward and away from said main wing within prescribed limits solely by the action of the air pressure on the surface of said auxiliary wing.

1,780,839. WASHER. JUDSON C. PEWTHER, Wichita, Kans. Filed Mar. 30, 1929. Serial No. 351,389. 3 Claims. (Cl. 85—50.)



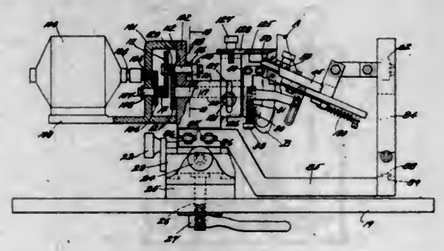
1. A bendable metal washer having a slot opening through one edge and an aperture inwardly spaced from the inner end of said slot, and means located between said slot and said aperture for drawing the walls of the slot toward each other when said means is driven against an object straddled by the washer.

1,780,840. GRASS-PULLING ATTACHMENT FOR SPRING-TOOTHED HARROWS. JOHN H. PIXLEY, Harrison, Mich. Filed Oct. 4, 1928. Serial No. 310,328. 3 Claims. (Cl. 55—97.)



1. A grass pulling attachment for harrow teeth comprising a pair of attaching plates disposed at the opposite faces of the harrow tooth, means carried by the plates for securing the same in position thereon, and a pair of grass pulling teeth adjustably secured to said attaching plates at opposite sides of the harrow tooth.

1,780,841. HEEL-SHANK-SHAPING MACHINE. LYMAN BARUCH POPE, Haverhill, Mass., assignor to Pope Machinery Corporation, Haverhill, Mass., a Corporation of Massachusetts. Filed June 9, 1928. Serial No. 284,032. 17 Claims. (Cl. 12—47.)

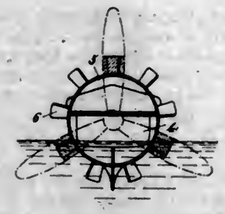


1. In a heel shank shaping machine, in combination, a shaping tool, a rotatably mounted shaft, a work carrier mounted on said shaft to rotate therewith, means for rotating said shaft to move the heel past said tool, means for clamping a heel upon said carrier, and means permitting the adjustment of the position of said heel to bring its breast at right angles to its axis of rotation.

1,780,842. PRODUCTION OF SULPHITE PULP. GEORGE A. RICHTER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Jan. 5, 1927. Serial No. 159,243. 12 Claims. (Cl. 92—11.)

1. A process which comprises digesting raw cellulosis material at elevated temperature and pressure conditions in a solution comprising sulphurous acid and ammonium sulphate.

1,780,843. PROPELLER FOR VESSELS AND AIRCRAFT. MAX SCHUL, Brussels, Belgium. Filed Aug. 2, 1928, Serial No. 296,973, and in Germany Aug. 3, 1927. 1 Claim. (Cl. 115—34.)

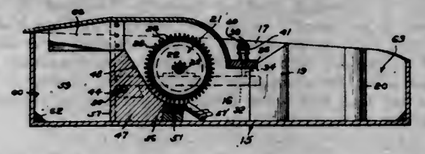


A propeller for vessels and aircraft, comprising, in combination, a member adapted to be moved transversely with respect to the longitudinal axis of the hull of the vessel or the body of the aircraft, and blades attached to said member and being formed by portions of an ideal propeller, the middle of the shaft of which coincides with the centre of said member, said portions being those, the efficiency of which lies between the maximum efficiency and another efficiency which is from 3 to 5% less.

1,780,844. APPLYING NITROCELLULOSE VARNISHES. HANS F. SCHULZ, Bomlitz, near Walsrode, Germany. Filed Nov. 30, 1926, Serial No. 151,827, and in Germany Dec. 4, 1925. 6 Claims. (Cl. 91—68.)

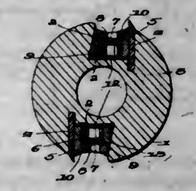
4. In a method of applying coats of nitrocellulose varnishes to surfaces of work with the aid of a primary binding layer, the using for the primary binding layer, of a nitrocellulose having a nitrogen content above 12.6%, and for the following layers, of nitrocelluloses having another nitrogen content than the nitrocellulose of the primary coating.

1,780,845. PAPER-PULP BEATER. WALTER N. SHERWOOD, North Hoosick, N. Y. Filed Oct. 13, 1928. Serial No. 312,363. 4 Claims. (Cl. 92—24.)



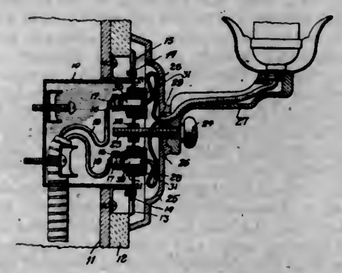
3. The method of beating paper pulp in the presence of water, comprising the steps of circulating the mass in a continuous passage, subjecting the pulp to the action of a high speed rotary beating roll driven at a speed of approximately 2500 to 3500 peripheral feet per minute and thereby projecting the pulp thus treated by the action of centrifugal force into the air from the high speed beating roll and causing the same to travel substantially completely across and above the pulp at the rear of the beating roll and collecting such projected pulp, and causing the collected pulp to travel at substantially a right angle to the direction of travel of the on-coming projected pulp for effecting a cross-mix.

1,780,846. CUTTER HEAD. ELMER S. SHIMER and HAROLD L. SHIMER, Milton, Pa., assignors to Samuel J. Shimer & Sons, Milton, Pa., a Corporation of Pennsylvania. Filed June 19, 1928. Serial No. 286,667. 1 Claim. (Cl. 144—230.)



A cutter-head of the character described comprising a body portion having a channel formed in a side thereof, the walls of said channel converging toward the periphery, said channel having an extended groove at a corner thereof, the base of the channel being flat and smooth from said groove to the opposite side wall, a knife disposed in said groove, a wedge-shaped block disposed in the channel and having an approximately flat under side to normally fit against the flat base of the channel, said block having a hole extending radially therethrough and of two different bores with a shoulder therebetween, the larger portion of the hole being innermost and screw-threaded, and a set-screw threaded into said larger portion and having a recess to receive a tool, the inner end of the set-screw being approximately flat to bear against the flat base of the channel.

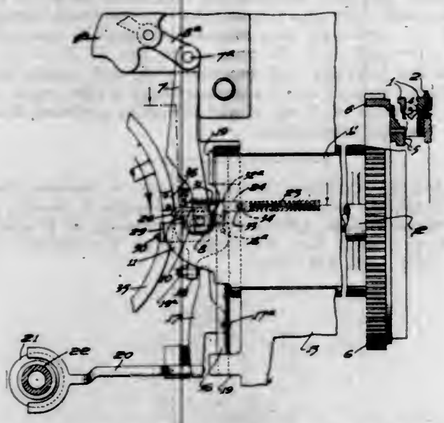
1,780,847. ELECTRICAL FIXTURE. ALFRED A. SMITH, New York, N. Y. Filed June 19, 1929. Serial No. 372,183. 4 Claims. (Cl. 240—85.)



1. In a device of the character described, a wall box, a cover for said box extending beyond the forward edges

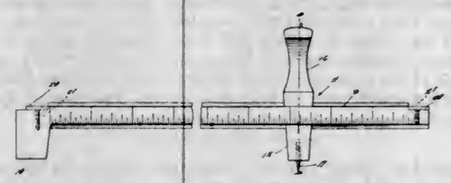
thereof, a wall connecting flange carried by said box and extending therefrom in spaced relation to said cover, a pair of spaced conductor receiving plugs carried by said cover, a threaded bushing centrally arranged in said cover, an ornamental outer cover for said wall box and its cover, a light fixture bracket mounted on said outer cover, and a threaded bolt extending through said bracket and outer cover for threadedly engaging said bushing to retain the wall box outer cover and bracket in assembled position.

1,780,848. SAFETY DEVICE FOR TYPOGRAPHICAL MACHINES. ARTHUR G. SPEARY, Hollis, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Aug. 31, 1929. Serial No. 389,826. 10 Claims. (Cl. 199—52.)



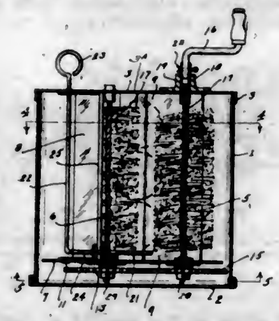
1. A typographical machine including means for supporting a line of matrices, a mold carrier and mold movable to present the mold to the line of matrices, power-driven means for moving the mold carrier, and means on the mold carrier for yieldingly transmitting motion thereto from said power-driven means.

1,780,849. SIDING GAUGE AND SCRIBE. PORTER R. SPILLMAN, South Bend, Ind. Filed Sept. 28, 1928. Serial No. 308,900. 1 Claim. (Cl. 33—187.)



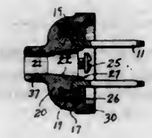
A siding gauge comprising a graduated measuring stick functioning as a rule and provided at its opposite ends with notches and formed at one end with a right angularly disposed extension functioning as a stationary abutment, a slide comprising a body having an opening receiving said rule, a bearing plate located in said opening and in slidable contact with said rule, said bearing plate having a recess formed therein, a set screw carried by said slide and having its shank portion extending into said recess, the portions of said slide extending in opposite directions on opposite sides of said rule, one portion being formed to provide a hand grip, the other portion constituting a slidable abutment for cooperation with the first-named abutment, the last named portion being equipped with an anchoring spur, and a pair of metal fingers removably mounted in the notches at the ends of said rule, said fingers extending in a direction at right angles to said abutments and to said rule.

1,780,850. GOLF-BALL WASHER. CHARLES W. STRONG, Portland, Oreg. Filed Aug. 31, 1927, Serial No. 216,622. Renewed Sept. 22, 1930. 3 Claims. (Cl. 15—21.)



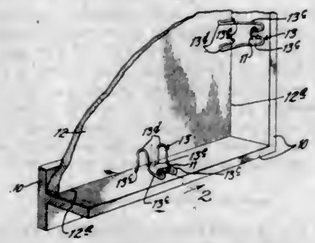
1. In a device of the class described, the combination of a liquid holding body, a removable closure adapted to the top of the body and having an opening therein, a base disposed within the body, suspending elements disposed between the closure and the base, means removably securing said base to the suspending elements, a multiple of bristle elements vertically disposed within the body and journaled in the base and closure, common driving elements for the bristle elements, and means for removing golf balls from the body through the opening in said closure.

1,780,851. PLUG CAP. HERMAN L. STRONGSON, New York, N. Y. Filed Mar. 27, 1929. Serial No. 350,146. 13 Claims. (Cl. 173—361.)



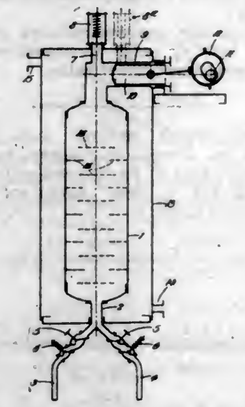
1. An electrical plug cap comprising a soft rubber-like body provided with a wire passage, a pair of feet of substantial length embedded within the body and separated at their ends by short stretches of rubber and separated at their centers by the passage, a contact upstanding from each foot, and wire connecting means.

1,780,852. GLAZING CLIP. LEO V. SULLIVAN, Warren, Ohio. Filed May 17, 1929. Serial No. 363,954. 1 Claim. (Cl. 189—78.)



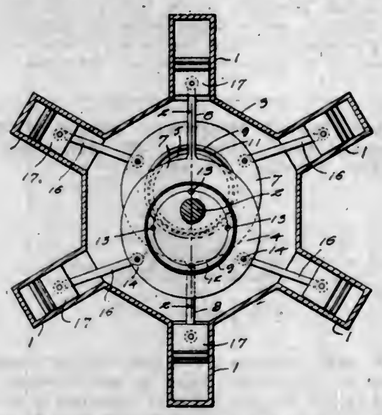
A glazing clip formed of a single piece of wire bent in the middle to form a double wire, said double wire formed into an upwardly turned hook adapted to be inserted into a hole in a frame member, the two ends of the wire from said hook being carried downwardly to form spacing members with their lower ends separated and bowed to form spring portions, the extreme ends of the wires being bent downwardly to form projections adapted to be snapped over the edge of a pane of glass.

1,780,853. EMULSIFYING AND ANALOGOUS APPARATUS. VINCENT GREGORY WALSH, London, England. Filed Dec. 26, 1929, Serial No. 416,718, and in Great Britain Oct. 4, 1928. 2 Claims. (Cl. 259—98.)



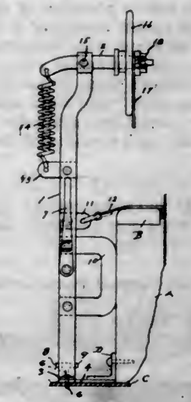
1. Apparatus of the class described comprising a closed container having inlet means for admitting thereto material to be treated, a discharge valve for said container, and reciprocatory means for subjecting material in said container to a continuous series of oscillations of pressure and thereby effecting continuous changes in the volume of the material according to the compressibility thereof, the discharge valve being operative to discharge part of the material from said container under the increases in pressure to which the material is subjected and to close under the intervening decreases in such pressure.

1,780,854. INTERNAL-COMBUSTION ENGINE. CLEAL T. WATTS and FRANK N. BAY, Albia, Iowa. Filed Dec. 29, 1928. Serial No. 329,262. 3 Claims. (Cl. 74—1.)



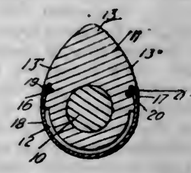
2. In an internal combustion engine, a plurality of cylinders arranged radially about a fixed center, a shaft arranged transversely of the engine upon said center, a pair of eccentric bodies cast integral with said shaft in side by side relation and extending in diametrically opposite directions, eccentric straps about said bodies, pistons in each of said cylinders and connecting rods attached to each of said pistons, the rods of certain of the pistons being connected to one eccentric strap and those of the remaining pistons being connected to the other eccentric strap, said eccentric straps having recesses formed in the peripheral faces thereof in each of which an inner end of a connecting rod positions for connection with the strap.

1,780,855. TOY. WILLIAM R. WILLIAMS, Salt Lake City, Utah. Filed Sept. 20, 1928. Serial No. 307,289. 2 Claims. (Cl. 46—37.)



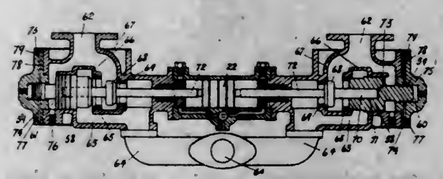
1. In a toy of the character described comprising an upright support carrying a shaft pivotally attached to its upper end, said shaft having a wheel on one end thereof and a spring on the other end thereof, said wheel to be moved by a child, said spring at its lower end being attached to the support, said spring holding said shaft in its proper position, graduate marks on the face of said wheel to indicate to the child the desired movement it wishes to make of the wheel, levers pivotally placed on said support, means for attaching said toy to a vehicle all substantially as set forth.

1,780,856. VALVE-OPERATING MECHANISM. JOSEPH FERDINAND ADAM, Toronto, Ontario, Canada, assignor of one-half to Joseph Tessier, Toronto, Ontario, Canada. Filed Aug. 27, 1928. Serial No. 302,872. 4 Claims. (Cl. 74—1.)



1. The combination with a cam body, of a resilient member carried by the cam body and forming the heel portion of the cam.

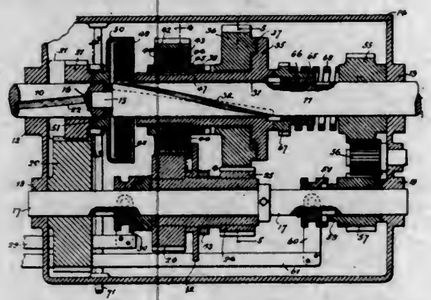
1,780,857. ENGINE DRAIN OR COMPRESSION-RELIEF VALVE. JOHN GALILEO BARCLAY and COLIN THOMSON BARCLAY, Kilmarnock, Scotland. Filed Dec. 18, 1929, Serial No. 415,086, and in Great Britain Oct. 22, 1928. 10 Claims. (Cl. 121—184.)



3. A relief or drain valve apparatus for a reciprocating engine comprising a valve chamber having a plurality of of inlet ports, each communicating with an inlet passage connected to the engine cylinder, one of said ports com-

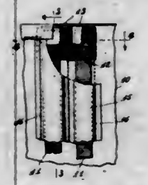
municating with an enclosed space at the end of said chamber, a plurality of coaxial outlet ports in said chamber and coaxial therewith, each outlet port being constituted by a valve seat, a plurality of coaxial valve elements, each adapted to seat upon one of said valve seats, one of said valve elements being constituted by a trunk piston which forms one confining wall of said enclosed space, said valve elements being operatively associated to simultaneously close upon their seats under the pressure of fluid admitted to said enclosed space, and automatic means for lifting said valve elements off their seats.

1,780,858. POWER TRANSMISSION. CLAUDE BEARENS, Brooklyn, N. Y. Filed July 28, 1928. Serial No. 295,996. 12 Claims. (Cl. 74—59.)



1. In a multiple speed selective gear transmission which includes a drive shaft, a driven shaft and a counter shaft having constant operative connection with the drive shaft; a tubular shaft section on the counter shaft having low and intermediate speed gears secured thereto, manually operable means for coupling said tubular shaft section to and uncoupling the same from the counter shaft, a sleeve having a clutch face, mounted on the driven shaft, a spiral splined connection betwen the sleeve and driven shaft, a low speed gear loosely mounted on said sleeve having a clutch face adapted for engagement with the clutch face of the sleeve for obtaining low speed drive, an intermediate speed gear loosely mounted on said sleeve, a normally inactive multiple disk clutch connection between said intermediate gear and the sleeve adapted when active to obtain an intermediate speed drive, a normally active multiple disk clutch connection between said driven shaft and drive shaft, disk clutch actuating means operable to successively render the multiple disk clutches active upon shifting of the sleeve in one direction and tensioned means operating upon said sleeve to shift the same axially for effecting the selective actuation of the transmission in accordance with the load.

1,780,859. CORSET-STEEL PROTECTOR. MARGARET L. BENZIE, New York, N. Y. Filed May 4, 1929. Serial No. 360,531. 3 Claims. (Cl. 2—257.)

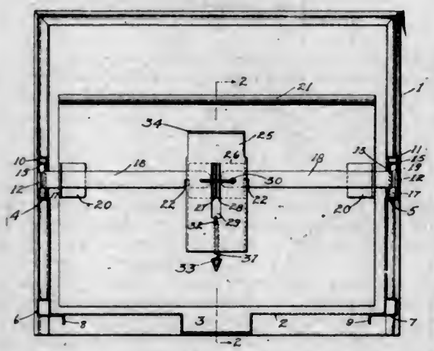


3. The combination of a stay, a metal tip, a piece of fabric, said tip having integral means securing the tip to said fabric, said tip embracing said stay and fabric, and said fabric projecting beyond the edges of said tip, whereby said tip may be secured to an article by means of stitching passing through said fabric.

1,780,860. BETAINETHIOCYANATE. RUDOLF BERENDES and LUDWIG SCHÜTZ, Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed June 18, 1928, Serial No. 286,484, and in Germany June 28, 1927. 1 Claim. (Cl. 260—25.)

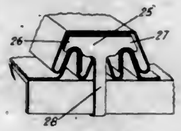
Betaine thiocyanate, forming colorless crystals of the melting point 167° C. (with decomposition) and being a product of great therapeutical value.

1,780,861. FOLLOWER BLOCK. CONRAD BERGMANN, Philadelphia, Pa., assignor to Columbia Steel Equipment Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 7, 1929. Serial No. 330,728. 10 Claims. (Cl. 129—28.)



1. In a filing compartment having side walls, longitudinal recesses extending therealong, ratchet members arranged longitudinally of the sides of said side walls, a follower block within said cabinet arranged transversely of said side walls, bearing means for said follower block extending along said recesses and having a contact member thereon for contacting with said ratchet members to normally permit movement of the follower block in but a single direction, and a single means for actuating both bearing members to release the contact member to permit movement of the follower block in both directions.

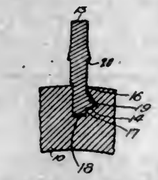
1,780,862. METAL SHEETING. RICHARD R. BLOSS, Columbus, Ohio. Filed Dec. 17, 1927. Serial No. 240,900. 3 Claims. (Cl. 189—88.)



1. A joint structure for metal sheeting comprising gutters on the adjacent edges of said sheeting, beads formed in said sheeting and lying outwardly of said gutters, a cap strip having complemental beads to embrace the beads of said sheeting, and clamping means for embracing the beads of said cap strip from within and clamping said cap strip to said sheeting.

1,780,863. JORDAN PLUG. BROWNELL BUEHLER, Philadelphia, Pa., assignor to Noble & Wood Machine Company, Hoosick Falls, N. Y., a Corporation of New York. Filed Aug. 28, 1929. Serial No. 389,002. 8 Claims. (Cl. 92—27.)

2. In a device of the type described, a bar and a rotatable body having a groove, said bar having an enlargement upon its groove-engaging portion forming a longitudinally-extending rib combining with the bar to produce a wedge-shaped portion the butt end of which is disposed toward the bottom of the bar, the bottom of the bar converging



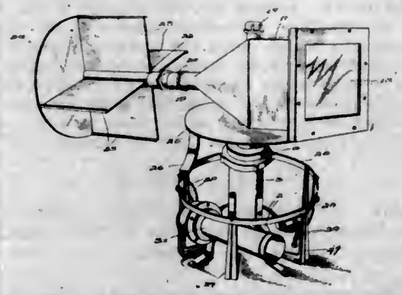
upon said rib from end to end of the bar, the groove being formed to receive said bar and having a shoulder for engagement with the rib simultaneously with the engagement of the bottom of the bar with the bottom of the groove when the bar is fully seated in the groove.

1,780,864. NONSKID DEVICE FOR THE WHEELS OF ROAD VEHICLES. FREDERIC BULL and FRANK WHITE, Walsall, England. Filed Sept. 9, 1929, Serial No. 391,420, and in Great Britain Mar. 25, 1929. 8 Claims. (Cl. 152—14.)



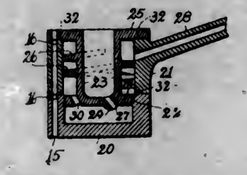
1. In a non-skid device a plate element, a spindle on said plate, and a roller on said spindle, the roller being adapted to take the majority of the wear to which the non-skid device is subjected by its engagement with the road.

1,780,865. LOCOMOTIVE HEADLIGHT. WILLIAM N. COBBS, Pittsburgh, Pa. Filed Dec. 22, 1928. Serial No. 327,831. 6 Claims. (Cl. 240—62.)



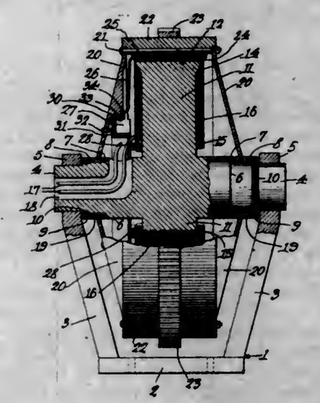
1. The combination of a headlight for a vehicle, tubular supporting means for said headlight for pivotal movement, bearings upon which said tubular supporting means is mounted, means removably projecting through the tubular supporting means and carrying a lamp positioned in the headlight, said lamp being smaller in diameter than the tubular supporting means, and a weather vane connected with the headlight for automatically causing a turning movement thereof corresponding with the direction of movement of the vehicle.

1,780,866. SMOKER'S PIPE. WALTER E. COPITHORN, Natick, Mass. Filed May 27, 1927. Serial No. 194,646. 4 Claims. (Cl. 131—12.)



1. A smoker's pipe comprising, in combination, a stem portion, a body portion having a bowl therein, a cistern removable from said body, the lower portion of said bowl extending to said cistern and having a restricted outlet thereto, the walls of said body and bowl being spaced apart to provide a chamber between, a transverse partition between said chamber and said cistern provided with a restricted outlet therethrough, said pipe stem having a passage therein communicating with said chamber at or near the top thereof.

1,780,867. INVERTED ELECTRIC MOTOR. EMANUEL CORNELLA, Chicago, Ill. Filed May 2, 1929. Serial No. 359,860. 1 Claim. (Cl. 172—36.)

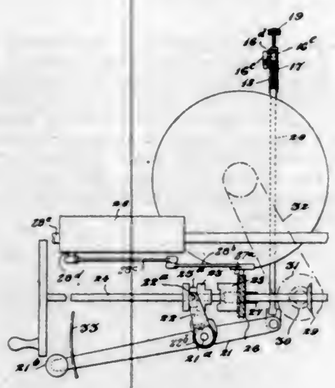


In a motor of the class described, a stator including a fixed shaft, field magnets carried by the shaft, a rotor including rings journaled on the shaft, side plates connected to the rings, an annular body secured between the side plates, armature windings carried by the body, one side plate being thickened to form an internal annular shoulder disposed concentrically with respect to the shaft, a ring located within the shoulder and engaged therewith, commutator segments connected to the armature windings and disposed within the ring, an annular retainer disposed within the ring, the retainer embodying an inwardly extended flange arranged parallel to the shaft, and an outer flange arranged at right angles to the shaft, the outer flange extending toward therein, the flanges and the ring forming a casing for the segments, means for securing the segments to the ring and to the flanges of the retainer, and securing elements connecting the outer flange of the retainer with said side plate.

1,780,868. KNIFE-GRINDING MECHANISM FOR USE WITH SLICING MACHINES. EDWIN COULSON, Chiswick, London, England. Filed May 7, 1928, Serial No. 275,926, and in Great Britain June 1, 1927. 3 Claims. (Cl. 51—248.)

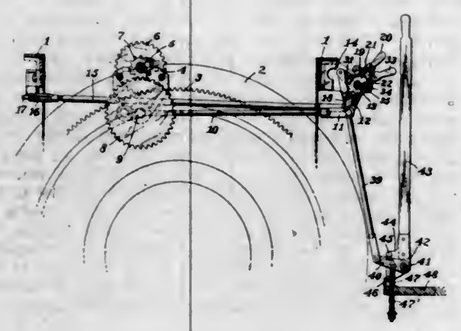
2. A grinding mechanism for slicing machines of the rotary disc knife and reciprocating carriage type com-

prising a support, a pair of grinding wheels rotatably and slidably mounted relatively to said support, means for moving said wheels into and out of contact with the knife edge, a rotatable driving shaft, means driven from said shaft for effecting a reciprocation of the carriage, a clutch member slidably but non-rotatably mounted on said driving shaft, an actuating means adapted to effect the engagement and disengagement of the said clutch member, means connecting said actuating means to the means for



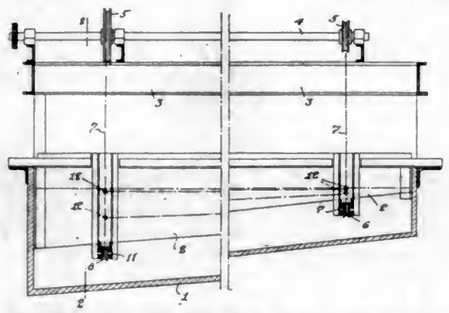
moving the grinding wheels into and out of their acting position the connection between the actuating means and the clutch member and between the actuating means and the grinding wheel control means being such that the operation of moving the said member for disengaging the clutch and thereby disconnecting the carriage reciprocation mechanism from the driving shaft simultaneously causes the member connecting the actuating means and the grinding wheel control means to cause the said grinding wheels to move into their acting position.

1,780,869. POWER-CONTROL MECHANISM. FRED L. DAKE, Nunda, N. Y., assignor to The Foote Company, Inc., Nunda, N. Y., a Corporation of Delaware. Filed Apr. 12, 1929. Serial No. 354,539. 17 Claims. (Cl. 74—39.)



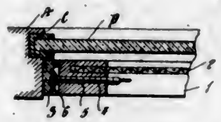
1. A power operating control comprising a control shaft, means for oscillating said shaft, a control lever loosely mounted on said oscillating shaft, a handle on said control lever, means for locking said handle to said control shaft to thereby operate the control lever by an oscillation of the control shaft.

1,780,870. DEVICE FOR TREATING ROUGH TUBES AND ANALOGOUS ARTICLES WITH LEAD. GASTON DE DUDZEELE, Paris France. Filed Nov. 13, 1928, Serial No. 319,176, and in France Nov. 16, 1927. 4 Claims. (Cl. 91—12.6.)



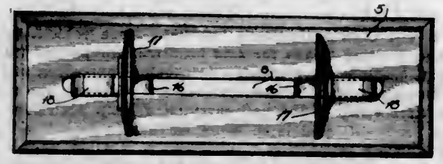
1. In a device for treating rough hewn tubes and analogous articles with lead comprising, in combination, an inclined melting pot, a diaphragm disposed in said melting pot in spaced relation to the bottom thereof, a plurality of pulleys on said diaphragm disposed at equal distances from the bottom of said melting pot, a plurality of pulleys of decreasing diameters cooperating with said first named pulleys, a chain passing over each pair of said first and second named pulleys, and a finger mounted on each of said chains whereby the articles to be treated are passed around said diaphragm in inclined position from one of said chambers to the other for the purpose disclosed.

1,780,871. SCREEN FOR WINDOWS, WINDSHIELDS, AND THE LIKE. GEORGE A. DICKSON, Medway, Mass., assignor of one-third to Lillian M. Dickson, Medway, Mass., and one-third to James A. Anderson, City Mills, Mass. Filed June 27, 1929. Serial No. 374,138. 2 Claims. (Cl. 156—14.)



1. A screen for windows, windshields and the like, comprising a frame shaped and proportioned to fill an opening in a window casing and the like and having screen fabric secured thereto, packing material secured to the outer edges of said frame to prevent abrasion of the engaged surface of the window casing and providing a weather and insect proof between the frame and window casing, and means mounted in the frame and engaging the packing to clamp the frame in the casing, the packing adjacent to said means being unsecured to the frame to permit movement thereof away from the frame by adjustment of said means.

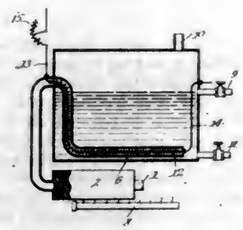
1,780,872. BOOK RACK OR SUPPORT. HENRY J. DUMBEN, Waterville, Iowa. Filed Dec. 28, 1928. Serial No. 329,031. 8 Claims. (Cl. 211—43.)



1. In a book support of the character described including an elongated base having a central longitudinal slot

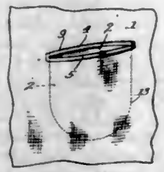
therein, a cut away portion formed in the underside of the elongated base, a pair of longitudinal strips having one of their ends grooved and secured in the cut away portion of the elongated base, a pair of sliding supporting members loosely mounted in the grooved portion of said longitudinal strips, a slidable block secured to each of the slidable supporting members, a book end support secured to each of the slidable blocks, and means associated with the slidable supporting member for holding the slidable supporting members in place relative to the elongated base.

1,780,873. PROCESS OF TREATING HYDROCARBONS. CLARENCE J. FRANKFORTER, Lincoln, Nebr., assignor to Frankforter Oil Process, Inc., Omaha, Nebr., a Corporation of Nebraska. Filed Aug. 27, 1929. Serial No. 388,646. 29 Claims. (Cl. 196—24.)



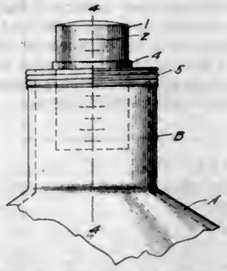
1. The process of treating liquid hydrocarbon oils and distillates containing sulphur and sulphur compounds, while in heated condition, comprising chemically re-acting upon the sulphur and sulphur compounds with a gas containing hydrogen preliminarily activated by contact with a heated contact substance, by presenting the activated gas to the liquid and further activating the gas in contact with a heated contact substance in the presence of the liquid to cause intimate contact of the activated gas with the sulphur and the sulphur compounds to produce chemical union therewith and to change the major portion of said sulphur and sulphur compounds into volatile sulphides, and separating said sulphides.

1,780,874. SHIRT POCKET AND METHOD OF MAKING THE SAME. JACOB FRIEDMANN, Freeport, N. Y., assignor to Kaylon, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 7, 1930. Serial No. 442,315. 3 Claims. (Cl. 2—247.)



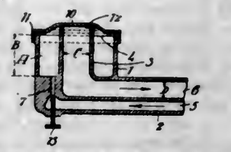
2. The method of providing a shirt with a pocket, which consists in stitching a pocket piece along the edge to the inner face of a shirt, forming a pocket opening in the shirt below the line of the aforesaid connection of the pocket piece with the shirt, securing to the outer face of the shirt, a slitted reinforcement, with the slit therein in alignment with the pocket opening in the shirt, turning the members of said reinforcement separated by the slit through the pocket opening, securing the inturned portion of the lower of said members against the inner face of the shirt, securing the inturned portion of the upper said member to the pocket piece and shirt, and stitching the previously free edges of the pocket piece to the shirt.

1,780,875. BOTTLE CAP AND MEASURING DEVICE. EDWARD L. GORDON, McKees Rocks, Pa. Filed Nov. 25, 1927. Serial No. 235,707. 1 Claim. (Cl. 215—57.)



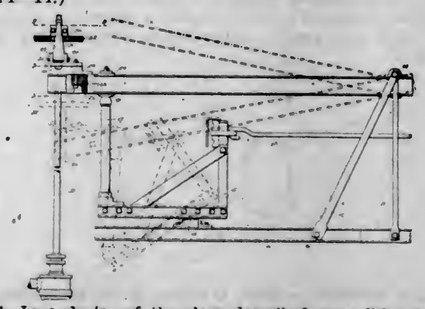
A combined bottle closure and measuring device, comprising a cap having an annular depending flange for association with the bottle, and characterized by an enlarged centrally located opening, an upwardly extending flange rising from the edge of said opening, a one-piece cup like measuring vessel arranged in said opening and frictionally supported by the last mentioned flange, said vessel being normally inverted and used as a stopper, and adapted to be arranged in an upright position for use subsequent to the removal of the cap from the bottle and inverting said cap, and graduations provided on said vessel and cooperating with the last mentioned flange of the cap as and for the purpose specified.

1,780,876. VIBRATORY APPARATUS. CARL GROSSE, Berlin-Hermsdorf, Germany. Filed Mar. 8, 1928, Serial No. 260,129, and in Germany May 12, 1927. 2 Claims. (Cl. 128—64.)



2. A fluid-driven vibratory apparatus for massage purposes including a casing, a duct for the inflow of the fluid, a duct for the outflow of the fluid, a handle having inflow and outflow ducts communicating with the first mentioned ducts, both ducts in the handle being connected to the ducts in the casing with a sharp change of direction, said casing forming an annular space, a yielding diaphragm for receiving the fluid stretched freely movable over the annular space, the portion of the diaphragm overlying said annular space being freely movable inwardly and outwardly.

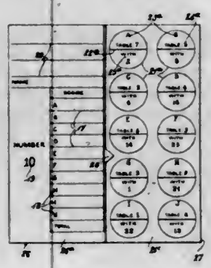
1,780,877. SUCKER-ROD TURNER. FRANK H. HALL, Bradford, Pa., assignor to Bovaird & Company, Bradford, Pa., a Copartnership composed of Joseph H. Bovaird, George W. Bovaird, and Mary B. Downs. Filed July 16, 1928. Serial No. 292,978. 2 Claims. (Cl. 74—14.)



1. In a device of the class described, a walking beam, means for swinging the walking beam, a polish rod, a guide

for the polish rod having trunnions mounted on the free end of walking beam, a ratchet wheel on the upper end of the polish rod, a laterally extending member secured to the free end of the walking beam and having an angular end, and a pawl pivoted to the angular end of said member and extending upwardly for engagement with the ratchet wheel, said pawl having an arm between its pivot and the point of engagement with the ratchet wheel for holding it in engagement with the ratchet wheel.

1,780,878. TALLY. CLARA C. HARRIS, Sabina, Ohio. Filed Apr. 13, 1928. Serial No. 269,741. 4 Claims. (Cl. 283—49.)

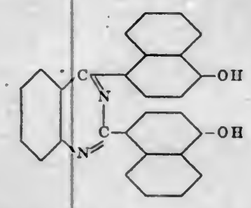


1. A tally for games played progressively at a tournament involving either of two different number of tables, said tally being formed of a plurality of foldably connected sections, one of said sections having printed on one face thereof a score field, the two remaining sections each having printed on one of its faces a series of guiding instructions, one of the two remaining sections having its series of guiding instructions displayed on the face thereof opposite to the display face of the other remaining section so that the first mentioned remaining section may be folded against the back face or against the front face of the second mentioned remaining section to leave exposed only one of the series of guiding instructions and to conceal the other series and means for holding the first mentioned remaining section in either of its operative positions.

1,780,879. CONDENSATION PRODUCT OF THE BENZODIAZINE SERIES. WINFRID HENTRICH and MAX HARDTMANN, Wiesdorf-on-the-Rhine, and RUDOLF KNOCHE, Leverkusen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Mar. 8, 1928, Serial No. 260,239, and in Germany Mar. 18, 1927. 5 Claims. (Cl. 260—32.)

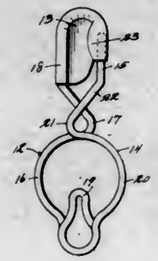
1. Process for producing new condensation products of the benzodiazine series, which process comprises causing a halogenated benzodiazine containing at least one halogen atom in the diazine nucleus to react upon an aromatic phenolic compound in the presence of aluminum chloride.

5. As a new product 2.4-di- (4'-hydroxynaphthyl)-quinazoline



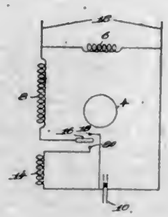
being a yellowish powder, insoluble in water, soluble in alcohol with a yellowish coloration and in concentrated sulfuric acid with an intense violet coloration.

1,780,880. BAG CLASP. ERIC G. JOHNSON, Trenton, N. J., assignor of one-half to Leonard M. Davenport, Trenton, N. J. Filed Mar. 25, 1930. Serial No. 438,790 4 Claims. (Cl. 24—30.5.)



4. A clasp of the character described comprising a resilient wire member, a locking member secured to one end of said wire and adapted to releasably engage the opposite end thereof, said wire having a pair of arcuate portions intermediate the ends thereof, an anchor integrally formed with said wire and adapted to prevent turning of a laundry net bag secured within said clasp, and gripping means integrally formed with said wire and positioned intermediate the free ends thereof and said arcuate portions, said gripping means being adapted to prevent longitudinal movement of the clasp on the bag and cooperating with said anchor whereby to prevent circumferential movement of the clasp on the bag.

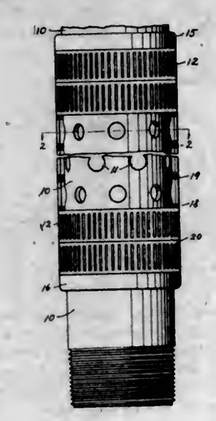
1,780,881. INDUCTION MOTOR. CARLTON L. KENNEDY, Braintree, Mass., assignor to The Holtzer-Cabot Electric Company, Roxbury, Mass., a Corporation of Massachusetts. Filed Oct. 15, 1926. Serial No. 141,756. 4 Claims. (Cl. 172—278.)



4. An induction motor having, in combination, a rotor, a stator having a line winding and an auxiliary winding displaced from the line winding, a condenser circuit including the auxiliary winding and a condenser connected in parallel with the line winding and maintained continuously energized under running conditions, the reactance of the condenser being sufficient to draw a leading current in the condenser circuit under running conditions, and means for placing additional inductive reactance in series with the condenser in the condenser circuit to approach resonance at starting.

1,780,882. WELL SCREEN. MARTIN F. KETTLER, Houston, Tex. Filed July 18, 1929. Serial No. 379,217. 4 Claims. (Cl. 166—5.)

1. A well screen having in combination a perforated tube, a series of individual reenforcing and straining rings each of channel shape in cross section having spaced inwardly directed annular flanges to engage directly on the wall of the perforated tube, said rings butting one against the other on said tube and being shrunk on said perforated tube with their webs in spaced relation to the tube and covering certain of the perforations therein, said webs having straining openings therein, the perforations in said tube being arranged to provide a plurality of circumferential perforated portions and imperforate circumferential portions extending completely around said tube and be-

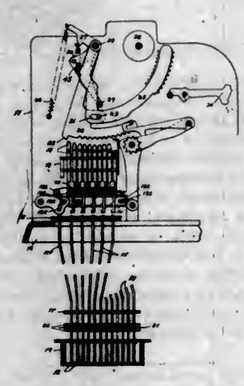


tween perforated portions thereof, said rings being arranged with their flanges between each pair of perforated portions whereby to reenforce the perforated portions of the tube.

1,780,883. SOLUTION OF CELLULOSE DERIVATIVES. ANGELO KNORR, Berlin, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Mar. 16, 1928, Serial No. 262,329, and in Germany Dec. 23, 1924. 18 Claims. (Cl. 134—79.)

2. A cellulose lacquer comprising a cellulose derivative, the hydrogen atom of at least one hydroxyl group of which is substituted by alkyl or acyl, dioxane and a liquid hydrocarbon.

1,780,884. TABULATING MACHINE. MARTIN LEBEIS, Berlin, Germany, assignor to Remington Rand Incorporated, New York, N. Y., a Corporation of Delaware. Filed Oct. 23, 1929, Serial No. 401,832, and in Germany Oct. 9, 1925. 18 Claims. (Cl. 235—61.)

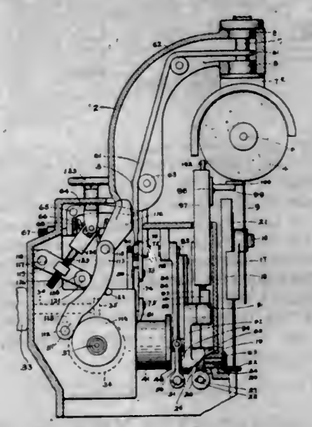


1. In a machine of the class described, a registering mechanism, setting means therefor consisting of one or more units of aligned stops, setting members for said means mounted for movement in the direction of alignment of said stops, a card analyzer for individually actuating said setting members both in a sliding direction and collectively in the direction of alignment of said stops.

1,780,885. PROCESS OF DEGREASING TEXTILE MATERIALS. WILHELM PFAFFENDORF, Hochst-on-the-Main, Germany, assignor, by mesne assignments, to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed May 26, 1927, Serial No. 194,533, and in Germany June 14, 1926. 1 Claim. (Cl. 87—6.)

The process which comprises washing textile materials with ethylene chloride $CH_2Cl—CH_2Cl$ at a temperature between about 0° C. to about 80° C.

1,780,886. CIRCULAR-SAW-SHARPENING MACHINE. JOHN F. PRIBNOW, San Diego, Calif., and EUGENE F. MITCHELL, Spokane, Wash.; said Mitchell assignor to Arthur W. Pribnow, San Diego, Calif.; M. L. Schultz administrator of said John F. Pribnow, deceased. Filed Feb. 23, 1928. Serial No. 256,456. 12 Claims. (Cl. 76—40.)



1. In a saw sharpening machine, a supporting arm, a grinding head journaled in the supporting arm, a flexible member secured to the grinding head, tensioning means connected to one end of the said flexible member, cam controlled means connected to the other end of said flexible member adapted to move the flexible member lengthwise in one or more directions, and thus oscillate said grinding head and means adapted to adjust the relative positions of said cam controlled means while in motion to limit the degree of the oscillation of said grinding head.

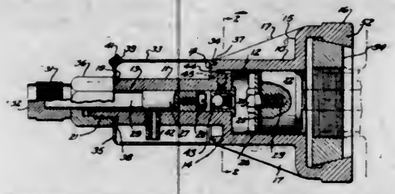
1,780,887. MARCEL CAP. MABEL H. THORNBURGH, Denver, Colo. Filed May 6, 1929. Serial No. 360,637. 1 Claim. (Cl. 2—198.)



A cap having a central portion shaped to fit the top of the head and having an oval space in the rear above the neck, this space being open at the bottom and closed at the top by a gathered portion provided with an elastic

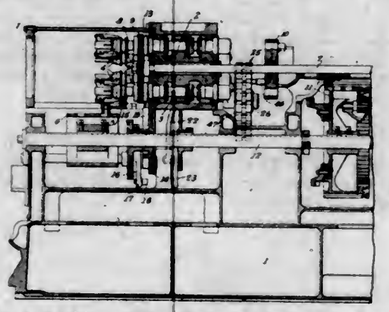
element normally holding the edge adjacent the opening in the retracted position, a loose flap partially closing said rear space and connected at the top to the elastic portion of the cap and provided with a corresponding fulness to permit expansion, and elongated portions extending downwardly from each side, said portions being adapted to cross over the flap at the rear and to be brought upwardly along the side of the head and there fastened whereby they serve to secure the cap to the head and to hold the flap in place.

1,780,888. WHEEL PULLER. WALTER UEBELHOER, Buffalo, N. Y., assignor of one-half to Marvin Uebelhoer, Buffalo, N. Y. Filed Feb. 23, 1929. Serial No. 341,989. 9 Claims. (Cl. 29—86.)



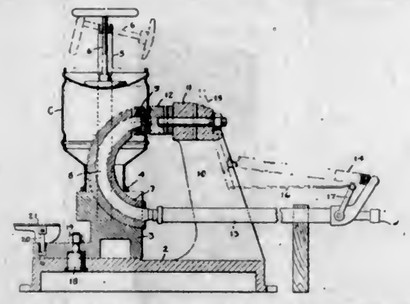
1. A wheel puller comprising a body portion having a cylindrical bore extending therethrough, said bore being enlarged adjacent one end of the body portion, a work engaging piston slidably mounted in the enlarged bore portion of the body, an impact piston slidably mounted in the bore in the opposite end of the body, said impact piston projecting beyond the body and having a striking surface on the end thereof, said pistons being spaced, and a body of incompressible fluid between the pistons, said impact piston being free to move longitudinally in one direction only under the influence of an impact force applied normally to said striking surface.

1,780,889. METAL-WORKING MACHINE. ROBERT S. BROWN, New Britain, Conn., assignor, by mesne assignments, to The New Britain-Gridley Machine Company, New Britain, Conn., a Corporation of Connecticut. Filed Jan. 14, 1928. Serial No. 246,843. 8 Claims. (Cl. 29—38.)



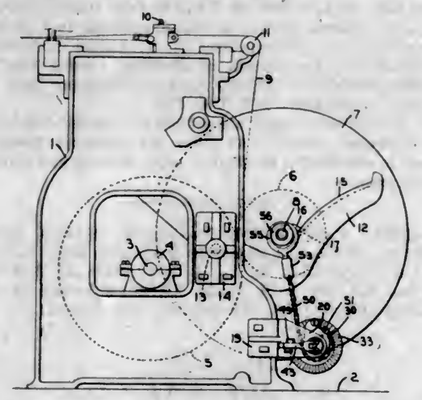
1. In a machine of the character indicated, a spindle carrier, a group of spindles carried by said spindle carrier and arranged equidistant from the axis of the carrier, work holding means for each spindle, means for indexing said spindle carrier including a gear on said carrier, means for holding said carrier in indexed position, a second work holding carrier, a plurality of work holding means on said second work holding carrier and arranged equidistant from the axis of said carrier, gearing connecting said first carrier with said second carrier for indexing said second carrier when said first carrier is indexed, said gearing being arranged to periodically bring work holding means in said second carrier opposite work holding means in said first carrier to permit work held in one carrier to be transferred to the other carrier.

1,780,890. APPARATUS FOR EMBOSSING CANS. WALTER H. HAUPT, Ludlow, Ky., assignor to Augustine Davis, Jr., Cincinnati, Ohio. Filed Apr. 22, 1930. Serial No. 446,259. 7 Claims. (Cl. 101—4.)



2. Can embossing means, comprising the combination of can receiving means, an outer die holder, a curved horn to enter through the mouth of a can, a curved ram guided in said horn, and an embossing die at the inner end of said ram, and hammer mechanism for applying a succession of blows to the outer end of said ram.

1,780,891. WARPER. HARRY A. DAVIS, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Jan. 3, 1929. Serial No. 330,096. 18 Claims. (Cl. 28—38.)

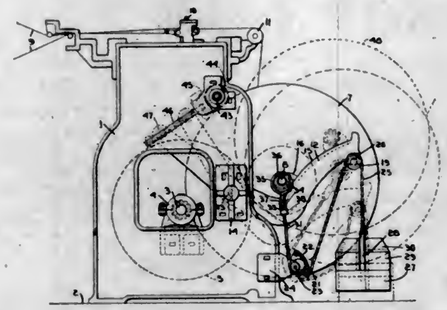


1. A warper comprising a driving drum, a warp beam supported to rest against the drum and to move away from the drum as the yarn is wound on the beam by the frictional engagement of the drum therewith, means acting to cause the resultant pressure on the drum from the beam due to weight to remain substantially constant as the yarn is wound on the beam, and means for presenting a gradually decreasing additional resistance to the movement of the beam as the yarn is wound on the beam, said two means acting in conjunction to effect a gradually decreasing total resultant pressure of the beam on the drum to compact and prevent bulging of the yarn mass as the yarn is wound on the beam and to prevent the beam from jumping when rotated at high speed.

1,780,892. WARPER. CLARE H. DRAPER and EARL H. TREVETT, Hopedale, Mass., assignors to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Dec. 5, 1928. Serial No. 323,842. 22 Claims. (Cl. 28—38.)

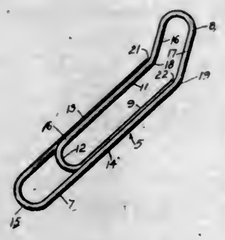
1. A warper comprising a driving drum, a warp beam having gudgeons, a pair of supporting arms extending forward of the drum, a pair of gudgeon blocks supporting

the beam gudgeons and movable along the arms as the yarn is wound on the beam by the frictional engagement of the drum therewith, the surfaces of the arms upon which the gudgeon blocks move extending forward and upward in a convex curve shaped to prevent increase in the resultant pressure on the driving drum due to the increase in the total weight of the beam and yarn as the yarn is wound



on the beam, means for applying additional weight to the gudgeons to prevent the beam from jumping when rotating at high speed and means for gradually decreasing the amount of said additional weight from the beginning of the winding operation thus to cause a gradual decrease in the resultant pressure of the beam on the drum from said additional weight to compact and prevent bulging of the yarn mass.

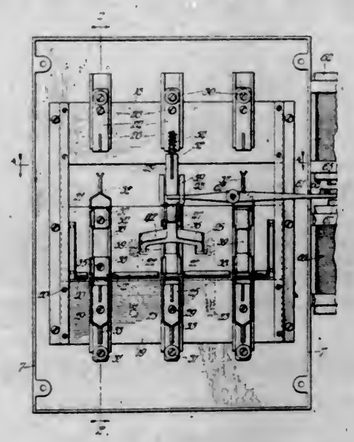
1,780,893. PAPER CLIP. GEORGE P. SCHMITT, Oakland, Calif. Filed Oct. 8, 1928. Serial No. 311,040. 1 Claim. (Cl. 24—261.)



A paper clip constructed of resilient wire to provide two substantially plane clamping members having base edges thereof defined at lines through the free ends of the wire and a substantially plane connecting loop having its plane intersecting at a sharp angle to the plane of a member at the base line thereof.

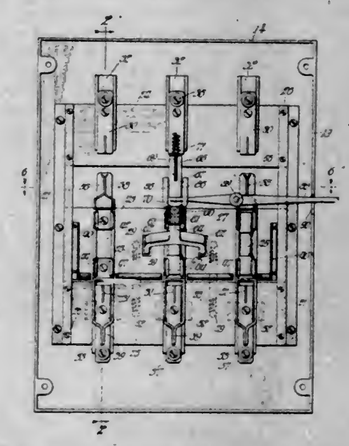
1,780,894. ELECTRIC SWITCH. LOUIS KELLNER, Brooklyn, N. Y., assignor to Jefferson Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 21, 1926. Serial No. 82,636. 12 Claims. (Cl. 200—3.)

1. A switch having, in combination, a plurality of fixed contacts, a member movable between said contacts, a plurality of movable contacts on said member adapted to be moved simultaneously into and out of engagement with said fixed contacts, said fixed and movable contacts constituting a circuit with two switch breaks, a fuse connected in said circuit between said breaks, spring means tending continuously to move said member to open said contacts, means for actuating said member to close said contacts, and spring pressed means adapted to be cammed by said



actuating means into locking engagement with said actuating means when the switch is closed, said actuating means being operable to disengage said locking means.

1,780,895. ELECTRIC SWITCH. LOUIS KELLNER, Brooklyn, N. Y., assignor to Jefferson Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 21, 1926. Serial No. 82,637. 10 Claims. (Cl. 200—3.)



1. A switch having, in combination, a support, a movable member, contacts on said support and on said movable member, said contacts being arranged to form a pair of parallel circuits, fuses in one of said circuits, said member having an open position in which both circuits are open, a closed position in which said unfused circuit is closed, and a closed position in which said unfused circuit is open and said fused circuit is closed, spring means tending to maintain said member in open position, an actuator for moving said member from open to closed position, and cam means controlling the movement of said actuator, said cam means limiting the movement of said member upon the first movement of said actuator to said intermediate position and necessitating a partial release and a second actuation of said actuator to move said member into its closed position.

GEORGIA INSTITUTE OF TECHNOLOGY

Patents Nos. 1,780,896 to 1,781,673

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office

Vol. 400—No. 2 TUESDAY, NOVEMBER 11, 1930 Price—$10 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscription, $10.00 per annum; including annual index, $11.50; single numbers, 25 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or concerning TRADE-MARKS, PRINTS, and LABELS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

CONTENTS

	Page
Issue of November 11, 1930	223
Notice—Number of Typewritten Briefs Required When Printing Has Been Dispensed With—Final Hearings	223
Destruction of Files—Abandoned Applications—Act of April 11, 1930	223
Adjudicated Patents	223
Applications Under Examination	224
Decisions of the U. S. Courts—	
In re Isberwood	225
In re Greenfield	226
Patent Suits	229
Disclaimers	230
Adverse Decisions in Interference	230
Changes in Classification	230
Trade-Marks Published (262 Applications)	231
Trade-Mark Registrations Granted	265
Trade-Mark Registrations Renewed	279
Labels	280
Prints	281
Reissues	283
Designs	286
Patents Granted	299

Issue of November 11, 1930

Trade-Marks	384—No.	277,146 to No.	277,529, inclusive.
T. M. Renewals	30		
Labels	28—No.	38,219 to No.	38,246, inclusive.
Prints	14—No.	12,794 to No.	12,807, inclusive.
Reissues	14—No.	17,856 to No.	17,869, inclusive.
Designs	65—No.	82,472 to No.	82,536, inclusive.
Patents	778—No.	1,780,896 to No.	1,781,673, inclusive.
Total	1,313		

NOTICE

NUMBER OF TYPEWRITTEN BRIEFS REQUIRED WHEN PRINTING HAS BEEN DISPENSED WITH

FINAL HEARINGS

BEFORE EXAMINERS OF INTERFERENCES, both patents and trade-marks:
1 original and 1 good carbon—
3 days before hearing.

ON APPEAL TO BOARD OF APPEALS:
1 original and 2 good carbons—
30 days for appellant and
10 days for appellee.

ON APPEAL TO THE COMMISSIONERS:
1 original and 1 good carbon—
30 days for appellant and
10 days for appellee.

ALL BRIEFS SHOULD BE SERVED

DESTRUCTION OF FILES

ABANDONED APPLICATIONS

ACT OF APRIL 11, 1930

DEPARTMENT OF COMMERCE,
U. S. PATENT OFFICE, *Washington, Oct. 20, 1930.*

(ORDER No. 3,166)

Section 6 of the act of April 11, 1930 (393 O. G. 1031–2) reads as follows:

The Commissioner of Patents is hereby authorized to annually destroy or otherwise dispose of all the files and papers belonging to all abandoned applications which have been on file for more than twenty years.

(1) If any patentee calls attention within 60 days from the date of this order to an abandoned application referred to in his patent, the file of that abandoned application will be retained in this Office.

(2) If any member of the public similarly calls attention to a patent having reference to such an abandoned application, the file of that application will be retained.

(3) Except as indicated in paragraphs (1) and (2), where any applicant or the assignee of any application wishes to obtain the file of an application which has been abandoned for more than 20 years, such application will be sent to him if request therefor is made within 60 days from date of this order, provided that if request is made by the applicant for such file and the record shows an assignment thereof, the request must be accompanied by the assent of the assignee.

Except as above indicated, steps will be taken to destroy the files of all abandoned applications which have been on file longer than the 20-year period fixed by statute.

THOMAS E. ROBERTSON,
Commissioner.

Adjudicated Patents

(D. C. N. Y.) Trussell patent, No. 1,025,170, for loose-leaf binder, claims 6, 7, and 8 *Held* valid and infringed. *Trussell Mfg. Co.* v. *Irving-Pitt Mfg. Co.*, 42 F. (2d) 750.

(C. C. A. Pa.) Benedictus patent, No. 1,182,739, for manufacture of strengthened glass, claim 12 *Held* valid and infringed. *Duplate Corporation* v. *Triplex Safety Glass Co.*, 42 F. (2d) 737 and 739.

(D. C. N. Y.) Johnston patent, No. 1,388,434, for method and apparatus for butt welding thin-gage tubing, claims 4, 5, 10, 16, 17, and 19 *Held* infringed. *Steel & Tubes* v. *S. Jackson Tube Co.*, 42 F. (2d) 760.

(D. C. N. Y.) Johnston patent, No. 1,435,806, for butt-welded thin-walled tubing, claims 3, 5, 6, and 9 *Held* infringed. *Id.*

(D. C. N. Y.) Belmont patent, No. 1,611,875, for welding apparatus, claims 1, 2, 3, and 4 *Held* valid and infringed. *Id.*

Condition of Applications Under Examination at Close of Business October 31, 1930

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 114,509; Trade-Mark Division, 1,478. Oldest new case, Dec. 31, 1929, oldest amended, Dec. 31, 1929. The dates given are 1930 except where † indicates 1929.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	Mar. 3	Mar. 7	1,207
126	2. HADEN, C. F., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Velocipedes.	Feb. 5	Feb. 5	1,853
331	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	Mar. 3	July 9	1,364
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	Mar. 24	Mar. 26	1,340
108*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	Mar. 4	Mar. 4	1,383
318	6. LEWERS, A. M., Carbon Chemistry	Jan. 7	Jan. 16	2,470
106	7. JARBOE, C. G., Optics; Photography	Jan. 15	Jan. 15	2,688
133	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Mar. 7	Mar. 3	1,775
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Apr. 7	Apr. 10	1,624
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Mar. 4	Mar. 5	1,604
148*	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Apr. 8	Apr. 18	973
380	12. HENRY, C. C., Machine Elements	Mar. 1	Mar. 1	1,643
154*	13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Mar. 7	Mar. 1	1,442
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	Feb. 20	Mar. 12	1,429
329	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Jan. 8	Jan. 8	3,083
242*	16. SPENCER, C. J., Telegraphy; Telephony	Mar. 3	Apr. 1	1,270
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Jan. 31	Feb. 1	1,719
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Mar. 15	Mar. 17	1,510
236	19. HULL, A. S. (Acting), Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Jan. 3	Jan. 27	2,650
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking	Feb. 17	Feb. 21	1,455
212	21. THOMPSON, T. J., Textiles; Cloth Finishing	Mar. 19	May 14	910
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Mar. 8	Apr. 1	1,581
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Jan. 10	Jan. 17	1,176
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Feb. 1	Feb. 24	1,154
202*	25. BLAKELEY, C. F., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Feb. 11	Feb. 14	1,707
228*	26. HODGES, J. S., Electricity, Generation; Motive Power	Feb. 6	Feb. 11	1,206
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Mar. 3	Feb. 28	1,463
225	28. BENSON, A. R., Internal-Combustion Engines	Jan. 25	Jan. 25	2,214
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	May 21	May 29	629
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Mar. 10	July 28	1,022
312	31. HOLMES, W. N., Distillation; Gas, Heating and Illuminating; Mineral Oils	Jan. 2	Jan. 2	2,909
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Apr. 21	Apr. 21	1,488
152	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	Mar. 26	Mar. 31	2,662
304	34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	Mar. 10	Apr. 8	1,000
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	May 26	June 11	1,432
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	Mar. 5	Mar. 6	2,368
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Feb. 4	Feb. 13	2,007
145	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Jan. 23	Jan. 23	1,237
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Feb. 12	Feb. 25	1,881
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	Jan. 17	Mar. 6	3,440
126	41. WHITNEY, M. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	Apr. 7	Apr. 10	1,118
223*	42. CUTTING, H. O., Electric Signaling	Feb. 18	Feb. 27	1,749
124*	43. NASH, P. N., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Feb. 17	Feb. 17	1,863
253	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	Feb. 1	Feb. 1	2,299
379	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	Jan. 16	Jan. 1	2,537
233	46. TAYLOR, M., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Mar. 3	Mar. 6	1,468
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	Jan. 23	Mar. 1	2,437
212*	48. ROEPKE, O. B., Electricity, General Applications	Feb. 1	Feb. 7	1,320
239	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	Apr. 14	May 16	1,614
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Jan. 4	Jan. 4	3,096
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Feb. 5	Feb. 5	2,504
144	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Mar. 17	Mar. 27	2,202
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	May 15	May 20	1,158
241	54. WAITE, W. E., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Jan. 13	Jan. 13	3,064
102	55. BOWEN, S. T., Bread, Pastry, and Confection Making; Cutlery	Aug. 2	Aug. 2	350
	Designs	Oct. 6	Oct. 17	275
309	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Feb. 8	Jan. 31	2,350
257*	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Feb. 18	Mar. 22	1,072
270*	58. DOWELL, E. F., Abrading; Typewriting	Jan. 11	Jan. 11	1,516
315	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Cement and Lime; Hides, Skins, and Leather; Fuel	Feb. 26	Feb. 26	1,932
213*	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	†Dec. 31	†Dec. 31	2,382
269	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Horology; Time-Controlling Apparatus.	Jan. 6	Jan. 13	2,758
245*	62 COCHRAN, W. W., Toys; Amusement Devices; Furniture; Baggage; Package and Article Carriers	Jan. 7	Jan. 7	2,850
300	63. WINKELSTEIN, A. H., Bleaching and Dyeing; Explosive, Pyrotechnic, and Match Compositions; Oils, Fats, and Glue; Preserving; Sugar, Starch, and Carbohydrates.	Jan. 31	Jan. 31	2,547
163	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND, Trade-Marks	Sept. 24	Oct. 13	1,236
	Labels and Prints	Sept. 24	Oct. 16	242

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE ISHERWOOD

No. 2,366. Decided May 28, 1930

[40 F.(2d) 987]

1. PATENTABILITY—SELECTION OF OLD FEATURES.

"It is true, as a matter of law, that if the applicant has taken one feature from one patented device, and another feature from another patented device, and combined them, and has produced no results other than were produced by the original devices in their individual operation, then he has invented nothing."

2. SAME—SAME—NEW AND USEFUL RESULT.

"The converse of this proposition, that where a new and useful result is accomplished by this combination, there may be invention."

3. SAME—VESSEL CONSTRUCTION.

Claims for an alleged improvement in the construction of vessels *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. George E. Tew and *Mr. William E. Seavert* for Isherwood.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

GRAHAM, *P. J.:*

This appeal involves the application of Joseph W. Isherwood, Serial No. 710,574, filed June 12, 1924, for patent on certain alleged improvements in methods of constructing floating vessels. Six claims were involved, all of which were rejected by the Examiner by reference to the following: (British) patent to Millar, 106,124 (6,558 of 1917); (British) patent to Millar, 210,867 of 1924; (British) patent to Lambie, 13,712 of 1908; (British) patent to Asakawa, 115,237 (6,825 of 1918); Isherwood, 1,029,546, June 11, 1912 (114–79).

This decision was affirmed by the Board of Appeals, the Board relying principally in its rejection upon the Lambie reference. All parties seem to agree that claim 4 is fairly typical of all the claims. It is as follows:

4. A vessel provided with a longitudinal consrucion in its deck and bottom portions and involving widely spaced transverse and closely spaced longitudinal members and said vessel provided in its side portions with a plurality of closely spaced and shallow transverse members, devoid of reinforcements some of which are in line with said widely spaced deck and bottom transverse members and all of said framing extending to the side or deck plating of the vessel.

Applicant's claim for a patent involves his method for the construction of vessels, in particular those used for carrying cargo in their holds. In brief, his construction consists of a number of transverse frames extending throughout the length of the vessel, which frames consist each of a bottom frame, a deck frame and "relatively shallow" side frames, so that these transverse frames, connected, completely encircle the interior space of the vessel. The applicant proposes to use more of these transverse frames than are ordinarily used in vessels having heavy transverse frames, and, in addition to the frames completely encircling the cargo space of the vessel, he proposes to insert additional side frames intermediate of the side frames connecting with the deck and bottom frames, which are fastened at top and bottom to the deck and bottom plates, or to longitudinal members extending through the vessel at the bilge.

The applicant uses no longitudinal side frames, and inserts, as longitudinal deck beams, a large number of comparatively small longitudinals. The theory of the applicant seems to be that by this method of construction he is able to get the same strength for the vessel, and to greatly increase the cargo space by the elimination of the large projecting beams which were the result of using the Isherwood system, as embodied in his Patent 1,029,546, dated June 11, 1912.

It is true there is a considerable departure in this application from the original Isherwood plan. The Patent Office tribunals suggest that the appellant has reverted to the original type in use before his Patent 1,029,546 was granted. Whether this be true or no, it is evident that the appellant, however excellent his construction may be, is anticipated by references which have been cited. The reference Millar 106,124, shows substantially the same construction, having comparatively shallow side beams, and with additional beams interposed between each transverse frame entirely surrounding the cargo space. Millar also shows a plurality of comparatively small deck longitudinals, and has no side longitudinals. In Millar's Patent 210,867, a similar construction appears, and while the drawings given show certain gussets which are not apparent in the appellant's application, Millar shows that these may be omitted.

We are unable to see, also, why the Lambie reference is not a complete anticipation of this application. Lambie shows shallow side transverse beams, plurality of deck longitudinals, and interposed shallow side beams.

It is contended by the appellant that the Patent Office has taken one feature from one reference, and another feature from another reference, combining them and thus attempted to justify a refusal of his application, and he insists that this cannot legally be done. While we are convinced this has not been done, it is true, as a matter of law, that if the applicant has taken one feature from one patented device, and another feature from another patented device, and combined them, and has produced no results other than were produced by the original devices in their individual operation, then he has invented nothing. *In re Vissering*, 57 App. D. C. 46, 356 O. G. 986, 16 F.(2d) 542; *Elite Mfg. Co.* v. *Ashland*, 235 Fed. 893; *Reflectolyte Co.* v. *Luminous Unit Co.*, 20 F. (2d) 607; *In re Bayer*, 17 C. C. P. A. ——, 35 F. (2d) 66, 390 O. G. 4. The converse of this proposition, that where a new and useful result is

accomplished by this combination, there may be invention, is stated in *In re Champeau*, 17 C. C. P. A. ——, 34 F.(2d) 1012, 388 O. G. 783 and in *In re Angert*, 17 C. C. P. A. ——, 34 F.(2d) 1014, 388 O. G. 782.

The decision of the Board of Appeals is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE GREENFIELD

No. 2,329. Decided May 28, 1930.

[40 F.(2d) 775]

1. PRACTICE—CLAIMS COPIED FROM A PATENT.
   Where an applicant copied claims from a patent *Held* that it was not contrary to any rule of law for the Patent Office to hold such claims unpatentable.
2. PATENTABILITY—REGULATION OF COMBUSTION OF FUEL.
   Certain claims for the regulation of combustion of fuel in furnaces *Held* unpatentable over the prior art.
3. APPEAL TO BOARD OF APPEALS—REJECTION ON NEW REFERENCES—CONFUSION IN THE RECORD.
   Where the Board of Appeals rejected a certain claim on a reference of record not theretofore cited against it and on petition for rehearing based its rejection on language of the Examiner with reference to other claims *Held* that the confusion was sufficient to entitle the applicant to have this claim reexamined and reconsidered by the Patent Office.

APPEAL from the Patent Office. Modified and remanded.

Mr. Edmund G. Borden and *Mr. Kenneth I. White* for Greenfield.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

GARRETT, *J.*:

Nine claims of appellant's application are before us on appeal from a decision of the Board of Appeals of the Patent Office sustaining the decision of the Examiner rejecting them, to wit, Nos. 13, 47–50 and 53–56.

First and last during the pendency of the matter in the Patent Office a large number of claims were presented, some of which were allowed, others withdrawn and others rejected which were not appealed here.

The application relates to "certain new and useful improvements in regulation of combustion of fuel in furnaces", or, to be more specific, to a system for feeding oil to boiler furnaces in an oil burning plant and for controlling combustion of the oil.

The Examiner rejected claim 13, citing as reference a prior patent to applicant Greenfield, No. 1,423,764, of July 25, 1922. This was affirmed by the Board.

As to claims 47–50 and 53–56, the Examiner held that applicant was not entitled to make them. The Board reversed this holding but rejected the claims on prior art, citing a number of patents which will be hereinafter more specifically referred to.

Claim 13 reads as follows:

13. In a fuel-oil feeding device for a boiler furnace, the combination with a burner through which fuel is supplied to the furnace for generating steam, of an oil stand pipe extending upwardly from the burner, means for maintaining a head of oil in said stand pipe over said burner and means for increasing the head of oil in the stand-pipe in proportional relation with the fall of steam pressure in the boiler, said means including a chamber containing oil under a constant head, a conduit leading from said chamber to the stand-pipe, the outlet end of said conduit being in substantially the same horizontal plane as the upper oil level in said chamber, and means for exerting a boiler-pressure-controlled pressure on the oil in said chamber to cause the oil to flow to the stand-pipe.

Appellant here insists that the rejection of the claim upon his prior patent was error because, among other reasons—

there is no apparatus element shown or described in the Greenfield patent which is in any way the equivalent of, or performs the same functions as the vent (boiler governor) valve 112 of the apparatus of the present invention.

The vent valve in the claim, as we understand it, is claimed to maintain an inverse proportional relation between the head of oil in the stand pipe over the burner and the boiler steam pressure, and appellant insists that the patent "contemplates the exact opposite of this procedure, i. e. it contemplates maintaining a direct proportional relation between the supply of oil to the burner and the boiler steam pressure", and he quotes from the patent specification in support of the contention.

The Solicitor for the Patent Office insists that the language of the specification upon which appellant relies has reference to the steam pressure in the feed tank and not the pressure in the boiler; that as the "boiler pressure falls * * * the pressure in the feed tank builds up," which is the operation described in claim 13, and, therefore, insists on the applicability of the reference.

Another feature of claim 13 which is urged by appellant as constituting invention over his prior patent is that the outlet end of the conduit leading from the oil contained in the chamber to the standpipe is in substantially the same horizontal plane as the upper oil level in the chamber, whereas this condition does not exist in his patent. The Board found this difference to exist but held that the disclosure of the application on this feature did not constitute invention.

We are in doubt as to whether appellant has succeeded in overcoming the presumption of correctness attaching to the concurring findings of the Patent Office tribunals relative to this claim and, in view of the fact that we deem it proper to remand this case for a restudy of claim 56, for reasons to be later discussed, we think it not improper to refrain from a definite finding upon it, and to remand claim 13 also for reconsideration by the Patent Office experts.

Claim 49 appears to be illustrative of claims 47 to 50, inclusive. It reads:

In a furnace, means for supplying fluid fuel to the furnace, a source of atomizing fluid under variable pressure, means for supplying the atomizing fluids at a substantially constant pressure, means for controlling the rate of supply of atomizing fluid in accordance with the rate of supply of fluid fuel, and means for varying the ratio of the rate of supply of atomizing fluid to the rate of supply of fluid fuel.

Claims 47–50 are stated to have been copied by appellant, during the pendency of his application, from a patent to McLean, No. 1,610,303, with a request that applicant be granted an interference on them.

They were rejected by the Examiner, first, in a decision of March 22, 1927, "as being for matter not disclosed," and with a further statement citing *Ferguson*. In a later decision of April 15, 1927, by the same Examiner it was stated that "claims * * * 47 to 50 * * * are rejected on the art and for the reasons of record" and, later in the same opinion, after saying that each of the claims "recites the atomizing fluid as controlled 'in accordance with variations in the rate of fuel supply'," the Examiner continued:

Moreover if the quoted expression be given the meaning contended for by applicant claims 47 to 50 and 52 to 54 would clearly be unpatentable over Doble or Bryan.

Following the appeal to the Board the Examiner in his statement of June 6, 1927, again referred to the reason for their rejection and again mentioned Doble and Bryan.

The Board of Appeals, however, seems to have proceeded upon the theory that the Examiner's decision as to these claims rested upon the proposition that "applicant cannot make claims 47–50," and reversed this holding, but followed the reversal with a decision of rejection in line with its own prior statement:

We find no good grounds why the claims 47–50 should not be rejected on Doble, notwithstanding Doble does not disclose the use of steam as an atomizing fluid. The use of steam as atomizing fluid is common and an example of such use is disclosed in the patent to Bryan of record.

The Doble patent is No. 1,279,874, issued September 24, 1918; that to Bryan, No. 1,316,880, issued September 23, 1919.

Appellant in his brief devotes much space to an analysis of the Doble patent, and a comparison of the parts thereof with his own claims in the effort to show that it is not an anticipation. It appears to be his idea that the Board rejected claims 47–50 upon Doble alone. It is true that there appears in the decision of the Board, following a statement relative to the Bryan specification, a sentence saying:

We do not regard Bryan as an anticipation of the claims against which it was cited by the Examiner.

But there will be noted what was said by the Board concerning the Bryan patent, supra.

We think that whether regarded technically as an anticipation, or otherwise, the Bryan patent did regularly become a reference, and we discern no error in the rejection based upon Doble in view of Bryan.

[1] The fifth assignment of error is:

That since rejected claims 47–50 were copied from McLean Patent 1,610,303 the Board's action in upholding the rejection of these claims on the Doble patent is contrary to the rule of law established and cited in the decisions of 32 App. D. C. 345, 200 O. G. 582, and 54 App. D. C. 280.

In its opinion the Board said:

We find upon inspection of the file of the McLean patent that claims 2, 6, 7 and 9 were allowed over the prior art, not because of any limited interpretation given to the words 'means for controlling the rate of supply of atomizing fluid in accordance with the rate of supply of fluid fuel,' but because of the limitation 'constant pressure' in the words 'means for supplying the atomizing fluid at a substantially constant pressure,' see discussion of these claims in applicant's remarks, page 3, filed with the amendment of February 9, 1926.

The cases cited in the assignment of error have been examined and it appears that the Court of Appeals of the District of Columbia did not reverse the Patent Office in either of them, because upon examination the Court found no error in the office holding that the claims involved were not patentable.

The situation here seems to be analogous to that of those cases and we are of opinion that the assignment of error on this point is not well taken.

[2] Claim 53 is stated to be typical of the group embraced in numbers 53 to 56, inclusive:

53. In a steam boiler furnace, means for developing a motive pressure uniformly lower than and varying in inverse proportional relation with variations in the boiler steam pressure for controlling the supply of fluid fuel to the furnace, means for atomizing the fluid fuel with a fluid, means for controlling the rate of supply of atomizing fluid in accordance with variations in the rate of supply of fluid fuel, and means for varying the ratio of rate of supply of atomizing agent to the rate of supply of fluid fuel.

These claims were rejected by the Board as being anticipated by patent to Schroeder, No. 784,436, March 7, 1905, or Strait, No. 760,818, May 24, 1904.

The opinion of the Board of Appeals, as well as the different decisions of the Examiners, give an explanation of the operations of the claimed mechanism which we do not deem it necessary to here restate. Appellant's analysis and comparison of the respective operations of his device and those of the references do not convince us that error is shown in the finding of the Board.

[3] Appellant makes an insistence relative to claim 56 which involves the procedure and rules of the Patent Office. This is stated in his seventh assignments of error. It is contended that the Examiner in his rejection of claim 56 did not cite the Strait and Schroeder patents; that the Board did reject the claim upon these references, and that there was not a compliance with Patent Office Rule 139.

The claim which became No. 56 seems to have been added to the application on May 3, 1927, by amendment, after there had been a number of decisions by examiners upon other claims. It reads as follows:

56. The method of operating a furnace for which fuel is atomized by a fluid which consists in supplying the fuel at a rate which varies in accordance with the heat demand on the furnace, supplying the atomizing fluid at a constant pressure, and controlling the rate of supply thereof to the furnace in accordance with the rate of fuel supply.

In a decision of an Acting Examiner of May 7, 1927, it is said:

Claim 56 does not differ materially from claims 47 to 50 and is rejected for the same reason as these claims and the rejection made final.

In the Examiner's statement of June 6, 1927, following the appeal to the Board, no reference was made to claim 56, but on November 11, 1927, he made a supplemental statement in which he said:

The rejection of claim 56 is based on the same reasons as that of claims 47 to 50.

It will be remembered that 47–50 were the claims copied from the McLean patent and we have heretofore quoted what seems to be the material portions of the decisions concerning them.

The Examiners seem to have classified claim 56 with claims 47–50 and to have rejected it for the reasons underlying their rejection, but in the decision of the Board 56 seems to have been grouped

with 53, 54 and 55 and the group is referred to throughout that decision as "claims 53–56."

Claims 53, 54 and 55 seem to have been first brought into the application by an amendment of March 17, 1927. The opinion of the Examiner of March 22, 1927, says: "* * * 52 to 54 are rejected as being for matter not disclosed," and "* * * further rejected on Strait or Schroeder." Also, as has been quoted, supra, this opinion mentions 52 and 54 along with 47 to 50 as "clearly unpatentable over Doble or Bryan." The first mention we find of 55 in any opinion is in that of an Acting Examiner under date of May 7, 1927, wherein it is said, "* * * and 53 to 55 are again and finally rejected on the art and for the reasons of record."

The Examiner's statement after the appeal to the Board says:

> Claims 53 and 54 are similar to claims 47 to 40, are thought to be similarly inaccurate and similarly unpatentable over Doble. Claims 53 to 55 also stand rejected on Strait or Schroeder.

The Board's opinion says:

> We think claims 53, 56 can be made by the applicant, but that they are fully anticipated by the patents to Schroeder or Strait.
>
> The decision of the Examiner holding that applicant cannot make claims * * * 53–56 is reversed.
>
> The decision of the Examiner rejecting claims * * * and 53–56 on prior art is affirmed. (Italics ours.)

It appears, therefore, that the Examiner did not, in any decision, specifically cite Strait or Schroeder against claim 56 but rather held it unpatentable for matter not disclosed, or else as being anticipated by Doble in view of Bryan, while the Board held it, along with 53, 54 and 55, "anticipated by Schroeder or Strait".

The material portion of Rule 139 reads as follows:

> The Board of Appeals in its decision shall affirm or reverse the decision of the Primary Examiner only on points on which appeals shall have been taken (see rule 133). Should it discover any grounds not involved in the appeal for refusing Letters Patent in the form claimed or in any other form, it shall include in its decision a statement to that effect and its reasons for so holding.
>
> This statement of the Board of Appeals, if adverse to the applicant's right to a patent, will reopen the case for amendment or showing of facts or both before the Primary Examiner responsive thereto—
>
> The applicant may waive the right to further prosecution before the Primary Examiner and have the case reconsidered by the Board of Appeals upon the same record. Where request for such reconsiderations is made the Board of Appeals shall render a new decision which shall include all grounds upon which a patent is refused.

The decision of the Board from which we have quoted was rendered October 10, 1928. On October 24, 1928, applicant filed a request for rehearing in which he urged relative to that tribunal's rejection of claim 56:

> That such decision constitutes in effect a final rejection of this claim by the board on each of two references, neither of which has ever been previously cited against this claim by any Patent Office tribunal.

From an examination of this petition for reconsideration, we take it to have been a waiver by applicant of any right he had to further prosecution before the Primary Examiner. It would seem, in view of the record as we have recited it, that under the rule he would have been entitled to such a review, but the rule also provides that an applicant may waive such right and have reconsideration by the Board itself, and this obviously is what applicant did.

It further appears that the Board complied with that part of the rule requiring a new decision. The second decision appears under date of November 6, 1928. In it the Board said:

> This is a petition for reconsideration and rehearing of appeal decided October 10, 1928.
>
> * * * * * * *
>
> In rejecting claims 53–56, as fully anticipated by the Schroeder or Strait references, the Board concurred in the rejection of these claims by the Examiner's statement wherein the Examiner said: "Each of these patents shows a constant level fuel chamber, and means for exerting on the fuel therein a steam pressure inversely proportional to the boiler pressure. This pressure is effective to feed both the oil and steam to the burner, so that the steam may be said to be fed 'in accordance' with the rate of oil feed, in exactly the same sense as in applicant's device.

In so far as the matter of reconsideration by the Board is concerned, we should feel that the fact that, in reconsidering the case there was not an oral rehearing, does not, of itself, sustain the contention of appellant that the rule was not complied with. When an applicant waives the right to have the claim referred back to the Examiner and accepts reconsideration by the Board, the rule does not make a rehearing mandatory; it only requires reconsideration *"upon the same record"* and the Board may exercise its sound discretion as to the procedure it will follow in this reconsideration, but in the instant controversy, the *decision* of the Board upon reconsideration does not seem to have cured a defect in its first decision relative to claim 56.

In its first decision claim 56 was rejected upon a reference not theretofore cited. This would have entitled applicant to have the claim again considered by the Examiner. He waived this right by filing a petition for rehearing before the Board itself. In its reconsideration the Board adhered to the reference but in stating its reasons quoted language of the Examiner which appears to have been used by the latter as applicable to certain other claims, but not as to claim 56, and this was all that the Board gave as a reason. In its original decision it had given no reason but merely cited a reference which was new to the proceeding so far as claim 56 was involved.

In view of this confused condition we are of the opinion that applicant is entitled to have claim 56 reexamined and reconsidered by the experts of the Patent Office. The statements in the respective decisions concerning it are extremely meager, and since this court is not trained in these technical matters, and is expected to pass primarily upon questions of law only, we should not feel justified now in reversing the Board and directing a patent to issue based upon this claim, but a sufficient doubt has been created as that we do feel justified in remanding it for further study.

As heretofore indicated, we also deem it proper to remand claim 13 for restudy.

Therefore the decision of the Board is affirmed as to claims Nos. 47, 48, 49, 50, 53, 54, and 55, and reversed as to Nos. 13 and 56, this reversal being merely to the end that these latter claims be remanded for a reconsideration of them de novo, and such action upon them as may appear proper in the light of their restudy.

Modified and remanded.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

970,812, A. C. Graham, Shoe guide for well casings, filed Aug. 27, 1930, D. C., S. D. Calif. (Los Angeles), Doc. 4146, *A. C. Graham* v. *Baash-Ross Tool Co.*

1,066,161, H. B. Stilz, Oil burner, filed June 19, 1930, D. C., E. D. Pa., Doc. 6083, *H. B. Stilz* v. *Babcock & Wilcox Co.*

1,182,739, E. Benedictus, Manufacture of strengthened glass, filed July 31, 1930, D. C., E. D. Pa., Doc. 6163, *Triplex Safety Glass Co.* v. *L. J. Kolb* (*Safetee Glass Co.*).

1,201,414. (See 1,061,755.)

1,212,840, F. J. Straub, Building block and method of making, filed June 11, 1930, D. C., E. D. Pa., Doc. 6059, *Crozier-Straub, Inc., et al.* v. *J. Sullivan.*

1,302,205, A. Pagliuca, Chocolate-coating machine, filed Aug. 21, 1930, D. C. Mass., Doc. E 3318, *National Equipment Co.* v. *J. W. Greer Co.*

1,307,734, A. V. Guliborg, Lubricating means; 1,475,980, O. Zerk, Lubricating apparatus; Re. 14,667, F. D. Winkley, Lubricating system, appeal filed Aug. 27, 1930, C. C. A., 2d Cir., Doc. —, *The Bassick Mfg. Co.* v. *Adams Grease Gun Corp.*

1,324,293, E. K. Baker, Semiwood wheel for use with pneumatic tires; 1,399,719, C. G. Hawley, Wheel for automobiles, D. C., E. D. Mich., S. Div., Doc. 3596, *Baker Wheel & Rim Co.* v. *Motor Wheel Corp.* Dismissed Sept. 2, 1930.

1,353,197, J. F. Werder, Grinding compound, filed Aug. 19, 1930, D. C. Del., Doc. E 815, *The Zip Mfg. Co.* v. *The Pep Mfg. Co.*

1,396,070, Shoup & Oliver, Paper-feed device for autographic registers, filed Sept. 2, 1930, D. C. Mich. (Grand Rapids), Doc. 2380, *Autographic Register Co.* v. *The Sturgis Register Co.*

1,399,719. (See 1,324,293.)

1,404,369, F. C. Chapman, Dehydrater, D. C., N. D. Calif., N. Div., Doc. E 489, *Chapman Dehydrater Co.* v. *A. P. Leach, et al.* (*Capay Irrigated Orchards Co.*). Dismissed Aug. 26, 1930. Doc. 283, *Chapman Dehydrater Co.* v. *Capay Irrigated Orchards Co.* Dismissed Aug. 26, 1930.

1,414,387, B. Wexler, Dumb-waiter door, filed Aug. 5, 1930, D. C., E. D. Pa., Doc. 6169, *The Peelle Co.* v. *W. H. Stevens.*

1,454,837, B. W. Smith, Safety paper and method of making same, filed Aug. 27, 1930, D. C., S. D. N. Y., Doc. E 55/119, *The Todd Co., Inc.*, v. *American Bank Stationery Co. et al.*

1,467,556, A. Nagel, Camera case, filed Aug. 20, 1930, D. C., S. D. N. Y., Doc. E 55/42, *A. Nagel et al.* v. *D. H. Zell, Inc.* Doc. E 55/43, *A. Nagel et al.* v. *Girey, Inc.*

1,475,980. (See 1,307,734.)

1,513,398, J. P. King, Braiding machine, filed Aug. 21, 1930, D. C., R. I., Doc. 350, *Ideal Braiding Machine Co.* v. *Providence Braid Co.*

1,518,067, W. W. Hicks, Electric heater, D. C., N. D. Calif. (San Francisco), Doc. 2186–K, *Westx National Co.* v. *Sandoval Sales Co. et al.* Decree for plaintiff Aug. 7, 1930.

1,521,941, G. B. Graf, Stop signal, D. C., W. D. Okla. (Oklahoma City), Doc. E 697, *G. B. Graf* v. *Universal Traffic Control System of Oklahoma City.* Decree for plaintiff Mar. 24, 1926.

1,522,241, J. F. Hennessey, Mirror clock, filed Sept. 2, 1920, D. C., E. D. Mich., S. Div., Doc. 4376, *Phinney-Walker Co., Inc.*, v. *L. Sandoz-Vuille, Inc., et al.*

1,534,478, W. J. Wiswall, Manifolding book, filed Aug. 30, 1930, D. C., S. D. Ohio, W. Div., Doc. E 701, *American Sales Book Co., Ltd.*, v. *The Miami Systems Corp.*

1,550,332, P. A. Bancel, Surface condenser, filed July 11, 1930, D. C., E. D. Pa., Doc. 6125, *Ingersoll-Rand Co.* v. *Westinghouse Electric & Mfg. Co.*

1,562,787, I. M. Petersime, Incubator, appeal filed Aug. 23, 1930, C. C. A., 10th Cir., Doc. 333, *J. L. Robbins* (*Robbins Incubator Mfg. Co.*) v. *I. M. Petersime & Son.*

1,564,378, H. Stein et al., Bleached and dyed furs; 1,573,200, same, Process of bleaching and dyeing furs, filed Aug. 22, 1930, D. C., S. D. N. Y., Doc. E 55/77, *Steinfur Patents Corp.* v. *Brickner & Bernfeld, Inc. et al.*

1,571,916. (See Re. 16,433.) 1,573,200. (See 1,564,378.)

1,580,651, E. V. Daily, Radiator, C. C. A., 3d Cir., Doc. 4309, *Automatic Gas-Steam Radiator Co.* v. *J. B. Clow & Sons.* Decree affirmed Sept. 4, 1930.

1,586,367, F. E. Johnson, Electric-lamp socket, appeal filed Aug. 23, 1930, C. C. A. 2d Cir., Doc. —, *J. I. Paulding* v. *L. Leviton.*

1,623,564, P. Theurich, Advertising panel or decorative wall covering, D. C., S. D. N. Y., Doc. E 43/315, *Wezel & Naumann Aktiengesellschaft* v. *A. Lounis, Inc., et al.* Decree for plaintiff Aug. 22, 1930. Doc. E 43/353, *Wezel & Naumann Aktiengesellschaft* v. *Morgan Lithograph Co.* Decree as above.

1,661,755, B. F. Hubbell, Lubricating apparatus; 1,201,414, F. D. Winkley, Lubricating system, filed Aug. 20, 1930, D. C., E. D. Mich., S. Div., Doc. 4360, *The Alemite Corp.* v. *The Lubricating Equipment Co.*

1,686,549, A. W. Burks, Pump; Re. 16,074, A. Wahle, Rotary pump, D. C. Del., Doc. E 725, *A. W. Burks* v. *Westco Pump Co.* Claims 1 to 22, inclusive, of 1,686,549 held valid and infringed, counterclaim dismissed July 29, 1930.

1,699,459, G. C. Ulrich, Sprinkling can, D. C., W. D. N. Y., Doc. 1558–I, *The Republic Metalware Co., Inc.*, v. *Weed & Co., Inc.* Dismissed for want of equity Aug. 30, 1930.

1,709,543, J. N. Royal, Composite figure construction; Des. 74,122, same, Box, D. C. Del., Doc. E 751, *F. N. Burt Co., Ltd.*, v. *Central Fibre Co., Inc.* Consent decree dismissing bill without prejudice Aug. 14, 1930.

1,719,704, M. P. Katzander, Chair construction, filed June 24, 1930, D. C., E. D. Pa., Doc. 6099, *M. Katzander* v. *A. I. Pasternack et al.* (*Grand Furniture Co.*).

1,725,433, F. K. Vreeland, Band-receiving system; 1,730,987, same, Variable band amplifier; 1,749,930, same, Variable circuit elements for radio receiving sets, filed Aug. 12, 1930, D. C. Del., Doc. E 814, *Vreeland Corp.* v. *Grigsby-Grunow Co. et al.*

1,730,199, H. A. Farrand, Coiling means for concavo-convex springs, filed Aug. 4, 1930, D. C. Del., Doc. E 818, *H. A. Farrand, Inc.*, v. *Mayhew Steel Products, Inc.*

1,730,987. (See 1,725,433.)

1,747,822, 1,747,823, R. D. Foltz, Furnace construction, filed Aug. 28, 1930, D. C., W. D. Wis. (Madison), Doc. E 1583, *M. H. Detrick Co.* v. *Wisconsin Power & Light Co.*

1,747,823. (See 1,747,822.) 1,749,930. (See 1,725,433.)

1,754,486, H. C. Schott, Waffle iron; 1,764,908, H. M. Strauss, same, filed Aug. 28, 1930, D. C., W. D. N. Y., Doc. 345, *Robeson-Rochester Corp.* v. *Samson-United Corp.*

1,754,814, H. L. Budd, Frame clip, D. C., S. D. N. Y., Doc. E 54/49, *Friedman Silver Co., Inc.*, v. *I. Mershon et al.* (*Globe Silver Co.*). Consent decree for plaintiff Aug. 29, 1930.

1,764,908. (See 1,754,486.) Re. 14,667. (See 1,307,734.)

Re. 16,074, A. Wahle, Rotary pump, filed Aug. 20, 1930, D. C., N. D. Ohio, W. Div., Doc. 3455, *Westco-Chippewa Pump Co.* v. *The Auto-Prime Pump Co.*

Re. 16,074. (See 1,686,549.)

Re. 16,433, L. J. Grubman, Eye mounting for dolls; 1,571,916, same, Method and means for applying eye mountings in doll heads, appeal filed Aug. 29, 1930, C. C. A., 2d Cir., Doc. —, *Grubman Engineering & Mfg. Co.* v. *E. Goldberger.*

Re. 17,137, J. Eisenmann, Building block and construction, filed Aug. 5, 1930, D. C., N. D. W. Va. (Wheeling), Doc. 153, *The Manell Building Block & Tile Co.* v. *Suburban Brick Co. et al.*

Re. 17,329, J. Schmidt, Woodworking machine, filed July 11, 1930, D. C., E. D. Pa., Doc. 6123, *J. Schmidt* v. *Cresson-Morris Co.*

Re. 17,416, O. Aram, Stoker construction, filed July 21, 1930, D. C., E. D. Pa., Doc. 6157, *Westinghouse Electric & Mfg. Co.* v. *American Engineering Co.*

Re. 17,605, H. F. Schecker, Electrical condenser and method for making same, filed Aug. 25, 1930, D. C., S. D. N. Y., Doc. E 55/91, *Aerovox Wireless Corp.* v. *Polyment Mfg. Corp.*

Des. 74,122. (See 1,709,543.)

Des. 76,612, A. Von Frankenberg, Lamp, D. C., S. D. N. Y., Doc. E 49/316, *Frankart, Inc.*, v. *Aljac Lighting Fixture Co., Inc.* Consent decree for plaintiff (notice Aug. 26, 1930).

Disclaimers

Trade-Mark 206,421.—*The Kroger Grocery & Baking Company*, Cincinnati, Ohio. CANNED FRUITS—NAMELY, APRICOTS, PEACHES, AND CHERRIES; CANNED VEGETABLES—NAMELY, TOMATOES, PEAS, CORN, AND STRING BEANS; CANNED FISH—NAMELY, SALMON; TEA. Trade-mark certificate of registration dated December 1, 1925. Disclaimer filed October 23, 1930, by the registrant.

Having abandoned the use of "Clifton" as a trade-mark for salmon hereby disclaims any right to its use for said item of those enumerated in said registration, but without prejudice to its rights in respect to its use as a trade-mark for the other items named therein, or in any way waiving or modifying said rights.

1,725,304.—*Millard J. Roberts*, Buffalo, N. Y. GAS BURNER AND THE LIKE. Patent dated August 20, 1929. Disclaimer filed October 15, 1930, by the assignee, *Roberts-Gordon Appliance Corporation*.

Hereby enters the following disclaimer in relation to certain of said claims as follows:

Your petitioner disclaims from the scope of claims 1, 6, and 11 any overlapping of adjacent elements, in which an element adjacent its upper end contacts with or is approximately in contact with the fire box at or adjacent to both side edges of said element, as shown in the patent to Ebinger No. 753,250, of March 1, 1904.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,703,131, H. R. Woodrow, Electrical distribution system, decided October 22, 1930, claim 2.

Pat. 1,712,855, M. A. Thorne, Brake, decided September 30, 1930, claims 1, 2, 3, 4, and 7.

Changes in Classification

Order No. 3,168, October 23, 1930, directs:

In *class 178,—Telegraphy* (Division 16), establish the following subclasses and definitions:

Systems
Automatic
Printing
4.1 Remote control,
Multiplex
Rotary distributer
Synchronizers
53.1 Start stop,
69.5 Synchronizers,
69.6 Call.

4.1. SYSTEMS, AUTOMATIC, PRINTING, REMOTE CONTROL. Systems coming under subclass 4 of remote control for starting and/or stopping printer motors at called or calling stations or both by either manually or automatically transmitted impulses or code.
Search this class, subclass 53.1.

53.1. SYSTEMS, MULTIPLEX, ROTARY DISTRIBUTER, SYNCHRONIZERS, START STOP. The means for synchronizing operates to start the distributers simultaneously. The distributers (at both ends) usually after starting rotate one complete revolution and one or both are stopped at the initial point.
Search this class, subclass 4.1.

69.5. SYSTEMS, SYNCHRONIZERS. Methods and devices for synchronizing the operation of the receiving and sending mechanisms coming under class 178. This subclass includes cross-references of patents classified in systems but also showing, describing, and claiming the synchronizer as well as the system in which it is used, except multiplex rotary distributing systems.
Search this class, subclasses 4.1, 12, 41, 53, and 53.1.
Search Classes—
172, ELECTRICITY, MOTIVE POWER, subclass 293, Transmission of power, Synchronization, Rotary element, for electrical synchronizing systems of general application.
175, ELECTRICITY, GENERAL APPLICATIONS, subclass 355, Systems, Speed-controlled, for electrical systems of general application responsive to speed.

69.6. SYSTEMS, CALL. Means for signaling a remote operator, who, in response to such signaling, connects the recorder. This subclass includes cross-references of patents directed to other systems but including such means.

The patents contained in these subclasses have been taken for the most part from class 178, Telegraphy, subclasses 2, Systems, and 53, Systems, Multiplex, Rotary distributer, Synchronizers.

In *class 178,—Telegraphy* (Division 16), add the following note to the main class definition:

Note.—Inventions relating to television and picture transmission will be found for the most part in this class, subclasses 5–14 and 69.5. For photo-electric cells, see class 250, RADIANT ENERGY, subclass 27.5, Teledynamic, Apparatus, Receivers, Electrodynamic, Gaseous element, Tubes. For photo-resistive (selenium) cells, see class 202, RESISTANCES AND RHEOSTATS, subclass 63, Resistance elements. For electro-optical cells, see class 136, BATTERIES, subclass 89, Primary, Electrooptical. For receiver (neon) lamps see class 176, ELECTRIC LAMPS, principally subclass 122, Gas and vapor. For light valves, see class 88, OPTICS, subclass 61, Light valves, and for amplifiers, see class 179, TELEPHONY, subclass 171, Relays.

In *class 179,—Telephony* (Division 16), add the following note to the main class definition:

Note.—Inventions relating to the loud-speaker art will be found for the most part in this class, subclasses 108–120. The acoustic features are in class 181, ACOUSTICS, subclasses 27, Megaphones, 31, Diaphragms and mountings, and 32, Diaphragms, and the magnetic features of general utility are in class 175, ELECTRICITY, GENERAL APPLICATIONS. Systems including circuits of loud-speakers are in this class (179), subclasses 1 and 100.1 and the subclasses indented thereunder.

TRADE-MARKS

OFFICIAL GAZETTE, NOVEMBER 11, 1930

[VOL. 400. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 298,776. AMERICAN CYANAMID COMPANY, New York, N. Y. Filed Apr. 14, 1930.



Applicant disclaims all the wording appearing on the drawing except "Hacco" apart from the remainder of the mark as shown.

For Stable Bedding for Domestic Animals, Poultry Litter or Bedding for Domesticated Fowl, Soil Conditioner in Garden Cultivating and Seed Growing; Packing Material for Shipping Shrubs, Plants, Fruits, and Vegetables, Insulating the Walls of Houses and Barns, and Packing Between Partitions of Building Walls.

Claims use since Feb. 17, 1930.

Ser. No. 298,777. AMERICAN CYANAMID COMPANY, New York, N. Y. Filed Apr. 14, 1930.



Applicant disclaims all wording appearing in the drawing, except "Hacco" apart from the remainder of the mark as shown.

For Stable Bedding for Domestic Animals, Poultry Litter or Bedding for Domesticated Fowl, Soil Conditioner in Garden Cultivating and Seed Growing; Packing Material for Shipping Shrubs, Plants, Fruits, and Vegetables, Insulating the Walls of Houses and Barns, and Packing Between Partitions of Building Walls.

Claims use since Mar. 5, 1930.

Ser. No. 298,778. AMERICAN CYANAMID COMPANY, New York, N. Y. Filed Apr. 14, 1930.

MADE IN GERMANY
HACCO
TRADE MARK
PEAT MOSS
FINE GRANULATED FINE

Applicant disclaims all wording on the drawing, except "Hacco" apart from the remainder of the mark as shown.

For Stable Bedding for Domestic Animals, Poultry Litter or Bedding for Domesticated Fowl, Soil Conditioner in Garden Cultivating and Seed Growing; Packing Material for Shipping Shrubs, Plants, Fruits, and Vegetables, Insulating the Walls of Houses and Barns, and Packing Between Partitions of Building Walls.

Claims use since Mar. 8, 1930.

Ser. No. 304,999. DU PONT VISCOLOID COMPANY, New York, N. Y. Filed Aug. 25, 1930.

Plastacele

For Thermoplastic Materials Which Can be Pressed or Molded Under the Influence of Heat and Will Hold This Shape After Being Cooled, the Chief Ingredient in Said Material Being Cellulose Acetate.

Claims use since Aug. 5, 1930.

Ser. No. 305,787. OCKLAWAHA NURSERIES, INC., Lake Jem, Fla. Filed Sept. 17, 1930. Under 10-year proviso.

Hamlin

For Citrus Trees—Namely, Orange Trees.

Claims use since 1883.

Ser. No. 306,217. APOTHECARIES HALL COMPANY, Waterbury, Conn. Filed Sept. 29, 1930.

HY-SYLO

For Seed Corn.

Claims use since Apr. 15, 1930.

CLASS 2

Receptacles

Ser. No. 305,748. CRAWFORD-AUSTIN MANUFACTURING COMPANY, Waco, Tex. Filed Sept. 16, 1930.

DUX-BAK



WATERPROOFED
AND
MILDEWPROOFED

No claim is made to the words "Waterproofed" and "Mildewproofed" apart from the mark as shown.

For Ice-Cream-Packers' Milk-Can Jackets and Tub Covers Made of Waterproofed Canvas.

Claims use since Jan. 1, 1930.

CLASS 3

Baggage, Animal Equipments, Portfolios, and Pocketbooks

Ser. No. 296,853. ASSOCIATED MERCHANDISING CORPORATION, New York, N. Y. Filed Mar. 5, 1930.

Barbara Lee.

The trade-mark as it appears on the specimens is a facsimile of the name "Barbara Lee" as written by Mrs. Charles Carroll, née Comas Enright. Applicant is the owner of registration No. 175,964, effected under the 1905 act.

For Women's and Misses' Hand Bags and Pocketbooks of Leather, Beads, Silk, and Other Fabrics.

Claims use since Oct. 1, 1929.

Ser. No. 302,186. PHOENIX MANUFACTURING COMPANY, Joliet, Ill. Filed June 5, 1930.

Neverslip

RED  TIP

The drawing is lined to indicate the color red. The representation of a calk in said drawing is disclaimed. Applicant is the owner of registration No. 275,477, effected under the 10-year proviso of the 1905 act.

For Calks for Horse and Mule Shoes.

Claims use since September, 1923.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 290,061. MARIE EWING, Oregon City, Oreg. Filed Sept. 21, 1929.

SAPO-SAL

For Soap.

Claims use since Aug. 18, 1925.

Ser. No. 302,309. H. KOHNSTAMM & CO., INC., New York, N. Y. Filed June 10, 1930.

RE-MOV-IT

For Cleaning Powder for Laundry Purposes.

Claims use since Jan. 2, 1928.

Ser. No. 305,405. KUEHNLE, INC., Philadelphia, Pa. Filed Sept. 6, 1930.

TOTEM

For Valve-Grinding Compound, Automobile Soap, Hand Soap, Automobile Top Dressing, Chromium Plate Cleaner, Brake Dressing, and Nickel Polish.

Claims use since July 31, 1930.

Ser. No. 305,471. AL-BERT CO., Hamilton, Ohio. Filed Sept. 9, 1930.

Chase-It

For Hand-Soap Paste.

Claims use since July 25, 1930.

Ser. No. 305,533. MARVAL-AC CO., San Jose, Calif. Filed Sept. 10, 1930.

MARVAL-AC

For Cleaning Compounds.

Claims use since Aug. 4, 1930.

Ser. No. 306,071. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio. Filed Sept. 25, 1930.

IVORY SNOW

For Soap in Comminuted Form.

Claims use since June 17, 1930.

Ser. No. 306,152. VIVILLE (PARIS), INC., New York, N. Y. Filed Sept. 27, 1930.

Baccara

For Soaps and Shaving Creams.

Claims use since Sept. 6, 1930.

Ser. No. 306,153. VIVILLE (PARIS), INC., New York, N. Y. Filed Sept. 27, 1930.

Coeur de l'Ete

For Soaps and Shaving Creams.

Claims use since Sept. 6, 1930.

Ser. No. 306,154. VIVILLE (PARIS), INC., New York, N. Y. Filed Sept. 27, 1930.

Dame de Laque

For Soaps and Shaving Creams.

Claims use since Sept. 6, 1930.

Ser. No. 306,155. VIVILLE (PARIS), INC., New York, N. Y. Filed Sept. 27, 1930.

Ecaille

For Soaps and Shaving Creams.

Claims use since Sept. 6, 1930.

Ser. No. 306,156. VIVILLE (PARIS), INC., New York, N. Y. For Sept. 27, 1930.

Laquer Lady

For Soaps and Shaving Creams.
Claims use since Sept. 6, 1930.

Ser. No. 306,157. VIVILLE (PARIS), INC., New York, N. Y. Filed Sept. 27, 1930.

Prés de Moi

For Soaps and Shaving Creams.
Claims use since Sept. 6, 1930.

Ser. No. 306,207. VIVILLE (PARIS), INC., New York, N. Y. Filed Sept. 29, 1930.

Peony

For Soaps and Shaving Creams.
Claims use since Sept. 6, 1930.

CLASS 5

Adhesives

Ser. No. 304,425. POLOX MANUFACTURING COMPANY, Merriam, Kans. Filed Aug. 9, 1930.

POLOX

For Combined Adhesive Cement and Solder.
Claims use since Jan. 1, 1924.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 273,376. SALVATOR PENNY, doing business as Rheumatol Co., Palisades Park, N. J. Filed Oct. 4, 1928.

RHEUMATOL

For Medicine for the Treatment of Rheumatism and Gout.
Claims use since July 1, 1899.

Ser. No. 281,607. HARRY L. GREENBAUM, doing business as Technical Color and Chemical Works, Brooklyn, N. Y. Filed Mar. 30, 1929.

RED-DEVIL



For Deodorizers, Radiator Antifreeze Compounds, Battery Antifreeze Compounds, Laundry Starch, and Baking Soda.
Claims use since Jan. 15, 1918.

Ser. No. 284,639. WILLIAM H. RORER, INC., Philadelphia, Pa. Filed May 25, 1929.

RECTACONES

For Rectal Suppositories.
Claims use since June 1, 1913.

Ser. No. 286,644. MAY DEPARTMENT STORES COMPANY, New York, N. Y. Filed July 5, 1929.

Oudinet

For Toilet Preparations, Toilet Articles, and Cosmetics—Namely Perfumery, Toilet Water, Face Powder, Dusting Powder, Talcum Powder; Face Cream—Namely, Vanishing, Nourishing, being a Cream for Building up the Pores, Cleansing Cream; Lipstick, Rouge Compacts, Powder Compacts, Refill Sets of Compact Rouge, Refill Sets of Compact Powder, and Bath Salts.
Claims use since Mar. 27, 1929.

Ser. No. 298,687. EDWARD J. BRENNAN, doing business as The Crevisol Company, Harrisburg, Pa., assignor to Nasalets, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 11, 1930.

NASALETS

For Medicinal Preparation Used in the Treatment of Head Colds, Headaches, Sinus Trouble, Nasal Catarrh, and Irritated Conditions of the Nasal and Respiratory Passages.
Claims use since Dec. 10, 1929.

Ser. No. 298,703. KAY LABORATORIES, INC., West Haverstraw, N. Y., assignor to Kay-Fries Chemicals, Inc. Filed Apr. 11, 1930.

DERRATROL

For Agricultural Insecticides.
Claims use since Dec. 14, 1929.

Ser. No. 299,103. AMERICAN CYANAMID COMPANY, New York, N. Y. Filed Apr. 19, 1930.

BARBAK

For Seed Disinfectants.
Claims use since Apr. 7, 1930.

Ser. No. 300,006. ELIZABETH ARDEN, INC., New York, N. Y. Filed May 6, 1930.

Ardena

For Cosmetic Creams for the Skin, Lotions for Application to the Skin, Sunburn Ointment, and Hair Tonic.
Claims use since July, 1920.

Ser. No. 303,000. CHARLES J. DU BATO, doing business as Du Bato Products Co., New York, N. Y. Filed June 30, 1930.

NOMOHOLE

For Composition for Treating Stockings and the Like, Being in the Form of a Chemical Compound of Soaplike Consistency and Being Applied to Stockings and the Like by Rubbing the Same into Such Portions Thereof Which Are Subject to Most Severe Strains to Prevent an Early Wearing Out of Such Portions.
Claims use since May 24, 1930.

Ser. No. 303,060. LIONEL TRADING CO. INC., New York, N. Y. Filed July 2, 1930.



The drawing is lined for color, to wit, for blue, black, yellow, green, purple, and red. No claim is made to the representation of a label apart from the mark shown on the drawing. Applicant is the owner of registered Trade-Mark No. 209,518.
For Lip Sticks.
Claims use since January, 1930.

Ser. No. 303,225. CHARLES W. HUTCHINSON, doing business as Tackett Medicine Company, Huntington, W. Va. Filed July 7, 1930.



No claim is made for the exclusive use of the words "Herb Compound" apart from the other features of the mark as illustrated herein.
For Liquid Preparation for Treating Rheumatism, Stomach Trouble, Blood Impurities, and for Use as a General Tonic.
Claims use since Mar. 14, 1930.

Ser. No. 303,582. SOCIÉTÉ ANONYME FRANÇAISE REDFERN, Paris, France. Filed July 17, 1930.

Redfern

The mark consists of the personal signature of the last name of Mr. Redfern, the founder of the applicant company.
For Perfumery Goods—Namely, Perfumed Waters, Oils, and Paints for the Face.
Claims use since Aug. 9, 1929.

Ser. No. 303,649. NATURE'S HERB COMPANY, San Francisco, Calif. Filed July 19, 1930.



The drawing is lined to indicate green. The words "Tonic-Laxative Tea" are disclaimed apart from the mark as shown.
For Laxatives.
Claims use since May 14, 1930.

Ser. No. 304,797. ELIZABETH BRYANT, New York, N. Y. Filed Aug. 20, 1930.



The portrait shown on the trade-mark is a portrait of the applicant. Applicant disclaims the use of the word "Har-Gro" apart from the trade-mark as shown.

For Preparation for Promoting the Growth of Hair.

Claims use since March, 1929.

Ser. No. 304,847. PHARMA-MAX LOEBINGER & Co., Berlin-Charlottenburg, Germany. Filed Aug. 20, 1930.

EUJECOR

For Cod-Liver Oil.

Claims use since Oct. 31, 1929.

Ser. No. 304,880. FELIX MORGENSTERN, doing business as Morgenstern Chemical Co., New York, N. Y. Filed Aug. 21, 1930.

NEOGESTIN

For Medicinal Preparation for the Treatment of Stomach and Intestinal Diseases.

Claims use since June 1, 1930.

Ser. No. 305,310. JACOB L. ELLMAN, doing business as The Ephedrine Company, University City, Mo. Filed Sept. 4, 1930.



No claim is made herein to the exclusive use of the phrase "Harvard's Ephedrinated Compound."

For Various Preparations for Relief of Nasal Mucosa Affections.

Claims use since Aug. 25, 1930.

Ser. No. 305,333. THE BASTIAN-BLESSING COMPANY, Chicago, Ill. Filed Sept. 5, 1930.

REGO BASIC

For the purpose of this registration only. No exclusive claim is made to the word "Basic" apart from the mark as shown.

For Welding Flux.

Claims use since July 26, 1930.

Ser. No. 305,359. JOSEPHSON DISINFECTING CO., INC., Bronx, N. Y. Filed Sept. 5, 1930.



All the wording appearing on the drawing with the exception of the word "X-Ray" are hereby disclaimed.

For Insect Exterminator, Disinfectant, Deodorant, and Insecticide in Powder or Liquid Form.

Claims use since Aug. 1 1891

Ser. No. 305,407. KUEHNLE INC., Philadelphia, Pa. Filed Sept. 6, 1930.

TOTEM

For Antifreeze for Automobile Radiators, Automobile Radiator Cement, and Automobile Radiator Cleaner.

Claims use since Aug. 12, 1930.

Ser. No. 305,452. ORZYME LABORATORIES, Pittsburg, Kans. Filed Sept. 8, 1930.

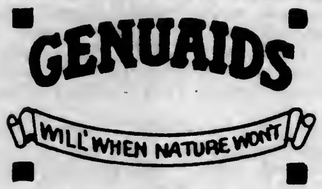


The drawing is lined for shading purposes only.

For Medicinal Preparation for Stomach Disorders, Indigestion, Constipation, Sour Stomach, Biliousness, Nervousness, Loss of Appetite, and Rundown Condition.

Claims use since Aug. 1, 1930.

Ser. No. 305,469. ROBERT S. AGNEW, doing business as Merle Laboratories, Clarion, Pa. Filed Sept. 9, 1930.



For Medicine Tablet for Constipation.

Claims use since May 10, 1930.

Ser. No. 305,511. THE AYER COMPANY, Lowell, Mass. Filed Sept. 10, 1930.

Vita-ray

Applicant is the owner of registered Trade-Mark No. 273,941.

For Hand Lotion, Astringent, Special Astringent, Shampoo, and Hair Lotion.

Claims use since Mar. 21, 1930.

Ser. No. 305,579. MARSHALL & BELL, Atlanta, Ga. Filed Sept. 11, 1930.

GLUCALX

For Medicine in Powder Form for Treatment of Calcium Deficiency.

Claims use since January, 1930.

Ser. No. 305,583. NYANZA COLOR & CHEMICAL CO. INC., New York, N. Y. Filed Sept. 11, 1930.

IMMERSOL

For Chemical Compounds Used in the Preparatory Treatment of Textiles, Leather, and Other Fibers—Namely, Wetting Out and Penetrating Agents.

Claims use since March, 1928.

Ser. No. 305,618. ELI LILLY AND COMPANY, Indianapolis, Ind. Filed Sept. 12, 1930.



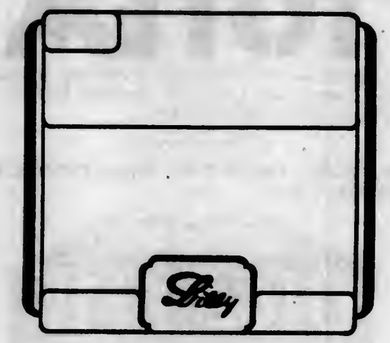
The name "Lilly" is printed in red.

Claims use for the following merchandise since the dates indicated.

Merchandise	*Used since*
Agar, Laxative, Lilly	Feb. 28, 1930
Agar, Plain (Granular)	Feb. 28, 1930
Agar, Prepared, Lilly	Feb. 28, 1930
Alkaline Aromatic, Pink (in Tablets)	Mar. 5, 1930
Alkaline Aromatic, White (in Tablets)	Mar. 12, 1930
Alum Compound (Ointment)	Sept. 28, 1929
Ammoniated Mercury, Ointment (5 Per Cent).	Nov. 1, 1929
Ammoniated Mercury, Ointment, U. S. P. (10 Per Cent).	Sept. 28, 1929
Amytal (Isoamylethylbarbituric Acid)	Dec. 9, 1929
Analgesic Balm, Lilly	June 4, 1929
Antimeningococcic Serum Polyvalent, Refined and Concentrated (in Vials).	Jan. 9, 1930
Antistreptococcic Serum (Polyvalent) (in Syringe Container).	July 16, 1929
Antistreptococcic Serum, Concentrated Polyvalent, Purified, Refined (Globulin) (in Syringe Container).	July 16, 1929
Antistreptococcic Serum (Erysipelas) Concentrated (in Syringe Container).	Apr. 4, 1930
Antistreptococcic Serum (Puerperal Fever) (Polyvalent) (in Syringe Container).	July 16, 1929
Antistreptococcic Serum (Scarlet Fever), Concentrated (in Syringe Container).	Feb. 10, 1930
Ariphon (in Pulvules or Capsules)	June 21, 1929

Merchandise	*Used since*
Azudine	July 8, 1929
Belladonna, Ointment, U. S. P.	Apr. 18, 1930
Boric Acid, Ointment, U. S. P.	Jan. 7, 1930
Bromo-Solanum, Lilly	Mar. 28, 1930
Calcium Gluconate	Apr. 14, 1930
Calomel, Ointment (5 Per Cent)	Apr. 18, 1930
Camphor and Menthol, Ointment	July 8, 1929
Cas-Cathartic, Lilly	Mar. 12, 1930
Catarrhal Vaccine Combined (Respiratory) (in Aseptic Syringes).	July 16, 1929
Cholera Vaccine, Prophylactic (in Vials)	Nov. 14, 1929
Coal Tar, Ointment, Purified	Dec. 9, 1929
Coco-Santal Compound, Lilly	Apr. 11, 1929
Digiglusin (in Ampoules)	June 9, 1928
Ephedrine Compound, Ointment	July 8, 1929
Ephedrine Hydrochloride	Mar. 2, 1930
Ephedrine Hydrochloride, Syrup	Jan. 12, 1930
Ephedrine with Merthiolate, Solution	Apr. 14, 1930
Ephedrine Sulphate, Lilly	Feb. 11, 1930
Erysipelas Streptococcus Antitoxin Purified, Concentrated (Globulin) (in Syringe Container).	July 16, 1929
Gluco-Calcium, Lilly	Jan. 24, 1930
Glycero-Tonic Compound	Feb. 10, 1930
Gonococcus Mixed Vaccine (in Aseptic Syringes).	July 16, 1929
Hamamelis Compound, Ointment	July 8, 1929
Hemagulen	Dec. 10, 1929
Hexalithia, Effervescent (in Tablets)	Mar. 12, 1930
Ichthyol, Ointment (10 Per Cent)	July 8, 1929
Ichthyol, Ointment (20 Per Cent)	Jan. 7, 1930
Influenza Mixed Vaccine (in Aseptic Syringes).	July 16, 1929
Kaomin	June 13, 1929
Kissingen, Artificial Effervescent (in Tablets).	Mar. 12, 1930
Lithium Citrate, Effervescent (in Tablets).	Mar. 5, 1930
Lubricating Jelly	June 4, 1929
Merthiolate, Solution (Sodium Ethyl Mercurithiosalicylate).	Oct. 1, 1929
Pertussis Mixed Vaccine (in Aseptic Syringes).	July 18, 1929
Pituitary Extract, Lilly's Obstetrical (in Ampoules).	Nov. 12, 1929
Plague Vaccine, Prophylactic (in Vials)	Nov. 14, 1929
Psyllium Seed	Feb. 28, 1930
Rabies Vaccine (Harris) (in Syringe Containers).	May 15, 1929
Resorcinol Compound N. F., Ointment	Apr. 21, 1930
Scarlet Red, Ointment (5 Per Cent)	Apr. 18, 1930
Scarlet Fever, Ricinoleated Antigen (in Vials).	Aug. 19, 1929
Scarlet Fever Streptococcus Antitoxin Purified, Concentrated (Globulin) (in Syringe Container).	July 16, 1929
Sinapsolin	July 8, 1929
Stramonium, Ointment (N. F. Strength)	Dec. 24, 1929
Streptococcus-Staphylococcus Vaccine (in Aseptic Syringes).	July 16, 1929
Sulphur Compound, Ointment (N. F. Strength).	Apr. 18, 1930
Tetanus Antitoxin (in Vials)	Sept. 24, 1929
Typhoid Vaccine (in Vials)	Jan. 4, 1930
Typhoid Vaccine (Prophylactic and Therapeutic) (in Aseptic Syringes).	Jan. 9, 1930
Typhoid Mixed Vaccine (in Vials)	Nov. 19, 1929
Typhoid Mixed Vaccine (Prophylactic and Therapeutic) (in Aseptic Syringes).	Jan. 4, 1930
Typhoid Mixed Vaccine (T. A. B.), (in Vials).	Nov. 14, 1929
Urodiuretic	Feb. 28, 1930
Urodiuretic (Nonalcoholic)	Feb. 28, 1930
Vichy, Artificial Effervescent (in Tablets)	Mar. 12, 1930
Whitfield Modified, Ointment	July 8, 1929
Zinc Oxide, Ointment, Lilly	Nov. 4, 1929
Zinc Oxide and Ephedrine Compound, Ointment.	July 8, 1929

Ser. No. 305,619. ELI LILLY AND COMPANY, Indianapolis, Ind. Filed Sept. 12, 1930.



The name "Lilly" is printed in red.

Claims use for the following merchandise since the dates indicated.

Merchandise	*Used since*
Acne Mixed Vaccine (in Vials)	Aug. 19, 1929
Antistreptococcic Serum, Polyvalent (in Vials).	Aug. 19, 1929
Antistreptococcic Serum (Poliomyelitis) (in Vials) (Concentrated).	Aug. 19, 1929
Antistreptococcic Serum (Erysipelas) (Concentrated).	Apr. 8, 1930
Antistreptococcic Serum (Scarlet Fever) (Concentrated).	Feb. 10, 1930
Catarrhal Vaccine, Combined (in Vials)	Aug. 20, 1929
Cholera Vaccine (Prophylactic) (in Vials)	Aug. 13, 1929
Coli Combined Vaccine (Van Cott) (in Vials).	Aug. 20, 1929
Diphtheria Antitoxin, Purified, Concentrated (Rubber-Capped Vials).	Aug. 19, 1929
Diphtheria Toxin-Antitoxin Mixture, Prophylactic (T. A.) (in Vials).	July 15, 1929
Diphtheria Toxin for the Schick Test	Aug. 20, 1929
Gonococcus Mixed Vaccine (in Vials)	Aug. 20, 1929
Gonococcus Vaccine (in Vials)	Aug. 19, 1929
Influenza Mixed Vaccine (in Vials)	Aug. 20, 1929
Influenza-Pneumonia Vaccine (in Vials)	Sept. 24, 1929
Normal Horse Serum (in Vials)	Aug. 19, 1929
Pertussis Vaccine (Pertussis Bacilli) (in Vials).	Aug. 19, 1929
Pertussis Mixed Vaccine (in Vials)	Aug. 20, 1929
Plague Vaccine, Prophylactic (Antipest Vaccine) (Plague Bacilli).	Aug. 19, 1929
Pneumococcus Antigen (in Vials)	Sept. 24, 1929
Pneumococcus Mixed Vaccine (in Vials)	Aug. 19, 1929
Pneumococcus Vaccine (in Vials)	Sept. 24, 1929
Scarlet Fever, Immunizing (Modified Gabritschewsky) (Ricinoleated Antigen Made from Scarlet-Fever Streptococci).	Aug. 19, 1929
Scarlet Fever, Ricinoleated Antigen (Modified Gabritschewsky) (Made from Scarlet-Fever Streptococci).	Aug. 19, 1929
Scarlet Fever Streptococcus Antitoxin (Concentrated) (in Vials).	Aug. 19, 1929
Schick Test Control, the (in Vials)	Oct. 9, 1929
Staphylococcus Aureus Vaccine (Furunculosis) (in Vials).	Aug. 20, 1929
Staphylococcus Vaccine (Mixed Albus and Aureus) (in Vials).	Aug. 19, 1929
Streptococcus-Staphylococcus Vaccine (in Vials).	Aug. 19, 1929
Streptococcus Vaccine (in Vials)	Aug. 19, 1929
Tetanus Antitoxin Purified, Concentrated (Rubber-Capped Vials).	Aug. 19, 1929
Tuberculin Ointment Diagnostic for Moro Percutaneous Test.	Sept. 24, 1929

Merchandise	*Used since*
Tuberculin, Old, Human, Concentrated (in Vials).	Sept. 24, 1929
Tuberculin, Old, Human, with Sterile Diluent (for Various Dilutions, Each Made Up of Tuberculin and Sterile Diluent) (in Vials).	Aug. 16, 1929
Typhoid Mixed Vaccine (T. A. B.) (in Vials) (Prophylactic and Therapeutic).	July 15, 1929
Typhoid Vaccine (Prophylactic and Therapeutic) (in Vials).	July 15, 1929

Ser. No. 305,630. SUPERIOR LABORATORIES, INC., Cleveland, Ohio. Filed Sept. 12, 1930.

Fly-x-it

For Nonpoisonous Liquid Used to Destroy Mosquitoes, Bedbugs, Roaches, Moths, Fleas, Flies, and Ants.

Claims use since June 19, 1930.

Ser. No. 305,682. FRANCES SHERIDAN, New York, N. Y. Filed Sept. 13, 1930.

Frances Sheridan

The trade-mark consists of the signature of the applicant.

For Beauty Creams.

Claims use since Sept. 3, 1930.

Ser. No. 305,711. THE KELLS COMPANY, INC., Newburgh, N. Y. Filed Sept. 15, 1930.

Cat-Aid
VEG-ALL

For Medicinal Preparation for the Relief of Constipation and Urinal Difficulties, with Starch-Digestant Properties and Appetizing Qualities.

Claims use since Aug. 5, 1930.

Ser. No. 305,772. OTTO PASSMAN, Baltimore, Md. Filed Sept. 16, 1930.

Nox Riasis

For Healing Salve for Skin Eruptions.

Claims use since June 1, 1930.

Ser. No. 305,932. LEDERLE LABORATORIES INCORPORATED, New York, N. Y. Filed Sept. 22, 1930.

Lederle

For the following products for human use: Acne Vaccine, Acne Combined Vaccine, Antianthrax Serum, Antidysenteric Serum, Antigonococcus Serum, Antimeningococcus Serum, Antistreptococcus Serum, Bacillus Acidophilus Culture, Bacillus Bulgaricus Culture, Catarrhalis Combined Vaccine, Catarrhalis Influenza Vaccine, Cholera Vaccine, Colon Vaccine, Combined Bacterial Vaccine (Van Cott), Corpus Luteum Extract (Ampuls), Diphtheria Antitoxin, Diphtheria Toxin Antitoxin Mixture, Diphtheria Toxin Antitoxin Mixture (Goat), Schick Test, Schick Test, Control; Epinephrine Hydrochloride, Erysipelas Antitoxin, Gonococcus Vaccine, Gonococcus Combined Vaccine, Influenza Combined Vaccine, Normal Horse Serum, Normal Saline Solution, Pertussis Glycerol Vaccine, Pertussis Vaccine, Pertussis Combined Vaccine, Plague Vaccine (Bubonic), Pneumococcus Vaccine I, II, and III; Pneumococcus Combined Vaccine, Rabies Vaccine (14 Doses) (Semple Method), Staphylococcus Vaccine, Staphylococcus Aureus Vaccine, Staphylococcus Combined Vaccine, Staphylococcus-Streptococcus Vaccine, Streptococcus Vaccine, Streptococcus Combined Vaccine, Tetanus Antitoxin, Thromboplastin (for Local Application), Thromboplastin (for Hypodermic Use), Tuberculin (Mantoux Test), Tuberculin "O. T.," Tuberculin "B. E.," Tuberculin (Von Pirquet Test), Typhoid Vaccine, Typhoid Combined Vaccine, Urethritis Treatment, Vaccine Virus (Smallpox Vaccine), Anaerobic Antitoxin, Digitalis Tablets, Tincture Digitalis, Pituitary Extract (Ampuls), Poison-Ivy Extract, Poison-Oak Extract, Catarrhalis Influenza Glycerol Vaccine, Corpus Luteum Tablets, Gonococcus Glycerol Vaccine, Ovarian Residue; Pituitary, Anterior (Tablets); Pituitary, Post (Tablets); Pituitary, Whole (Tablets); Pollen Antigens (Hay Fever), Pollen Diagnostic Tests, Thyroid Tablets, Whole-Ovary Tablets, Loeffler's Blood Serum Culture Medium, Antipneumococcic Serum (Felton), Bacillus Acidophilus Milk, Ephedrine Inhalant, Ephedrine Hydrochloride (Solution), Ephedrine Hydrochloride (Tablets), Liver Extract, Silver-Nitrate Solution, Digitalis Suppositories; and the following products for Veterinary Use: Abortion Vaccine (1 Injection), Abortion Vaccine (3 Injections), Anthrax Prophylaxis (Simultaneous Method), Anthrax Prophylaxis (Simultaneous Method, Bovine), Anthrax Prophylaxis (Simultaneous Method, Sheep), Anthrax Spore Vaccine (Double Vaccination), Anthrax Spore Vaccine (Special), Antianthrax Serum (Curative), Antianthrax Serum (Bovine), Anticanine Distemper Serum, Antiinfluenza Serum, Equine; Blackleg Aggressin, Blackleg Vaccine (Cultural), Blackleg Vaccine (Pellets), Antiblackleg Serum (Curative), Canine Distemper Vaccine, Laidlaw-Dunkin Method; Canine Distemper Virus, Laidlaw-Dunkin Method; Canine Rabies Vaccine, Chicken-Pox Vaccine, Epinephrine, Equine Influenza Vaccine, Hemorrhagic Septicemia Vaccine (Cattle), Hemorrhagic Septicemia Vaccine (Chickens), Hemorrhagic Septicemia Vaccine (Sheep), Hemorrhagic Septicemia Vaccine (Swine), Hemorrhagic Septicemia Aggressin, Hemorrhagic Septicemia Serum, Liv-Vita, Mallein, Mastitis Mixed Vaccine (Bovine), Antimastitis Serum (Bovine), Mixed Bacterial Vaccine (Bovine), Mixed Bacterial Vaccine (Canine), Mixed Bacterial Vaccine (Equine), Mixed Bacterial Vaccine (Fowl), Mixed Bacterial Vaccine (Swine), Pituitary Extract, Rabies (Dilution Method of Hogyes), Tetanus Antitoxin, Tuberculin (Avian), Tuberculin (Bovine) (Subcutaneous), Tuberculin (Bovine) (Intradermal), Tuberculin (Bovine) Ophthalmic Discs), Antiwhite-Scours Serum, White-Scours Vaccine, Whole-Ovary Extract, Worm Capsules, Antihog-Cholera Serum, Hog-Cholera Virus.

Claims use since 1906.

Ser. No. 306,209. HENRY K. WAMPOLE AND COMPANY, INCORPORATED, Philadelphia, Pa. Filed Sept. 29, 1930.

BON-SOL

For Antiseptic Solution for Use as a Mouth Wash, Gargle, Lotion, Spray, and Douche.
Claims use since Sept. 13, 1930.

Ser. No. 306,221. X. PEL PROCESS CO., South Bend, Ind. Filed Sept. 29, 1930.

X. PEL

For Body Deodorants and Local Perspiration Astringents.
Claims use since July 15, 1930.

Ser. No. 306,249. J. W. SPENCER, doing business as Hygienic Laboratories, New Orleans, La. Filed Sept. 30, 1930.

SANIGYNE

For Antiseptic, Germicidal, and Therapeutic Composition of the Type Employed for Vaginal Douching.
Claims use since Aug. 1, 1930.

Ser. No. 306,318. A. J. KRANK COMPANY, St. Paul, Minn. Filed Oct. 2, 1930.

FACE-VALUE

For Face Lotion.
Claims use since Sept. 1, 1930.

Ser. No. 306,405. MARCY LEVINE, doing business as Marcy Laboratories, New York, N. Y. Filed Oct. 4, 1930.

LITTLE-MOVERS

For Laxatives.
Claims use since Feb. 6, 1929.

Ser. No. 306,424. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Oct. 4, 1930.

CELLEX

For Chemical Substance for Use as a Protective Agent in the Textile Industry.
Claims use since May 16, 1930.

Ser. No. 306,430. MARY R. CAMPBELL, doing business as M. R. Campbell and Co., Fort Wayne, Ind. Filed Oct. 6, 1930.

"MAR-ZAN"

For Flesh-Reducing Preparations.
Claims use since Sept. 1, 1929.

Ser. No. 306,456. ONYX OIL & CHEMICAL CO., Jersey City, N. J. Filed Oct. 6, 1930.

DULLATONE

For Preparation for Application to Textile Fibers and Fabrics for Imparting a Dull Finish Thereto.
Claims use since June, 1929.

Ser. No. 306,457. ONYX OIL & CHEMICAL CO., Jersey City, N. J. Filed Oct. 6, 1930.

VELVOSHEEN

For Preparation for Application to Textile Fibers and Fabrics for Imparting a Soft, Glovey, or Chamois Feel Known as the Old French and for Strengthening Them.
Claims use since December, 1929.

CLASS 7

Cordage

Ser. No. 297,395. WILLIAMSPORT WIRE ROPE COMPANY, Williamsport, Pa. Filed Mar. 15, 1930.



No claim is made to the representation of the outline of a tape marker shown on the drawing.
For Wire Rope.
Claims use since Mar. 1, 1920.

Ser. No. 297,396. WILLIAMSPORT WIRE ROPE COMPANY, Williamsport, Pa. Filed Mar. 15, 1930.



The crosshatching in the drawing indicates the color black. No claim is made to the representation of the outline of a tape marker shown on the drawing.
For Wire Rope.
Claims use since Mar. 1, 1920.

Ser. No. 297,397. WILLIAMSPORT WIRE ROPE COMPANY, Williamsport, Pa. Filed Mar. 15, 1930.



The crosshatching in the drawing indicates the color brown. No claim is made to the representation of the outline of a tape marker shown on the drawing.
For Wire Rope.
Claims use since Mar. 1, 1920.

CARNEGIE LIBRARY OF ATLANTA

Ser. No. 297,399. WILLIAMSPORT WIRE ROPE COMPANY, Williamsport, Pa. Filed Mar. 15, 1930.



The crosshatching in the drawing indicates the color yellow. No claim is made to the representation of the outline of a tape marker shown on the drawing.
For Wire Rope.
Claims use since Mar. 1, 1920.

Ser. No. 297,400. WILLIAMSPORT WIRE ROPE COMPANY, Williamsport, Pa. Filed Mar. 15, 1930.



The crosshatching in the drawing indicates the color blue. No claim is made to the representation of the outline of a tape marker shown on the drawing.
For Wire Rope.
Claims use since Mar. 1, 1920.

Ser. No. 297,401. WILLIAMSPORT WIRE ROPE COMPANY, Williamsport, Pa. Filed Mar. 15, 1930.



The crosshatching in the drawing indicates the color green. No claim is made to the representation of the outline of a tape marker shown on the drawing.
For Wire Rope.
Claims use since Mar. 1, 1920.

CLASS 8

Smokers' Articles, Not Including Tobacco Products

Ser. No. 305,745. THE CAMBRIDGE GLASS CO., Cambridge, Ohio. Filed Sept. 16, 1930.



No claim is made for the word "Cambridge" apart from the mark shown in the drawing.
For Glassware—Namely, Ash Trays, Cigarette Boxes, and Cigar Humidors.
Claims use since 1927.

CLASS 9

Explosives, Firearms, Equipments, and Projectiles

Ser. No. 272,121. AMTORG TRADING CORPORATION, New York, N. Y. Filed Sept. 10, 1928.



For Matches.
Claims use since Aug. 1, 1928.

Ser. No. 306,359. LION MATCH COMPANY, INC., New York, N. Y. Filed Oct. 3, 1930.

"FEATURE"

For Matches, Including Book Matches.
Claims use since Sept. 25, 1930.

CLASS 10

Fertilizers

Ser. No. 304,320. FRANKLIN LABORATORIES, INC., Columbus, Ohio. Filed Aug. 7, 1930.

Dry-Inoc

For Fertilizer and Nitrogen-Fixing Bacteriological Composition for Inoculation of Seeds and the Like, and More Particularly for the Inoculation of Leguminous Seeds.
Claims use since May 8, 1928.

Ser. No. 305,302. WILSON & TOOMER FERTILIZER CO., Jacksonville, Fla. Filed Sept. 3, 1930.



For Fertilizers and Fertilizer Materials.
Claims use since September, 1921.

CLASS 12

Construction Materials

Ser. No. 280,692. THE CARBORUNDUM COMPANY, Niagara Falls, N. Y. Filed Mar. 14, 1929.

CARBO

For Tiles, Treads, Granular Tread Material, Roof Tiles.
Claims use since April, 1928.

Ser. No. 301,444. INDIANA LIMESTONE COMPANY, Bedford, Ind., and New York, N. Y. Filed May 28, 1930.

ILCO DARK HOLLOW VARIEGATED

No claim being made to the exclusive use of the word "Variegated" apart from the mark as shown in the drawing.
For Building Stone as It Comes from the Quarry.
Claims use since May, 1926.

Ser. No. 301,445. INDIANA LIMESTONE COMPANY, Bedford, Ind., and New York, N. Y. Filed May 28, 1930.

ILCO DARK HOLLOW BUFF

No claim being made to the exclusive use of the word "Buff" apart from the mark as shown in the drawing.
For Building Stone as It Comes from the Quarry.
Claims use since May, 1926.

Ser. No. 303,618. THE BOND BROTHERS COMPANY, INC., Baltimore, Md. Filed July 9, 1930.

BOND SEAL

No claim is made to the word "Seal" apart from the mark shown on the drawing.
For Asbestos-Fibre Roof Cements.
Claims use since Sept. 1, 1928.

Ser. No. 303,679. AMALGAMATED ROOFING COMPANY, Chicago, Ill. Filed July 21, 1930.

NU-BRIK

For Outside Coverings for the Walls and Roofs of Buildings, Made of Flexible Felt Impregnated with Asphalt and Usually Surfaced with Small Particles of Weather-Resisting Material.
Claims use since July 16, 1930.

Ser. No. 305,187. JACOBSON & COMPANY, New York, N. Y. Filed Aug. 30, 1930.

CHROMAK

For Slabs, Casts, Bands, and Placques of Composition Material, Used as Wall Covering and Decoration, Yielding the Appearance of Inlaid Colored Designs.
Claims use since July 28, 1930.

Ser. No. 305,553. WOOD-MOSAIC CO., INC., Louisville, Ky. Filed Sept. 10, 1930.

Gothic Oak

No claim is herein made to the exclusive use of the word "Oak" apart from the mark as shown.
For Lumber Which is Particularly Intended for but Not at All Limited to Use for Veneers and Floorings.
Claims use since Feb. 12, 1930.

Ser. No. 305,867. LONGVIEW LIME WORKS, Longview, Ala. Filed Sept. 19, 1930. Under 10-year proviso.

LONGVIEW LIME

No claim is made to the word "Lime" apart from the mark as shown.
For Lime.
Claims use since 1890.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 304,670. ERNEST REICH, doing business as Ernest Reich & Company, Chicago, Ill. Filed Aug. 15, 1930.

FRIGIDUTH

For Food Containers, Cups, Saucers, and Plates, All Made of Metal and Used in Refrigerators.
Claims use since May 31, 1928.

Ser. No. 305,712. CLAUDE A. LEWIS, Houston, Tex. Filed Sept. 15, 1930.

KEEKADDY

For Pocket Base-Metal Key Holders.
Claims use since Aug. 15, 1930.

Ser. No. 305,815. MATHIAS KLEIN & SONS, Chicago, Ill. Filed Sept. 18, 1930.

HANKS

For Snaps and Dee Rings for Climber Belts and Safety Straps.
Claims use since July 19, 1930.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 304,386. RUSELITE CORPORATION, Milwaukee, Wis. Filed Aug. 8, 1930.

RUSELITE

For Aluminum Alloys.
Claims use since July 25, 1930.

Ser. No. 305,113. P. R. MALLORY & CO. INCORPORATED, Indianapolis, Ind. Filed Aug. 28, 1930.

MAL—ARC

For Metal Inserts for Backing Dies for Arc Welding Machines.
Claims use since July 31, 1930.

CLASS 15

Oils and Greases

Ser. No. 293,883. LAUREL SOAP MANUFACTURING CO., INC., Philadelphia, Pa. Filed Dec. 19, 1929.

Laurel

For Lubricating Oils for Knitting Machines.
Claims use since 1909.

Ser. No. 300,151. GLENN A. SMITH, Los Angeles, Calif. Filed May 8, 1930.

GOLDEN STATE KARAT

For Petroleum and Products of Petroleum With or Without Admixture of Other Materials for Illuminating, Heating, Power, Burning, Lubricating, Greasing, Tempering, Quenching, Slushing, and Flushing; Mineral Wax, Candles, Penetrating Oil, Road-Dressing Oil, and Absorbing Oil for Benzol Vapors Obtained in the Distillation of Coal.
Claims use since Apr. 1, 1930.

Ser. No. 302,759. THE WYANDOTTE OIL & FAT COMPANY, Cleveland, Ohio. Filed June 28, 1930.

HYDROFOL

For Hydrogenated Fats Intended as an Ingredient or Emulsifying Base for Lubricants.
Claims use since October, 1929.

Ser. No. 304,137. H. O. GREEN, Napoleon, Ohio. Filed Aug. 2, 1930.

LUB—X—

For Condensed Motor Oil to be Added to Lubricating Oil to Increase Its Efficiency.
Claims use since Jan. 6, 1930.

Ser. No. 305,994. BIJUR LUBRICATING CORPORATION, New York, N. Y. Filed Sept. 24, 1930.

BIJUR

For Lubricating Oils.
Claims use since Jan. 18, 1927.

CLASS 16

Paints and Painters' Materials

Ser. No. 303,419. CON-FERRO PAINT & VARNISH COMPANY, St. Louis, Mo. Filed July 12, 1930.

EVN-LAC

No claim is made to the exclusive use of the word "Lac" apart from the mark shown in the drawing.
For Lacquer, Paint Enamel, Paint Thinners, and Bronze Paint.
Claims use since Aug. 23, 1926.

Ser. No. 303,519. THE TEXAS COMPANY, Wilmington, Del., and New York, N. Y. Filed July 15, 1930.

EL GLYKOL

For Damp-Proofing, Waterproofing, Priming, and Coating Paints.
Claims use since Jan. 17, 1930.

Ser. No. 305,408. KUEHNLE, INC., Philadelphia, Pa. Filed Sept. 6, 1930.

TOTEM

For Tire Paint, Touch-Up Enamel, Automobile Body Polish, and Automobile Enamel.
Claims use since Aug. 12, 1930.

CLASS 17

Tobacco Products

Ser. No. 305,897. THE HOUSE OF CRANE, INC., Indianapolis, Ind. Filed Sept. 20, 1930.

LONDONAIRE

For Smoking Tobacco.
Claims use since July 17, 1930.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 289,501. BUTLER AIRCRAFT CORPORATION, Kansas City, Mo. Filed Sept. 9, 1929.



The words "Kansas City" are specifically disclaimed. The drawing is lined for red, blue, and black, and the unlined portions represent white.
For Aeroplanes.
Claims use since September, 1928.

Ser. No. 289,814. BRADFIELD MOTORS, INC., Wilmington, Del., and Chicago, Ill. Filed Sept. 16, 1929.



No claim is made to the words "America's Smartest Cab" apart from the mark as shown in the drawing.
For Automobiles and Taxicabs.
Claims use since August 20, 1929.

Ser. No. 306,115. JAY J. WHITE, INC., Philadelphia, Pa. Filed Sept. 26, 1930.

HELPER SPRINGS

No claim is made to the word "Springs" apart from the mark shown.
For Vehicle Springs.
Claims use since April, 1930.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 305,261. ARCTURUS RADIO TUBE COMPANY, Newark, N. J. Filed Sept. 3, 1930.

Photolytic

For Light-Sensitive Cells.
Claims use since Mar. 11, 1930.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 304,442. HENRY WILKES & CO., LIMITED, Warwick, England. Filed Aug. 9, 1930.



For Fishhooks.
Claims use since Jan. 3, 1884.

Ser. No. 305,675. PARKER BROTHERS, INC., Portland, Me., and Salem, Mass. Filed Sept. 13, 1930.

KING ARTHUR

For Board Game with Movable Pieces.
Claims use since Aug. 28, 1930.

Ser. No. 305,905. THE LAMP STUDIO, Utica, N. Y. Filed Sept. 20, 1930.

Lynda-Lou

For Dolls.
Claims use since Aug. 11, 1930.

Ser. No. 305,957. ARLINGTON RUBBER CO., Dorchester, Mass. Filed Sept. 23, 1930.

DEMON

For Golf Balls.
Claims use since March, 1929.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 292,381. ED. WÜSTHOF, Solingen, Germany. Filed Nov. 13, 1929. Under 10-year proviso.

WÜSTHOF

For Meat-Serving Knives, Oyster Openers and Oyster Forks, Orange Peelers, Oyster Openers (Breakers), Bakers' Knives, Flower Scissors, Bean-Cutting Knives, Envelope Openers and Paper Shears Made of Base Metal, Bread Forks, Bread Knives, Bookbinders' Knives and Cutters, Tin Openers, Butter and Cheese Knives, Caviare Knives and Scoops, Champagne-Bottle Openers, Champagne-Bottle Wire Cutters, Cigar-Makers' Knives, Cigar-Box Hammers, Lemon-Cutting Knives, Mixed Chocolate Knives and Forks, Ladies' Scissors, Dessert Knives and Forks, Cigar Cutters, Cigar-Box Knives, Cigar-Cutting Scissors, Daggers, Egg Spoons, Egg Scissors (Cutters), Feather-Curling Knives, Fish Knives and Forks, Meat-Cutting Scissors, Forks of Britannia or German Silver, Gardening Knives, Garden Shears, Poultry Scissors, Vegetable Knives, Glaziers' Putty Knives, Hairdressers' Scissors, Hair-Cutting Machines, Hammer Pincers, Hare-Bone Breakers, Wood-Splitting Knives, Hoof Knives, Lobster Forks and Scissors, Hunting Knives, Cheese Knives, Chip-Carving Knives, Children's Knives and Forks, Children's Scissors, Buttonhole Scissors, Cooks' Knives, Corkscrews, Pawn (Shrimp) Knives and Forks, Kitchen Knives and Forks, Fruit Knives for Kitchen Use, Furriers' Knives, Lamp-Wick Scissors, Leather Knives, Spoons of Britannia or German Silver, Nonabrasive Knife Sharpeners, Butchers' Steels, Nutcrackers, Fruit Knives and Forks, Paper Scissors, Pasty Scoops, Horse Clippers, Awls and Bodkins; Dolls' Knives, Forks, and Spoons; Erasing Knives, Safety Razors, Razors; Travellers' Knives, Forks, and Spoons; Rose Scissors, Bread-Roll Knives; Salad Knives, Forks, and Spoons; Sardine Knives and Forks, Ham Knives, Butchers' Knives, Tailors' Scissors, Shoemakers' Knives, Asparagus Scoops, Asparagus Knives, Food Pushers (for Little Children) in the Nature of Table Cutlery Made of Base Metal, Larding Knives, Embroidery Scissors, Table-Knife Steels, Pocketknives, Pocket Scissors, Table Forks, Table Knives, Cake Scoops, Cake Cutters, Carving Knives and Forks, Grape Scissors, Gilders' Knives, Cattle-Marking Tools, Weavers' Scissors, Chopping Knives, Sausage Forks, Sugar Tongs, Cutlers' Scissors. The forks, spoons, and knives mentioned above are all made of base metal.
Claims use since Mar. 17, 1869.

Ser. No. 293,212. CRUCIBLE STEEL CASTING COMPANY, Cleveland, Ohio. Filed Dec. 4, 1929.

CRUSCO

For Finished Castings, Particularly Rolling-Mill Piercing Points, Plugs, and Guides.
Claims use since Nov. 11, 1929.

Ser. No. 297,801. D. & M. MACHINE WORKS, Torrance, Calif. Filed Mar. 24, 1930.

D. & M.

For Pumps and Pump Parts and Pump Accessories, Such as Piston Rods, Pistons, Pump Valves, Etc.
Claims use since 1925.

Ser. No. 304,428. GEO. D. ROPER CORPORATION, Rockford, Ill. Filed Aug. 9, 1930.

ROPER

For Pumps—Namely, Farm Pumps, Such as House Pumps for Shallow Wells, Pitcher-Spout Pumps, Hand Lift and Force Pumps, Windmill Lift and Force Pumps, Underground Force Pumps, Booster Reciprocating Pumps, Hand Tank Pumps, and Well Cylinders for the Foregoing; Other Pumps for Different Purposes, Such as Garage Pumps—Namely, Hand-Operated Double-Acting Pumps for Elevating Gasoline, Kerosene, and Oils from Underground Storage, and Boiler Feed Pumps; Rotary Gear Pumps, Hand operated or Power Driven, Suitable for Pumping a Wide Variety of Liquids Industrially and Otherwise; Hand Rotary Vane Pumps, and Shallow and Deep Well Water Systems and Pumps in General and Parts Thereof.
Claims use since 1927.

Ser. No. 304,881. NICHOLSON FILE COMPANY, Providence, R. I. Filed Aug. 21, 1930.



No claim being made to the representation of the file. The trade-mark is an orange-colored tang or handle on the tool to which it is applied.
For Files and Rasps.
Claims use since July 15, 1930.

Ser. No. 305,073. FOUR-WHEEL TRACTION COMPANY, New York, N. Y. Filed Aug. 27, 1930.

SUPER 4 DRIVE

No claim is made to the figure "4" or the word "Drive" except in the association shown.
For Tractors and Parts Thereof.
Claims use since July 3, 1930.

Ser. No. 306,250. SY-FILL MFG. CO., San Francisco, Calif. Filed Sept. 30, 1930.

SY-FILL

For Bottle Capping and Filling Machine.
Claims use since July 28, 1930.

Ser. No. 306,372. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Oct. 3, 1930.

PURITAN

For Food Choppers.
Claims use since Feb. 1, 1929.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 289,680. INTERNATIONAL TICKET SCALE CORPORATION, New York, N. Y. Filed Sept. 12, 1929.



For Weighing Scales.
Claims use since Jan. 1, 1929.

Ser. No. 298,386. J. W. GUTTKNECHT, Stein, near Nuremberg, Germany. Filed Apr. 4, 1930.

Waage

For Drafting Instruments—Namely, Rulers, Calculating Rules, and Triangles.
Claims use since May 8, 1875.

Ser. No. 298,389. J. W. GUTTKNECHT, Stein, near Nuremberg, Germany. Filed Apr. 4, 1930.



For Drafting Instruments—Namely, Rulers, Calculating Rules, and Triangles.
Claims use since May 8, 1875.

Ser. No. 298,390. J. W. GUTTKNECHT, Stein, near Nuremberg, Germany. Filed Apr. 4, 1930.

Balance

For Drafting Instruments—Namely, Rulers, Calculating Rules, and Triangles.
Claims use since May 8, 1875.

Ser. No. 305,141. LUGENE INC., New York, N. Y. Filed Aug. 29, 1930.



No claim is made to the representation of the eyeglasses apart from the mark shown in the accompanying drawing.

For Lorgnettes, Eyeglasses, and Spectacles and Constituent Parts Thereof; Opera Glasses, Marine Glasses, Field Glasses, Optical Frames, and Optical Instruments.
Claims use since May, 1925.

Ser. No. 305,450. THE OAKES MANUFACTURING COMPANY, Tipton, Ind. Filed Sept. 8, 1930.



For Thermostatic Diaphragms.
Claims use since Aug. 1, 1930.

Ser. No. 305,451. THE OAKES MANFACTURING COMPANY, Tipton, Ind. Filed Sept. 8, 1930.



For Thermostatic Diaphragms.
Claims use since Aug. 1, 1930.

Ser. No. 306,461. REMCO GAUGE CO., INC., St. Louis, Mo. Filed Oct. 6, 1930.

REMCO

For Gauges for Measuring Liquids.
Claims use since August, 1929.

CLASS 27

Horological Instruments

Ser. No. 305,263. BULOVA WATCH COMPANY, INC., New York, N. Y. Filed Sept. 3, 1930.

VIKING

For Watches.
Claims use since Mar. 15, 1928.

Ser. No. 306,227. ROBERT C. BARNSTONE, New York, N. Y. Filed Sept. 30, 1930.

AMORITA

For Watches, Clocks, Chronometers, Wrist Watches, and Santoir Watches.
Claims use since Aug. 1, 1930.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 294,801. CONFEDERATION OF ZONTA CLUBS, INCORPORATED, Chicago, Ill. Filed Jan. 15, 1930.

ZONTA

For Club Badges, Pins, and Finger Rings, All Made of or Plated with Precious Metal.
Claims use since Nov. 8, 1919.

Ser. No. 298,637. MAX KRONSTADT, doing business as Bristol Seamless Ring Co., New York, N. Y. Filed Apr. 10, 1930.

TREASURE

For Finger Rings.
Claims use since Mar. 1, 1930.

Ser. No. 300,793. GEMEX COMPANY, Newark, N. J. Filed May 19, 1930.



For Watch Bracelets, Watch Straps; Watch Attachments—Namely, Watch Chains, Fobs, and Charms; Neck Chains, Bracelets, Scarfpins, Finger Rings, and Belt Buckles and Ear and Hair Ornaments Made of or Plated with Precious Metal.
Claims use since May 14, 1921.

Ser. No. 304,898. WHITE METAL CASTER'S ASSOCIATION, INC., New York, N. Y. Filed Aug. 21, 1930.

WMCA

For Rhinestones and Rhinestone Jewelry for Personal Wear Made of White-Metal Casting.
Claims use since June, 1930.

Ser. No. 305,853. BENJAMIN & EDWARD J. GROSS CO., INC., New York, N. Y. Filed Sept. 19, 1930.

ANCHORS A'WEIGH

For Finger Rings and Mountings Therefor.
Claims use since June, 1930.

Ser. No. 305,854. BENJAMIN & EDWARD J. GROSS CO. INC., New York, N. Y. Filed Sept. 19, 1930.

GLORY O'LOVE

For Finger Rings and Mountings Therefor.
Claims use since June, 1930.

Ser. No. 305,855. BENJAMIN & EDWARD J. GROSS CO. INC., New York, N. Y. Filed Sept. 19, 1930.

ISLE O'LOVE

For Finger Rings and Mountings Therefor.
Claims use since June, 1930.

Ser. No. 305,856. BENJAMIN & EDWARD J. GROSS CO. INC., New York, N. Y. Filed Sept. 19, 1930.

LIGHT O'LOVE

For Finger Rings and Mountings Therefor.
Claims use since June, 1930.

Ser. No. 305,857. BENJAMIN & EDWARD J. GROSS CO. INC., New York, N. Y. Filed Sept. 19, 1930.

LOVE O' MINE

For Finger Rings and Mountings Therefor.
Claims use since June, 1930.

Ser. No. 305,859. BENJAMIN & EDWARD J. GROSS CO. INC., New York, N. Y. Filed Sept. 19, 1930.

STAR O' LOVE

For Finger Rings and Mountings Therefor.
Claims use since December, 1929.

Ser. No. 305,860. BENJAMIN & EDWARD J. GROSS CO. INC., New York, N. Y. Filed Sept. 19, 1930.

VAGABOND

For Finger Rings and Mountings Therefor.
Claims use since June, 1930.

Ser. No. 306,125. NAN BARCLAY, Chicago, Ill. Filed Sept. 27, 1930.

FREE

For Finger Rings.
Claims use since Jan. 1, 1930.

Ser. No. 306,228. ROBERT C. BARNSTONE, New York, N. Y. Filed Sept. 30, 1930.

AMORITA

For Diamond Finger Rings, Lockets, Cigarette Cases, Jewel Boxes, Cuff Buttons, Cuff Links, Pins, Mesh Bags, Necklaces, Belt Buckles, Hand Bags, Card Cases, Match Boxes, Sterling Flasks, Scarf Pins, Lavalieres, Brooches, Bracelets, Collar Buttons, Earrings, Tie Clasps; College, Club, and Fraternity Emblems; Brushes, Mirrors, Manicure Sets, Purses, Nail Files, Nail Polishers, Studs, Eyeglass Cases, Lingerie Clasps, Hair Brushes, Guard Chains, Watch Fobs, Cigar Cutters, Cigarette Holders, Cork Screws, Key Chains and Rings, Pencils, Silver Tobacco Cases, Knives, Forks, Spoons, Buttons, Cups, Combs, Napkin Rings, Rattles, Safety Pins, Shoe Buckles, Ear Studs, Coin Holders, Cologne Bottles, Watch Chains, Salt and Pepper Shakers; Ivory Jewelry and Dresser Sets Consisting of Combs, Brushes, Manicure Sets, Vanity Cases, Puff Boxes, Mirror and Picture Frames, Festoons, Costume Jewelry. The articles enumerated above are all made wholly or in part of precious metal or plated therewith.
Claims use since Aug. 1, 1930.

Ser. No. 306,285. ABRAHAM J. QUINT, doing business as A. Quint & Company, Chicago, Ill. Filed Oct. 1, 1930.

Chanvrelette

For Finger Rings.
Claims use since Sept. 16, 1930.

CLASS 29

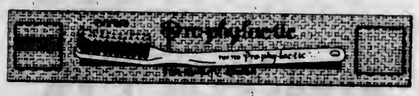
Brooms, Brushes, and Dusters

Ser. No. 297,420. SAMUEL M. DELL & CO., INC., Baltimore, Md. Filed Mar. 17, 1930.

FITZ-RITE

For Paintbrushes.
Claims use since Mar. 6, 1930.

Ser. No. 305,876. THE PRO-PHY-LAC-TIC BRUSH COMPANY, Northampton, Mass. Filed Sept. 19, 1930.



The background of the box is yellow, having a representation of a toothbrush thereon; the word "Pro-phy-lac-tic," except on the brush, is in red, and the remainder of the printing is in black. Except in combination with the other features shown in the drawing, no claim is made to the representation of a box, nor to the representation of a toothbrush except as shown, nor to the exclusive use of the phrase "The Quality Brush" or the word "Tufted" or other printing appearing thereon except the registered trade-mark "Pro-phy-lac-tic."
For Toothbrushes.
Claims use since 1905.

CLASS 30

Crockery, Earthenware, and Porcelain

Ser. No. 289,969. LOUIS J. GLASER, Rochester, N. Y. Filed Sept. 19, 1929.

GLACO
SOUVENIRS

No claim is made to the exclusive use of the word "Souvenirs" apart from the mark as shown in the drawing.
For Ceramic Goods—Namely, Cups, Saucers, Plates, and Pitchers.
Claims use since Aug. 22, 1929.

CLASS 32

Furniture and Upholstery

Ser. No. 306,360. NACHMAN SPRING-FILLED CORPORATION, Chicago, Ill. Filed Oct. 3, 1930.

Spring Knight

For Mattresses.
Claims use since June 28, 1930.

Ser. No. 306,361. NACHMAN SPRING-FILLED CORPORATION, Chicago, Ill. Filed Oct. 3, 1930.

Restal Knight

For Mattresses.
Claims use since June 28, 1930.

CLASS 34

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus

Ser. No. 300,883. HERMANN NIER, Beierfeld, Germany. Filed May 20, 1930.

FEUERHAND

For Hurricane Lamps, Filling Screws, Burners, Oil Containers, Protective Grids, and Reflectors, All for Use with Hurricane Lamps, and Petroleum Stoves.
Claims use since Dec. 30, 1914.

Ser. No. 305,744. THE CAMBRIDGE GLASS COMPANY, Cambridge, Ohio. Filed Sept. 16, 1930.

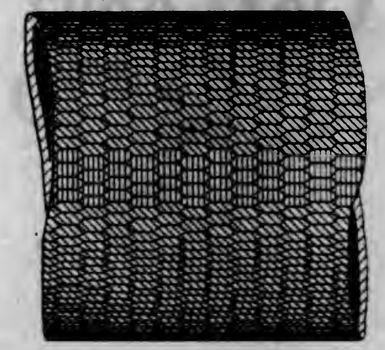
Cambridge

No claim is made for the word "Cambridge" apart from the mark shown in the drawing.
For Candlesticks Made of Glass.
Claims use since 1927.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 289,197. THE MANHATTAN RUBBER MFG. CO., Passaic, N. J., assignor to Raybestos-Manhattan, Inc., a Corporation of New Jersey. Filed Aug. 30, 1929.



The trade-mark consists of a longitudinal red band at each of two diametrically opposite points on the outer sur-

face of the hose, usually displayed by weaving the covering fabric out of green-colored threads, with each longitudinal red band made up of four red-colored warp threads. In the drawing the diagonal lines indicate the green color and the vertical lines indicate red. Such lining for green color, together with the pictured representation of a section of the hose, is disclaimed.

For Fire Hose Made Out of or Having as Its Exterior Woven Fabric of Cotton or the Like.

Claims use since September, 1928.

Ser. No. 296,444. RHODES METALLIC PACKING COMPANY, Detroit, Mich. Filed Feb. 24, 1930.

RESILIENT LUBRICATED RHODES METALLIC PACKING

The words "Resilient Lubricated" and "Metallic Packing" are disclaimed apart from the combination as shown.

For Metallic Packing.

Claims use since July 1, 1929.

Ser. No. 302,490. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed June 16, 1930.

•SUPER• BEST MADE

No claim is made to the words "Best Made" apart from the mark shown in the drawing.

For Garden Hose.

Claims use since Jan. 20, 1930.

Ser. No. 305,354. GENERAL MOTORS CORPORATION, Detroit, Mich. Filed Sept. 5, 1930.

OAKLAND 8

The drawing is lined to indicate the color red.

For Tire Covers.

Claims use since Nov. 18, 1929.

CLASS 36

Musical Instruments and Supplies

Ser. No. 270,391. THE PLATTER CABINET COMPANY, North Vernon, Ind. Filed July 31, 1928.

PHOTOTONE

For Double-Turntable Amplified Phonograph Instruments.

Claims use since Mar. 1, 1928.

CLASS 37

Paper and Stationery

Ser. No. 297,992. ARTHUR G. TRIMBLE, Pittsburgh, Pa. Filed Mar. 27, 1930.

Rountop

The word "Roundtop" is disclaimed apart from the mark shown in the drawing.

For Pens, Pencils, and Combination Pens and Pencils.

Claims use since Feb. 15, 1930.

Ser. No. 298,504. LENOIR BOOK COMPANY, Lenoir, N. C. Filed Apr. 7, 1930.

The Town Leader

For Stationery Tablets and Composition Books.

Claims use since Oct. 1, 1914.

Ser. No. 305,783. H. C. KURZ, A. G., Nuremberg, Germany. Filed Sept. 17, 1930.

Coloraior

For Black Lead Pencils, Copying Pencils, Crayons, and Colored Crayons.

Claims use since 1900.

Ser. No. 306,041. STAMFORD WALL PAPER COMPANY, INCORPORATED, Stamford, Conn. Filed Sept. 24, 1930.

CRESTILES

For Wall Paper.

Claims use since July 1, 1930.

Ser. No. 306,256. BADGER TISSUE MILLS, Kaukauna, Wis. Filed Oct. 1, 1930.

HOM STOR

For Toilet Paper, Paper Towels, Paper Napkins, and Paper Table Covers.

Claims use since Sept. 2, 1930.

CLASS 38

Prints and Publications

Ser. No. 297,532. JEWELERS PUBLISHING CORPORATION, New York, N. Y. Filed Mar. 19, 1930.

The Jewelers' Acoular Loupe

For Leaflet Issued Monthly.

Claims use since May, 1929.

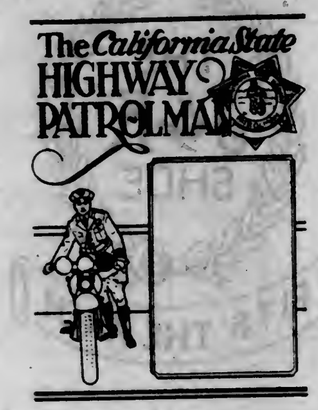
Ser. No. 303,819. MYSTERY LEAGUE, INC., New York, N. Y. Filed July 25, 1930.



For Printed Books.

Claims use since June 26, 1930.

Ser. No. 305,198. RICHARD S. SPARKS, doing business as The Public Service Bureau of Los Angeles and The California State Highway Patrolman, Los Angeles, Calif. Filed Aug. 30, 1930.



For Periodical Publication.

Claims use since Mar. 10, 1930.

Ser. No. 305,934. NEWS PRINTING COMPANY, Paterson, N. J. Filed Sept. 22, 1930.

Paterson Evening News.

For Daily Newspaper Published Every Day Except Sunday.

Claims use since December, 1890.

CLASS 39

Clothing

Ser. No. 267,136. P. H. LUTHER, Los Angeles, Calif. Filed May 28, 1928.

Lutheir MODES

Applicant disclaims right to exclusive use of the word "Modes".

For Ladies' and Misses' Hats.

Claims use since Jan. 10, 1926.

Ser. No. 288,913. THE JULIAN & KOKENGE COMPANY, Cincinnati, Ohio. Filed Aug. 23, 1929.

THE J&K SHOE

FITS THE ARCH

No claim is made to the words "Fits the Arch" and "Shoe" apart from their use as shown.
For Men's, Women's, and Children's Shoes.
Claims use since 1908.

Ser. No. 290,134. P. H. LUTHER, Los Angeles, Calif. Filed Sept. 23, 1929.

MODERNETTE



The drawing is lined to portray the color red. However, the applicant makes no claim to color as a feature of the trade-mark.
For Ladies' and Misses' Hats.
Claims use since July 22, 1929.

Ser. No. 290,482. UNIVERSAL RAYON UNDERWEAR CORPORATION, New York, N. Y. Filed Oct. 1, 1929.

MOON MIST

For Women's Rayon Underwear.
Claims use since Dec. 11, 1929.

Ser. No. 296,852. ASSOCIATED MERCHANDISING CORPORATION, New York, N. Y. Filed Mar. 5, 1930.

Barbara Lee

Applicant owns registration No. 175,904 for the mark "Barbara Lee". The trade-mark as it appears on the specimens is a facsimile of the name "Barbara Lee" as written by Mrs. Charles Carroll McComas Enright.
For Women's and Misses' Coats of Seasonal Materials, Such as Silk, Woolen, and Fur; Women's and Misses' Hats of Felt, Straw, Braid, and Silk; Women's and Misses' Shoes of Leather and Satin; and Women's and Misses' Underwear of Silk and Lace.
Claims use since Sept. 15, 1926, on coats; since Aug. 1, 1929, on hats; since Oct. 1, 1929, on Shoes; and since Feb. 1, 1930, on underwear.

Ser. No. 303,058. KRESGE DEPARTMENT STORE CORPORATION, Newark, N. J. Filed July 2, 1930.

Lynbrooke

For Men's Furnishings—Namely, Dress Shirts, Pajamas, Socks, Neckties, Mufflers, Suspenders, Belts for Outer Wear, Garters, Collars, Golf Hose, Leather Jackets, One and Two Piece Underwear, Gloves of Leather, Fabric, and Rubber, Hats, Nightshirts, and Bathing Suits.
Claims use since September, 1928.

Ser. No. 303,059. KRESGE DEPARTMENT STORE CORPORATION, Newark, N. J. Filed July 2, 1930.

BEAUBROOKE

For Men's Furnishings—Namely, Dress Shirts, Pajamas, Socks, Neckties, Mufflers, Suspenders, Belts for Outer Wear, Garters, Collars, Golf Hose, Leather Jackets, One and Two Piece Underwear, Gloves of Leather, Fabric, and Rubber, Hats, Nightshirts, and Bathing Suits.
Claims use since Feb. 1, 1930.

Ser. No. 303,415. BONE DRY SHOE MANUFACTURING COMPANY, Tacoma, Wash. Filed July 12, 1930.

Paul Bunyan

Paul Bunyan is a legendary character in the logging industry, reputed to be the greatest logger in history.
For Leather Logger Shoes.
Claims use since Mar. 1, 1930.

Ser. No. 303,731. M. N. ARNOLD SHOE COMPANY, North Abington, Mass. Filed July 23, 1930.

ARNOLDEE

For Shoes of Leather, Rubber, or Fabric and of Combinations of Those Materials.
Claims use since July 15, 1930.

Ser. No. 303,732. M. N. ARNOLD SHOE COMPANY, North Abington, Mass. Filed July 23, 1930.

ARNOLDAIRE

For Shoes of Leather, Rubber, or Fabric and of Combinations of Those Materials.
Claims use since July 15, 1930.

Ser. No. 303,733. M. N. ARNOLD SHOE COMPANY, North Abington, Mass. Filed July 23, 1930.

ARNOLDEAGLE

For Shoes of Leather, Rubber, or Fabric and of Combinations of Those Materials.
Claims use since July 15, 1930.

Ser. No. 303,734. M. N. ARNOLD SHOE COMPANY, North Abington, Mass. Filed July 23, 1930.

ARNOLDOON

For Shoes of Leather, Rubber, or Fabric, and of Combinations of Those Materials.
Claims use since July 15, 1930.

Ser. No. 303,753. SELF RE-HEEL TOP, INC., Brooklyn, N. Y. Filed July 23, 1930.



Applicant disclaims the right to the exclusive use of the pictorial representation of the shoe and shoe heel and also the expression "Fitzon."
For Heels for Ladies' Shoes.
Claims use since May 1, 1930.

Ser. No. 304,567. NATIONAL BELLAS HESS CO., INC., New York, N. Y. Filed Aug. 13, 1930.

BELBROOK

For Men's Suits and Overcoats.
Claims use since Aug. 20, 1928.

Ser. No. 304,568. NATIONAL BELLAS HESS., INC., New York, N. Y. Filed Aug. 13, 1930.

NATIONAL Handcraft

For Men's Suits and Overcoats.
Claims use since Aug. 20, 1928.

Ser. No. 304,591. STEVENS-VAN ENGELEN COMPANY, Salt Lake City, Utah. Filed Aug. 13, 1930.

SVE

The drawing is lined for red.
For Overalls, Cover Alls, Mechanics' Suits, and Jumpers.
Claims use since July 1, 1930.

Ser. No. 304,610. DURABLE KNITTING MILLS, Philadelphia, Pa. Filed Aug. 14, 1930.

Wolpaca

For Men's and Boys' Sweaters and Sweater Coats.
Claims use since June 3, 1930.

Ser. No. 304,867. HICKOK MANUFACTURING COMPANY INC., Rochester, N. Y. Filed Aug. 21, 1930.

KURV-EEZ

For Men's Garters or Hose Supporters.
Claims use since Mar. 15, 1930.

Ser. No. 304,906. MAX BAUER, INCORPORATED, New York, N. Y. Filed Aug. 22, 1930.



For Babies' and Children's Wearing Apparel—Namely, Babies' Hats, Bonnets, Caps, Dresses, and Suits for Boys and Girls.
Claims use since January, 1930.

Ser. No. 304,943. DEVINE & YUNGEL SHOE MFG. CO., Harrisburg, Pa. Filed Aug. 23, 1930.

THE FIRST-AID ARCH SHOE

No claim is made to the expression "Arch Shoe" apart from the mark as shown.
For Leather Shoes for Men, Women, Growing Girls, Misses, and Children.
Claims use since June, 1930.

Ser. No. 304,976. STEINBERG BROTHERS, Philadelphia, Pa. Filed Aug. 23, 1930.

DUROTEX

For Men's and Young Men's Suits in One, Two, Three, and Four Piece Garments, Trousers, Vests, Knickers, Overcoats, and Topcoats.
Claims use since Aug. 1, 1930.

Ser. No. 305,015. LOUIS C. ROSENBLATT, New York, N. Y. Filed Aug. 25, 1930.

Elsietection

For Women's and Misses' Dresses and Frocks.
Claims use since Aug. 1, 1929.

Ser. No. 305,499. MAX H. SHIVITZ, INC., New York, N. Y. Filed Sept. 9, 1930.



For Ladies' Clothing—Namely, Coats and Suits.
Claims use since June 20, 1930.

Ser. No. 305,527. PAUL GUENTHER, INC., New York, N. Y. Filed Sept. 10, 1930.

Guentex

For Hosiery.
Claims use since Aug. 28, 1930.

Ser. No. 305,571. GOTHAM SILK HOSIERY COMPANY, INC., New York, N. Y. Filed Sept. 11, 1930.

MYSTERIE

For Hosiery.
Claims use since July 28, 1930.

Ser. No. 305,659. DAVID & BLUM INC., New York, N. Y. Filed Sept. 13, 1930.



Applicant makes no claim to the right to the exclusive use of the expression "Fine French Gloves" apart from the mark shown in the accompanying drawing. "D & B" means David and Blum Inc., "B" means Buscarlet, "G" Guibert.
For Leather Gloves.
Claims use since Aug. 1, 1930.

Ser. No. 305,674. THE NOLDE & HORST COMPANY, Reading, Pa. Filed Sept. 13, 1930.

FIRST LADY OF THE LAND

For Hosiery.
Claims use since May 1, 1930.

Ser. No. 305,678. RICHMOND HOSIERY MILLS, Rossville, Ga. Filed Sept. 13, 1930.

RAYODINE

For Hosiery.
Claims use since June, 1930.

Ser. No. 305,698. DEXDALE HOSIERY MILLS, Lansdale, Pa. Filed Sept. 15, 1930.

WINDOWCLOX

For Hosiery.
Claims use since Aug. 16, 1930.

Ser. No. 305,708. INTERNATIONAL SHOE CO., St. Louis, Mo. Filed Sept. 15, 1930.

ELASTI-TRED

For Boots and Shoes of Leather.
Claims use since Sept. 2, 1930.

Ser. No. 305,750. DUN DEER SANDALS, INC., Auburn, N. Y. Filed Sept. 16, 1930.



For Boots and Shoes of Leather, Fabric, and Combinations Thereof.
Claims use since Apr. 15, 1930.

Ser. No. 305,761. THE PATRICIA PETTICOAT CO. INC., New York, N. Y. Filed Sept. 16, 1930.

FLORAMOR CREPE

No claim being made to the exclusive use of the word "Crepe" apart from the mark as shown in the drawing.
For Women's and Misses' Silk Undergarments—Namely, Chemises, Nightgowns, Pajamas, Princess Slips, Dance Sets, Step-Ins, Petticoats, Bloomers, and French Drawers.
Claims use since May 1, 1930.

Ser. No. 305,823. MURRAY ROTHENBERG & CO., INC., New York, N. Y. Filed Sept. 18, 1930.



For Boys' Shirts and Blouses.
Claims use since August, 1929.

Ser. No. 305,893. LOUIS BASKIND & CO., INC., New York, N. Y. Filed Sept. 20, 1930.

STYLIST

For Men's and Boys' Dress and Negligee Shirts and Men's and Boys' Pajamas.
Claims use since June 1, 1930.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 300,176. DOBBS & CO., New York, N. Y. Filed May 9, 1930.



For Fancy Textile Cases for Holding Handkerchiefs, Gloves, or Similar Articles; Feather Hat Ornaments, Cloth Mourning Bands, Hunting or Wind Guards for Hats, Boudoir Dolls; Decorative Hat Pieces—Namely, Base-Metal Pins, Artificial Flowers, Fancy Hatbands; Stud Sets Not Made of Precious Metal, Shoe Laces, and Shoehorns in Leather Cases.
Claims use since July, 1908.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 289,613. M. C. D. BORDEN & SONS, INC., New York, N. Y. Filed Sept. 11, 1929.

TIN TYPE PRINTS

No claim is made to the word "Prints" apart from the mark shown in the drawing.
For Cotton and Cotton and Rayon Mixed Piece Goods.
Claims use since Aug. 26, 1929.

Ser. No. 304,171. WEBB & COMPANY, Newtownards, Northern Ireland. Filed Aug. 2, 1930.

DEW

For Towels, Diapers of Linen.
Claims use since 1891.

Ser. No. 304,238. DEDHAM FINISHING COMPANY, Dedham, Mass. Filed Aug. 5, 1930.

DEDHAM —GUARANTEED— PERMANENT FINISH

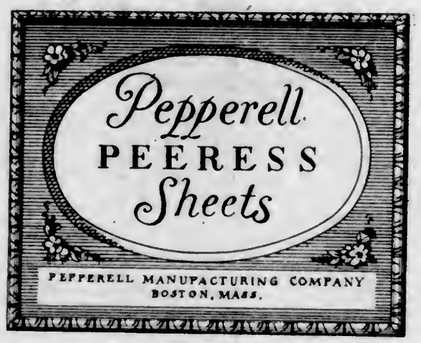
No claim is made to the words "Dedham Guaranteed Permanent Finish" except in connection with the mark shown.
For Cotton Woven Fabric.
Claims use since July 1, 1920.

Ser. No. 304,769. GRISWOLDVILLE MFG. COMPANY, New York, N. Y. Filed Aug. 19, 1930.

Filta

For Certain Textile Fabrics—viz, a Filled or Stiffened Fabric in the Nature of Filter Cloth.
Claims use since Jan. 3, 1930.

Ser. No. 305,622. PEPPERELL MANUFACTURING COMPANY, Boston, Mass. Filed Sept. 12, 1930.



Apart from their association with the rest of the mark as shown on the label, applicant makes no claim to the use of the words "Sheets" and "Boston, Mass."
For Textile Sheets and Sheetings.
Claims use since July 28, 1930.

Ser. No. 305,666. B. B. & R. KNIGHT CORPORATION, Providence, R. I. Filed Sept. 13, 1930.

SUNDELLA

For Textiles—Namely, Fabrics Made of Cotton, Wool, Silk, or Rayon or Combinations of Any of These Yarns.
Claims use since Aug. 26, 1930.

Ser. No. 305,735. E. F. TIMME & SON, New York, N. Y. Filed Sept. 15, 1930.

Beaverlece

For Pile Fabrics in the Piece.
Claims use since Sept. 8, 1930.

Ser. No. 305,770. E. F. TIMME & SON, New York, N. Y. Filed Sept. 16, 1930.

Paca-Kurl

For Pile Fabrics in the Piece.
Claims use since Sept. 3, 1930.

Ser. No. 306,083. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Sept. 26, 1930.

Alpasquirl

For Pile Fabrics in the Piece.
Claims use since Sept. 19, 1930.

Ser. No. 306,087. CHENEY BROTHERS, South Manchester, Conn. Filed Sept. 26, 1930.

Cabaña

For Woven, Knitted, Netted, Textile, and Pile Fabrics in the Piece Comprised in Whole or in Part of Silk.
Claims use since Aug. 16, 1930.

Ser. No. 306,104. PERKINS HOSIERY MILLS, Columbus, Ga. Filed Sept. 26, 1930.

JORDANE

For Knitted and Woven Fabrics Made of Wool, Silk, Cotton, Synthetic Threads or Yarns, or Mixture Thereof.
Claims use since June 14, 1930.

Ser. No. 306,129. CHENEY BROTHERS, South Manchester, Conn. Filed Sept. 27, 1930.

Crepe Andante

No claim is made to the word "Crepe" apart from the mark as shown.
For Woven, Knitted, Netted, Textile, and Pile Fabrics in the Piece Comprised in Whole or in Part of Silk.
Claims use since Sept. 22, 1930.

CLASS 43

Thread and Yarn

Ser. No. 302,711. JULIUS A. WEINBERGER, doing business as The Jawine Co., New York, N. Y. Filed June 21, 1930.



For Wool Yarns.
Claims use since May 28, 1930.

Ser. No. 305,695. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Sept. 15, 1930.

GRENDINO

For Yarns or Threads.
Claims use since Sept. 13, 1930.

Ser. No. 305,970. FRANKLIN PROCESS COMPANY, Providence, R. I. Filed Sept. 23, 1930.

DURTAN

For Dyed Thread and Yarn.
Claims use since Aug. 1, 1930.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 271,785. VITAGLASS CORPORATION, New York, N. Y. Filed Aug. 30, 1928.

VITA

For Glass Screens for Arc Lamps, Glass Bulbs for Electric Lamps, and Glass Tubes for Ultra-Violet Lamps, Said Screens, Bulbs, and Tubes Being Transparent to the Curative Ultra-Violet Rays of Daylight and Other Light Sources and Being in the Nature of Electromedical Appliances.
Claims use since Feb. 19, 1927.

Ser. No. 286,426. WILLIAM DIXON, INCORPORATED, Newark, N. J. Filed July 1, 1929.

DIXON

For Dental Appliances and Materials—Namely, Dental Engines, Lathes, and Parts Thereof, Dental Handpieces, Dental Mallets and Hammers, Dental Burs, Drills, Dental Bur Cases, Dental Extractors, Dental Mandrels and Portepolishers, Dental Root Trimmers, Reamers and Facers, Dental Abrasive Points, Disks, Stones, Dental Polishing Cups, Disks, Points, Brushes, Wheels, Strips, Dental Burnishers, Dental Post Extractors, Dental Saws, Dental Disk Moisteners, Dental Forceps, Dental Pliers and Punches, Dental Root Elevators, Dental Lancets, Dental Scissors, Shears, Tweezers, and Tongs, Dental Crown Slitters, Dental Chairs, Dental Headrests, Dental Equipment Stands, Dental Spitoon and Spitoon Stands, Saliva Ejectors, Dental Operating Stools, Dental Brackets, Bracket Tables, Tablets and Trays, Electric Furnaces, Dental Vulcanizers and Thermometers Therefor, Dental Flasks and Flask Press, Gas-Administering Apparatus, Inhalers and Tubes Therefor, Gas Cylinders Adapted for

Use in Connection with Gas-Administering Apparatus, Handles and Holders for Dental Tools, Dental Scalers, Cleavers, Chisels, Hatchets, Hoes, Spoons, Discolds, Cleoids, Cutting and Carving Instruments, Excavators, Bits, Canal Cleaners, Broaches, Bristles, and Probes, Dental Pluggers, Dental Filling Materals and Instruments, Gum Retractors, Dental Root Driers, Dental Pellet Placers, Dental Files and Knives, Dental Matrix Material and Implements, Dentimeters, Dental Sterilizers, Dental Lamps, Dental Burners and Dental Blowpipes, Dental Spatulas, Dental Mirrors, Dental Syringes, Dental Mortars and Pestles, Dental Rubber Dam, Rubber-Dam Clamps, Rubber-Dam Holders, and Rubber-Dam Weights, Dental Napkin Holders, Dental Floss, Dental Cotton and Waste Holders, Tooth Separating and Regulating Appliances, Mouth Distenders, Dental Gold Plates, Disks, and Shells, Dental Crown-Forming Devices, Dental Waxes, Dental Casting Outfits, Fusible Metal for Dental Practice, Dental Investment Compound, Dental Impression Trays, Dental Modeling Composition, Dental Vulcanite Scrapers, Trimmers, and Finishers, Dental Bench Blocks, Artificial Teeth, Facings, Crowns and Posts, Tooth-Shade Guides, Dental Jaw and Mouth Props, and Dental Instrument Cases, Racks, Cabinets, Tin Foil, Tenney Blocks, Spiders, Asbestos Cups, Stone Truers, Duplex Tracers, Carbo Disks, Paper Cones, Casseroles, Rolling Mills, Crown and Bridge Work Systems, Swages, and Sprue-Forming Devices.

Claims use since Jan. 1, 1908.

Ser. No. 304,123. EUGENE E. BEADLE, Waterbury, Conn. Filed Aug. 2, 1930.

GeeBee

For Apparatus and Equipment for Medical and Surgical Use—Namely, Ear, Nose, and Throat Instruments, Obstetrical Instruments and Apparatus, Genitourinary Instruments and Apparatus, Filtering Devices, First-Aid Apparatus, Bandages, Dressings, and Adhesive Plaster, Gynecological Instruments and Apparatus, Trusses and Abdominal Belts, Irrigation Apparatus, Enema Enamel Ware, Sterilizers, Physiotherapy Apparatus, Therapeutic Electric Lamps, and Anesthesia Apparatus.

Claims use since June 1, 1930.

Ser. No. 305,368. THE PREMIER CO. INC., New York, N. Y. Filed Sept. 5, 1930.

RENU

For Manicure Implements.

Claims use since Aug. 18, 1930.

Ser. No. 305,512. JOHN EDWARD BURT, Philadelphia, Pa. Filed Sept. 10, 1930.

Pro-Tex

For Prophylactic Rubber Articles for the Prevention of Contagious Diseases.

Claims use since Sept. 6, 1930.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 304,636. SEEMAN BROTHERS, INC., New York, N. Y. Filed Aug. 14, 1930.

White Rose



LEMON DRY

The words "Lemon Dry" and the representation of the goods are disclaimed apart from combination as shown in the drawings.

For Nonalcoholic, Maltless Fruit Powders Used for Making Soft Drinks.

Claims use since June 1, 1930.

Ser. No. 304,637. SEEMAN BROTHERS, INC., New York, N. Y. Filed Aug. 14, 1930.

White Rose



ORANGE DRY

The words "Orange Dry" and the representation of the goods are disclaimed except in the association shown in the drawing.

For Nonalcoholic, Maltless Fruit Powders Used for Making Soft Drinks.

Claims use since June 1, 1930.

Ser. No. 306,313. GINSENG PRODUCTS CORP., Oregon City, Oreg. Filed Oct. 2, 1930.

JING

For Maltless, Nonalcoholic Beverage.

Claims use since July 10, 1930.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 287,088. JOHN A. MORAN, New York, N. Y. Filed July 13, 1929.

YEASTLAC

For Milk Food Beverage Containing Yeast.

Claims use since Apr. 6, 1929.

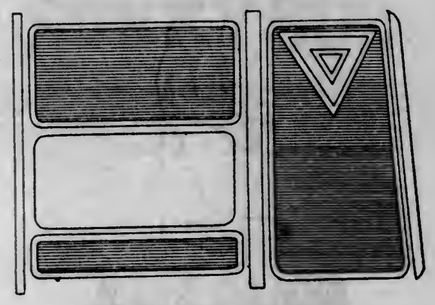
Ser. No. 287,402. HERMAN J. ELSE, doing business as L. C. Products Co., Fairview Village, Ohio. Filed July 20, 1929.

PAL

For Chocolate Pudding, Cocoanut Cream Custard, Lemon-Flavor Pie Filling, Orange and Lemon Icings, Marshmallow Icing.

Claims use since July 17, 1929.

Ser. No. 293,826. INTERNATIONAL PRODUCTS CORPORATION, New York, N. Y. Filed Dec. 6, 1929.



The trade-mark consists of three horizontal panels with a vertical panel at the right thereof. The upper and lower of the horizontal panels are dark blue and have gold borders and the middle panel is white, all appearing on a light-blue background. Three vertical gold stripes divide the mark into three parts. The vertical panel which appears in the right portion of the mark is also dark blue with gold border. The inverted triangle at the top thereof is crimson, and the small triangle within the large triangle is yellow, the small triangle being separated from the large triangle by a gold stripe and the large triangle being bordered by a gold stripe.

For Canned Meats—Namely, Canned Corned Beef and Canned Meat Loaf.

Claims use since Feb. 18, 1929.

Ser. No. 294,688. GEO. RASMUSSEN CO., Chicago, Ill. Filed Jan. 11, 1930.



For Cake, Canned Fruits, Canned Fish, Canned Vegetables, Cheese, Fruit Preserves, Table Syrup, Sauerkraut, and Table Relishes, Such as Catsup, Pickled Onions, Mixed and Other Pickles, Sweet Relish, and Chowchow.

Claims use since Mar. 16, 1915.

Ser. No. 296,031. TEXAS FIG, INCORPORATED, Sugar Land, Tex. Filed Feb. 14, 1930.

El Ridge

For Canned Preserved Figs.

Claims use since April, 1928.

Ser. No. 298,681. WILLIAM A. ZOSKE, Rochester, N. Y. Filed Apr. 10, 1930.



POLAR BEAR HOT

For Cakes.
Claims use since Feb. 1, 1930.

Ser. No. 300,518. JOSEPH E. HARLEY, Jr., doing business as The Barnwell Cucumber Growers Association and as Barnwell Growers Association, Barnwell, S. C. Filed May 14, 1930.



CAROLINA MOON

For Fresh Cucumbers and Watermelons.
Claims use since May 15, 1929.

Ser. No. 301,825. D. CALAMARI CO., Chicago, Ill. Filed May 31, 1930.

Forest Treats

For Shelled Nuts Salted and Unsalted.
Claims use since Feb. 26, 1930.

Ser. No. 302,025. RANDOLPH MARKETING COMPANY, Los Angeles, Calif. Filed May 31, 1930.

PRESIDIO

For Fresh Deciduous Fruits and Fresh Citrus Fruits.
Claims use since Apr. 8, 1930.

Ser. No. 302,191. GRACE A. RUSH, INC., Hyde Park, Cincinnati, Ohio. Filed June 5, 1930.

Martha Ann

For Fruit Cakes, Black-Walnut Fruit Cakes, Mapled Pecans, Spiced Cinnamon Almonds, Spiced Pecans, Carameled Almonds, Mint Almonds, Brandy Hard Sauce, Old-Fashioned Pure-Sugar Stick Candy, Date Dessert, Grapefruit Marmalade, Glacé Stem Ginger, Glacé Ginger Strips, Glacé Mint-Tipped Stem Ginger, Glacé Grapefruit Peel, Glacé Orange-Peel Strips, Glacé Dates Stuffed with Fruits and Nuts, Glacé Figs Stuffed with Fruits, Glacé Stuffed Prunes, Glacé Stuffed Fruits Assorted, Glacé Pineapple Fritters, and Glacé Pineapple Fingers.
Claims use since November, 1916.

Ser. No. 302,319. HARD & RAND, INC., New York, N. Y. Filed June 11, 1930.

ANDES

For Coffee.
Claims use since June 2, 1930.

Ser. No. 302,856. THE FRANKLIN ICE CREAM CORPORATION, Kansas City, Mo. Filed June 26, 1930.

Franklin Ice Cream

The words "Ice Cream" are hereby disclaimed apart from the mark as shown.
For Ice Cream.
Claims use since July 1, 1922.

Ser. No. 303,632. ESKIMO PIE CORPORATION, Louisville, Ky. Filed July 19, 1930.

GLACIER

For Candy Covering for Frozen Confections.
Claims use since July 1, 1925.

Ser. No. 303,633. ESKIMO PIE CORPORATION, Louisville, Ky. Filed July 19, 1930.

KING SOLOMON

For Ice Cream.
Claims use since Jan. 1, 1927.

Ser. No. 303,636. ESKIMO PIE CORPORATION, Louisville, Ky. Filed July 19, 1930.

SNOW MAN

For Candy Covering for Frozen Confections.
Claims use since Mar. 13, 1926.

Ser. No. 303,942. THE GREAT ATLANTIC & PACIFIC TEA COMPANY, New York, N. Y. Filed July 29, 1930.



For Canned Salmon.
Claims use since September, 1922.

Ser. No. 303,943. THE GREAT ATLANTIC & PACIFIC TEA COMPANY, New York, N. Y. Filed July 29, 1930.

SULTANA

For Canned Salmon.
Claims use since September, 1922.

Ser. No. 304,055. WILLIAM LICHTENSTEIN, doing business as Ideal Trading Co., New York, N. Y. Filed July 31, 1930.

FUDO

For Food Products—Namely, Canned Vegetables, Sardines, Raisins, Rice, Barley, Cocoa, Coffee, Cocoanut, Tea, Spices; Fresh, Dried, and Canned Fish; Dried and Canned Prunes; Fresh, Dried, and Canned Apricots; Fresh, Dried, and Canned Peaches; Fresh, Dried, and Canned Beans; Fresh, Dried, and Canned Peas; Fresh, Dried, and Canned Lentils; Shelled, Unshelled, Salted, and Candied Nuts.
Claims use since July 12, 1930.

Ser. No. 304,461. J. S. HOTCHKISS & BRO. CO., Meadville, Pa. Filed Aug. 11, 1930.

SUNNY SUE

For Mustard, Pickles, Olives, Evaporated Milk; Canned Fruits and Vegetables, Including Canned Beans, Pumpkin, Sauer-Kraut, Sweet Peas, Tomatoes, Corn, Strawberries, and Raspberries, Cherries, Plums, Peaches, Apples, Pears, and Wheat Flour.
Claims use since Jan. 16, 1928.

Ser. No. 304,719. H. T. FRAME, Rockland, Ohio. Filed Aug. 18, 1930.

FRAME'S

OUR SERVICE KEEPS THEM FRESH

"Our Service Keeps Them Fresh" is disclaimed.
For Salted Peanuts and Chocolate-Coated Raisins.
Claims use since Jan. 1, 1930.

Ser. No. 305,041. GERBER & COMPANY, INC., New York, N. Y. Filed Aug. 26, 1930.

OBERLAND

For Cheese.
Claims use since July 10, 1930.

Ser. No. 305,045. CARLOS LAFAYE, doing business as Grand Metal Goffy Co., Hato Rey, San Juan, Porto Rico, and New York, N. Y. Filed Aug. 26, 1930.



The drawing being lined to indicate the colors red and blue, and no claim being made to the exclusive use of the words "A New Corn Product."
For Corn-Product Confection.
Claims use since July 17, 1930.

Ser. No. 305,272. FLORIDA FRUIT CANNERS, INC., Frostproof, Fla. Filed Sept. 3, 1930.

GOLDEN NIP

For Fruit Juices for Food Purposes.
Claims use since Aug. 17, 1930.

Ser. No. 305,400. THE HARTER PACKING COMPANY, Yuba City, Calif. Filed Sept. 6, 1930.

GOLDEN WAY

For Canned Fruits.
Claims use since July 12, 1930.

Ser. No. 305,401. THE HARTER PACKING COMPANY, Yuba City, Calif. Filed Sept. 6, 1930.

SABLE

For Canned Fruits.
Claims use since July 12, 1930.

Ser. No. 305,402. HARTER PACKING COMPANY, Yuba City, Calif. Filed Sept. 6, 1930.

BRITEWAY

For Canned Fruits.
Claims use since July 12, 1930.

Ser. No. 305,492. POSTUM COMPANY, INC., Battle Creek, Mich., and New York, N. Y. Filed Sept. 9, 1930.



Applicant disclaims all the wording appearing upon the drawing with the words "Post," "Post Toasties," "Postum," facsimile signature "C. W. Post," and the name "Postum Company Inc.," apart from the mark as shown. The lining on the drawing indicates the colors yellow and red.

For Cereal Breakfast Foods.
Claims use since May 15, 1929.

Ser. No. 305,890. BEATRICE WHITTAKER, doing business as Aunt Feetzy Co., New York, N. Y. Filed Sept. 19, 1930.

AUNT FEETZY'S
SPANISH PEPPER
SAUCE



The words "Spanish Pepper Sauce" are disclaimed apart from the mark shown in the drawing.
For Spanish Pepper Sauce.
Claims use since Aug. 1, 1930.

Ser. No. 305,909. PALMER HOUSE COMPANY, Chicago, Ill. Filed Sept. 20, 1930.



For Coffee and Olives.
Claims use since July, 1928.

Ser. No. 305,971. JOHN J. HASTINGS, doing business as Irish Products Co., Boston, Mass. Filed Sept. 23, 1930.

IRISH MAID

For Malt Syrup.
Claims use since Oct. 11, 1929.

Ser. No. 305,997. HANNAH ELIZABETH CORDREY, doing busines as O I C Produce Co., Salisbury, Md. Filed Sept. 24, 1930.

OIC

For Fresh Cantaloupes.
Claims use since July 10, 1928.

Ser. No. 306,160. HOWARD WHITNEY, South Pasadena, Calif. Filed Sept. 27, 1930.

UPLAND GOLD

For Fresh Citrus Fruits.
Claims use since Sept. 20, 1930.

Ser. No. 306,212. WELLMAN, PECK & CO., San Francisco, Calif. Filed Sept. 29, 1930.

GENERAL MESS

For Coffee.
Claims use since July 1, 1919.

Ser. No. 306,234. FOOD PRODUCTS CO., New York, N. Y. Filed Sept. 30, 1930.



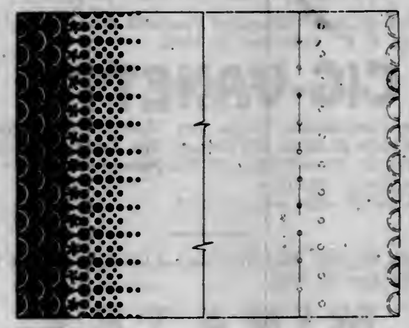
For Buttermilk, Sour Milk, and Frozen Milk.
Claims use since Sept 15, 1930.

Ser. No. 306,259. THE CATAWBA CANDY COMPANY, Sandusky, Ohio. Filed Oct. 1, 1930.

GUERNSEY GIRL

For Candy.
Claims use since Oct. 8, 1924.

Ser. No. 306,274. JOHN MACKINTOSH & SONS LTD. INC., Boston, Mass. Filed Oct. 1, 1930.



For Candy.
Claims use since January, 1928.

Ser. No. 306,294. WILLIAMSON CANDY CO., Chicago, Ill. Filed Oct. 1, 1930.

Gold Pieces

For Candy.
Claims use since August, 1930.

Ser. No. 306,429. M. AUGENBLICK & BRO. INC., Newark, N. J. Filed Oct. 6, 1930.

Tulip

For Butter and Eggs.
Claims use since Dec. 15, 1920, on butter, and since Mar. 14, 1930, on eggs.

CLASS 48

Malt Beverages and Liquors

Ser. No. 301,218. TWO RIVERS BEVERAGE COMPANY, Two Rivers, Wis. Filed May 24, 1930.



No claim is made to the word "Manhattan" apart from the mark as shown.
For Cereal Malt Beverage Containing Less Than One-Half of One Per Cent Alcohol, by Volume.
Claims use since April, 1929.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 301,498. MONDAINE PRODUCTS CORPORATION, New York, N. Y. Filed May 28, 1930.

CIG-VANETTE

For Combination Vanity and Cigarette Compartment Cases Made of Metal and Covered with Leather, Imitation Leather, or Other Fabric and Compacts, or Compacts and Loose Powder Therefor.
Claims use since Aug. 10, 1929.

Ser. No. 304,779. MINATEX SAMPLE COMPANY, Dallas, Tex. Filed Aug. 19, 1930.

MINATEX

For Display Samples to Show Special Features of Garments Such as Waistbands, Pockets, and Other Structural Parts.
Claims use since July 1, 1930.

Ser. No. 304,789. SAMUEL W. SHOEMAKER, Bartlesville, Okla. Filed Aug. 19, 1930.

DEAL-DIRECT-PLAN

For Wood Sign Holders.
Claims use since July 24, 1930.

Ser. No. 305,277. HODGMAN RUBBER CO., Framingham, Mass. Filed Sept. 3, 1930.

Nukaf

For Rubberized Textile Fabric.
Claims use since May 9, 1930.

Ser. No. 306,103. MONDAINE PRODUCTS CORPORATION, New York, N. Y. Filed Sept. 26, 1930.

MONDAINE

For Combination Cigarette and Vanity Compartment Cases Made of Metal and Covered with Leather, Imitation Leather, or Other Fabric and Compacts, or Compacts and Loose Powder Therefor.
Claims use since Aug. 10, 1929.

Ser. No. 306,391. F. S. CARR COMPANY, Boston, Mass. Filed Oct. 4, 1930.

CARR-RHINO

For Artificial Leather.
Claims use since June 2, 1930.

Ser. No. 306,681. LEA FABRICS INC., Newark, N. J. Filed Oct. 13, 1930.

LEAGRASS

For Pile Fabrics as a Unit Simulating Grass for Surfacing of Golf Courses, Croquet Grounds, Cemeteries, Grave Linings or Toppings, or for Tennis Courts Simulating Grass or Turf and the Like.
Claims use since Aug. 1, 1930.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

NOVEMBER 11, 1930

277,146. FERTILIZERS, PARTICULARLY LEAF-MOLD HUMUS. OLD LEAF MOLD HUMUS CORPORATION, Indianapolis, Ind.
Filed July 17, 1930. Serial No. 303,573. PUBLISHED SEPTEMBER 2, 1930. Class 10.

277,147. WRITING INK. L. E. WATERMAN COMPANY, New York, N. Y.
Filed July 10, 1930. Serial No. 303,358. PUBLISHED SEPTEMBER 2, 1930. Class 11.

277,148. CANDLES. WEST INDIA OIL COMPANY, Bayonne, N. J.
Filed July 3, 1930. Serial No. 303,139. PUBLISHED AUGUST 26, 1930. Class 15.

277,149. GLASS AND CRYSTAL BEADS FOR PERSONAL WEAR, NECKLACES, AND JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. ADOLF WENZEL, Gablonz, Czechoslovakia.
Filed June 26, 1930. Serial No. 302,877. PUBLISHED SEPTEMBER 2, 1930. Class 28.

277,150. LUBRICATING OILS AND GREASES AND GASOLINE. ATLANTIC, PACIFIC & GULF OIL COMPANY, Kansas City, Mo.
Filed June 28, 1930. Serial No. 302,925. PUBLISHED SEPTEMBER 2, 1930. Class 15.

277,151. LEAF TOBACCO, CIGARETTES, AND SMOKING TOBACCO. LUCKETT-WAKE TOBACCO CO., Louisville, Ky.
Filed June 26, 1930. Serial No. 302,864. PUBLISHED SEPTEMBER 2, 1930. Class 17.

277,152. ELECTRICAL CONTACT FINGERS FOR CONDUCTING ELECTRIC CURRENT IN AND BETWEEN PARTS OF ELECTRIC CONTROL APPARATUS. ORCO MFG. CORP., Buffalo, N. Y., assignor to Eureka Metal Products Corporation, Buffalo, N. Y., a Corporation of Pennsylvania.
Filed June 17, 1930. Serial No. 302,513. PUBLISHED AUGUST 26, 1930. Class 21.

277,153. FINGER RINGS. A. H. POND CO., INC., Syracuse, N. Y.
Filed June 16, 1930. Serial No. 302,473. PUBLISHED SEPTEMBER 2, 1930. Class 28.

277,154. LIGHT-SENSITIVE CELLS; RADIO DETECTING, RECTIFYING, AND AMPLIFYING TUBES. ARCTURUS RADIO TUBE COMPANY, Newark, N. J.
Filed June 13, 1930. Serial No. 302,367. PUBLISHED AUGUST 26, 1930. Class 21.

277,155. GASOLINE. TANK CAR STATIONS INCORPORATED, Buffalo, N. Y.
Filed June 9, 1930. Serial No. 302,290. PUBLISHED AUGUST 19, 1930. Class 15.

277,156. GASOLINE. TANK CAR STATIONS INCORPORATED, Buffalo, N. Y.
Filed June 9, 1930. Serial No. 302,289. PUBLISHED AUGUST 19, 1930. Class 15.

277,157. PUSH BUTTONS. THE YALE AND TOWNE MFG. CO., Stamford, Conn.
Filed June 5, 1930. Serial No. 302,203. PUBLISHED AUGUST 26, 1930. Class 21.

277,158. HUMIDORS FOR CIGARS, CIGARETTES, AND SMOKING TOBACCO. THE ROBBINS COMPANY, Attleboro, Mass.
Filed June 5, 1930. Serial No. 302,139. PUBLISHED SEPTEMBER 2, 1930. Class 8.

277,159. WATER-LEVEL GAGES. THE HOSPITAL SUPPLY COMPANY AND THE WATTERS LABORATORIES, CONSOLIDATED, New York, N. Y.
Filed July 15, 1930. Serial No. 303,506. PUBLISHED SEPTEMBER 2, 1930. Class 26.

277,160. AUTOMOTIVE VEHICLES—NAMELY, AUTOMOBILES, TRUCKS, FUNERAL CARS, BUSSES, AND TAXICABS, AND THEIR COMPONENT PARTS. THE STUDEBAKER CORPORATION, South Bend, Ind.
Filed July 11, 1930. Serial No. 303,404. PUBLISHED AUGUST 26, 1930. Class 19.

277,161. ELECTRICAL INSULATION COMPOUNDS AND FABRICS. THE HARVEL CORPORATION, Newark, N. J.
Filed June 4, 1930. Serial No. 302,161. PUBLISHED AUGUST 19, 1930. Class 21.

277,162. FRATERNITY BADGES AND LAPEL BUTTONS WHOLLY OR IN PART OF PRECIOUS METAL. SIGMA ALPHA EPSILON, Evanston, Ill.
Filed May 31, 1930. Serial No. 302,055. PUBLISHED AUGUST 26, 1930. Class 28.

277,163. NECKLACES, FINGER RINGS, AND BRACELETS. G. FOX & CO. INC., Hartford, Conn.
Filed May 31, 1930. Serial No. 301,886. PUBLISHED SEPTEMBER 2, 1930. Class 28.

277,164. LUBRICATING OIL. CLARKSON & FORD COMPANY, New York, N. Y.
Filed May 31, 1930. Serial No. 301,837. PUBLISHED SEPTEMBER 2, 1930. Class 15.

277,165. GASOLINE, KEROSENE, ILLUMINATING OILS, LUBRICATING OILS, AND LUBRICATING GREASES. THE CRYSTAL OIL WORKS, Oil City, Pa.
Filed May 24, 1930. Serial No. 301,161. PUBLISHED AUGUST 26, 1930. Class 15.

277,166. ELECTRIC INSULATORS, ELECTRIC JUNCTION BOXES, PANELS, AND BASES OF INSULATING MATERIAL. THE MERCHANT TRADING COMPANY, LIMITED, LONDON, England.
Filed May 22, 1930. Serial No. 301,050. PUBLISHED SEPTEMBER 2, 1930. Class 21.

277,167. ELECTRIC INSULATORS AND ELECTRIC JUNCTION BOXES, PANELS, AND BASES OF INSULATING MATERIAL. THE MERCHANT TRADING COMPANY, LIMITED, London, England.
Filed May 22, 1930. Serial No. 301,048. PUBLISHED SEPTEMBER 2, 1930. Class 21.

277,168. FINGER RINGS. GOLDMAN-KOLBER CO. INC., New York, N. Y.
Filed May 22, 1930. Serial No. 301,027. PUBLISHED AUGUST 19, 1930. Class 28.

277,169. TWO-WHEELED CAMPING TRAILERS. ARTHUR G. S. SHERMAN, doing business as The Covered Wagon Company, Detroit, Mich.
Filed July 11, 1930. Serial No. 303,387. PUBLISHED AUGUST 26, 1930. Class 19.

277,170. MOTOR BOATS. GEORGE F. CROUCH INCORPORATED, Middletown, Conn.
Filed July 10, 1930. Serial No. 303,319. PUBLISHED SEPTEMBER 2, 1930. Class 19.

277,171. DYES AND DYESTUFFS. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed July 7, 1930. Serial No. 303,169. PUBLISHED AUGUST 19, 1930. Class 6.

277,172. EXTRACTS TO BE USED FOR PREVENTION AND/OR TREATMENT OF DERMATITIS. THE CUTTER LABORATORY, Berkeley, Calif.
Filed July 7, 1930. Serial No. 303,167. PUBLISHED AUGUST 19, 1930. Class 6.

277,173. RADIO RECEIVING SETS, VACUUM OR ELECTRON TUBES, AND RADIO SPEAKERS. COLUMBIA RADIO CORPORATION, Chicago, Ill.
Filed July 7, 1930. Serial No. 303,163. PUBLISHED SEPTEMBER 2, 1930. Class 21.

277,174. POWDERED INSECTICIDE FOR PLANT LIFE. APEX PRODUCTS CORPORATION, Chicago, Ill.
Filed July 7, 1930. Serial No. 303,147. PUBLISHED AUGUST 19, 1930. Class 6.

277,175. ELECTRIC VACUUM CLEANER. M. S. WRIGHT COMPANY, doing business as Sweeper-Vac Company, Worcester, Mass.
Filed July 3, 1930. Serial No. 303,142. PUBLISHED SEPTEMBER 2, 1930. Class 21.

277,176. MEDICINAL PREPARATION FOR TORPIDITY OF THE LIVER. COSTILLA DARBY, doing business as C. A. Darby, Opp, Ala.
Filed June 30, 1930. Serial No. 302,997. PUBLISHED AUGUST 19, 1930. Class 6.

277,177. MATS MADE OF RUBBER AND/OR RUBBER AND FABRIC. THE LIMA CORD SOLE AND HEEL COMPANY, Lima, Ohio.
Filed June 28, 1930. Serial No. 302,952. PUBLISHED SEPTEMBER 2, 1930. Class 50.

277,178. MEDICINAL PREPARATION FOR INDIGESTION AND HEARTBURN. NATHAN B. PERRY, doing business as G. E. Medicine Company, Charlotte, N. C.
Filed June 27, 1930. Serial No. 302,909. PUBLISHED AUGUST 19, 1930. Class 6.

277,179. FLY REPELLENT AND SOOTHING WOUND DRESSING. AMERICAN TURPENTINE & TAR COMPANY, LTD., New Orleans, La.
Filed June 25, 1930. Serial No. 302,804. PUBLISHED AUGUST 19, 1930. Class 6.

277,180. PREPARATION FOR THE RELIEF OF INDIGESTION. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed June 24, 1930. Serial No. 302,786. PUBLISHED AUGUST 19, 1930. Class 6.

277,181. VAGINAL ANTISEPTIC TABLETS IN THEIR USE INDICATIVE OF LEUCORRHEA. WALTER C. EDEN, Denver, Colo.
Filed June 10, 1930. Serial No. 302,305. PUBLISHED AUGUST 19, 1930. Class 6.

277,182. CARDBOARD CARTONS. HERMETON LIMITED, London, England.
Filed June 5, 1930. Serial No. 302,181. PUBLISHED AUGUST 26, 1930. Class 2.

277,183. MEDICINAL AND PHARMACEUTICAL PREPARATIONS—NAMELY, CAMPHORATED OIL, WHITE PINE AND TAR, AND CASTOR OIL. CALIFORNIA MEDICINAL WINE CO., Los Angeles, Calif.
Filed May 29, 1930. Serial No. 301,569. PUBLISHED AUGUST 19, 1930. Class 6.

277,184. EFFERVESCENT SALTS. ITALIAN IMPORTING COMPANY, Spokane, Wash.
Filed May 27, 1930. Serial No. 301,344. PUBLISHED AUGUST 19, 1930. Class 6.

277,185. MEDICINAL TONIC. HILLIARD IODINE LABORATORIES, Chicago, Ill.
Filed May 27, 1930. Serial No. 301,348. PUBLISHED AUGUST 12, 1930. Class 6.

277,186. COMBINED MAGNIFIER AND PAPER WEIGHT. BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y.
Filed July 21, 1930. Serial No. 303,681. PUBLISHED SEPTEMBER 2, 1930. Class 26.

277,187. DRY-CLEANING SOAP. HUNTINGTON LABORATORIES, INC., Huntington, Ind.
Filed July 10, 1930. Serial No. 303,330. PUBLISHED AUGUST 26, 1930. Class 4.

277,188. ANOPERINEAL SUPPORTS. GEORGE STARR WHITE, Los Angeles, Calif.
Filed July 7, 1930. Serial No. 303,232. PUBLISHED AUGUST 26, 1930. Class 44.

277,189. NONALCOHOLIC, MALTLESS BEVERAGES CONTAINING ALL KNOWN VITAMINS, SOLD AS SOFT DRINKS. FAIRMONT REALTY CORPORATION, doing business as The Vitamin Company, Charlotte, N. C.
Filed July 3, 1930. Serial No. 303,103. PUBLISHED AUGUST 26, 1930. Class 45.

277,190. ABSORBENT COTTON. THE KENDALL COMPANY, Boston, Mass., and Chicago, Ill.
Filed June 27, 1930. Serial No. 302,901. PUBLISHED SEPTEMBER 2, 1930. Class 44.

277,191. LIQUID FLOOR WAX. STANDARD OIL COMPANY OF CALIFORNIA, Wilmington, Del., and San Francisco, Calif.
Filed June 23, 1930. Serial No. 302,750. PUBLISHED AUGUST 26, 1930. Class 16.

277,192. VARNISH. CHICAGO MICA COMPANY, Valparaiso, Ind., assignor to Continental Diamond Fibre Company, Newark, Del.
Filed June 23, 1930. Serial No. 302,724. PUBLISHED SEPTEMBER 2, 1930. Class 16.

277,193. SANITARY PACKS OR SANITARY NAPKINS. LANAIR COMPANY, Chicago, Ill.
Filed June 19, 1930. Serial No. 302,582. PUBLISHED AUGUST 26, 1930. Class 44.

277,194. VARNISHES AND LACQUERS. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany.
Filed June 18, 1930. Serial No. 302,537. PUBLISHED AUGUST 26, 1930. Class 16.

277,195. PHENOL-FORMALDEHYDE-RESIN VARNISH. INTERNATIONAL COMBUSTION TAR & CHEMICAL CORPORATION, New York, N. Y.
Filed June 18, 1930. Serial No. 302,402. PUBLISHED AUGUST 26, 1930. Class 16.

277,196. ADHESIVE PLASTER IN THE NATURE OF A BANDAGE, ABSORBENT COTTON, ETC. JAMES W. SPENCER, doing business as Consolidated Drug Corp., New Orleans, La., assignor to Consolidated Drug Corporation, New Orleans, La., a Corporation of Louisiana.
Filed June 7, 1930. Serial No. 302,258. PUBLISHED SEPTEMBER 2, 1930. Class 44.

277,197. BEVERAGES AND SYRUPS AND EXTRACTS USED IN MAKING THE SAME. JOE L. REED, Waco, Tex.
Filed June 6, 1930. Serial No. 302,222. PUBLISHED AUGUST 26, 1930. Class 45.

277,198. PLIABLE WOOD COMPOSITION IN THE NATURE OF PUTTY. CHEMICAL WOOD PRODUCTS COMPANY, Portland, Oreg.
Filed May 29, 1930. Serial No. 301,577. PUBLISHED SEPTEMBER 2, 1930. Class 16.

277,199. SOAPS OF ALL KINDS. THE M. WERK COMPANY, St. Bernard, Ohio.
Filed May 28, 1930. Serial No. 301,538. PUBLISHED AUGUST 26, 1930. Class 4.

277,200. WHEAT FLOUR. KING MIDAS MILL COMPANY, doing business as Gardner Mills, Minneapolis, Minn.
Filed May 22, 1930. Serial No. 301,040. PUBLISHED AUGUST 26, 1930. Class 46.

277,201. REFRIGERATING PLANTS AND APPARATUS BOTH STATIONARY AND TRANSPORTABLE. "ALTEK," SOCIÉTÉ ANONYME COMPAGNIE D'ETUDE ET D'EXPLOITATION D'APPAREILS FRIGORIFIQUES POUR LES TRANSPORTS, Antwerp, Belgium.
Filed July 19, 1930. Serial No. 303,619. PUBLISHED AUGUST 26, 1930. Class 31.

277,202. SCYTHESTONES, WHETSTONES, AND ABRASIVE SHARPENING STONES. PIKE MANUFACTURING COMPANY, Pike, N. H.
Filed July 16, 1930. Serial No. 303,543. PUBLISHED SEPTEMBER 2, 1930. Class 4.

277,203. SCYTHESTONES, WHETSTONES, AND ABRASIVE SHARPENING STONES. PIKE MANUFACTURING COMPANY, Pike, N. H.
Filed July 16, 1930. Serial No. 303,544. PUBLISHED SEPTEMBER 2, 1930. Class 4.

277,204. TOILET SOAP. PLOUGH, INC., Memphis, Tenn.
Filed July 14, 1930. Serial No. 303,488. PUBLISHED SEPTEMBER 2, 1930. Class 4.

277,205. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES, SOLD AS SOFT DRINKS AND SIRUPS AND EXTRACTS FOR MAKING THE SAME AND FOR SPRING WATER. J. WEINER & CO., INC., Woodbridge, N. J.
Filed July 10, 1930. Serial No. 303,359. PUBLISHED AUGUST 26, 1930. Class 45.

277,206. NONINTOXICATING CEREAL MALT BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT OF ALCOHOL BY VOLUME. THE F. & M. SCHAEFER BREWING CO., Brooklyn, N. Y.
Filed July 10, 1930. Serial No. 303,349. PUBLISHED AUGUST 26, 1930. Class 48.

277,207. CANDY. TROOPER CANDY CO., INC., Boston, Mass.
Filed July 9, 1930. Serial No. 303,308. PUBLISHED AUGUST 26, 1930. Class 46.

277,208. COFFEE. HARD & RAND, INC., New York, N. Y.
Filed July 9, 1930. Serial No. 303,287. PUBLISHED SEPTEMBER 2, 1930. Class 46.

277,209. COFFEE. HARD & RAND, INC., New York, N. Y.
Filed July 9, 1930. Serial No. 303,286. PUBLISHED SEPTEMBER 2, 1930. Class 46.

277,210. SLAG PUZZOLAN CEMENT. CHENEY LIME & CEMENT COMPANY, Birmingham, Ala.
Filed June 28, 1930. Serial No. 302,929. PUBLISHED SEPTEMBER 2, 1930. Class 12.

277,211. CHEWING GUM. AMERICAN CHICLE COMPANY Long Island City, N. Y.
Filed June 27, 1930. Serial No. 302,882. PUBLISHED AUGUST 26, 1930. Class 46.

277,212. CONSTRUCTION CEMENT. NATIONAL PORTLAND CEMENT COMPANY, Dallas and Houston, Tex., and Los Angeles, Calif.
Filed June 23, 1930. Serial No. 302,742. PUBLISHED SEPTEMBER 2, 1930. Class 12.

277,213. OAK AND BEECH FLOORING. NASHVILLE HARDWOOD FLOORING COMPANY, Nashville, Tenn.
Filed June 23, 1930. Serial No. 302,741. PUBLISHED SEPTEMBER 2, 1930. Class 12.

277,214. FRESH CITRUS FRUITS, FRESH DECIDUOUS FRUITS, FRESH VEGETABLES, FRESH MELONS, FRESH BERRIES, DRIED FRUITS, FRESH GRAPES. S. J. GALLAGHER, Brawley and Los Angeles, Calif.
Filed June 20, 1930. Serial No. 302,631. PUBLISHED AUGUST 26, 1930. Class 46.

277,215. CANNED FRUITS, CANNED VEGETABLES, FRESH CITRUS FRUITS, FRESH DICIDUOUS FRUITS, FRESH VEGETABLES, DRIED FRUITS CANNED FISH. BALFOUR GUTHRIE & COMPANY, San Francisco, Calif.
Filed June 20, 1930. Serial No. 302,622. PUBLISHED AUGUST 26, 1930. Class 46.

277,216. CANNED FRUITS, CANNED VEGETABLES, FRESH CITRUS FRUITS, FRESH DECIDUOUS FRUITS, FRESH VEGETABLES, DRIED FRUITS, CANNED FISH. BALFOUR GUTHRIE & COMPANY, San Francisco, Calif.
Filed June 20, 1930. Serial No. 302,617. PUBLISHED AUGUST 26, 1930. Class 46.

277,217. CANNED FRUITS, CANNED VEGETABLES, CANNED FISH, DRIED FRUITS, FRESH CITRUS FRUITS, FRESH DECIDUOUS FRUITS, FRESH VEGETABLES. BALFOUR GUTHRIE & COMPANY, San Francisco, Calif.
Filed June 20, 1930. Serial No. 302,616. PUBLISHED AUGUST 26, 1930. Class 46.

277,218. COATS AND BREECHES, KNICKERS, ETC. HERMANN E. ULLMAN, Warrenton, Va.
Filed June 13, 1930. Serial No. 302,421. PUBLISHED AUGUST 12, 1930. Class 39.

277,219. COFFEE. HARD & RAND, INC., New York, N. Y.
Filed June 11, 1930. Serial No. 302,322. PUBLISHED SEPTEMBER 2, 1930. Class 46.

277,220. CLOSET LINING, FLOORING, SHELVING, AND QUARTER ROUND. GEORGE C. BROWN & COMPANY, Memphis, Tenn.
Filed June 4, 1930. Serial No. 302,158. PUBLISHED SEPTEMBER 2, 1930. Class 12.

277,221. LIQUID ASPHALT, A PREPARATION FOR PAVING AND THE LIKE. LEON R. MACKENZIE, Des Moines, Iowa.
Filed May 31, 1930. Serial No. 301,961. PUBLISHED SEPTEMBER 2, 1930. Class 12.

277,222. PORTABLE MANUFACTURED BUILDINGS. ECONOMY HOUSING COMPANY, Onawa, Iowa.
Filed May 28, 1930. Serial No. 301,421. PUBLISHED SEPTEMBER 2, 1930. Class 12.

277,223. LIVE BABY CHICKS. THE CLINTON HATCHERY, Clinton, Mo.
Filed May 24, 1930. Serial No. 301,158. PUBLISHED AUGUST 26, 1930. Class 46.

277,224. CANDY. CHASE CANDY COMPANY, doing business as Chases, St. Joseph, Mo.
Filed July 10, 1930. Serial No. 303,318. PUBLISHED SEPTEMBER 2, 1930. Class 46.

277,225. CANNED FRUITS, CANNED VEGETABLES. KINGS COUNTY PACKING COMPANY, Oakland, Calif.
Filed July 16, 1930. Serial No. 303,537. PUBLISHED SEPTEMBER 2, 1930. Class 46.

277,226. HOSIERY. WOLIN-FEINBERG, INC., New York, N. Y.
Filed July 10, 1930. Serial No. 303,360. PUBLISHED AUGUST 26, 1930. Class 39.

277,227. BROOMS AND MOPS. SUND MOP AND BROOM CLEANER CO., Santa Rosa, Calif.
Filed July 19, 1930. Serial No. 303,666. PUBLISHED SEPTEMBER 2, 1930. Class 29.

277,228. PACKAGED CIGARS. MAX SCHWARZ MANUFACTURER OF LA PRIMADORA HAVANA CIGARS, LTD., New York, N. Y.
Filed July 17, 1930. Serial No. 303,581. PUBLISHED SEPTEMBER 2, 1930. Class 17.

277,229. RUBBERIZED FABRICS—I. E., FABRICS TREATED WITH A RUBBER COATING FOR USE IN CONNECTION WITH VARIOUS KINDS OF MERCHANDISE. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed July 10, 1930. Serial No. 303,323. PUBLISHED AUGUST 26, 1930. Class 50.

277,230. DRY MATS FOR USE IN THE STEREOTYPING PROCESS OF PRINTING. MORLEY BUTTON MANUFACTURING COMPANY, Portland, Me., and Portsmouth, N. H.
Filed July 8, 1930. Serial No. 303,252. PUBLISHED AUGUST 26, 1930. Class 50.

277,231. DRY MATS FOR USE IN THE STEREOTYPING PROCESS OF PRINTING. MORLEY BUTTON MANUFACTURING COMPANY, Portland, Me., and Portsmouth, N. H.
Filed July 8, 1930. Serial No. 303,251. PUBLISHED AUGUST 26, 1930. Class 50.

277,232. GENERAL TONIC. COSTILLA DARBY, Opp, Ala.
Filed June 30, 1930. Serial No. 302,996. PUBLISHED AUGUST 12. 1930. Class 6.

277,233. TOOTH PASTE, FACE POWDER, COLD CREAM, VANISHING CREAM, AND FACE LOTION. COLGATE-PALMOLIVE-PEET COMPANY, Chicago, Ill.
Filed June 30, 1930. Serial No. 302,993. PUBLISHED AUGUST 12, 1930. Class 6.

277,234. ANTISEPTIC AND ANALGESIC OINTMENT. ABRAHAM MAGOULIS, doing business as Royal Drug Co., Bronx, N. Y.
Filed June 28, 1930. Serial No. 302,957. PUBLISHED AUGUST 12, 1930. Class 6.

277,235. ETHYL ACETATE, DIETHYL OXALATE, ABSOLUTE ETHER, AND CELLULOSE ACETATE. U. S. INDUSTRIAL CHEMICAL CO. INCORPORATED, Baltimore, Md., and New York, N. Y.
Filed June 27, 1930. Serial No. 302,920. PUBLISHED AUGUST 12, 1930. Class 6.

277,236. CELLULOSE ACETATE. U. S. INDUSTRIAL CHEMICAL CO. INCORPORATED, Baltimore, Md., and New York, N. Y.
Filed June 27, 1930. Serial No. 302,919. PUBLISHED AUGUST 12, 1930. Class 6.

277,237. PADS. PIONEER PAPER STOCK COMPANY, Minneapolis, Minn.
Filed June 27, 1930. Serial No. 302,910. PUBLISHED AUGUST 26, 1930. Class 50.

277,238. DUSTERS. D. S. WALTON & COMPANY, New York, N. Y.
Filed June 21, 1930. Serial No. 302,708. PUBLISHED SEPTEMBER 2, 1930. Class 29.

277,239. ASTRINGENT POWDER. HYMAN SILVER, doing business as Styptine Products, Brooklyn, N. Y.
Filed June 21, 1930. Serial No. 302,697. PUBLISHED AUGUST 12, 1930. Class 6.

277,240. PREPARATION TO BE TAKEN INTERNALLY IN THE TREATMENT OF MUSCULAR ACHES AND PAINS, NEURALGIA, HEADACHES, HEAD COLDS, AND PERIODIC PAINS. GUARDIAN HEALTH PRODUCTS CO., INC., Atlanta, Ga.
Filed June 11, 1930. Serial No. 302,317. PUBLISHED AUGUST 12, 1930. Class 6.

277,241. CUSHIONING MATERIAL FOR USE UNDER FLOOR COVERINGS. THE CELOTEX COMPANY, Chicago, Ill.
Filed June 11, 1930. Serial No. 302,314. PUBLISHED AUGUST 26, 1930. Class 50.

277,242. MEDICAL COMPOSITION ADOPTED FOR THE TREATMENT OF CANCER, TUMOR, ULCER, AND FISTULA GROWTHS. THOMAS H. BANKS, doing business as Banks' Products Co., Los Angeles, Calif.
Filed June 10, 1930. Serial No. 302,298. PUBLISHED AUGUST 12, 1930. Class 6.

277,243. FERMENT. JAMES H. CUMMINGS, doing business as American Ferment Company, Buffalo, N. Y.
Filed June 6, 1930. Serial No. 302,212. PUBLISHED AUGUST 12, 1930. Class 6.

277,244. BALM PREPARATION FOR PILES, BURNS, SUNBURN, CHAPPED OR CHAFED SKIN, SCRATCHES, INSECT BITES, TIRED FEET, TO RELIEVE BUNIONS. KNOX COMPANY, Kansas City, Mo.
Filed May 31, 1930. Serial No. 301,951. PUBLISHED AUGUST 12, 1930. Class 6.

277,245. COPYING, INDELIBLE, AND WRITING INKS; DRAWING INK, STAMP-PAD INK, MARKING INK, NUMBERING-MACHINE INK, SHOW-CARD INK, AND STAMP PAD. S. S. STAFFORD, INC., New York, N. Y.
Filed May 26, 1930. Serial No. 301,310. PUBLISHED SEPTEMBER 2, 1930. Class 11.

277,246. FOUNTAINS, FEEDERS, CANOPY BROODERS, BATTERY BROODERS, BROODER HOUSES, LAYING HOUSES, RANGE SHELTERS, CHICKEN ROOSTS, HENS' NESTS, OAT SPROUTERS, AND INCUBATORS. BROWER MANUFACTURING COMPANY, INC., Quincy, Ill.
Filed May 26, 1930. Serial No. 301,240. PUBLISHED AUGUST 26, 1930. Class 50.

277,247. MIXTURE AND TOPPING FOR BAKERY AND CONFECTIONERY GOODS. BEAR-STEWART CO., Chicago, Ill.
Filed November 23, 1929. Serial No. 292,790. PUBLISHED AUGUST 26, 1930. Class 46.

277,248. MEDICINAL SOLUTION CONTAINING PENETRATING OIL FOR BOILS, CUTS, FELONS, INGROWN TOENAILS, CORNS, SPLINTERS, AND OTHER MINOR INFECTIONS. SAMUEL A. RAICER, doing business as Won-Sol Chemical Co., Bayonne, N. J.
Filed October 29, 1929. Serial No. 291,738. PUBLISHED SEPTEMBER 2, 1930. Class 6.

277,249. HAND WHEEL FOR CAR BRAKES. UNIVERSAL DRAFT GEAR ATTACHMENT CO., Chicago, Ill.
Filed October 14, 1929. Serial No. 291,071. PUBLISHED SEPTEMBER 2, 1930. Class 19.

277,250. OIL EXTRACTED FROM FINE NEEDLES. THE GARDNER PINE NEEDLE PRODUCTS COMPANY, Sharon Springs, N. Y.
Filed September 28, 1929. Serial No. 290,351. PUBLISHED AUGUST 12, 1930. Class 6.

277,251. CHILDREN'S COATS AND ONE AND TWO PIECE SUITS. PFOHL & DINGENS, Buffalo, N. Y.
Filed September 17, 1929. Serial No. 280,902. PUBLISHED AUGUST 26, 1930. Class 39.

277,252. AUTOMOBILES, MOTOR CYCLES AND BICYCLES, AIRPLANES AND HYDROPLANES, AIRSHIPS OF THE SEMIRIGID AND RIGID SYSTEM; STEAM, SAILING, ROWING, AND MOTOR BOATS. DÜRENER METALLWERKE AKTIEN-GESELLSCHAFT, Duren, Germany.
Filed September 6. 1929. Serial No. 289,399. PUBLISHED SEPTEMBER 2, 1930. Class 19.

277,253. MAIL-ORDER CATALOG ISSUED MONTHLY. CO-OP ELECTRIC SUPPLY CO., Chicago, Ill.
Filed August 19, 1929. Serial No. 288,696. PUBLISHED SEPTEMBER 2, 1930. Class 38.

277,254. BLOOMERS, PANTIES, BLOOMER AND BRASSIÈRE COMBINATIONS, NIGHTGOWNS, PAJAMAS, SLIPS, AND VESTS FOR WOMEN AND YOUNG LADIES. DURAWEAR CORPORATION, Minneapolis, Minn.
Filed July 25, 1929. Serial No. 287,655. PUBLISHED AUGUST 26, 1930. Class 39.

277,255. SHEET-METAL PAILS, MILK CANS, DAIRY PAILS, CREAM CANS, AND RADIATOR-FILLING CANS. WINONA METAL PRODUCTS COMPANY, Winona, Minn.
Filed July 23, 1929. Serial No. 287,554. PUBLISHED SEPTEMBER 2, 1930. Class 2.

277,256. LIGHT-MEASURING APPARATUS FOR USE IN CONNECTION WITH MOTION-PICTURE PHOTOGRAPHY. GRAPHOMETER COMPANY INCORPORATED, New York, N. Y.
Filed July 15, 1929. Serial No. 287,140. PUBLISHED SEPTEMBER 2, 1930. Class 26.

277,257. HOSIERY FOR SHORT WOMEN WITH AVERAGE LEG MEASUREMENTS, WOMEN OF AVERAGE HEIGHT WITH SLIM LEGS, OR THE GROWING GIRL. BROWN DURRELL CO., Boston, Mass., and New York, N. Y.
Filed July 10, 1929. Serial No. 286,863. PUBLISHED AUGUST 26, 1930. Class 39.

277,258. GRINDING AND PULVERIZING MACHINES FOR GRINDING CHEMICALS, COLORS, DYES, COAL, CLAYS, ORES, AND OTHER MINERALS, FOODS, SPICES, DRUGS, ETC. PULVERIZING MACHINERY COMPANY, New York, N. Y.
Filed July 9, 1929. Serial No. 286,837. PUBLISHED AUGUST 26, 1930. Class 23.

277,259. LIP-STICK PENCIL OR CRAYON, HAIR TONIC, SHAMPOO, ETC. ARCHIE R. EVERSON, Newark, N. J.
Filed July 9, 1929. Serial No. 286,821. PUBLISHED AUGUST 19, 1930. Class 6.

277,260. RADIO RECEIVING SETS. BALKEIT RADIO COMPANY, North Chicago, Ill.
Filed July 1, 1929. Serial No. 286,416. PUBLISHED AUGUST 26, 1930. Class 21.

277,261. POULTRY MASH FEED. BIRDSEY FLOUR MILLS, Macon, Ga.
Filed July 10, 1930. Serial No. 303,316. PUBLISHED AUGUST 26, 1930. Class 46.

277,262. METAL PLUMBING AND STEAM-FITTING VALVES AND PARTS THEREOF—NAMELY, BUSHINGS AND BEARINGS. THE EDWARD VALVE AND MANUFACTURING CO., East Chicago, Ind.
Filed July 7, 1930. Serial No. 303,172. PUBLISHED SEPTEMBER 2, 1930. Class 13.

277,263. MEASURING DEVICE FOR DETERMINING THE PERCENTAGE OF FAT OR OILS IN A SUBSTANCE CONTAINING THE SAME. SCHWARZ LABORATORIES, INC., New York, N. Y.
Filed June 27, 1930. Serial No. 302,912. PUBLISHED SEPTEMBER 2, 1930. Class 26.

277,264. COOKIES. UNITED BISCUIT COMPANY OF AMERICA, doing business as Hekman Biscuit Co., Chicago, Ill.
Filed June 23, 1930. Serial No. 302,754. PUBLISHED AUGUST 26, 1930. Class 46.

277,265. BRAKE LINING. LAHER AUTO SPRING CO., INC., Oakland, Calif.
Filed June 23, 1930. Serial No. 302,733. PUBLISHED SEPTEMBER 2, 1930. Class 35.

277,266. BURIAL VAULTS. BENISCH BROTHERS, INC., Brooklyn, N. Y.
Filed June 20, 1930. Serial No. 302,663. PUBLISHED AUGUST 26, 1930. Class 2.

277,267. ESCUTCHEONS, DOOR HANDLES, DOOR PULLS, ETC. THE YALE AND TOWNE MFG. CO., Stamford, Conn.
Filed June 5, 1930. Serial No. 302,204. PUBLISHED AUGUST 26, 1930. Class 13.

277,268. SUITCASE AND TRUNK HARDWARE, NOT INCLUDING LOCKS. THE SEYMOUR PRODUCTS COMPANY, Seymour, Conn.
Filed June 3, 1930. Serial No. 302,154. PUBLISHED SEPTEMBER 2, 1930. Class 13.

277,269. LAWN SPRINKLERS. THE NATIONAL LAWN SPRINKLER CORPORATION, Glendale, Calif.
Filed May 31, 1930. Serial No. 301,995. PUBLISHED AUGUST 26, 1930. Class 13.

277,270. DENTAL RUBBER. RELIANCE DENTAL MANUFACTURING COMPANY, Chicago, Ill.
Filed May 29, 1930. Serial No. 301,703. PUBLISHED AUGUST 26, 1930. Class 44.

277,271. BOATS—NAMELY, PLEASURE YACHTS. DAWN BOAT CORPORATION, New York, N. Y.
Filed May 28, 1930. Serial No. 301,416. PUBLISHED AUGUST 26, 1930. Class 19.

277,272. BOLTS AND RIVETS. PACIFIC COAST STEEL CORPORATION, Los Angeles and Huntington Park, Calif.
Filed May 24, 1930. Serial No. 301,202. PUBLISHED AUGUST 26, 1930. Class 13.

277,273. METALLIC STRIPS USED IN THE FORMATION OF TRENCHES IN DENTURES. CARL S. ELLIS, Chicago, Ill.
Filed May 22, 1930. Serial No. 301,018. PUBLISHED AUGUST 26, 1930. Class 44.

277,274. PREPARATION FOR THE RELIEF OF COLDS, INFLAMMATIONS, RHEUMATIC AND NEURALGIC PAINS. BEUGEN'S INC., Minneapolis, Minn.
Filed July 21, 1930. Serial No. 303,683. PUBLISHED SEPTEMBER 2, 1930. Class 6.

277,275. AUTOMOTIVE VEHICLES—NAMELY, AUTOMOBILES, TRUCKS, FUNERAL CARS, BUSSES, AND TAXICABS, AND THEIR COMPONENT PARTS. THE STUDEBAKER CORPORATION, South Bend, Ind.
Filed July 11, 1930. Serial No. 303,405. PUBLISHED AUGUST 26, 1930. Class 19.

277,276. POULTRY SCRATCH FEED. BIRDSEY FLOUR MILLS, Macon, Ga.
Filed July 10, 1930. Serial No. 303,315. PUBLISHED AUGUST 26, 1930. Class 46.

277,277. ETCHING BASKETS, ETCHING FRAMES, AND DIPPING BASKETS. AMERICAN HARD RUBBER COMPANY, Hempstead and New York, N. Y.
Filed July 11, 1930. Serial No. 303,364. PUBLISHED AUGUST 26, 1930. Class 2.

277,278. DRY-CLEANING SOAP. HUNTINGTON LABORATORIES, INC., Huntington, Ind.
Filed July 10, 1930. Serial No. 303,329. PUBLISHED AUGUST 26, 1930. Class 4.

277,279. CAKE. DRAKE BAKERIES INCORPORATED, Brooklyn, N. Y.
Filed July 10, 1930. Serial No. 303,322. PUBLISHED AUGUST 26, 1930. Class 46.

277,280. CAKE. DRAKE BAKERIES INCORPORATED, Brooklyn, N. Y.
Filed July 10, 1930. Serial No. 303,321. PUBLISHED AUGUST 26, 1930. Class 46.

277,281. MEDICATED CORN PLASTERS. ALLCOCK MANUFACTURING CO., Ossining, N. Y.
Filed June 24, 1929. Serial No. 286,012. PUBLISHED AUGUST 19, 1930. Class 6.

277,282. PILLS HAVING LAXATIVE EFFECT AND MEDICATED PLASTERS. ALLCOCK MANUFACTURING CO., Ossining, N. Y.
Filed June 24, 1929. Serial No. 286,009. PUBLISHED AUGUST 19, 1930. Class 6.

277,283. PILLS HAVING LAXATIVE EFFECT. ALLCOCK MANUFACTURING CO., Ossining, N. Y.
Filed June 24, 1929. Serial No. 286,007. PUBLISHED AUGUST 19, 1930. Class 6.

277,284. PHONOGRAPHS ADAPTED FOR COMBINATION WITH ELECTRIC RADIO RECEIVING SETS. GRIGSBY-GRUNOW COMPANY, Chicago, Ill.
Filed June 21, 1929. Serial No. 285,914. PUBLISHED AUGUST 26, 1930. Class 36.

277,285. PERFUME EXTRACTS, TOILET WATERS, PASTES, ETC. PARFUMERIE ROGER ET GALLET, SOCIÉTÉ ANONYME, Paris, France.
Filed June 19, 1929. Serial No. 285,788. PUBLISHED AUGUST 12, 1930. Class 6.

277,286. ELECTRICAL SUPPLIES FOR AUTOMOBILES. NOAH P. SHER, Rochester, N. Y.
Filed June 18, 1929. Serial No. 285,753. PUBLISHED SEPTEMBER 2, 1930. Class 21.

277,287. SILVERWARE AND CUTLERY BOXES AND COFFEE-RETAINING BAGS FOR COFFEE URNS. THE FIREBRAND KITCHEN EQUIPMENT COMPANY, New York, N. Y.; Cincinnati, Ohio; and Chicago, Ill.
Filed June 13, 1929. Serial No. 285,503. PUBLISHED AUGUST 26, 1930. Class 2.

277,288. PERFUMES, TOILET WATER, FACE POWDER, TALCUM POWDER, ROUGES FOR THE SKIN AND LIPS, FACE CREAMS, BATH SALTS, SACHETS, BRILLIANTINE, LOTION FOR THE SKIN AND HAIR. SOCIETE ANONYME JEAN PATOU, Paris, France.
Filed July 19, 1930. Serial No. 303,661. PUBLISHED SEPTEMBER 2, 1930. Class 6.

277,289. PREPARATION FOR INTERNAL USE FOR THE PURPOSE OF FACILITATING THE TAKING OF X-RAY PICTURES OF INTERNAL ORGANS. SCHERING-KAHLBAUM A. G., Berlin, Germany.
Filed July 19, 1930. Serial No. 303,659. PUBLISHED SEPTEMBER 2, 1930. Class 6.

277,290. PORTABLE CASES FOR PACKING, STORING, AND TRANSPORTING FURNITURE AND MERCHANDISE. NEPTUNE STORAGE VAN CO., INC., New Rochelle, N. Y.
Filed July 18, 1930. Serial No. 303,609. PUBLISHED SEPTEMBER 2, 1930. Class 2.

277,291. MEN'S ATHLETIC UNDERWEAR AND NIGHT WEAR—NAMELY, UNION SUITS, DRAWERS, PAJAMAS, AND NIGHTSHIRTS MADE OF WOVEN TEXTILES. SEXTON MANUFACTURING COMPANY, Fairfield, Ill.
Filed July 7, 1930. Serial No. 303,215. PUBLISHED AUGUST 26, 1930. Class 39.

277,292. HOSIERY. THE LION CORPORATION, Buffalo, N. Y.
Filed July 7, 1930. Serial No. 303,193. PUBLISHED AUGUST 26, 1930. Class 39.

277,293. HOSIERY FOR WOMEN. MAY HOSIERY MILLS, INC., Burlington, N. C.
Filed June 28, 1930. Serial No. 302,958. PUBLISHED AUGUST 26, 1930. Class 39.

277,294. SWEATERS FOR MEN, WOMEN, AND CHILDREN. CARSON PIRIE SCOTT AND COMPANY, Chicago, Ill.
Filed June 28, 1930. Serial No. 302,928. PUBLISHED AUGUST 26, 1930. Class 39.

277,295. INSECTICIDE HAVING THE PROPERTIES OF A DEODORANT AND CLEANSING AGENT. THE PEROLIN COMPANY OF AMERICA, Chicago, Ill.
Filed June 26, 1930. Serial No. 302,872. PUBLISHED SEPTEMBER 2, 1930. Class 6.

277,296. PERFUMES AND FACE POWDER. VEOLAY, INC., New York, N. Y.
Filed June 25, 1930. Serial No. 302,841. PUBLISHED AUGUST 26, 1930. Class 6.

277,297. METAL REFLECTORS. JOHN P. WOLLARD, doing business as Da-Light Floodlight Co., Kansas City, Mo.
Filed June 23, 1930. Serial No. 302,758. PUBLISHED SEPTEMBER 2, 1930. Class 34.

277,298. MALT SYRUP. BEN-BURK, INCORPORATED, Boston, Mass.
Filed June 16, 1930. Serial No. 302,457. PUBLISHED AUGUST 26, 1930. Class 46.

277,299. HUB CAPS. THE STUDEBAKER CORPORATION, South Bend, Ind.
Filed June 13, 1930. Serial No. 302,420. PUBLISHED AUGUST 26, 1930. Class 19.

277,300. HUB CAPS. THE STUDEBAKER CORPORATION, South Bend, Ind.
Filed June 13, 1930. Serial No. 302,419. PUBLISHED AUGUST 26, 1930. Class 19.

277,301. CANNED FRUITS, CANNED VEGETABLES, CANNED FISH, ETC. YELLOW FRONT STORES, INC., Chicago, Ill.
Filed May 31, 1930. Serial No. 302,119. PUBLISHED AUGUST 26, 1930. Class 46.

277,302. GUN COATS, VESTS, TROUSERS, AND BREECHES FOR MEN AND BOYS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed May 31, 1930. Serial No. 302,040. PUBLISHED AUGUST 26, 1930. Class 39.

277,303. MEN'S AND BOYS' DRESS AND NEGLIGEE SHIRTS. WM. T. KNOTT COMPANY, INC., New York, N. Y.
Filed May 31, 1930. Serial No. 301,950. PUBLISHED AUGUST 26, 1930. Class 39.

277,304. SELF-HEATING CHARCOAL FLAT AND SAD IRONS AND PARTS THEREOF, INCLUDING DAMPERS. COLEBROOKDALE IRON COMPANY, Colebrookdale, Pa.
Filed May 31, 1930. Serial No. 301,848. PUBLISHED AUGUST 26, 1930. Class 24.

277,305. FACE POWDER, ROUGE, LIP STICK, ETC. HELEN BROOKS, INC., New York, N. Y.
Filed May 31, 1930. Serial No. 301,800. PUBLISHED AUGUST 19, 1930. Class 6.

277,306. COAL AND WOOD HEATING STOVES, FURNACES, COOKING STOVES, AND RANGES. JOHN GEORGE EMRICH, Columbus, Ohio.
Filed May 26, 1930. Serial No. 301,253. PUBLISHED SEPTEMBER 2, 1930. Class 34.

277,307. LIQUID SHAMPOO. FRANK W. BARBER, doing business as Frank W. Barber Company, Stockton, Calif.
Filed May 24, 1930. Serial No. 301,150. PUBLISHED AUGUST 26, 1930. Class 6.

277,308. WRENCHES, WRENCH SETS, WRENCH SOCKETS, AND TOOL HANDLES. J. H. WILLIAMS & Co., Buffalo, N. Y.
Filed July 15, 1930. Serial No. 303,522. PUBLISHED SEPTEMBER 2, 1930. Class 23.

277,309. WRENCHES, WRENCH SETS, WRENCH SOCKETS, AND TOOL HANDLES. J. H. WILLIAMS & Co., Buffalo, N. Y.
Filed July 15, 1930. Serial No. 303,521. PUBLISHED SEPTEMBER 2, 1930. Class 23.

277,310. PRINTERS' SUPPLIES, NAMELY, CHASES, GALLEYS, LEAD AND RULE CUTTERS, MITERING MACHINES, BENCH SAWS, TRIMMERS, AND NEWSPAPER MAKE-UP TRUCKS. AMERICAN STEEL CHASE CO., New York, N. Y.
Filed July 9, 1930. Serial No. 303,268. PUBLISHED SEPTEMBER 2, 1930. Class 23.

277,311. VENDING MACHINES FOR USE IN VENDING PACKAGED MERCHANDISE. ROY B. KEEHNEL, doing business as Merchandising Sales Machine Co., Independence, Mo.
Filed July 8, 1930. Serial No. 303,250. PUBLISHED AUGUST 26, 1930. Class 23.

277,312. CUTLERY—NAMELY, RAZORS AND BARBER SHEARS. PETER J. MICHELS, New York, N. Y.
Filed July 7, 1930. Serial No. 303,199. PUBLISHED AUGUST 26, 1930. Class 28.

277,313. HUMIDIFIER FOR INTERNAL-COMBUSTION ENGINES. INTERNAL COMBUSTION ATOMIZERS COMPANY, Inc., Fall River, Mass.
Filed July 3, 1930. Serial No. 303,114. PUBLISHED AUGUST 26, 1930. Class 23.

277,314. BAMBOO RAKES. GEORGE W. MCGUIRE, doing business as Yamade Co., New York, N. Y.
Filed June 26, 1930. Serial No. 302,868. PUBLISHED AUGUST 26, 1930. Class 23.

277,315. ELECTRICALLY-OPERATED INFORMATION TABULATING AND AUTOMATIC LIST-SELECTING MACHINES. GILE MERCHANDISING BUREAU, Minneapolis, Minn.
Filed June 23, 1930. Serial No. 302,729. PUBLISHED AUGUST 26, 1930. Class 21.

277,316. CASING-PULLING MACHINES, PUMP-TUBING DRAINS, HYDRAULIC PLUGS, ETC. THE THRIFT CORPORATION, Houston, Tex.
Filed June 21, 1930. Serial No. 302,702. PUBLISHED AUGUST 26, 1930. Class 28.

277,317. WELL DRILLING TOOLS AND EQUIPMENT. BAASH-ROSS TOOL COMPANY, INCORPORATED, Los Angeles, Calif.
Filed June 18, 1930. Serial No. 302,523. PUBLISHED AUGUST 26, 1930. Class 23.

277,318. BURIAL CASKETS AND CASES THEREFOR. JOSEPH S. WATERMAN & SONS, INC., Boston, Mass.
Filed June 16, 1930. Serial No. 302,501. PUBLISHED AUGUST 26, 1930. Class 2.

277,319. CARD TABLES. THE FRANKLIN-TURNER CO., Chicago, Ill.
Filed June 14, 1930. Serial No. 302,432. PUBLISHED AUGUST 26, 1930. Class 32.

277,320. TRAYS OF SYNTHETIC RESIN AND WOOD FIBER. INTERNATIONAL COMBUSTION TAR & CHEMICAL CORPORATION, New York, N. Y.
Filed June 13, 1930. Serial No. 302,403. PUBLISHED SEPTEMBER 2, 1930. Class 2.

277,321. POWER SHOVELS, DRAG SHOVELS, CRANES, AND PARTS THEREOF. THE OHIO POWER SHOVEL COMPANY, Lima, Ohio.
Filed June 7, 1930. Serial No. 302,255. PUBLISHED SEPTEMBER 2, 1930. Class 23.

277,322. BOXES AND CRATES, SAID BOXES AND CRATES EMBODYING IN THEIR CONSTRUCTION WOOD, FIBRE BOARD, OR LIKE MATERIALS AND BEING ADAPTED FOR USE AS SHIPPING CONTAINERS. GUILFORD C. BABCOCK, Rockaway, N. J.
Filed June 7, 1930. Serial No. 302,229. PUBLISHED AUGUST 26, 1930. Class 2.

277,323. KEY-BITTING MACHINES. THE YALE AND TOWNE MFG. CO., Stamford, Conn.
Filed June 5, 1930. Serial No. 302,202. PUBLISHED AUGUST 26, 1930. Class 23.

277,324. CLOTHES PATTERNS. G. FOX & CO. INC., Hartford, Conn.
Filed May 31, 1930. Serial No. 301,883. PUBLISHED SEPTEMBER 2, 1930. Class 26.

277,325. ILLUMINATED MIRRORS AND CABINETS FOR MOUNTING SAME. THE CIRCOLITE COMPANY, Portland, Oreg.
Filed May 27, 1930. Serial No. 301,336. PUBLISHED SEPTEMBER 2, 1930. Class 32.

277,326. TABLE TOPS, CASES, OR CABINETS FOR RADIO INSTRUMENTS, MEGAPHONES, AND TALKING MACHINES EMPTY OF THEIR RESPECTIVE MECHANISMS. THE MERCHANT TRADING COMPANY, LIMITED, London, England.
Filed May 22, 1930. Serial No. 301,049. PUBLISHED SEPTEMBER 2, 1930. Class 32.

277,327. TABLE TOPS, CASES, OR CABINETS FOR RADIO INSTRUMENTS, MEGAPHONES, AND TALKING MACHINES EMPTY OF THEIR RESPECTIVE MECHANISMS. THE MERCHANT TRADING COMPANY, LIMITED, London, England.
Filed May 22, 1930. Serial No. 301,046. PUBLISHED SEPTEMBER 2, 1930. Class 32.

277,328. SOAP FOR HOSIERY, SILKS, RAYONS, AND WOOLENS. ORO MANUFACTURING CO., Pittsburgh, Pa.
Filed July 15, 1929. Serial No. 287,157. PUBLISHED AUGUST 26, 1930. Class 4.

277,329. LUBRICATING OILS AND GREASES AND POWER-TRANSMISSION OILS. FORTUNA-WERKE SPEZIALMASCHINENFABRIK A.-G., Stuttgart-Cannstatt, Germany.
Filed May 23, 1929. Serial No. 284,534. PUBLISHED AUGUST 19, 1930. Class 15.

277,330. LUBRICATING OILS AND GREASES AND POWER-TRANSMISSION OILS. FORTUNA-WERKE SPEZIALMASCHINENFABRIK A.-G., Stuttgart-Cannstatt, Germany.
Filed May 23, 1929. Serial No. 284,533. PUBLISHED JUNE 24, 1930. Class 15.

277,331. BALANCING APPARATUS FOR GRINDING WHEELS, ETC. FORTUNA-WERKE SPEZIALMASCHINENFABRIK A.-G., Stuttgart-Cannstatt, Germany.
Filed May 23, 1929. Serial No. 284,532. PUBLISHED JULY 15, 1930. Class 26.

277,332. BALANCING APPARATUS FOR GRINDING WHEELS, AND SPECIALLY MANUFACTURED INSTRUMENTS AND APPARATUS FOR TECHNICAL, PHYSICAL, OPTICAL, GEODETICAL, NAUTICAL, AERONAUTICAL PURPOSES, AND MEASURING APPARATUS, LEVER GAUGES, AND HOLDERS FOR SAME; MEASURING MACHINES. FORTUNA-WERKE SPEZIALMASCHINENFABRIK A.-G., Stuttgart-Cannstatt, Germany.
Filed May 23, 1929. Serial No. 284,531. PUBLISHED JUNE 24, 1930. Class 26.

277,333. MACHINES AND APPARATUS FOR WORKING LEATHER, ETC. FORTUNA-WERKE SPEZIALMASCHINENFABRIK A.-G., Stuttgart-Cannstatt, Germany.
Filed May 23, 1929. Serial No. 284,530. PUBLISHED JULY 15, 1930. Class 23.

277,334. MACHINES AND APPARATUS FOR WORKING LEATHER AND MANUFACTURING SHOES, BEVELING MACHINES, ETC. FORTUNA-WERKE SPEZIALMASCHINENFABRIK A.-G., Stuttgart-Cannstatt, Germany.
Filed May 23, 1929. Serial No. 284,529. PUBLISHED JUNE 24, 1930. Class 23.

277,335. REFRIGERATING MACHINERY. POTTER REFRIGERATOR CORPORATION, Portland, Oreg.
Filed May 20, 1929. Serial No. 284,364. PUBLISHED AUGUST 26, 1930. Class 31.

277,336. LIQUID PREPARATION TO BE USED AFTER SHAVING. THE QUEEN PERFUMERY CO., San Juan and Santurce, P. R.
Filed May 16, 1929. Serial No. 284,139. PUBLISHED AUGUST 12, 1930. Class 6.

277,337. CANDY. VERLAINE, INC., New York, N. Y., assignor to Nicholas Putnam, Inc., New York, N. Y., a Corporation of New York.
Filed April 30, 1929. Serial No. 283,314. PUBLISHED AUGUST 26, 1930. Class 46.

277,338. SHEEP-LINED AND LEATHER SPORT JACKETS. ABRAHAM FELDMAN, doing business as A. Feldman Company, Boston, Mass.
Filed April 4, 1929. Serial No. 281,823. PUBLISHED AUGUST 26, 1930. Class 39.

277,339. PARTING COMPOUNDS FOR USE IN CASTING METALS. KELLY GRAPHITE MILLS, INC., Stockertown, Pa.
Filed March 19, 1929. Serial No. 281,006. PUBLISHED AUGUST 19, 1930. Class 1.

277,340. FOUNTAIN PENS. SEARS, ROEBUCK AND CO., doing business as Diamond Medal Pen Co., Chicago, Ill.
Filed February 21, 1929. Serial No. 279,757. PUBLISHED AUGUST 26, 1930. Class 37.

277,341. ELECTRON-EMISSIVE TUBES AND PARTS THEREOF. ARCTURUS RADIO COMPANY, Newark N. J., now by change of name Arcturus Radio Tube Company.
Filed November 28, 1928. Serial No. 275,936. PUBLISHED AUGUST 26, 1930. Class 21.

277,342. CANNED FRUITS AND DRIED FRUITS. HENRI LTD., London, England.
Filed May 22, 1928. Serial No. 266,810. PUBLISHED AUGUST 26, 1930. Class 46.

277,343. MOTOR CYCLES. ARDIE-WERK A. G., Nuremberg, Germany.
Filed July 16, 1929. Serial No. 287,169. PUBLISHED SEPTEMBER 2, 1930. Class 19.

277,344. ELECTRIC-LIGHTING FIXTURES; TABLE, FLOOR, AND BRIDGE LAMPS AND PARTS THEREOF. THE MILLER COMPANY, Meriden, Conn.
Filed February 17, 1930. Serial No. 296,132. PUBLISHED SEPTEMBER 2, 1930. Class 21.

277,345. AEROPLANES AND AEROPLANE STRUCTURAL PARTS. INLAND AVIATION COMPANY, Kansas City, Kans.
Filed February 11, 1930. Serial No. 295,000. PUBLISHED AUGUST 26, 1930. Class 19.

277,346. SCREWS. THE HOLO-KROME SCREW CORPORATION, Hartford, Conn.
Filed February 5, 1930. Serial No. 295,619. PUBLISHED SEPTEMBER 2, 1930. Class 13.

277,347. CIGARS. AMERICAN CIGAR COMPANY, Jersey City, N. J., and New York, N. Y.
Filed February 5, 1930. Serial No. 295,598. PUBLISHED AUGUST 26, 1930. Class 17.

277,348. CIGARS. AMERICAN CIGAR COMPANY, Jersey City, N. J., and New York N. Y.
Filed February 5, 1930. Serial No. 295,597. PUBLISHED AUGUST 26, 1930. Class 17.

277,349. CIGARS. AMERICAN CIGAR COMPANY, Jersey City, N. J., and New York, N. Y.
Filed February 5, 1930. Serial No. 295,596. PUBLISHED AUGUST 26, 1930. Class 17.

277,350. ICE PICKS, KITCHEN FORKS, CAKE TURNERS, ETC. UTILITY MANUFACTURING CO., INC., Baltimore, Md.
Filed January 30, 1930. Serial No. 295,404. PUBLISHED AUGUST 26, 1930. Class 23.

277,351. ELECTRON-EMISSIVE TUBES AND PARTS THEREOF. ARCTURUS RADIO TUBE COMPANY, Newark, N. J.
Filed January 23, 1930. Serial No. 295,110. PUBLISHED SEPTEMBER 2, 1930. Class 21.

277,352. OVERSTUFFED FURNITURE, REED FURNITURE, FIBRE FURNITURE, ETC. J. H. MOORE COMPANY, INC., Tulsa, Okla.
Filed January 21, 1930. Serial No. 295,038. PUBLISHED AUGUST 26, 1930. Class 32.

277,353. MULTIPLE-LEVEL VALVES. THE HAZLETON COMPANY, INC., Hazleton, Pa.
Filed January 3, 1930. Serial No. 294,355. PUBLISHED AUGUST 26, 1930. Class 13.

277,354. LUBRICATING OILS AND GREASES AND OILS AND GREASES IN THE NATURE OF LUBRICANTS. INDIAN REFINING COMPANY, Lawrenceville, Ill.
Filed December 30, 1929. Serial No. 294,225. PUBLISHED SEPTEMBER 2, 1930. Class 15.

277,355. CHEMICAL PREPARATION USED AS A SUBSTITUTE FOR SOLID ALCOHOL. THE KALO COMPANY, Baltimore, Md.
Filed December 28, 1929. Serial No. 294,161. PUBLISHED AUGUST 19, 1930. Class 6.

277,356. PREPARATIONS FOR ELECTRODEPOSITING METALS OF THE PLATINUM GROUP. BAKER & COMPANY, INC., Newark, N. J.
Filed December 27, 1929. Serial No. 294,105. PUBLISHED AUGUST 12, 1930. Class 6.

277,357. IRONING BOARDS. THE PERU BASKET COMPANY, Peru, Ind.
Filed December 26, 1929. Serial No. 294,085. PUBLISHED SEPTEMBER 2, 1930. Class 24.

277,358. RAZOR BLADES, POCKETKNIVES, SCISSORS, AND SHEARS. MONTGOMERY WARD & CO., INCORPORATED, Chicago, Ill.
Filed December 26, 1929. Serial No. 294,080. PUBLISHED AUGUST 26, 1930. Class 23.

277,359. COATED TEXTILE FABRICS TREATED AND EMBOSSED. THE BUTTONLESS TIRE COVER COMPANY, Canton, Ohio.
Filed December 14, 1929. Serial No. 293,658. PUBLISHED SEPTEMBER 2, 1930. Class 50.

277,360. WEEKLY BULLETIN. MERCHANTS AND MANUFACTURERS ASSOCIATION OF BUSH TERMINAL, INC., Brooklyn, N. Y.
Filed December 13, 1929. Serial No. 293,628. PUBLISHED SEPTEMBER 2, 1930. Class 38.

277,361. PECTINIZED SUGAR. ALBERT LEO, doing business as Duz Mor'n Sugar Co., Chicago, Ill.
Filed February 20, 1930. Serial No. 296,280. PUBLISHED AUGUST 26, 1930. Class 46.

277,362. TRAINED DOGS. THE SEEING EYE, Nashville, Tenn.
Filed June 28, 1930. Serial No. 302,969. PUBLISHED AUGUST 26, 1930. Class 1.

277,363. SPONGES AND CHAMOIS. GULF SPECIALTY SALES, INC., Syracuse, N. Y.
Filed June 27, 1930. Serial No. 302,895. PUBLISHED AUGUST 26, 1930. Class 1.

277,364. COAL. THE RELIABLE COAL & MINING CO., Chicago, Peoria, Springfield, Ill.; Moberly and Kansas City, Mo.; and Omaha, Nebr.
Filed June 30, 1930. Serial No. 303,006. PUBLISHED AUGUST 26, 1930. Class 1.

277,365. SALT. WORCESTER SALT COMPANY, New York, N. Y.
Filed May 28, 1930. Serial No. 301,545. PUBLISHED AUGUST 19, 1930. Class 6.

277,366. PERIODICAL. POPULAR PUBLICATIONS, New York, N. Y.
Filed May 31, 1930. Serial No. 302,011. PUBLISHED AUGUST 26, 1930. Class 38.

277,367. PERIODICAL. POPULAR PUBLICATIONS, New York, N. Y.
Filed May 31, 1930. Serial No. 302,012. PUBLISHED AUGUST 26, 1930. Class 38.

277,368. PERIODICAL. POPULAR PUBLICATIONS, New York, N. Y.
Filed May 31, 1930. Serial No. 302,013. PUBLISHED SEPTEMBER 2, 1930. Class 38.

277,369. PRINTED CARTOONS. HUNCH'S LUCKY CARTOON COMPANY, Baltimore, Md.
Filed June 5, 1930. Serial No. 302,182. PUBLISHED AUGUST 26, 1930. Class 38.

277,370. TOILET PAPER. ALBANY PERFORATED WRAPPING PAPER COMPANY, New York, N. Y., now by change of name A. P. W. Paper Company, Inc.
Filed June 6, 1930. Serial No. 302,205. PUBLISHED AUGUST 26, 1930. Class 37.

277,371. ANTISEPTIC OR DISINFECTING CHEMICAL COMPOUND. HANCE BROTHERS & WHITE, INC., Philadelphia, Pa.
Filed June 14, 1930. Serial No. 302,434. PUBLISHED AUGUST 26, 1930. Class 6.

277,372. MEDICINAL PREPARATION FOR THE RELIEF OF PAINS AND FOR INDUCING SLEEP. FELIX MORGENSTERN, doing business as Morgenstern Chemical Co., New York, N. Y.
Filed June 16, 1930. Serial No. 302,470. PUBLISHED AUGUST 26, 1930. Class 6.

277,373. HEALING SALVE. WILLIAM SCHMERMUND, St. Louis, Mo.
Filed June 16, 1930. Serial No. 302,483. PUBLISHED SEPTEMBER 2, 1930. Class 6.

277,374. OINTMENT FOR DERMAL APPLICATION. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio.
Filed June 19, 1930. Serial No. 302,586. PUBLISHED AUGUST 19, 1930. Class 6.

277,375. CAKE AND BREAD WRAPPERS. WAX PAPER PRODUCTS CO., Omaha, Nebr.
Filed June 21, 1930. Serial No. 302,709. PUBLISHED AUGUST 26, 1930. Class 37.

277,376. CREPE PAPER. DENNISON MANUFACTURING COMPANY, Framingham, Mass.
Filed June 23, 1930. Serial No. 302,726. PUBLISHED AUGUST 26, 1930. Class 37.

277,377. WRITING AND PRINTING PAPER. HAMPSHIRE PAPER COMPANY, South Hadley Falls, Mass.
Filed July 7, 1930. Serial No. 303,181. PUBLISHED SEPTEMBER 2, 1930. Class 37.

277,378. MONTHLY MAGAZINE. F. W. DODGE CORPORATION, New York, N. Y.
Filed July 11, 1930. Serial No. 303,367. PUBLISHED AUGUST 26, 1930. Class 38.

277,379. BOOK PAPER. UNITED STATES ENVELOPE COMPANY, Springfield, Mass.
Filed July 11, 1930. Serial No. 303,408. PUBLISHED SEPTEMBER 2, 1930. Class 37.

277,380. TAG BOARD, COVER PAPER, AND BRISTOL. BRADNER SMITH & CO., Chicago, Ill.
Filed July 14, 1930. Serial No. 303,464. PUBLISHED SEPTEMBER 2, 1930. Class 37.

277,381. COATED PAPED. OXFORD PAPER COMPANY, New York, N. Y.
Filed July 14, 1930. Serial No. 303,486. PUBLISHED SEPTEMBER 2, 1930. Class 37.

277,382. PAPER NAPKINS. YORKVILLE PAPER COMPANY, New York, N. Y.
Filed July 14, 1930. Serial No. 303,498. PUBLISHED SEPTEMBER 2, 1930. Class 37.

277,383. WRITING PAPER AND ENVELOPES. MONTAG BROS. INC., Atlanta, Ga.
Filed July 24, 1930. Serial No. 303,775. PUBLISHED SEPTEMBER 2, 1930. Class 37.

277,384. COLD, BEAUTY, CLEANSING, REFRESHING, FINISHING, MASSAGE, AND BLEACHING CREAMS, AND HAND, SKIN, AND AFTER-SHAVING LOTIONS. THE E. L. PATCH COMPANY, Stoneham, Mass.
Filed May 28, 1930. Serial No. 301,501. PUBLISHED AUGUST 19, 1930. Class 6.

277,385. SCALP OINTMENT. THOMAS B. ARROYO, doing business as Hair Craft Laboratories, Chicago, Ill.
Filed May 31, 1930. Serial No. 301,781. PUBLISHED AUGUST 19, 1930. Class 6.

277,386. HAIR POMADE, HAIR-GLOSSING FLUID AND SALVE, AND TAR SCALP SALVE. MARY E. FIELDS, New York, N. Y.
Filed May 31, 1930. Serial No. 301,873. PUBLISHED SEPTEMBER 2, 1930. Class 6.

277,387. INSECTICIDES, TONICS, LINIMENTS, ETC. TEE-LEE CHEMICAL CO., Houston, Tex.
Filed May 31, 1930. Serial No. 302,086. PUBLISHED AUGUST 19, 1930. Class 6.

277,388. SALT. WORCESTER SALT COMPANY, New York, N. Y.
Filed May 31, 1930. Serial No. 302,115. PUBLISHED SEPTEMBER 2, 1930. Class 6.

277,389. SALT. WORCESTER SALT COMPANY, New York, N. Y.
Filed May 31, 1930. Serial No. 302,116. PUBLISHED SEPTEMBER 2, 1930. Class 6.

277,390. SALT. WORCESTER SALT COMPANY, New York, N. Y.
Filed May 31, 1930. Serial No. 302,117. PUBLISHED SEPTEMBER 2, 1930. Class 6.

277,391. PREPARATION FOR THE RELIEF OF COUGHS, DUE TO COLDS. M. E. ZENTZ, doing business as Broncholine Company, Baltimore, Md.
Filed May 31, 1930. Serial No. 302,121. PUBLISHED SEPTEMBER 2, 1930. Class 6.

277,392. PREPARATION FOR THE TREATMENT OF COLDS AND INFLUENZA. BLAIR A. HAUN, doing business as Haun Pharmacal Co., Des Moines, Iowa.
Filed June 4, 1930. Serial No. 302,163. PUBLISHED AUGUST 19, 1930. Class 6.

277,393. PREPARATION FOR USE IN THE TREATMENT OF CONSTIPATION. PETROLAGAR LABORATORIES, INC., Chicago, Ill.
Filed June 4, 1930. Serial No. 302,165. PUBLISHED SEPTEMBER 2, 1930. Class 6.

277,394. MOTH BALLS, NAPHTHALENE BALLS, NAPHTHALENE FLAKES, ETC. INTERNATIONAL COMBUSTION TAR & CHEMICAL CORPORATION, New York, N. Y.
Filed June 13, 1930. Serial No. 302,400. PUBLISHED AUGUST 26, 1930. Class 6.

277,395. EXTRACT MADE FROM AMNIOTIC FLUID. ELI LILLY AND COMPANY, Indianapolis, Ind.
Filed June 30, 1930. Serial No. 303,002. PUBLISHED AUGUST 26, 1930. Class 6.

277,396. DEODORANT, MOUTH WASH, AND ANTISEPTIC SOLUTION. BEN L. JOHNSON, doing business as Tras-Tine Chemical Company, Canton, Miss.
Filed July 1, 1930. Serial No. 303,027. PUBLISHED SEPTEMBER 2, 1930. Class 6.

277,397. DYES AND DYESTUFFS. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed July 7, 1930. Serial No. 303,170. PUBLISHED AUGUST 26, 1930. Class 6.

277,398. DRINKING-WATER ANTISEPTIC FOR POULTRY. BARBARA REESE, doing business as Robert M. Reese, Philadelphia, Pa.
Filed July 7, 1930. Serial No. 303,211. PUBLISHED SEPTEMBER 2, 1930. Class 6.

277,399. INSECTICIDES. SPRAYIT PRODUCTS, INC., South Bend, Ind.
Filed July 7, 1930. Serial No. 303,219. PUBLISHED SEPTEMBER 2, 1930. Class 6.

277,400. LIP ROUGE, FACE ROUGE, FACE POWDER, TOOTH PASTE, TALCUM POWDER, TOILET WATER, PERFUME, COLD CREAM, VANISHING CREAM, SKIN SACHET, NAIL POLISH, FACE LOTION, FACE CREAMS, AND BEAUTY CLAY. GUSTAVE GLATZER, doing business as Duré, New York, N. Y.
Filed July 9, 1930. Serial No. 303,284. PUBLISHED SEPTEMBER 2, 1930. Class 6.

277,401. PREPARATION FOR TREATING INDIGESTION AND CONSTIPATION. ALBERT M. HOPPER, doing business as The Kanesia Company, New York, N. Y.
Filed July 19, 1930. Serial No. 303,642. PUBLISHED SEPTEMBER 2, 1930. Class 6.

277,402. A PREPARATION OR COATING FOR THE PROTECTION OF PACKAGES AND LABELS AGAINST ALKALIS, PERSPIRATION, OR CHEMICAL ACTION. THE SUN TUBE CORPORATION, Hillside, N. J.
Filed July 19, 1930. Serial No. 303,665. PUBLISHED SEPTEMBER 2, 1930. Class 6.

277,403. PURGATIVE, LAXATIVE, AND TONIC MEDICINAL PREPARATION. DROLAC CHEMICAL CO., Buncombe, N. C.
Filed July 21, 1930. Serial No. 303,687. PUBLISHED SEPTEMBER 2, 1930. Class 6.

277,404. BRACELETS, RINGS, NECKLACES, ETC. KAUFMANN DEPARTMENT STORES, INC., Pittsburgh, Pa.
Filed April 17, 1930. Serial No. 298,997. PUBLISHED AUGUST 26, 1930. Class 28.

277,405. PARTS OF AND APPURTENANCES FOR KILNS SOLD AS COMPLETE KILNS, ETC. F. L. SMIDTH & CO., New York, N. Y.
Filed April 16, 1930. Serial No. 298,959. PUBLISHED AUGUST 26, 1930. Class 34.

277,406. COOKIES ND CRACKERS, MUSHROOM SAUCE, ETC. RALPH RAULLI, doing business as Sunland Biscuit Co., Los Angeles, Calif.
Filed April 15, 1930. Serial No. 298,907. PUBLISHED AUGUST 26, 1930. Class 46.

277,407. PROTECTIVE STRUCTURAL COATING MATERIAL FOR WALLS AND THE LIKE. THE BAYER PRODUCTS COMPANY, INC., New York, N. Y.
Filed April 15, 1930. Serial No. 298,881. PUBLISHED SEPTEMBER 2, 1930. Class 12.

277,408. OPEN-TYPE FLOORING MADE OF METAL. WELDED PRODUCTS CO. INC., Bell, Calif.
Filed April 14, 1930. Serial No. 298,872. PUBLISHED SEPTEMBER 2, 1930. Class 12.

277,409. COSMETICS AND TOILET PREPARATIONS. SMART & COMPANY, INC., Los Angeles, doing business as Dona Rosa and also as Dona Rosa Toiletries, Hollywood, Calif., assignor to Sontag Chain Stores Co. Ltd., Los Angeles, Calif., a Corporation of Delaware.
Filed April 14, 1930. Serial No. 298,856. PUBLISHED AUGUST 19, 1930. Class 6.

277,410. MEDICINE AND PHARMACEUTICAL PREPARATIONS FOR TREATMENT OF CANCER. BELL MCNEIR, Inglewood, Calif.
Filed April 14, 1930. Serial No. 298,829. PUBLISHED AUGUST 19, 1930. Class 6.

277,411. CANDY. EDSON L. HUTCHINSON, doing business as Hutchinson Candy Company, San Francisco, Calif.
Filed April 11, 1930. Serial No. 298,701. PUBLISHED AUGUST 26, 1930. Class 46.

277,412. SENSITIZED PAPER FOR MAKING BLACK-LINE PRINTS. CHARLES BRUNING COMPANY, INC., New York, N. Y.
Filed May 2, 1930. Serial No. 299,825. PUBLISHED SEPTEMBER 2, 1930. Class 26.

277,413. PERFUMERY GOODS—NAMELY, PERFUMED WATERS, OILS, AND PAINTS FOR THE FACE. STE. ANONYME FRANÇAISE REDFERN, Paris, France.
Filed April 8, 1930. Serial No. 298,551. PUBLISHED AUGUST 19, 1930. Class 6.

277,414. PERFUMERY GOODS—NAMELY, PERFUMED WATERS, OILS, AND PAINTS FOR THE FACE. SOCIÉTÉ ANONYME FRANÇAISE REDFERN, Paris, France.
Filed April 8, 1930. Serial No. 298,550. PUBLISHED AUGUST 12, 1930. Class 6.

277,415. RUBBER INNER TUBES, RUBBER INNER-TUBE-PATCHING MATERIAL, BLOW-OUT PATCHES, CASING REPAIR PLUGS, AUTOMOBILE FAN BELTS, TRANSMISSION AND BRAKE LININGS, RADIATOR HOSE. BETTER PRODUCTS COMPANY INC., Dallas, Tex.
Filed April 5, 1930. Serial No. 298,423. PUBLISHED AUGUST 26, 1930. Class 35.

277,416. CONCENTRATED ALCOHOLIC ESSENCES TO BE USED FOR FLAVOURING CONFECTIONERY SUCH AS SWEETS, CANDIES, ROCKS, DROPS, ICE CREAMS, AND JELLIES. SCHIMMEL & CO. AKTIENGESELLSCHAFT, Miltitz, near Leipzig, Germany.
Filed April 3, 1930. Serial No. 298,359. PUBLISHED AUGUST 26, 1930. Class 46.

277,417. TRACTORS, TRACTOR ENGINES, TRACK LINKS, ETC. CATERPILLAR TRACTOR CO., San Leandro, Calif.
Filed March 24, 1930. Serial No. 297,791. PUBLISHED AUGUST 26, 1930. Class 23.

277,418. RADIO AERIAL KITS. NELSON K. MALOTTE, doing business as Malotte Products Co., New York, N. Y.
Filed March 22, 1930. Serial No. 297,752. PUBLISHED SEPTEMBER 2, 1930. Class 21.

277,419. MACHINES AND APPARATUS FOR GRINDING, LAPPING, AND BURNISHING GEARS; MACHINES AND APPARATUS FOR SHARPENING AND RELIEVING GEAR-CUTTING TOOLS, QUENCHING PRESSES, AND FOR PARTS FOR THE ABOVE-LISTED MACHINERY AND APPARATUS. THE GLEASON WORKS, Rochester, N. Y.
Filed March 22, 1930. Serial No. 297,786. PUBLISHED SEPTEMBER 2, 1930. Class 23.

277,420. MACHINES AND APPARATUS FOR TESTING GEARS, APPARATUS FOR TESTING GEAR-CUTTING TOOLS, REAR-AXLE-TESTING APPARATUS, AND PARTS FOR THE ABOVE-LISTED MACHINERY AND APPARATUS. THE GLEASON WORKS, Rochester, N. Y.
Filed March 22, 1930. Serial No. 297,785. PUBLISHED SEPTEMBER 2, 1930. Class 26.

277,421. ANTINEURALGIC AND ANTIPYRETIC. GREGORY B. STOLBERG, doing business as Stolberg Laboratories, New York, N. Y.
Filed March 12, 1930. Serial No. 297,212. PUBLISHED AUGUST 12, 1930. Class 6.

277,422. CORED AND SOLID BARS, GEAR BLANKS, CASTINGS, AND DRAWN RODS, ALL MADE OF BRONZE; AND BABBITT. SUMET CORPORATION, Buffalo, N. Y.
Filed February 25, 1930. Serial No. 296,500. PUBLISHED AUGUST 26, 1930. Class 14.

277,423. INTERNAL COMBUSTION ENGINES AND PARTS THEREFOR. CONTINENTAL AIRCRAFT ENGINE COMPANY, Detroit, Mich.
Filed February 24, 1930. Serial No. 296,399. PUBLISHED SEPTEMBER 2, 1930. Class 23.

277,424. LIBRARY OUTFIT—NAMELY, BOOKCASES, BOOKRACKS, BOOKSHELVES, AND BOOKS. AMERICAN LENDING LIBRARY, INC., College Point, N. Y.
Filed May 14, 1930. Serial No. 300,457. PUBLISHED AUGUST 26, 1930. Class 50.

277,425. AUTOMATIC COAL BURNERS. IRON FIREMAN MANUFACTURING COMPANY, Portland, Oreg.
Filed May 13, 1930. Serial No. 300,418. PUBLISHED SEPTEMBER 2, 1930. Class 34.

277,426. METAL PIPE AND TUBING. THE YOUNGSTOWN SHEET & TUBE COMPANY, Youngstown, Ohio.
Filed May 10, 1930. Serial No. 300,314. PUBLISHED AUGUST 26, 1930. Class 13.

277,427. PRINTED MOTION-PICTURE FILMS. METRO-GOLDWYN-MAYER CORPORATION, Los Angeles, Calif.
Filed May 9, 1930. Serial No. 300,221. PUBLISHED SEPTEMBER 2, 1930. Class 26.

277,428. LIQUID INSECTICIDE. MYRON H. PRESS, doing business as Scientific Exterminators Research Laboratories, New York, N. Y.
Filed May 7, 1930. Serial No. 300,086. PUBLISHED AUGUST 12, 1930. Class 6.

277,429. MOTOR-FUEL OILS AND GAS LUBRICATING OILS AND LUBRICATING GREASES. BULK SERVICE STATIONS, INC., Chicago, Ill.
Filed May 7, 1930. Serial No. 300,048. PUBLISHED AUGUST 26, 1930. Class 15.

277,430. FLASKS MADE OF GLASS CONTAINED IN LEATHER CASES, SHIRT CASES, TIE CASES, HANDKERCHIEF CASES, LINGERIE CASES, AND LEATHER BOXES FOR JEWELRY. DOBBS & CO., New York, N. Y.
Filed May 3, 1930. Serial No. 299,900. PUBLISHED AUGUST 26, 1930. Class 2.

277,431. CASCADED ELECTRON-TUBE SYSTEMS FOR AMPLIFYING, DETECTING, REPEATING, OR RELAYING ELECTRICAL EFFECTS AND THE LIKE. EDWARD H. LOFTIN, TRUSTEE, New York, N. Y.
Filed May 1, 1930. Serial No. 299,784. PUBLISHED SEPTEMBER 2, 1930. Class 21.

277,432. PREPARATION FOR DYEING HAIR. JAMES HATSUTO YAMADA, San Francisco, Calif.
Filed April 30, 1930. Serial No. 299,748. PUBLISHED AUGUST 19, 1930. Class 6.

CARNEGIE LIBRARY OF ATLANTA

277,433. CHEMICALS FOR SOFTENING AND PURIFYING WATER; CHEMICALLY OR MECHANICALLY COMBINED ORGANIC AND INORGANIC SUBSTANCES FOR USE IN BOILERS TO PREVENT SCALE. TARTRICIDGESELLSCHAFT M. B. H., Hagen, Germany.
Filed April 30, 1930. Serial No. 299,737. PUBLISHED AUGUST 19, 1930. Class 6.

277,434. LADIES' UNDERWEAR OF SILK, RAYON, COTTON, AND COMBINATIONS THEREOF. JULIUS KAYSER & CO., New York, N. Y.
Filed April 29, 1930. Serial No. 299,661. PUBLISHED AUGUST 26, 1930. Class 39.

277,435. FRATERNITY PINS, BADGES, BRACELETS, AND RINGS, ALL MADE OF OR PLATED WITH PRECIOUS METAL. OMEGA UPSILON, Evanston, Ill.
Filed April 29, 1930. Serial No. 299,617. PUBLISHED AUGUST 19, 1930. Class 28.

277,436. LAXATIVES. KOOKY-LAX COMPANY, Philadelphia, Pa.
Filed April 28, 1930. Serial No. 299,581. PUBLISHED AUGUST 12, 1930. Class 6.

277,437. GASOLINE AND HOUSEHOLD-FUEL OIL, LUBRICATING OIL, AND ILLUMINATING OIL. BUSFIELD OIL COMPANY, INC., Haverhill, Mass.
Filed April 26, 1930. Serial No. 299,484. PUBLISHED AUGUST 19, 1930. Class 15.

277,438. BEEF SANDWICHES, PORK SANDWICHES, CHICKEN SANDWICHES, HAMBURGER SANDWICHES, AND POTATO CHIPS. HARVEY W. REIFSCHNEIDER, doing business as Reifschneider's White Spot, Dallas, Tex.
Filed April 22, 1930. Serial No. 299,280. PUBLISHED AUGUST 26, 1930. Class 46.

277,439. CHIFFOROBES, WARDROBES, DRESSEROBES, AND DRAWER CHESTS. LOUCK & HILL COMPANY, Richmond, Ind.
Filed May 20, 1930. Serial No. 300,879. PUBLISHED SEPTEMBER 2, 1930. Class 32.

277,440. CANNED MALT SYRUP. MAE HOLLANDER, doing business as Connecticut Malt Supply Co., Waterbury, Conn.
Filed May 20, 1930. Serial No. 300,872. PUBLISHED AUGUST 26, 1930. Class 46.

277,441. TOOTHBRUSHES. EXTERIKULTUR A.-G., Kolberg, Germany.
Filed May 20, 1930. Serial No. 300,865. PUBLISHED AUGUST 26, 1930. Class 29.

277,442. MAYONNAISE AND SANDWICH SPREAD. MOBILE GROCERY COMPANY, doing business as Southern Products Co., Mobile, Ala.
Filed May 16, 1930. Serial No. 300,644. PUBLISHED AUGUST 26, 1930. Class 46.

277,443. LIGHTING FIXTURES—NAMELY, METAL REFLECTORS. BRYANT PARK ELECTRIC LAMP COMPANY, New York, N. Y.
Filed May 16, 1930. Serial No. 300,611. PUBLISHED SEPTEMBER 2, 1930. Class 34.

277,444. NEWSPAPER COLUMN OF SPORT COMMENT. JOE FOLEY, Chicago, Ill.
Filed June 25, 1930. Serial No. 302,818. PUBLISHED SEPTEMBER 2, 1930. Class 38.

277,445. GLUE CONTAINING CASEIN. PERKINS GLUE COMPANY, Lansdale, Pa.
Filed June 14, 1930. Serial No. 302,443. PUBLISHED AUGUST 26, 1930. Class 5.

277,446. RESINS. INTERNATIONAL COMBUSTION TAR & CHEMICAL CORPORATION, New York, N. Y.
Filed June 13, 1930. Serial No. 302,401. PUBLISHED AUGUST 26, 1930. Class 1.

277,447. SHEETS MADE OF REGENERATED CELLULOSE. SYLVANIA INDUSTRIAL CORPORATION, New York, N. Y.
Filed June 6, 1930. Serial No. 302,224. PUBLISHED AUGUST 26, 1930. Class 1.

277,448. BUTTER. MILLER MAID CREAMERY, INC., Akron, Ohio.
Filed May 31, 1930. Serial No. 301,986. PUBLISHED AUGUST 26, 1930. Class 46.

277,449. BUILDING STONE AS IT COMES FROM THE QUARRY. INDIANA LIMESTONE COMPANY, Bedford, Ind., and New York, N. Y.
Filed May 28, 1930. Serial No. 301,462. PUBLISHED SEPTEMBER 2, 1930. Class 1.

277,450. BUILDING STONE AS IT COMES FROM THE QUARRY. INDIANA LIMESTONE COMPANY, Bedford, Ind., and New York, N. Y.
Filed May 28, 1930. Serial No. 301,461. PUBLISHED SEPTEMBER 2, 1930. Class 1.

277,451. BUILDING STONE AS IT COMES FROM THE QUARRY. INDIANA LIMESTONE COMPANY, Bedford, Ind., and New York, N. Y.
Filed May 28, 1930. Serial No. 301,460. PUBLISHED SEPTEMBER 2, 1930. Class 1.

277,452. BUILDING STONE AS IT COMES FROM THE QUARRY. INDIANA LIMESTONE COMPANY, Bedford, Ind., and New York, N. Y.
Filed May 28, 1930. Serial No. 301,459. PUBLISHED SEPTEMBER 2, 1930. Class 1.

277,453. BUILDING STONE AS IT COMES FROM THE QUARRY. INDIANA LIMESTONE COMPANY, Bedford, Ind., and New York, N. Y.
Filed May 28, 1930. Serial No. 301,458. PUBLISHED SEPTEMBER 2, 1930. Class 1.

277,454. BUILDING STONE AS IT COMES FROM THE QUARRY. INDIANA LIMESTONE COMPANY, Bedford, Ind., and New York, N. Y.
Filed May 28, 1930. Serial No. 301,455. PUBLISHED SEPTEMBER 2, 1930. Class 1.

277,455. BUILDING STONE AS IT COMES FROM THE QUARRY. INDIANA LIMESTONE COMPANY, Bedford, Ind., and New York, N. Y.
Filed May 28, 1930. Serial No. 301,451. PUBLISHED SEPTEMBER 2, 1930. Class 1.

277,456. BUILDING STONE AS IT COMES FROM THE QUARRY. INDIANA LIMESTONE COMPANY, Bedford, Ind., and New York, N. Y.
Filed May 28, 1930. Serial No. 301,449. PUBLISHED SEPTEMBER 2, 1930. Class 1.

277,457. BUILDING STONE AS IT COMES FROM THE QUARRY. INDIANA LIMESTONE COMPANY, Bedford, Ind., and New York, N. Y.
Filed May 28, 1930. Serial No. 301,447. PUBLISHED SEPTEMBER 2, 1930. Class 1.

277,458. BUILDING STONE AS IT COMES FROM THE QUARRY. INDIANA LIMESTONE COMPANY, Bedford, Ind., and New York, N. Y.
Filed May 28, 1930. Serial No. 301,446. PUBLISHED SEPTEMBER 2, 1930. Class 1.

277,459. BUILDING STONE AS IT COMES FROM THE QUARRY. INDIANA LIMESTONE COMPANY, Bedford, Ind., and New York, N. Y.
Filed May 28, 1930. Serial No. 301,443. PUBLISHED SEPTEMBER 2, 1930. Class 1.

277,460. BUILDING STONE AS IT COMES FROM THE QUARRY. INDIANA LIMESTONE COMPANY, Bedford, Ind., and New York, N. Y.
Filed May 28, 1930. Serial No. 301,442. PUBLISHED SEPTEMBER 2, 1930. Class 1.

277,461. EXTRACT AND PREPARATION OF BULGARIAN GARLIC. CARL WEBER, Berlin-Charlottenburg, Germany.
Filed Nov. 20, 1929. Serial No. 292,644. PUBLISHED AUGUST 19, 1930. Class 6.

277,462. BUSINESS CARDS, CATALOGUES, CIRCULARS, FOLDERS, BOOKS, BOOKLETS, PAMPHLETS, DISPLAY CARDS, COUNTER CARDS, BROADSIDES, POSTERS, LETTERS FOR DIRECT MAILING. ALEX. G. HIGHTON, INC., Newark, N. J.
Filed May 9, 1930. Serial No. 300,196. PUBLISHED SEPTEMBER 2, 1930. Class 38.

277,463. NONALCOHOLIC, MALTLESS BEVERAGE SOLD AS A SOFT DRINK. ARTHUR ELDRIDGE ADAMS, Denver, Colo.
Filed May 12, 1930. Serial No. 300,315. PUBLISHED SEPTEMBER 2, 1930. Class 45.

277,464. BREAD. OLAF HERTZWIG TRADING CO., INC., New York, N. Y.
Filed May 13, 1930. Serial No. 300,414. PUBLISHED SEPTEMBER 2, 1930. Class 46.

277,465. METAL-PRESERVATIVE PAINT. JEWEL PAINT & VARNISH CO., Chicago, Ill.
Filed May 14, 1930. Serial No. 300,522. PUBLISHED AUGUST 26, 1930. Class 16.

277,466. BOND PAPER. SAXON PAPER PRODUCTS, INC., New York, N. Y.
Filed May 16, 1930. Serial No. 300,672. PUBLISHED SEPTEMBER 2, 1930. Class 37.

277,467. BOND PAPER. SAXON PAPER PRODUCTS, INC., New York, N. Y.
Filed May 16, 1930. Serial No. 300,676. PUBLISHED SEPTEMBER 2, 1930. Class 37.

277,468. POULTRY FEED. TIOGA-EMPIRE FEED MILLS, INC., Waverly, N. Y.
Filed May 16, 1930. Serial No. 300,691. PUBLISHED AUGUST 19, 1930. Class 46.

277,469. CHEMICAL DYES. RICHARD CHEMICAL COMPANY, Long Island City, N. Y.
Filed May 17, 1930. Serial No. 300,756. PUBLISHED AUGUST 19, 1930. Class 6.

277,470. CHEMICAL DYES. RICHARD CHEMICAL COMPANY, Long Island City, N. Y.
Filed May 17, 1930. Serial No. 300,757. PUBLISHED AUGUST 19, 1930. Class 6.

277,471. TALC POWDER. COLGATE-PALMOLIVE-PEET COMPANY, Chicago, Ill.
Filed May 19, 1930. Serial No. 300,785. PUBLISHED AUGUST 26, 1930. Class 6.

277,472. GOODS MADE OF LEATHER OR FABRIC OR COMBINATIONS THEREOF—NAMELY, EMPTY COMPACT CASES, BILL FOLDS, PORTFOLIOS, POCKETBOOKS, AND KEY CASES. CLARENCE J. BUTTERFIELD, Van Nuys, Calif.
Filed May 21, 1930. Serial No. 300,923. PUBLISHED AUGUST 26, 1930. Class 3.

277,473. FACE POWDER. THE ARMAND COMPANY,, Des Moines, Iowa.
Filed December 9, 1929. Serial No. 293,399. PUBLISHED SEPTEMBER 2, 1930. Class 6.

277,474. SURGICAL DRESSINGS AND POULTICES. PAUL HARTMANN, A.-G., Heidenheim, Germany.
Filed December 11, 1929. Serial No. 293,555. PUBLISHED AUGUST 19, 1930. Class 6.

277,475. CLEANING AGENT FOR REMOVING FOREIGN MATTER FROM THE INTERIOR OF BOILERS. EARL BOYKO, doing business as Chemco Distributing Co., Chicago, Ill.
Filed December 12, 1929. Serial No. 293,570. PUBLISHED AUGUST 19, 1930. Class 6.

277,476. RABBIT FOOD. RAJAH RABBITRY, INC., Wichita, Kans.
Filed January 2, 1930. Serial No. 294,320. PUBLISHED AUGUST 26, 1930. Class 46.

277,477. WINDSHIELD CLEANER. FRANK M. HOWARD, doing business as The Howard Manufacturing Company, Pittsburgh, Pa.
Filed January 8, 1930. Serial No. 294,531. PUBLISHED AUGUST 26, 1930. Class 4.

277,478. MONTHLY PUBLICATION. IZAAK WALTON LEAGUE OF AMERICA, Chicago, Ill.
Filed December 2, 1929. Serial No. 294,553. PUBLISHED AUGUST 26, 1930. Class 38.

277,479. MEDICINAL PREPARATION ADAPTED TO BE APPLIED EXTERNALLY IN THE TREATMENT OF INFLUENZA, COLDS, AND PNEUMONIA. JOSEPH WILLIAM JOSEPH, doing business as Joseph's Wonder of the Age, Los Banos, Calif.
Filed January 20, 1930. Serial No. 294,975. PUBLISHED AUGUST 19, 1930. Class 6.

277,480. CAKE FLOUR AND FOR STOCK FEED. CHARLESTON MILLING & PRODUCE COMPANY, Charleston, W. Va.
Filed January 24, 1930. Serial No. 295,152. PUBLISHED AUGUST 19, 1930. Class 46.

277,481. RUSSIAN MINERAL OIL. JOHN M. CHABROWE, doing business as The Ruminol Co., Brooklyn, N. Y.
Filed March 25, 1930. Serial No. 297,855. PUBLISHED SEPTEMBER 2, 1930. Class 6.

277,482. CHEESE. LA CORPORATION DE LA TRAPPE DE NOTRE-DAME-DU-LAC DES DEUX MONTAGNES, La Trappe, Quebec, Canada.
Filed March 27, 1930. Serial No. 297,974. PUBLISHED AUGUST 26, 1930. Class 46.

277,483. TEXTILE AND LEATHER FINISHING OILS AND FATS, PREPARATIONS FOR FINISHING TEXTILE GOODS. N. V. CHEMISCHE FABRIEK DR. K. A. OCKINGA, Enschede, Netherlands.
Filed April 2, 1930. Serial No. 298,288. PUBLISHED AUGUST 19, 1930. Class 6.

277,484. POULTRY MEDICINE. THE OSAVEUS PRODUCTS CO., Frankfort, Ind.
Filed April 2, 1930. Serial No. 298,289. PUBLISHED AUGUST 26, 1930. Class 6.

277,485. DEVICES FOR USE IN PLAYING THE GAME OF BRIDGE—NAMELY, A SCORE-PAD-HOLDING DEVICE, PADS THEREFOR, AND SCORE CARDS. LEO SCHLESINGER COMPANY INC., New York, N. Y.
Filed April 3, 1930. Serial No. 298,360. PUBLISHED AUGUST 26, 1930. Class 37.

277,486. TALLIES AND SCORE CARDS FOR BRIDGE. WILLIAM G. HAMILTON, Jr., Brooklyn, N. Y.
Filed April 18, 1930. Serial No. 299,058. PUBLISHED AUGUST 26, 1930. Class 37.

277,487. DAIRY FEEDS. DIXIE FEED COMPANY, Savannah, Ga.
Filed April 21, 1930. Serial No. 299,189. PUBLISHED SEPTEMBER 2, 1930. Class 46.

277,488. WINE, CHAMPAGNE. VAI BROS., doing business as California Medicinal Wine Co., Los Angeles, Calif.
Filed April 22, 1930. Serial No. 299,291. PUBLISHED SEPTEMBER 2, 1930. Class 47.

277,489. PERIODICAL PUBLICATIONS ISSUED MONTHLY. UNITED MERCHANTS OF AMERICA, INC., Cleveland, Ohio.
Filed April 23, 1930. Serial No. 299,353. PUBLISHED AUGUST 26, 1930. Class 38.

277,490. CHEMICAL DYE AIDS—NAMELY, MOISTENING PREPARATIONS, THREAD AND FIBRE PROTECTING PREPARATIONS, THREAD AND FIBRE PENETRATING PREPARATIONS, SMOOTHING PREPARATIONS, AND TANNING PREPARATIONS. H. TH. BÖHME A. G., Chemnitz, Germany.
Filed April 28, 1930. Serial No. 299,545. PUBLISHED SEPTEMBER 2, 1930. Class 6.

277,491. WASHING FLUID. LOUIS MASSA, Trenton, N. J.
Filed March 1, 1930. Serial No. 296,706. PUBLISHED AUGUST 26, 1930. Class 4.

277,492. NEWSPAPER CARTOONS. PAUL ROBINSON, Belleville, N. J.
Filed February 24, 1930. Serial No. 296,447. PUBLISHED APRIL 8, 1930. Class 38.

277,493. WAX FOR USE ON PAINTED, VARNISHED, OR ENAMELED SURFACES. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed February 13, 1930. Serial No. 296,001. PUBLISHED AUGUST 26, 1930. Class 16.

277,494. FILLER FOR WOOD AND OTHER MATERIALS USED FOR FLOORS. CONTINENTAL CHEMICAL CORPORATION, Watseka, Ill.
Filed February 6, 1930. Serial No. 295,659. PUBLISHED AUGUST 26, 1930. Class 16.

277,495. FINELY-DIVIDED MINERAL MATERIAL. CELITE CORPORATION, New York, N. Y.
Filed January 30, 1930. Serial No. 295,362. PUBLISHED AUGUST 26, 1930. Class 1.

277,496. ALL SANDWICHES, INCLUDING BEEF AND PORK SANDWICHES. MIRL D. CRAVENS, Lubbock, Tex.
Filed January 24, 1930. Serial No. 295,153. PUBLISHED AUGUST 26, 1930. Class 46.

277,497. MEDICAL PREPARATION. HENRY L. DITTMAR, Rosendale, N. Y.
Filed March 24, 1930. Serial No. 297,800. PUBLISHED AUGUST 26, 1930. Class 6.

277,498. ANTISEPTIC TABLETS, COLD CAPSULES, TONIC, ETC. NATHAN WIESELMAN, doing business as A-Gene Health Laboratories Co., St. Louis, Mo.
Filed March 19, 1930. Serial No. 297,562. PUBLISHED SEPTEMBER 2, 1930. Class 6.

277,499. PERIODICAL PUBLICATION. THE HIGH SCHOOL DIGEST, New York, N. Y.
Filed May 9, 1930. Serial No. 300,195. PUBLISHED AUGUST 26, 1930. Class 38.

277,500. BATH SALTS. SCOTT-LA BELLE CORP., Seattle, Wash.
Filed May 7, 1930. Serial No. 300,091. PUBLISHED AUGUST 26, 1930. Class 6.

277,501. LEATHER. GEO. LAUB'S SONS, Buffalo, N. Y.
Filed May 7, 1930. Serial No. 300,069. PUBLISHED AUGUST 19, 1930. Class 1.

277,502. WRITING AND PRINTING PAPER. HAMPSHIRE PAPER COMPANY, South Hadley Falls, Mass.
Filed May 6, 1930. Serial No. 300,018. PUBLISHED SEPTEMBER 2, 1930. Class 37.

277,503. PAPER, MORE PARTICULARLY GLASSINE PAPER. THE GLASSINE PAPER COMPANY, West Conshohocken, Pa.
Filed May 5, 1930. Serial No. 299,966. PUBLISHED AUGUST 26, 1930. Class 37.

277,504. POWDER-TRAIN FUSES. COAST MANUFACTURING & SUPPLY CO., Livermore, Calif.
Filed May 1, 1930. Serial No. 299,762. PUBLISHED AUGUST 26, 1930. Class 9.

277,505. GENERAL CLEANING PREPARATION. E. J. SMITH & SON, Canton, Ohio.
Filed April 30, 1930. Serial No. 299,734. PUBLISHED AUGUST 26, 1930. Class 4.

277,506. DIATOMACEOUS EARTH, KIESELGUHR, AND INFUSORIAL EARTH IN LUMPS OR PULVERIZED, MORE OR LESS DRIED, USED IN THE PREPARATION OF FILTER AIDS, FILLERS, HEAT INSULATION, CONCRETE ADMIXTURES, ABSORBENTS, AND POLISHES. THE DICALITE COMPANY, Torrance, Calif.
Filed April 30, 1930. Serial No. 299,689. PUBLISHED AUGUST 26, 1930. Class 1.

277,507. INFUSORIAL EARTH FILLERS, ETC., ESPECIALLY PREPARED FOR USE IN POLISHES AND MILD ABRASIVES. THE DICALITE COMPANY, Torrance, Calif.
Filed April 30, 1930. Serial No. 299,688. PUBLISHED SEPTEMBER 2, 1930. Class 4.

277,508. WINE, CHAMPAGNE. VAI BROS., doing business as California Medicinal Wine Co., Los Angeles, Calif.
Filed April 28, 1930. Serial No. 299,605. PUBLISHED SEPTEMBER 2, 1930. Class 47.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

277,509. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MCCOURT & MCCOURT, New York, N. Y. Filed May 29, 1930. Serial No. 301,675.



For Soap.
Claims use since Jan. 9, 1925.

277,510. (CLASS 37. PAPER AND STATIONERY.) DEERFIELD GLASSINE COMPANY, New York, N. Y. Filed Jan. 22, 1929. Serial No. 278,279.

PLATEGLASSINE

For Moisture-Resisting, Greaseproof, Transparent Paper.
Claims use since Nov. 21, 1928.

277,511. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) F. DUCHARNE SILK CO. INC., New York, N. Y. Filed Sept. 18, 1929. Serial No. 289,920.

CREPE "ANNAM"

For Silk Piece Goods.
Claims use since Aug. 30, 1929.

277,512. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES. AUTOMATIC SPRINKLER CORPORATION OF AMERICA, Cleveland, Ohio. Filed Apr. 23, 1930. Serial No. 299,299.

"AUTOMATIC" SPRINKLER CORPORATION OF AMERICA
RATE OF RISE

For Automatic Releasing Devices, Valves, Connecting Tubing, and Compensating Vents for Fire-Extinguishing Systems for Permanent Installation for Fire-Protection Purposes.
Claims use since Mar. 14, 1928.

277,513. (CLASS 39. CLOTHING.) BROOKS BROTHERS, New York, N. Y. Filed May 31, 1930. Serial No. 301,802.

BEAUFORT

For Collars.
Claims use since Oct. 29, 1912.

277,514. (CLASS 39. CLOTHING.) BROOKS BROTHERS, New York, N. Y. Filed May 31, 1930. Serial No. 301,803.

CAMBRIDGE

For Collars.
Claims use since July 7, 1913.

277,515. (CLASS 39. CLOTHING.) BROOKS BROTHERS, New York, N. Y. Filed May 31, 1930. Serial No. 301,804.

BOYLSTON

For Collars.
Claims use since Apr. 2, 1915.

277,516. (CLASS 39. CLOTHING.) BROOKS BROTHERS, New York, N. Y. Filed May 31, 1930. Serial No. 301,806.

HENLEY

For Collars.
Claims use since Oct. 1, 1925.

277,517. (CLASS 39. CLOTHING.) BROOKS BROTHERS, New York, N. Y. Filed May 31, 1930. Serial No. 301,807.

JERMYN

For Collars.
Claims use since June 25, 1924.

277,518. (CLASS 39. CLOTHING.) BROOKS BROTHERS, New York, N. Y. Filed May 31, 1930. Serial No. 301,809.

DOVER

For Collars.
Claims use since Aug. 5, 1929.

277,519. (CLASS 39. CLOTHING.) BROOKS BROTHERS, New York, N. Y. Filed May 31, 1930. Serial No. 301,810.

CAPETOWN

For Collars.
Claims use since Sept. 24, 1929.

277,520. (CLASS 39. CLOTHING.) BROOKS BROTHERS, New York, N. Y. Filed May 31, 1930. Serial No. 301,816.

PRESTWICK

For Collars.
Claims use since Jan. 7, 1926.

277,521. (CLASS 39. CLOTHING.) BROOKS BROTHERS, New York, N. Y. Filed May 31, 1930. Serial No. 301,817.

MALVERN

For Collars.
Claims use since Oct. 30, 1921.

277,522. (CLASS 39. CLOTHING.) BROOKS BROTHERS, New York, N. Y. Filed May 31, 1930. Serial No. 301,819.

TROON

For Collars.
Claims use since May 8, 1925.

277,523. (CLASS 39. CLOTHING.) BROOKS BROTHERS, New York, N. Y. Filed May 31, 1930. Serial No. 301,820.

MANCHESTER

For Collars.
Claims use since Sept. 24, 1921.

277,524. (CLASS 39. CLOTHING.) RICHARDS, SUTTON & THORNTON, INC., New York, N. Y. Filed June 23, 1930. Serial No. 302,748.

Worthy

For Boys', Misses', and Children's Knitted Underwear—Namely, Union Suits, Waist Suits, Vests, and Pants; and Men's and Women's Knitted Cotton, Rayon, and Woolen Polo Shirts and Sweaters.
Claims use since November, 1928.

277,525. (CLASS 39. CLOTHING.) BROOKS BROTHERS, New York, N. Y. Filed July 24, 1930. Serial No. 303,760.

Newmarket.

For Collars.
Claims use since 1916.

277,526. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) BETHLEHEM STEEL COMPANY, Bethlehem, Pa. Filed July 26, 1930. Serial No. 303,832.

Silvery Mayari

For Pig Iron.
Claims use since Jan. 16, 1929.

277,527. (CLASS 42. KNITTED, NETTED, AND THX-TILE FABRICS.) J. A. FINN & COMPANY, New York, N. Y. Filed Aug. 11, 1930. Serial No. 304,455.

"Finnshrunk"

For Cotton Piece Goods.
Claims use since Sept. 5, 1928.

277,528. (CLASS 33. GLASSWARE.) OBEAR-NESTER GLASS COMPANY, East St. Louis, Ill. Filed Aug. 22, 1930. Serial No. 304,926.

INDIVIDUALLY WRAPPED



For Bottles Formed of Glass.
Claims use since Mar. 20, 1926.

277,529. (CLASS 45. BEVERAGES, NONALCOHOLIC.) PATRICK F. BELL, Los Angeles, Calif. Filed Feb. 6, 1929. Serial No. 278,928.

ORANGE NOG

For Nonalcoholic, Pure Citrus-Fruit Beverage.
Claims use since Jan. 1, 1928.

TRADE-MARK REGISTRATIONS RENEWED

35,788. WINDING MACHINES. Registered January 15, 1901. UNIVERSAL WINDING COMPANY. Renewed January 15, 1931, to Universal Winding Company, Boston, Mass., a Corporation of Massachusetts, assignee.

35,885. LIQUID LAXATIVE COMPOUNDS. Registered February 12, 1901. CALIFORNIA FIG SYRUP CO., San Francisco, Calif. Renewed February 12, 1931, to Sterling Products (Incorporated), Wheeling, W. Va., a Corporation of West Virginia, assignee by mesne assignments.

35,886. LIQUID PURGATIVE COMPOUNDS. Registered February 12, 1901. CALIFORNIA FIG SYRUP CO., San Francisco, Calif. Renewed February 12, 1931, to Sterling Products (Incorporated), Wheeling, W. Va., a Corporation of West Virginia, assignee by mesne assignments.

35,887. LIQUID PURGATIVE COMPOUNDS. Registered February 12, 1901. CALIFORNIA FIG SYRUP CO., San Francisco, Calif. Renewed February 12, 1931, to Sterling Products (Incorporated), Wheeling, W. Va., a Corporation of West Virginia, assignee by mesne assignments.

36,002. BISCUITS, CRACKERS, WAFERS, SNAPS, AND CAKES. Registered March 5, 1901. NATIONAL BISCUIT COMPANY, of Jersey City, N. J., and Chicago, Ill. Renewed March 5, 1931, to National Biscuit Company, of New York, N. Y., a Corporation of New Jersey.

36,079. STOVES, RANGES, AND HEATERS AND PARTS THEREOF. Registered March 12, 1901. The W. J. Loth Stove Company, Waynesboro, Va., a Corporation of Virginia. Renewed March 12, 1931.

79,493. SUPPOSITORIES FOR THE TREATMENT OF FEMALE DISEASES. Registered September 13, 1910. THE HOME TREATMENT REMEDY COMPANY, Sault Ste. Marie, Mich. Renewed September 13, 1930.

79,604. CERTAIN PIECE GOODS. Registered September 20, 1910. ROGERS & THOMPSON, West New York, N. J., and New York, N. Y. Renewed September 20, 1930, to Loren O. Thompson, doing business as L. O. Thompson Co., New York, N. Y., successor.

79,786. SILK PIECE GOODS. Registered October 4, 1910. ROGERS & THOMPSON, West New York, N. J., and New York, N. Y. Renewed October 4, 1930, to Loren O. Thompson, doing business as L. O. Thompson Co., New York, N. Y., successor.

79,793. TOILET PAPER. Registered October 4, 1910. ARTHUR H. SCOTT, Philadelphia, Pa. Renewed October 4, 1930, to Scott Paper Company, Chester, Pa., a Corporation of Pennsylvania, assignee.

79,845. CERTAIN CHEMICALS. Registered October 11, 1910, to MERCK & Co., New York, N. Y. Renewed October 11, 1930, to Merck & Co. Inc., Rahway, N. J., a Corporation of New Jersey, assignee by mesne assignments.

79,856. A DRESSING AND INVIGORANT FOR THE HAIR. Registered October 11, 1910. PHILO HAY SPECIALTIES CO., Newark, N. J. Renewed October 11, 1930, to Philo Hay Company, Inc., New York, N. Y., a Corporation of New York, assignee.

80,061. CIGARS AND CIGARETTES. Registered November 1, 1910. KUENZLE & STREIFF, New York, N. Y., and Manila, P. I. Renewed November 1, 1930, to Alhambra Cigar & Cigarette Mfg. Co., of Manila, P. I., a Corporation of Philippine Islands, successor.

80,138. MANIFOLDING BOOKS, CERTAIN SHEETS OF WHICH ARE CARBON COATED. Registered November 8, 1910. The MCCASKEY REGISTER COMPANY. Renewed November 8, 1930, to The McCaskey Register Company, Alliance, Ohio, a Corporation of Ohio, assignee.

80,333. PLAIN WHITE, DYED, AND PRINTED PERCALE. Registered December 6, 1910. THE WINDSOR PRINT WORKS, North Adams, Mass., and New York, N. Y. Renewed December 6, 1930, to Consolidated Textile Corporation, New York, N. Y., a Corporation of Delaware, assignee.

80,334. PLAIN WHITE, DYED, AND PRINTED PERCALE. Registered December 6, 1910. THE WINDSOR PRINT WORKS, North Adams, Mass., and New York, N. Y. Renewed December 6, 1930, to Consolidated Textile Corporation, New York, N. Y., a Corporation of Delaware, assignee.

80,393. HORSE AND MULE SHOES. Registered December 13, 1910. THE TREDEGAR COMPANY, Richmond, Va., a Corporation of Virginia. Renewed December 13, 1930.

80,489. HOSE. Registered December 27, 1910. NEW YORK BELTING & PACKING COMPANY LTD., New York, N. Y., and Passaic, N. J. Renewed December 27, 1930, to New York Belting and Packing Company, New York, N. Y., a Corporation of New York, assignee.

80,504. PLAIN WHITE, DYED, AND PRINTED CRETONNE. Registered December 27, 1910. THE WINDSOR PRINT WORKS, North Adams, Mass., and New York, N. Y. Renewed December 27, 1930, to Consolidated Textile Corporation, New York, N. Y., a Corporation of Delaware, assignee.

80,685. HOSE SUPPORTERS. Registered January 17, 1911. A. STEIN & COMPANY, Chicago, Ill., a Corporation of Illinois. Renewed January 17, 1931.

80,691. COTTON FLANNELS. Registered January 17, 1911. WHITTENTON MANUFACTURING CO., Taunton, Mass. Renewed January 17, 1931, to Whittenton Manufacturing Co., Boston, Mass., a Corporation of Massachusetts.

80,869. WOOL AND COTTON PIECE GOODS. Registered February 7, 1911. PACIFIC MILLS, Lawrence and Boston, Mass. Renewed February 7, 1931, to Pacific Mills, Boston, Mass., a Corporation of Massachusetts.

81,038. AN OIL COMPOUND. Registered February 21, 1911. UNION PETROLEUM COMPANY, Wilmington, Del., and Philadelphia, Pa. Renewed February 21, 1931, to Sinclair Refining Company, New York, N. Y., a Corporation of Maine, assignee.

81,041. CANDY. Registered February 21, 1911. F. B. WASHBURN & Co., Brockton, Mass., a Corporation of Massachusetts. Renewed February 21, 1931.

81,150. OLEOMARGARIN. Registered March 7, 1911. JOHN F. JELKE COMPANY, Chicago, Ill., a Corporation of Illinois. Renewed March 7, 1931.

81,151. OLEOMARGARIN. Registered March 7, 1911. JOHN F. JELKE COMPANY, Chicago, Ill., a Corporation of Illinois. Renewed March 7, 1931.

81,152. OLEOMARGARIN. Registered March 7, 1911. JOHN F. JELKE COMPANY, Chicago, Ill., a Corporation of Illinois. Renewed March 7, 1931.

81,174. WHEAT FLOUR. Registered March 7, 1911. J. ALLEN SMITH & COMPANY, Knoxville, Tenn., a Corporation of Maine. Renewed March 7, 1931.

81,181. A REMEDY FOR RHEUMATISM, GOUT, AND LUMBAGO. Registered March 7, 1911. TURNER'S PHARMACY. Renewed March 7, 1931, to G. Ernest Turner, doing business as Turner's Pharmacy, Richmond, Va., successor.

81,240. PLAIN WHITE, DYED, AND PRINTED WOOL AND COTTON MIXED FABRICS. Registered March 14, 1911. THE WINDSOR PRINT WORKS, North Adams, Mass., and New York, N. Y. Renewed March 14, 1931, to Consolidated Textile Corporation, New York, N. Y., a Corporation of Delaware, assignee.

LABELS

REGISTERED NOVEMBER 11, 1930

38,219.—*Title:* CARNATION. For Fresh Vegetables. A. ARENA & Co., LTD., Los Angeles, Calif. Published September 27, 1930.

38,220.—*Title:* BONOMO'S SALT WATER TAFFEE. For Confections, Particularly Taffy Candy. ALBERT BONOMO, Coney Island, Brooklyn, N. Y. Published April 1, 1930.

38,221.—*Title:* BUFFALO-BARLEY MALT SYRUP. For Malt Syrup. BUFFALO MALT CO. INC., Buffalo, N. Y. Published September 15, 1930.

38,222.—*Title:* CERTIFIED VITAMIN-RICH NURSERY FOODS. For Nursery Foods. CURTICE BROTHERS CO., Rochester, N. Y. Published August 21, 1930.

38,223.—*Title:* DUGAN'S NEW ENGLAND SWEDISH RYE. For Rye Bread. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published July 15, 1930.

38,224.—*Title:* DUGAN'S HOME MADE BREAD SLICED. For Bread. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published September 22, 1930.

38,225.—*Title:* DUGAN'S 50-50 BREAD. For Bread. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published September 15, 1930.

38,226.—*Title:* NOEL. For Perfumes. PERCIVAL E. FALKINGHAM, New York, N. Y. Published September 24, 1930.

38,227.—*Title:* GARDINER SOLUTION—STAINS RUN FROM 101. For Cleansing, Germicidal, Deodorizing, Disinfecting, Etc. GARDINER MANUFACTURING COMPANY, INC., Buffalo, N. Y. Published May 3, 1928.

38,228.—*Title:* WHEATIES. For Whole-Wheat Flakes with All the Bran. GENERAL MILLS, INC., Minneapolis, Minn. Published September 23, 1930.

38,229.—*Title:* HENRY'S MARVELENE SOLUTION. For Washing Solution. CHARLES L. HENRY, doing business as Marvelene Company, Blasdell, N. Y. Published November 27, 1929.

38,230.—*Title:* QUALITY. For Hosiery. HUDSON SILK HOSIERY CO., INC., Charlotte, N. C. Published March 10, 1930.

38,231.—*Title:* GOLDEN STAR. For Olive Oil. THE ITALIAN IMPORTING CO. OF NEW YORK, doing business as Bruno Olive Oil Company, New York, N. Y. Published January 15, 1912.

38,232.—*Title:* E. F. KEMP SALTED NUTS, ETC. For Salted Nuts. EDWARD F. KEMP, Somerville, Mass. Published August 1, 1930.

38,233.—*Title:* IMPERIAL. For Mincemeat. LEE & CADY, Detroit, Mich. Published August 13, 1930.

38,234.—*Title:* NATURE'S TASTIEST MORSELS ARE NUTS. For Nut Meats and Nut Products. MACFARLANE NUT COMPANY, Oakland, Calif. Published July 12, 1930.

38,235.—*Title:* ERMCO. For Cleansing Cream. E. R. MANSFIELD CO. INC., doing business as Ermco Laboratory, Los Angeles, Calif. Published July 29, 1930.

38,236.—*Title:* NIBLETS. For Canned Corn. MINNESOTA VALLEY CANNING COMPANY, Le Sueur, Minn. Published August 15, 1930.

38,237.—*Title:* CANADIAN PALE. For a Malt Beverage. LOUIS F. NEUWEILER'S SONS, Allentown, Pa. Published July 29, 1930.

38,238.—*Title:* VICTORY BRAND. For Butter. NORTH SIDE PACKING COMPANY, Pittsburgh, Pa. Published July 15, 1930.

38,239.—*Title:* ORSINGER'S SPECIAL. For Bread. ORSINGER'S BAKERY, La Salle, Ill. Published September 12, 1930.

38,240.—*Title:* BLU KROSS. For Paper Cloth. SAUQUOIT PAPER CO., INC., New Hartford, N. Y. Published September 18, 1930.

38,241.—*Title:* SOFFOS CANDY. For Candies. THEODOR G. SOFFOS, doing business as Soffos Sweets Service System, New York, N. Y. Published September 30, 1930.

38,242.—*Title:* HARBOURT'S MENTHOL BALSAM. For Medicinal Preparation for Coughs, Colds, Etc. THE STANDARD HARBOURT'S DRUG STORES, Trenton, N. J. Published August 22, 1930.

38,243.—*Title:* E O HONEY. For Honey. THOM BROTHERS, Hermiston, Oreg. Published August 2, 1930.

38,244.—*Title:* VISCO HANDY HOUSEHOLD OIL. For Lubricating Oil, Etc. THE VISCO CHEMICAL PRODUCTS CO., Cleveland, Ohio. Published September 29, 1930.

38,245.—*Title:* TIP-TOP SLICED SANDWICH BREAD. For Bread. WARD BAKING COMPANY, New York, N. Y. Published March 19, 1930.

38,246.—*Title:* WILLIAMS DENTAL CREAM. For Dental Cream. THE J. B. WILLIAMS COMPANY, Glastonbury, Conn. Published August 28, 1930.

PRINTS

REGISTERED NOVEMBER 11, 1930

12,794.—*Title:* "THE LITTLE DRAKES, TWO JOLLY NAUTICAL SPIRITS DESCENDED FROM SIR FRANCIS HIMSELF". For Wheat Breakfast Food. THE CREAM OF WHEAT CORPORATION, Minneapolis, Minn. Published October 10, 1930.

12,795.—*Title:* COULD IT BE THAT MY HUSBAND WAS ASHAMED OF OUR BOY? For Wheat Breakfast Food. THE CREAM OF WHEAT CORPORATION, Minneapolis, Minn. Published October 5, 1930.

12,796.—*Title:* PFLUEGER FISHING TACKLE FOR EVERY SPECIES OF GAME FISH. For Fishing Tackle. THE ENTERPRISE MANUFACTURING CO., Akron, Ohio. Published April 29, 1930.

12,797.—*Title:* HOW TO FIRE POCAHONTAS COAL. For Coal. POCAHONTAS OPERATORS ASSOCIATION, Bluefield, W. Va. Published September 30, 1930.

12,798.—*Title:* HOW TO FIRE POCAHONTAS COAL—THE CONICAL METHOD. For Coal. POCAHONTAS OPERATORS ASSOCIATION, Bluefield, W. Va. Published September 30, 1930.

12,799.—*Title:* THE SUN POURS FRAGRANCE INTO THESE TOBACCOS. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published April 21, 1930.

12,800.—*Title:* DO YOU REALLY KNOW YOUR CIGARETTE? For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published April 28, 1930.

12,801.—*Title:* GUS BROUGHT HIS FOUR KIDS ETC. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published May 1, 1930.

12,802.—*Title:* FIRST FOR PLEASURE. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published May 5, 1930.

12,803.—*Title:* DIVERTISSEMENTS. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published May 11, 1930.

12,804.—*Title:* THE CHORUS. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published April 14, 1930.

12,805.—*Title:* THE BLEND THAT REVOLUTIONIZED SMOKING. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published April 14, 1930.

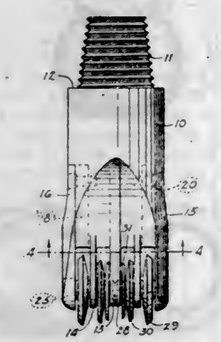
12,806.—*Title:* DON'T DENY YOURSELF THE LUXURY OF CAMELS. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published April 16, 1930.

12,807.—*Title:* COLONIAL 4 O'CLOCK COFFEE CLUB. For Coffee. WHITTEN-RADER-JOHNSON INC., Minneapolis, Minn. Published July 7, 1930.

REISSUES

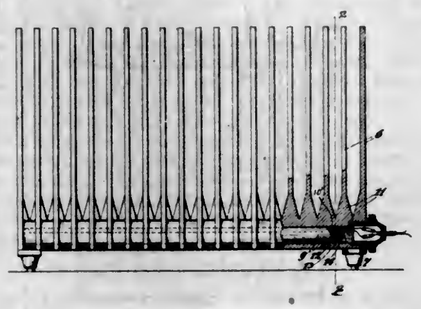
NOVEMBER 11, 1930

17,856. MULTIPLE-CUTTER-DISK BIT. IVAN C. BELL, Dallas, Tex., assignor to The Guiberson Corporation, Dallas, Tex., a Corporation of Delaware. Filed May 7, 1929. Serial No. 361,227. Original No. 1,657,604, dated Jan. 31, 1928, Serial No. 749,547, filed Nov. 12, 1924. 35 Claims. (Cl. 255—71.)



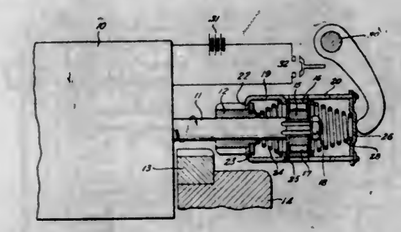
1. In a multiple cutter disk bit, a bit body, axes mounted transversely of the body in offset relation, cutter disks initially loosely mounted on said axles and movable laterally when rotating, and supports for the outer ends of the axles.

17,857. MEANS OF HEATING INCLOSURES ELECTRICALLY. CLARENCE L. BURGHER, New York, N. Y. Filed Sept. 26, 1930. Serial No. 484,863. Original No. 1,660,218, dated Feb. 21, 1928, Serial No. 65,106, filed Oct. 27, 1925. Reissue No. 17,386, dated July 30, 1929, Serial No. 366,074, filed May 24, 1929. 1 Claim. (Cl. 219—34.)



An electric heater consisting of a series of substantially unobstructed ascending air-heating ducts having heat-conducting walls of a length substantially greater than their width and an electrical heating element electrically insulated from but in direct heat-conducting relation to the duct walls.

17,858. POWER-TRANSMISSION MECHANISM. FARNUM F. DORSEY, South Orange, N. J., and CHESTER W. CRUMRINE, Rochester, N. Y., assignors, by mesne assignments, to North East Appliance Corporation, Rochester, N. Y., a Corporation of New York. Filed Apr. 11, 1930. Serial No. 443,570. Original application filed June 4, 1923, Serial No. 643,231. Renewed Dec. 9, 1925. Original No. 1,590,150, dated June 22, 1926. 14 Claims. (Cl. 74—7.)



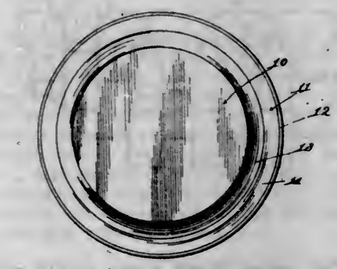
1. Power-transmission mechanism comprising: a gear; a driving pinion movable axially into and out of mesh with the gear; and manually-operable means for simultaneously rotating said pinion and moving it axially, said means being yieldable as to each of such motions so that either may continue alone when the other is arrested.

17,859. INNER-TUBE PATCH. CLARENCE E. DUNLAP, Sioux City, Iowa. Filed Sept. 8, 1930. Serial No. 480,605. Original No. 1,756,183, dated Apr. 29, 1930, Serial No. 330,820, filed Jan. 7, 1929. 2 Claims. (Cl. 152—26.)



2. An inner tube patch of preformed shape, comprising a layer of uncured rubber, a layer of protective fabric adhering to the adhesive face thereof, and a layer of cured rubber united with the rear face thereof, an edge of the cured layer being bevelled through a majority of its thickness, and the remainder of its thickness, together with all of the uncured layer and the fabric, being cut off squarely to leave a shoulder of cured rubber completely covering the rear face of the uncured layer.

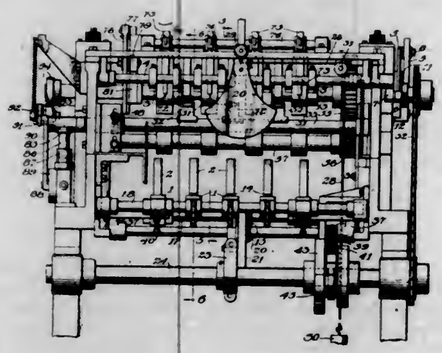
17,860. BEVEL-CUT PATCH FOR TUBES AND OTHER RUBBER GOODS. JACOB G. GROSS, San Gabriel, Calif. Filed May 5, 1930. Serial No. 449,996. Original No. 1,596,430, dated Aug. 17, 1926, Serial No. 733,172, filed Aug. 20, 1924. 4 Claims. (Cl. 152—26.)



4. A rubber patch consisting of a layer of cured rubber, and a layer of uncured rubber therebeneath having its

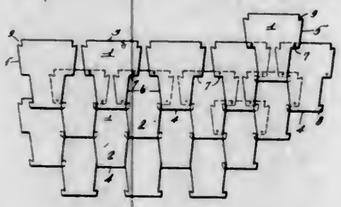
edges projecting symmetrically from beneath the edges of the layer of cured rubber, said two layers being round and both having annular beveled edges.

17,861. PNEUMATIC FEED MECHANISM. SEVERIN HALVORSEN, Chicago, Ill., assignor to The Newspaper Stuffing Machine Company, Seattle, Wash., a Corporation of Washington. Filed Dec. 18, 1929. Serial No. 415,110. Original No. 1,676,897, dated July 10, 1928, Serial No. 757,340, filed Dec. 22, 1924. 10 Claims. (Cl. 271—28.)



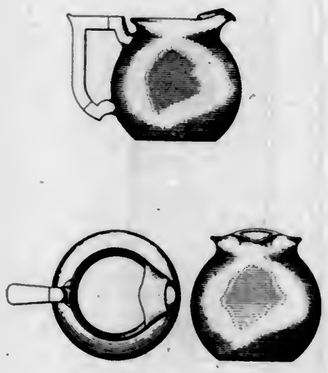
1. Feeding mechanism in which the articles are arranged in vertical position, said feeding mechanism having means acting upon the articles to advance them in a substantially horizontal manner and feeding devices comprising suckers for engaging and pulling out the upper edge of the foremost article, means for reciprocating said suckers vertically, and for swinging the same outwardly when moved downwardly, a rotary segment cooperating with the suckers and a gripping roll cooperating with said rotary segment.

17,862. ROOFING SHINGLE. WILLIAM A. HARRIS, Newton, Mass., assignor to Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Filed June 10, 1930. Serial No. 460,242. Original No. 1,732,229, Serial No. 11,965, filed Feb. 27, 1925. 6 Claims. (Cl. 108—7.)



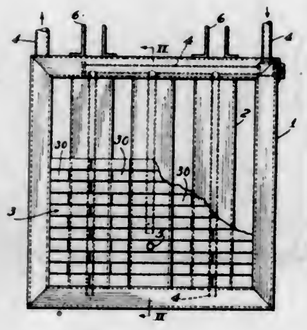
3. A flexible roofing shingle having parallel ends, the upper portion, which is substantially one half the length of the shingle, being wider than the lower portion, said shingle having lateral shoulders located substantially in the transverse median line thereof, and the lower portion having tabs projecting laterally from the extremity thereof.

17,863. PITCHER. MARSDEN J. PERRY, Jr., Providence, R. I. Filed June 12, 1929. Serial No. 31,655. Term of patent 14 years. Original No. 77,027, dated Nov. 27, 1928, Serial No. 27,705, filed Aug. 4, 1928, for 14 years.



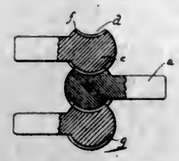
The ornamental design for a pitcher substantially as shown.

17,864. FURNACE DOOR. EDWARD WILLIAMS, Charleroi, Pa., assignor, by mesne assignments, to Blaw-Knox Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed May 23, 1929. Serial No. 365,585. Original No. 1,690,606, dated Nov. 6, 1928, Serial No. 209,274, filed July 29, 1927. 11 Claims. (Cl. 122—498.)



11. A wrought metal furnace door having a closed top and comprising a hollow rim with spaced tubular members extending across the rim and forming a continuous water space therewith.

17,865. FASTENING FOR WEARING APPAREL AND THE LIKE. MARTIN WINTERHALTER, Halle-on-the-Saale, Germany, assignor, by mesne assignments, to Mishawaka Rubber & Woolen Manufacturing Company, Mishawaka, Ind., a Corporation of Indiana. Filed Feb. 26, 1927. Serial No. 171,755. Original No. 1,610,839, dated Dec. 14, 1926, Serial No. 50,508, filed Aug. 15, 1925, and in Germany Nov. 25, 1924. 15 Claims. (Cl. 24—205.)



1. A fastening for wearing apparel and the like comprising staggered rows of fastening members connected to the edges to be joined and adapted to mesh and interlock, each member being formed with interlocking means in the form of a spherical head and with a semispherical recess in said head, the heads being formed with intermeshing ribs and grooves which break the continuity of the spherical surfaces of said head and recess so as to prevent pivotal relative displacement of the members, and a slide for guiding the members successively into and out of engagement with each other.

17,866. CIRCULATING TUBE. JAMES F. ARTHUR, Dickson City, Pa. Filed Feb. 18, 1928. Serial No. 255,454. Original No. 1,639,252, dated Aug. 16, 1927. Serial No. 139,209, filed Oct. 2, 1926. 9 Claims. (Cl. 137—111.)



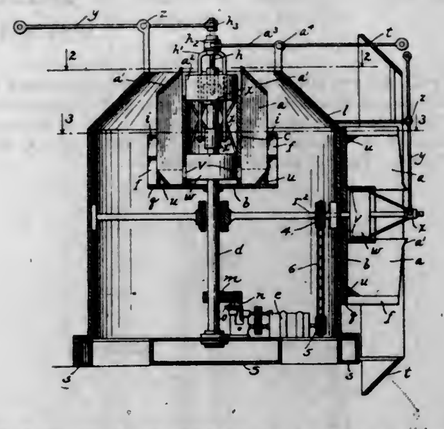
1. A circulating tube for hot water heating boilers, comprising a tube of relatively thin metal, one end of the tube being closed and the sides of the tube having holes for lateral exit of water, the other end of the tube being anchored in a threaded bushing of heavier metal, the bushing having an interior annular recess and the tube having an outwardly extending annular shoulder fitting into the recess, whereby the tube and bushing are permanently secured together.

17,867. COMPOSITION OF MATTER AND PROCESS OF FORMING SAME. MARC DARRIN, Pittsburgh, Pa., assignor to F. N. Burt Company Limited, Toronto, Canada, a Corporation of Ontario, Canada. Filed Dec. 21, 1929. Serial No. 415,819. Original application filed June 10, 1924, Serial No. 719,059. Renewed Mar. 11, 1927. Original No. 1,644,711, dated Oct. 11, 1927. 19 Claims. (Cl. 106—12.)

18. A substance of the character described comprising a continuous porous material having its pores completely filled with a substance containing free sulphur and having the physical characteristics of free sulphur and crystallized into contiguous cobering rhombic crystals forming a durable, impermeable mass.

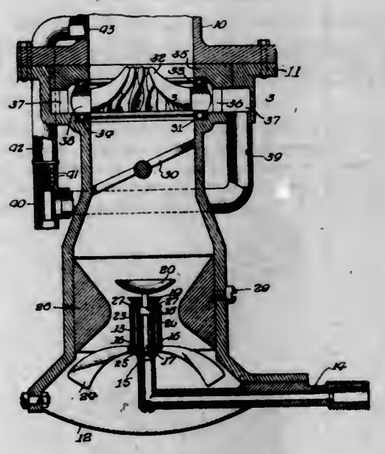
17,868. AIRCRAFT DEVICE. ELMER GRANT STILL, Livermore, Calif. Filed Mar. 13, 1928. Serial No. 261,367. Original No. 1,634,239, dated June 28, 1927, Serial No. 697,953, filed Mar. 8, 1924. 9 Claims. (Cl. 244—18.)

1. In an aircraft device, a disc; a central axis; a plurality of practically radially disposed rotating vanes, the rotating vanes creating a partial vacuum on their side of said disc by centrifugal action, and means for



regulating, during the operation of the device, the degree of the partial vacuum on said disc otherwise than by varying the speed of rotation of said vanes.

17,869. MIXING DEVICE FOR CARBURETORS. JOHANNES B. KESSEL, Chicago, Ill. Filed May 21, 1930. Serial No. 454,466. Original application filed May 2, 1925, Serial No. 27,882, Patent No. 1,636,187, dated July 19, 1927. Divided and application filed Nov. 1, 1926, Serial No. 145,393, now Patent No. 1,717,509, dated June 18, 1929. 11 Claims. (Cl. 48—180.)

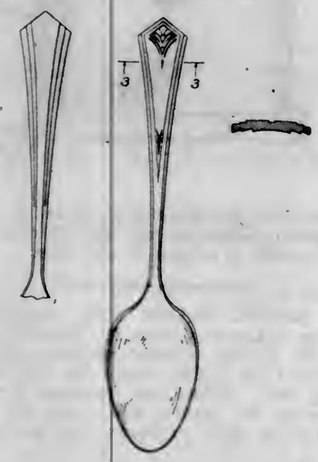


8. A mixing device located on one side of the throttle valve of a carburetor, including a rotor, said rotor comprising an annular body, a mixing blade disposed within and extending in a direction across the annular body, propeller portions connected with said annular body and encompassing said mixing blade, and an air passage for directing air against the propeller portions for rotating the rotor, said passage having communication with the mixing chamber whereby suction created in said chamber will cause air to be entrained through said passage and against the said propeller blades.

DESIGNS

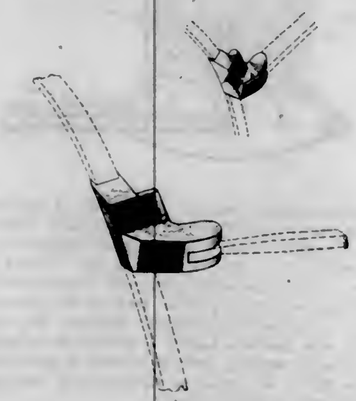
NOVEMBER 11, 1930

82,472. SPOON OR SIMILAR ARTICLE. GROSVENOR N. ALLEN and ELMER H. KREBS, Oneida, N. Y., assignors to Oneida Community, Limited, Oneida, N. Y., a Corporation of New York. Filed Jan. 21, 1930. Serial No. 34,206. Term of patent 14 years.



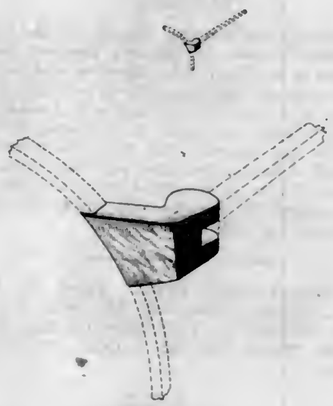
The ornamental design for a spoon or similar article as shown and described.

82,473. END PIECE FOR AN OPHTHALMIC MOUNTING. NELSON M. BAKER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Aug. 26, 1929. Serial No. 32,586. Term of patent 14 years.



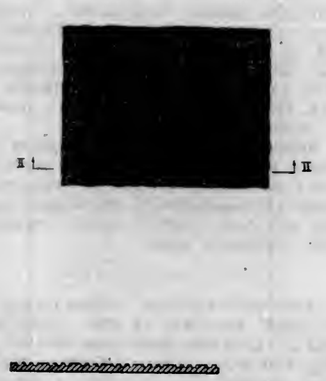
The ornamental design for an endpiece for an ophthalmic mounting as shown and described.

82,474. END PIECE FOR AN OPHTHALMIC MOUNTING. NELSON M. BAKER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Apr. 5, 1930. Serial No. 35,176. Term of patent 14 years.



The ornamental design for an endpiece for an ophthalmic mounting as shown and described.

82,475. RUBBER OR SIMILAR MATERIAL. JO D. BERWICK, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 24, 1929. Serial No. 32,855. Term of patent 14 years.



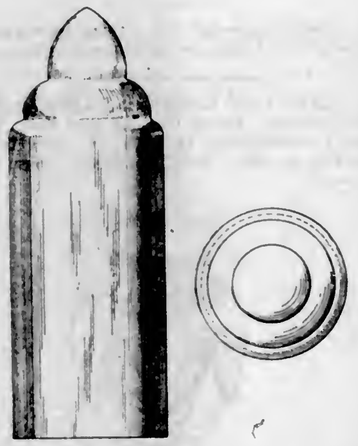
The ornamental design for rubber or similar material, as shown.

82,476. TEXTILE FABRIC. LUCIEN BIVA, Brooklyn, N. Y., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J., a Corporation of New Jersey. Filed July 18, 1929. Serial No. 32,025. Term of patent 3½ years.



The ornamental design for a textile fabric substantially as shown and described.

82,477. GLASS SHADE FOR A LIGHTING FIXTURE OR ARTICLE OF SIMILAR NATURE. HUGO BOHL, Westfield, N. J., assignor to Radiant Lighting Fixture Co., Inc., New York, N. Y. Filed Feb. 12, 1930. Serial No. 34,501. Term of patent 3½ years.



The ornamental design for a glass shade for a lighting fixture, or article of similar nature, as shown.

82,478. GLASS SHADE FOR A LIGHTING FIXTURE OR ARTICLE OF SIMILAR NATURE. HUGO BOHL, Westfield, N. J., assignor to Radiant Lighting Fixture Co., Inc., New York, N. Y. Filed Feb. 12, 1930. Serial No. 34,503. Term of patent 3½ years.



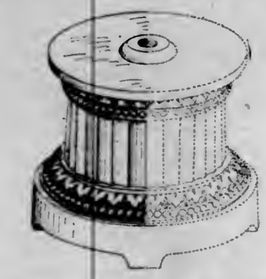
The ornamental design for a glass shade for a lighting fixture, or article of similar nature, as shown.

82,479. LAMP-BASE MEMBER OR ARTICLE OF SIMILAR NATURE. FRANK COLLINS, New York, N. Y., assignor to Metropolitan Lamp Co., Inc., New York, N. Y. Filed July 25, 1930. Serial No. 36,465. Term of patent 3½ years.



The ornamental design for a lamp base member, or article of similar nature, as shown.

82,480. LAMP BASE MEMBER OR ARTICLE OF SIMILAR NATURE. FRANK COLLINS, New York, N. Y., assignor to Metropolitan Lamp Co., Inc., New York, N. Y. Filed July 25, 1930. Serial No. 36,466. Term of patent 3½ years.



The ornamental design for a lamp base member, or article of similar nature, as shown and described.

82,481. LAMP BASE MEMBER OR ARTICLE OF SIMILAR NATURE. FRANK COLLINS, New York, N. Y., assignor to Metropolitan Lamp Co., Inc., New York, N. Y. Filed July 25, 1930. Serial No. 36,467. Term of patent 3½ years.



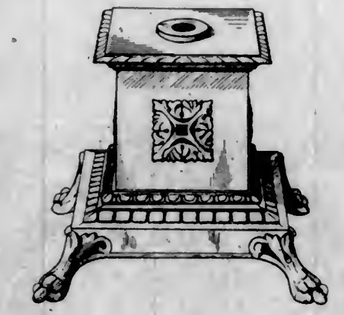
The ornamental design for a lamp base member, or article of similar nature, as shown.

82,482. LAMP BASE MEMBER OR ARTICLE OF SIMILAR NATURE. FRANK COLLINS, New York, N. Y., assignor to Metropolitan Lamp Co., Inc., New York, N. Y. Filed July 25, 1930. Serial No. 36,468. Term of patent 3½ years.



The ornamental design for a lamp base member, or article of similar nature, as shown and described.

82,483. LAMP BASE MEMBER OR ARTICLE OF SIMILAR NATURE. FRANK COLLINS, New York, N. Y., assignor to Metropolitan Lamp Co., Inc., New York, N. Y. Filed July 25, 1930. Serial No. 36,469. Term of patent 3½ years.



The ornamental design for a lamp base member, or article of similar nature, as shown.

82,484. LAMP BASE MEMBER OR ARTICLE OF SIMILAR NATURE. FRANK COLLINS, New York, N. Y., assignor to Metropolitan Lamp Co., Inc., New York, N. Y. Filed July 25, 1930. Serial No. 36,470. Term of patent 3½ years.



The ornamental design for a lamp base member, or article of similar nature, as shown and described.

82,485. LAMP BASE MEMBER OR ARTICLE OF SIMILAR NATURE. FRANK COLLINS, New York, N. Y., assignor to Metropolitan Lamp Co., Inc., New York, N. Y. Filed July 25, 1930. Serial No. 36,471. Term of patent 3½ years.



The ornamental design for a lamp base member, or article of similar nature, as shown and described.

82,486. LAMP BASE MEMBER OR ARTICLE OF SIMILAR NATURE. FRANK COLLINS, New York, N. Y., assignor to Metropolitan Lamp Co., Inc., New York, N. Y. Filed July 25, 1930. Serial No. 36,472. Term of patent 3½ years.



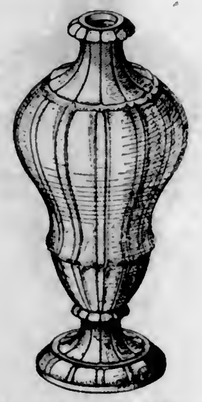
The ornamental design for a lamp base member, or article of similar nature, as shown and described.

82,487. LAMP BASE MEMBER OR ARTICLE OF SIMILAR NATURE. FRANK COLLINS, New York, N. Y., assignor to Metropolitan Lamp Co., Inc., New York, N. Y. Filed July 25, 1930. Serial No. 36,473. Term of patent 3½ years.



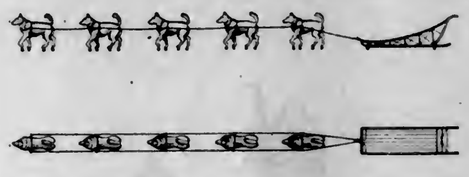
The ornamental design for a lamp base member, or article of similar nature, as shown and described.

82,488. LAMP BASE MEMBER OR ARTICLE OF SIMILAR NATURE. FRANK COLLINS, New York, N. Y., assignor to Metropolitan Lamp Co., Inc., New York, N. Y. Filed July 25, 1930. Serial No. 36,474. Term of patent 3½ years.



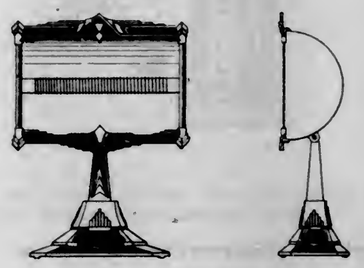
The ornamental design for a lamp base member, or article of similar nature, as shown.

82,489. TOY DOG TEAM AND SLED. JAMES EDWIN DAVIS, Glen Cove, N. Y. Filed Aug. 13, 1930. Serial No. 36,653. Term of patent 3½ years.



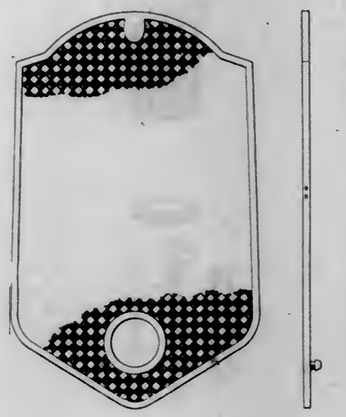
The ornamental design for a toy dog team and sled, as shown.

82,490. ELECTRIC HEATER. ALBERT E. ELLINGER, Snyder, N. Y., assignor to Markel Electric Products, Inc., Buffalo, N. Y., a Corporation of New York. Filed May 31, 1930. Serial No. 35,875. Term of patent 3½ years.



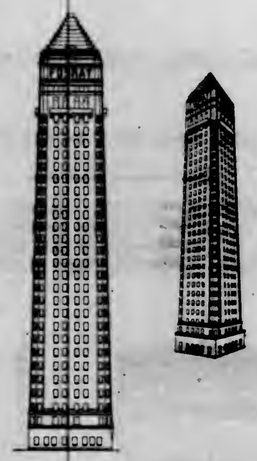
The ornamental design for an electric heater substantially as shown.

82,491. AUTOMOBILE RADIATOR SCREEN. MAX M. FISCHER, Brooklyn, N. Y. Filed Aug. 15, 1930. Serial No. 36,677. Term of patent 7 years.



The ornamental design for an automobile radiator screen, substantially as shown.

82,492. BUILDING. WILBUR B. FOSHAY and GOTTLIEB R. MAGNEY, Minneapolis, Minn., assignors to W. B. Foshay Co., Minneapolis, Minn. Filed Feb. 1, 1929. Serial No. 29,871. Term of patent 14 years.



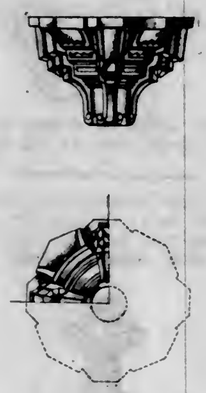
The ornamental design for a building, as shown.

82,493. VANITY BOX. WALTER A. GOERTZ, East Orange, N. J., assignor to August Goertz & Company, Inc., a Corporation of New Jersey. Filed Aug. 27, 1930. Serial No. 36,790. Term of patent 7 years.



The ornamental design for a vanity box, as shown.

82,494. LIGHTING-FIXTURE CANOPY OR THE LIKE. HENRY GOODFRIEND, Chicago, Ill., assignor to Mutual Metal Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 31, 1930. Serial No. 35,082. Term of patent 3½ years.



The ornamental design for a lighting fixture canopy or the like, as shown and described.

82,495. LIGHTING-FIXTURE-GLOBE HOLDER OR THE LIKE. HENRY GOODFRIEND, Chicago, Ill., assignor to Mutual Metal Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 31, 1930. Serial No. 35,083. Term of patent 3½ years.



The ornamental design for a lighting fixture globe holder or the like, as shown and described.

82,496. OUTER DRESS GARMENT FOR LADIES' WEAR. HARRY GREENBAUM, Kansas City, Mo. Filed May 23, 1930. Serial No. 35,732. Term of patent 3½ years.



The ornamental design for an outer dress garment for ladies' wear as shown.

82,497. GLOBE FOR A LIGHTING FIXTURE. CARL F. HAAS, South Bend, Ind., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed June 16, 1930. Serial No. 36,057. Term of patent 14 years.



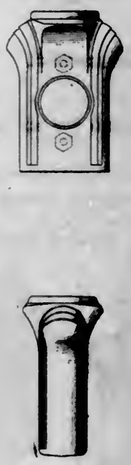
The ornamental design for a globe for a lighting fixture substantially as shown.

82,498. FINIAL FOR LIGHTING FIXTURES OR SIMILAR ARTICLES. CARL F. HAAS, South Bend, Ind., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed June 16, 1930. Serial No. 36,059. Term of patent 14 years.



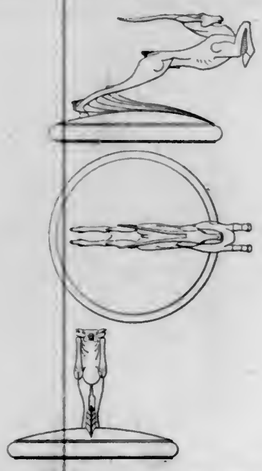
The ornamental design for a finial for lighting fixtures or similar articles substantially as shown.

82,499. ELECTRICAL CONNECTER OR SIMILAR ARTICLE. DONALD L. HADLEY, Mansfield, Ohio, assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Aug. 9, 1930. Serial No. 36,612. Term of patent 14 years.



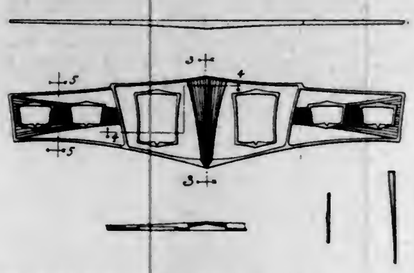
The ornamental design for an electrical connecter or similar article, as shown and described.

82,500. AUTOMOBILE FILLER CAP OR SIMILAR ARTICLE. HERBERT V. HENDERSON, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a Corporation of Delaware. Filed Dec. 21, 1929. Serial No. 33,889. Term of patent 14 years.



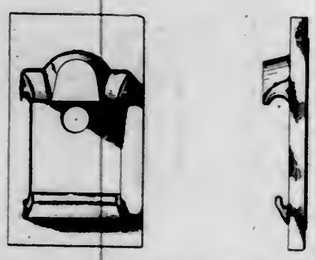
The ornamental design for an automobile filler cap or similar article, substantially as shown.

82,501. INSTRUMENT PANEL. HERBERT V. HENDERSON, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a Corporation of Delaware. Filed July 28, 1930. Serial No. 36,493. Term of patent 3½ years.



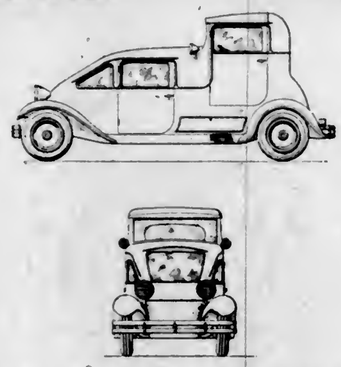
The ornamental design for an instrument panel substantially as shown.

82,502. MATCH-HOLDING PAPER WEIGHT. ARTHUR J. HERSCHMANN, New York, N. Y. Filed June 18, 1930. Serial No. 36,083. Term of patent 14 years.



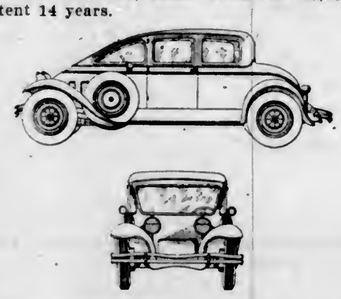
The ornamental design for a match holding paper weight, as shown.

82,503. AUTOMOBILE. PAUL H. HORWITT, Hartsdale, N. Y. Filed Aug. 23, 1930. Serial No. 36,743. Term of patent 14 years.



The ornamental design for an automobile as shown.

82,504. AUTOMOBILE. PAUL H. HORWITT, Hartsdale, N. Y. Filed Sept. 13, 1930. Serial No. 36,960. Term of patent 14 years.



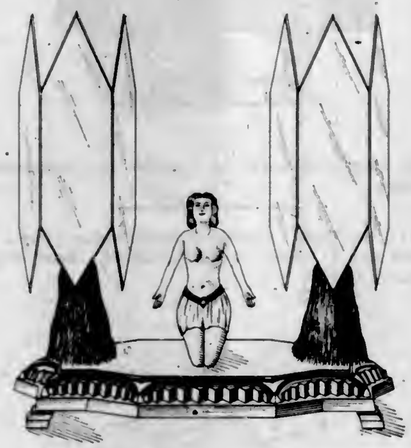
The ornamental design for an automobile as shown.

82,505. WALL MOUNTING FOR A HAND TELEPHONE. DOUGLAS H. KING, Irvington, and HAROLD T. MARTIN, Ridgewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed June 13, 1930. Serial No. 36,045. Term of patent 14 years.



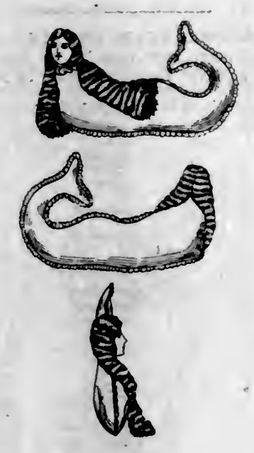
The ornamental design for a wall mounting for a hand telephone, as shown and described.

82,506. LAMP OR ARTICLE OF ANALOGOUS NATURE. MICHAEL KIWAD, New York, N. Y., assignor to La Belle Specialty Co. Inc., a Corporation of New York. Filed Aug. 30, 1930. Serial No. 36,843. Term of patent 3½ years.



The ornamental design for a lamp or article of analogous nature substantially as shown and described.

82,507. PILLOW. WILLIAM KUSHLIN and HERMAN KESNER, Brooklyn, and IRVING OLSTIK, New York, N. Y. Filed Feb. 21, 1930. Serial No. 34,624. Term of patent 3½ years.



The ornamental design for a pillow, as shown.

82,508. BRACELET CHAIN. SIGMUND L. LEDERER, Providence, R. I., assignor to Providence Stock Company, a Corporation of Rhode Island. Filed June 24, 1930. Serial No. 36,154. Term of patent 3½ years.



The ornamental design for a bracelet chain, substantially as shown.

82,509. CLOCK CASE OR SIMILAR ARTICLE. ABRAHAM LEVY, Brooklyn, N. Y. Filed Jan. 22, 1930. Serial No. 34,209. Term of patent 7 years.



The ornamental design for a clock case or similar article, as shown and described.

82,510. ENSEMBLE DRESS. DOROTHY LONG, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 8, 1930. Serial No. 36,596. Term of patent 3½ years.



The ornamental design for an ensemble dress substantially as shown and described.

82,511. TEXTILE FABRIC. HARRY MAURUS, New York, N. Y., assignor to Duplan Silk Corporation, New York, N. Y., a Corporation of Delaware. Filed July 17, 1930. Serial No. 36,385. Term of patent 3½ years.



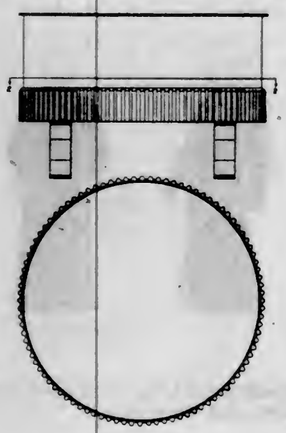
The ornamental design for a textile fabric substantially as shown and described.

82,512. OPHTHALMIC MOUNTING. ROBERT R. MCCOY, Cumberland, Md., assignor to White and Haines Optical Co., Columbus, Ohio, a Corporation of Ohio. Filed May 18, 1929. Serial No. 31,288. Term of patent 14 years.

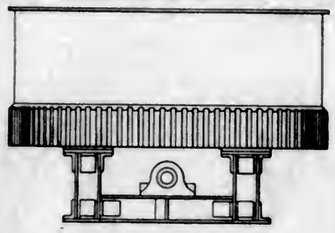


The ornamental design for an ophthalmic mounting substantially as shown.

82,513. MULLER PAN. ROY H. MCELROY and PAUL A. MEEHAN, Dayton, Ohio, assignors to Carol Engineering, Inc., Dayton, Ohio, a Corporation of Ohio. Filed July 23, 1930. Serial No. 36,451. Term of patent 7 years.



82,513.—Continued.



The ornamental design for a muller pan, substantially as shown.

82,514. SANDAL. ROBERT MONSCH, Union City, N. J. Filed May 12, 1930. Serial No. 35,591. Term of patent 3½ years.



The ornamental design for a sandal, as shown.

82,515. ELECTRIC BULB OR SIMILAR ARTICLE. GOTTFRIED NIEBEL, New York, N. Y. Filed Dec. 5, 1929. Serial No. 33,057. Term of patent 14 years.



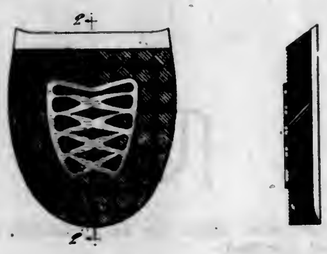
The ornamental design for an electric bulb or similar article substantially as shown.

82,516. SHOE SOLE. LAURENCE M. OAKLEY, Trenton, N. J. Filed Aug. 5, 1930. Serial No. 36,558. Term of patent 7 years.



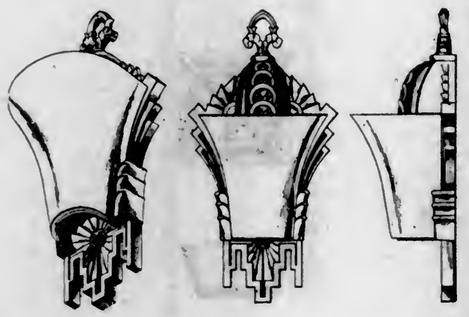
The ornamental design for a shoe sole as shown.

82,517. SHOE HEEL. LAURENCE M. OAKLEY, Trenton, N. J. Filed Aug. 5, 1930. Serial No. 36,559. Term of patent 7 years.



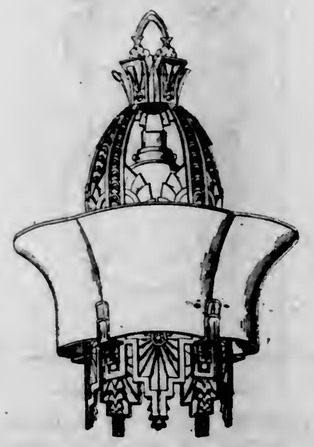
The ornamental design for a shoe heel as shown.

82,518. LIGHTING FIXTURE. ALBERT J. D. OHM, Oak Park, Ill., assignor to Beardslee Chandelier Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed June 25, 1930. Serial No. 36,170. Term of patent 3½ years.



The ornamental design for a lighting fixture as shown.

82,519. LIGHTING FIXTURE. ALBERT J. D. OHM, Oak Park, Ill., assignor to Beardslee Chandelier Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed July 31, 1930. Serial No. 36,526. Term of patent 3½ years.



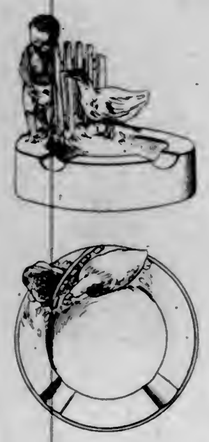
The ornamental design for a lighting fixture as shown and described.

82,520. SHOE BUCKLE. ORLANDO RICHARD RECCHIA, Cranston, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Filed Aug. 20, 1930. Serial No. 36,717. Term of patent 3½ years.



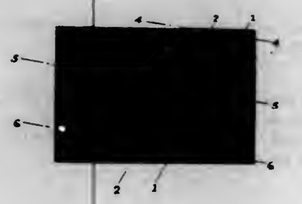
The ornamental design for a shoe buckle as shown.

82,521. ASH RECEIVER. JOHN B. SCELZI, Hopewell, Va. Filed Apr. 3, 1930. Serial No. 35,144. Term of patent 7 years.



The ornamental design for an ash receiver as shown.

82,522. KNITTED FABRIC OR SIMILAR ARTICLE. MOSES SCHREIBER, New York, N. Y., assignor to Allentown Knit Fabrics Company, New York, N. Y., a Corporation of Pennsylvania. Filed May 15, 1930. Serial No. 35,652. Term of patent 7 years.



The ornamental design for a knitted fabric or similar article substantially as shown and described.

82,523. BABY'S SHOE BOX. BENNO SCHUBART, Nuremberg, Germany, assignor to the Firm Vereinigte Schuhfabriken Berneis-Wessels, A. G., Augsburg-Oberhausen, Germany, a German Firm. Filed Mar. 6, 1930, Serial No. 34,758, and in Germany Nov. 16, 1929. Term of patent 7 years.



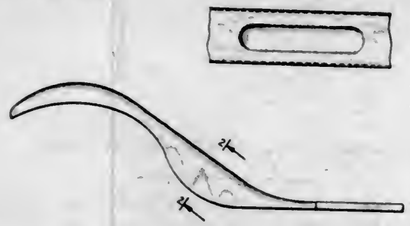
The ornamental design for a baby's shoe box, as shown and described.

82,524. BABY'S SHOE BOX. BENNO SCHUBART, Nuremberg, Germany, assignor to the Firm Vereinigte Schuhfabriken Berneis-Wessels, A. G., Augsburg-Oberhausen, Germany, a Firm of Germany. Filed Mar. 6, 1930, Serial No. 34,759, and in Germany Nov. 16, 1929. Term of patent 7 years.



The ornamental design for a baby's shoe box, as shown and described.

82,525. FENDER. JOSEPH SCHULMAN, Brooklyn, N. Y. Filed Nov. 15, 1929. Serial No. 33,463. Term of patent 14 years.



The ornamental design for an automobile fender as shown and described.

82,526. CONTAINER FOR PASTRY OR THE LIKE. JOSEPH SICILIANI, Chicago, Ill. Filed Mar. 6, 1930. Serial No. 34,756. Term of patent 14 years.



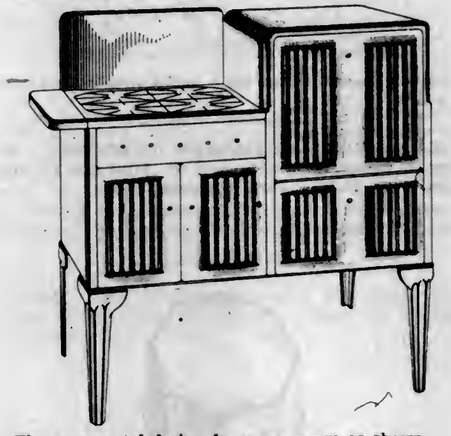
The ornamental design for a container for pastry or the like, as shown.

82,527. SHOE ORNAMENT. WALTER EDWARD SMITH, Warwick Downs, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Filed Aug. 5, 1930. Serial No. 36,564. Term of patent 3½ years.



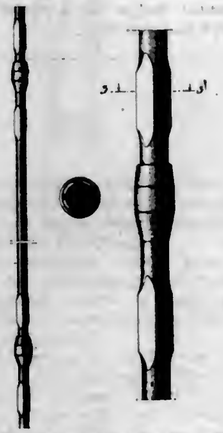
The ornamental design for a shoe ornament as shown.

82,528. GAS RANGE. ARTHUR STOCKSTROM, St. Louis, Mo., assignor to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed Aug. 25, 1930. Serial No. 36,762. Term of patent 14 years.



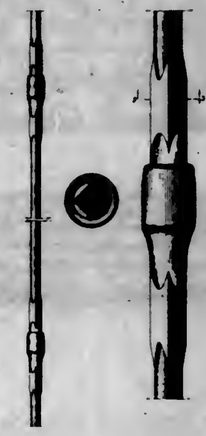
The ornamental design for a gas range as shown.

82,529. ROD OR LIKE ARTICLE. ALFRED MORRIS THOMSON, Newark, N. J., assignor to Dardelet Threadlock Corporation, New York, N. Y., a Corporation of Delaware. Filed July 24, 1930. Serial No. 36,455. Term of patent 14 years.



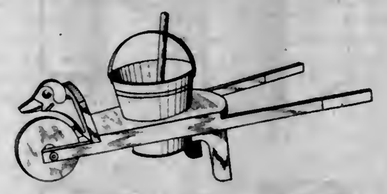
The ornamental design for a rod or like article, as shown.

82,530. ROD OR LIKE ARTICLE. ALFRED MORRIS THOMSON, Newark, N. J., assignor to Dardelet Threadlock Corporation, New York, N. Y., a Corporation of Delaware. Filed July 24, 1930. Serial No. 36,456. Term of patent 14 years.



The ornamental design for a rod or like article, as shown.

82,531. WHEEL-BEARING FIGURE TOY. CLARE A. WETZELL, Sterling, Ill. Filed Jan. 11, 1930. Serial No. 34,112. Term of patent 3½ years.



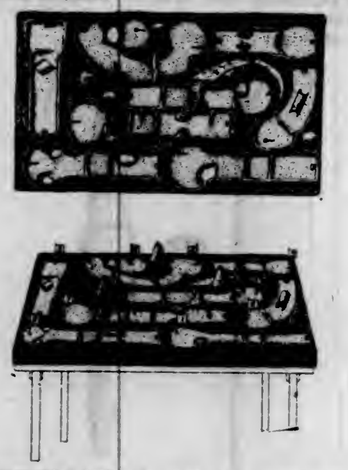
The ornamental design for a wheel bearing figure toy as shown.

82,532. PLATE OR SIMILAR ARTICLE. PAUL ZENKER, Paris, France, assignor to Haviland & Co. (Societe Anonyme), Limoges, France, a Corporation of France. Filed May 13, 1930. Serial No. 35,632. Term of patent 3½ years.



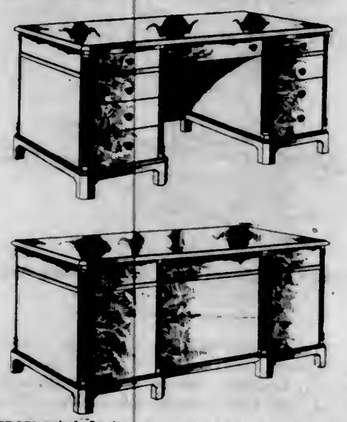
The ornamental design for a plate or similar article, as shown.

82,533. GAME TABLE. MARK HARRIS, New Rochelle, N. Y. Filed Sept. 3, 1930. Serial No. 36,855. Term of patent 14 years.



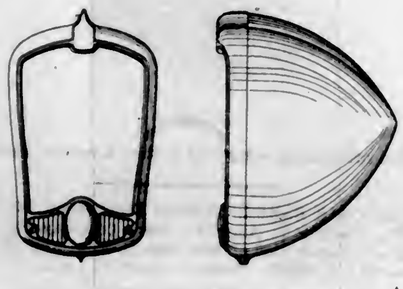
The ornamental design for a game table as shown.

82,534. DESK. JOSEPH R. MCCARGAR, Grand Rapids, Mich. Filed June 30, 1930. Serial No. 36,230. Term of patent 7 years.



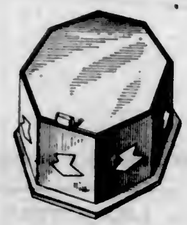
The ornamental design for a desk, as shown.

82,535. MOTOR VEHICLE HEAD LAMP. ROY W. JOHNSON, Columbus, Ohio, assignor to The Checker Cab Manufacturing Company, Kalamazoo, Mich., a Corporation of New Jersey. Filed Sept. 12, 1930. Serial No. 36,951. Term of patent 3½ years.



The ornamental design for a motor vehicle head lamp, as shown.

82,536. TOILET-ACCESSORIES CONTAINER. RUDOLPH EBERHARDT, Brooklyn, N. Y. Filed July 14, 1930. Serial No. 36,351. Term of patent 7 years.

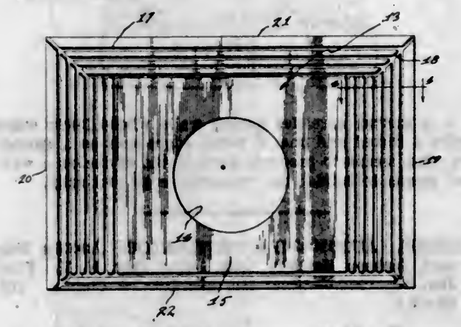


The ornamental design for a toilet accessories container, as shown and described.

PATENTS

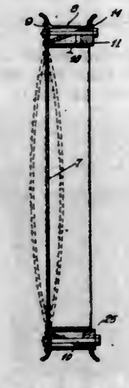
GRANTED NOVEMBER 11, 1930

1,780,896. PLATE FOR BURNERS. GEORGE C. ANDERSON, Detroit, Mich., assignor to Cope-Swift Company Incorporated, Detroit, Mich., a Corporation of Michigan. Filed Dec. 8, 1927. Serial No. 238,654. 7 Claims. (Cl. 158—2.)



1. As a new article of manufacture, a substantially rectangular plate having a circular opening therein for receiving an oil burner and having a series of scores therein arranged parallel to the edges thereof, said plate further having diagonal scores extending inwardly from the corners thereof and intersecting the scores disposed parallel to adjacent edges of the plate for the purpose set forth.

1,780,897. DISK WHEEL. DAVID H. BELLAMORE, New York, N. Y. Filed Mar. 24, 1927. Serial No. 177,935. 10 Claims. (Cl. 301—6.)

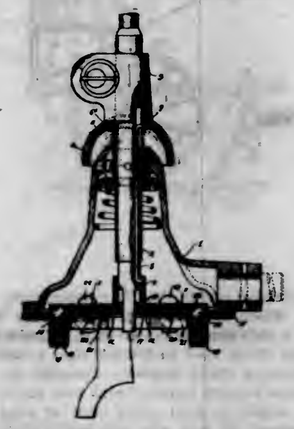


1. A disk wheel embodying a disk portion provided at its outer periphery with a laterally extending circumferentially corrugated flange constituting both the brake drum and the felly of the wheel.

7. A disk wheel embodying a brake drum, and a tire rim mounted on the brake drum, said drum being provided with transversely extending tapering box plaits to render the drum circumferentially adjustable without variation in its diameter.

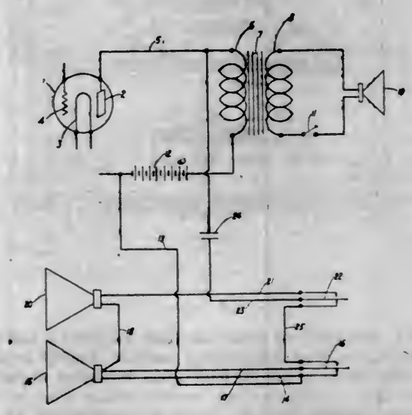
10. A disk wheel having a brake drum comprising a succession of relatively adjustable arcuate sections whereby said sections are adapted to individually circumferentially expand and contract under variations in temperature without appreciable change in their radius, and a tire rim, said drum forming a support for said rim.

1,780,898. GEAR-SHIFT MECHANISM. HOWARD E. BLOOD and ROBERT LAPSLEY, Detroit, Mich., assignors to Detroit Gear & Machine Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 27, 1925. Serial No. 71,511. 2 Claims. (Cl. 74—89.)



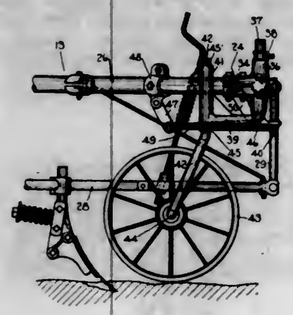
1. In a gear shifting mechanism, a casing, a lever pivoted in said casing, a support attached to the bottom of the casing, said support having a pair of parallel slots, a pair of shifter plates slidably supported on said support and comprising means extending into said parallel slots, a shifter fork supported by each plate, and means for operating said shifter plates.

1,780,899. SOUND-REPRODUCING APPARATUS. HAROLD C. BRADSHAW and MATTHEW J. DE FOREST, Chicago, Ill., assignors, by mesne assignments, to United Research Corporation, Long Island City, N. Y., a Corporation of Delaware. Filed Dec. 3, 1927. Serial No. 237,555. 16 Claims. (Cl. 179—171.)



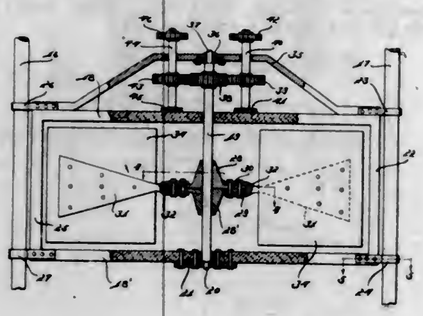
1. The combination of a thermionic amplifier for amplifying audio frequency currents, a loud speaker, a transformer coupling said loud speaker to said amplifier and a second loud speaker connected to said amplifier at a point between said amplifier and said transformer.

1,780,900. CULTIVATOR-WHEEL MOUNTING. THEOPHILUS BROWN, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Apr. 30, 1928. Serial No. 273,872. 23 Claims. (Cl. 97—47.)



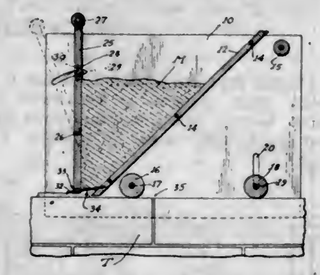
1. A cultivator comprising in combination, a frame, a supporting wheel therefor, cultivator rigs mounted on said frame, a rock shaft mounted on said frame and adapted to raise and lower said cultivator rigs, a sleeve mounted on said frame, a shaft rotatably mounted in said sleeve, a pair of arms formed integral with said shaft and extending at an angle to each other, one of said arms comprising a sleeve, an axle for said wheel mounted in said second named sleeve, and means connecting the other of said arms with said rock shaft whereby the movement of said rock shaft moves said wheel toward and from said frame simultaneously with the lowering and raising of said rigs.

1,780,901. WATER-POWER WHEEL. JAMES AMYAS BURROUGHS, St. Clair, Mich. Filed May 28, 1928. Serial No. 281,002. 1 Claim. (Cl. 170—173.)



In a device of the class described, a shaft; a hub comprising a pair of cooperating sections fixedly mounted on said shaft; a plurality of arms radiating outwardly from each of said sections, corresponding arms of each of said sections being in alignment; a plurality of substantially triangularly shaped supporting arms; a neck extending inwardly from each of said supporting arms and provided with a socket for the reception of a pair of said radiating arms; and a paddle carried by each of said wedge shaped arms.

1,780,902. MORTAR SPREADER. ROBERT L. AINSLIE, Palm Springs, Calif. Filed Feb. 9, 1929. Serial No. 338,665. 6 Claims. (Cl. 72—128.)



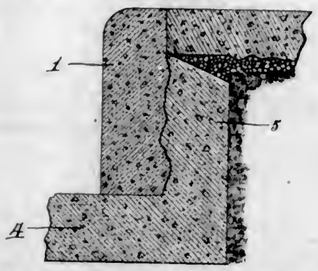
1. A mortar spreader having walls whose lower edges define a throat and one of which edges acts as a spreading edge, means to properly position the device on a wall, and means to adjust the spreading edge vertically.

1,780,903. AUTOMOBILE VENTILATOR. ADOLPH BERMAN, Jackson Heights, Long Island City, N. Y. Filed Jan. 30, 1930. Serial No. 424,710. 4 Claims. (Cl. 98—2.)



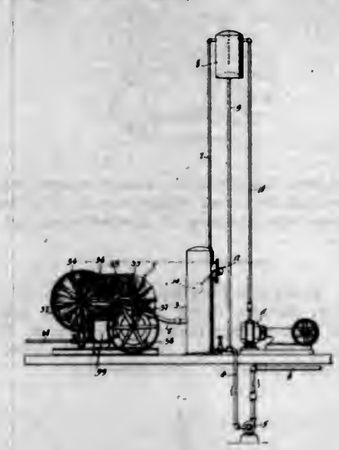
1. A ventilator for vehicles, comprising a frame having front and rear walls, the front wall being larger than the rear wall and forming a projecting flange all around said frame, the front wall being provided with a plurality of louvers facing inwardly, the rear wall being provided with apertures and with sliding doors within the ventilator frame to open and close said apertures, a screen partition intermediate the said walls, and an aperture in one of the sides of the frame.

1,780,904. CONCRETE CURBING. HYMEN A. BLANCHARD, Buffalo, N. Y. Filed Feb. 15, 1928. Serial No. 254,544. 1 Claim. (Cl. 94—31.)



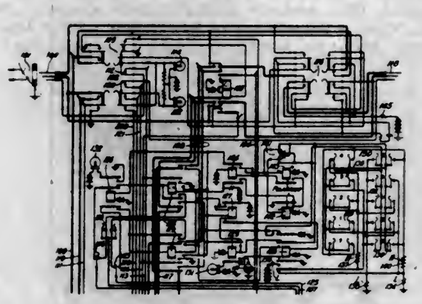
A precast curb section adapted to be united with a hard setting plastic backing of specified vertical extent comprising a body formed of concrete and having its rear face formed with an upper smooth surface and a lower rough surface, the latter being characterized by adjoining projections and depressions delimited thereby and being of the same vertical extent as the backing, said upper and lower surfaces providing a line of demarcation which marks the upper and lower limit of the rough surface whereby when the rough surface is placed in contact with the backing, the latter will extend at least up to said line of demarcation, the said backing being sloped downwardly away from its front upper edge in order to drain away any water that might seep past the smooth portion of the curb section.

1,780,905. FILTER APPARATUS. ROBERT STUART BUTLER, Los Angeles, Calif., assignor to Southwestern Engineering Corp., Los Angeles, Calif., a Corporation of California. Filed Dec. 12, 1928. Serial No. 325,468. 12 Claims. (Cl. 210—197.)



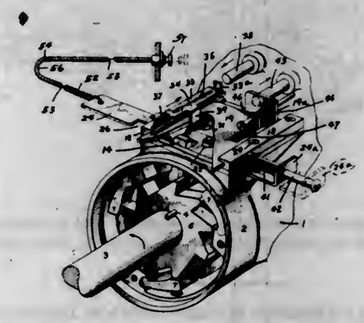
1. A filtering apparatus comprising a row of filter leaves with facing filter surfaces, means connecting the plates forming intermediate chambers for the material to be filtered, filtrate receiving means, means for moving the row of filter plates simultaneously with filtration and transversely to the plates and relative to said filtrate receiving means to translate the row of filter plates to and from the filtering zone, and means connecting the filtrate receiving means with said filter plates when the plates are in the filtering zone and disconnecting the filtrate receiving means with said filter plates when the filter plates pass from the filtering zone.

1,780,906. AUTOMATIC TOLL-SWITCHING TELEPHONE SYSTEM. WARREN W. CARPENTER, Queens Village, and RALPH E. HERSEY, Brooklyn, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed May 4, 1929. Serial No. 360,458. 17 Claims. (Cl. 179—27.)



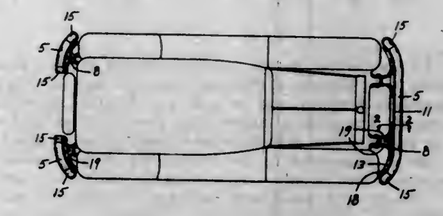
1. In a telephone exchange system, an operator's position having a plurality of cord circuits, called subscribers' lines, jack-ended trunk circuits and selector switches for extending a connection from an operator's position to said lines, a plurality of register senders common to said trunk circuits for controlling said selector switches, link circuits each comprising a trunk finder and a sender finder, means operative upon the connection of a cord circuit with a trunk circuit for causing an idle link circuit to associate an idle sender with said trunk circuit, a key set at said operator's position associable with any cord circuit of said position, and means controlled from said key set over the talking conductors only of said cord circuit for setting the registers of said sender.

1,780,907. REVERSE LOCK MECHANISM. CHARLES PAUL CIRAC, San Francisco, Calif. Filed Feb. 20, 1925. Serial No. 10,465. 5 Claims. (Cl. 188—80.)



1. In a device of the character described the combination of a baseplate, a ratchet wheel, stop means for locking the ratchet wheel against movement in one direction relatively to the baseplate, a control plate controlling said stop means, and means for causing frictional engagement between said ratchet wheel and said control plate, whereby to engage the stop means when the ratchet wheel is moved in one direction, and to disengage the stop means when the ratchet wheel is moved in the other direction, and manually actuable means for placing said control plate under urge to disengage said stop means.

1,780,908. PNEUMATIC BUMPER. HERBERT M. CLAUSEN, Spokane, Wash. Filed Oct. 14, 1929. Serial No. 399,460. 1 Claim. (Cl. 293—55.)

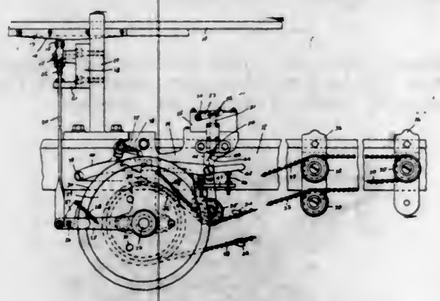


A pneumatic bumper comprising an outer resilient casing open at both ends, an inner-tube installed within said casing and having its ends projecting exteriorly thereof, a clincher frame member, a stiffener rib for said frame, metal caps for the ends of said inner-tube and casing secured to said stiffener rib, oppositely curved and twisted spring supports secured to the stiffener rib, and a valve for the inner-tube interposed between said spring supports.

1,780,909. AUTOMATIC COURSE COUNTER AND STOP. FRED CLEMENS, Indianapolis, Ind. Filed May 14, 1927. Serial No. 191,379. 6 Claims. (Cl. 66—167.)

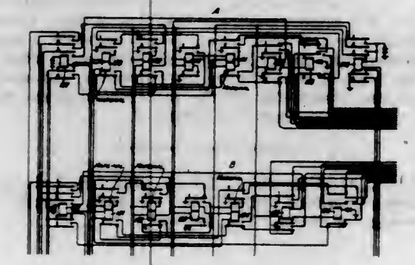
1. In a knitting machine or the like, including a switch operating member for controlling the operation of the machine and a machine operable element from which power may be derived, the combination of mechanism for transforming intermittent actuation derived from said machine operable element into progressive rotary motion, a lever

pivotally supporting a catch, a plurality of actuating members progressively presented by the progressive rotary motion to said lever for tilting the same, and a latch car-



ried by said switch operating member and engageable by the catch for actuating a switch after the lever has been tilted.

1,780,910. TESTING SYSTEM. BERT G. DUNHAM, Hawthorne, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed June 30, 1928. Serial No. 289,390. 19 Claims. (Cl. 179—175.)



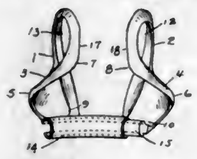
1. In a signaling system, a switch having brushes each movable in a plurality of different directions and terminals arranged in primary and secondary ordinates, signaling apparatus for said primary and secondary ordinates, means for directing said brushes to particular terminals, and means responsive to the positioning of said brushes to operate said signaling apparatus in accordance with the primary and secondary ordinate locations of said brushes.

1,780,911. SMOKELESS POWDER. FRANCIS I. DU PONT, Wilmington, Del., assignor to U. S. F. Powder Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 29, 1926. Serial No. 145,102. 6 Claims. (Cl. 52—5.)

1. A propellant powder including colloidal nitrocellulose in dominating proportion and a substance substantially non-volatile at a normal temperature for drying of powder, which is non-solvent of the nitrocellulose, which is liquid at atmospheric temperatures, which contains carbon and hydrogen and which is soluble in and will form a substantially stable mixture with water.

1,780,912. DILATOR. HENRY E. GAU, Cincinnati, Ohio. Filed Dec. 13, 1926. Serial No. 154,471. 3 Claims. (Cl. 128—3.)

1. A dilator comprising a pair of blade members having curved laterally flaring flanges disposed substantially transversely of the length and width of the blades, a pair of arcuate telescopically sliding members secured one each to the flanges at the top of the blades, the arc of the telescoping members lying in a downwardly and forward-



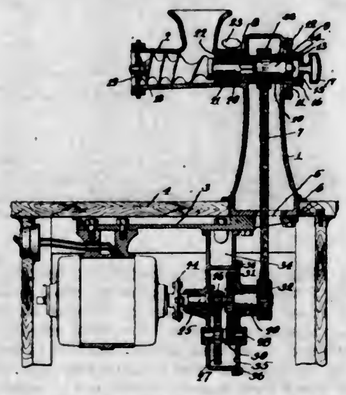
ly inclined plane relative to the flanges whereby to provide for self binding frictional engagement to hold the blades apart against the pressure of tissues separated by the blades.

1,780,913. CURTAIN FOR RAILROAD-CAR WINDOWS. ROBERT F. GOLDEN, South Orange, N. J., assignor to National Lock Washer Company, Newark, N. J., a Corporation of New Jersey. Filed Feb. 26, 1930. Serial No. 431,362. 4 Claims. (Cl. 156—31.)



2. A bottom bar structure for curtains consisting of a hollow bottom bar made of sheet metal having its edges at the top, between which edges the lower portion of the curtain is held, said edges having deformations, and a keeper strip applied inside said deformations for holding said edges from spreading.

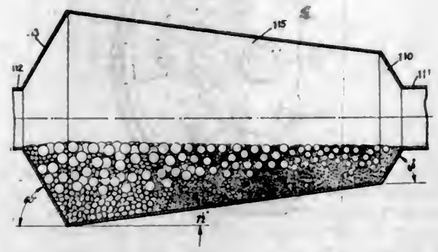
1,780,914. MEAT CHOPPER. ROY KARL GULLBERG, Dayton, Ohio, assignor to Dayton Scale Company, Dayton, Ohio, a Corporation of New Jersey. Filed June 3, 1925. Serial No. 34,571. 2 Claims. (Cl. 146—189.)



1. In a grinder wherein a shaft is provided co-axial with and driving a feed screw for the meat, a casing having

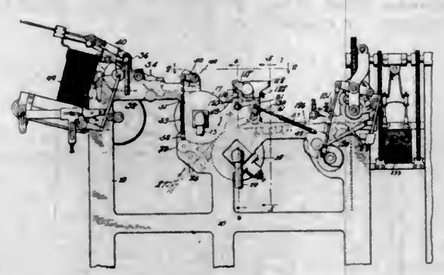
a reduced portion in which said shaft is journaled, a bearing element carried by one end of the shaft, a co-operating bearing element carried by the casing, friction-reducing elements positioned between the bearing elements, a gear keyed to the shaft for rotating the shaft, said casing having an enlarged portion surrounding the gear and said reduced portion of the casing for accommodating the gear, and said bearing elements being formed with vertical and horizontal walls to resist radial and end thrust of the shaft.

1,780,915. APPARATUS FOR DISINTEGRATING ORE AND OTHER MATERIAL. HARLOWE HARDINGE, York, Pa., assignor to Hardinge Company, Incorporated, York, Pa., a Corporation of New York. Filed Jan. 30, 1929. Serial No. 336,175. 3 Claims. (Cl. 83—9.)



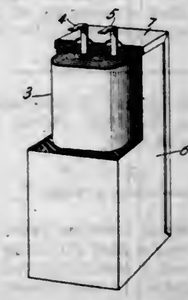
1. A rotatable mill for disintegrating ore and other material, comprising three conical portions joined together with the ends of the intermediate conical portion joined to the larger ends of the conical end portions, the conical end portion at the larger end of the intermediate conical portion having an inlet opening and the conical end portion at the smaller end of the intermediate conical portion having an outlet opening, and a plurality of crushing bodies freely movable in all directions within the mill.

1,780,916. TIPPING MACHINE. WILLIAM H. HARRISON, Jr., Chicago, Ill., assignor to W. F. Hall Printing Company, Chicago, Ill., a Corporation of Illinois. Filed June 4, 1928. Serial No. 282,859. 8 Claims. (Cl. 270—58.)



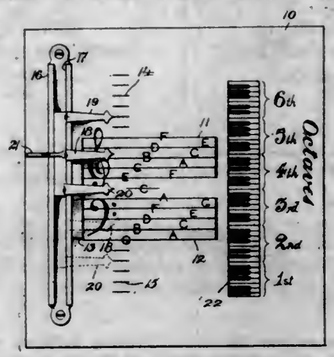
1. A machine of the class described comprising two co-operating feed and pressure drums, and two co-operating feeding mechanisms arranged to feed objects to said drums, said mechanisms being synchronized to cause said objects to pass between said drums simultaneously and be thereby superposed, both of said drums being equipped both with mechanical gripper fingers and suction means for engaging said objects, and means for successively causing the same to engage objects fed to said drums, the relation being such that said objects will be held to the drums by suction only as their advancing edges pass between said drums.

1,780,917. ELECTRIC CONDENSER. ELLERY T. HOCH, Bloomfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed May 29, 1926. Serial No. 112,422. 8 Claims. (Cl. 175—41.)



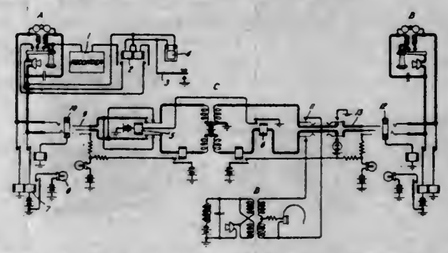
1. An electrical condenser comprising a container enclosing layers of metal foil and paper and an impregnating and filling mixture containing petrolatum and mineral beeswax.

1,780,918. MUSICAL-INSTRUCTION DEVICE. HERMAN HOLZMAN, Newark, N. J. Filed June 21, 1928. Serial No. 287,186. 4 Claims. (Cl. 84—471.)



1. A musical instruction chart comprising a representation of a staff and its leger lines, and connected pointer spaced apart the distance of an octave on the chart whereby a leger note can be identified by one pointer when the other pointer is placed on the corresponding note within the staff.

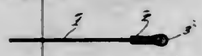
1,780,919. MEANS FOR RECORDING TELEPHONE CONVERSATIONS. NEWMAN H. HOLLAND, deceased, Upper Montclair, N. J., by Charlotte M. Holland, administratrix, Upper Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed May 26, 1928. Serial No. 280,826. 6 Claims. (Cl. 179—6.)



1. In a telephone system including substations and central office means for interconnecting the substations,

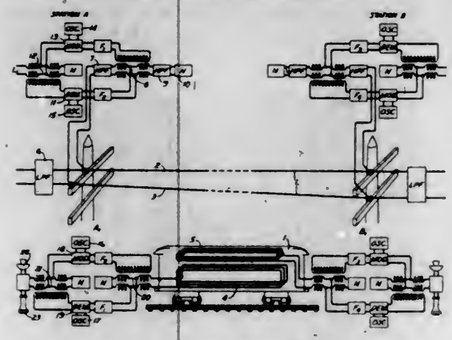
current reversing means at the central office, phonographic apparatus normally disconnected from the line at a substation prior to the reception of a call to record telephone conversations, and connecting means at a substation operated by a reversal of current through the system and controlled jointly from a plurality of substations for connecting the phonographic apparatus to the telephone line.

1,780,920. MATCH. HARRY H. HONIGBAUM, New York, N. Y. Filed Aug. 21, 1929. Serial No. 387,320. 2 Claims. (Cl. 44—46.)



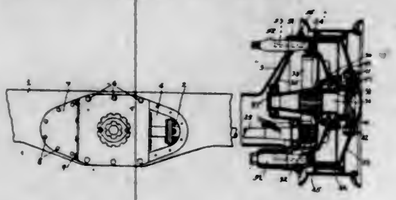
2. A match embodying a fibrous (wood or paper) combustible portion having a head extending in one direction from said portion, and a metallic portion extending from said combustible portion in the opposite direction from said head.

1,780,921. COMMUNICATION SYSTEM. JOSEPH W. HORTON, Cambridge, Mass., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 24, 1928. Serial No. 321,589. 11 Claims. (Cl. 179—82.)



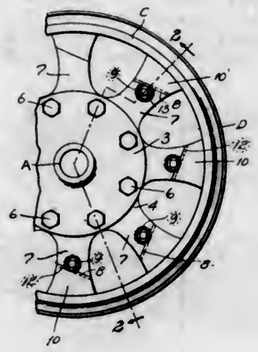
1. In a system for communicating between a moving body and a plurality of terminal stations between which it is moving, a transmission line connecting said stations adapted to transmit signal variations imposed thereon, transmission means on said moving body inductively coupled with said line in which are induced currents responsive to those transmitted over said line, and means for changing the transfer efficiency between said transmission means and said line from point to point along the route of travel of the moving body to provide a substantially constant transmission equivalent between said line and said transmission means, regardless of the position of said moving body with respect to said terminals.

1,780,922. AXLE CONSTRUCTION. FRANK D. HOWE, Cuyahoga Falls, Ohio. Filed Oct. 15, 1923. Serial No. 668,525. 11 Claims. (Cl. 74—7.)



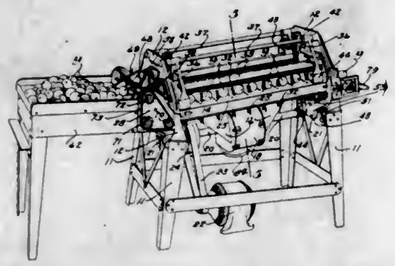
1. In an axle, the combination of a substantially tubular housing having enlarged end portions, a pair of plates secured to each of the ends of said housing in spaced relation to each other, bearings supported in each of said plates, a stub axle shaft rotatably mounted in said bearings at each end of the housing, a gear mounted on each of said stub axle shafts, and driving means extending to the respective ends of said tubular housing and engaging said respective gears.

1,780,923. WHEEL. CHRISTIAN J. HUG, Highland, Ill. Filed Oct. 14, 1927. Serial No. 226,061. 1 Claim. (Cl. 301—12.)



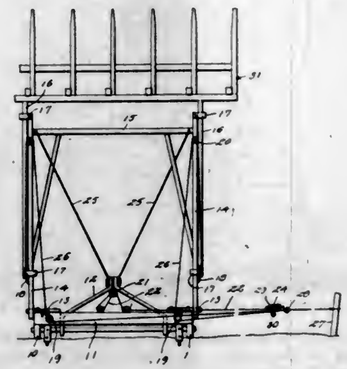
An improvement in wheels of the demountable rim type, comprising a spider carried on the hub and having a plurality of spokes, certain of the spokes having their outer ends formed wedge shaped circumferentially of the wheel, and alternate spokes having the wedge shaped surface extending in an opposite direction to the intervening wedge shaped ends, wedge shaped members carrying the tire rim and seated on the wedge shaped ends of the spokes, the face of the wedge shaped members facing the spokes formed with racks, and a pinion carried by each spoke engaging the racks of the several wedges to adjust the wedges on the spokes to align them with the periphery of the wheel; the alternate wedge shaped members being movable in opposite directions to similarly adjust the same thereby to prevent creeping of the rim.

1,780,924. FRUIT-CLEANING MACHINE. HARRY A. INGRAHAM, Zillah, Wash. Filed Mar. 2, 1928. Serial No. 258,480. 16 Claims. (Cl. 146—202.)



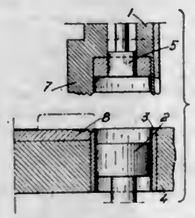
1. In a fruit cleaning machine, cleaning brushes spaced to afford a runway, means for producing relative movement of the brushes to clean the fruit, means for holding the fruit spaced while being progressively moved through this runway, and relatively stationary receiving brushes at the receiving end of said runway for delivering the fruit into the runway and between the vibratory brushes thereof.

1,780,925. STACKER. PETER B. JOHNSON, Fremont, Nebr. Filed Feb. 4, 1929. Serial No. 337,881. 2 Claims. (Cl. 214—141.)



1. A stacker including a support, a vertically swingable stacker frame on the support having an outer extensible section, a cable operatively connected with the extensible section and with a stationary means adjacent the support, a stop means on said cable, a cable for swinging the stacker frame, and draft means for drawing the last-named cable to elevate the stacker frame and to engage with said stop to draw the second-named cable to raise the extensible section.

1,780,926. MACHINE FOR MAKING CAPS. ANDERS JOSEF JONASON, Linkoping, Sweden. Filed Dec. 6, 1928, Serial No. 324,199, and in Sweden Nov. 11, 1927. 8 Claims. (Cl. 153—21.)

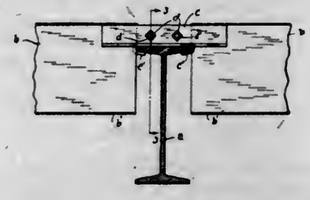


1. In a device of the character described, a packing inserting and crimping tool for tongued caps, comprising a reciprocating shell provided with the female section of the packing inserting tool and the male section of the crimper, a fixed bed having an opening registering with the female section of the packing inserting tool and the female section of the crimper disposed marginally of the opening, and a lower stamp forming the male section of the packing member reciprocally mounted in the opening.

1,780,927. LIQUID OF LOW FREEZING POINT FOR COOLING AND FOR SEALING VESSELS AND THE LIKE. OTTO JORDAN, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Mar. 9, 1927, Serial No. 174,091, and in Germany Mar. 5, 1926. 3 Claims. (Cl. 252—5.)

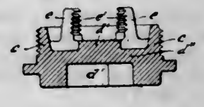
1. A liquid composition of low freezing point comprising water and a monoalkyl ether of a glycol.

1,780,928. BUILDING CONSTRUCTION. ISAAC T. KAHN, Cleveland, Ohio. Filed Mar. 26, 1926. Serial No. 97,579. 10 Claims. (Cl. 189—36.)



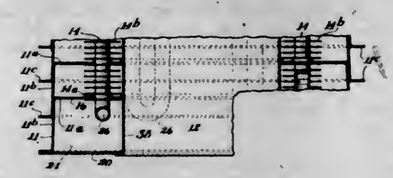
1. In a building construction, the combination with a supporting member comprising horisontally spaced vertically positioned metallic bars and means for limiting their spaced relation, of an unattached flanged supported member terminally inserted therebetween and carried by upper suspending flanges upon the vertical bars, substantially as set forth.

1,780,929. FAUCET-SUPPORTING PLUG. ISAAC T. KAHN, Cleveland, Ohio, assignor to The Consolidated Iron-Steel Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 2, 1929. Serial No. 337,081. 6 Claims. (Cl. 221—24.)



1. In a device of the class described, the combination with a cast metal closure member having an annular attaching member, of faucet-supporting means provided thereon, comprising a plurality of spaced members located within and radially spaced from the annular attaching member, said spaced members having an interrupted thread adapted to receive the threaded end of a faucet.

1,780,930. BRINE-TANK EVAPORATION UNIT. JOHN KARMAZIN, Detroit, Mich. Filed June 1, 1928. Serial No. 282,231. 12 Claims. (Cl. 62—95.)

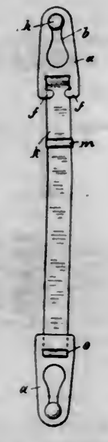


4. A telescoping tray element for brine tank evaporating units having perforations therein, additional perforations having projecting bosses thereon, and a central opening adapted to form a compartment in said element.

1,780,931. GARTER. WALTER KÖNIOSBERGER, Berlin, Germany. Filed Oct. 20, 1925, Serial No. 63,620, and in Germany Aug. 11, 1925. 4 Claims. (Cl. 241—6.)

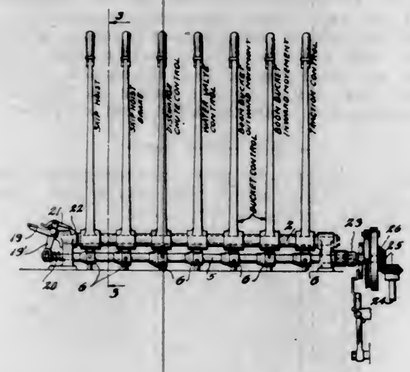
1. A garter comprising a strip of webbing, a substantially rigid slotted member engaging said strip for free sliding movement thereon, a transverse bar bordering the slot in said member and a pair of inwardly directed hooks surmounting the ends of said bar, a pliable member

associated with the slot in said rigid member, so as to brake the sliding movement of said member relative to



said strip, the free end of said strip being engaged by said hooks and the free edge of said pliable member being arranged to force said free end against said hooks.

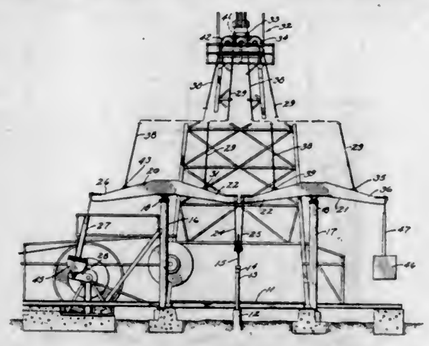
1,780,932. CONTROL MECHANISM FOR CONCRETE MIXERS. ERICH H. LICHTENBERG, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed Aug. 29, 1929. Serial No. 389,210. 16 Claims. (Cl. 83—73.)



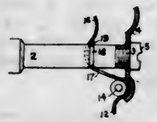
1. In concrete mixing apparatus, the combination with a mixing drum and charging and discharging means, of means for independently initiating operations of said charging and discharging means, actuating means cooperating with said operation initiating means and constituting a common actuator for selectively controlling the charging and discharging means in a timed relation to each other, and means for rendering either of said initiating means inoperative relative to the common actuator.

1,780,933. STRAIGHT-LINE PUMPING OPERATING MECHANISM. ARTHUR E. MARTOIS, Compton, and WALDO E. MARTOIS, Gardena, Calif. Filed Feb. 25, 1929. Serial No. 342,428. 9 Claims. (Cl. 74—14.)

1. A long stroke pumping mechanism designed to be secured to a sucker-rod string, said mechanism including: a primary walking-beam; a secondary walking-beam; primary means for connecting said primary walking-beam to said string; secondary means for connecting said secondary walking-beam to said string, said walking-beams cooperating to reciprocate said string; and mechanism for oscillating said walking-beams.

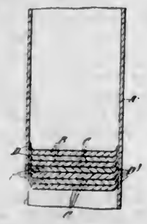


1,780,934. SAFETY RAZOR. JOHN MENZAK, Manville, N. J. Filed Feb. 16, 1929. Serial No. 340,362. 2 Claims. (Cl. 30—12.)



1. In a razor of the character described, the combination of a head frame having means for supporting a razor blade with provision for oscillation during stropping, a handle secured to the head frame, a pivoted guard hinged to the head frame and having portions which engage the cutting edge of the blade for holding it against oscillation, and an extension from the guard provided with an engaging means for detachably locking it to the handle whereby the guard is held in engagement with the blade during the shaving operation, and wherein further, the handle is provided with a notched portion and in which the engaging means of the guard is adapted to snap into the said notch when oscillated into engagement with the blade.

1,780,935. ALKALINE STORAGE BATTERY. JOHN FERREOL MONNOT, London, England. Filed July 31 1928, Serial No. 296,470, and in Great Britain Nov. 4, 1927. 3 Claims. (Cl. 136—28.)



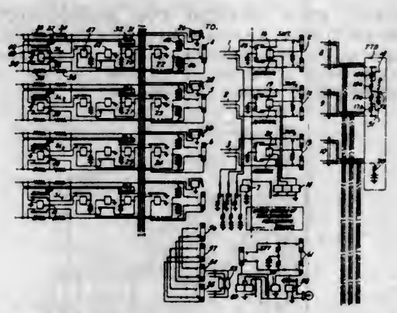
1. A metallic tube of substantially circular cross-section for use in the positive plates of alkaline storage batteries, said tube having a filling of alternate layers of nickel hydroxide and of pieces of perforated nickel foil having an area larger than the internal cross-sectional area of the tube.

1,780,936. CIGARETTE HOLDER. ALICE M. NUERNBERG, Port Townsend, Wash. Filed Dec. 17, 1928. Serial No. 326,527. 7 Claims. (Cl. 131—51.)



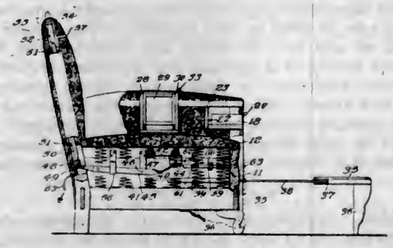
1. In a cigarette holder, in combination, a stem, a hook-shaped cigarette holding member secured to said stem, and means for ejecting cigarette stubs therefrom.

1,780,937. TESTING SYSTEM. HENRY W. O'NEILL, Elmhurst, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed May 25, 1929. Serial No. 365,913. 5 Claims. (Cl. 179—175.)



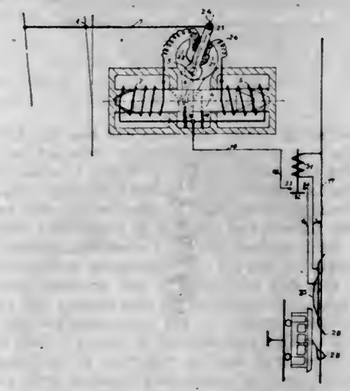
1. In a transmission measuring system, a plurality of lines to be tested, a busy signal for each line, a plurality of groups of trunks, each formed from a plurality of individual trunks, means for connecting any one of the lines with one end of any one of the trunks, a testing circuit including transmission measuring means, means for connecting said testing circuit with the other end of any one of said trunks, and means automatically responsive to such connection to actuate the busy signals associated with all of the lines connected to said trunks.

1,780,938. CHAIR. JOSEPH PASSIS, Chicago, Ill. Filed Feb. 27, 1929. Serial No. 342,974. 4 Claims. (Cl. 240—4.)



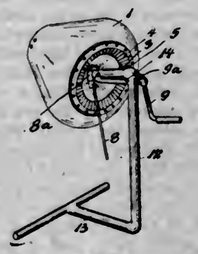
1. In an arm chair of the character described, comprising a frame structure formed to provide a base, a seat rest, side arms, and a back portion, an elongated compartment provided in the said back portion, a tubular member mounted for sliding movement in said compartment, an electricity conductor extending through said tubular member, a light bulb mounted at the upper portion of said tubular member, a rocker arm pivoted intermediate its ends and having the lower portion of said tubular member pivotally secured to one end thereof, the other end of said rocker arm being secured to the seat rest and adapted to be actuated thereby.

1,780,939. SWITCH-OPERATING MECHANISM FOR ELECTRIC RAILWAYS. ALEXANDER PATZ, Budapest, Hungary. Filed Dec. 15, 1927, Serial No. 240,245, and in Hungary July 17, 1926. 2 Claims. (Cl. 246—228.)



1. A switch-operating mechanism for electric railways in which the pointed rails are adjusted by means of a transmission lever and by an electromagnet of an exciter circuit when the driver of the car is running under a certain point of the railway feeder with the motor-starter switched in, comprising in combination with the pointed rails with the electromagnet and with the transmission lever, an adjusting armature on said electromagnet, an idle run inserted between said armature and said pointed rails for reversing the exciter circuit, a pivot axle, a pivotally mounted lever adapted to be operated by said electromagnet, a two-armed bow oscillatably mounted on said oscillatable lever the arms of said bow gripping with clearance over said lever and coupled with said lever toothlike for alternately earthing the ends of the electromagnet winding at the oscillation of said lever and an arm pivotally mounted on the said pivot axle and operated by said bow to operate the switch.

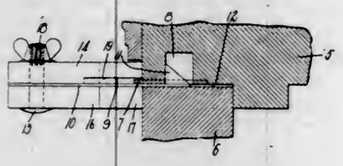
1,780,940. CONCRETE MIXER. VAINÖ PIISPANEN, Helsinki, Finland, assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed Jan. 30, 1930, Serial No. 424,638, and in Finland May 22, 1929. 6 Claims. (Cl. 83—73.)



1. A concrete mixing machine, comprising a drum open at one end, and closed at its other end, a support, an

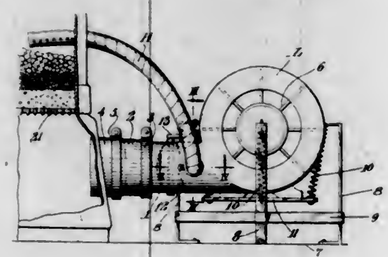
angular shaft rotatable upon the support and supported at one end of the support, means connecting the other end of the shaft with the mixing drum, and means for moving the shaft to turn the drum from mixing to discharging position, together with means for rotating the drum relatively to the shaft.

1,780,941. DOOR FASTENER. JOHN H. PINEO, Brookline, Mass. Filed July 15, 1929. Serial No. 378,218. 2 Claims. (Cl. 292—298.)



1. A fastening device for doors and the like having, in combination, a catch adapted to be inserted between a door casing and a door and project into a recess provided in said casing, a positioning member pivotally attached to the catch and provided with a peripheral portion eccentric to the axis thereof and adapted to engage the casing and hold the catch normal thereto a clamping member of the same general contour as the positioning member and also pivotally attached to the catch and provided with a peripheral portion eccentric to the axis thereof and reversely positioned with respect to the peripheral portion of the positioning member and adapted to engage a door and prevent the latter from moving relatively to the casing, and means to clamp the positioning member and clamping member to the catch.

1,780,942. FURNACE-CONTROLLING DEVICE. THORNTON W. PRICE, New Brunswick, N. J. Filed Nov. 24, 1928. Serial No. 321,626. 3 Claims. (Cl. 110—72.)



2. The combination, with a furnace having a grate, a combustion chamber above the grate and an ash pit below the grate, of a motor, a blower comprising a fan driven by said motor and a fan housing rigid with the motor having an air discharge pipe extending rigidly therefrom and supported thereby, means completing a closed air conduit from said air discharge pipe into the ash pit of the furnace, means forming a second air conduit between the blower and the combustion chamber of the furnace being connected in supported relation upon the blower and the furnace, both of said air conduits forming means being of a resilient character in order to decrease the inherent tendency of the motor and blower while in action to transmit vibration to the furnace and connected parts, and a carrying device by which the motor and the parts supported thereby are mounted resiliently.

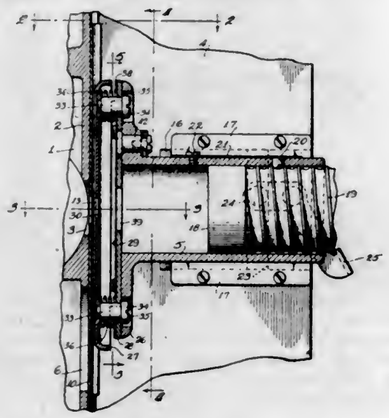
1,780,943. FIBER LIBERATING AND BLEACHING PROCESS. GEORGE A. RICHTER and MILTON O. SCHUR, Berlin, N. H., assignors to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Apr. 19, 1927. Serial No. 184,879. 6 Claims. (Cl. 92—11.)

1. A process which comprises treating unbleached pulp with chlorine water, and then bleaching such pulp in a bleach liquor maintained distinctly alkaline throughout such bleaching and containing sufficient bleach to whiten such pulp.

1,780,944. METHOD FOR REFINING ANTIMONY BY ELECTROLYSIS OF ACID ELECTROLYTES. HEINRICH ROSCHER, Hamburg, Germany, assignor to Norddeutsche Affinerie, Hamburg, Germany. Filed Oct. 5, 1927, Serial No. 224,279, and in Germany July 18, 1927. 5 Claims. (Cl. 204—57.)

5. A process of refining crude antimony which comprises preparing an electrolyte with antimony trifluoride containing about 100 grams free sulfuric acid per liter and about 20 grams free hydrofluoric acid per liter, introducing thereinto an antimony anode soluble in said electroylte and containing impurities such as lead insoluble therein, said electrolyte being of a character such as to prevent said anode from becoming passive, and electrolyzing the electrolyte to deposit antimony substantially without the deposition of the lead therewith.

1,780,945. FILM FRAMER FOR MOTION-PICTURE PROJECTORS. ABRAHAM SAPIER, Chicago, Ill., assignor to Universal Stamping & Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed June 13, 1929. Serial No. 370,522. 5 Claims. (Cl. 88—17.)



2. A picture projecting machine comprising a casing having a vertical film guideway provided with a light aperture, said casing having a side wall extending forwardly of said guideway and disposed in a plane substantially normal to the plane of said guideway, tracks on said side wall, a lens mounting slidably supported on said tracks in front of said aperture, a film framer supported on said lens mounting, said lens mounting being movable axially in a straight line movement toward and from said guideway, for shifting said framer toward and from said aperture while maintaining said framer substantially parallel to said guideway, and an eccentric supported on said mounting and engaging said framer for shifting said framer vertically relative to said aperture.

1,780,946. UMBRELLA. HEINRICH SCHRÖDER, Cassel, Germany. Filed Sept. 12, 1928, Serial No. 305,488, and in Germany Aug. 16, 1928. 1 Claim. (Cl. 135—46.)

In combination with an umbrella stick having a longitudinal groove near its holding end; a handle having a longitudinal bore receiving said stick end in it, and having also a longitudinal groove in said bore; a helical compressive spring located in said bore between the end face of the stick and the opposite face of said bore; a pin projecting forth laterally from the stick into said groove in said bore; a cap nut screwed upon the handle end which is located opposite to that enclosing said spring, said nut having a recess at its centre hole; a flat spring



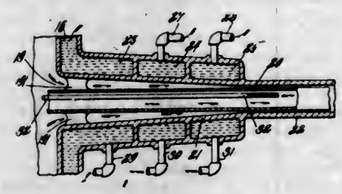
located in the longitudinal grove of the stick and being fixed therein; a pawl projecting outwardly from the other end of this spring and being adapted to enter into said cap nut recess when the handle is shifted towards it so as to compress the said helical spring and another projection extending also outwardly from the said flat spring and being adapted to be depressed together with this spring and the pawl by the usual staying rod slide substantially as set forth.

1,780,947. CRANK SHAFT. HANS SCHRÖN, Munich, Germany. Filed Dec. 14, 1926, Serial No. 154,838, and in Germany July 14, 1925. 2 Claims. (Cl. 74—38.)



2. A crank shaft having five cranks in which the consecutive numbering of the cranks is 1 4 3 2 5 in the crank star or mirror reflection and the distances of the cranks in axial direction of the shaft are equal.

1,780,948. METHOD OF AND APPARATUS FOR MAKING CONDUITS BY EXTRUSION. JOHN C. SHERMAN, Gorham, Me., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Aug. 5, 1926. Serial No. 127,260. 10 Claims. (Cl. 18—14.)



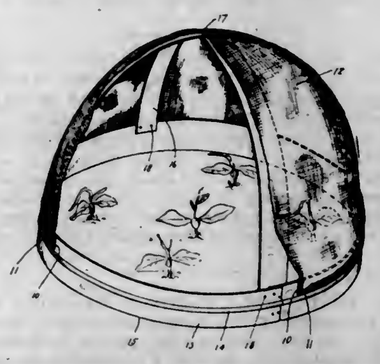
9. Apparatus for making conduit comprising a container having an orifice, a core extending through said orifice, means for extruding plastic material through said orifice into tubular form, a tubular shaper extending from around said orifice and surrounding said core, said shaper having a tapering internal diameter with its maximum diameter adjacent to said orifice, and means for maintaining and separately controlling a series of temperature zones along said shaper.

1,780,949. APPARATUS FOR EXCHANGING SAFETY-RAZOR BLADES. JOHN C. SHERMAN, Gorham, Me. Filed Feb. 3, 1928. Serial No. 251,561. 4 Claims. (Cl. 30—12.)



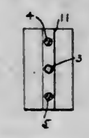
1. Apparatus for facilitating change of blades in a safety razor, comprising a supporting stand, a package of safety razor blades having spacing elements between successive blades, means on said stand for holding said blades in place, and means on said stand for releasably holding the cap of a safety razor in parallel relation to said blades.

1,780,950. PLANT PROTECTOR. JOHN L. STEVASON, Indianapolis, Ind. Filed Mar. 23, 1928. Serial No. 264,264. 1 Claim. (Cl. 47—31.)



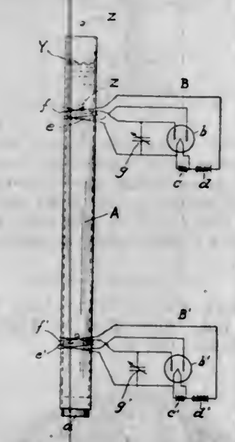
A plant protector or the like, including a metal strap having a corrugation intermediate its side edges and arranged in rim formation with its lower side edge adapted for earth penetration, a hood including a dome like fabric portion, and a hood support including a fabric supporting rim and arms supported thereby and projecting upwardly for sustaining said hood in dome formation, said second mentioned rim having a similar outline and by which the mouth of the hood is secured and by which the second mentioned rim is detachably but rigidly and wedgingly supported by said first mentioned rim above the corrugation thereof when in plant enveloping and earth penetrating position to form a central clear dome like chamber within and beneath the hood.

1,780,951. SAFETY-RAZOR ATTACHMENT. JOHN G. SUAREZ, New York, N. Y. Filed Sept. 13, 1928. Serial No. 305,781. 1 Claim. (Cl. 30—12.)



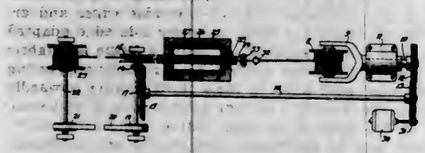
The combination in a safety razor of the class described, having a handle and guard and guide pins, of an adaptor for narrow razor blades comprised of a rectangular plate with three holes engageable with said guide pins and having edges that are adapted to engage and co-act with the rear edges of single edged blades, said blades positioned by the said adapter and rigidly held by the cooperative action of said handle and guard.

1,780,952. VISCOSIMETER. ERNEST M. SYMMES, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 27, 1927. Serial No. 222,373. 4 Claims. (Cl. 265—11.)



1. Apparatus for determining the viscosity of a fluid comprising a viscosimeter tube open for the reception of a fluid, a radio circuit including an oscillating radio tube having grid and plate filament circuits, the said grid and plate filament circuits extending about said viscosimeter tube, means for detecting variation in the rate of oscillation of said radio tube, and means for limiting the field of said grid and plate filament circuits adjacent to said tube.

1,780,953. CONDUCTOR. WILLIAM B. TEN EYCK, deceased, by Christine Z. Ten Eyck, administratrix, Montclair, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed Mar. 25, 1925. Serial No. 18,333. 11 Claims. (Cl. 178—45.)



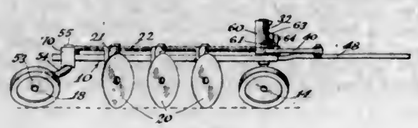
1. The method of constructing a continuously loaded conductor which comprises wrapping a layer of magnetic loading material about a conducting core, heat treating the loaded conductor to develop high permeability, and twisting the loaded conductor while it is undergoing said heat treatment.

1,780,954. BELT. STIRLING TOMKINS, South Nyack, N. Y. Filed June 30, 1928. Serial No. 289,361. 1 Claim. (Cl. 210—197.)



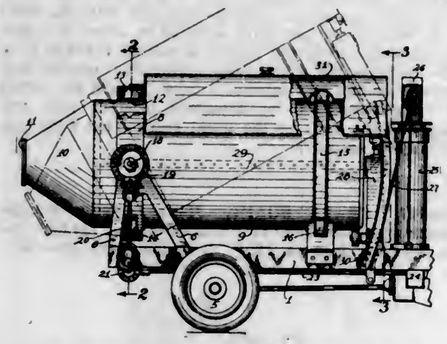
A belt for conveying and draining material comprising an elongated flexible sheet metal perforated load-carrying portion extending integrally a substantial distance in the direction of movement of the belt, and additional strips of material of relatively greater flexibility extending along and secured to each edge thereof and adapted to be flexed to variable degrees from the plane of said load-carrying portion for forming therewith a conveying trough.

1,780,955. DISK PLOW. STEVEN TOTH, Perris, Calif. Filed Sept. 17, 1929. Serial No. 393,219. 4 Claims. (Cl. 97—53.)



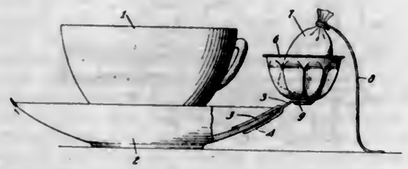
1. An implement of the character stated comprising a frame, wheels supporting said frame, cultivating tools carried by said frame, and cam means for raising said cultivating tools, said means automatically operated by turning movement of said wheels.

1,780,956. CONCRETE-MIXING APPARATUS. HARRY A. TOTTEN, Burlingame, Calif., assignor to Transit Mixers, Inc., San Francisco, Calif., a Corporation of Nevada. Filed Mar. 25, 1929. Serial No. 349,553. 9 Claims. (Cl. 83—73.)



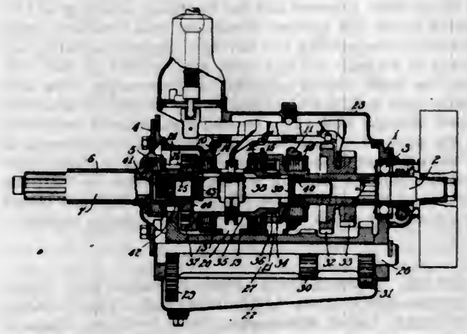
1. The combination with the main frame of a road vehicle, a mixer element disposed longitudinally of said vehicle frame, a cradle for revolubly supporting the mixer near the rear end of said frame, means for fulcruming said cradle on a horizontal axis at a point above the lower periphery of the mixer element, means for supporting the forward end of said mixer element when in normal positions, means independent of said last mentioned means for supporting the forward end of the mixer element in tilted positions, means for rotating the mixer element, and means for tilting the mixer element.

1,780,957. TEA-BALL HOLDER. FREDERIKA VEDER, New York, N. Y. Filed Jan. 21, 1929. Serial No. 334,098. 2 Claims. (Cl. 65—15.)



1. A tea ball holder comprising a water-tight cup-shaped container, and a saucer gripping support for the container, comprising a central resilient prong adapted to engage one face of the saucer and a pair of side prongs adapted to engage the opposite face of the saucer, the central prong being substantially longer than the lateral prongs to enable the protruding end portion of the central prong to be engaged with the saucer rim and stressed to provide a sufficient opening between the central and side prongs for easy reception of the margin of the saucer, the prong opening being situated at the inner extremity of the support and the container being mounted upon the outer extremity of the support.

1,780,958. OILING MEANS FOR TRANSMISSION GEARING. SAMUEL O. WHITE, Muncie, Ind. Filed Dec. 3, 1928. Serial No. 323,434. 6 Claims. (Cl. 184—13.)



1. In an automobile transmission the combination with an enclosing casing of driving and driven shafts projecting through the end walls of said casing, a transmission gearing for drivingly connecting said shafts and operating in a plane higher than the normal oil level in said casing, a supplemental shaft operating in said casing below said gears and in the oil adapted to be maintained in said casing and a supplemental oil reservoir for supplying oil to said gears and having bottom openings therein in such close proximity to said supplemental shaft that the walls of said opening will scoop the oil picked up by said shaft therefrom forcing it through said openings into said supplemental reservoir.

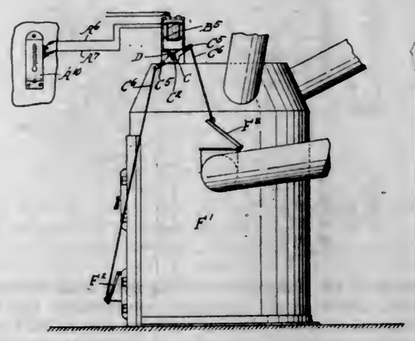
1,780,959. SURGICAL SPLINT. THOMAS S. WILKES, Corvallis, Oreg. Filed Dec. 1, 1927. Serial No. 236,890. 2 Claims. (Cl. 128—87.)



1. A surgical splint including tubular side bars presenting concave faces at their inner sides and provided at their outer sides with spaced longitudinal flanges of hook formation extending laterally of the side bars in opposite directions, and a plurality of semi-circular bands having hook-shaped terminals engaging the hook-shaped flanges of the side bars, the hook shaped flanges of the of the side bars being provided with inwardly extending lips forming abutments for the adjacent ends of the semi-circular bands, and clips spanning the space between the flanges of the other side bar and securing the semi-circular bands in the flanges thereof.

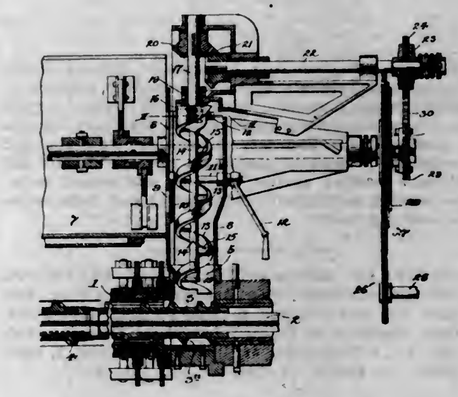
1,780,960. DAMPER CONTROL FOR HOUSE-HEATING SYSTEMS. JAMES R. WILLIAMS, Quincy, Ill., assignor to H. M. Sheer Company, Quincy, Ill., a Corporation of Illinois. Filed June 8, 1928. Serial No. 283,790. 18 Claims. (Cl. 236—16.)

1. In combination a thermostat responsive to temperature variation, a motor, the operation of which is controlled by the thermostat, a furnace, dampers controlling the furnace operation, an actuating member operated by the motor for controlling the dampers in response to the thermostat, means for temporarily disconnecting the motor and the damper actuating member to permit damper



adjustment independent of the thermostat control and automatic means for connecting the motor and the actuating means, means independent of the thermostat for operating the motor during the time that the motor and the actuating means are disconnected.

1,780,961. PRESS. RAYMOND T. ANDERSON, Cleveland, Ohio, assignor to The V. D. Anderson Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 28, 1928. Serial No. 281,214. 5 Claims. (Cl. 100—48.)

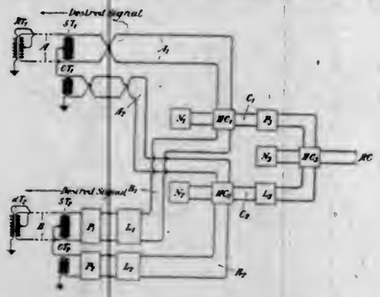


1. In combination with a press for expressing liquids from materials, a hopper opening into the intake end of the same; a chute extending upwardly from the hopper; and a feed element mounted in the chute, said element comprising a rigid open spiral which stands in spaced relation to the inner face of the hopper and chute.

1,780,962. RADIO SIGNALING SYSTEM. AUSTIN BAILEY, Freehold, N. J., and SAMUEL WINTHROP DEAN, Houlton, Me., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Apr. 13, 1927. Serial No. 183,532. 8 Claims. (Cl. 250—11.)

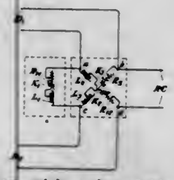
1. In a signaling system, the combination with a plurality of antennæ, constituting an array, of a common

receiving circuit, a transformer arrangement comprising a plurality of windings, a plurality of transmission paths, one transmission path extending from each antenna to a corresponding winding of the transformer arrangement, and a balancing net work connected to certain of the



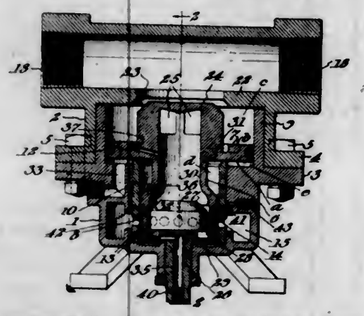
windings of the transformer arrangement, said balancing network exhibiting an impedance substantially equal to the impedance of the common receiving circuit, said common receiving circuit being also connected to certain of the windings of the transformer arrangement.

1,780,963. RADIO SIGNALING SYSTEM. AUSTIN BAILEY, Maplewood, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 7, 1927. Serial No. 238,377. 2 Claims. (Cl. 250—11.)



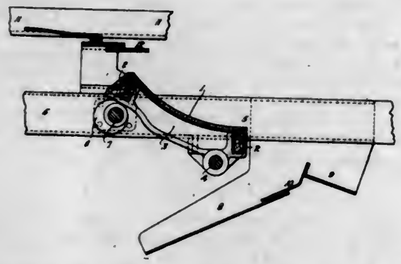
1. The combination with a broadside antenna system of a combining circuit having a resistance network to combine radio frequency currents representing signals and interference superposed thereon, a resistance network to combine radio frequency interference currents, and a resistance network to oppose the currents of said first resistance network against those of said second resistance network to eliminate the effect of said interference in a receiving circuit.

1,780,964. AUTOMATIC DRIFTING VALVE FOR STEAM LOCOMOTIVES. ARTHUR C. BECKWITH, Chicago, Ill., and FORDYCE B. FARNSWORTH, Wadsworth, Ohio, assignors to Chicago Lubricator Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 8, 1925. Serial No. 49,010. 6 Claims. (Cl. 121—137.)



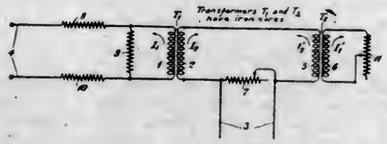
3. In an automatic drifting valve for steam locomotives, a valve casing provided with means defining a plurality of chambers therein, means for connecting said casing through one of said chambers with the valve chests of the locomotive engine cylinders, means for connecting said casing through a second of said chambers with a source of saturated steam, means for connecting said casing through a third of said chambers with the exhaust cavities of said engine cylinders, a tubular piston valve mounted in said casing and having a piston head forming a wall for each of said chambers and an extension for controlling communication between the source of saturated steam and said steam chests, said piston head subject to the influence of steam chest pressure and the combined pressures of saturated steam and exhaust steam and said extension being interiorly counterbored and having a circumferential lip adjacent to its end, and a headed plug carried by said casing, the head thereof adapted for cooperation with said counterbore and lip for controlling the passage of saturated steam through said valve to said steam chests relatively to the position of said valve in said casing as determined by the influence upon the piston head thereof of steam chest pressure and the pressure of saturated steam, to limit the amount of saturated steam admitted to said steam chests to the amount which may be used by said engine cylinders.

1,780,965. APPARATUS FOR SEPARATING COAL FROM DIRT AND LIKE FOREIGN SUBSTANCES. WILLIAM HENRY BERRISFORD, Stoke-on-Trent, England, assignor to Lockwood's Clean Coal Process Limited, London, England. Filed Jan. 3, 1930, Serial No. 418,329, and in Great Britain Nov. 17, 1928. 2 Claims. (Cl. 209—118.)



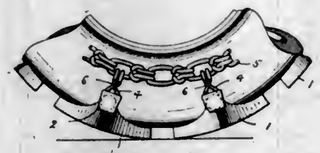
1. Separating apparatus of the class described comprising a plate onto the upper surface of which the materials are adapted to fall, means pivoting said plate adjacent its discharge end for movement on a horizontal axis, cam means cooperating with the plate rearwardly of said axis operable to adjust the position of the plate, said surface being substantially arcuate in the line of travel of the materials from the zone of reception thereof to the said discharge end, and said surface at the discharge end being arranged substantially horizontal.

1,780,966. ELECTRICAL TRANSMISSION SYSTEM. PAUL W. BLYE, Rutherford, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Mar. 1, 1926. Serial No. 91,628. 10 Claims. (Cl. 178—44.)



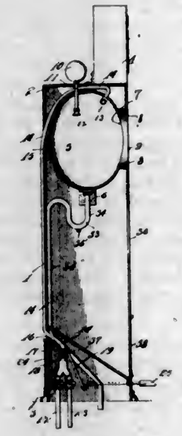
1. The method of eliminating the harmonics of a fundamental frequency generated in a transformer connected to a source of fundamental frequency with apparatus including a second transformer, which consists in generating the same harmonics in the second transformer, and balancing out these harmonics without affecting the fundamental frequency.

1,780,967. NONSKID DEVICE. WILLIAM R. BREWER, Duluth, Minn. Filed Aug. 19, 1929. Serial No. 387,068. 1 Claim. (Cl. 152—14.)



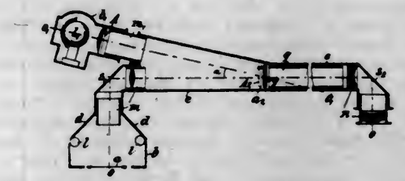
In a traction increasing device having diamond shaped traction treads and side chains, means for connecting said treads to said side chains comprising holding trunnions upon opposite vertices of said treads, said trunnions characterized by having grooves formed thereabouts, and side chain connecting links within said grooves having their terminal ends overlapped and hooked into one side of a side chain link.

1,780,968. LAVATORY. LAWRENCE W. BROPHY, Muskogee, Okla. Filed Sept. 29, 1928. Serial No. 309,333. 1 Claim. (Cl. 4—166.)



A lavatory comprising a tubular standard having a hand hole in its front side at a height appropriate for the insertion of the hands therein, a globular bowl supported within said standard having a hand hole therein between its top and bottom alined with the hand hole in the standard and provided with a flange edging said hole seating on and supported by the edge of the standard enclosing the hand hole, a spray nozzle supported within the upper front portion of the bowl above the hand hole therein, said nozzle being supported to direct a spray diagonally downward toward the rear face of the bowl and away from said hand opening, a water supply pipe extending from said nozzle having a normally closed valve therein, a treadle mounted on said standard operatively connected with said valve to open the same to supply water to the spray nozzle, and a drain pipe extending downwardly from the bottom of the bowl.

1,780,969. PROCESS AND APPARATUS FOR PRODUCING ARTISTIC DESIGNS. RUDOLF BRUNNER, Ruschlikon, near Zurich, Switzerland. Filed Feb. 26, 1926, Serial No. 90,923, and in Switzerland Mar. 5, 1925. 11 Claims. (Cl. 88—24.)



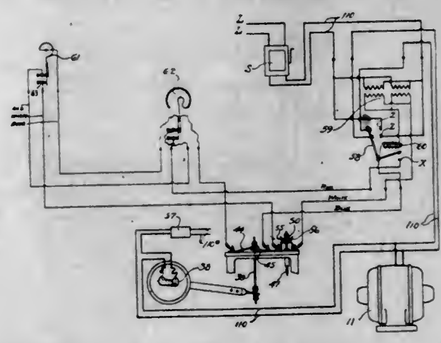
1. Process for episcopally and diascopically projecting kaleidoscopic images of one or more subjects, consisting in producing a real image of a distant opaque body closely before a mirror system, and in projecting the kaleidoscopic picture produced therein to a screen.

1,780,970. HULL FOR WATER CRAFT. ARCHIBALD NEIL CAMPBELL, London, England. Filed Jan. 11, 1930, Serial No. 420,200, and in Great Britain Oct. 24, 1928. 2 Claims. (Cl. 114—56.)



1. A surface water craft comprising a hull having a hollow keel wherein the deck of the hull forms the roof of the cabin in which internal head room is provided by the hollow keel which is left open between transverse bulkheads so as to form a central fore and aft corridor, on opposite sides of which corridor sleeping berths, lockers and the like are arranged in the hull proper, said bulkheads being provided with doors to give access to the cabin.

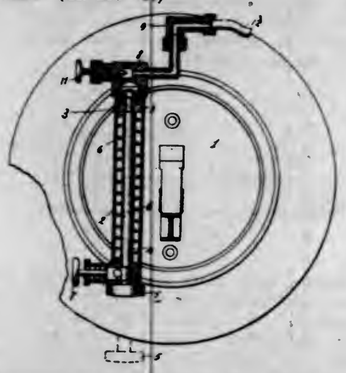
1,780,971. SAFETY-CONTROL MECHANISM FOR FUEL-BURNING DEVICES. CARL B. CHANDLER, Havana, Ill., assignor to Havana Metal Wheel Co., Havana, Ill., a Corporation of Illinois. Filed July 31, 1925. Serial No. 47,188. 3 Claims. (Cl. 158—28.)



1. In a fuel burning device, comprising an electrically operated means for projecting an atomized fuel mixture into a zone of ignition, safety control mechanism for

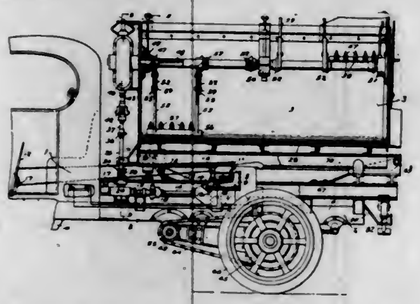
delaying the energization of the burner after cessation of operation for a substantial interval of time, including a main electrical circuit containing therein the said electrically operated means, a relay for opening and closing said main circuit, a secondary circuit for actuating said relay, a switch member therein normally closed to permit commencement of operation of the burner, a third circuit having a connection with the relay and being closed thereby simultaneously with the main circuit, whereby said switch member may be opened thereafter without stopping the burner, a float mechanism controlled by the accumulation of fuel induced by burner activity, and a connection between the float mechanism and switch member capable upon movement of the float caused by the fuel accumulation induced by burner activity of opening said switch and thereafter holding same open until the float has moved to its subsided position upon the cessation of burner activity.

1,780,972. FLUID-OPERATED APPARATUS FOR LIFTING AUTOMOBILE WHEELS. FERDINANDO BRUSCH DI NEUBERG, Treviso, Italy. Filed Feb. 13, 1929, Serial No. 339,726, and in Italy July 27, 1928. 2 Claims. (Cl. 138—9.)



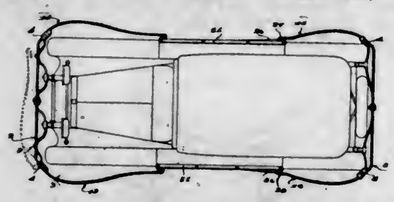
1. Automobile wheel lifting apparatus of the type operated by liquid or gas under pressure, including in combination, a chassis, brake shoe carrying discs on the chassis near the wheels, and lifting cylinders rigidly fixed on the brake shoe carrying discs, substantially as and for the purposes set forth.

1,780,973. TRUCK FOR TRANSPORTING CEMENTITIOUS MATERIALS. OTA T. GRAHAM and OAKLEY J. GRAHAM, Richmond, Va. Filed Feb. 24, 1928, Serial No. 256,710. Renewed July 29, 1930. 19 Claims. (Cl. 83—73.)



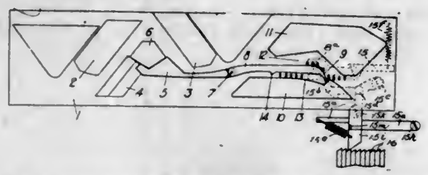
1. In combination, in a vehicle for conveying cementitious material and including a chassis and a propelling power unit, a body carried by said chassis and including a movable mixing element, a separate mixer power unit carried by said chassis independently of the body, and power transmission means operatively connecting said mixer power unit with said mixer element to drive the latter.

1,780,974. SIDE BUMPER FOR AUTOMOBILES. VERNE HOSTUTLER, Hollis, Okla. Filed Oct. 26, 1929. Serial No. 402,669. 8 Claims. (Cl. 293—55.)



1. In a motor vehicle, transverse bumpers extending across the front and rear of the vehicle, side bumpers extending along the entire sides of said vehicle and having intermediate and end portions, means for fixedly supporting said intermediate portions, a universal joint connecting said end portions to the ends of said transverse bumpers, and means for detachably securing said end portions in fixed position.

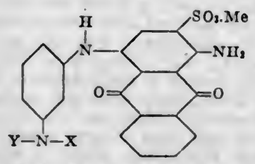
1,780,975. STRAIGHT-FRAME KNITTING MACHINE. FRITZ ISRAELSON, Stockholm, Sweden. Filed Nov. 14, 1927, Serial No. 233,117, and in Sweden Jan. 25, 1927. 3 Claims. (Cl. 66—75.)



1. In a straight frame knitting machine the combination with the beds and their needles, of carriages reciprocating on said beds, cams on said carriages to form a knitting position for the needles, a set of other cams on said carriages in front of said knitting position, a shiftable lever between the cams of said set to form two alternate passages to guide the needles into the knitting cams or outside thereof, means to normally cause said lever to keep one passage closed, and means to cause each needle introduced in said normally closed passage to automatically shift the lever to cause it to momentarily open said normally closed passage.

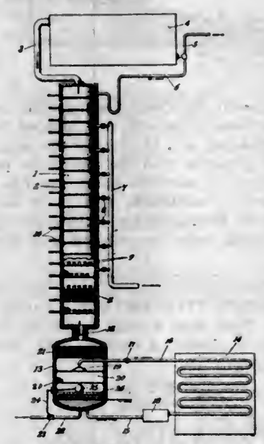
1,780,976. ACID WOOL DYESTUFFS OF THE ANTHRAQUINONE SERIES. GEORG KRÄNZLEIN and FRITZ ROEMER, Frankfort-on-the-Main-Hochst, and ERICH KRONHOLZ, Bad Soden-on-the-Taunus, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Dec. 19, 1928, Serial No. 327,182, and in Germany Dec. 23, 1927. 5 Claims. (Cl. 260—60.)

1. As new products, the dyestuffs of the following constitution:



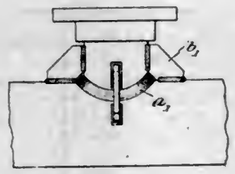
wherein X stands for an alkyl or aralkyl group, Y for an aliphatic acyl-residue and Me for a metal or for hydrogen, said dyestuffs being, when dry, a blue powder and dissolving in water to a blue solution.

1,780,977. PROCESS OF AND APPARATUS FOR STEAM DISTILLATION. EUGENE H. LESLIE and EDWIN M. BAKER, Ann Arbor, Mich. Filed May 11, 1923. Serial No. 638,175. 3 Claims. (Cl. 196—139.)



1. A method of fractionating a petroleum oil comprising introducing it into a section of a fractionator, bringing ascending vapor into intimate contact with descending liquid, introducing condensed vapor at the top of the fractionator, collecting liquid in the sections, independently withdrawing liquid products from one or more sections, distributing the liquid residue from the fractionator over a confined packing zone to volatilize a portion of said liquid residue, allowing the unvolatilized portion to pass through another confined packing zone, injecting steam into the liquid flowing from the packing zones, and introducing volatilized vapors formed thereby into the bottom of the fractionator.

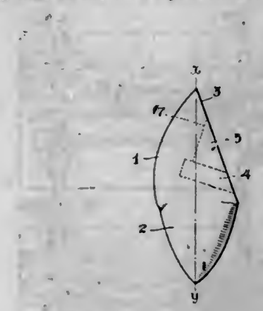
1,780,978. PROCESS FOR THE SECURING OF WELDS ON BENDED BODIES. ARTUR LÜTZOW, Cologne-Mulheim, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed May 26, 1927, Serial No. 194,491, and in Germany May 27, 1926. 4 Claims. (Cl. 113—112.)



1. The process of reinforcing a welded annular joint between two bodies which comprises arranging reinforcing strips in the form of thin plates across and edgewise to the joint, said reinforcing strips being out of contact with the weld between said bodies and welding edges of the strips to the said bodies at opposite sides of said angular joint.

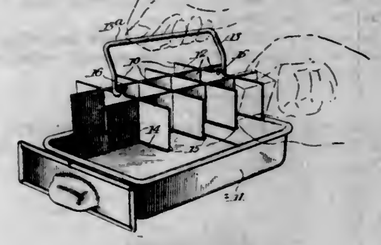
1,780,979. ARTIFICIAL PORCELAIN ROOT TOOTH. JAMES H. MOYER, Columbus, Ohio, assignor to The Columbus Dental Manufacturing Company, Columbus, Ohio, a Corporation. Filed July 12, 1923. Serial No. 651,146. 3 Claims. (Cl. 32—9.)

1. An artificial tooth having a root and a crown portion, and a flat plane extending the full width of the tooth in one dimension, and from the incisal end to the lingual surface of the root portion near the juncture of the crown and root portions in the other dimension, a post hole extending from the flat plane to a point within the labial half of the crown portion with its axis disposed



labially and incisally at an angle to the flat plane, and a slot triangular in longitudinal section in the crown portion communicating with and opening onto said flat plane throughout the length of the hypotenuse of the triangle, said slot also communicating with and opening into said post hole throughout the length of one leg of the triangle.

1,780,980. ICE GRID. EDWIN P. S. NEWMAN, Washington, D. C. Filed Feb. 4, 1929. Serial No. 337,424. 11 Claims. (Cl. 62—111.)

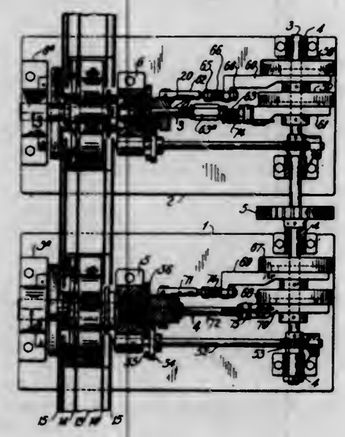


11. In combination, a grid for ice cube trays having a plurality of ice forming compartments, and a pivoted handle adjacent the top of the grid for removing the grid from the tray.

1,780,981. DYE PREPARATION. MARY B. PARRISH, Philadelphia, Pa. Filed Dec. 19, 1928. Serial No. 327,184. 1 Claim. (Cl. 8—6.)

A process of amplifying aniline dye colors comprising predigesting an aniline dye in the presence of pancreatin, ox gall, sodium chloride, citric acid, acetic acid and acetone; thereafter boiling the resulting mass with a mixture of soap and tinctures of vegetable fixatives consisting of camomile flowers, hyssop, ground cedar wood, and myrrh and permitting the mass to cool to blood heat; then redigesting the mass by adding pancreatin, gelatin, acetone, sodium chloride, ox gall and acetic acid at blood heat and permitting the resulting product to ferment in a warm room for approximately two weeks; and thereafter mixing the resulting product with dextrin and baking the mass at bread baking temperature until the product is of a crisp consistency.

1,780,982. CELL-FINISHING MACHINE. ALFRED SCHMIDT, Weehawken, N. J. Filed Mar. 17, 1928. Serial No. 262,479. 11 Claims. (Cl. 29—84.)

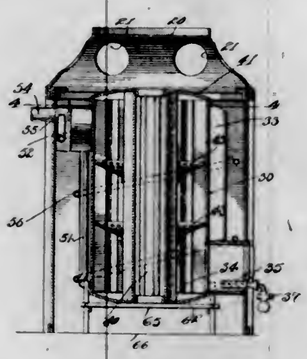


1. In a machine of the class described, intermittently rotatable means for advancing a cell, means operated during the rest period of said advancing means for capping the cell, and means for afterwards applying a washer to the cell.

1,780,983. TANNING AGENT. ALBRECHT SCHMIDT, Frankfort-on-the-Main, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Jan. 4, 1929, Serial No. 330,431, and in Germany Sept. 7, 1926. 8 Claims. (Cl. 149—6.)

7. As a new product, a tanning agent consisting of an emulsion of an animal fat in an aqueous solution of a methyl cellulose.

1,780,984. FURNACE. JACK FENNER SHELTON, Memphis, Tenn. Filed Mar. 28, 1929. Serial No. 350,690. 8 Claims. (Cl. 126—116.)



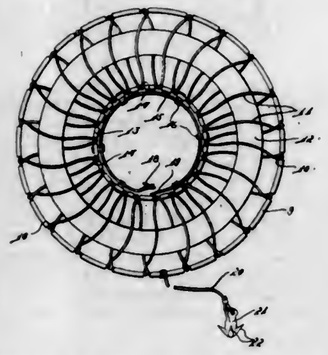
1. A furnace comprising an outer shell, an inner hollow shell having a passage therethrough for hot air, a combustion chamber in communication with the outer shell, a discharge pipe connected with the outer shell, spiral tubing having one end in communication with the outer shell and the other end connected to the discharge pipe.

1,780,985. SEED PAN. JACK F. SHELTON, Memphis, Tenn. Filed Apr. 3, 1929. Serial No. 352,216. 2 Claims. (Cl. 209—327.)



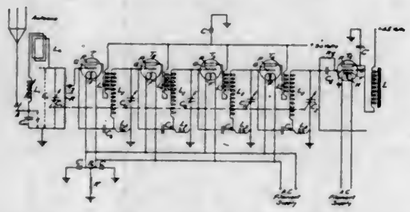
1. An attachment for threshing machines comprising a seed pan, a perforated plate having stepped sections, and means for oscillating said plate over the pan, and means on the plate engageable with the top of the pan for causing said plate to be elevated above the top of the pan when said plate is oscillated, said plate being inclined at an angle to the horizontal and having its outer elevated end freely movable over the outer end of the pan.

1,780,986. PROTECTIVE DEVICE. FRANK SIPOS, Detroit, Mich. Filed Mar. 8, 1929, Serial No. 345,281. Renewed Sept. 15, 1930. 3 Claims. (Cl. 9—17.)



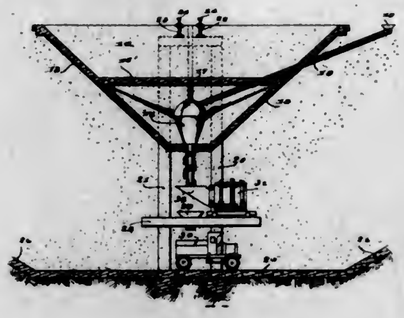
1. A device of the class described comprising: an outer ring; an inner ring arranged concentrically thereof; means for securing the said inner ring on the body of a wearer; flexible means for connecting said outer ring to said inner ring; and a buoyant member positioned concentrically of said rings between said inner ring and said outer ring and retained in position by said flexible means; and a hook bearing member attached to said outer ring.

1,780,987. INPUT COLLECTOR SYSTEM FOR ELECTRICAL AMPLIFIERS. HAROLD A. SNOW and WILLIAM D. LOUGHLIN, Boonton, N. J., assignors to Radio Frequency Laboratories, Inc., Boonton, N. J., a Corporation of New Jersey. Filed Sept. 6, 1928. Serial No. 304,276. 6 Claims. (Cl. 250—20.)



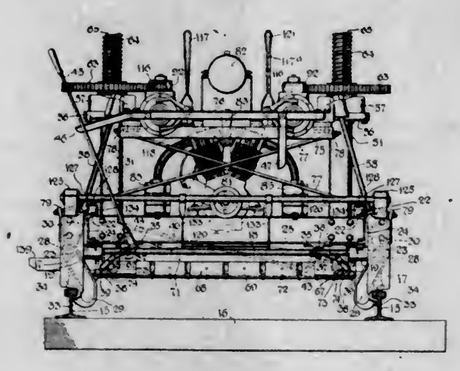
1. An input-collector system for a radio frequency amplifier comprising, in combination, a series circuit including an inductance, a coupling condenser connected to ground, a tuning condenser, an electromagnetic collecting device, and means for connecting a suplementary electrostatic collecting device across said coupling condenser.

1,780,988. APPARATUS FOR PROPORTIONING AND MIXING MATERIALS FOR CONCRETE. JOHN W. SPRY, Dallas, Tex. Filed Aug. 19, 1929. Serial No. 387,004. 7 Claims. (Cl. 83—73.)



1. A gravity feed concrete mixing apparatus or plant comprising a pit divided into compartments with inclined walls to direct materials therein to flow toward the center of the pit, a container between the compartments, a mixer hopper beneath the center of the pit, vertically disposed outlet pipes whereby materials may be discharged from each of said compartments and the container into said hopper, and a loading funnel beneath the mixer hopper.

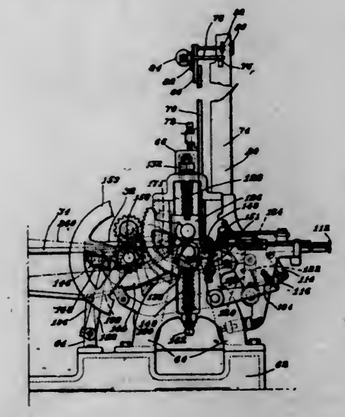
1,780,989. TRACK JACK. HENRY H. TALBOYS, Milwaukee, Wis., assignor to Nordberg Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 16, 1929. Serial No. 340,622. 20 Claims. (Cl. 104—7.)



1. A track jack for use on railway tracks whose rails serve as parts of signal circuits and the like, comprising in combination, a truck running on the rails of the track; means for insulating the treads of the wheels on one rail from the treads of the wheels on the other rail; rail-engaging means on the truck for each rail; means for insulating said rail-engaging means from each other; and hoisting means reacting between said rail-engaging means and the roadbed.

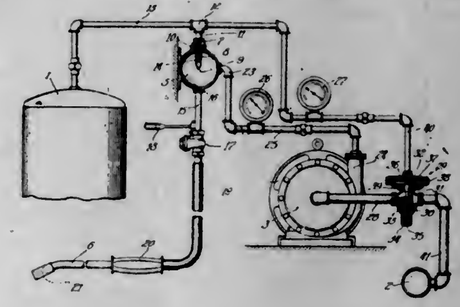
1,780,990. MACHINE FOR OPERATING UPON BLANKS. ERASTUS E. WINKLEY, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 7, 1922. Serial No. 593,126. 84 Claims. (Cl. 12—46.)

1. A machine for gouging and lip-cutting heel-blanks comprising, in combination, cutting means for forming two related cuts of substantially the same width but of different depths and different curvatures, and means relatively to move a flat heel blank and said cutting



means to make a shallow cut in the seat surface of the blank to form a gouge and to make an adjacent deeper cut at the breast end of said seat surface to form a lip.

1,780,991. CAR-WASHING SYSTEM. BURTON S. AIKMAN, Milwaukee, Wis., assignor to National Brake & Electric Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed May 26, 1927. Serial No. 194,288. 1 Claim. (Cl. 299—83.)



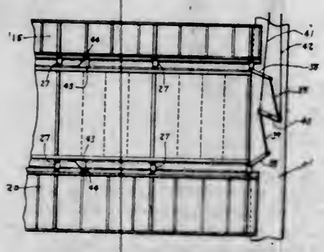
In a car washing system, a spray nozzle for air and liquid having a restricted opening, a source of liquid, a source of air under pressure, a substantially spherical large volume mixing chamber, an outlet port leading from said chamber, an air nozzle located in said chamber diametrically opposite from said port, a water inlet port located midway between said outlet port and air nozzle, a hose having a cross-section area substantially equal to the area of said outlet port for connecting said spraying nozzle to said mixing chamber, a pump supplied with liquid from said source for increasing the pressure of the liquid and delivering it to said mixing chamber where it is thoroughly mixed with air blown from said air nozzle, and the mixture discharged from said chamber through said outlet port, hose and spraying nozzle, and a throttle valve in the intake of said pump opened by the pressure of the air proportionately to that pressure to thereby keep the pressure of the liquid delivered by the pump to the mixing chamber at a predetermined value with respect to the pressure of the air delivered thereto.

1,780,992. COKING OVEN. ARNOLD BECKERS, Cologne-Lindenthal, Germany. Filed Apr. 24, 1929, Serial No. 357,631, and in Germany Jan. 25, 1927. 3 Claims. (Cl. 202—248.)



1. A coke-oven door structure comprising a door frame and door having opposing walls forming an inwardly narrowing gap around the door, a packing medium disposed in the gap around the door, a sectional frame composed of sections engaging the packing medium, a main frame spaced from the sectional frame, cross members between the main frame and sections of the sectional frame, supported by the main frame to press the sections individually and simultaneously and through them to locally adjust upon the packing medium the pressure exerted by the main frame, cam-guide abutments on the door frame, rods supporting the main frame and having portions slidably supported by said abutments to direct and force the main frame to a position in which the packing medium will be forced inwardly into the gap and tightly against the opposing walls.

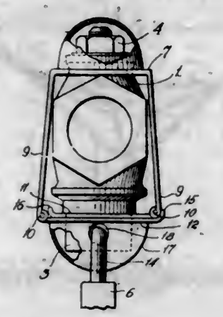
1,780,993. AIRCRAFT. VINCENT J. BURNELLI, New York, N. Y., assignor, by direct and mesne assignments, to The Uppercu-Burnelli Corporation, a Corporation of Delaware. Filed Nov. 2, 1927. Serial No. 230,645. 10 Claims. (Cl. 244—12.)



1. In an airfoil, a rigid section, an edge section, hinge means for joining the section, means preventing a flow of air between the sections, the axes of the hinge means being in a plane substantially perpendicular to the edge of the sections in one adjusted position of the edge section but the axes of said hinge means being in two divergent planes in another adjusted position of the edge section.

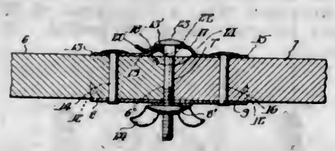
1,780,994. SEALING DEVICE FOR COCKS. CHARLES A. CALDWELL, Dallas, Tex. Filed Oct. 25, 1929. Serial No. 402,523. 1 Claim. (Cl. 70—122.)

In a locking device for valves or cocks, a box-shaped member formed to enclose the sides and bottom of the valve or cock, the end of the member being countersunk and forming a projecting dome-like housing for enclosing the nut and one end of the valve or cock; a lid projecting from each side of the box-shaped member, each lid having a slot, one slot registering with the other



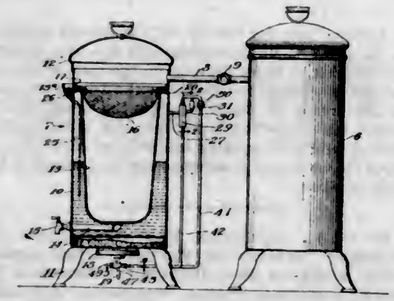
when the lids are closed on the valve; one of said lids including a housing disposed over its slot and adapted to entirely cover the stem of the valve, when the lids are closed; and a locking device traversing the stem and said housing to lock the valve stem in open or closed position.

1,780,995. CURTAIN STRETCHER. CLARENCE G. CARLSON, Chicago, Ill., assignor to Chicago Curtain Stretcher Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 17, 1928. Serial No. 326,551. 3 Claims. (Cl. 45—24.)



1. A curtain stretcher comprising two sections, a hinge comprising two hinged plates fastened to the sections on the bottom thereof to enable the sections to be extended in alignment with their adjacent ends abutting, and shouldered plates fastened to the sections on the top and extending longitudinally thereof, and means for clamping said plates one upon the other with their shoulders in locking engagement.

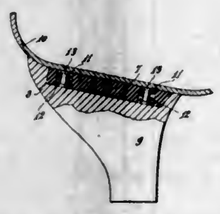
1,780,996. COFFEE URN. VINCENT D. CARROLL, Chicago, Ill. Filed Jan. 11, 1926. Serial No. 80,401. 4 Claims. (Cl. 53—3.)



1. A coffee urn comprising a container, a jar fitting within and surrounded by the container with a chamber

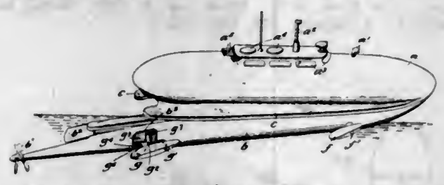
formed therebetween for the boiling of water therein, a heater for the container, and a pressure responsive device connected to the chamber between the container and the jar above the water level therein, and associated with the heater to control the same in accordance with the pressure in said chamber.

1,780,997. CUSHIONED HEEL FOR SHOES. WILLIAM M. COHAN and MICHAEL N. RATZAN, Brooklyn, N. Y. Filed June 5, 1929, Serial No. 368,652. Renewed Apr. 4, 1930. 5 Claims. (Cl. 36—37.)



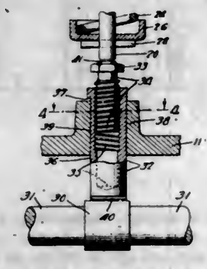
1. In combination with a shoe, a shoe heel having a recess at the shoe engaging side thereof, cushioning means arranged in the heel recess comprising a pad of resilient material conforming to the shape of the recess and arranged with perforations about the marginal portion thereof, and springs having greater resiliency than the material of the pad arranged in alternate perforations confined between the shoe and the bottom wall of the heel recess.

1,780,998. BOAT. ALDO CURIONI, Larchmont, N. Y., assignor of one-half to John R. Hinchcliffe, Carolina, R. I. Filed May 29, 1928. Serial No. 281,507. 11 Claims. (Cl. 114—66.5.)



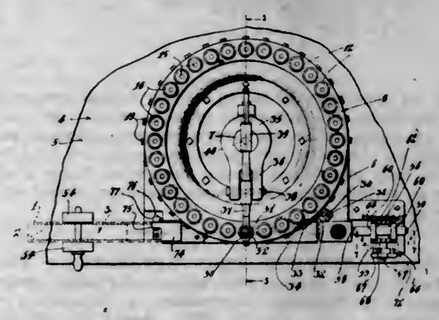
1. In a power driven surface vessel, a hull, a keel, submerged vanes carried by the keel upon either side and forward and aft thereof, and means to vary the relative angularities of one set of vanes.

1,780,999. VALVE MECHANISM. HUGUES LOUIS DARDELET, Nantes, France, assignor, by mesne assignments, to Dardelet Threadlock Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 5, 1929. Serial No. 330,451. 15 Claims. (Cl. 123—90.)



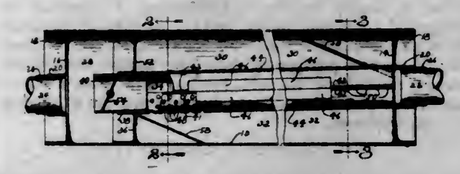
1. In a poppet valve mechanism for internal combustion engines, the combination with a spring-seated poppet valve controlling a passage communicating with an engine cylinder and means forming a seat for said valve, of actuating means for the valve comprising an adjustable tappet having a main section and a relatively adjustable valve-impacting head section, and a rotary cam operative on the main section of the tappet to impart a fixed extent of throw thereto, said tappet sections having a screw thread coupling the axial line of which extends substantially in the direction of reciprocation of the valve and the threads of which coupling are relatively displaceable to a positively limited extent axially of the coupling from free-turning relation into self-locked relation by direct rectilinear movement of the impact section under reaction forces exerted on the tappet as an incident to operation of the valve mechanism.

1,781,000. MEANS FOR FORMING LIGHT STRIPS FOR MOTION-PICTURE-FILM PRINTERS. LEON DE BEAULIEU, Hollywood, Calif., assignor, by mesne assignments, to Cinema Patents Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 12, 1927. Serial No. 174,989. 4 Claims. (Cl. 164—87.)



1. In an apparatus for forming light strips for motion picture printers, the combination of a base, a carriage mounted to rotate on the base, a plurality of punch members carried by the carriage; means of associating said base for supporting a light strip in a plane transverse with the axis of said punch members; means for arbitrarily moving said light strip in individual sections of uniform length; means for arbitrarily positioning the desired punch member over said light strip in selectively fixed position to center the punch in relation to a section of the light strip; and means for actuating the punch member.

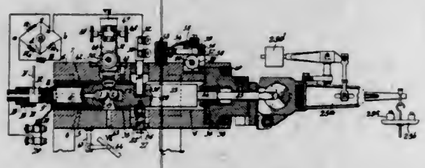
1,781,001. MUFFLER. CHARLES W. EISELE, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a Corporation of Delaware. Filed Oct. 5, 1927. Serial No. 224,064. 7 Claims. (Cl. 137—160.)



1. A muffler of the class described comprising an outer shell, end walls adapted to close the opposite ends of said shell, a partition extending longitudinally of said shell adapted to form a pair of chambers each on the opposite sides of said partition, said partition being formed by a

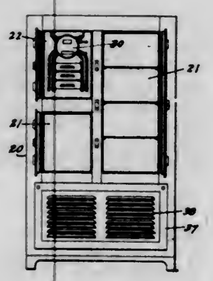
pair of stampings, each having a struck out portion forming a central chamber extending longitudinally between the stampings of said partition, an inlet passage communicating with one end of said central chamber, a communication between the opposite end of said central chamber and one end of one of the chambers formed by said partition, a communication between the opposite end of said last named chamber and the other of said chambers formed by said partition, and an outlet passage communicating with said last named chamber.

1,781,002. METHOD AND APPARATUS FOR USE IN TESTING MATERIALS. ROBERT ESNAULT-PELTERIE, Paris, France. Filed Apr. 4, 1927, Serial No. 180,874, and in Great Britain Feb. 4, 1927. 26 Claims. (Cl. 265—16.)



1. An apparatus for use in testing physical properties of materials, said apparatus including means for varying by known values the pressure between pieces of material, an electric circuit including the contact area between said pieces, and electric measuring means sensitive to variations in the electric resistance of said contact area.

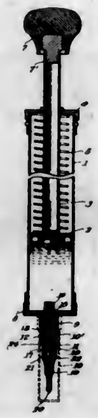
1,781,003. REFRIGERATING APPARATUS. JOHN RALPH FEHR, Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation, a Corporation of Delaware. Filed Dec. 2, 1926. Serial No. 152,262. 11 Claims. (Cl. 62—95.)



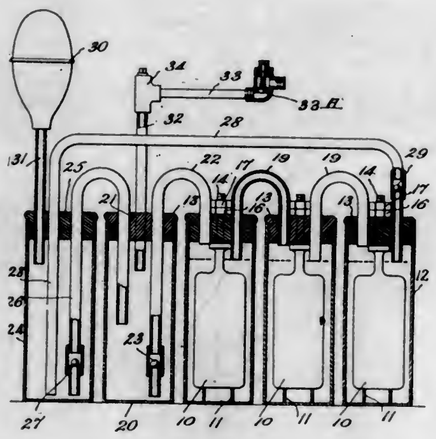
11. A cooling unit for mechanical refrigerators comprising a header for liquid refrigerant, a plurality of refrigerant conveying ducts, certain of said ducts being closed at their lower ends and connected at their upper ends to receive refrigerant from the header and return gaseous refrigerant to said header, said certain ducts cooperating with other of said ducts to provide a freezing zone therebetween.

1,781,004. PLANT-TREATING APPARATUS. CHARLES L. GIEZENTANNER, Montesano, Wash. Filed Mar. 7, 1928. Serial No. 259,774. 5 Claims. (Cl. 47—49.)

2. A device of the class described comprising a cylinder for containing liquids, having a discharge nozzle at one end, a plunger in said cylinder, a handle connected to said plunger and projecting from the end of the cylinder opposite said plunger, a valve controlling the discharge through said nozzle from the cylinder, and a needle projecting through said nozzle and operatively disposed relative to the valve to unseat the same when its projecting end is pressed against an object.



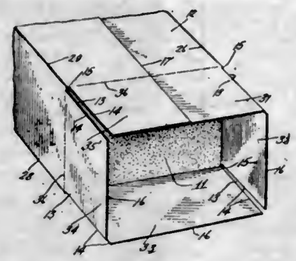
1,781,005. ELECTRIC BATTERY SYSTEM. EDWIN R. GILL, Yonkers, N. Y., assignor to E. R. Gill Battery Co., Inc., New York, N. Y. Filed Aug. 7, 1925. Serial No. 48,711. 9 Claims. (Cl. 136—162.)



1. A wet battery system, comprising a series of intercommunicating cells, a filling chamber connected by a fluid passage with one end of the series, an overflow chamber connected by a fluid passage with the opposite end of the series, and communicating means joining said overflow chamber with said filling chamber.

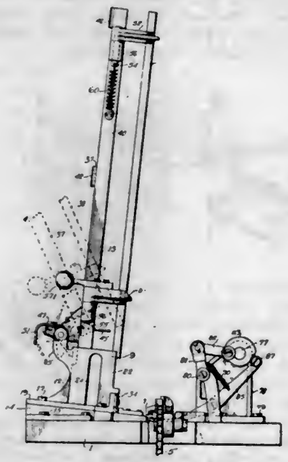
CARNEGIE LIBRARY OF ATLANTA

1,781,006. ICE-CREAM-CONTAINER LINER. PAUL L. GODDARD, Oak Park, Ill., assignor to Central Waxed Paper Company, Chicago, Ill., a Corporation of Illinois. Filed May 2, 1927. Serial No. 188,316. 3 Claims. (Cl. 229—87.)



1. An ice cream brick wrapper and carton liner, comprising a sheet of wrapping material provided with slots extending in from an edge and setting off flaps, said slots having rounded inner ends.

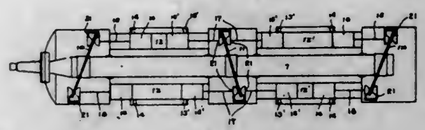
1,781,007. DELIVERY MECHANISM FOR ADDRESSING MACHINES. PAUL A. GOLLNICK, JOHN J. TOOLAN, and GEORGE HARRED, Chicago, Ill., assignors, by mesne assignments, to Selectograph Company, Chicago, Ill., a Corporation of Illinois. Filed May 31, 1928. Serial No. 282,014. 13 Claims. (Cl. 271—44.)



1. In a device of the class described, a magazine forming a vertically disposed guideway for cards and comprising a hopper part having an outlet opening adjacent its lower end, a movable part located above said hopper part and tiltable with respect thereto, and a shelf mounted on said tiltable part and movable into said guideway for temporarily supporting certain of the cards, said shelf being retractable to permit the cards to drop into said hopper part, said hopper being of sufficient length to permit the storing of a plurality of cards directly below said shelf.

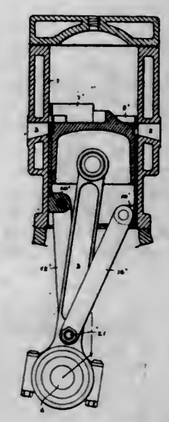
1,781,008. INTERNAL-COMBUSTION ENGINE. HERALD B. GREENING, Hamilton, Ontario, Canada, and JAMES W. GALLOWAY, Detroit, Mich., assignors to Galloway Engineering Company Limited, Hamilton, Ontario, Canada. Filed Jan. 14, 1929. Serial No. 332,383. 4 Claims. (Cl. 123—58.)

4. An internal comoustion engine comprising a rotatable shaft, a plurality of cylinders arranged around and parallel with said shaft, a pair of swash plates rigidly mounted on said shaft each disposed in angular relation to the shaft and in a plane parallel with the plane of disposition of the other, a swash plate mounted on said shaft between the aforesaid swash plates in angular relation to the shaft and being disposed in a plane intersecting the planes of disposition of the aforesaid swash plates, a group of cylinders arranged circumferentially of said shaft between each of said pair of swash plates and the intermediate swash plate, exhaust ports arranged at the ends of said



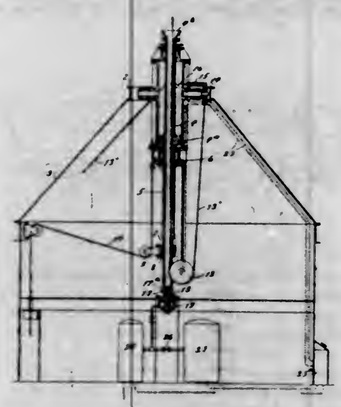
cylinders adjacent the intermediate swash plate, pistons in said cylinders co-operating with said ports and with said intermediate swash plate, intake ports in the other end of said cylinders, and pistons in said cylinders co-operating with said intake ports and with said pair of swash plates, the intermediate swash plate being set in a circumferentially advanced position relative to the first-mentioned pair of swash plates whereby all of the pistons co-operating therewith operate in a group in advanced relation to the remaining co-operating groups of pistons.

1,781,009. TWO-CYCLE INTERNAL-COMBUSTION ENGINE. HERALD B. GREENING, Hamilton, Ontario, Canada, and JAMES W. GALLOWAY, Detroit, Mich., assignors to Galloway Enginering Company Limited, Hamilton, Ontario, Canada. Filed Jan. 14, 1929. Serial No. 332,384. 7 Claims. (Cl. 123—47.)



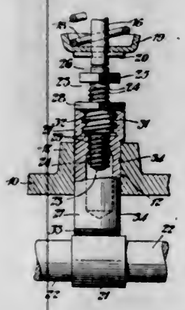
1. In a two-cycle combustion engine, the combination with a cylinder having inlet and exhaust ports, a crank shaft, a piston operating in the cylinder, and a connecting rod operatively connecting said crank shaft and piston, of a pair of valves moving with said piston, and means flexibly and operatively connecting said valves with said connecting rod beyond its longitudinal mid-point whereby a differential longitudinal reciprocation is imparted to said valves to control the inlet and exhaust ports.

1,781,010. AIRSHIP MOORING-MAST GEAR. ARCHIBALD HALL-BROWN, Purley, and EDWIN WALTER JONES, Lincoln, England, assignors to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Nov. 26, 1927, Serial No. 235,850, and in Great Britain Dec. 4, 1926. 19 Claims. (Cl. 244—2.)



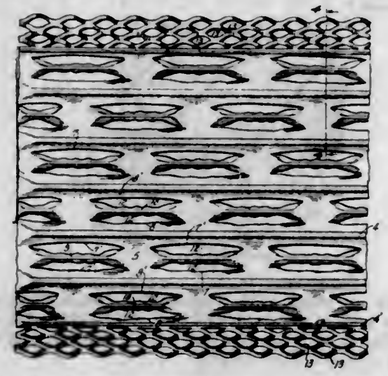
1. An airship mooring mast comprising two telescoping elements, means on one of said elements to receive a part of an airship, and fluid pressure means causing relative movement between said elements.

1,781,011. VALVE MECHANISM. WILLIAM E. HOKE, Baltimore, Md., assignor to Dardelet Threadlock Corporation, New York, N. Y., a Corporation of Delaware. Filed Apr. 16, 1929. Serial No. 355,571. 9 Claims. (Cl. 123—90.)



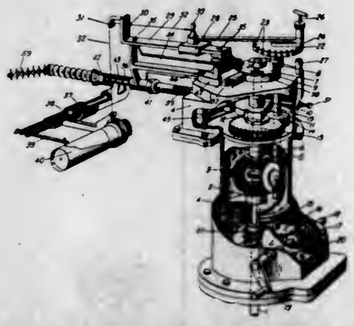
1. A poppet valve mechanism comprising a driven element, an actuating cam therefor, and an extensible and contractible tappet interposed directly between the cam and driven element and comprising an extensible and contractible duplex member having a main section and a locking section directly screw thread coupled and a unitary member directly screw thread coupled with both sections of the duplex member by threads of a different pitch from that of the threads coupling the sections of the duplex member, the axes of the threads being disposed for adjustment of one of the tappet members toward and from the driven element.

1,781,012. EXPANDED METAL LATH. WILLIAM G. HURLBERT, Jr., and ELMER E. MARSHMAN, Warren, Ohio. Filed Mar. 31, 1927. Serial No. 179,852. 12 Claims. (Cl. 72—116.)



8. A metal lath comprising a body having a perforated unexpanded central portion, longitudinal reenforcing ribs in said portion, marginal perforated portions distorted and constituting open meshwork, said longitudinal ribs lying in a medial plane of said open mesh work.

1,781,013. METHOD AND APPARATUS FOR OBTAINING INDICATOR DIAGRAMS. HAROLD M. JACKLIN and CHARLES P. ROBERTS, Columbus, Ohio; said Roberts assignor to said Jacklin. Filed Mar. 15, 1926. Serial No. 94,776. 19 Claims. (Cl. 234—23.)



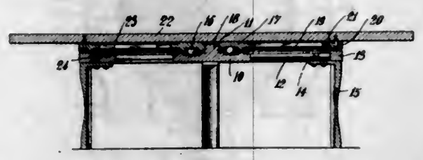
1. A device for indicating the pressure in engine cylinders comprising a means operable by the pressure from a cylinder for controlling one element of a recording means, a pitman and crank mechanism for operating the other element of such recording means, the pitman and crank of said mechanism being of the same proportion as the connecting rod and the crank of the engine being tested, said mechanism being driven from the engine by means of speed reduction gearing.

1,781,014. BUCKLE SUPPORT. MATTHEW J. KEEVERS, Northampton, Mass. Filed May 9, 1928. Serial No. 276,256. 1 Claim. (Cl. 2—245.)



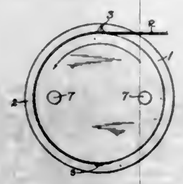
In a support of the class described, a vamp embracing clamping section comprising two jaws, an upper and a lower jaw, adapted respectively to fit over and under a vamp, the upper jaw having a vamp engaging nib, and the lower jaw having a vamp engaging prong, the nib and the prong being offset with respect to each other and so relatively located that the nib tends to cause the prong to penetrate the material of the vamp upon attempted movement of said support off the vamp.

1,781,015. REVOLVING TABLE. ANTON KEIPP, Mansfield, Ohio. Filed Oct. 20, 1926. Serial No. 142,795. 1 Claim. (Cl. 45—26.)



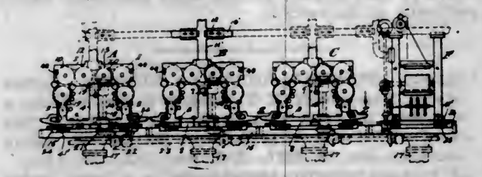
A revolving table comprising a lower support, an integral, central post on said support, an upper support mounted over said post, said lower support having a plurality of recesses in its under face, anti-friction bearings intermediate said supports, legs on said lower support, a top plate on said upper support, a flat spring depending from said upper support and means on said flat spring engageable with the recesses to check the revolutionary speed of said table.

1,781,016. ROOFING ROLL. HENRY KIELBERG, Martins Ferry, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va., a Corporation of Delaware. Filed July 31, 1929. Serial No. 382,524. 2 Claims. (Cl. 206—59.)



1. In a roofing roll, a pair of unconnected heads of drum-like form, radially outwardly struck tongues formed on each of said heads to engage through the inner end portions only of the roofing material and to be bent down into seated relation to said end portion for anchoring said material, portions of said heads being adapted to be abutted by the opposite lateral edges of the material and said heads being held by said material in their properly spaced relation.

1,781,017. PRINTING MACHINE. HARRY G. KNOX, New York, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a Corporation of New York. Filed June 29, 1926. Serial No. 119,268. 23 Claims. (Cl. 270—5.)



1. The combination of a base or support, a plurality of press units arranged in line on the support, and means arranged at each unit for adjusting the units in horizontal and vertical planes relatively to the support to align the unit with respect to any other unit so that the cylinders of the units will be in parallelism with each other.

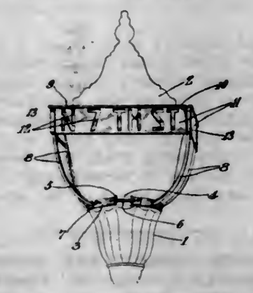
1,781,018. PROCESS OF PREPARING ARTIFICIAL TEXTILE PRODUCTS WITH REDUCED LUSTER FROM VISCOSE. THEODOOR KOCH, Arnhem, Netherlands. Filed Oct. 3, 1927, Serial No. 223,831, and in the Netherlands Feb. 11, 1927. 4 Claims. (Cl. 106—40.)

1. As a new composition of matter to be spun into artificial silk, viscose containing chlorobenzene.

1,781,019. COLD-WATER PAINT AND METHOD OF MAKING SAME. LEON H. LARSON, Kalamazoo, Mich., assignor to The Kalbfleisch Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 29, 1927. Serial No. 164,657. 2 Claims. (Cl. 134—50.)

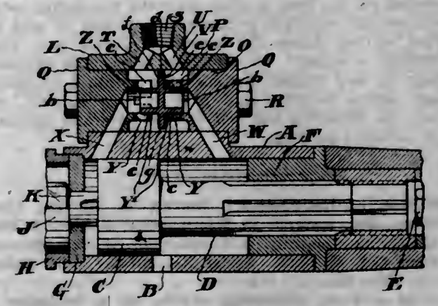
2. An improved cold water paint comprising substantially calcium aluminate and calcium caseinate in suspension in an alkaline aqueous solution.

1,781,020. STREET SIGN. MAURICE RICHARD LEAHY, Kansas City, Mo., and MICHAEL JOSEPH PHELAN, Kansas City, Kans. Filed Aug. 22, 1928. Serial No. 301,278. 7 Claims. (Cl. 40—131.)



1. A construction of the character described, including in combination, a supporting member adapted to be mounted on a suitable post or support, a plurality of arms extending upwardly from said supporting member, an integral rectangular sign frame, stencil members secured to the sides of said rectangular frame, means for securing the ends of the stencil members together and to the ends of said arms, and means for holding translucent plates on said stencil members.

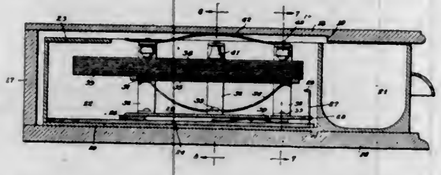
1,781,021. VALVE FOR ROCK DRILLS. EARL B. LEAR, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 25, 1927. Serial No. 215,868. 4 Claims. (Cl. 121—19.)



1. In a fluid actuated rock drill, the combination of a cylinder and piston, a valve chest having a valve cham-

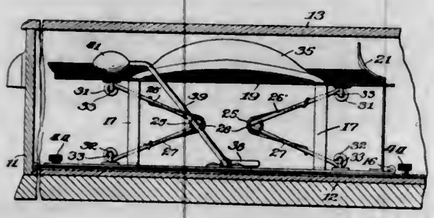
ber, supply passages conveying pressure fluid into the valve chamber, inlet passages leading from the valve chamber to the cylinder and of larger area than the supply passages, a distributing valve in the valve chamber comprising cylindrical end projections controlling the inlet passages, said projections being intermittently exposed to compression from the cylinder for throwing the valve, and a flange on the valve reciprocable between the supply passages and constantly exposed at both ends to pressure fluid, said flange being of smaller diameter than the valve chamber to permit the flow of pressure fluid over the perimeter of the flange to create a suction thereon to assist the compression in throwing the valve.

1,781,022. NOTE HOLDER AND DISPENSER. HAROLD LEVY, New York, N. Y. Filed Oct. 20, 1926. Serial No. 142,837. 17 Claims. (Cl. 129—35.)



1. In a note holder, a guide frame, a spring-pressed member on the frame guided thereby and normally held upwardly, engaging members on the frame having depending portions opposing the spring-pressed member and adapted to hold a stack of notes between the spring-pressed member and depending portions in flattened-out position, said frame being freely open between at least two depending portions to accommodate a hand in depressing the notes for removal of the same.

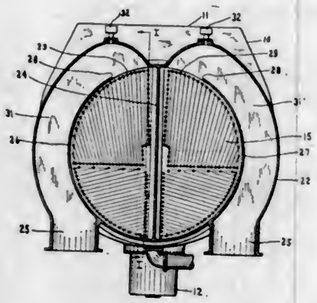
1,781,023. NOTE HOLDING AND DISPENSING DEVICE. HAROLD LEVY, Chicago, Ill. Filed Oct. 26, 1929. Serial No. 402,781. 19 Claims. (Cl. 129—35.)



1. A note holder and dispenser, a base, uprights mounted on the base, a plate mounted for sliding movement on said uprights, note-confining means on said uprights, spring means for yieldingly urging said plate upwardly, a support for said base, adjustable extension means on said support for engaging within a container, hinge means securing said base to said support, and means for elevating one end of said base and retaining it in elevated position.

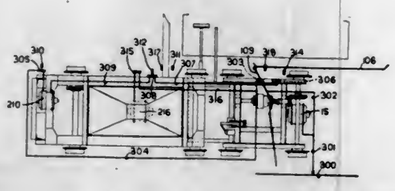
1,781,024. CONDENSER. JOSEPH P. LIDIAK, Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 4, 1929. Serial No. 397,354. 12 Claims. (Cl. 257—43.)

1. In a water circulating system for a condenser, a tube nest having water boxes located at each end thereof, one of said water boxes having an outlet connection located at its lower portion and an upwardly extending dam structure interposed between the outlet connection



and the tube nest and terminating near the top of the tube nest, said dam structure being disposed laterally of the tube nest.

1,781,025. OPERATING MECHANISM FOR SCOTCH HEARTHS. HUGH R. MACMICHAEL, El Paso, Tex., assignor to American Smelting and Refining Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 21, 1929, Serial No. 341,600. Renewed Apr. 5, 1930. 14 Claims. (Cl. 266—34.)

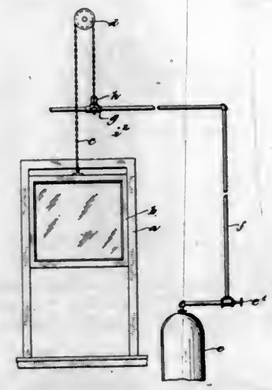


1. In combination with a hearth type furnace, a mechanical poker and shovel for operating said hearth, a first carriage carrying said poker and shovel, a mechanical feeder for said hearth, a second carriage carrying said feeder, means for intermittently moving said first carriage along said hearth, means for continuously moving said second carriage along said hearth, means for rendering said poker and shovel inoperative when said first carriage has traversed said hearth, means for rendering said feeder inoperative when said feeder carriage has traversed said hearth, and means for causing both of said carriages to return to their original position while said poker, shovel and feeder are inoperative.

1,781,026. FIRE-EXTINGUISHING SYSTEM. DANIEL MAPES, Mamaroneck, N. Y., assignor to Walter Kidde & Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 2, 1928, Serial No. 296,879, and in Germany Aug. 18, 1927. 2 Claims. (Cl. 169—11.)

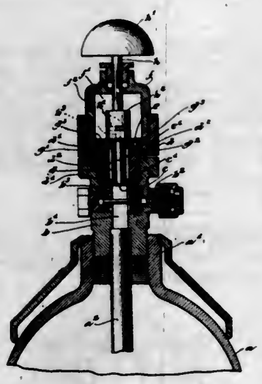
1. In a fire protective system including a closure having means to hold the same normally open, a source of fire extinguishing medium under pressure and a pipe line therefor, a release device interposed in the pipe line and actuated by the pressure of the fire extinguishing medium

therein to release said closure, said release device comprising a fitting through which the fire extinguishing medium



passes, a cylinder in communication with the fitting, and a plunger in said cylinder having a stem extending through the fitting and engaging the holding means.

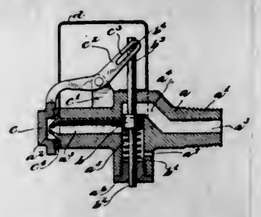
1,781,027. RELEASE DEVICE FOR FLUIDS UNDER PRESSURE. DANIEL MAPES, Mamaroneck, N. Y., assignor to Walter Kidde & Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 29, 1928. Serial No. 315,648. 15 Claims. (Cl. 137—53.)



1. A releasing mechanism of the character described comprising a container for a fluid under pressure, a frangible disc carried by the container, a reinforcing means, pressure transmitting means between the reinforcing means and the disc, and means to exert a pressure on the transmitting means to rupture the disc against the pressure in the container.

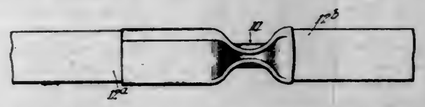
1,781,028. NONCLOGGING NOZZLE FOR FIRE-EXTINGUISHING SYSTEMS. DANIEL MAPES, Mamaroneck, N. Y., assignor to Walter Kidde & Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 30, 1928. Serial No. 315,940. 4 Claims. (Cl. 299—125.)

2. A discharge device for fire extinguishing systems comprising a nozzle, a cover for the nozzle, means to mount the cover pivotally on the nozzle, a cylinder formed in the nozzle and exposed to pressure of the fire extinguish-



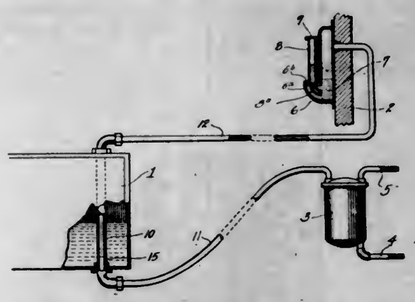
ing medium, a piston in the cylinder, a spring engaging the piston to urge it to a normally retracted position, and means operatively connecting the piston to the cover.

1,781,029. SEAL. EUGENE H. MCGEE, Chicago, Ill., assignor, by mesne assignments, to Signode Steel Strapping Company, a Corporation of Delaware. Filed Dec. 30, 1925. Serial No. 78,331. 4 Claims. (Cl. 24—23.)



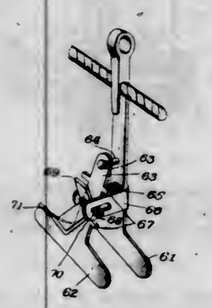
1. A tension resisting joint for package strapping comprising in combination the portions of the strapping to be joined, and a sealing sleeve embracing said strapping and comprising two flanges, in which crimped deformations are made, one of said flanges overlapping the other and the outermost of said overlapping flanges having its edge lying well beyond the median line of the sleeve.

1,781,030. GAUGE FOR GASOLINE TANKS, ETC. HENRY MOSSBACH, Seattle, Wash. Filed Mar. 1, 1923. Serial No. 621,981. 3 Claims. (Cl. 73—54.)



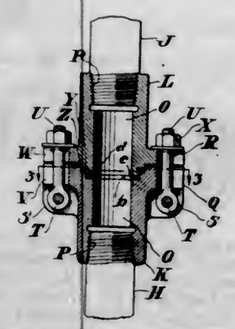
1. In combination, a gasoline supply tank, an intermittently operating suction device having a tube for withdrawing gasoline from the tank, a liquid level gauge adapted to be operated by air pressure and a pressure tube extending through the tank having connection at its lower end with the suction tube and at its upper end with the liquid level gauge, and having a relatively small port therein adjacent the base of the tank through which gasoline may flow into the tube during inactive periods of the suction device to cause a reading to be shown on the gauge in accordance with the degree of pressure created by the air that is trapped in the upper portion of the pressure tube when gasoline from the tank rises therein, the said port being of insufficient area to readily supply the suction tube in order that the upper portion of the tube will be cleared of gasoline and all air pressure removed from the gauge during active periods of the suction device.

1,781,031. CLOTHESPIN. FRANK PERSSENDA, Harrison, N. J. Original application filed Feb. 14, 1929, Serial No. 339,776. Divided and this application filed Apr. 7, 1930. Serial No. 442,249. 1 Claim. (Cl. 24—137.)



A clothespin comprising a shank, a jaw at the lower end of said shank, a pair of parallelly arranged ears projecting from said shank, said ears being provided with slots at their free ends, a strip positioned between said ears, a jaw formed at the lower end of said strip, the upper end of said strip being in pivotal association with said shank, a coil spring interposed between said shank and said strip for normally holding said last named jaw away from said first named jaw, a U-shaped plate positioned between said ears, and pins laterally extending from said U-shaped plate from one of its angles, said pins being positioned within said slots in said ears, said U-shaped plate being adapted for making angular shifting movement upon said pins for bringing one end of said U-shaped plate against the adjacent face of said strip for the purpose of bringing said last named jaw towards said first named jaw against the tension of said coil spring.

1,781,032. CONNECTION FOR DRILL RODS. SNOWDEN B. REDFIELD, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Jan. 12, 1929. Serial No. 332,129. 3 Claims. (Cl. 285—134.)



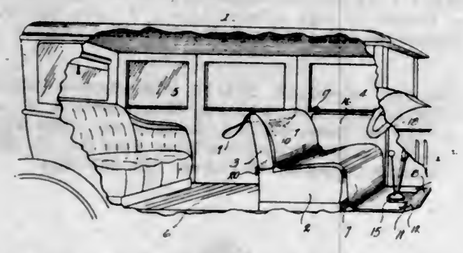
1. A connection for drill rods, comprising a pair of members, said members having passages therethrough, threads in the ends of the passages for threaded connection with sections of a drill rod, one of said members having a slot across one end, a projection on the other member extending into the slot and engaging the side walls of said slot to prevent relative rotation between the members, a recess in one member, a boss on the other member extending into the recess to centralize the members with respect to each other, and means for clamping the members together.

1,781,033. ELECTRICAL CONDENSER. SAMUEL RUBEN, New York, N. Y., assignor to Ruben Patents Company, New York, N. Y., a Corporation of Delaware. Filed May 6, 1927. Serial No. 189,231. 8 Claims. (Cl. 175—41.)



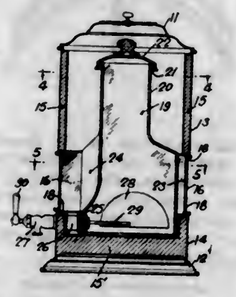
8. A dielectric composition for electric condensers, comprising a mixture of finely divided crystalline titanium dioxide and a viscous organic binder medium.

1,781,034. AUTOMOBILE SEAT COVER. BERTRAND M. RUSSELL, Seattle, Wash. Filed June 18, 1928. Serial No. 286,240. 2 Claims. (Cl. 155—182.)



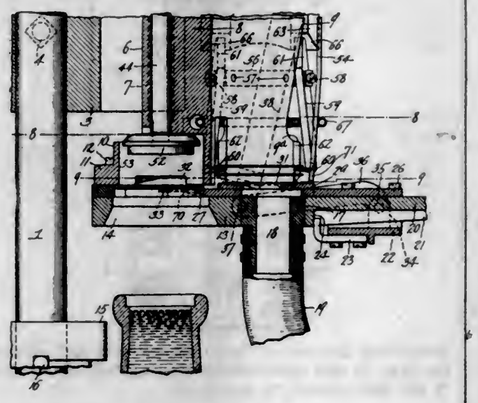
1. A seat cover of the character described comprising a strip of paper, or the like, adapted to be extended over a seat and forwardly thereof along the floor of an automobile, and loops at one end of the strip adapted for application to fittings of the vehicle rearwardly of the seat to hold that end of the strip in place and means at the other end of the strip for holding engagement with the floor mat.

1,781,035. DISPENSER. WILLIAM A. SCHATZ, Astoria, N. Y. Filed Nov. 7, 1927. Serial No. 231,423. 18 Claims. (Cl. 225—40.)



2. A device of the class described, comprising in combination a liquid-tight container having upper and lower insulated sections, a transparent section intermediate said insulated sections, a beverage container disposed in said first-mentioned container and having a transparent wall adjacent said transparent section of said first-mentioned container.

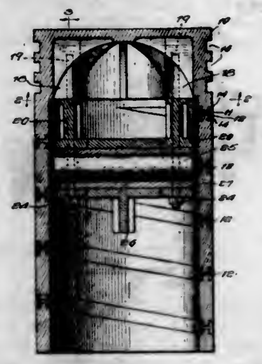
1,781,036. BOTTLE-CAPPING MACHINE. GEORGE W. SWIFT, Jr., Bordentown, N. J., assignor, by mesne assignments, to Bottle Cap Patents Company, Bordentown, N. J., a Corporation of New Jersey. Filed Nov. 16, 1928. Serial No. 319,837. 29 Claims. (Cl. 226—92.)



1. In a bottle-capping machine, the combination of a vertically-movable table provided with a cap-stacking hopper mounted thereon, said hopper being provided with an outlet at its lower end arranged to discharge caps onto said table, cap-retaining levers mounted on said hopper, means yieldably holding said levers in cap-retaining position, cams operated by the upward movement of said hopper for moving said levers to release position, and a reciprocable slide on said table for moving the caps from the lower end of said hopper to cap-applying position.

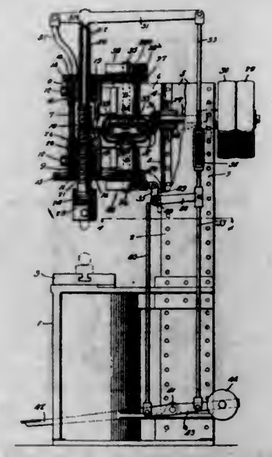
26. In a cap-feeding mechanism, the combination with a cap-stacking hopper provided with a downwardly-presented discharge outlet, a slide reciprocable across said discharge outlet, said slide being provided with a vacuum port-opening whereby it is adapted to grip the bottom cap in said hopper, means for controlling the suction in said vacuum port-opening, and means timed with the movement of said slide for controlling the release of successive bottom caps from said hopper.

1,781,037. PISTON. JOHN TATTER and WILLIAM H. PASCOE, Chicago, Ill. Filed Nov. 30, 1925. Serial No. 72,360. 10 Claims. (Cl. 74—108.)



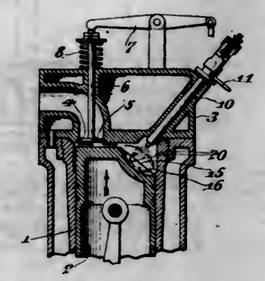
1. A piston having a helical member of at least one complete turn embedded therein and secured thereto by tongue and groove construction.

1,781,038. POWER PRESS. ROBERT THOMSON and ALFRED MORRIS THOMSON, Newark, N. J. Filed Dec. 21, 1927. Serial No. 241,555. 80 Claims. (Cl. 78—35.)



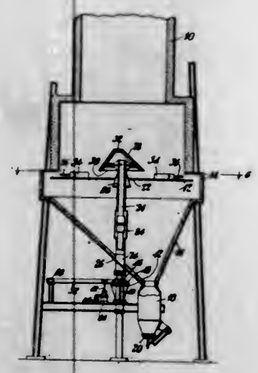
1. In a power press, a shiftably mounted ram; a differential gear mechanism; a drive element operatively connected to said mechanism; a driving connection between one side of the differential mechanism and said ram to move the latter on a working stroke; a driving connection between the opposite side of the differential mechanism and the ram to move the ram on a return stroke; means to control the movements of the ram; and automatic means to render said return driving connection inoperative and limit the extent of the return stroke of the ram.

1,781,039. INTERNAL-COMBUSTION ENGINE. OTIS D. TREIBER, Narberth, Pa., assignor to Treiber Diesel Engine Corporation, Camden, N. J., a Corporation of New Jersey. Filed May 28, 1927. Serial No. 194,888. 1 Claim. (Cl. 123—33.)



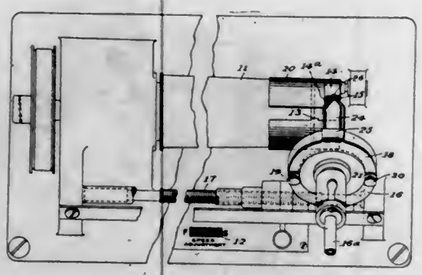
An internal combustion engine comprising a cylinder and a piston adapted to operate in said cylinder, the crown of the said piston having a portion located in a plane substantially at right angles to the axis of said piston and a portion at one side thereof located in a plane forming an acute angle with said axis, the said last mentioned portion having therein a centrally located depression, the outer edge of which is flush with the remaining part of the surface of said portion, the said remaining part of the surface occupying a single plane.

1,781,040. DISCHARGE CONE FOR GAS GENERATORS. HARVEY H. WONNING, Batesville, Ind., assignor to Combustion Utilities Corporation, New York, N. Y., a Corporation of Maine. Filed Dec. 12, 1925. Serial No. 74,934. 6 Claims. (Cl. 214—18.)



1. In discharging apparatus, a rotatable shaft, and a ratchet mechanism for operating said shaft comprising a member fixed to said shaft, a member loosely mounted on said shaft, means whereby said members operate said shaft in a given direction when said loosely mounted member is oscillated, said means producing a movement of said loosely mounted member longitudinally of said shaft, a power operated yoke for oscillating said loosely mounted member, and dashpot means attached to said yoke near said loosely mounted member and arranged to prevent pounding of said fixed and loosely mounted members during the operating of the ratchet mechanism.

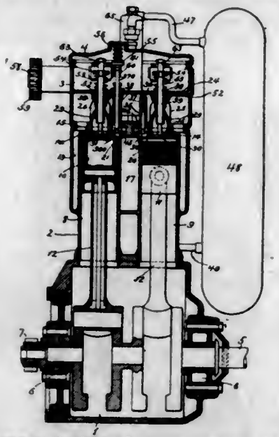
1,781,041. TIMING. CHARLES K. WOODBRIDGE, Flushing, N. Y., assignor to Dictaphone Corporation, Bridgeport, Conn., a Corporation of New York. Filed Aug. 21, 1923. Serial No. 658,597. 16 Claims. (Cl. 274—17.)



1. In combination, a rotating record-support having a contact member, a second contact member disposed in the path of the first contact member, one of the members being resilient, and means whereby the members produce staccato sounds upon contact with each other.

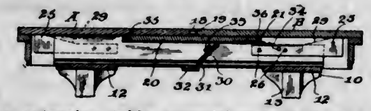
1,781,042. INTERNAL-COMBUSTION ENGINE. CHARLES H. ANDERSON, Lexington, Ky. Filed July 15, 1927. Serial No. 205,980. 23 Claims. (Cl. 123—1.)

1. An internal combustion motor, comprising a plurality of combined compression and power units including cylinders and pistons, means whereby air and gas are compressed separately by said units, means for mixing



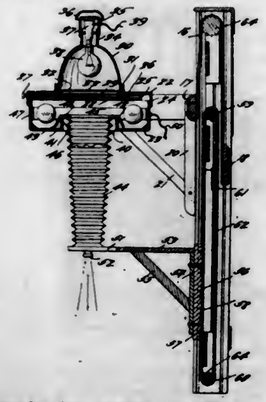
compressed gas and air under compression and supplying the same to said units alternately, and causing expansion of the fluid mixture in said units.

1,781,043. TABLE. GEORGE H. ANGERT, Cincinnati, Ohio, assignor to Angert Brothers, a Copartnership composed of Arthur C. Angert and George H. Angert, Cincinnati, Ohio. Filed Mar. 16, 1929. Serial No. 347,568. 10 Claims. (Cl. 45—112.)



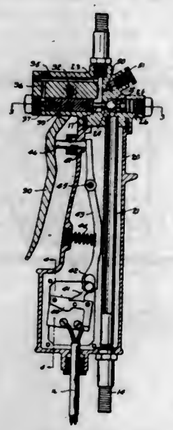
2. An extension table comprising a stationary frame including all of the supporting legs for the table, table top halves slidably mounted on the frame, a normally concealed leaf mounted within the table top and movably connected to the frame, means for raising said leaf into alignment with the tops of said halves when the latter are moved away from one another, a gate pivotally mounted on the frame and adapted to secure the leaf in its elevated position, and spring means for moving the gate into securing position.

1,781,044. PHOTOGRAPHIC REPRODUCTION APPARATUS. CAMILO MEDINA ARANA, Habana, Cuba. Filed Nov. 1, 1928. Serial No. 316,560. 6 Claims. (Cl. 88—24.)



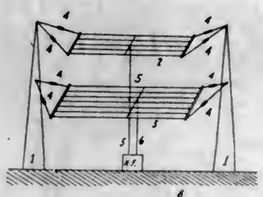
1. A reproduction camera including a hollow upright having the forward wall longitudinally divided and projected beyond the side walls, a camera supporting frame slidably guided by the projecting portions of the front wall, a band connected to the supporting frame, a roller within the upright over which the band passes, a counterbalance carried by the band within the upright, a camera including a lens supported in the camera supporting frame, a frame supporting lens, means for guiding the frame within the division of the front wall of the upright, an endless band connected to said means and operative within the upright, and a counterbalance carried by the endless band.

1,781,045. FLUID-DISPENSING APPARATUS. ROLLIN L. BACHER, Lakewood, Ohio, assignor to The United States Air Compressor Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 16, 1929. Serial No. 363,654. 4 Claims. (Cl. 221—47.1.)



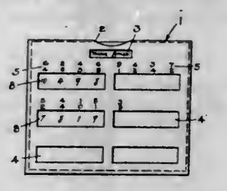
1. In combination, a lubricant compressor, an electric motor for operating the same, a flexible discharge conduit leading from the compressor, a casing in the form of a hand grip connected in the conduit, said casing having a trigger associated therewith, an arm pivotally mounted within the casing, means operatively connecting the trigger and arm, a controller within the casing for the motor, said controller being adapted to be closed when the trigger is moved in one direction, a valve within the casing and in said conduit, and means associated with the trigger to open the valve when the controller is closed.

1,781,046. ANTENNA. JOSEPH BETHENOD, Paris, France. Filed July 1, 1925, Serial No. 40,764, and in France July 11, 1924. 2 Claims. (Cl. 250—33.)



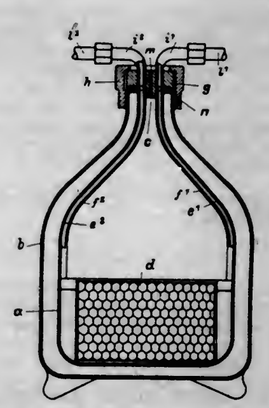
1. An antenna system for the emission of short waves comprising a sheet antenna supported, on towers fixed to the ground, at a relatively great distance above ground, and a counterpoise, supported similar to said antenna, for said antenna likewise supported at a relatively great distance above ground, the distance between said antenna and counterpoise being equal to or less than the distance between said counterpoise and ground.

1,781,047. EDUCATIONAL DEVICE. SELMA O. BONDESON, Seattle, Wash. Filed May 31, 1929. Serial No. 367,334. 3 Claims. (Cl. 35—12.)



1. A device of the class described, comprising an envelope provided on each of its sides with a plurality of openings, a test problem disposed adjacent each opening, a plurality of writing sheets enclosed in the envelope, adapted to be successively exposed through said openings for receiving answers to said problems, a backing sheet of relatively stiff material disposed in the envelope and on one side of the writing sheets, and a key envelope adapted to enclose the first-named envelope and contents, said key envelope having on each side a plurality of openings registrable with said openings in the first-named envelope, and an answer to each test problem disposed adjacent each of the openings in the key envelope.

1,781,048. CONTAINER FOR STORAGE AND TRANSPORT OF LIQUEFIED GASES. SCHULIM BRAUNSTEIN, Berlin, Germany. Filed Apr. 16, 1929, Serial No. 355,534, and in Great Britain Mar. 23, 1928. 5 Claims. (Cl. 62—1.)



1. A container for the storage and transport of liquefied gases comprising a heat insulated vessel adapted to contain a liquefied gas, the vessel being formed to provide inlet and outlet conduits extending into the vessel and opening at the mouth thereof, a removable stopper for the mouth of the vessel having inlet and discharge pipes which when the stopper is in place communicatively connect with said conduits, and means for closing said conduits when the stopper is removed.

1,781,049. WELL-DRILLING TOOL. CHARLES E. BRINTON, Los Angeles, Calif. Filed Mar. 31, 1926. Serial No. 98,641. 8 Claims. (Cl. 255—28.)

1. A well drilling tool, including in combination outer and inner conduits, said inner conduit being spaced from the wall of the outer conduit, sealing elements surrounding

the inner conduit and having sealed contact with the inner wall of the outer conduit longitudinally inwardly

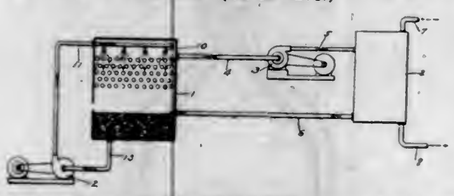


of its ends to form sealed buoyant chambers containing gas and means carried by some of the sealing elements for introducing a buoyancy creating gas to said chambers.

1,781,050. PROCESS OF PREPARING ETHYL ESTERS. ARTHUR R. CADE, Pittsburgh, Pa., assignor to Carbide and Carbon Chemicals Corporation, a Corporation of New York. Filed July 7, 1923. Serial No. 650,164. 3 Claims. (Cl. 260—103.)

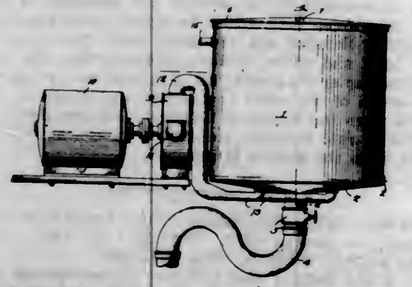
1. Process of preparing ethyl esters which comprises causing di-ethyl sulphate to react with a sodium salt of an organic acid in the presence of a solvent, substantially free from water, comprising a preformed portion of the ester to be prepared.

1,781,051. REFRIGERATION. WILLIS H. CARRIER, Essex Fells, N. J., assignor to Carrier Engineering Corporation, Newark, N. J. Filed Oct. 15, 1926. Serial No. 141,857. 7 Claims. (Cl. 62—178.)



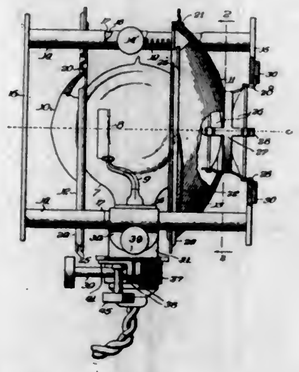
1. A process of refrigeration which comprises evaporating, compressing and condensing methylene chloride under a pressure at all times not materially greater than one atmosphere.

1,781,052. DISHWASHING MACHINE. JOHN E. CATLETT, San Francisco, Calif. Filed Aug. 30, 1929. Serial No. 389,487. 1 Claim. (Cl. 141—9.)



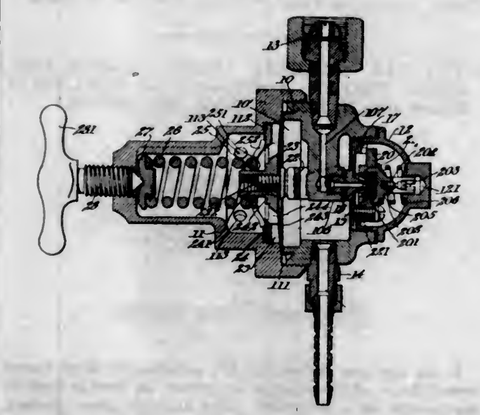
In a machine for washing dishes or the like the combination with a container having vent openings, of a valved drain extending downwardly from the bottom of the container, said bottom being flared upwardly from the drain, an air pump, means for actuating the pump, widely spaced ports extending through the bottom of the container at points remote from the drain, air pipes extending upwardly to the respective ports and connected to the air pump, said pipes and ports cooperating to direct widely-spaced, relatively-large jets of air upwardly into the container to throw the liquid contents of the container onto the dishes or the like in the container.

1,781,053. ILLUMINATING SYSTEM, REFLECTOR, AND LAMP ASSEMBLY. RALPH PULLIAM DE VAULT, Villa Park, Ill., assignor, by mesne asignments, to Acme Motion Picture Projector Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 5, 1925. Serial No. 54,625. 16 Claims. (Cl. 88—24.)



1. For use in a light projection apparatus, a reflector frame formed of a single metal disk, a rim portion formed thereon in a plane substantially transverse to the optical axis, the rim portion being disposed from a normal plane thereof to form a portion of a thead of a screw.

1,781,054. PRESSURE-REGULATING VALVE. CHARLES H. DOCKSON, Detroit, Mich. Filed Feb. 1, 1923. Serial No. 616,436. 16 Claims. (Cl. 50—10.)



4. In a pressure regulating valve, the combination of a casing providing a chamber having an inlet and an outlet, a nozzle at the discharge end of said inlet, a yoke movable in response to variations in pressure and having a threaded recess, a threaded retainer fitting in said recess, and valve means comprising a non-metallic disk held in said recess by said retainer and adapted to be seated against said nozzle, and a metal shell tightly fitting the periphery of said disk to prevent the breakage of the latter by impact against said nozzle, the threaded retainer being removable to permit the valve means to be replaced or reversed end for end when worn.

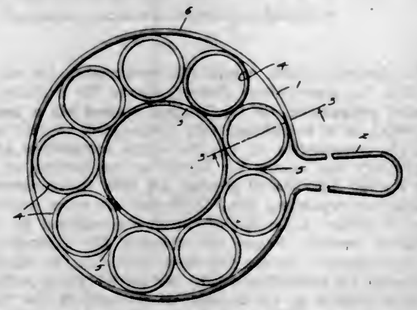
12. In a pressure regulating valve, the combination of a diaphragm, a valve-carrying member, a plate clamping said diaphragm to said member having means adapted to shear said diaphragm to relieve excessive pressure in said casing, and means for applying pressure to said diaphragm comprising a resilient plate bearing against such clamping plate and an adjustable spring bearing against said resilient plate.

13. In a pressure regulating valve for use with various kinds of containers of gas under pressure, the combination of a casing providing a chamber having an inlet and threaded openings; a high pressure gage coupled in one of said openings; and a low pressure gage, an outlet nipple and a blowpipe supporting hook coupled in the remaining threaded openings, the low pressure gage, the outlet nipple and the hook being interchangeable in the openings, to enable the shape of the pressure reducing valve to be changed to conform to the peculiarities of different kinds of gas supplying containers.

1,781,055. INDICATING DEVICE FOR CARRIERS. ROBERT L. DUDLEY, San Francisco, Calif. Filed Jan. 7, 1929. Serial No. 330,873. 3 Claims. (Cl. 40—68.)

1. An indicating carrier comprising in combination with a hollow tubular casing, a plurality of rotatable rings mounted on the casing, each ring being provided with a series of numbers or characters, a band secured to the casing and extending over the parts of the rings having the numbers or characters thereon, the said band being provided with apertures therein through which certain numbers or characters on the rings are visible, and means engageable with the rings for normally maintaining the rings in fixed positions.

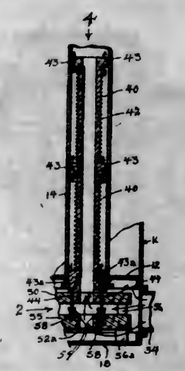
1,781,056. INDIVIDUAL-PAN-SUPPORTING DEVICE. JULES H. ELDER, Memphis, Tenn. Filed Mar. 6, 1930. Serial No. 433,770. 1 Claim. (Cl. 53—1.)



A device for supporting a plurality of individual cooking receptacles, comprising a pair of annular frames disposed in superposed relation, a handle projecting from the upper one of said frames and forming an integral

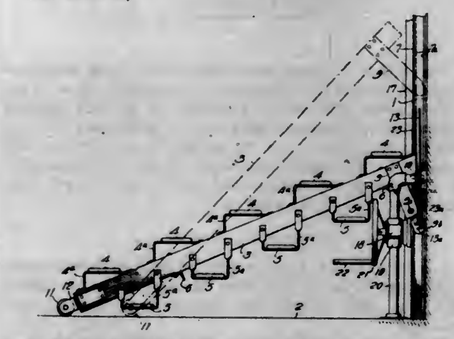
continuation thereof, a lattice like frame structure disposed vertically between and secured to said frames to maintain the same in spaced relation, and a plurality of connected annular frames disposed in the same plane as and within the upper one of the first mentioned frames, each of said last mentioned frames being designed to support a pan.

1,781,057. STEAM BOILER. GUSTAVE WALFRID ELMWALL, New York, N. Y. Filed Mar. 7, 1927. Serial No. 173,362. 6 Claims. (Cl. 122—32.)



2. In a steam generator, a casing, superposed partitions in the casing dividing the interior of the same into a heater chamber, a liquid chamber, an intermediate chamber and a superheater chamber, tubes extending through the liquid chamber, connecting a pair of said partitions and placing the heater chamber in communication with said intermediate chamber, a heater base arranged in the heater chamber and provided with heating projections which extend into said tubes, a pipe connecting the upper portion of the liquid chamber to the super-heater chamber, a steam outlet for the super-heater chamber, a conduit extending through the superheater chamber and connected to the upper one of said partitions, said conduit communicating with the intermediate chamber, a coil arranged exteriorly of the casing and communicating with said conduit, a feed water drum enclosing the coil, means for introducing feed water into the drum, feed water transfer means placing the drum in communication with the liquid chamber, and means including a pump for feeding fluid from the coil into said heater chamber.

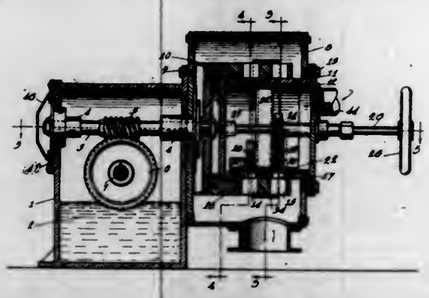
1,781,058. MOVABLE BLEACHER. FRANK B. FITZPATRICK, Holyoke, Mass., assignor to A. G. Spalding & Bros., New York, N. Y., a Corporation of New Jersey. Filed July 20, 1929. Serial No. 379,791. 5 Claims. (Cl. 189—1.)



1. Folding bleachers comprising vertical guides, a bleacher frame comprising rigidly connected stringers,

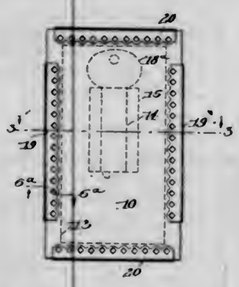
seat members carried by said stringers arranged in stepped relation thereon, means slidably connecting one end of said frame to said guides, and means for rigidly supporting said slidably connected end at a distance from the floor to cause said seat members to lie in substantially horizontal position.

1,781,059. TURBINE. STANISLAV HACKENBERG, San Francisco, Calif., assignor of one-half to Nafanaiel Hackenberg, San Francisco, Calif. Filed June 14, 1929. Serial No. 371,037. 5 Claims. (Cl. 253—81.)



1. In a turbine engine, a revolvably mounted drum slotted to present two parallel series of blades inclined in opposite directions, a fixed cylinder serving as bearing for the drum and having two series of perforations registering with said blades, means for discharging a pressure medium through said perforations against the blades and means for rendering either series of perforations and blades inactive, including means for adjusting the port area of each series of perforations.

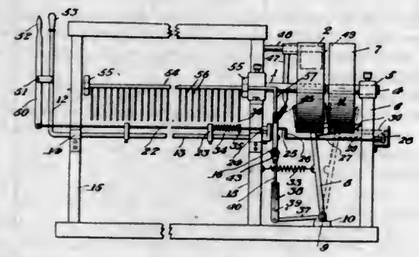
1,781,060. SAFETY RECEPTACLE FOR SMALL ARTICLES. WILLIAM R. HILL and WILLIAM F. DIESEL, Rochester, N. Y., assignors to Sargent & Greenleaf, Inc., Rochester, N. Y., a Corporation of New York. Filed Apr. 4, 1928. Serial No. 267,406. 10 Claims. (Cl. 229—68.)



1. An article holding receptacle of the class described comprising oppositely disposed walls having means binding their edges together in a manner to prevent opening and resealing of the receptacle without indication thereof, holding means within the receptacle for the article and a wrapper for the article supported by the holding means, said wrapper being constructed of material impervious to the rays of an X-ray machine.

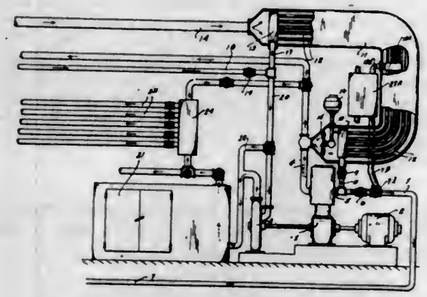
1,781,061. SAFETY ATTACHMENT FOR COTTONSEED LINTERS. PAUL HONEYCUTT, Mooresville, N. C. Filed Nov. 22, 1929. Serial No. 409,131. 5 Claims. (Cl. 19—164.)

1. In a cotton linter, the combination with the saw cylinder drive shaft, a fixed and a loose pulley thereon, a lever for adjusting the breast of the linter, and a belt shifting lever for shifting the drive belt from one to the other of said pulleys, a disk rotatable with the rocking movement of the breast adjusting lever, having an opening therein, a hand lever mounted for rocking movement upon and relatively close to the breast adjusting lever, a rod slidably mounted and pivotally connected to the second mentioned lever, the rod having a portion engageable in said opening, and means urging the rod in the direction of the disk whereby to be engageable at its said portion



in the opening in the disk, whereby to hold the head against rotation, and operative connection between the disk and the belt shifting lever for effecting movement of the lever to shift the belt upon the rotation of the disk, whereby, when the hand grips of the first and second mentioned levers are both grasped, and both levers are swung in unison, the said portion of the said rod will be disengaged from the said opening and the disk will be permitted to rotate to effect coaction of the lever to shift the belt to release the pulley.

1,781,062. THERMAL PLANT. JOHN D. HOUSTON, Prineville, Oreg. Filed Nov. 15, 1926. Serial No. 148,562. 1 Claim. (Cl. 257—9.)



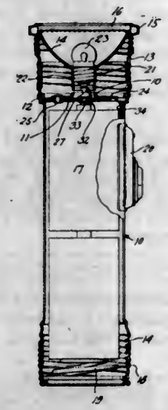
In thermal plants, means for compressing the air for raising the temperature thereof, means for utilizing the heated compressed air for heating normal air a portion of which is to be subsequently compressed, thereby causing the temperature of the thereafter compressed air to constantly rise, means for supplying the normal air and for forcing the heated normal air into the compressor, means for expanding the compressed air after providing heat to return a portion of the power required for compression thereof, means for utilizing the expanded air for refrigeration, means for variably mixing the expanded air, after its having been used for refrigerating purposes, with a portion of the normal air warmed by the heated compressed air, for heating and ventilating purposes; and means for utilizing another portion of the normal air heated by the compressed air for heating and ventilating purposes other than heretofore set forth.

1,781,063. ADJUSTABLE SHORE. HANS P. JESSEN, Omaha, Nebr. Filed Nov. 5, 1927. Serial No. 231,295. 1 Claim. (Cl. 248—2.)



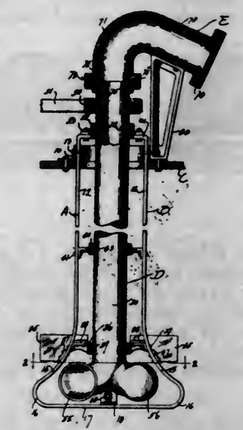
An adjustable shore, comprising a post section, adjustable strip supporting means mounted on said post section, a foot plate for supporting the post section and comprising a relatively flat sheet metal body portion of substantially rectangular configuration and having a pair of its oppositely disposed corners upturned for engagement against the opposite sides of the post, a bolt detachably engaging through said upturned corners of the foot plate and through the post for anchoring the latter to the foot plate, the intermediate corners of the foot plate having apertures therethrough adapted to receive nails and the like, and a base section for engagement beneath said foot plate and comprising a pair of oppositely inclined contacting members adapted for overlapping engagement to support the foot plate and the post section, said base section adapted to be moved into superposed relation to raise the foot plate and the post section, and said nails in the opening of the foot plate adapted to engage said base section for holding the same when adjusted.

1,781,064. ADJUSTABLE LAMP SOCKET. HOMER W. JONES, Newark, N. J., assignor to National Carbon Company, Inc., a Corporation of New York. Filed May 22, 1928. Serial No. 279,761. 7 Claims. (Cl. 240—10.5.)



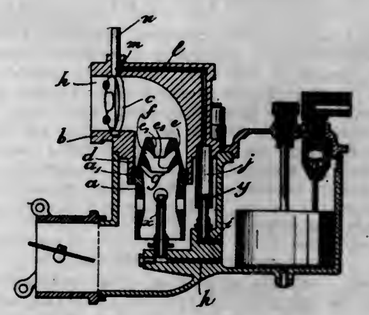
2. In a flashlight, a lamp holder comprising a socket and a base joined by a plurality of pliable portions adapted for being bent in pairs to provide relative movement between said base and said socket, one pair of said pliable portions being adapted for providing movement in different directions from those provided by the other pair.

1,781,065. ROTARY PUMP. HERMAN P. LEWIS, Tarentum, and EMERSON S. PETERS, New Sheffield, Pa. Filed Nov. 28, 1928. Serial No. 322,423. 2 Claims. (Cl. 103—100.)



1. A rotary pump, comprising a vertical open framework enlarged at its lower end to provide a base portion, a vertically disposed pipe mounted in bearings in the framework to turn therein, means for rotating the pipe, a stationary take-off connection coupled to the upper end of the pipe, a step bearing in the base portion of the framework for supporting the pipe, and a pair of intake extensions flaring radially from the lower end of the pipe in said base portion of the framework and being turned and opening in the direction of rotation of the pipe.

1,781,066. CARBURETOR. PAUL MEUNIER, Fleurus, Belgium. Filed May 19, 1927, Serial No. 192,715, and in France and Luxemburg Dec. 13, 1926. 1 Claim. (Cl. 261—75.)

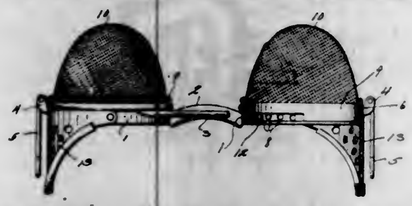


In a carburetor for internal combustion engines, a diffuser formed by a Venturi tube, a cross head of exterior truncated form surmounting this tube, and having a central, widened opening in the top, said head also having its wall thickened and overhanging on the inner side and provided with annular passages, one above another, said bent passages extending upwardly and outwardly and narrowing from the interior toward the conical surface of the said head.

1,781,067. GOGGLES. JOSEPH MICHELI, Berwind, Colo. Filed Jan. 19, 1929. Serial No. 333,632. 2 Claims. (Cl. 2—14.)

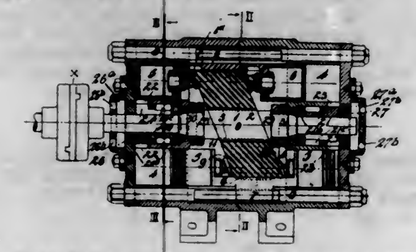
1. Goggles comprising a pair of rims each of substantial width and each having an air vent aperture formed there-

through, means for maintaining said rims in position before the eyes of a wearer, said rims each having a groove about the inner face and adjacent the forward edge thereof and a notch opening from the forward edge into said grove, a frame insertable into each rim from the front, a pin carried by each frame adapted to pass through said



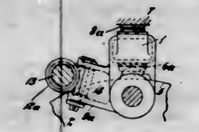
notch into the holding rim groove, and a substantially parabolic foraminous screen carried by and extending forwardly of each frame, each of said screen carrying frames having an opening formed therethrough conforming to the aperture in the adjacent rim and aligning therewith when the frame is rotated to a predetermined position, to permit the ventilating of the interior of the screen.

1,781,068. FLUID MOTOR AND PUMP. ANTHONY GEORGE MALDON MICHELL, Melbourne, Victoria, Australia, assignor, by mesne assignments, to Michell-Crankless Engines Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 20, 1922, Serial No. 545,193, and in Australia Apr. 29, 1921. 4 Claims. (Cl. 121—119.)



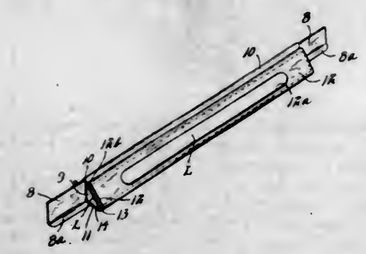
1. In a device of the character described, a shaft, a swash plate thereon, a plurality of angularly spaced cylinders parallel to said shaft and having suitable ports, pistons in the cylinders coacting with opposite sides of the shaft through said swash plate, and valves on the shaft controlling the distribution of fluid to and from the cylinders through the ports, said ports being dimensioned to obtain fluid pressure on said shaft through said valves substantially compensating the tilting moment exerted by the pistons on the swash plate and therethrough on the shaft and valves.

1,781,069. MECHANISM FOR THE INTERCONVERSION OF RECIPROCATING AND ROTARY MOTION. ANTHONY GEORGE MALDON MICHELL, Melbourne, Victoria, Australia, and JOSEPH PEARSON POSTLETHWAITE and THOMAS SMITH, London, England, assignors, by mesne assignments, to Michell-Crankless Engines Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 17, 1927, Serial No. 176,146, and in Great Britain Mar. 18, 1926. 14 Claims. (Cl. 74—14.)



1. In mechanism for the interconversion of reciprocating and rotary motion, an oblique swash plate, a reciprocating member having engagement with said swash plate, bearing surfaces on the reciprocating member, a fixed guide surface co-acting with one of said bearing surfaces and the other of said surfaces engaging the periphery of the swash plate, said surfaces resisting inward and outward radial forces imposed on the reciprocating member by the swash plate, a link pivotally connected to the reciprocating member, and a fixed guide member with which said link slidably engages said guide member resisting tangential forces imposed upon the reciprocating member by the swash plate.

1,781,070. INDEX DEVICE. HARRY VERLIN MITCHELL, Danville, Ill., assignor of one-half to Robert C. Dennett, Freeport, N. Y. Filed July 26, 1929. Serial No. 381,350. 3 Claims. (Cl. 40—23.)



1. An index device constructed from a single piece of sheet material comprising a clip element of substantially inverted U-shape cross section and adapted to engage the edge of a wall, a connecting element extending outwardly from said clip element and a label holding element extending upwardly from said connecting portion and inclined relatively thereto, the upper edge of said label holding member being disposed in juxtaposition to the upper edge if said clip element, and comprising inner and outer plates spaced apart to receive a label.

1,781,071. TYPEWRITER. EDWARD H. MOYLE, Los Angeles, Calif. Filed Mar. 30, 1925. Serial No. 19,433. 1 Claim. (Cl. 197—103.)

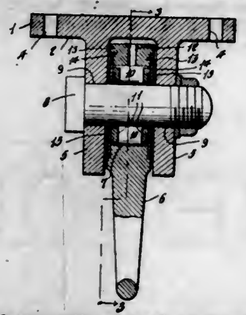


A resilient keyhead rigidly formed by casting to a slotted fastening means for fastening to a key bar of a key operating machine, means in the resilient keyhead at its operating end for inserting a rubber plate having character marks, said plate arranged so that the air can be impounded underneath.

1,781,072. SUSPENDING HOOK. CLYDE NEIDHAMMER, Lemoyne, Pa., assignor of one-half to David A. Grissinger, Lemoyne, Pa. Filed Aug. 2, 1928. Serial No. 297,027. 1 Claim. (Cl. 248—64.)

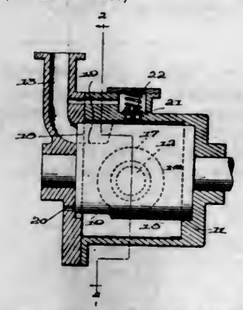
A suspending device, comprising an attaching plate, spaced ears on said plate, a pivot pin engaging said ears, a hook member having an opening to receive said pin, roller bearing members engaging the pin and the wall of the opening, said hook member having recesses on the opposite sides thereof surrounding said opening, washer plates engaging in said recesses and having openings to receive the pin, and the wall of said opening having a lubricating opening therein communicating with the first

mentioned opening normally protected by the plate, and washers in contact with the first mentioned washers and



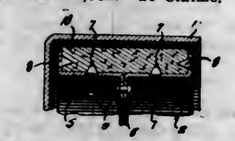
said ears, the last mentioned washers functioning dually to maintain the first mentioned washers seated and to absorb leaking lubricant.

1,781,073. ROTARY COMPRESSOR. HOLGER NIELSEN, Beaver Falls, Pa., assignor to Keystone Refrigerating Corporation, Beaver Falls, Pa., a Corporation of Pennsylvania. Filed June 16, 1928. Serial No. 286,035. 15 Claims. (Cl. 230—153.)



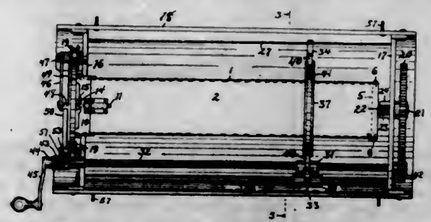
3. A rotary compressor having a chamber provided with inlet and outlet passages and ports spaced angularly with respect to each other, the outlet port being disposed in an end wall of said chamber, a rotor eccentrically mounted within said chamber to close said outlet port and contacting with its side wall between said inlet and outlet ports to prevent passage of fluid therebetween, said rotor having blade means adapted to contact with the side wall of the chamber throughout the compression period, said rotor closing said outlet port while the pressure within the chamber is being built up to substantially the pressure in the discharge passage, to prevent back flow of fluid into said chamber from the discharge passage, said rotor being provided with a groove positioned to uncover said outlet port when the pressure within the chamber reaches substantially the pressure in the discharge passage, for discharging the compressed fluid.

1,781,074. BRAKE MEMBER. RAYMOND J. NORTON, Washington, D. C., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 7, 1928. Serial No. 324,362. 10 Claims. (Cl. 188—259.)



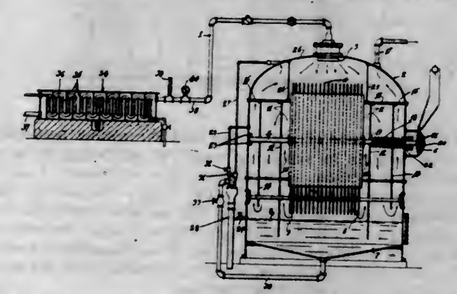
1. A friction facing comprising zones of fibrous material some of which are impregnated with an infusible and others with a fusible synthetic resin.

1,781,075. BUTTER-CUTTING MACHINE. HENRY J. OUTCELT, Warsaw, Ind. Filed Aug. 19, 1929. Serial No. 386,746. 5 Claims. (Cl. 31—20.)



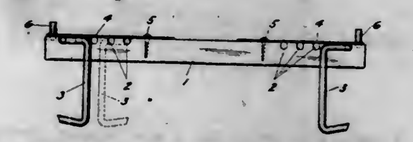
1. In a butter cutting machine, a support having parallel guides; a butter bar container one end of which is open, rotatably and removably mounted in said support, and having opposite longitudinal slots; a bracket slidably mounted on said guides; a feed-screw with which said bracket is detachably engaged and actuated thereby; a plunger longitudinally movable in said container; a ring encompassing the container, connected through the slots therein with said plunger, and detachably engaged by said bracket; means within the open end of said container to cause a butter bar when extruded through its open end to become sliced longitudinally; a stationary wire disposed adjacent the open end of the container to cause the extruded parts of said bar to be sliced transversely to form pats; a stripper for deflecting said pats as formed; and driving means relating the stripper, the feed-screw and the container, to effect operation thereof concurrently.

1,781,076. METHOD AND MEANS OF DEHYDRATING OIL. WILLIAM L. PALMER, Long Beach, Calif., assignor, by mesne assignments, to National Dehydrator Corporation, a Corporation of Nevada. Filed Apr. 4, 1927. Serial No. 180,713. 13 Claims. (Cl. 196—3.)



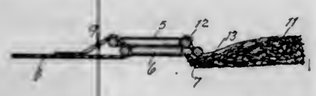
6. In a method of dehydrating hydrocarbon oils, the step imparting a relatively rapid short oscillatory motion to a flowing stream of oil-containing water.

1,781,077. BATTERY LIFTER. JOHN PETERSEN, Durant, Iowa. Filed Nov. 29, 1929. Serial No. 410,339. 5 Claims. (Cl. 294—26.)



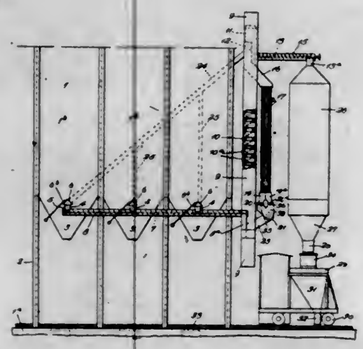
1. A battery lifter comprising a bar having notches in one face thereof, resilient means secured to said bar and lying along said face over said notches, U-shaped supporting members having their bent portions supported in selected ones of said notches and held against rotation in said notches by the resilient means pressing thereagainst.

1,781,078. FASTENING DEVICE. MARGUERITE H. PLACE, San Francisco, Calif. Filed May 27, 1929. Serial No. 366,503. 1 Claim. (Cl. 24—197.)



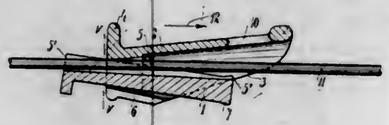
In a device of the character described, a ring, a second ring superimposed on said first mentioned ring, means for maintaining said rings in superimposed position but slidable upon the other, a button formed on said first mentioned ring, said button extending away from said superimposed ring whereby material encircling said superimposed ring and underlying said first mentioned ring will be engaged by said button.

1,781,079. METHOD FOR HEATING COAL OR THE LIKE. FRANZ PUENING, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Sept. 3, 1927. Serial No. 217,488. 10 Claims. (Cl. 34—24.)



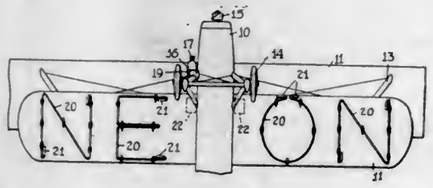
1. The process of preheating coal for coking purposes, which consists in supplying coal and subjecting it to a preheating medium at a temperature in excess of 212° and ranging to substantially 600° Fahr., discharging the preheated coal, and utilizing the sensible heat of the preheated coal within said temperature range for evaporating the moisture from wet coal being supplied for subjection to said preheating medium in advance of its subjection to said preheating medium.

1,781,080. CABLE GRIP. JOSEF RING, Polerady, Czechoslovakia. Filed Mar. 27, 1930, Serial No. 439,422, and in Czechoslovakia Feb. 26, 1930. 6 Claims. (Cl. 24—136.)



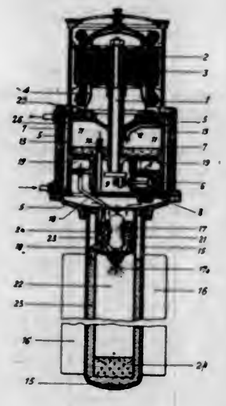
2. A cable grip comprising a core member having a longitudinal tapered V-groove, and a sleeve member arranged rotatably and slidably upon said core member and formed with a longitudinal slit adapted to admit the cable into the groove, the two members being adapted, on longitudinal relative displacement, to clamp the cable in the groove.

1,781,081. ELECTRICAL AERIAL ADVERTISING SIGN. ROLAND ROHLFS, Forest Hills, N. Y., assignor, by direct and mesne assignments, to Aerial Advertising, Inc., New York, N. Y., a Corporation of New Jersey. Filed Aug. 8, 1925. Serial No. 48,933. 3 Claims. (Cl. 40—127.)



2. The combination, with a power driven aeroplane, of an electrical aerial advertising sign or the like comprising one or more luminous tube lights, each consisting of a single length of translucent tubing shaped to conform either in whole or in part to the outline of the letter or other character desired to be shown, vibration shock absorbing means for fastening said tube lights on the under side of the wings of said aeroplane, and an electrical generator mounted on said aeroplane and electrically connected with said light or lights for generating sufficient current to operate it or them.

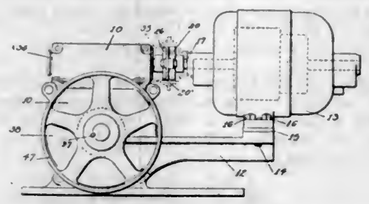
1,781,082. ELECTRICALLY-ACTUATED REFRIGERATING MACHINE. EDUARD RÜEGGER, Zurich, Switzerland, assignor to the Firm Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie., Zurich, Switzerland. Filed May 19, 1927, Serial No. 192,648, and in Switzerland May 28, 1926. 2 Claims. (Cl. 172—36.)



1. An electric motor having a rotor and a stator, a metal capsule, having a portion of reduced thickness in the air gap between the rotor and stator, said metal being a steel alloy containing 9% to 22% chromium, 33% to 5% nickel and less than 1% carbon and annealed after manufacture, of low magnetic properties, high specific strength, ductile, resistant to molecular disintegration and highly resistant to corrosion and acid attack.

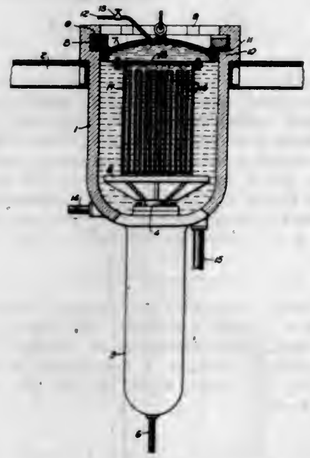
1,781,083. POWR-DRIVING UNIT. HENRY J. SCHMICK, Louisville, Ky. Filed Oct. 5, 1929. Serial No. 397,652 2 Claims. (Cl. 74—36.)

1. A portable reduction unit for use in combination with a source of power comprising a two-part housing having bearings for a driving shaft, a bracket integrally secured to each said housing part for supporting the source of power with its axis in alinement with the axis of said driving shaft, a driven shaft mounted in bearings in said housing parts and supporting a power take off



device, mating low loss reduction gearing elements secured on said driving and driven shafts in cooperative relationship, and a flexible coupling on said driving shaft adapted to make an axially loose and angularly restrained nonrigid connection with said source of power.

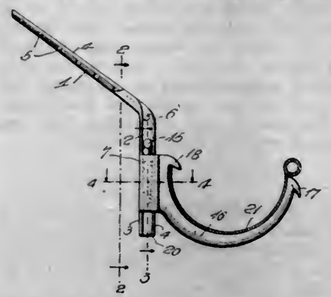
1,781,084. PROCESS FOR MAKING LAMINATED GLASS. JAMES H. SHERTS, Brackenridge, and ROBERT E. HAMILL, Tarentum, Pa., assignors to Duplate Corporation, a Corporation of Delaware. Filed Oct. 18, 1929. Serial No. 400,682. 8 Claims. (Cl. 49—81.5.)



3. A process of treating a laminated plate made up of alternating sheets of glass and cellulose plastic having their opposing surfaces secured rigidly and solidly together, which consists in submerging the plate in a bath of pyroxylin plastic solvent in direct contact with said plate throughout, raising the temperature of the bath to a point at which the plastic is softened and applying pressure to the bath.

1,781,085. GUTTER SUPPORT. DUDLEY N. SKINNER, Linwood, Pa. Filed June 22, 1929. Serial No. 372,967. 1 Claim. (Cl. 108—29.)

A gutter support comprising a bracket having a portion thereof arranged to be secured to the overhanging edge of a roof and a depending portion thereof extending in a substantially vertical plane, said depending portion having rack teeth formed on one face thereof and a groove disposed in the opposite face thereof, a semi-circular member providing a gutter support, said semi-circular member terminating in a pair of parallel extending walls at one end thereof providing a vertically disposed gap therebetween, the interior surface of one of said walls having rack teeth formed thereon and the interior surface of the other of said walls having a longitudinal groove formed therein, and a tapered pin member insertable between the grooves on the surface of said depending member and on the interior face of one of the walls carried by said



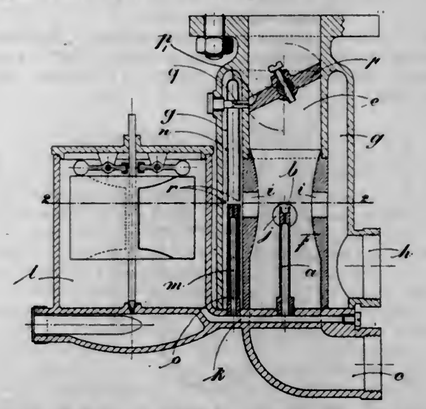
semi-circular member for selectively securing said semi-circular member in position with respect to said bracket when said member is moved laterally toward said depending portion with the walls of said member embracing opposite sides of the depending portion of said bracket.

1,781,086. METHOD OF CONSTRUCTING FURNITURE. FRANK L. SMITH, Columbiana, Ohio. Filed Mar. 29, 1928. Serial No. 265,711. 8 Claims. (Cl. 155—181.)



3. In the method of upholstering furniture the steps which consist in stitching an edging strip along a longitudinal edge thereof to a seat cover in spaced relation from the edge of the seat cover, overturning the edging with stitching acting as a hinge into overlying relation upon the margin of the seat, and transversely stitching the edging to the cover.

1,781,087. CARBURETOR. JOSEPH STAPELLE, Brussels, Belgium, assignor to Paul Meunier, Fleurus, Belgium. Filed June 20, 1924, Serial No. 721,254, and in Belgium June 26, 1923. 2 Claims. (Cl. 261—41.)



1. A carburetor comprising a body having an outer wall and an inner wall spaced from the outer wall to

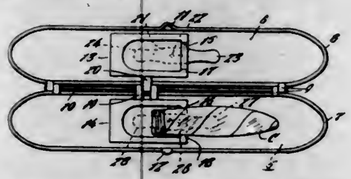
form an auxiliary air chamber therebetween and also having a main air inlet opening communicating with the lower end of the mixing chamber formed by said inner wall, and an air inlet opening communicating with the said auxiliary air chamber, a fuel supply nozzle arranged in said mixing chamber, the wall of said mixing chamber having air inlet openings leading from the auxiliary air chamber, an idling fuel supply nozzle arranged in said auxiliary mixing chamber, a tube in said auxiliary mixing chamber communicating at its upper end with the mixing chamber and having its lower end arranged around and spaced from said idling fuel supply nozzle and provided with air intake openings.

1,781,088. RADIODETECTOR. CHARLES K. STROBEL, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Sept. 27, 1928. Serial No. 308,689. 5 Claims. (Cl. 250—31.)



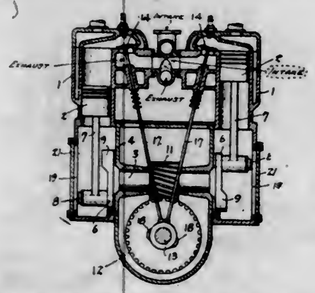
1. A radio detector comprising a bar of cuprous oxide having copper films formed on two separate portions of the bar having different areas.

1,781,089. CIGAR CASE. TETSUO TOMONAGA, Deal, N. J. Filed Sept. 19, 1929. Serial No. 393,733. 5 Claims. (Cl. 206—41.)



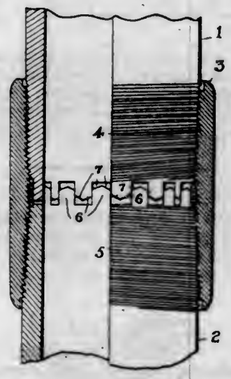
1. In a device of the class described, the combination of an outer casing and an inner receptacle, said outer casing comprising a cup-shaped bottom section and a cup-shaped top section, said inner receptacle comprising a pair of complemental semi-cylindrical sections, one section of said inner receptacle adapted for position in the bottom section of the outer casing, and the other section of said inner receptacle adapted for position in the top section of said outer casing, hinge means for securing the sections of said outer casing, said hinge means including means for slidably mounting the sections of the inner receptacle in their respective sections of said outer casing.

1,781,090. INTERNAL-COMBUSTION ENGINE. ELMER E. WICKERSHAM, San Leandro, Calif. Filed Aug. 8, 1928. Serial No. 298,323. 5 Claims. (Cl. 123—52.)



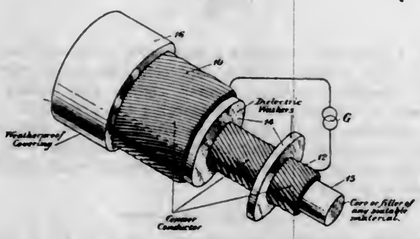
1. An engine comprising a pair of parallel cylinders having valve chambers pointing toward one another and intake and exhaust manifolds passing therebetween, pistons reciprocable in the cylinders, a crank shaft in the plane of the cylinders, connecting rods for the pistons engaged with opposite ends of the crank shaft, a drive shaft arranged transversely to the crank shaft, a driving connection between the two shafts, valves in the chambers and a direct driving connection between the drive shaft and the valves.

1,781,091. PIPE JOINT. JOHN M. WILSON, Pittsburgh, Pa., assignor to The National Supply Company, Toledo, Ohio, a Corporation of Ohio. Filed July 19, 1924, Serial No. 726,952. Renewed Jan. 24, 1928. 4 Claims. (Cl. 58—146.)



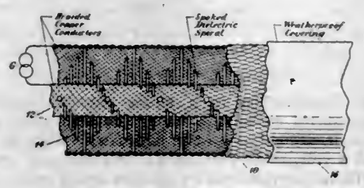
1. In a rotary stem for drilling wells, two axially alined pipes having externally tapered and oppositely threaded ends provided with terminal interlocking teeth, whose interlocking sides are substantially parallel with the pipes, and a coupling screwed on the ends of the pipes and having its ends internally oppositely tapered and threaded to correspond to the tapers and threads on the ends of the pipes, the free ends of the teeth being beveled.

1,781,092. CONCENTRIC CONDUCTING SYSTEM. HERMAN A. AFFEL, Ridgewood, and ESTILL I. GREEN, East Orange, N. J., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed May 23, 1929. Serial No. 365,522. 4 Claims. (Cl. 173—13.)



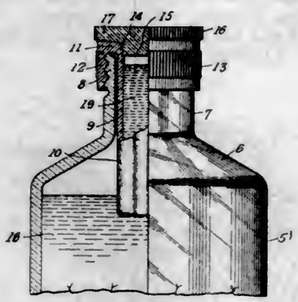
1. In a conducting system for the communication of intelligence, two conductors connected one as a return for the other, each conductor being in the form of a shell of conductive material and the two conductors being arranged concentrically one inside the other, means to prevent moisture from entering the interior of the outer conductor, the inner conductor being formed by winding a plurality of conducting filamentary structures about a core, and insulating means for separating the conductors electrically and for maintaining them in concentric relation, said insulating means being so formed that the dielectric between adjacent surfaces of the conductors will be principally gaseous, and said outer conductor being formed of a plurality of conducting filamentary structures wound about said insulating means.

1,781,093. CONCENTRIC CONDUCTOR SYSTEM. HERMAN A. AFFEL, Ridgewood, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed May 23, 1929. Serial No. 365,523. 6 Claims. (Cl. 173—13.)



1. In a conductive system for the communication of intelligence, two concentric conductors of cylindrical form, and insulating means for separating the conductors electrically and maintaining them in concentric relation, said means comprising spoke-like members of dielectric material passing transversely through the inner conductor so that successive spoke-like members are arranged spirally along the conductor.

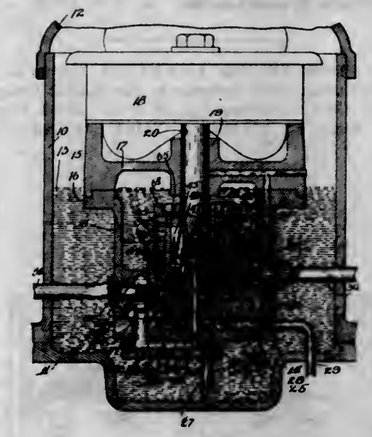
1,781,094. BOTTLE STRUCTURE. ARTHUR S. ALLEN, New York, and RUDOLPH RUZICKA, Dobbs Ferry, N. Y., assignors to The Packer Manufacturing Co., Inc., New York, N. Y., a Corporation of New York. Filed Dec. 12, 1928. Serial No. 325,502. 3 Claims. (Cl. 215—6.)



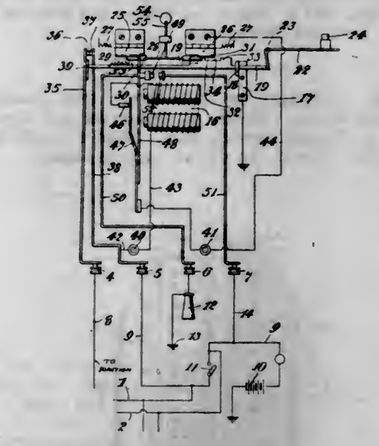
2. A container having a tubular neck, a tubular chamber suspended therein, a flanged annulus integral with said chamber having threaded connections with the exterior of said neck to make liquid tight contact with its rim, said chamber having a concavely bevelled upper surface and being internally threaded, a plug cap engageable in the threads of said chamber and a flange fitted to engage the bevelled upper surface thereof.

1,781,095. ROTARY COMPRESSOR. HOWARD E. BLOOD, Detroit, Mich., assignor to Norge Corporation, a Corporation of Michigan. Filed Nov. 26, 1928. Serial No. 321,778. 8 Claims. (Cl. 230—140.)

6. A compressor comprising a shaft, an eccentric cylindrical rotor formed thereon, an annular cylinder enclosing said rotor and having an internal diameter greater than the diameter of the rotor, said cylinder having an inturned flange closing one end of the space between the rotor and the cylinder, an outturned flange on the other end of said cylinder, a cover making sealing contact with the rotor and said out-turned flange to complete the enclosure of the space between the rotor and the cylinder, a partition blade carried by said rotor and making contact with the cylinder, and a body having a journal for said shaft, there being a recess in said body adapted to maintain said cylinder concentric to the shaft.



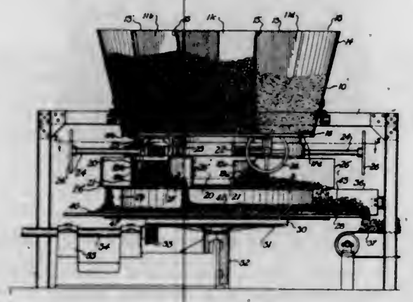
1,781,096. ALARM APPARATUS. JOSEPH ARTHUR BOLDUC, Montreal, Quebec, Canada, assignor to Automobile "Lock-Alarm" Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 11, 1926. Serial No. 80,403. 4 Claims. (Cl. 177—314.)



1. An alarm device for motor vehicles comprising a circuit including a source of current, a normally open manually operable switch, a normally closed switch carrying an armature, a magnet adjacent the last-named switch to be energized upon closing the circuit to attract said armature and open the latter switch, a second normally open switch in the circuit connected with the first-named switch and including a part supported for rectilinear sliding movement, a second circuit including an alarm and the source of current and a circuit closer engageable by the armature to be moved to closed position upon energization of the magnet, an ignition circuit including the source of current, the first-named switch, and a second normally closed switch having a member to be engaged by said slidable part and actuated to open position by movement of said slidable part in the first circuit to its closed position, manually operable means co-acting with said slid-

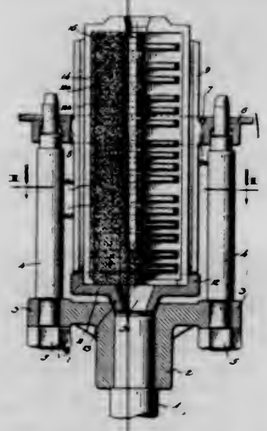
able part to move the same to circuit closing position, locking parts to hold said slidable part, and means to withdraw the locking parts to release said slidable part for movement back to open position.

1,781,097. DISK FEEDER AND MIXER. LOUIS C. BONNOT, Louisville, Ohio, assignor to The Bonnot Company, Canton, Ohio, a Corporation of Ohio. Filed July 22, 1929. Serial No. 379,963. 5 Claims. (Cl. 83—73.)



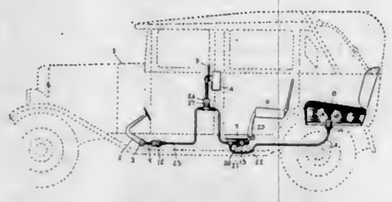
1. A disk feeder and mixer including a plurality of bins each adapted for containing a different material, a feeding disk mounted for rotation a substantial distance below the bins, a mixing disk mounted for rotation below the feeding disk, a spout extending between each bin and the feeding disk for discharging material from the bin onto the feeding disk, a scraper associated with each spout for scraping material discharged therefrom onto the mixing disk, and a scraper for mixing and scraping the material from the mixing disk.

1,781,098. METHOD OF AND MOLD FOR CASTING PISTON RINGS. ERNEST N. BRODERICK and THEOPHILES D. LUCIER, Detroit, Mich. Filed Dec. 20, 1926. Serial No. 155,845. 15 Claims. (Cl. 22—200.)



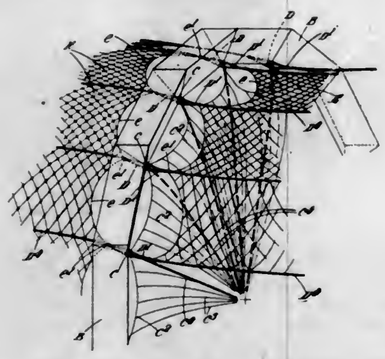
1. A mold for casting piston rings comprising a core having an annular channel formed therein and a pouring orifice formed within said channel, said channel having marginal extensions, and gates connecting said orifice exclusively with said marginal extensions.

1,781,099. MOTOR-VEHICLE-CONTROL APPARATUS. JAMES L. BROWNELL, Kalamazoo, Mich., assignor to Checker Cab Manufacturing Corporation, Kalamazoo, Mich. Filed Oct. 5, 1929. Serial No. 397,722. 7 Claims. (Cl. 180—82.)



1. The combination in a motor vehicle including a movable control element, a meter provided with a movable control element, a seat provided with a spring cushion, and a collapsible seat, of an actuated unit comprising a cylinder provided with a plunger and a return spring therefor, a locking pin carried by said plunger coacting with said control element for locking it in operative position, actuating units comprising cylinders provided with plungers, the plunger of one cylinder being operatively associated with said spring seat cushion and the other with said collapsible seat, a hydraulic connection for said actuating unit cylinders to said actuated unit cylinder, a control unit cylinder interposed in said connection between said actuating unit and actuated unit cylinders and provided with a plunger, and operating connections for said control unit cylinder plunger and said signal element of said meter.

1,781,100. RIGID AIRSHIP. CHARLES DENNISTON BURNEY, BARNES NEVILLE WALLIS, NEVIL SHUTE NORWAY, and JOHN EDWIN TEMPLE, Westminster, London, England, assignors to Airship Guarantee Company, Limited, London, England, a British Company. Filed Aug. 19, 1927, Serial No. 214,036, and in Great Britain Sept. 17, 1926. 2 Claims. (Cl. 244—3.)

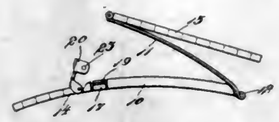


1. A rigid airship comprising in combination longitudinal girders and transverse frame members, bulkhead wiring connected to the said members, circumferential mesh wiring and strops connecting said circumferential mesh wiring to said members at each point of attachment of said bulkhead wiring.

1,781,101. EXTENSION DEVICE. EDWIN G. CARLSON, Riverside, R. I., assignor to Speidel Chain Co., Providence, R. I., a Firm composed of Frederic Speidel and Eugen Speidel. Filed Jan. 21, 1930. Serial No. 422,320. 7 Claims. (Cl. 24—71.)

1. In a bracelet extension device, end members hingedly connected together to permit nesting, strap securing

means at the free ends of said end members, one end member having a resilient latch, and a cover less than one-half the length of said members pivotally mounted on



said same end member extending over the free end of the other member when nested and releasably engageable with said latch to secure the members in nested relation.

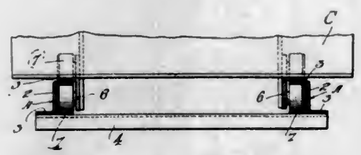
1,781,102. METHOD OF TREATING COAL. ERNEST VICTOR COLLINS, Jr., Brooklyn, N. Y., assignor to Delaware, Lackawanna & Western Coal Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 14, 1930. Serial No. 428,494. 1 Claim. (Cl. 44—6.)

The method of restoring the luster and improving the appearance of discolored coal which comprises treating it with a solution of ammonium persulphate.

1,781,103. METHOD OF TREATING COAL. ERNEST VICTOR COLLINS, Jr., Brooklyn, N. Y., assignor to Delaware, Lackawanna & Western Coal Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 14, 1930. Serial No. 428,495. 1 Claim. (Cl. 44—6.)

The method of restoring the luster and improving the appearance of discolored coal which comprises treating it with a solution of hydrochloric acid and titanium trichloride.

1,781,104. PORTABLE ELEVATOR. RUDOLPH DE LAMAR, New York, N. Y., assignor to Henry S. Germond, Jr., Bayonne, N. J. Filed Apr. 10, 1928. Serial No. 268,905. 3 Claims. (Cl. 187—9.)

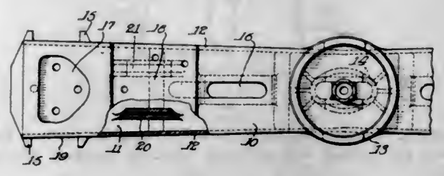


1. An elevating apparatus comprising a vertical frame including a pair of spaced bars each having a web parallel to the web of the other and a pair of flanges extending in opposite directions at substantially right angles to said webs, a load-carrying platform having a set of rollers mounted to run on one flange of each bar, the rollers of each set being disposed at opposite sides of the respective flange, and means for raising and lowering said platform.

1,781,105. PREMIXED ASPHALT COMPOSITION AND PROCESS FOR PRODUCING THE SAME. JAMES SHELBY DOWNARD, Dallas, Tex. Filed Mar. 6, 1926. Serial No. 92,944. 8 Claims. (Cl. 106—31.)

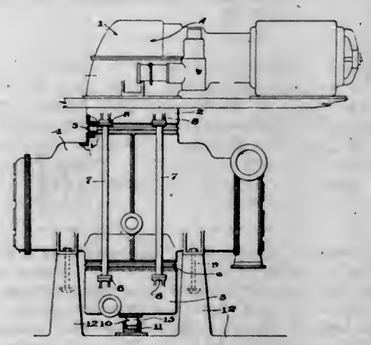
2. The process of manufacturing asphalt paving mixtures which comprises making a granulated mixture of asphalt and sand, cooling the same, treating the cooled mixture with a solution of calcium chloride in order to prevent adhesion of the granulated mixture during storage or transportation, and then changing the mixture to an adhesive mixture by reacting ammonium oxalate with the mixture before the mixture is formed into a roadbed.

1,781,106. TRUCK BOLSTER. HARRY C. DREINESS and GEORGE S. CHILES, St. Louis, Mo., assignors to Scullin Steel Company, St. Louis, Mo., a Corporation of Delaware. Filed Aug. 31, 1929. Serial No. 389,732. 6 Claims. (Cl. 105—230.)



2. A bolster having a top surface and side walls, a portion for receiving side bearing stresses on said top surface, reinforcing members for said portion extending diagonally downward from said top surface towards the side walls, said reinforcing members being curved in horizontal section.

1,781,107. CONDENSER. JOHN F. GRACE, Arlington, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Mar. 8, 1928. Serial No. 260,016. 9 Claims. (Cl. 60—95.)

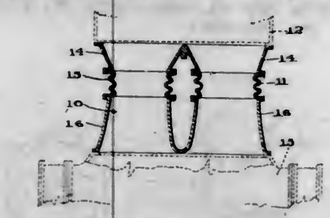


6. The combination with a turbine, of a condenser, an exhaust inlet member, an expansion joint connecting the inlet member to the condenser, a condensate reservoir, an expansion joint between the condenser and reservoir, the cross sectional areas of said inlet member, reservoir and expansion joints being substantially equal whereby downward atmospheric pressure on the exhaust casing of the turbine will be balanced by upward atmospheric pressure on the bottom of the condensate reservoir, rigid columns connecting the reservoir and inlet member, and a steady-bearing associated with said condensate reservoir to prevent lateral movement and permit vertical movement of the reservoir.

1,781,108. EXHAUST CONNECTION FOR CONDENSERS. JOHN F. GRACE, Arlington, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Dec. 12, 1928. Serial No. 325,624. 8 Claims. (Cl. 257—24.)

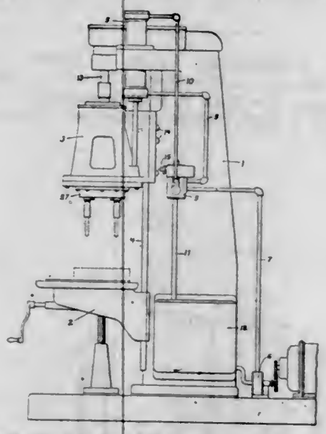
1. An exhaust steam inlet connection for surface condensers including a shell having its walls tapering in-

wardly for a predetermined distance from the inlet of the connection and tapering outwardly for a predetermined distance from the innermost point of the inward



tapering, and an expansion joint forming a junction between the inward and outward tapering portions of the walls.

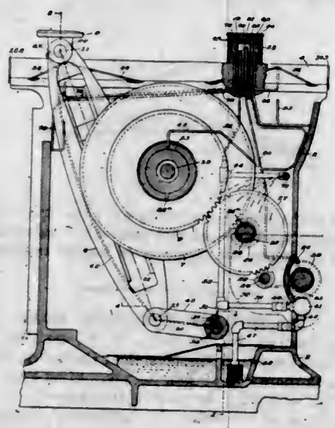
1,781,109. SLIP SPINDLE DEVICE. ANTON A. HERZBERG, Waukesha, and HENRY O. SCHULTZ, Milwaukee, Wis., assignors to The National Automatic Tool Company, Richmond, Ind., a Corporation of Indiana. Filed Oct. 8, 1929. Serial No. 398,134. 3 Claims. (Cl. 77—24.)



2. A multiple spindle drill head combining a frame; a plurality of spindles mounted therein; means for supporting said spindles comprising a plate secured to the lower portion of said frame and having openings therein; spindle bearing sleeves adjustable in said openings and rotatably supporting said spindles and holding them against axial movements, said bearing sleeves being removable whereby each spindle and its sleeve may be outwardly withdrawn through its respective opening; and a single screw device for each spindle having one portion engaging a portion of said sleeve and another portion threaded into said plate to adjust said sleeve, to lock said sleeve against rotation in said plate and to transmit to said plate the thrust incident to a drilling operation.

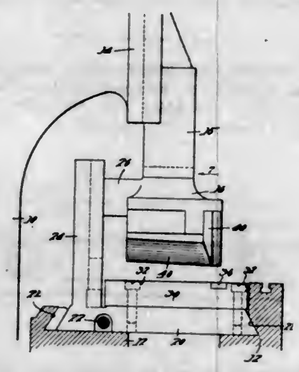
1,781,110. LUBRICATION SYSTEM FOR SHAPING MACHINES. HUGO W. JACOBSON, Arlington, N. J., assignor to Gould & Eberhardt, Newark, N. J., a Corporation of New Jersey. Filed Jan. 29, 1925. Serial No. 5,542. 18 Claims. (Cl. 184—6.)

1. In a shaping machine, in combination, a frame providing spaced guideways; a ram slidingly fitted to said guideways; a crank mechanism; driving means for said crank mechanism; an oscillating lever actuated by said crank mechanism, said lever being operatively connected with said ram to reciprocate the latter; a link pivotally connected with one end of said lever; a lubricant reservoir; a pump and conduits for conveying lubricant from said reservoir to said guideways and to said driving means; and a second lubricant conduit connected with said pump and comprising sections carried by and bodily



movable with said link and lever for delivering lubricant under pressure from said pump to the pivotal connections of said lever and link.

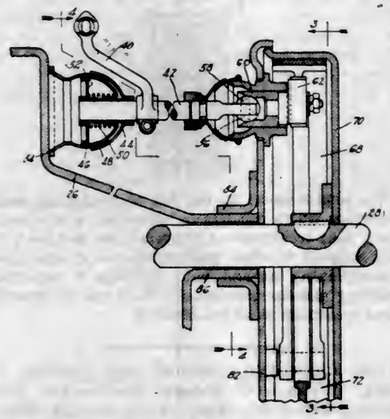
1,781,111. CORNER-CUTTING MACHINE. GEORGE W. KLAUCKE, Worcester, Mass., assignor to Hobbs Manufacturing Company, Worcester, Mass., a Corporation of Massachusetts. Filed July 13, 1929. Serial No. 378,017. 1 Claim. (Cl. 164—25.)



A corner cutting machine comprising a frame having a bed, and an upwardly projecting post, a base support slidably adjustable on said bed and having an upwardly projecting portion, an upper die holder having a lateral member slidable in a guideway in said upwardly projecting support portion, a die holder head slidable in a guideway in said frame post and detachably secured to said die holder, die bars for said holder, a lower die comprising a rectangular hollow base and die bars secured thereto, and means to detachably secure said rectangular hollow base to said sliding support.

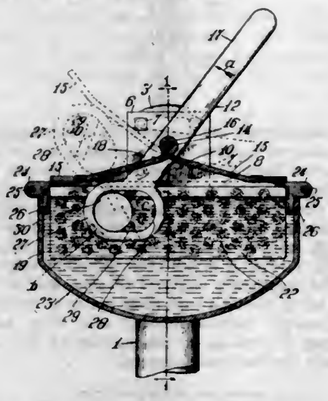
1,781,112. BRAKING SYSTEM. LUDGER ELIZÉ LA BRIE, South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 12, 1925. Serial No. 49,736. 2 Claims. (Cl. 188—76.)

1. A vehicle having, in combination, a transmission and a power shaft extending rearwardly therefrom and driving the vehicle wheels through the differential, a drum rotating with the shaft, a pair of shoes anchored at one end of one shoe within the drum and so connected that the unanchored shoe moves with the drum to force the anchored shoe against the drum to retard movement of



the shaft in the direction it turns when the vehicle is moving forward, a third shoe anchored at the opposite end within the drum to retard movement of the shaft in the opposite direction, and means for forcing the third shoe and the unanchored shoe apart against the drum.

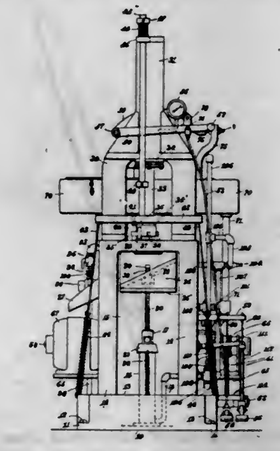
1,781,113. GOLF-BALL WASHER. EDWARD M. LAING, Highland Park, Ill. Filed July 13, 1928. Serial No. 292,491. 6 Claims. (Cl. 15—21.)



1. A golf ball cleaner comprising a receptacle for holding liquid, a pair of opposed brushes mounted in the receptacle, a member mounted for reciprocation between the brushes, the member being of less thickness than the diameter of a golf ball and formed with an opening of sufficient size to permit the ball to move bodily therein, and means carried by the member and extending over the opening at one side thereof for engaging the ball and causing it to rotate about an axis inclined at an angle to the path of bodily movement of the ball as the ball moves from one side of the opening to the other.

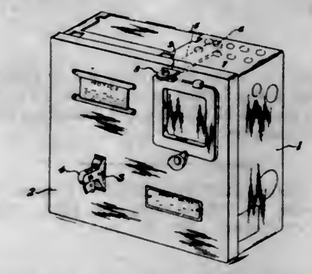
1,781,114. HYDRAULIC BROACHING MACHINE. FRANCIS J. LAPOINTE, Ann Arbor, Mich. Filed Oct. 7, 1927. Serial No. 224,632. 20 Claims. (Cl. 90—33.)

1. In a broaching machine, two alined hydraulic cylinders one above the other; a ram reciprocable in the upper cylinder; a plunger reciprocable in the lower cylinder provided with a broach receiving socket in its upper end; a work support provided with a vertical opening through which the broach extends; a treadle actuated mechanism for admitting oil to the lower cylinder be-



neath said plunger; means on the lower end of the ram for automatically seizing the upper end of the broach when said broach has been raised by said plunger; and treadle actuated mechanism for admitting oil to the upper cylinder to raise the ram when said broach has been gripped by said seizing means.

1,781,115. LATCH FOR SERVICE BOXES. JOSEPH C. LEWIS, Minerva, Ohio, assignor to Charles W. Keplinger, Canton, Ohio, receiver of The American Electric Switch Corporation, Minerva, Ohio, a Corporation of Delaware. Original application filed July 18, 1925, Serial No. 44,609. Divided and this application filed May 2, 1927. Serial No. 188,170. 1 Claim. (Cl. 292—202.)

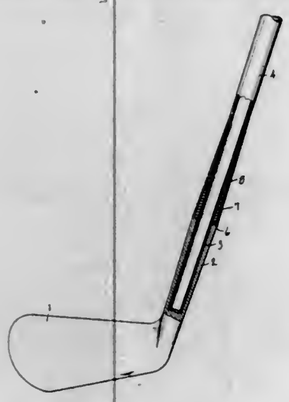


A fastener for a container closure member, comprising a flat strip latch bar adapted to be pivoted at one end to a side wall of the container and extending within the container parallel to the side wall, the other end of the latch bar being adapted to extend through a slot in a closure member of the container, and the latch bar being further adapted to be swung about its pivot parallel with said side wall to be located entirely inside of the container.

1,781,116. SHAFT FOR GOLF CLUBS AND THE LIKE. RICHARD A. LINK and CONRAD F. HARDERS, Detroit, Mich., assignors to L. A. Young Company, Detroit, Mich. Filed May 1, 1929. Serial No. 359,500. 3 Claims. (Cl. 273—80.)

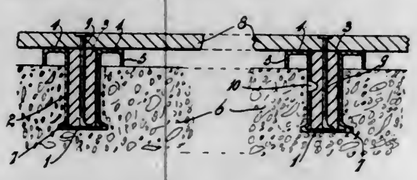
1. In a golf club, the combination of a metal head provided with a hosel having a socket therein the end of

the hosel lying in a plane at right angles to its axis, a tubular steel shaft fitting and fixedly secured within said socket metal to metal, and an upwardly tapered metal sleeve immovably fixed upon said shaft metal to metal with its lower end in spaced relation to the lower end of



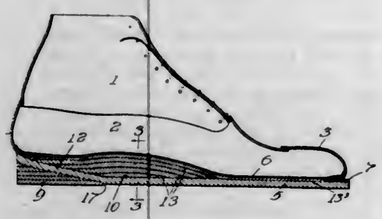
said shaft, the lower end of said sleeve lying in a plane at right angles to its axis and being in supporting abutting engagement with the end of the hosel, the abutting surfaces of the hosel and sleeve being of substantial extent radially.

1,781,117. FLOOR SLEEPER. JAMES E. MACKIE and AARON J. SMITH, Long Beach, Calif. Filed Mar. 3, 1930. Serial No. 432,732. 6 Claims. (Cl. 72—101.)



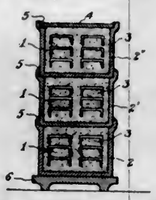
1. A sleeper or strip comprising an elongated metal case, said case being formed in the nature of a trough, a wooden strip secured in the case and depending ribs at the upper end of said case.

1,781,118. SHOE CONSTRUCTION. SAMUEL L. MARCUS, Chicago, Ill. Filed July 19, 1928. Serial No. 293,946. 12 Claims. (Cl. 36—76.)



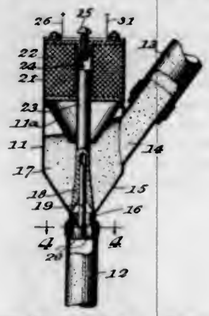
1. In a shoe construction, an outer sole having a depressed arch portion, a series of connected layers filled into said arch portion, and a heel fitting the sole and conforming with the heel portion thereof, said depressed arch portion being flush with the bottom of the sole and heel.

1,781,119. PROCESS OF PRODUCING MALLEABLE-IRON CASTINGS. LESLIE H. MARSHALL, Columbus, Ohio, assignor of one-half to Adin A. Grubb, Columbus, Ohio. Filed Apr. 27, 1928. Serial No. 273,208. 11 Claims. (Cl. 148—21.8.)



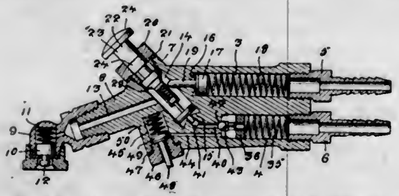
1. The improvement in the art of producing malleable iron castings which consists in subjecting white iron castings to a heat treatment at temperatures and for a period of time adapted to effect malleablization of said castings, and maintaining around said castings a non-oxidizing and etching gaseous atmosphere while the temperature of the heat treatment is above 1000° F.

1,781,120. SANDING DEVICE FOR MOTOR VEHICLES. WILLIAM C. MARTIN, Boston, and WALLACE MARTIN, Watertown, Mass. Filed Apr. 29, 1929. Serial No. 358,835. 4 Claims. (Cl. 291—23.)



2. An attachment for vehicles to distribute skid preventing material consisting of a container for the anti-skid material having a tapered lower portion provided with a discharge outlet at its lower end, a valve which normally closes said outlet, a stem for said valve which extends upward through said container and means connected with said stem within the control of the operator to lift said valve at will and thereby permit the discharge of said skid preventing material through said outlet, said container being provided with baffle plates at its upper part and downwardly inclined toward said stem, said baffle plates being located above the portion of the container which holds the anti-skid material.

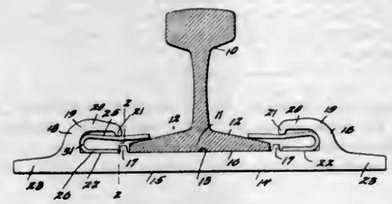
1,781,121. AIR TESTER. ERNEST H. MCFARLAND, Louisburg, N. C., assignor of one-third to James A. Hodges, Louisburg, N. C., one-sixth to Fred M. Hodges, Richmond, Va., and one-sixth to John M. Hodges, Fayetteville, N. C. Filed Oct. 2, 1928. Serial No. 309,811. 2 Claims. (Cl. 152—11.5.)



1. An air tester for tires comprising a casting having an air inlet passage normally closed by a valve, a passage

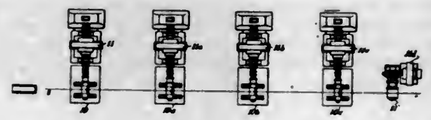
to be connected to a gage, a chamber between the passages and an air outlet passage leading from the chamber, a plunger for unseating the valve and a spring influenced valve carried by the plunger for closing the passage to the gage when the first mentioned valve is unseated, a tubular valve cage in the gage passage which has slits communicating with its bore, a ball valve in the cage movable by air pressure between the passage and gage to close the passage to the chamber, said casting having an air bleed passage communicating with the tubular valve cage and a normally closed release valve for said passage.

1,781,122. TIE-PLATE AND KEY. JOHN A. MCGREW, Albany, N. Y. Filed Oct. 3, 1929. Serial No. 397,116. 10 Claims. (Cl. 238—304.)



1. In a rail fastener, in combination, a tie plate, means thereon providing a fulcrum, a spring lever engaging beneath said fulcrum and having an edge bearing on the rail base and means on said lever bearing on said plate to flex the lever, said means also locking the lever between the plate and fulcrum.

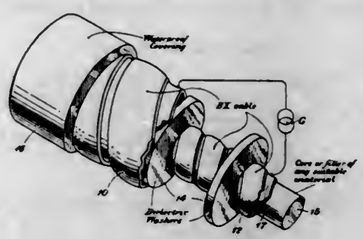
1,781,123. METHOD OF COLD ROLLING AND COILING STRIPS. HARRY M. NAUGLE and ARTHUR J. TOWNSEND, Canton, Ohio, assignors, by mesne assignments, to The American Rolling Mill Company, Middletown, Ohio, a Corporation of Ohio. Continuation of application Serial No. 739,302, filed Sept. 23, 1924. This application filed Apr. 28, 1927. Serial No. 187,186. 1 Claim. (Cl. 80—60.)



The method of reducing the thickness of strips of steel and the like by tandem stands of rolls, which consists in constantly maintaining an elongating stretching tension greater than the elastic limit but less than the ultimate strength of the metal in the strip on both sides of each successive stand of rolls, to straighten and set the structure of the strip; the pull on the strip extending between the successive stands of rolls being caused by action of the succeeding stand of rolls upon the strip between it and the previous stands of rolls.

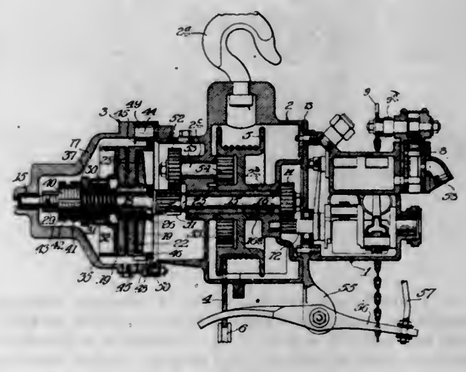
1,781,124. CONCENTRIC CONDUCTING SYSTEM. HARRY R. NEIN, Westfield, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed May 23, 1929. Serial No. 365,514. 5 Claims. (Cl. 173—13.)

1. In a conducting system for the communication of intelligence, two conductors connected one as a return for the other, each conductor being in the form of a shell of conductive material and the two conductors being arranged concentrically one inside the other, means to prevent moisture from entering the interior of the outer conductor, the inner conductor being formed by spirally winding a thin strip of conducting material so that the edges of successive spirals overlap, and insulating means for separating the conductors electrically and for maintaining them in concentric relation, said insu-



lating means being so formed that the dielectric between adjacent surfaces of the conductors will be principally gaseous, and said outer conductor being formed by spirally winding a thin strip of conducting material over said insulating means so that the edges of successive spirals overlap.

1,781,125. CLUTCH MECHANISM FOR POWER HOISTS. REINHOLD A. NORLING, Aurora, Ill., assignor to Independent Pneumatic Tool Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 15, 1927. Serial No. 183,967. 13 Claims. (Cl. 254—168.)

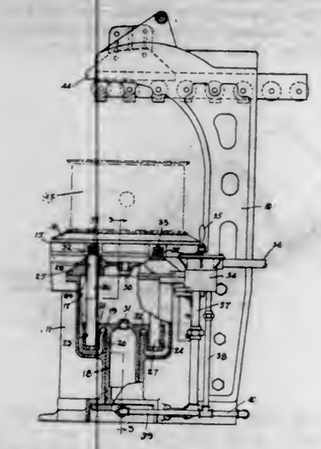


1. In a power-driven hoist, the combination with a reversible motor and a hoisting drum, of a clutch mechanism for connecting the motor with the drum in raising and lowering a load, and screw actuated means operated by the motor when lowering the load for alternately engaging and disengaging the clutch to prevent the load from running ahead of the motor and thus be positively lowered thereby.

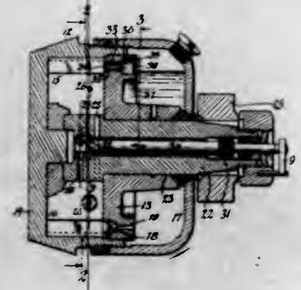
1,781,126. MECHANISM FOR MAKING MOLDS. EARL F. OYSTER, Cleveland Heights, and FRANCIS N. GILLILAND, Shaker Heights, Ohio, assignors to The Osborn Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 2, 1928. Serial No. 296,883. 13 Claims. (Cl. 22—45.)

4. In a mold making machine, a base, a mold-carrying platform reciprocably mounted in said base, and stripper

mechanism comprising a plurality of independent reciprocable units, fluid actuated means for causing reciprocation of said units, and automatic means for causing the upper ends of said units to assume a common level at the upper extremities of the strokes thereof.



1,781,127. SHOCK ABSORBER. RALPH F. PEO, Kenmore, N. Y., assignor to Houde Engineering Corporation, Buffalo, N. Y., a Corporation of New York. Filed Mar. 10, 1930. Serial No. 434,523. 7 Claims. (Cl. 188—89.)



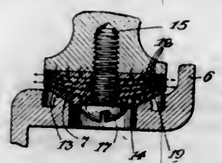
1. A shock absorber comprising a working chamber adapted to contain a resistance liquid; a piston movable back and forth in said working chamber; a replenishing chamber from which liquid is supplied to said working chamber, a partition wall between said chambers containing a vent passage leading from the upper part of said working chamber to the upper part of said replenishing chamber, and a pocket which is arranged at that end of said vent passage which opens into the replenishing chamber and which is adapted to contain a quantity of liquid covering said vent passage and forming a liquid seal for the same, said pocket receiving its sealing liquid solely from said working chamber through said vent passage.

1,781,128. PROCESS FOR CRACKING PETROLEUM OIL. ROBERT T. POLLOCK, New York, N. Y., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Mar. 9, 1927. Serial No. 173,921. 2 Claims. (Cl. 196—49.)

2. A process for cracking heavy oil to produce gasoline comprising effecting the decomposition of the oil in more than two successive stages, forming in each stage at least three products, namely, gasoline-like constituents, intermediate products heavier than gasoline and residual products, removing from each stage the gasoline-like constituents and residual products formed in said stage, and continuing the cracking in each succeeding stage of only the intermediate products of the preceding stage, whereby the desirable products and the undesirable products of the cracking reaction are removed from the zone of cracking as formed and only intermediate products of cracking subjected to prolonged cracking treatment.

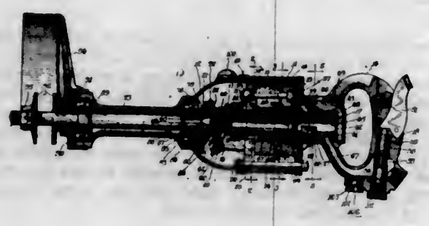


1,781,129. WASHER. JOHN A. SEXAUER, New York, N. Y. Filed June 6, 1928. Serial No. 283,346. 10 Claims. (Cl. 251—27.)



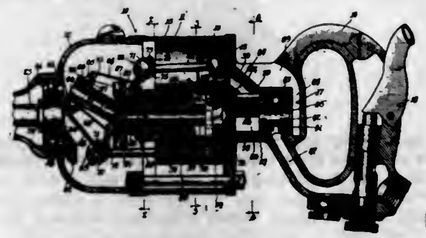
2. In a device of the class described, the combination of a valve seat, a valve stem, and a washer mounted on said valve stem, provided with a conical surface for engagement with the valve seat, said washer having fabric members embedded therein to prevent it from expanding when pressure is exerted thereon, the bottom fabric member being spaced a substantial distance from the bottom of the washer.

1,781,130. PRESSURE-FLUID MOTOR. ERNEST H. SHAFF, Grand Haven, Mich., assignor to Wm. H. Keller, Inc., Grand Haven, Mich., a Corporation of Michigan. Filed Oct. 13, 1924. Serial No. 743,205. 2 Claims. (Cl. 74—14.)



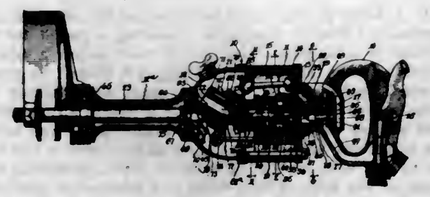
1. A pressure fluid motor of the character described comprising, in combination, a crank arm, a wobbler comprising an inclined pressure plate and an axially projecting stem, said crank arm being apertured to receive said axial stem, and two sets of antifriction elements interposed between the crank arm and said axial stem with the elements of the respective sets disposed on opposite faces of said crank arm so as to hold the wobbler and crank against relative axial movement, said stem being adjustable axially relative to the plate to permit of the insertion or removal of the anti-friction elements.

1,781,131. PRESSURE-FLUID MOTOR. ERNEST H. SHAFF, Grand Haven, Mich., assignor to Wm. H. Keller, Inc., Grand Haven, Mich., a Corporation of Michigan. Filed Feb. 16, 1925. Serial No. 9,391. 10 Claims. (Cl. 74—14.)



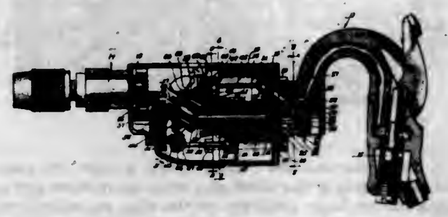
1. A pressure fluid actuated tool comprising, in combination, a spindle having a crank portion rigid therewith, a gyratory member comprising a plate mounted to turn on two axes intersecting at a point lying in the axis of said spindle and spaced from the arm of said crank, a cupped member supported upon said plate in spaced relation thereto and forming a ball-race, said crank also having a ball-race thereon in opposed relation to said member, and bearing balls entered between said races.

1,781,132. PRESSURE-FLUID MOTOR. ERNEST H. SHAFF, Grand Haven, Mich., assignor to Wm. H. Keller, Inc., Grand Haven, Mich., a Corporation of Michigan. Filed Feb. 16, 1925. Serial No. 9,392. 13 Claims. (Cl. 74—14.)



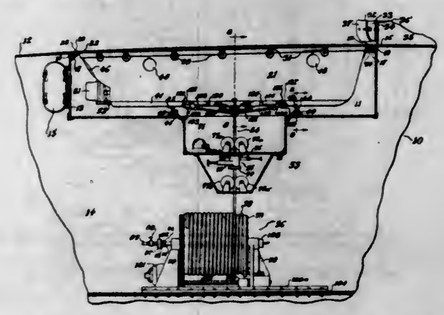
1. In a device of the character described having a gyrating series of bell cranks, a shaft having its two ends alined and having an intermediate integral section offset at an angle thereto with its axis adapted to describe a cone in the rotation of the shaft, a sleeve pivoted about said section, said sleeve constituting an arm common to each of the bell cranks of the series, and balls bearing in races formed directly in said shaft section and in said sleeve, said sleeve being adjustable to permit insertion and removal of said balls.

1,781,138. PRESSURE-FLUID MOTOR. ERNEST H. SHAFF, Grand Haven, Mich., assignor to William H. Keller, Inc., Grand Haven, Mich., a Corporation of Michigan. Filed Dec. 2, 1926. Serial No. 152,107. 20 Claims. (Cl. 74—14.)



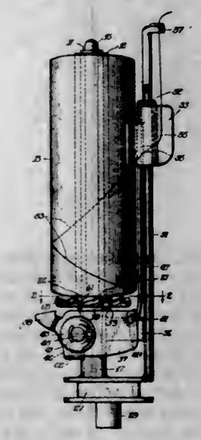
1. In a device of the character described, the combination of a rotatable shaft, an arm on said shaft disposed angularly relative thereto, and means for imparting rotation to said shaft including a plurality of motor units arranged to operate successively, a crank plate rotatably mounted on said arm and operatively connected with said motor units, said plate having a central opening therein adapted to receive said arm, and bearing elements interposed between the arm and the plate at spaced points along the arm, said arm having an opening therein extending radially into one of said spaced points to permit the insertion and removal of certain of said bearing elements.

1,781,134. SUBMARINE AND AUXILIARY BOAT THEREFOR. EDWARD J. SHOEMAKER, Canton, Ohio. Filed Feb. 7, 1928. Serial No. 252,469. 8 Claims. (Cl. 114—16.7.)



1. A submarine, an auxiliary boat, an extensible and retractable connecting member between the boat and the submarine, means operable from within the boat for detaching the boat from the member, means in the submarine for extending and retracting the connecting member into and out of the submarine, and a water seal on the submarine about the connecting member, and the connecting member including an electrical conductor for connecting electrical apparatus in the boat and electrical apparatus in the submarine.

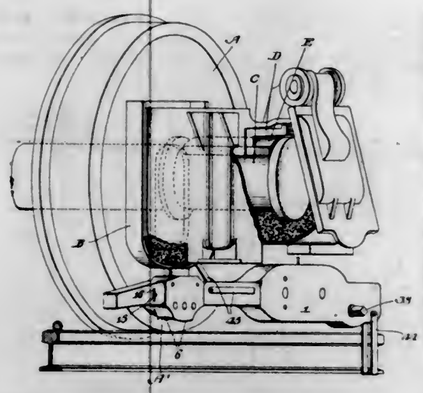
1,781,135. COP HOLDER. LOUIS J. SLADEK, Chicago, and HENRY G. ANDERSON, Sycamore, Ill. Filed Mar. 28, 1928. Serial No. 265,441. 3 Claims. (Cl. 96—15.)



1. In a cop carrier having a thread controlled detent and a thread rotated spindle, a lock member rotatable with the spindle and comprising a disc arranged approximately in a plane perpendicular to the axis of the spindle

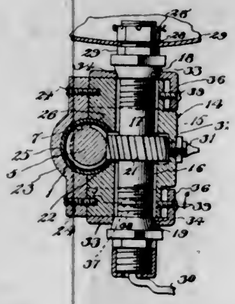
and having radial slots to provide detent engaging segments, said segments being warped, having their trailing edges offset away from the detent an amount equaling at least the thickness of the segments, to facilitate the engagement of the detent with the leading edge of the following segment.

1,781,136. JOURNAL JACK. HENRY J. SMITH, Philadelphia, Pa. Filed Mar. 16, 1925. Serial No. 15,927. 17 Claims. (Cl. 254—33.)



1. The combination with a wheel and a journal box, of a jack having means for engaging said wheel with either side of said jack adjacent to the wheel, a ram for engaging said box, mechanism for spreading said ram and means, and means preventing rotation of said ram during such spreading.

1,781,137. HEADLIGHT MOUNTING. GEORGE E. SNYDER, Pomona, Calif. Filed Sept. 28, 1928. Serial No. 309,046. 1 Claim. (Cl. 240—62.)



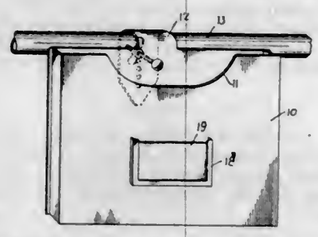
A vehicle headlight mounting including a bearing support having openings for the headlight and steering gear shafts, said openings being disposed at a right angle to one another and in communication to provide clearance for the gearing connecting the said shafts, said support having a detachable element to admit of placing the support in position or removing it from the casing of the said steering gear shaft, bearing plates at opposite ends of the support having end and side flanges, the latter contacting with the sides of the support to guide the plate and sustain lateral stresses, means between the end flanges and support for adjusting the plates, and means carried by the support and engageable through slots formed in the side flanges of the plates to secure the latter in the required adjusted position.

1,781,138. TENTER CLIP. WILLIAM A. STELLING, Providence, R. I., assignor to The Textile Finishing Machinery Company, Providence, R. I., a Corporation of Rhode Island. Filed Dec. 10, 1929. Serial No. 413,037. 9 Claims. (Cl. 26—62.)



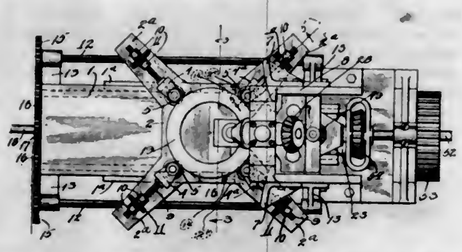
1. In a tenter clip, a body portion having a fixed jaw, a pair of spaced arms extending from the body to overlie said fixed jaw, a swinging jaw pivoted in said arms to cooperate with the fixed jaw, a pivot shaft, a plurality of laterally spaced feeling fingers separately mounted upon said pivot shaft for engaging the surface of the cloth.

1,781,139. HOSPITAL CHART AND CARD HOLDER. CHARLOTTE TALLEY, New York, N. Y. Filed Mar. 12, 1928. Serial No. 260,825. 6 Claims. (Cl. 40—10.)



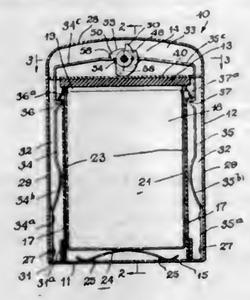
1. A hospital chart and bed card holder, comprising a rectangular shaped receptacle providing a pocket for the deposit of a hospital chart therein, and having a portion cut away from the top of the front face thereof to permit a chart therein to be readily grasped to withdraw the same, means consisting of a frame to retain an identification bed on the front face of the receptacle, and means for adjustably suspending the receptacle from a bed railing of any of a number of different sizes, consisting of a hook, on the back of the holder and adapted to pass over a bed railing and down below the same, the back of said receptacle having a hole formed therein and the free end of said hook having a series of vertically aligned holes formed therein, a bolt extending through the hole in the back of the receptacle and through one of said series of holes to secure the hook upon the railing, and means on said bolt to hold the same removably but firmly in place.

1,781,140. UNIVERSAL RING-ROLLING MACHINE. JAMES HALL TAYLOR, Chicago, Ill. Filed Dec. 10, 1923. Serial No. 679,573. 26 Claims. (Cl. 80—5.)



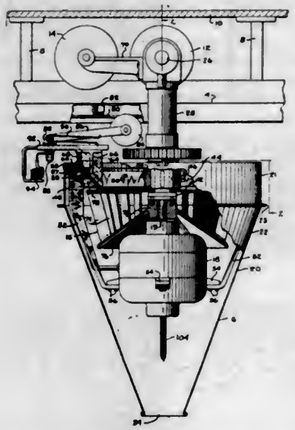
1. In a machine for rolling rings, a pair of tapered rolls for engaging the sides of a ring, an interior roll for engaging the inner periphery of the ring, an exterior roll for engaging the outer periphery of the ring, said rolls defining a closed way and having mutually overlapping parts when properly adjusted for the purpose set forth.

1,781,141. RECEPTACLE. ARTHUR VON FRANKENBERG, New York, N. Y. Filed Jan. 3, 1929. Serial No. 330,044. 8 Claims. (Cl. 206—41.)



1. In a water tight receptacle, in combination, a container having an open end, a cover for said container, a sealing member and means for clamping said member to said container at said open end, said means comprising means for fixing said cover to said container, a shaft rotatably mounted on said cover and means to actuate said shaft extending on the outer side of said cover.

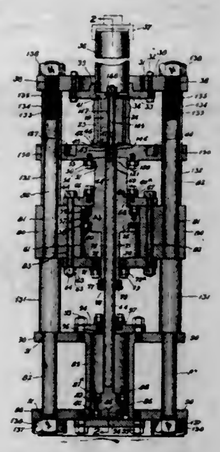
1,781,142. APPARATUS FOR OPERATING ON SPINNING FRAMES AND OTHER MACHINES. WILLIAM B. WALKER, Roxboro, N. C. Filed June 3, 1925. Serial No. 34,572. 12 Claims. (Cl. 15—20.)



1. Apparatus for operating upon spinning frames and other machines arranged in rows with the several rows arranged side by side having, in combination, an endless track arranged above the rows of machines, a carriage mounted to travel along the track, means mounted on the carriage for creating a current of air a distance above the machines and directing the air downwardly over the machines, and means for driving the carriage along the track so as to cause each machine to be operated upon at predetermined intervals to uniformly maintain the machines and the atmosphere above the machines substantially free from dust and other fine particles.

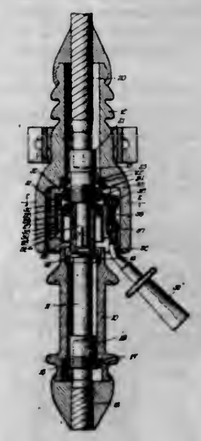
1,781,143. METHOD OF MAKING CASTINGS. JAMES H. WILLIAMS, Detroit, Mich., assignor to Detroit and Security Trust Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 7, 1927. Serial No. 173,224. 5 Claims. (Cl. 22—200.)

1. The method of forming annular or reentrant section castings which comprises pouring molten metal around a metal mold section; removing the casting and mold section from the remainder of the mold; subjecting the joint between the casting and mold section to the pressure



of liquid outside the joint until the liquid enters between and lubricates the abutting surfaces of the casting and mold section; and forcing the mold section out of the embracing walls of the casting.

1,781,144. CONDUCTOR DISCONNECTER. PAUL F. WILLIAMS, Chicago, Ill., assignor to G. & W. Electric Specialty Co., Chicago, Ill., a Corporation of Illinois. Filed May 20, 1925. Serial No. 31,533. 15 Claims. (Cl. 173—353.)

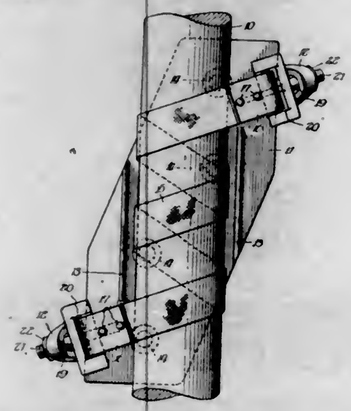


2. In a device of the class described, the combination of a cable, a contact cylinder electrically connected thereto, another cable, a contact cylinder electrically connected to said second cable, said contact cylinders being telescopically arranged, and flexible means for pressing one of said cylinders into intimate engagement with said other cylinder for making an intimate electrical contact therebetween, and means associated with said flexible means and operable to selectively release intimate contact between said cylinders.

10. In a device of the class described, the combination of a cable, a connecter connected to said cable and having a socket portion, another cable, a connecter electrically

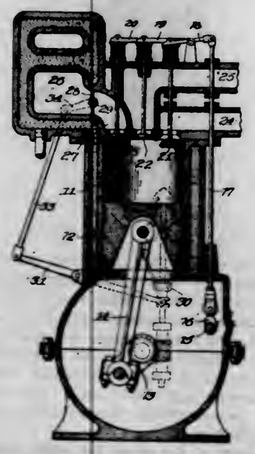
connected to said second cable and having a plug portion adapted to make electrical contact with the socket portion of said other connecter, contact cylinders electrically connected to each of said connecters and being telescopically arranged, and means for controlling the intimacy of the electrical contact between said contact cylinders.

1,781,145. CABLE HANGER. PAUL F. WILLIAMS, Chicago, Ill., assignor to G. & W. Electric Specialty Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 28, 1926. Serial No. 132,131. 3 Claims. (Cl. 248—31.)



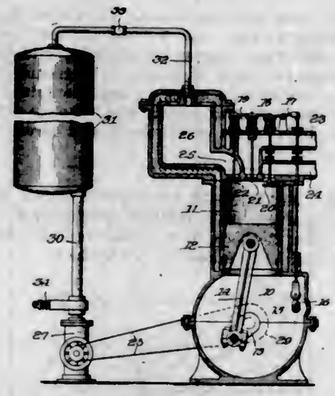
2. In a cable hanger for supporting a cable, the combination of attaching means adapted to be attached to a supporting element and having spaced lugs thereon, and a flexible flat element spirally engaging a cable, the ends of said flat element being attached to and held by said lugs to bind said flat element between and against said cable and attaching means to thereby prevent wear of said cable and to hold said cable in fixed relative position with respect to said attaching means.

1,781,146. INTERNAL-COMBUSTION ENGINE. WLADIMIR M. ZAIKOWSKY, Pasadena, Calif., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed Oct. 23, 1925. Serial No. 64,354. 4 Claims. (Cl. 123—1.)



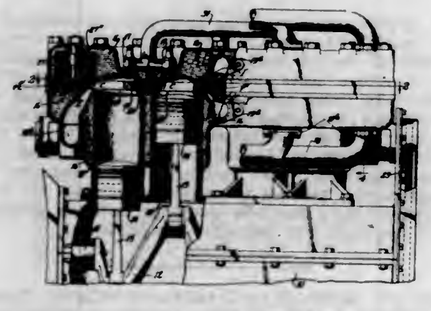
1. The combination with an internal combustion engine of the four-stroke cycle type having a cylinder and piston for compressing a combustible charge, of a compression chamber of constant volume connecting only with the cylinder above the piston, a valve controlling said connection, means for cooling the gaseous contents of said compresion chamber, means for opening the said valve during the compression stroke of the engine and for closing the said valve before ignition can spread into the compression chamber, and a governor-controlled auxiliary valve controlling the connection between the compression chamber and the cylinder.

1,781,147. SUPERCHARGER FOR INTERNAL-COMBUSTION ENGINES. WLADIMIR M. ZAIKOWSKY, Pasadena, Calif., assignor to Standard Oil Development Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 23, 1925. Serial No. 64,355. 5 Claims. (Cl. 123—1.)



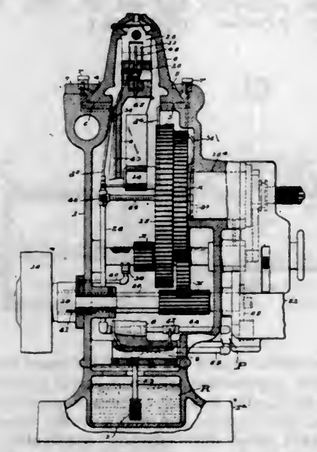
1. The method of supercharging an internal combustion engine, consisting of compressing the charge during the compresion stroke only, in a volume larger than the cylinder, mixing compressed gas with said charge, and introducing a part of said charge into said cylinder on the next compression stroke.

1,781,148. INTERNAL-COMBUSTION ENGINE. WLADIMIR M. ZAIKOWSKY, Pasadena, Calif., assignor to Standard Oil Development Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 8, 1929. Serial No. 345,477. 4 Claims. (Cl. 123—59.)



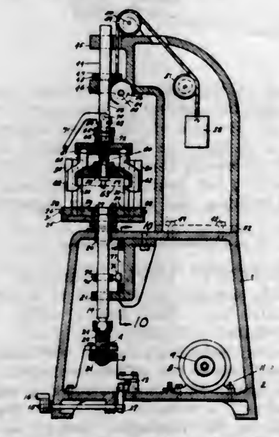
. 1. An internal combustion engine including: a cylinder with a single port in or near the head; a piston in the cylinder; a movable plate lying over the cylinder port and having a port therein; exhaust and inlet passages having ports near the cylinder port; and means for moving the plate to cause it to overlap the cylinder port and the exhaust or inlet ports with its port in accordance with the desired cycle.

1,781,149. OILING SYSTEM FOR SHAPERS. WILLIAM F. ZIMMERMANN, Maplewood, N. J., assignor to Gould & Eberhardt, Newark, N. J., a Corporation of New Jersey. Filed Jan. 24, 1927. Serial No. 163,064. 6 Claims. (Cl. 184—6.)



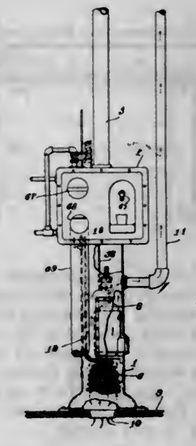
1. In a shaping machine constructed with a closed frame having in its upper portion, and exteriorly thereof, pairs of transversely arranged bearing surfaces forming open-ended channels and a reciprocable ram arranged between and guided by said bearing surfaces, a lubricating system comprising a main lubricant reservoir; a pump adapted to draw lubricant from said reservoir; auxiliary reservoirs of relatively small capacity located exteriorly of said closed frame and adjacent each pair of said bearing surfaces; lubricant ducts connecting said auxiliary reservoirs with said surfaces; a lubricant conduit connecting said pump with each of said auxiliary reservoirs positively and continuously to supply lubricant thereto from said pump; and an overflow drain connected to each of said auxiliary reservoirs to return the excess lubricant to said main reservoir.

1,781,150. POWER GANG FILING DEVICE. CARL WINNER, Hamtramck, Mich. Filed Nov. 30, 1928. Serial No. 322,781. 5 Claims. (Cl. 29—16.)



1. A gang filing device adapted for filing a series of parallel work slots simultaneously, comprising a rigid housing frame having a gang file head slidably mounted therein, power means attached to said gang file head by suitable mechanism for producing an oscillatory movement thereof, a series of parallel files mounted within said gang file head, and means mounted on said housing frame for rigidly supporting work pieces within said file-head.

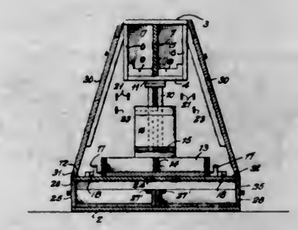
1,781,151. COOLING SYSTEM FOR PASSENGER VEHICLES. CARTER F. HALL, Baltimore, Md. Filed June 11, 1929. Serial No. 370,012. 29 Claims. (Cl. 62—141.)



27. The combination in a water cooling system comprising a motor, condenser, a compressor within a hollow upright, an evaporator, a liquid container, heat insulating material above said hollow upright surrounding said evaporator and liquid container, said hollow upright having an opening at the bottom below the condenser coil, motor, and compressor for admitting air thereto to a ventilating outlet above the air inlet.

28. The combination in an apparatus for cooling air and water for passenger vehicles, comprising an air cooling compartment, an evaporator, a liquid container, a brine container, means for compressing a refrigerant, cooling the refrigerant, and forming a closed circuit for the refrigerant and for returning the refrigerant to be recompressed, and means for bringing the refrigerant, air, liquid and brine in heat exchanging relation with the evaporator.

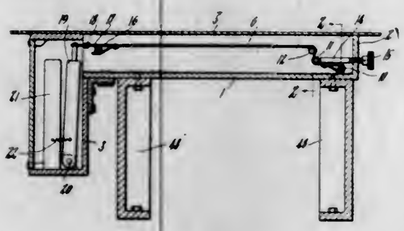
1,781,152. FLAT-TOP-DESK CABINET. BASIL NORRIS ABBOTT, Richmond, Va. Filed June 17, 1926. Serial No. 116,698. 1 Claim. (Cl. 312—189.)



In a cabinet for placement on the top of a flat top desk a partition member which divides the cabinet into an upper and a lower compartment, detachable doors for the upper compartment, drawers for the lower compartment,

said drawers having their side walls and rear walls of a less height than their front walls to provide a space for storage of said doors above the top edges of said side and rear walls.

1,781,153. MEANS FOR MEASURING MOISTURE CONTENT OF SHEET MATERIAL. ALBERT ALLEN, Winchester, Mass., assignor to Atlantic Precision Instrument Company, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 2, 1926. Serial No. 152,126. 6 Claims. (Cl. 177—351.)



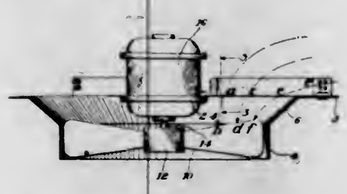
1. In a machine of the class described, a hygrometric filament variable in length in accordance with its moisture content, means for holding said filament in extended position in proximity to sheet material so as to be responsive in its moisture content to the moisture content of said material, means for shielding said filament against moisture conditions other than those from said material, and a device having an electrical characteristic varied by the variations in length of said filament.

1,781,154. CONDIMENTATION OF GROUND MEATS. HUGH E. ALLEN, Chicago, Ill., assignor of one-half to Albert G. McCaleb, Evanston, Ill. Filed July 27, 1929. Serial No. 381,680. 9 Claims. (Cl. 99—11.)

1. A dry seasoning material for ground-meats comprising a minor quantity of the essential oils of spices and oleo-resins of peppers, and a major quantity of semi-pulverulent sugar intimately mixed with said oils and oleo-resins and acting as a carrier therefor.

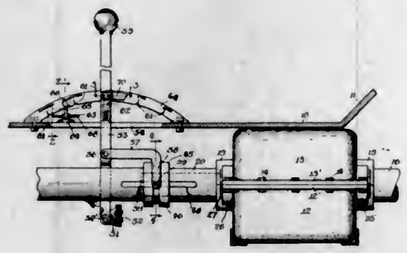
2. The method of making a material for seasoning ground meats which consists in mixing a minor quantity of spice oils with a major quantity of initially coarse granulated sugar and grinding the mixture until the sugar has been reduced to a semi-pulverulent state.

1,781,155. PROPELLER FAN. SAMUEL M. ANDERSON, Hyde Park, Mass., assignor to B. F. Sturtevant Company, Hyde Park, Mass., a Corporation of Massachusetts. Filed May 21, 1928. Serial No. 279,332. 1 Claim. (Cl. 230—117.)



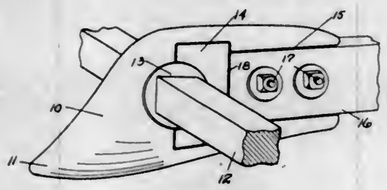
A high speed propeller fan comprising fan blades, a thimble, a converging inlet chamber connected with the thimble, a flange attached to the inlet chamber and arranged in a plane perpendicular to the axis of the blades, a fan shaft, a motor, and a plurality of flat supporting arms, each connected at one end to the motor and at the other end to the flange beyond the periphery of the inlet chamber, the arms being arranged edgewise with respect to the inflow of air.

1,781,156. AUTOMOBILE REVERSE GUARD. HERBERT E. BROWN, Chicago, Ill., assignor of one-half to Maurice H. Mandelbaum, Chicago, Ill. Original application filed Aug. 18, 1927, Serial No. 213,785. Divided and this application filed Oct. 26, 1929. Serial No. 402,611. 2 Claims. (Cl. 74—39.)



1. In a reverse guard for a variable speed transmission gearing, the combination with a segment bar formed with neutral and reverse locking notches, a pivoted lever slidable along said segment bar, and a spring pressed locking dog on said lever automatically engageable with said notches, of a spring pressed stop member normally lying across the path of movement of said lever between said notches, means for retracting said stop member, and a keeper on said lever operative to hold said stop member retracted during movement of said lever between said neutral and reverse notches.

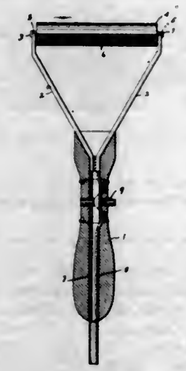
1,781,157. SHOE BEARING. CLAUDE C. CALKINS, Spokane, Wash. Filed Nov. 26, 1929. Serial No. 409,988. 5 Claims. (Cl. 97—42.)



1. A bearing of the character described comprising a shoe, a fixed bearing element, a replaceable bearing element, flanges on one side of the latter engaging recesses in the shoe, a shoulder on the replaceable bearing element, an inset extension member on said replaceable element, a supporting bar abutting said shoulder and overlapping the extension, and means for fastening the bar to said shoe.

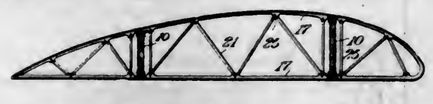
1,781,158. ELECTRIC IRON. PHILIP S. CAMPBELL, Houston, Tex., assignor of one-half to March Culmore, Harris County, Tex. Filed Feb. 1, 1929. Serial No. 336,728. 1 Claim. (Cl. 219—37.)

An electric iron including a handle, diverging side bars anchored, at one end, to one end of the handle and whose free ends are turned into parallel relation and provided with inside sockets, a roller having a stub shaft at each end journaled in the respective sockets, an electrical heating element within and insulated from the roller and electrically connected with said shafts, current conductors leading from a suitable source through said handle and through said side bars and electrically connected with



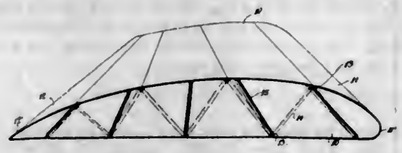
said shafts, said side bars being adapted to be sprung apart to permit the detachment of the roller therefrom and a circuit maker and breaker in said handle.

1,781,159. WING FOR AIRCRAFT. EDMUND B. CARNS, New York, N. Y., assignor to Cairns Development Company, Wilmington, Del., a Corporation of Delaware. Filed May 18, 1927. Serial No. 192,244. 4 Claims. (Cl. 244—31.)



1. A wing for air craft having spars each comprising upper and lower T's with split webs opening inwardly, and diagonally disposed struts connecting the T's, the struts being disposed alternately in pairs and singly with the single strut entering and fitting snugly between the web members of the T's and with the other struts straddling said web members.

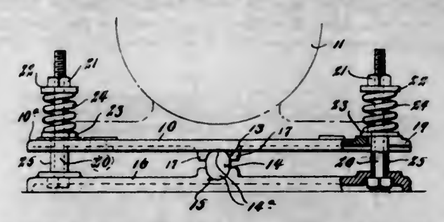
1,781,160. AEROFOIL. EDMUND B. CARNS, Naugatuck, Conn., assignor to Cairns Development Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 2, 1929. Serial No. 351,869. 9 Claims. (Cl. 244—12.)



4. An aerofoil having a surface of longitudinally tapering strips which also taper in gauge and having inwardly projecting abutting flanges with the flanges at the upper and lower parts of the aerofoil in staggered relation.

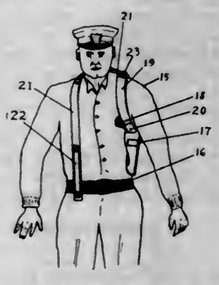
1,781,161. ADJUSTABLE MOUNTING. JOHN O. CARREY, St. Louis, Mo., assignor to Carrey-Morse Engineering Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 16, 1926. Serial No. 102,494. 5 Claims. (Cl. 248—16.)

1. A mounting for refrigerating apparatus comprising in combination a base, a strip of rubber arranged transversely thereon and extending upwardly therefrom, a rigid mounting plate resting intermediate its ends on said strip and pivotally supported thereby, devices extending from said base for interengagement with said plate, and



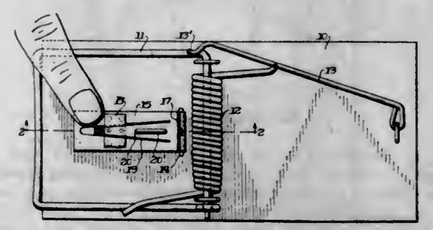
coil springs interposed between said plate and said devices for maintaining said plate in yielding engagement with said strip and permitting adjusting tilting movement of said plate.

1,781,162. SHOULDER PISTOL HOLSTER. EDWARD E. CLARK, Los Angeles, Calif. Filed June 17, 1929. Serial No. 371,529. 4 Claims. (Cl. 224—2.)



1. A shoulder holster comprising a holster adapted to receive a firearm or the like, a shoulder strap adapted to encircle the shoulder of the wearer to suspend the holster beneath his armpit, the ends of the shoulder strap being connected respectively to the inner and outer sides of the holster.

1,781,163. ANIMAL TRAP. THOMAS A. CLARKSON, Nashville, Tenn. Filed June 14, 1929. Serial No. 370,771. 9 Claims. (Cl. 43—81.)

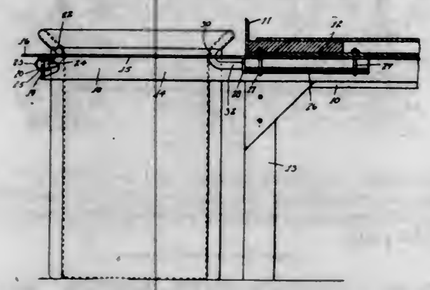


1. In an animal trap, a bait holding trigger comprising a bait plate, and a spring tongue connected at one end to said plate and having a depending tip portion extending below said plate to form a bearing portion whereby said plate may be depressed below said tongue so that bait may be clampingly engaged therebetween.

1,781,164. BAG HOLDER. CHARLES E. CONSTABLE, Cincinnati, Ohio, assignor to The National Marking Machine Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 30, 1928. Serial No. 296,270. 2 Claims. (Cl. 83—26.)

1. A bag holder comprising a horizontal open frame, a fixed bag supporting rod supported horizontally above

one side of said frame, having its ends bent inwardly and downwardly and thence horizontally and outwardly and anchored in said frame member, a second bag supporting member supported parallel with the first member having its free ends bent downwardly and toward the first bag supporting member, and then bent horizontally and away



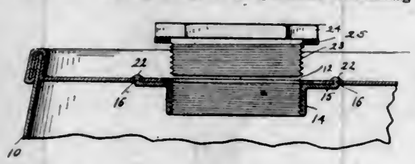
from the fixed bag supporting rod, means for slidably mounting said horizontal portions to permit the second bag supporting member to move toward and from the first bag supporting member, a bag to be supported between the horizontal members, and means for yieldably supporting said second bag supporting member outwardly from the first bag supporting member.

1,781,165. CENTRIFUGAL FAN. ALBERT A. CRIQUI, Buffalo, N. Y., assignor to Buffalo Forge Company, Buffalo, N. Y., a Corporation of New York. Filed Oct. 18, 1928. Serial No. 313,211. 8 Claims. (Cl. 230—134.)

1. A centrifugal fan having a wheel provided with a plurality of blades, the surfaces of each blade being formed from portions of the surfaces of two cones, the cones being so positioned that their surfaces have substantial line contact, and each blade being so inclined that a line drawn tangent to both cone surfaces and in a plane at right angles to the axis of the wheel is oblique to a plane drawn through the axis of the wheel and coincident with a point near the tip of the heel of the blade, said line intersecting said plane at a point between the axis of the wheel and the tip of the heel.

1,781,166. BUNG RING. HENRY M. DILLHOEFER, Cleveland Heights, Ohio, assignor to The Byrne Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 16, 1927. Serial No. 191,672. 6 Claims. (Cl. 220—39.)

1. A metal container having a bung hole, and a bung ring applied to the inner side of a portion of the container, one of said parts having openings spaced radially from the bung hole a distance sufficient to clear the bung and the other having integral projections extending into



and filling the openings of the first part so as to form a liquid tight closure for said openings and secure the ring in place.

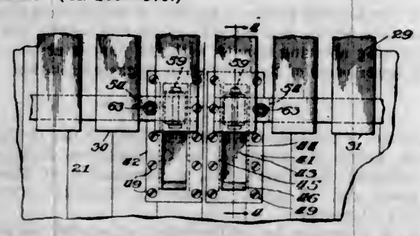
1,781,167. CHATTERLESS OIL AND PROCESS OF PRODUCING THE SAME. THEODORE W. DOELL, Berkeley, and EDWIN N. KLEMGARD, Albany, Calif., assignors to Standard Oil Company of California, San Francisco, Calif., a Corporation of Delaware. Filed Oct. 12, 1926. Serial No. 141,246. 13 Claims. (Cl. 87—9.)

11. A lubricating oil having dissolved therein a complex lead salt of unsaturated fatty acids and napthenic-like acids.

1,781,168. DIE-CASTING MACHINE. EDGAR N. DOLLIN, Malba, N. Y., and CONRAD C. JACOBSON, Glen Ridge, N. J.; said Jacobson assignor to John Robertson Co., Inc., Brooklyn, N. Y., a Corporation of New York, and said Dollin assignor to Allied Die-Casting Corporation, Long Island City, N. Y., a Corporation. Filed Feb. 23, 1928. Serial No. 256,302. 19 Claims. (Cl. 22—69.)

1. A die-casting machine having, in combination, a stationary die and a shiftable die, a ram for actuating the shiftable die, fluid actuated means operating upon said ram to cause the same to position the shiftable die accurately relatively to the stationary die, additional means acting directly upon the ram to lock the shiftable die when positioned, and a single means for controlling the action of both of the ram operating means.

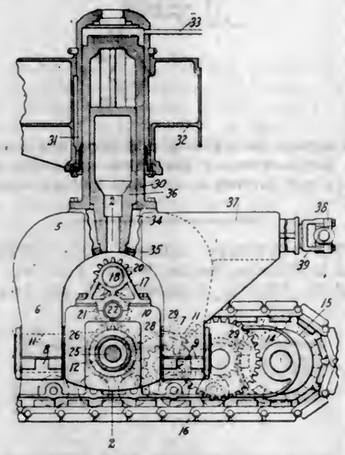
1,781,169. REFRIGERATOR CAR. KNUTE EDAHL, Chicago, Ill. Filed May 17, 1929. Serial No. 363,876. 13 Claims. (Cl. 105—375.)



1. In a refrigerator car, the combination of a car with a plurality of floor racks, means for securing said racks to the car adjacent the car walls, and anchoring means for securing the racks at points spaced from the walls comprising female anchor members carried by the floor and male anchor members carried by said racks.

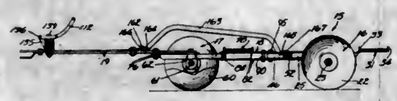
2. In a refrigerator car, the combination of a car with a plurality of floor racks, means for securing said racks to the car adjacent the car walls, and anchoring means for securing the racks at points spaced from the walls comprising female anchor members carried by the floor and male anchor members carried by said racks, said male anchor members being movably mounted to eliminate projections from the racks when the racks are folded against the car wall.

1,781,170. CRAWLING TRACTION TRUCK. BERLIN S. FERGUSON, Marion, Ohio, assignor, by mesne assignments, to The Marion Steam Shovel Company, (1927), Marion, Ohio, a Corporation of Ohio. Filed Oct. 1, 1927. Serial No. 223,416. 16 Claims. (Cl. 305—8.)



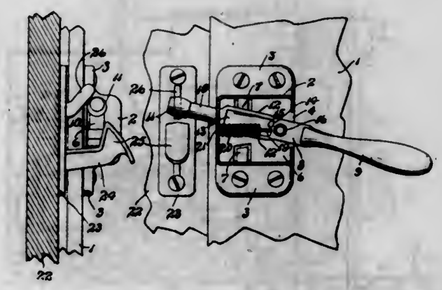
1. In a crawling traction truck, a frame extending lengthwise of said truck and having depending parts arranged near the front and rear ends thereof and spaced apart, a second frame arranged between and pivotally mounted on said depending parts for movement about an axis extending lengthwise of said truck, and projecting laterally beyond the respective sides of the first mentioned frame, and crawling traction devices comprising frames pivotally mounted on the respective laterally projecting portions of said second frame for independent movement about a common axis transverse to the first mentioned axis.

1,781,171. DISK HARROW. SAMUEL S. FURRER, Oxnard, Calif., assignor to Brennels Manufacturing Company, Oxnard, Calif., a Corporation of California. Filed Jan. 8, 1927, Serial No. 159,800. Renewed Sept. 15, 1930. 22 Claims. (Cl. 55—83.)



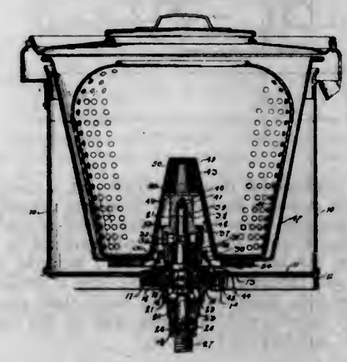
1. In a harrow, the combination of: a front gang; draft means adapted to connect said front gang to a tractor; a rear gang; a rear gang frame secured to said rear gang, said frame having a plurality of openings near the fore and aft central axis of said rear gang; an intergang yoke secured to said front gang; a pivot pin extending through said yoke and engaging one of the openings in said rear gang frame; and means connecting said rear gang frame and said draft means for pivoting said rear gang relative to said front gang.

1,781,172. LATCH. EDWARD F. GRAF, Grand Rapids, Mich., assignor to Winters & Crampton Mfg. Co., Grand Rapids, Mich., a Corporation of Michigan. Filed Apr. 15, 1929. Serial No. 355,120. 4 Claims. (Cl. 292—332.)



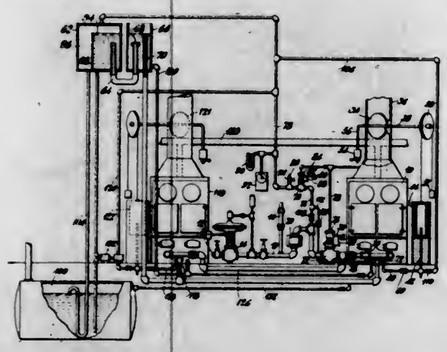
1. In a latch construction, a housing, a lever extending through the housing and pivotally mounted between its ends within and adjacent one end of the housing, said lever having two seats between the pivot and the opposite end of the housing, one being located at each side of the longitudinal center line of the lever, a bar having a head located in one of said seats, said head being changeable in position to seat in the other of said seats, and spring means around the bar between said head and the opposite end of the housing, for pressing the head against the seat on which it is located.

1,781,173. FRICTION CLUTCH. LEE B. GREEN, Lakewood, Ohio, assignor to The Borden Company, Warren, Ohio, a Corporation of Ohio. Original application filed Mar. 25, 1927, Serial No. 178,242, now Patent No. 1,772,863, dated Aug. 12, 1930. Divided and this application filed July 12, 1928. Serial No. 292,103. 3 Claims. (Cl. 64—99.)



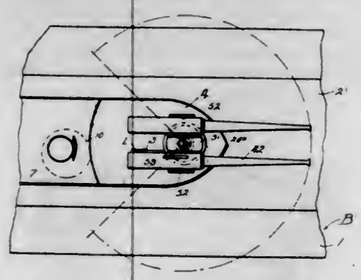
1. In a clutch mechanism, a driving member, a driven member and a coupling therebetween, said coupling comprising a roller bearing, a spiral spring associated with one of said members and forming one of the races for said bearing, means associated with the other of said members and forming the other race for said bearing, and means for compressing said spring endwise to a greater or lesser extent for varying the effective diameter of the race of the bearing formed thereby and thus regulating the amount of friction in said bearing.

1,781,174. FLUID-FUEL-FIRED BOILER. BENJAMIN GREENFIELD, New York, N. Y., assignor to Doherty Research Company, New York, N. Y., a Corporation of Delaware. Continuation of application Serial No. 365,366, filed Mar. 12, 1920. This application filed Aug. 5, 1926. Serial No. 127,351. 50 Claims. (Cl. 236—14.)



1. In a fluid fuel fired boiler the combination of means for feeding fuel to the furnace of said boiler under a gas pressure controlled by the steam pressure in said boiler and means controlled by the pressure of said gas for controlling the draft damper of said boiler furnace.

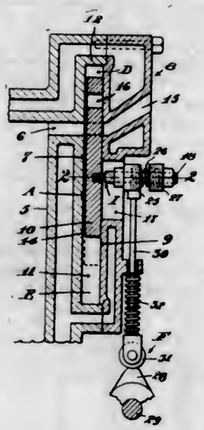
1,781,175. TWIN GUN MOUNT FOR SUBMARINES. HUGO E. GRIESHABER, New London, Conn., assignor to Electric Boat Company, Groton, Conn., a Corporation of New Jersey. Filed Sept. 4, 1928. Serial No. 303,705. 13 Claims. (Cl. 89—37.)



12. In combination in a submarine boat, a gun foundation fixedly mounted on the hull exteriorly thereof, a gun carriage mounted upon the foundation for relative turning movement, guns mounted in said carriage, a spindle secured to the carriage and rotatably mounted through the hull and extending downwardly into a compartment within the hull, means forming a water tight closure between the spindle and the outer wall of the hull, and means for rotating said spindle.

1,781,176. ENGINE VALVE. JOHN H. GRUBE, Pasadena, Calif., assignor to Grube Silent Motors Incorporated, Phoenix, Ariz., a Corporation of Arizona. Filed Mar. 29, 1927. Serial No. 179,321. 6 Claims. (Cl. 123—188.)

1. In an engine valve construction, a valve housing embodying a chamber in open communication with an engine cylinder, a slide valve in said chamber seating on a surface on the side thereof opposite said communication and the other side of which is exposed throughout to the cylinder through said communication and arranged so that pressures developed in the engine cylinder will be imposed on the valve throughout the inner face thereof and thereby act to press the valve against its



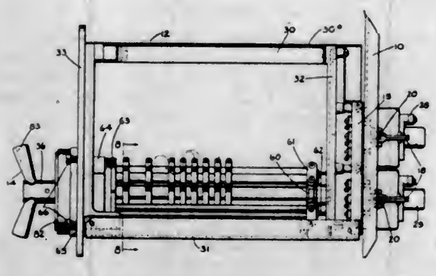
seat throughout the travel of said valve, and means for effecting reciprocation of the valve connecting therewith through a slot covered at all times by said valve.

1,781,177. CURTAIN DRIER AND STRETCHER. FREDA L. HANNUM, Seattle, Wash. Filed May 23, 1928. Serial No. 279,912. 5 Claims. (Cl. 45—24.)



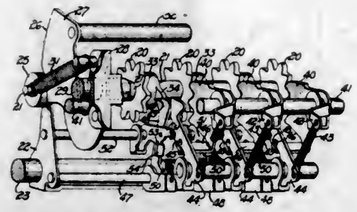
1. A curtain stretcher and drier embodying a perforated shell, and strips of pliable material threaded through the perforations in said shell and forming means to which a curtain may be secured.

1,781,178. ELECTRIC SWITCH. EDWARD M. HEWLETT and WALDO W. WILLARD, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed Mar. 23, 1926. Serial No. 96,854. 8 Claims. (Cl. 200—8.)



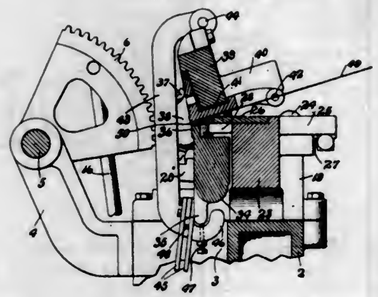
1. In a switching device, a rotary insulating member having a polygonal cross-section, a contact member provided with recesses arranged to fit on one side of said rotary member, and a strap passing around the opposite side of said rotary member having its ends locked in said recesses so as to secure said contact member on said rotary member.

1,781,179. TRANSFER MECHANISM FOR CALCULATING MACHINES. ALLEN A. HORTON, Plymouth, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a Corporation of Michigan. Original application filed Jan. 29, 1926, Serial No. 84,616. Divided and this application filed Aug. 4, 1926. Serial No. 126,955. 4 Claims. (Cl. 235—134.)



1. A transfer mechanism having a tripping element movable to initial carry position by a counter pinion, a latch for holding said element in said position, a transfer element urged in a direction to effect a full carry, and a detent for normally holding said transfer element against movement, said tripping element being movable to release the detent of the transfer element and said transfer element having provisions for releasing the latch of the tripping element when the transfer element moves to effect a carry.

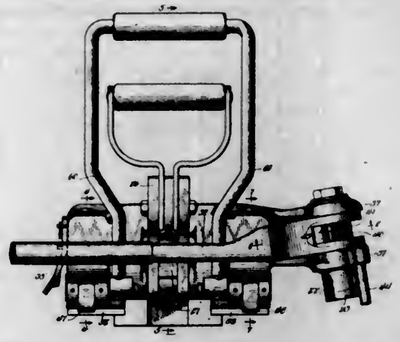
1,781,180. SHEET-METAL FOLDER. FRANK J. JARECKI, Grand Rapids, Mich. Filed Aug. 27, 1928. Serial No. 302,196. 7 Claims. (Cl. 153—16.)



1. In a machine of the class described, a support, a relatively fixed die mounted on said support, a movable die, means for moving the same to bend a plate of sheet metal about the edge of the fixed die, a supporting bar located underneath the edge of the said fixed die, and means actuated by movement of the movable die for exerting pressure at the under side of and at a point between the ends of said supporting bar at the time that the movable die is brought against the sheet metal and the same pressed against the fixed die.

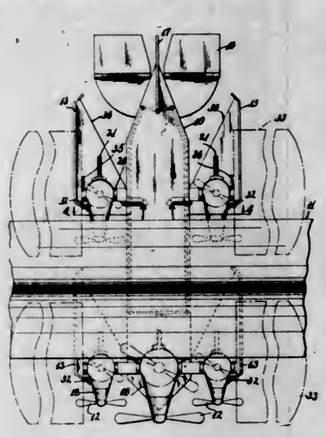
1,781,181. WIRE-TYING MACHINE. THOMAS J. KING, Jr., Chicago, Ill. Filed Nov. 23, 1927. Serial No. 235,135. 23 Claims. (Cl. 140—93.)

1. In a wire tying machine, in combination, a twisting device having a plurality of aligned slots therein for the reception of two lapped ends of a wire, and a tensioning ratchet having a slot therein for the reception of one of the ends, said ratchet being rotatable to tension the wire



and being canted with respect to the line of slots in the twisting device whereby to cause the ends to move into the slots as far as possible upon rotation of the ratchet.

1,781,182. SAFETY AEROPLANE. JOSEPH LEOPOLD, New York, N. Y. Filed Mar. 15, 1929. Serial No. 349,722. 4 Claims. (Cl. 244—15.)

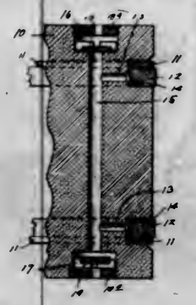


1. In combination with a safety aeroplane having a flying machine body with wings, a plurality of motor driven propellers movably mounted for action horizontally to the front or vertically upwards, means for moving said propellers from one to the other of said positions, reserve wings hingedly mounted at their front edges on the casing of said motor driven propellers so as to be capable of assuming positions in the vertical and extending rearwards in the positions of the propellers for action horizontally to the front and to be capable of assuming positions in the horizontal and extending outwards in the position of the propellers for action vertically upwards, and means for holding the reserve wings in the first positions, of means for urging the reserve wings into the second positions, and means for manually moving the reserve wings from the horizontal to the vertical while the propellers are positioned for action in the vertical.

1,781,183. SEALING PISTON RING. CHESTER L. LEWIS and HARRY O. SETTERBERG, Portland, Oreg. Filed Apr. 19, 1928. Serial No. 271,231. 2 Claims. (Cl. 74—109.)

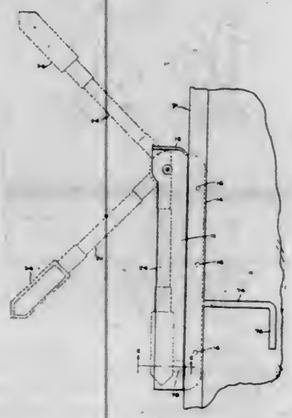
1. In combination, a cylinder and a piston therein provided with a circumferential groove, a piston ring seated

in said groove, and a sealing ring seated on the pressure side of the piston ring, the sealing ring having lesser diameter than the piston ring, the circumferential edge and the top of the sealing ring being exposed to the pressure



in the cylinder, the piston ring being provided with a scarf preventing substantially the passing of the pressure to the inner side of the piston ring, and means adapted to permit the pressure entering behind the piston ring to escape into the body of the cylinder below the piston ring.

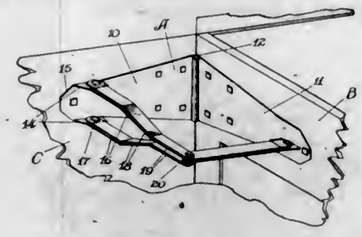
1,781,184. SIGNAL FOR AUTOMOBILES. SEBASTIAN MACK, Minneapolis, Minn. Filed May 28, 1928, Serial No. 281,127. Renewed Apr. 18, 1930. 3 Claims. (Cl. 116—54.)



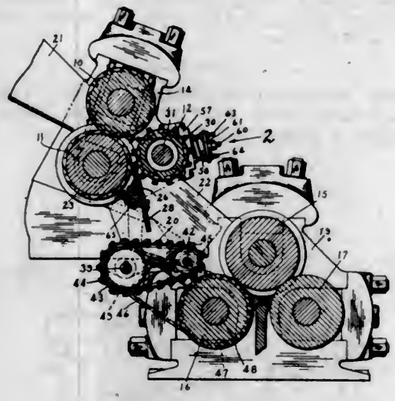
1. A signal for automobiles comprising a support adapted to be secured to a corner post of the automobile, a signal arm pivoted at one end to said support, a link attached at one end to said arm adjacent the pivoted end of the latter, a crank arm attached to the other end of said link, said crank arm having an angular opening whose margin is constituted by knife edges, and an operating rod whose outer end is shaped to fit said angular opening in engagement with said knife edges.

1,781,185. CHECK HINGE. WALLIE C. MANGEL, Fairfax, Minn. Filed Oct. 24, 1927. Serial No. 228,295. 1 Claim. (Cl. 16—128.)

A check hinge including, plate members hingedly connected together, one of said plate members having a pair of ears projecting from the free end thereof, the other of said plate members having a single ear projecting therefrom, pairs of parallelly extending brace retarding arms pivotally and frictionally connected to said pair of ears on one of said hinge plates, a pair of brace retarding arms frictionally and pivotally connected to said ear on the other of said hinge plates, all of said retarding arms being pivotally and frictionally connected together centrally with said hinge plates to provide a reinforced hinge with said brace retarding arms.



1,781,186. CANE-CRUSHING APPARATUS. FRANCIS MAXWELL, Wallington, England. Filed June 23, 1927. Serial No. 200,893. 7 Claims. (Cl. 100—47.)



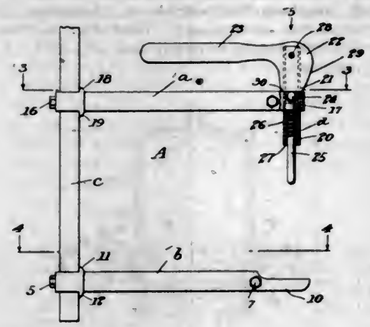
1. In cane crushing apparatus, a roller having a groove extending lengthwise thereof, a series of spacing blocks slidably retained to the roller in the groove therein, teeth between said blocks, said teeth being of increased width at their bottoms in the direction of the spacing blocks, said spacing blocks being shaped to fit the lower ends of the tooth and adapted to engage said teeth to secure them to said roller.

6. A tooth for a cane working roller, said tooth having a base portion and a blade portion, said base portion having longitudinally extending straight edges and tapering sides, said blade portion having longitudinally extending cutting edges and sides, the cutting edges of said blade portion merging into the straight edges of said base portion, and the sides of said blade portion merging into the tapering sides of said base portion.

1,781,187. VALVE LIFTER. CHARLES E. NEGLEY, Los Angeles, Calif. Filed Apr. 8, 1927. Serial No. 182,009. 1 Claim. (Cl. 29—86.3.)

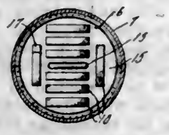
A valve lifter of the character disclosed including a supporting bar, a lift bar movable thereon, said lift bar comprising a pair of members adapted to separate adjacent

one end and formed to surround the supporting bar at the opposite end, means for regulating the degree of separa-



tion of said two members of the lift bar, and further means for guiding movement of the lift bar upon the supporting bar.

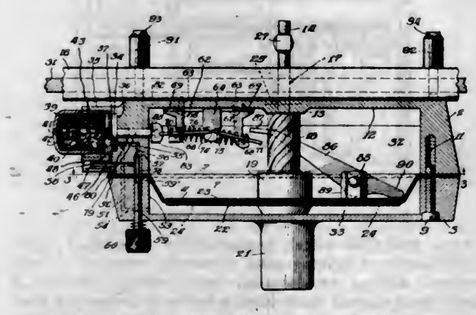
1,781,188. TREATING MATERIAL DISPERSION. JAMES R. NEILSON, Toledo, Ohio, assignor of one-half to Earl M. Morley, Delta, Ohio. Filed Aug. 1, 1929. Serial No. 382,766. 7 Claims. (Cl. 252—6.)



1. The method of dispersing sub-divided treating coating material comprising disseminating the material in a body of a surface area remaining approximately constant while dissolving away, and subjecting such area to pressure dispersing solvent attack throughout its area.

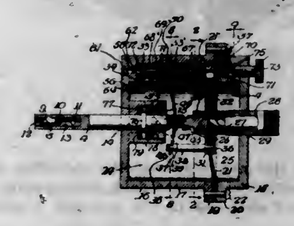
6. The method of dispersing sub-divided coating material comprising disseminating an active agent in acacia and brown sugar, molding said agent, acacia and brown sugar as a plastic mass by the addition of water to provide a definite form body of a surface area remaining approximately constant while dissolving away, and subjecting such area to pressure multiple baffle dispersing water attack throughout its area.

1,781,189. MOTOR FOR OPERATING WINDSHIELD CLEANERS. JOHN L. NILSON and JOHN F. PRINCE, Chicago, Ill. Filed June 6, 1927. Serial No. 196,700. 2 Claims. (Cl. 121—48.)



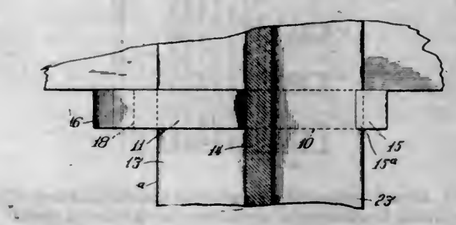
1. A windshield cleaner actuating mechanism embodying a casing, an actuator member movable therewith, a valve seat, ports leading from said seat to the opposite side of said member, a suction port, a valve operable to alternately connect the first said ports with the said suction port, a pivotally mounted member operatively connected with the valve to oscillate the valve, a lever pivotally connected intermediate its ends with said actuator member and bodily movable therewith, one end of said lever operating upon said pivotally mounted member for moving the latter about its pivot to actuate the valve in one direction, the other end of said lever contacting with said actuator member for maintaining the lever against movement about its pivot when the first said end thereof engages and actuates said pivoted member, a spring for assisting in the actuation of said pivotally mounted member, and means for actuating the valve in the other direction.

1,781,190. WINDSHIELD-CLEANER MOTOR. JOHN L. NILSON and JOHN F. PRINCE, Chicago, Ill. Filed June 6, 1927. Serial No. 196,701. 7 Claims. (Cl. 121—48.)



1. In a windshield cleaner operating mechanism, means for swinging the cleaner arm, said means embodying a casing, a screw shaft therein, a nut which co-operates with said shaft to rotate it, a valve, and a snap over mechanism for operating the valve, said snap over mechanism being operatively connected with the said nut and valve.

1,781,191. RAIL ANCHOR. FREDERICK A. PRESTON, Lake Forest, Ill., assignor to The P & M Company, Chicago, Ill., a Corporation of Illinois. Filed July 2, 1928. Serial No. 289,881. 15 Claims. (Cl. 238—330.)

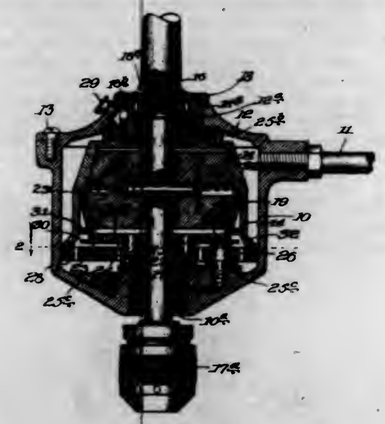


1. A rail anchor comprising an under rail portion for bearing against the bottom surface of the rail, a jaw at one end resiliently bearing against the vertical web of the rail, and an inwardly projecting jaw at the other end of said under rail portion adapted to bear against the edge portion of the rail base at the opposite side of the rail.

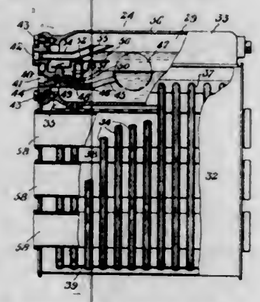
1,781,192. TAPPING ATTACHMENT. HARRY G. PROCUNIER, Chicago, Ill., assignor to Procunier Safety Chuck Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 11, 1929. Serial No. 346,137. 11 Claims. (Cl. 74—59.)

1. A tapping attachment comprising a hollow casing having means for preventing rotation thereof, a vertical spindle journalled in the upper portion of said casing and carrying a bowl having an inner conical friction surface, a double cone member lying beneath said bowl and adapted to frictionally engage the conical portion thereof, a chuck shaft journalled in the lower portion of said

casing and secured to said cone, a conical cup beneath the cone and journalled to rotate about the axis of the chuck shaft and having an inner conical friction surface adapted to engage with said cone member, said bowl overhanging said cup and substantially enclosing the same, and means interposed between said overhanging bowl and cup for driving said cup in the opposite direction from said bowl.



1,781,193. REFRIGERATING APPARATUS. JOHN R. REPLOGLE, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Original application filed Feb. 28, 1921, Serial No. 448,331, and in Canada Feb. 11, 1922. Divided and this application filed June 10, 1927. Serial No. 197,942. 33 Claims. (Cl. 62—95.)

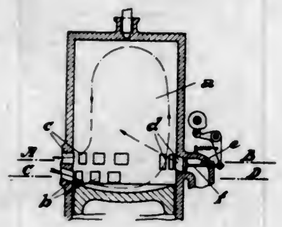


4. In a refrigerating apparatus, the combination of a vaporizer comprising an expansion chamber and a plurality of pipe loops depending therefrom each with one end opening into said expansion chamber at a higher level than its other end; and means for maintaining a level of liquid refrigerant in said expansion chamber above the uppermost ends of said pipe loops.

15. In a vaporizer for refrigeration apparatus, the combination of an expansion chamber having an inlet opening therein for the admission of liquid refrigerant thereto and an outlet opening for the passage of vaporous refrigerant therefrom; and a baffle plate located within the said expansion chamber and directly over the said inlet opening for preventing the incoming liquid refrigerant from boiling into said outlet opening.

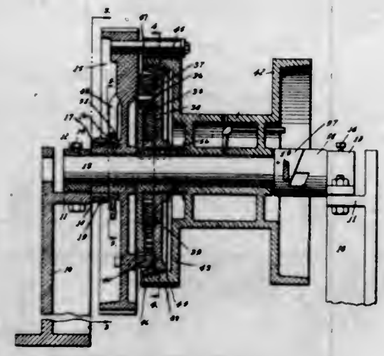
22. In a vaporizer for refrigeration apparatus, the combination of an expansion chamber; a removable plate for closing an opening in a wall of said expansion chamber, said plate having openings therethrough for the passage of liquid refrigerant to and vaporous refrigerant from said expansion chamber; and a float valve mechanism carried by said plate for controlling the amount of liquid refrigerant entering into said expansion chamber.

1,781,194. TWO-CYCLE ENGINE WITH SLOT SCAVENGING AND AIRLESS FUEL INJECTION. WILHELM RIEHM, Augsburg, Germany, assignor to Maschinenfabrik Augsburg-Nurnberg A. G., Augsburg, Germany, a Corporation of Germany. Filed Feb. 4, 1929, Serial No. 337,255, and in Germany Feb. 17, 1928. 5 Claims. (Cl. 123—65.)



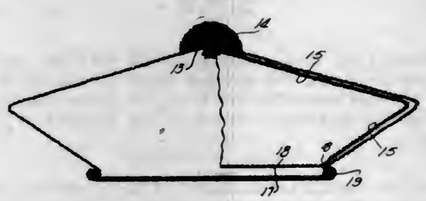
2. A two cycle engine of the class described operating with airless fuel injection, comprising a cylinder having an exhaust port, a scavenging air inlet port, and a piston reciprocable within said cylinder to control said ports, said ports being arranged on the cylinder at one side thereof in adjacent parallel planes so as to cause a flow of scavenging air across, along, and back along the combustion space, and a supplementary port in the cylinder wall arranged angularly with respect to radial directions and at a distance from said inlet and exhaust ports for admitting fluid rotatively to the combustion space to impart a whirling motion to the fluid in the cylinder, said supplementary port being positioned at such a location in the cylinder wall as to be controlled by the piston substantially simultaneously with the control of said exhaust port, and a valve for controlling the flow through said supplementary port and mechanism for operating said valve to open it after the piston has uncovered the said inlet ports.

1,781,195. REVERSIBLE CABLE DRUM. GEORGE T. RONK, Cedar Rapids, Iowa, assignor to Speeder Machinery Corporation, Cedar Rapids, Iowa, a Corporation of Iowa. Filed June 20, 1927. Serial No. 200,134. 6 Claims. (Cl. 254—187.)



1. A reversible winch comprising a support, a shaft fixed therein, a driving gear rotatively mounted on said support, having an internal gear secured thereto, a spider fixed to said shaft having laterally projecting pins, a pinion for each of said pins in mesh with said internal gear, a clutch member rotatively mounted about said shaft and adjacent to said spider, said clutch member being provided with a spur gear also in mesh with said pinions, the clutch member being mounted adjacent to the outer ends of said pins for retaining said pinions in position thereon, said clutch member and said spur gear being slidably mounted on said shaft, a second clutch member designed to engage the first said clutch member upon being moved inwardly, yieldable means between said clutch members for throwing them out of engagement, and means for imparting inward movement to said second clutch member to cause engagement between said clutch members, the clutches being adapted to permit outward movement to cause said spur gear to disengage said pinions, and to provide clearance between the pinion retaining member of said clutch member and said pinion pins for the removal of said pinions.

1,781,196. KNITTED CAP AND PROCESS OF MAKING SAME. ARMIN ROSENBERG, Milwaukee, Wis., assignor to Reliable Knitting Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 13, 1930. Serial No. 428,025. 7 Claims. (Cl. 66—172.)



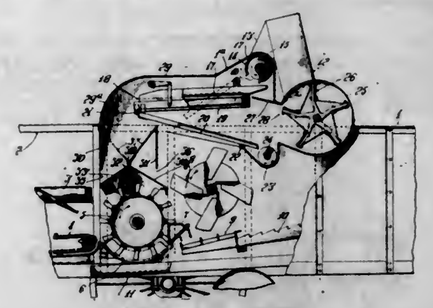
1. The process of forming knitted caps, consisting in knitting a tube in sections, each of sufficient length to form a cap, placing the threads under increased tension near the lower end of each section, knitting a few courses under reduced tension, severing the tube transversely and allowing the lower portion of the section to roll up cylindrically, and then gathering and stitching the other end of the section to form the top of the cap.

1,781,197. SHOE CONSTRUCTION. GEORGE A. SCHROETER, Brooklyn, N. Y., assignor of one-half to Charles E. Heckel, Cincinnati, Ohio. Filed Dec. 4, 1928. Serial No. 323,749. 1 Claim. (Cl. 36—58.5.)



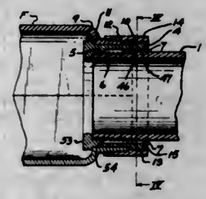
A self-adjusting counter for a shoe, comprising a rigid heel portion, sole and upstanding side portions, the mid portion of the heel having spaced upright slots and each side portion adjacent its free end being provided with an upright slot and a strip of elastic webbing having its mid portion disposed through said slots in the heel and the ends projecting under tension towards the opposite side walls through the slots therein, back again on the inner side of the counter, and fixed to the opposite side walls.

1,781,198. RECLEANER. CHARLES J. SCRANTON, Jr., Peoria, Ill., assignor to Avery Power Machinery Co., Peoria, Ill., a Corporation of Illinois. Filed May 25, 1928. Serial No. 280,438. 15 Claims. (Cl. 130—27.)



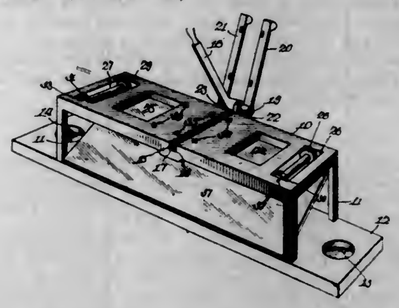
1. In combination in a threshing machine comprising an initial threshing cylinder and associated agitating and separating mechanisms for receiving material delivered from the cylinder, a recleaner, means for delivering the grain from said mechanisms to the recleaner, and shiftable means for delivering the tailings from the recleaner either to the cylinder or in rear thereof to the separating and agitating mechanisms, optionally.

1,781,199. FITTING FOR ELECTRICAL CONDUITS. KLAAS SIXMA, Montclair, N. J. Filed May 7, 1926. Serial No. 107,314. 2 Claims. (Cl. 247—25.)



1. A bushing of general annular shape formed internally with a thread and having cut away portions transverse to the thread for receiving chips and a centering surface at the outer end thereof for bearing on a conduit and externally with means for receiving and positioning a fitting and a centering surface for an annulus adapted to extend over said fitting.

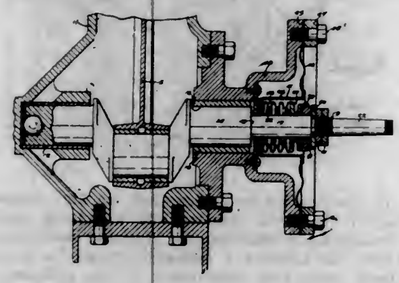
1,781,200. TRIMMER FOR FILMS. SAM SPIROS, Chicago, Ill. Filed Nov. 20, 1926. Serial No. 149,753. 4 Claims. (Cl. 154—42.)



4. In a device of the class described, the combination with a table having a pair of aligned openings therein, a reflector mounted to direct the rays of light through

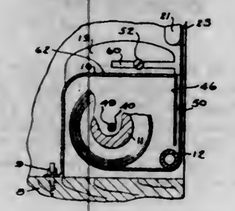
said openings, pins interposed between said openings to receive a film, and a cutting member mounted centrally of said table to cooperate with a groove provided in said table, whereby said cutting member may cut the film transversely of its length.

1,781,201. JOURNAL-BEARING SEAL. CHARLES C. SPREEN, Detroit, Mich. Filed Dec. 6, 1926. Serial No. 152,844. 1 Claim. (Cl. 286—11.)



The combination with a casing having a shaft rotatably mounted in a journal formed therein, an annular extension disposed in spaced relation surrounding the shaft beyond the journal, a flexible annular diaphragm secured to an outer extremity of the extension, an elongated sleeve secured at one end to an interior portion of the diaphragm, a flexible bellows disposed within the sleeve and secured to the opposite end thereof, and means at the opposite end of the bellows for rotatably associating the latter with a portion of the shaft.

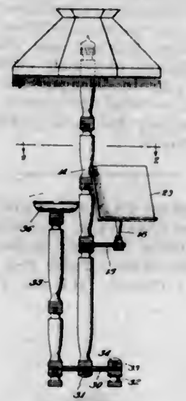
1,781,202. WINDOW SCREEN. MOSES E. STERN, New York, N. Y. Filed Nov. 2, 1927. Serial No. 230,463. 4 Claims. (Cl. 156—39.)



1. A window screen comprising end plates for fitting a window frame with upper and lower sills and having rollers positioned between said end plates; in which, the end plates have straight edges positioned against one of the sills and attached to said frame by means of a screw passing through a horizontal open ended slot in each of said plates for adjusting said plates toward and away from the window.

1,781,203. COMPOSITE STRUCTURE. BENJAMIN TELEKI, Chicago, Ill., assignor of one-half to Leslie L. O'Bryan, Chicago, Ill. Filed Apr. 12, 1926. Serial No. 101,461. 2 Claims. (Cl. 211—148.)

1. A structural assembly of the class described comprising a main supporting standard constructed of a plurality of individual sections joined end to end, a base upon which said standard is mounted, said sections being joined together by co-operating threaded means at the ends thereof comprising a threaded pin on the end of one of each pair of adjoining sections, and a threaded socket on the adjacent end of the other of each pair of adjoining sections, a plurality of arm units each having toward one end thereof an extension unit secured thereto and each of said arm units having an opening at its other end positioned to receive therethrough the threaded pin

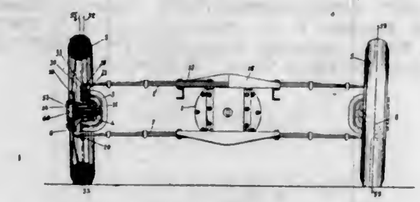


connecting the section having the pin with the section having the socket, and threaded means co-operating with the threaded element on the lower end of the lowermost section for detachably connecting said standard to said base.

1,781,204. MOLDABLE PRODUCT AND METHOD OF PRODUCING THE SAME. SAMUEL F. WALTON, Hamburg, N. Y., assignor to The Exolon Company, Blasdell, N. Y., a Corporation of Massachusetts. Filed Apr. 23, 1928. Serial No. 272,349. 7 Claims. (Cl. 106—22.)

1. A moldable product, comprising a mixture of particles of finely divided slag, having a siliceous glaze, including a metallic oxide of definite color, and a phenol resin in bonding proportion thereto.

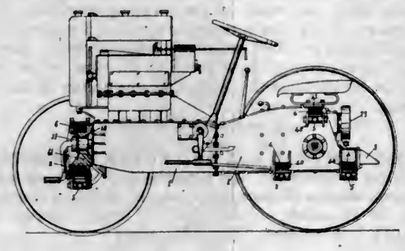
1,781,205. FRONT-AXLE ASSEMBLY. JAMES A. WRIGHT, Montreal, Quebec, Canada. Filed Jan. 8, 1927. Serial No. 159,909. 1 Claim. (Cl. 280—96.3.)



In a stub axle assembly, the combination of a transverse spring suspension with a disc wheel having a sleeve hub, a wheel carrier comprising an arched frame having transverse bearings projecting outwardly from its ends to which the looped ends of the springs are journalled, and a stub axle mounted in the sleeve hub of the wheel having its inner end arched outwardly over the sleeve hub, and pivot pins on which the adjacent ends of the two arches are pivoted to provide a vertical pivot to the stub axle and wheel.

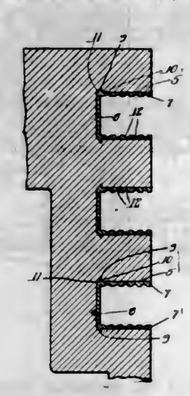
1,781,206. TRACTOR. JAMES A. WRIGHT, Montreal, Quebec, Canada. Filed Dec. 7, 1927. Serial No. 238,398. 3 Claims. (Cl. 280—112.)

3. In a vehicle having transverse spring suspension a frame, a trunnion centrally mounted at its front end, a spring bearing yoke block pivotally mounted on the trunnion, having transverse seats above and below, springs seated therein, side lugs to the yoke block adjacent the



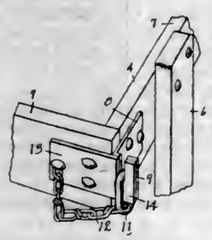
spring seats, radius rods pivoted thereto, the outer ends of the springs and radius rods being coupled to wheel carriers and wheels journalled on the wheel carriers.

1,781,207. PISTON. ANSEL S. WYSONG, Chicago, Ill., assignor of one-half to Harry L. Wells, Chicago, Ill. Filed Oct. 2, 1929. Serial No. 396,810. 2 Claims. (Cl. 74—108.)



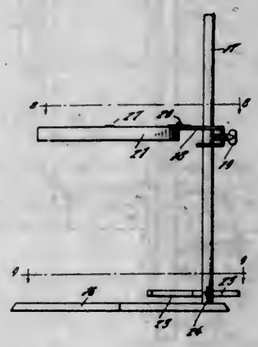
1. A liner for a ring groove of a piston comprising a channel-shaped member adapted to fit within the groove, the side walls of the channel being flared so that they will be compressed when fitted in the groove to make close contact with the side walls of the groove.

1,781,208. TRUCK BODY. DANIEL B. YOUNGBLOOD, Caledonia, Mich. Filed Dec. 3, 1928. Serial No. 323,242. 5 Claims. (Cl. 296—36.)



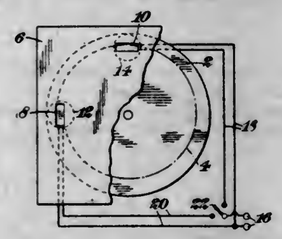
1. In a structure of the class described, the combination with a truck bed provided with stake pockets, of a plurality of wall sections provided with stakes engageable in said pockets with the wall sections in end to end relation, coacting pairs of fastener members mounted on the ends of adjacent side sections and provided with outwardly projecting arms lying side by side and having upwardly facing registering slots therein, and a coupling link engageable with said slots and adapted to swing over the bottom edges of the arms, said link being of such length as to be retained in said slots by its engagement with the bottom edges of the arms.

1,781,209. DEVICE FOR MAKING DESIGNS ON CAKES AND THE LIKE. TONY BARBERA, Trinidad, Colo., assignor to Designograph Company, Trinidad, Colo., a Corporation of Colorado. Filed Mar. 11, 1929. Serial No. 346,048. 2 Claims. (Cl. 101—126.)



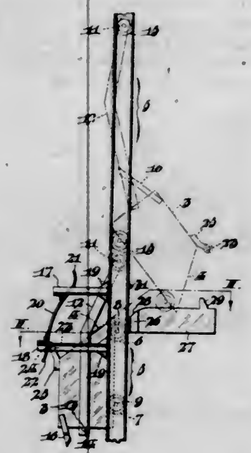
1. A device for ornamenting confections, comprising a support adapted to receive the confections, a frame, means for mounting the frame and support for movement toward and away from each other, a second frame removably mounted in the first mentioned frame, screen stretched across the opening in said second frame, said screen having portions thereof covered to leave designs, said support having a graduated scale on the top supporting surface thereof, and a confection engaging member mounted above said support for movement thereacross and cooperating with said graduated scale for centering the confection with respect to the design in said screen, said first mentioned means including means for movably mounting said confection engaging member above said support, and for retaining said confection engaging member in a predetermined position.

1,781,210. TELEVISION OR LIKE SYSTEM AND APPARATUS. JOHN LOGIE BAIRD, London, England, assignor to Television Limited, London, England, a British Company. Filed Apr. 8, 1929, Serial No. 353,636, and in Great Britain May 15, 1928. 3 Claims. (Cl. 178—6.)



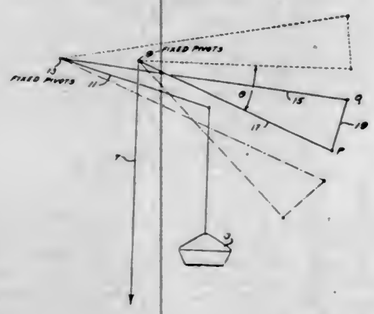
1. In apparatus for use in transmitting light images, the combination with an exploring device, of an opaque screen disposed adjacent said device, spaced portions of said screen being constructed to permit passage of light through the same and through said exploring device to frame the image, means for associating electrical and light impulses, and means for rendering said last named means operative adjacent one only of said spaced portions on the screen.

1,781,211. SKIP-BUCKET DISCHARGE MECHANISM. ROBERT H. BEAUMONT, Radnor, Pa., assignor to R. H. Beaumont Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 6, 1928. Serial No. 267,871. 2 Claims. (Cl. 214—120.)



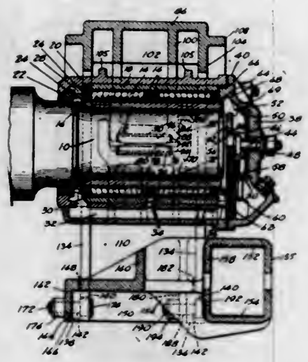
1. In skip-bucket discharge mechanism of the type described, a skip-bucket with upper and lower pairs of wheels on common axes, a suspension bail pivoted to the bucket bottom intermediate the front and rear walls thereof and having a pair of similar wheels at its suspension end, a track with which all of said wheels normally engage in guiding travel of the bucket, said track having co-planar cut-outs affording entry to and exit from offset discharge rails each of which embodies a vertical abutment, a stationary offset arcuate cam path supported by the track, and a roller on the bucket co-operative with the cam path serving to move the bucket upper wheels from the track onto the discharge rails for impact with and retraction from the abutments aforesaid in effecting automatic inversion of the bucket incident to outward lateral displacement of its mouth relative to the track and limited turning movement about the axis of the lower pair of wheels thereon.

1,781,212. MEASURING INSTRUMENT. EDGAR H. BRISTOL, Foxboro, Mass., assignor to The Foxboro Company, Foxboro, Mass., a Corporation of Massachusetts. Filed Sept. 10, 1927. Serial No. 218,603. 8 Claims. (Cl. 74—5.)



1. In an instrument of the class described a responsive device having a linear movement, a shaft crank driven thereby, a swinging arm the movement of which renders available the action of said device, and a linkwork connection for moving the arm on rotation of said shaft the joints of which are solely of the rotating or pivotal type, the elements of the linkwork being correlated and relatively proportioned to effect an angular displacement of such arm in approximately fixed ratio to the sine of the displacement of such crank throughout the range of the instrument.

1,781,213. JOURNAL BOX AND FRAME CONNECTION. RICHARD J. BRITTAIN, Jr., Bloomfield, N. J., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Dec. 2, 1929. Serial No. 411,011. 19 Claims. (Cl. 105—223.)



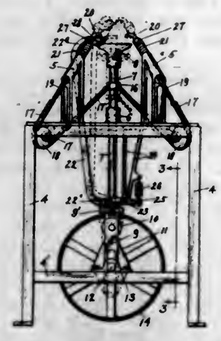
11. In a device of the character described, a journal box, an axle journalled in the box, the opposite sides of the box having supporting surfaces projecting outwardly near axle level, said surfaces being crowned longitudinally of the box, a saddle extending over the box and having depending legs at opposite sides of the box, and the legs having outwardly extending frame engaging members and supporting surfaces extending inwardly near axle level and supported on the crowned surfaces of the box; substantially as described.

1,781,214. METHODS OF PREPARING ABSORBENTS FOR LIQUID-OXYGEN EXPLOSIVES AND RESULTING ABSORBENTS AND EXPLOSIVES. HERBERT C. BUGBIRD, Richmond, N. Y. Filed Sept. 28, 1925. Serial No. 59,042. 9 Claims. (Cl. 52—1.)

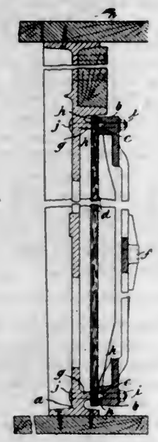
1. The method of preparing a liquid oxygen absorbent, which comprises filling the external voids between the relatively coarse particles of a mass of liquid oxygen absorbent material, comprising leached carbonized lignin residues, with relatively fine particles of a liquid oxygen absorbent material to form a complex liquid oxygen absorbent material.

1,781,215. MACHINE FOR HUSKING COCONUTS. GENARO CELAYA, Los Angeles, Calif. Filed Dec. 17, 1929. Serial No. 414,772. 9 Claims. (Cl. 146—7.)

1. In a machine of the character referred to, a supporting structure, a receiving cup for the article, means for moving said receiving cup in one direction, knives positioned to slash said article in said cup as said article is moved along said knives, hook members movably mounted to catch into said article between the slashes made by said knives, and operating connections for moving said hook members in the opposite direction to that of said article, whereby to pull from said article the slashed outside thereof.



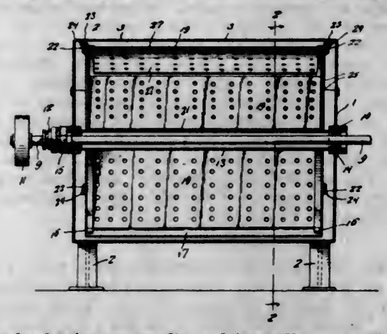
1,781,216. PIANO. JOHN HENRY CLARK, Whetstone, England. Filed July 15, 1929, Serial No. 378,348, and in Great Britain Sept. 18, 1928. 3 Claims. (Cl. 84—184.)



1. In a piano, a metal soundboard frame comprising front and rear frame members, a rib projecting laterally from one of said frame members, a rim projecting laterally from the other of said frame members, said rim being of greater width than said rib and having a groove therein adapted to aline with said rib, a soundboard having its marginal portion disposed between the rib and the rim of the respective frame members, and means for drawing the frame members together to clamp the soundboard therebetween.

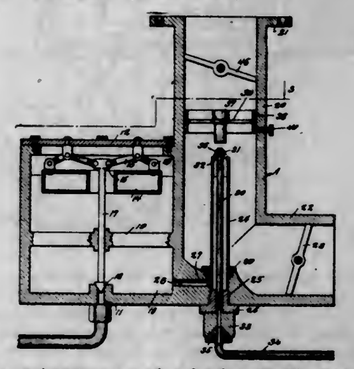
1,781,217. CYLINDER WASHING MACHINE. JOHN R. CLOVER, Enid, Okla. Filed Apr. 3, 1929. Serial No. 352,130. 1 Claim. (Cl. 68—18.)

In a washing machine, a casing, a frame mounted for rotation within the casing and including a driven hub portion that extends axially through the casing, angle iron arms extending radially from the hub adjacent the respective ends thereof, rings each encircling the outer ends of one of the arm flanges, said arms being arranged in pairs, a plurality of perforated clothes receiving receptacles, means for detachably securing each of said receptacles between a pair of arms and the opposed rings, there being a space between the adjacent receptacles to provide pockets, and a pair of scoops for each pocket for directing washing fluid thereinto, each comprising a pair



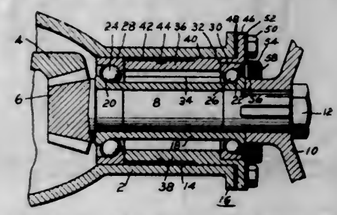
of blades having outwardly and inwardly converging portions, said last named portions being each connected at the opposite ends to the outer ends of the other flanges of the radial arms.

1,781,218. CARBURETOR. AMBROSE C. DE LANGE, Kalispell, Mont. Filed Mar. 10, 1927. Serial No. 174,377. 2 Claims. (Cl. 261—62.)



1. In a carburetor, a casing having an air way therethrough, a compressed air feed pipe leading into said airway, a nozzle on said pipe disposed axially within said way, a plurality of fuel tubes grouped about said nozzle, the tubes being of different points relative to the outlet of the nozzle, the tube having the smallest diameter terminating nearest the outlet of the nozzle and the tube having the greatest diameter terminating furthest from the outlet of the nozzle.

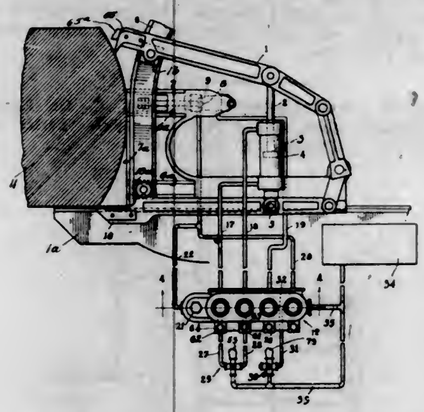
1,781,219. MOUNTING FOR PINION SHAFT OF REAR AXLE. THOMAS C. DELAVAL-CROW, Bristol Conn., assignor to The New Departure Manufacturing Company, Bristol, Conn., a Corporation of Connecticut. Filed Dec. 14, 1928. Serial No. 326,049. 6 Claims. (Cl. 308—189.)



1. In an axle construction having a pinion shaft subject to end thrust, a tubular carrier projecting from

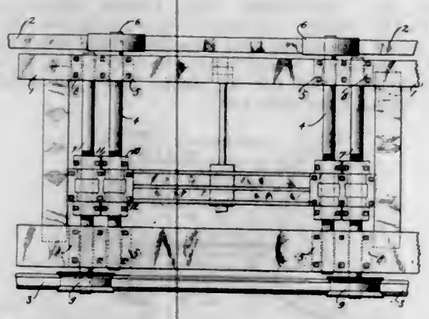
the axle and having a smooth unbroken bore extending to its open end, a pinion at one end of the shaft and a driving member at the other, a long sleeve fixed on the shaft and extending from the pinion to the driving member, an angular contact raceway at the end of the sleeve adjacent to the pinion and an angular contact raceway at the end of the sleeve adjacent to the driving member, rolling elements running on the raceways, a pair of outer race rings mounted to slide axially as a unit along the bore wall, means for holding the outer race rings in a constant spaced relation with an initial thrust load on the rolling elements, and means for axially adjusting the assembled bearing structure within the bore of the carrier; substantially as described.

1,781,220. DEVICE FOR CONTROLLING THE TRAVEL OF TONG DOGS FOR SAWMILL CARRIAGES. ERVIN A. FERRIS, Westwood, Calif. Filed June 18, 1928. Serial No. 286,399. 7 Claims. (Cl. 143—125.)



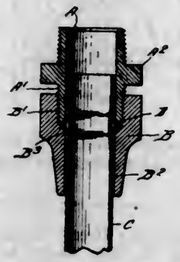
1. The combination with a saw mill carriage having a log or cant receiving knee, of a dog, means for moving the dog in a vertical plane in either direction and for holding it in adjusted position, a stanchion slidable toward and from the face of the knee, and carrying the dog therewith, means for moving said stanchion in either of said directions, said means cooperating with said first named means for retarding the downward movement of said dog when said stanchion is in a retracted position.

1,781,221. DIFFERENTIAL TRUCK FOR SAWMILL CARRIAGES. ERVIN A. FERRIS, Westwood, Calif. Filed Oct. 15, 1928. Serial No. 312,651. 1 Claim. (Cl. 143—105.)



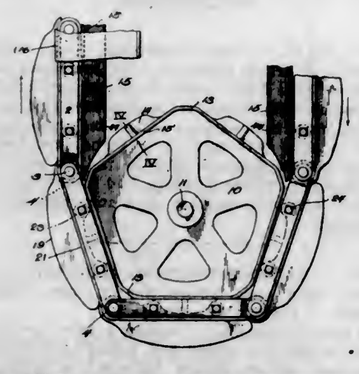
A differential truck comprising a frame, bearings carried by said frame, axles rotatably and slidably mounted in said bearings, wheels having V-shaped grooves, and being mounted on certain of said axles, flat rimmed wheels mounted on the other axles and being disposed on the opposite side of the frame, a casting, means for rigidly positioning said casting with reference to said frame, and means for adjusting the axles relative to said casting.

1,781,222. PIPE JOINT OR CONNECTION. ARTHUR I. FISCHER, Cleveland Heights, Ohio, assignor to The Republic Brass Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 9, 1928. Serial No. 268,529. 1 Claim. (Cl. 285—123.)



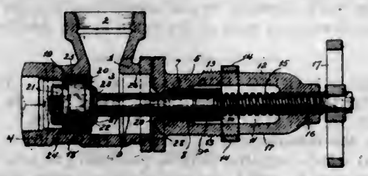
In a pipe joint the combination of a pipe, a coupling member slidably receiving said pipe, said coupling member having a counterbore providing a shoulder, a non-divided metallic clamping and sealing ring channel shaped in cross section with both edges projecting inwardly closely fitting about said pipe and seated in said counter-bore, said ring being of a metal materially harder than said pipe, a gland member about said pipe extending into said counterbore, and means of said coupling member and gland member whereby they may be forced together to compress said metallic ring and force both edges of the same into said pipe, said pipe when in sealed condition having a depressed band portion extending inwardly and receiving said ring, said band being of a width as great as the width of said ring and receiving the same in tight sealing relation.

1,781,223. ENDLESS SECTIONAL WATER SCREEN. FRANCIS P. GARY, Milwaukee, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 12, 1928. Serial No. 318,964. 12 Claims. (Cl. 210—175.)



1. An endless sectional water screen comprising parallel chains and screen baskets secured to the chains, characterized by such baskets having projecting flanges adapted to form trash seals at the sides of the screen, and means carried by said flanges for connecting them with the chains.

1,781,224. VALVE. HENRY F. GILG, Pittsburgh, Pa. Filed Feb. 2, 1929. Serial No. 336,997. 7 Claims. (Cl. 251—27.)

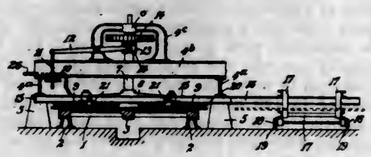


2. In a piston type valve, a casing having an inlet, an outlet, a bore, and a valve seat in the bore between the inlet and the outlet, a valve stem extending into the bore, and a valve head mounted on the stem and including compression members and an expansible packing ring arranged between the same, one of said compression members being engageable with the seat, and the other being slidable on the stem and adapted under fluid pressure within the bore, to move toward the seat engaging member when the latter is in engagement with its seat, and to thereby expand the packing ring radially into snug engagement with the bore of the casing.

1,781,225. PROCESS FOR THE PURIFICATION OF TRIARYL PHOSPHATES. WILFRID GIBSON and CHARLES ROYSTON HENSHAW, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, Westminster, England. Filed Oct. 23, 1929, Serial No. 401,976, and in Great Britain Oct. 24, 1928. 3 Claims. (Cl. 260—98.)

1. A process for the manufacture of a purified triaryl phosphate which comprises treating a crude triaryl phosphate with oleum of about 20% free sulphur trioxide content.

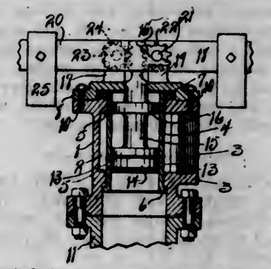
1,781,226. PROCESS OF AND APPARATUS FOR WASHING OFF THE FELTS OF POLISHER RUNNERS IN GLASS-POLISHING APPARATUS. JAMES HARRIS GRIFFIN, St. Helens, England, assignor to Pilkington Brothers Limited, Liverpool, England. Filed June 17, 1926, Serial No. 116,524, and in Great Britain July 7, 1925. 1 Claim. (Cl. 51—109.)



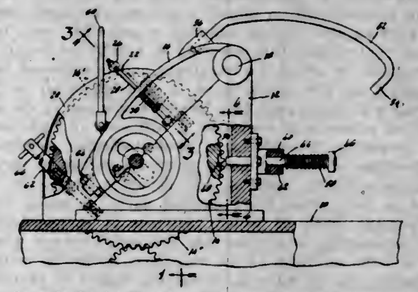
The combination with a plurality of successively mounted polishing heads and a plurality of traveling polishing tables movable beneath said heads, of tracks disposed parallel to the path of movement of said tables, a pair of tracks disposed adjacent to each head and in a plane above the surface of the tables, a truck on the first named tracks, a wheeled table on said truck and movable to the second-named tracks into position between the polishing head and the first-named tables when the former is moved vertically upward clear of the table, and means on said wheeled table for cleansing the polishing heads.

1,781,227. PRESSURE-RELIEF DEVICE. CLYDE D. HELM, Fort Worth, Tex. Filed Sept. 15, 1928. Serial No. 306,254. 6 Claims. (Cl. 137—53.)

1. A pressure relief device comprising a casing having intake and discharge ports, a cylinder mounted in said casing, said casing having an annular cavity therein communicating with said discharge port, means for locking said cylinder in said casing including an interior flange in said casing and an exterior flange on said cylinder and a nut screwed on said cylinder and clamping said flanges together, said cylinder having ports communicating with said cavity, a piston mounted in said cylinder and adapted to open and close said cylinder ports automatically for relieving excessive pressure in a supply line and conserving the liquid, and means for regulating the movement of said piston.



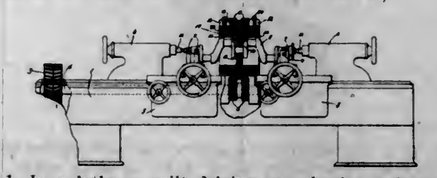
1,781,228. LATHE FOR TURNING CRANK SHAFTS. HERMAN O. HESS, Saginaw, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed July 14, 1927. Serial No. 205,747. 26 Claims. (Cl. 82—9.)



1. In a lathe having a split gear, means for separating one half of the gear from the other, and means for preventing the nonseparable gear half from rotating comprising a plunger extending through the frame of the lathe, resilient means tending to urge said plunger away from said non-separable gear half, and an arm attached to said first named means and adapted to force said plunger into engagement with said nonseparable gear half when said removable half is separated from said stationary half.

26. In a lathe having a gear comprising a plurality of sectors, means for separating one sector from the other, a bar adapted to engage said separable sector, resilient means acting on said bar to cause it to engage said separable sector when moved to prevent its rotation, a plunger adapted to engage said non-separable sector to prevent its rotation when said separable sector is moved, and resilient means urging said plunger away from said stationary sector.

1,781,229. LATHE FOR TURNING CRANK SHAFTS. HERMAN O. HESS, Saginaw, Mich. Filed Sept. 18, 1929. Serial No. 393,778. 22 Claims. (Cl. 82—9.)

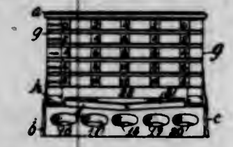


1. In a lathe, a split driving gear having a laterally extending rim, flanges projecting from either side of said

gear, and hinged split steady-rests serving as bearings for said flanges and extending under and contacting with the rim of the gear.

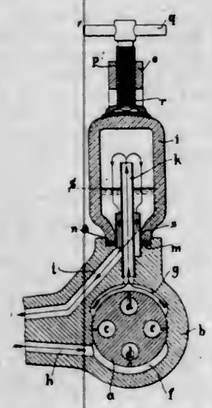
14. In a crankshaft lathe of the center drive type, a split gear member comprising gear sectors, bearing portions at both sides of said sectors, and a split bearing member including sets of bearing sectors conforming to the bearing portions on said gear sectors, said bearing sectors adapted to be positioned on said gear sector bearing surfaces and provided with annular means which laterally interfit with said gear sectors.

1,781,230. APPARATUS FOR PLAYING GOLF IN RESTRICTED SPACES OR INDOORS. HENRY HILL, Paignton, England. Filed Feb. 27, 1929, Serial No. 348,042, and in Great Britain Nov. 13, 1928. 6 Claims. (Cl. 273—87.)



6. In apparatus for playing golf in a restricted space, the combination with a substantially horizontally disposed course-board, a substantially vertically disposed score-board provided with a plurality of rows of spaced numerals forming also vertical columns of numerals, each horizontal row of numerals referring to a different imaginary instrument by which the imaginary ball is supposed to be propelled on the course-board, a slope provided with a plurality of holes, each hole located below one of the said vertical columns of numerals, a ball and an instrument for propelling the ball, of a stroke-indicator comprising a plurality of lever-members pivoted together to form a lazy-tongs device, some of said members which are parallel to each other being marked with the name of an instrument, each of which instruments corresponds to that designating one of the said horizontal rows of numerals and the members of the lazy-tongs device, so marked, indicating the position in which the ball is to be placed prior to being struck by the said instrument substantially as described.

1,781,231. ARTIFICIAL-SILK-SPINNING MACHINE. PAUL HILLEBRAND, Werdohl, Germany, assignor to Firm Werdohler Pumpenfabrik Paul Hillebrand, G. m. b. H., Werdohl, Germany. Filed Jan. 28, 1926, Serial No. 84,407, and in Germany Mar. 4, 1925. 3 Claims. (Cl. 18—8.)

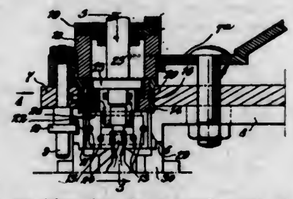


1. In a silk spinning apparatus, the combination with a spinning liquid supply pump, and a spinning nozzle, of a pressure equalizing chamber disposed between the pump and nozzle, said chamber having an inlet communicating with the pump and serving to deliver the liquid into the chamber at or above the normal working level of the liquid in the chamber, and said chamber having a liquid discharge outlet leading to the nozzle from a point below the normal working level of the liquid in the chamber.

1,781,232. MAKING PORTLAND CEMENT. FREDERICK W. HUSER, Riverside, Calif. Filed Mar. 19, 1930. Serial No. 437,277. 5 Claims. (Cl. 106—25.)

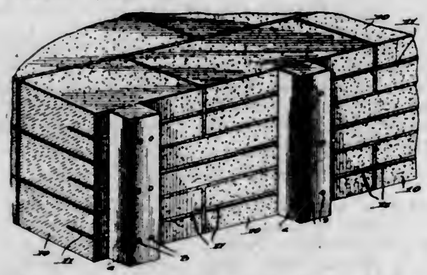
1. In the manufacture of Portland cement from a raw material which contains calcium phosphate in substantial amounts and in which the mineralizing components are in too small amount to give a good cement by burning with argillaceous material at usual cement burning temperature and pulverizing, the herein described improvement which comprises adding argillaceous material to the said material, and adding an iron oxide material in such amount as to bring the total iron content up to substantially above the chemical equivalent of the phosphate radical content, then burning the mix at the usual cement burning temperature and under conditions capable of converting substantially the entire amount of phosphate radical into iron phosphate while leaving a substantial amount of iron oxide to act as a mineralizing agent for the cement, and thereafter reducing the burned material to a fine powder.

1,781,233. MANUFACTURE OF BLOWN-GLASS ARTICLES. SYDNEY HUNT, Birmingham, England, assignor to John Walker & Sons Limited, London, England, a British Company. Filed Sept. 3, 1927, Serial No. 217,444, and in Great Britain June 22, 1927. 10 Claims. (Cl. 49—18.)



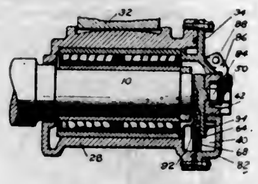
1. In a machine for the manufacture of blown glass articles having a blowing head and a sectional neck mould, the halves of which are pivoted so that they can be opened and closed together; a construction in which the blowing head is furnished with a depending dowel pin located diametrically opposite the pivotal axis of the halves of the mould, and in which the halves of the sectional mould are provided in the neighbourhood of their joint when closed together with means for engaging corresponding means on the dowel pin for the purposes set forth.

1,781,234. CONSTRUCTION UNIT. CHARLES E. JONES, Griffin, Ga. Filed Apr. 18, 1929. Serial No. 356,170. 9 Claims. (Cl. 72—37.)



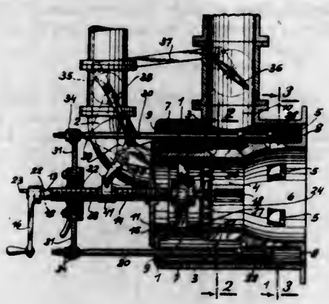
1. A construction unit formed of an ordinarily impenetrable material and having a wedged shaped opening therein for the frictional engagement therein of fastenings of other building units to be attached thereto.

1,781,235. JOURNAL BOX. PAUL B. LIEBERMANN, New York, N. Y., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Apr. 22, 1925. Serial No. 24,961. 15 Claims. (Cl. 308—41.)



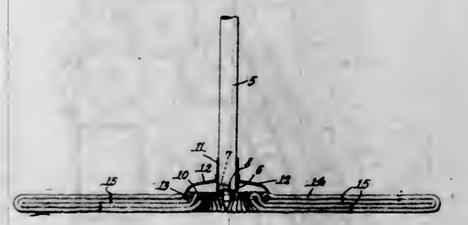
1. In a device of the character described, a journal box, a shaft journalled therein, a cap for the end of the box, said cap having an opening opposite the end of the shaft, a detachable closure member for the opening, a thrust plate having on one side a holding stud extending through the closure member and on the other side a thrust face with a recessed portion, a wick supported within the recessed portion of the thrust face and extending into the lower part of the journal box, said plate and wick being removable as a unit through said opening; substantially as described.

1,781,236. WHIRL BURNER. FRIEDRICH LILGE, Oberhausen, Germany. Filed July 25, 1928, Serial No. 295,237, and in Czechoslovakia Apr. 23, 1928. 17 Claims. (Cl. 158—109.)



12. In a burner in combination, an interior chamber, a spacedly disposed jacket around the chamber, communicating means between the jacket and the chamber, admission conduits for the jacket and the chamber, outer and inner regulating means for said communicating means, and additional regulating means for the conduits, and axially movable regulatable admission means within the chamber, a support outside of the chamber and of the jacket, a hollow operating shaft in the support connected to the inner regulating means, an interiorly threaded sleeve within said hollow shaft and secured against longitudinal displacement, means to detachably connect the sleeve to the shaft, an interior shaft within the hollow shaft and screw-threadedly engageable with the sleeve and connected to the regulatable admission means, means to detachably connect the hollow shaft to the support, operating shafts for the outer regulating means, journalled in the support, and means to detachably connect said last mentioned operating shafts to the support, and operating means for the conduit regulating means, axially displaceable upon the hollow shaft.

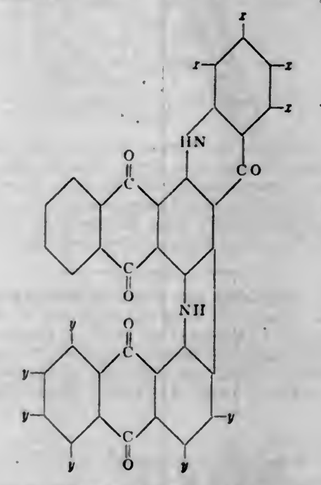
1,781,237. MOP. MOLLIE K. MERKLE, Paris, Ill. Filed Oct. 10, 1929. Serial No. 398,690. 1 Claim. (Cl. 15—120.)



In a mop, a head embodying a frame, said frame including a collar to be secured to one end of a mop stick, arms extending from the collar, said arms having downwardly extended outer ends, a ring secured to the downwardly extended outer ends, a collar slidably mounted on the mop stick, arms extending from the last mentioned collar and having downwardly extended ends, a ring secured to the downwardly extended ends of the last mentioned arms, and lengths of yarn looped around the rings.

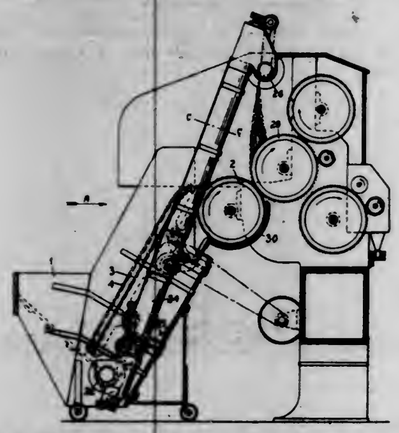
1,781,238. NEW VALUABLE VAT DYESTUFFS OF THE ANTHRAQUINONE SERIES. WALTER MIEG, Opladen, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed July 8, 1929, Serial No. 376,862, and in Germany July 9, 1928. 2 Claims. (Cl. 260—37.)

1. As new products the compounds of the probable general formula:



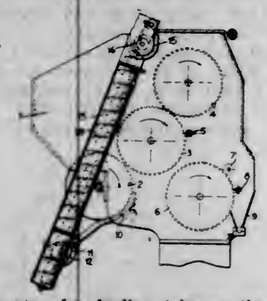
wherein one x stands for halogen and the other x's for hydrogen atoms which may be substituted by halogen and one y stands for an acylamino group and the other y's for hydrogen atoms which may be substituted by acylamino groups, being in the dry state dark powders dissolving in concentrated sulfuric acid with an intense coloration and dyeing cotton from an alkaline hydrosulfite vat reddish-grey to olive-brown shades of excellent fastness properties.

1,781,239. CIGARETTE-MAKING MACHINERY. WALTER EVERETT MOLINS, Deptford, London, England. Filed Aug. 19, 1927, Serial No. 214,203, and in Great Britain Aug. 27, 1926. 14 Claims. (Cl. 131—39.)



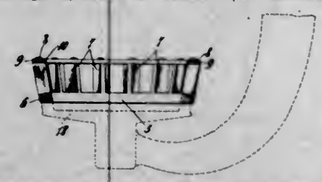
1. In a tobacco feeding apparatus for a cigarette making machine, a hopper, and means for feeding tobacco to said hopper and simultaneously effecting separation of the short and long shreds of tobacco.

1,781,240. CIGARETTE-MAKING MACHINERY. WALTER EVERETT MOLINS, Deptford, London, England. Filed Feb. 10, 1928, Serial No. 253,425, and in Great Britain Feb. 19, 1927. 8 Claims. (Cl. 131—39.)



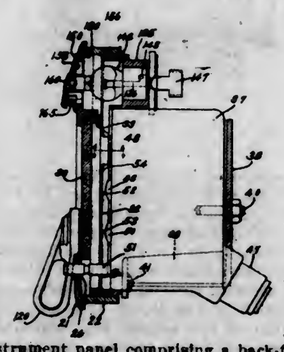
1. In apparatus for feeding tobacco, the combination with a combing roller, of a carded feeding roller for feeding tobacco thereto and spaced therefrom to permit short shreds of tobacco to fall, means for receiving the falling shreds and distributing them uniformly on the combing roller and over the tobacco carried thereby.

1,781,241. METHOD OF MAKING ROLLER-BEARING CAGES. HAROLD J. NESS and CLARENCE H. ROTH, Jersey City, N. J., assignors to The New Departure Manufacturing Company, Bristol, Conn., a Corporation of Connecticut. Filed Apr. 25, 1928, Serial No. 272,821. Renewed Apr. 3, 1930. 2 Claims. (Cl. 29—148.4.)



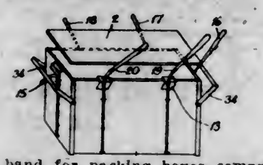
2. The method of making a two-piece cast bearing cage which comprises casting, in a metal mold, a blank consisting of one end ring and spacing members projecting therefrom, together with a gate comprising a disc extending entirely across said ring, cooling the blank, and cutting said gate away from the cage blank, and securing a second end ring to the free ends of the spacer members to complete the cage, substantially as described.

1,781,242. ILLUMINATED INSTRUMENT PANEL. HARRY E. NORVIEL, Anderson, Ind., assignor, by mesne assignments, to A C Spark Plug Company, Flint, Mich., a Corporation of Michigan. Filed June 12, 1923, Serial No. 645,007. Renewed May 12, 1930. 21 Claims. (Cl. 240—8.16.)



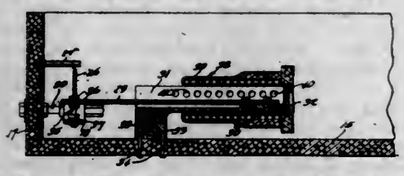
21. An instrument panel comprising a back-frame member provided with a plurality of apertures, instruments secured to the back-frame member with their dials exposed at said apertures, said back-frame member being provided with a lamp socket adjacent one margin and a lamp in the socket positioned to illuminate the dials of the instruments, a dial cover overlying said back-frame member provided with apertures to display said dials, a front frame member, transparent means between the front frame member and the back frame member for protecting the dials, said front frame member being apertured in line with said socket, and a cover for said aperture readily removable from the front of the panel to permit access to the bulb.

1,781,243. CLOSURE FOR BOXES AND CASES. VITTORIO ORZOGIA, San Remo, Italy. Filed Apr. 14, 1928, Serial No. 270,002, and in Italy Apr. 15, 1927. 5 Claims. (Cl. 24—18.)



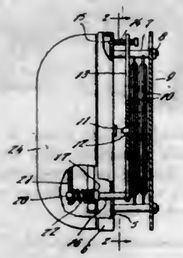
1. A tying band for packing boxes comprising an incomplete band in the direction of the length of the box, a plurality of cross bands, formed by double strings with interlocked eye-shaped ends adapted to complete the longitudinal band, a loop for connecting the free ends of said bands, and a seal for said loop.

1,781,244. HAIR-CURLING MACHINE. CLYDE D. OSWALD, San Bernardino, Calif. Filed June 27, 1928. Serial No. 288,572. 2 Claims. (Cl. 219—24.)



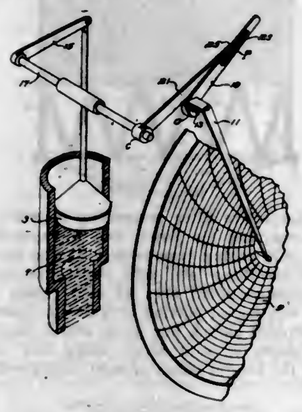
1. In combination, a support, a head member having an extension secured to the support and formed with a recess for the reception of a thermometer, said head member having a groove and perforated so that when the head member is extended into an electric hair curling unit heat will be readily transmitted to the groove, a switch on the support comprising a stationary contact and a movable contact yieldably urged to open position, the stationary contact being adjustable toward and away from the movable contact, and a thermostat secured within the said groove normally maintaining the movable contact in engagement with the stationary contact but permitting it to open when flexed.

1,781,245. ALARM. JAMES B. PEGRAM, Bridgeton, N. J. Filed Apr. 13, 1929, Serial No. 354,925. Renewed Mar. 27, 1930. 3 Claims. (Cl. 116—106.)



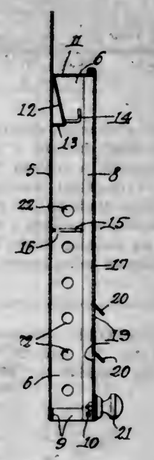
1. An alarm comprising a bell, a thermostatic unit, a spring mechanism, a clapper for engagement with the bell and cooperation by said spring mechanism, and means engageable with said clapper and releasable by the said thermostatic unit, said means consisting of a slide rod, a leaf spring engageable by said thermostatic unit, and being connected to said slide rod, and a head on the slide rod for normal engagement with the clapper.

1,781,246. MEASURING INSTRUMENT. IRVING W. REYNOLDS, Foxboro, Mass., assignor to The Foxboro Company, Foxboro, Mass., a Corporation of Massachusetts. Filed Aug. 27, 1927. Serial No. 215,929. 8 Claims. (Cl. 74—5.)



2. An instrument of the class described, comprising a responsive device having a linear movement; an arm for rendering available the movement of said device mounted to swing about one of two mutually spaced and relatively fixed pivot points; a lever mounted to swing about the other of said pivot points; connecting means comprising a crank driven by said responsive device and in turn driving said lever; a movable connection linking said lever to said arm; the distance from the pivot point of said lever to the point of attachment to said lever of said movable connection being greater than the mutual spacing of said centers whereby to effect angular movement of said arm substantially directly proportional to the linear movement of said responsive device in the range of the instrument.

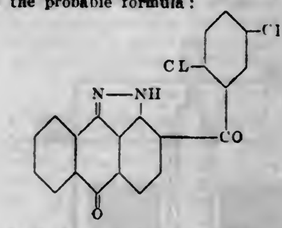
1,781,247. TOOTHBRUSH CABINET. WILLIAM HOBERT RICKLES, Marshall, Tex. Filed Nov. 17, 1928. Serial No. 320,194. 1 Claim. (Cl. 206—15.1.)



A cabinet of the class described including a box-like body portion having an open bottom, a top wall forming a part of the body portion, a portion of the top wall extending into the body portion and being inclined inwardly, the lower end of the inclined portion being disposed in spaced relation with the back of the body portion, hooks on the inclined portion, means for preventing lateral movement of the brushes held in the body portion, and a cover for the body portion.

1,781,248. COMPOUND OF THE PYRAZOLANTHRONE SERIES AND PROCESS OF MAKING SAME. HEINZ SCHEYER, Rio de Janeiro, Brazil, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Apr. 11, 1929, Serial No. 354,433, and in Germany Apr. 5, 1928. 6 Claims. (Cl. 260—45.)

6. As a new compound a 2-(dichlorobenzoyl)-pyrazolanthrone of the probable formula:

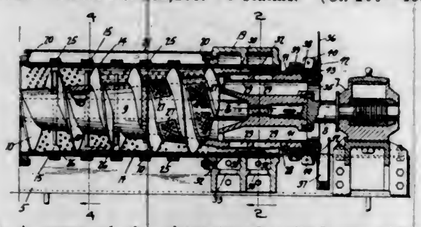


soluble in an aqueous alcoholic caustic soda solution with a bluish intense violet color, in concentrated sulfuric acid with an orange color.

1,781,249. FOOD BEVERAGE AND METHOD FOR PREPARING THE SAME. WILLARD J. SCHOLL, Jackson, Mich., assignor to Malt-O-Matic Corporation, a Corporation of Michigan. Filed Oct. 21, 1929. Serial No. 401,373. 7 Claims. (Cl. 99—11.)

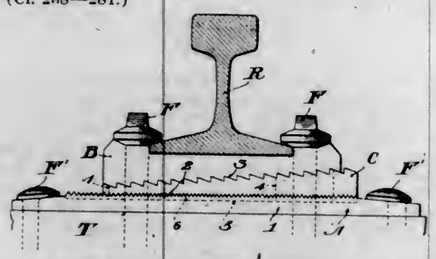
1. A chilled lactic beverage of temperature well below the freezing point of water and having uniform creamy consistency, specific gravity in the order of one-half that of water and including minute bubbles of air and minute impalpable crystals of ice, distributed throughout the volume of the product.

1,781,250. PRESS FOR EXTRACTING LIQUIDS. HENRY G. SCHWARZ, Denver, Colo. Filed Apr. 5, 1927. Serial No. 181,165. 4 Claims. (Cl. 100—48.)



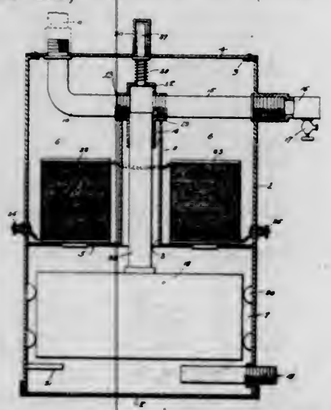
1. A press of the character described comprising a cylindrical screen element having a discharge opening, a rotary element including a conical body in the screen element, a flanged cylindrical extension without the same, and a helical screw blade on the conical body, a head spaced from the extension to provide a passage for the discharge of solids, and an annular shield beyond the passage, the flange on the extension being inside the opening of the shield.

1,781,251. RAIL SUPPORT. BERNARD J. SCHWENDT, Cleveland, and CARL F. STOLTZ, Cincinnati, Ohio. Filed June 15, 1929. Serial No. 371,206. 13 Claims. (Cl. 238—281.)



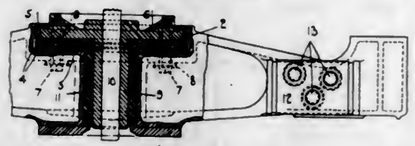
1. An adjustable rail support including a tie bearing plate, a rail supporting unit comprising vertically adjustable rail supporting members, and means for adjusting said rail supporting unit laterally of the tie bearing plate.

1,781,252. AUTOMATIC CONTROL FOR RESERVE LUBRICANTS. ALLISON SICKELS, Cape May, N. J. Filed Aug. 7, 1928. Serial No. 298,085. 1 Claim. (Cl. 184—103.)



An automatic control for supplying reserve lubricant to motor crank cases, in combination, an oil supply line leading from a reserve trough to the usual crank case of an automobile, a chamber communicating with the crank case, a float operable within the chamber, a valve on the float seatable within the supply line, an electro-magnet interposed within the usual ignition system of the automobile, said float being of a material capable of being magnetically attracted by said electro-magnet, said electro-magnet being adapted for energization when the automobile engine is in operation so as to attract the float and maintain the valve in that position, said valve being suitably mounted as to return to an open position when the said magnet becomes deenergized.

1,781,253. RAILWAY AND THE LIKE VEHICLE. ALEXANDER SPENCER, London, England. Filed Oct. 22, 1929, Serial No. 401,518, and in Great Britain Oct. 4, 1929. 9 Claims. (Cl. 105—230.)



1. In a railway vehicle bogie truck, a bolster, a centre casting, and a shock absorbing pad of india-rubber on which said centre casting is seated, the said india-rubber block having an upstanding flange extending around the base of said centre casting.

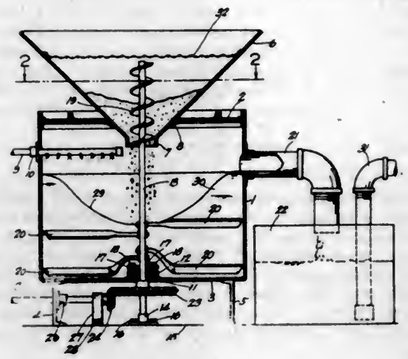
1,781,254. GAS PROTECTIVE OR BREATHING FILTER. HERMANN STELZNER, Lubeck, Germany, assignor to OTTO HEINRICH DRÄGER, Lubeck, Germany. Filed Feb. 4, 1929, Serial No. 337,419, and in Germany Feb. 9, 1928. 2 Claims. (Cl. 183—71.)



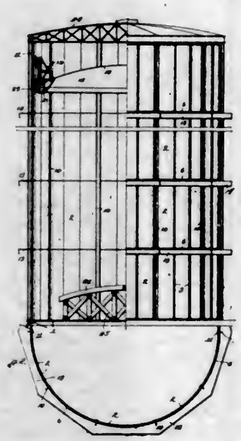
1. A gas protective filter comprising a casing through which the breathing air flows, and a vapor-filter-layer arranged in said casing transversely to the direction of flow of the breathing air, said vapor-filter-layer fully filling the cross-sectional area of said casing and consisting of a corrugated portion of uniform, readily formable filter material having fine pores, and a mantle snugly fitting the inside of said filter casing and completely surrounding the lateral edges of said corrugated portion.

1,781,255. CEMENT MIXER FOR CEMENTING OIL AND GAS WELLS. JOHN E. TROUTH, Seminole, Okla., assignor to Independent Oil Well Cementing Co., Inc., Oklahoma City, Okla. Filed Apr. 24, 1929. Serial No. 357,675. 7 Claims. (Cl. 83—73.)

1. A device, as and for the purposes described, embodying, a cement mixer having a funnel shaped bin disposed upon its top, a vertical shaft extending through said mixer and through the neck of said bin, means for rotating said shaft, means within said neck and upon said shaft for automatically controlling the feed of dry cement into said mixer from said bin, means for projecting water into said mixer, means for agitating and mixing said water and said cement and centrifugally forcing the mixture from said mixer through an overflow pipe to a cement pan.



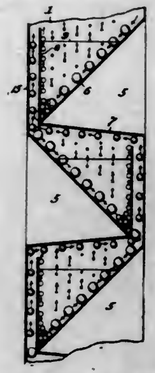
1,781,256. GAS HOLDER. FREDERICK H. WAGNER, Baltimore, Md., assignor to The Bartlett Hayward Co., Baltimore, Md., a Corporation of Maryland. Filed Aug. 6, 1926. Serial No. 127,678. 9 Claims. (Cl. 48—176.)



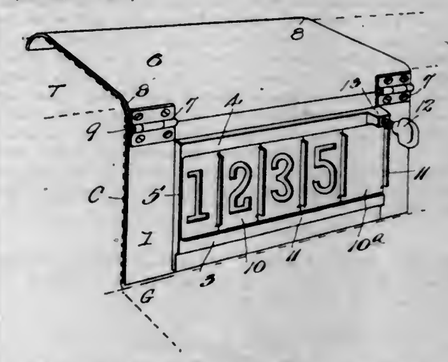
1. In a waterless gas holder, the combination of a shell; a piston mounted therein; a trough surrounding the piston and spaced away from the wall of the shell; a plurality of layers of felt the lower ends whereof extend down into the trough with the upper ends extending laterally into contact with the wall of the shell; and means urging said laterally extending portions outwardly.

1,781,257. DEEMULSIFIER. FREDERICK H. WAGNER, Baltimore, Md., assignor to The Bartlett Hayward Company, Baltimore, Md., a Corporation of Maryland. Filed Aug. 1, 1927. Serial No. 209,985. 5 Claims. (Cl. 196.5.)

2. In an apparatus of the character described, the combination of a casing; a series of downwardly inclined plates extending inwardly from two opposite sides of the casing, those on one side being staggered with relation to the other; a plate extending upwardly from the lower edge of each inclined plate, said upwardly extending plate being narrower at its lower edge than the width of the inclined plate and forming with the adjacent walls of the casing restricted passages through which the material undergoing treatment must pass; and a vertically disposed plate interposed between the upstanding and inclined plates.

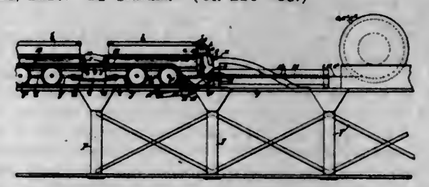


1,781,258. STENCIL. ARTHUR J. WALKER, Ogden, Utah. Filed Aug. 15, 1929. Serial No. 386,032. 2 Claims. (Cl. 101—127.)



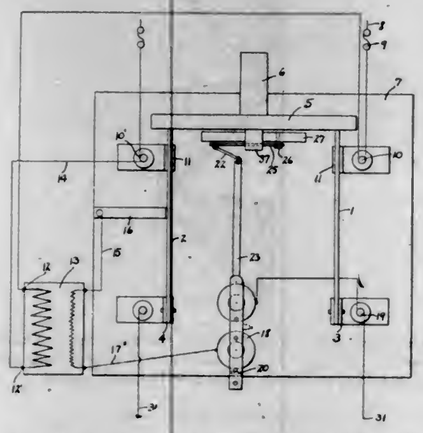
1. The combination in a stenciling device with a slotted frame having upper and lower guideways and end stops for said guideways, of a plurality of plates slidable in the guideways, said plates having edge flanges extending therefrom, a nut secured on one of the guideways, and a bolt in said nut adapted to impinge against one of the plates.

1,781,259. APPARATUS FOR CONVEYING FROM THE WORKING FACE IN MINES. ARTHUR WELSH and GEORGE RAW, New Washington, England. Filed Aug. 13, 1928, Serial No. 299,349, and in Great Britain Aug. 15, 1927. 14 Claims. (Cl. 214—58.)



1. Mine conveyor comprising a train of tubs with slidable bottom plates, rectangular open-frame couplings secured by vertical pivots at each end to respective bottom plates, and means on the train of tubs co-operative with means at a bridge in the mine for releasing said bottom plates when the train reaches the bridge.

1,781,260. ELECTRIC SWITCH. KARL EMIL WENZLAWSKI, Galveston, Tex. Filed May 11, 1928. Serial No. 277,030. 6 Claims. (Cl. 175—294.)



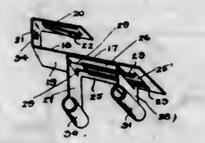
1. A safety switch comprising a two blade switch adapted to connect the two wires of a main light circuit to two terminals of a house lighting circuit, in combination with an auxiliary circuit from said light wires, a transformer in said auxiliary circuit, a resilient contact positioned in the path of movement of one of said switch blades, connected with one of the wires of said auxiliary circuit, the other of said auxiliary wires being connected through an electromagnet to the terminal of the house circuit remote from the said resilient contact member, and means actuated by said electromagnet when said switch contacts with said resilient contact to prevent the closing of said switch when there is a short circuit on the house circuit.

1,781,261. HOOD CATCH. WILLIAM R. WILEY, Detroit, Mich. Filed May 10, 1928. Serial No. 276,769. 2 Claims. (Cl. 292—215.)



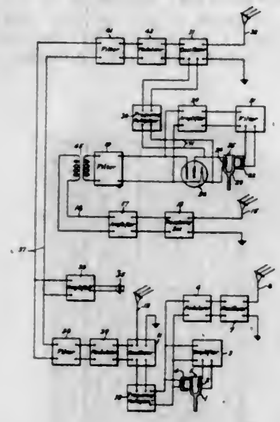
1. In a hood catch, in combination with suitably positioned anchorage brackets, a plurally deformed shaft member whose end portions are adapted to be swung into operative engagement with said brackets, and whose central portion is contoured into substantially arcuate form, means for rotatably supporting said shaft on one face of a hood wall, and means for selectively effecting the rocking movement of said shaft, comprising a manually rotatable shaft member journaled in said hood wall in position of substantial perpendicularity to the general axial extent of said first named shaft, and passing through said hood at a point substantially coincident with the center about which the arcuate contouring of the central deformed portion of the first named shaft extends, the inner end of said last named shaft being formed as an angularly disposed and terminally slotted radial arm within the terminal slot of which the central arcuately deformed section of the first named shaft member slidably engages, whereby manually effected rotation of said last named shaft member is translated into positively controlled partial rotation of said first named shaft in either direction, and the resultant desired engagement or disengagement of its end portions with the anchorage brackets.

1,781,262. COMBINED VALANCE-BOARD SUPPORT AND CURTAIN-ROD BRACKET. JACOB M. WINTROP, Philadelphia, Pa. Filed Aug. 7, 1928. Serial No. 297,989. 4 Claims. (Cl. 156—13.)



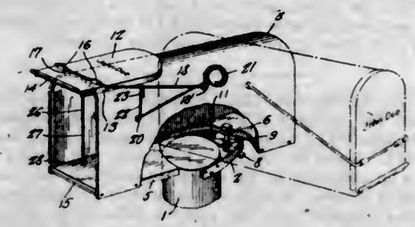
1. In a combined valance board support and curtain rod bracket, a substantially channel shaped member arranged to be secured in position above a trim with the open end thereof presenting away from the frontal face of said trim, resilient means for frictionally retaining a valance board within said channel, and means slidably associated with the bottom wall of said member for supporting one or more curtain rods in advance of the frontal face of said trim.

1,781,263. SYNCHRONIZING SYSTEM. LESTER J. WOLF, South Bend, Ind., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 9, 1927. Serial No. 238,823. 7 Claims. (Cl. 250—2.)



1. In a radio system, a broadcasting station, a second broadcasting station remote therefrom, means for maintaining said stations at the same carrier frequency comprising an oscillating system at one station and a regenerative oscillatory system stimulated thereby at the other station.

1,781,264. MAIL BOX. OLE M. AARSETH, Echo, Minn. Filed July 16, 1928. Serial No. 293,251. 1 Claim. (Cl. 232—45.)



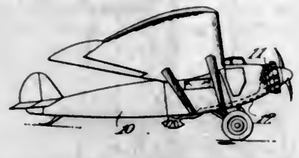
A letter box comprising an elongated receptacle having one end open to form an entrance, a door for said entrance,

flanges on the side and upper edges of the door and adapted to engage over the corresponding portions of the receptacle, a rolled flange on the lower edge of the door and projecting below the receptacle, a pair of ears on the door adjacent the lower edge thereof, and a U-shaped member having the ends of the arm portions thereof pivoted to the sides of the receptacle intermediate the ends of the latter, said U-shaped member having the web portion thereof pass through the ears to permit the door to swing upwardly and horizontally over the receptacle.

1,781,265. PROCESS OF MAKING A DECOLORIZING CLAY. WALTER S. BAYLIS, Los Angeles, Calif., assignor to Filtrol Company of California, Los Angeles, Calif., a Corporation of California. Filed May 14, 1929. Serial No. 363,049. 9 Claims. (Cl. 252—2.)

1. The process which comprises treating an initial batch of an activatable colloidal clay with a highly ionized mineral acid; adding a greater quantity of raw activatable clay; and subjecting the mixture to a temperature sufficient to eliminate substantially all water of crystallization and free acid from the clay.

1,781,266. SOUND AMPLIFIER FOR AIRPLANES. AMEDEO BRUNI, New York, N. Y. Filed Aug. 27, 1928, Serial No. 302,416. Renewed Sept. 25, 1930. 9 Claims. (Cl. 244—31.)

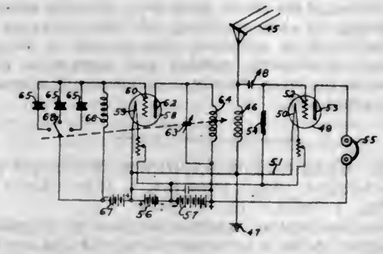


9. The improvement in the art of sound propagation from an airplane which comprises mixing the engine exhaust with the sound and projecting the mixture into the atmosphere.

1,781,267. COMPOUND FOR MIXING WITH CEMENTS AND METHOD OF MAKING THE SAME. RICHARD BUHMAN, Casper, Wyo. Filed Apr. 5, 1924. Serial No. 704,318. 1 Claim. (Cl. 106—27.)

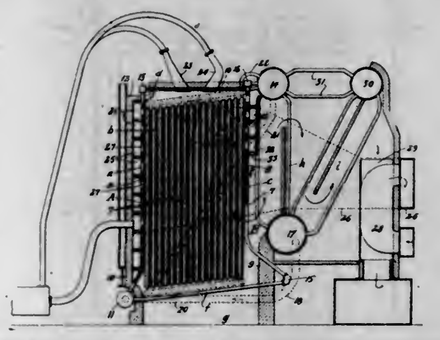
The method of preparing a cement for use in cementing off oil wells or the like, which comprises first making a cement of usual mix, adding calcium chloride to act as a dehydrating agent and also ferric chloride which will react with the cement to result in the formation of an additional quantity of calcium chloride, and a hydroxide which acts as an initial set retarding agent.

1,781,268. RADIO SYSTEM. LEWIS W. CHUBB, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 16, 1926. Serial No. 116,281. 7 Claims. (Cl. 250—20.)



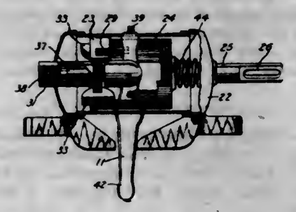
1. In combination, an untuned detecting circuit, and means whereby the effect of variable tuning is obtained by positively controlled regeneration.

1,781,269. BOILER FURNACE. HANS COERPER, Staten Island, N. Y., assignor to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 3, 1925. Serial No. 72,871. 1 Claim. (Cl. 122—235.)



The combination with a finely divided fuel burning furnace of a boiler including two rows of substantially upright tubes defining combustion space, header means at the lower end of the tubes of each row, a row of tubes extending across the lower portion of the furnace and connecting the header means of one upright row with the header means of the other upright row, economizer means including connected upper and lower drums, the upper ends of the upright rows of tubes being connected to said upper drum and downcomer means connecting said economizer means to one of said headers.

1,781,270. GEAR-SHIFTING MECHANISM. IRVEN E. COFFEY, Hastings, Nebr. Filed Oct. 6, 1922. Serial No. 592,770. 7 Claims. (Cl. 74—58.)

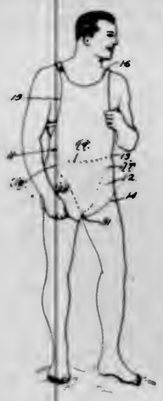


1. In a gear-shifting mechanism, the combination with a plurality of shiftable elements for securing more than two speed ratios and a member that is mounted for axial and angular movements, said member having a plurality of recesses in one face thereof, of a member pivotally supported at its mid-portion and adjacent to the axis of the recessed member for movement in the one or the other direction about its pivotal support to select any of said speed ratios when it is engaged by the recessed member according as a recess registers with the one or the other end of the second-named member.

1,781,271. BATHING SUIT. GEORGE W. COWDREY, Los Angeles, Calif. Filed Mar. 14, 1928. Serial No. 261,553. 6 Claims. (Cl. 2—67.)

1. A bathing suit having an upper body portion having shoulder straps and an outer trunk portion formed integral therewith, an inner trunk portion secured at its upper edge to the outer trunk portion, the measurement of the inner trunk portion from such place of attachment to the crotch of the inner trunk being less than the measurement of the

outer trunk from such place of attachment to the crotch of the outer trunk, and the inner trunk being attached to the



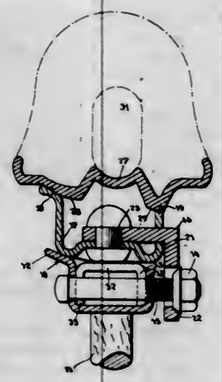
outer trunk substantially only at the above mentioned place of attachment the shoulder straps giving a support for the inner trunk.

1,781,272. COMBINATION SCREEN AND SASH MOUNTING. EARLE W. CUMMINGS, Los Angeles, Calif., assignor to Watertite Casement Hardware Co., Los Angeles, Calif., a Corporation of California. Filed Feb. 6, 1929. Serial No. 337,849. 16 Claims. (Cl. 20—53.)



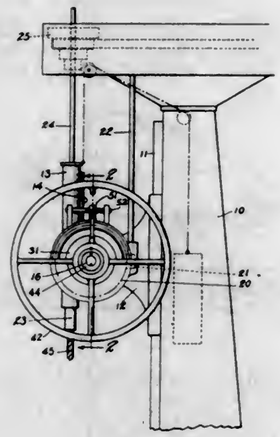
1. A device of the class described comprising a frame, an outer closure swingingly mounted in the frame, an inner closure swingingly mounted in the frame, and means for detachably connecting the inner and outer closure together, said means being so constructed as to automatically connect the inner closure to the outer closure when the inner closure is swung against the outer closure.

1,781,273. WHEEL ASSEMBLY. BURGESS DARROW, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 20, 1927. Serial No. 241,323. 2 Claims. (Cl. 301—10.)



2. A wheel assembly including a felloe of channel shape open to the radially outer side of the wheel, the inner leg of the felloe having a flared outer edge portion to provide an inclined seat, an adapting member of channel shape having its base seated on the flared edge of the felloe and its legs projecting radially outwardly from the base, the inner leg of the adapting member terminating in an inclined portion, a solid tire base seated on the legs of the adapting member, clamping means cooperating with the adapting member and tire base for securing the latter on the former, and clamping means cooperating with the felloe and adapting member for securing the latter on the former, said last mentioned clamping means comprising a member extending through the outer leg of the felloe and rigidly secured to the outer peripheral surface of the base of the adapting member, and also demountably secured to the felloe.

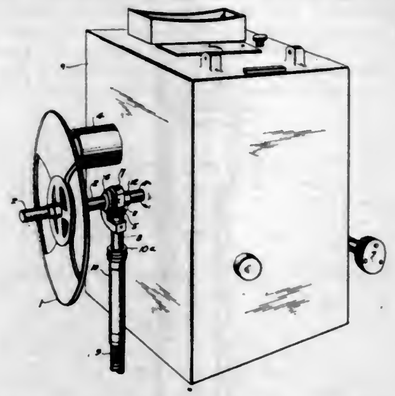
1,781,274. FEED-CONTROL MECHANISM. WILLIAM C. DE ROO, Cincinnati, Ohio, assignor to The Fosdick Machine Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 8, 1927. Serial No. 166,736. 7 Claims. (Cl. 77—33.)



1. In a device of the class described the combination of a reciprocating member, a rack carried by said member, a head providing a bearing for the reciprocating member, a shaft journaled in said head, a pinion on the shaft meshing with the rack for reciprocating the first mentioned member, a freely rotatable power actuated clutch member on the shaft, a complementary clutch element mounted for rotation with the shaft, a hand-wheel having a groove therein, means associated with the hand-wheel whereby the shaft may be manually rotated by said hand-wheel and adapted to be moved by said hand-wheel for effecting frictional binding of the clutch members, a pivotally mounted lever having its ends extending into the groove in the hand-wheel, and an adjustable stop carried by the first mentioned reciprocating member and adapted to effect movement of the lever whereby to automatically disengage the clutch members.

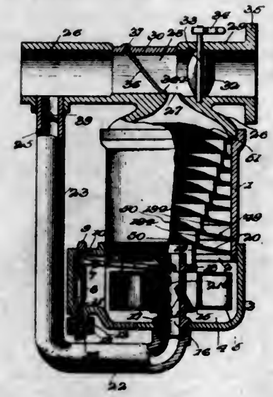
1,781,275. GEARING FOR MACHINES. WILLIAM D. DOBSON, Cleveland, Ohio. Filed Oct. 1, 1929. Serial No. 396,453. 1 Claim. (Cl. 74—101.)

A device for coupling angularly disposed shafts comprising a pair of shafts, a U-shaped bracket through one arm of which one shaft extends and through the other arm of which the other shaft extends at an angle thereto, a pair of beveled gears one of which has a bearing sleeve extending through one arm of the bracket and fixed to one shaft, and a removable collar on the end of the sleeve opposite



said gear, and the other of which gears is fixed to the other shaft, said gears being supported by the bracket and removable therewith from the first mentioned shaft.

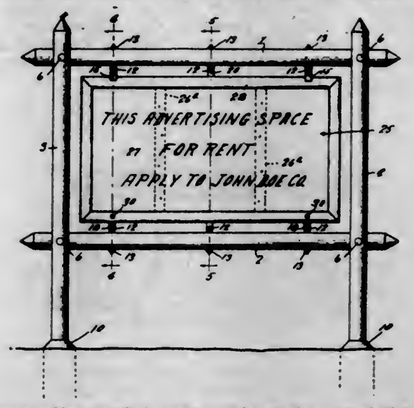
1,781,276. CARBURETOR. LAURENCE RUDOLPH EBERT, Vancouver, Wash. Filed Feb. 13, 1924. Serial No. 692,567. 3 Claims. (Cl. 261—46.)



3. A carburetor comprising a mixing chamber, a float chamber, a primary and a secondary air intake passage, a lever controlled valve within each air intake passage, connecting means for the simultaneous operation of said valves to control the flow of air through said two air intake passages, a shaft forming one extremity of said intake valve, a pendant lever attached to said shaft, a collar attached to each of said levers, a hinge joint consisting of two link members pivotally attached together and supported by a flexible member capable of manual operation, one end of said hinge joint being pivotally attached to the collar on the primary air intake valve lever, the opposite end being similarly connected to the collar on said other pendant lever, and appropriate spring means for holding said valves in their closed position and offering resistance to their opening, substantially as and for the purpose described.

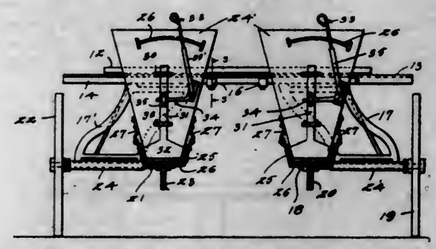
1,781,277. SIGN CONSTRUCTION. HARRY C. GAMMETER, Cleveland Heights, Ohio. Filed Feb. 27, 1928. Serial No. 257,144. 7 Claims. (Cl. 40—128.)

1. In a device of the character described, the combination of opposed supports arranged in vertically spaced relation, a plurality of not less than three elongated elements sustained by and tensioned between said supports, panel embracing clips immovably secured to two of said elements adjacent their upper ends, ledges having unobstructed top surfaces and likewise secured to said two



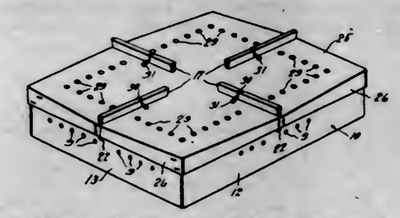
elements adjacent their lower ends, a sign panel that is adapted to be placed flatwise against said elements with its upper edge embraced by said clips and its lower edge resting upon said ledges, and means for removably securing the sign panel to the elements.

1,781,278. FERTILIZER DISTRIBUTOR. CEPHUS G. GOODRICH, Wakefield, Va. Filed Feb. 4, 1929. Serial No. 337,376. 1 Claim. (Cl. 275—2.)



In a fertilizer distributor, a pair of frames each having an axle with a ground wheel and a fertilizer containing hopper, a draft means including a transverse bar, a pair of transverse angle bars disposed below the first transverse bar with their corresponding wings in parallel relation, each of said angle bars having one of said frames secured thereto, angular U-shaped members slidably receiving the said parallel wings, and bolts disposed vertically through the first bar and through said U-shaped members, between the parallel wings, for holding the angle bars in slidably adjusted positions.

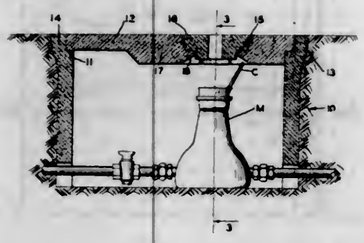
1,781,279. SHIPPING BOX FOR CHICKS. ROBERT A. GORSUCH, Gambier, Ohio. Filed Jan. 7, 1929. Serial No. 330,772. 12 Claims. (Cl. 229—15.)



11. A shipping box for chicks including top, bottom and side walls, and partitions in said box having portions

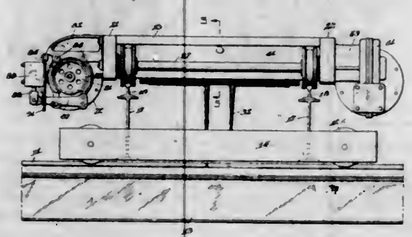
extending through said box and bent over themselves and projecting therefrom providing spacers for the purpose described.

1,781,280. WATER-METER BOX. LEO G. HAASE and FRANK M. BROOKS, Pasadena, Calif., assignors to Art Concrete Works, Pasadena, Calif., a Corporation of California. Filed Jan. 30, 1929. Serial No. 336,220. 3 Claims. (Cl. 137—13.)



3. A water meter box having a cover in which there is an aperture adapted to receive a closure or lid, the cover adjacent the aperture being materially thickened which is apparent on its under side, the under side of the cover having at least one recess adjacent the aperture through which the top of the cover on a water meter may swing to expose the meter to view.

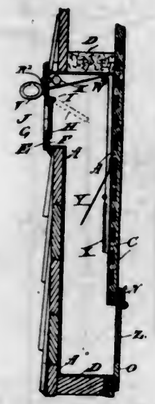
1,781,281. CRANE TROLLEY. ARTHUR E. HOGREBE, Philadelphia, Pa., assignor to Box Crane & Hoist Corporation, Philadelphia, Pa., a Corporation of Delaware. Filed July 6, 1928. Serial No. 290,776. 2 Claims. (Cl. 212—131.)



1. A crane trolley having side frames, means on one of said frames for supporting a traverse motor longitudinally parallel thereto and below the top of said frames, bearing housings on said frames for supporting a hoist drum shaft, means for supporting a hoist motor on the other frame and longitudinally parallel to said frames, and a housing on said last frame for housing gear means and mechanism for connecting said means to said hoist motor, the mechanism between the means and motor being so arranged that the motor may be mounted below the top of the side frames.

1,781,282. MAIL CHUTE. RALPH M. HULETT, Cleveland, Ohio. Filed Sept. 5, 1928. Serial No. 304,145. 5 Claims. (Cl. 40—132.)

1. In a mail chute, a hollow body having oppositely directed upper and lower openings, a plate covering the upper opening, a swinging door in said plate, said door having a transparent portion for the reception of the house number, an external plate detachably secured to said covering plate, an electric lamp secured to said detachable plate and extending into said chute, a suitable source of power providing a circuit for said lamp, and a switch



for said circuit adjacent to said lower opening, said switch being accessible only to the occupant of the building in which said chute is situated.

1,781,283. ADVERTISING SIGN. WILLIAM INTEMANN, Brooklyn, N. Y., assignor to American Lithographic Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 5, 1929. Serial No. 352,728. 2 Claims. (Cl. 40—135.)

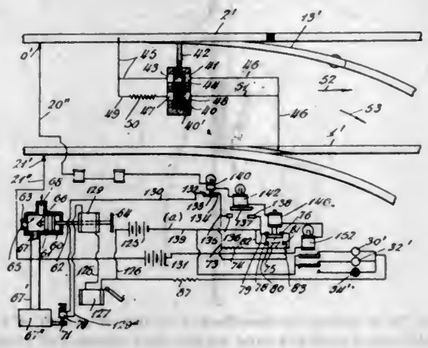


1. An advertising sign comprising a body portion of translucent material, display material on opposite sides of said body portion in reverse and in registration whereby to produce the same display from opposite sides of the body portion, a sheet of opaque material superimposed on one side of said body portion to prevent the diffusion of light therethrough and thereby render a portion of the display matter thereof visible but from one side of said body portion, said superimposed opaque material being cut out to permit of the diffusion of light through that portion of said translucent body portion upon which the display material is in reverse registration, and display material carried by said sheet of opaque material, and visible only from that side of the sign to which the opaque material is attached.

1,781,284. METHOD FOR AUTOMATICALLY SIGNALING AND CONTROLLING TRAINS ACCORDING TO THE POSITION OF TRACK SWITCHES. HEINRICH KARL, Jersey City, N. J. Filed Feb. 15, 1928. Serial No. 254,502. 3 Claims. (Cl. 246—176.)

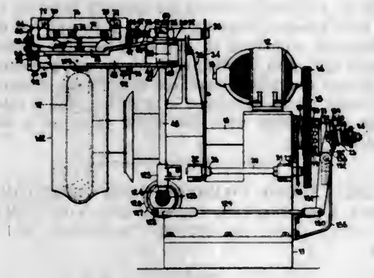
1. In an automatic signal and control system, a switch tongue of a track switch adapted to resume a completely normal open and a completely normal closed position, movable contacts adapted to make electric connection

when the switch tongue is in normal closed position and when in completely normal open position but interrupting the electric connection when the switch tongue is in a position midway between these positions, a signaling device adapted to indicate said three positions of the track switch tongue, a relay including a relatively heavy armature and a light armature, a circuit including said relay and said movable contacts, a resistance included in said



circuit when the track switch resumes one of said normal positions whereby only the light armature will be attracted, and no resistance included in said circuit when the switch tongue resumes the other of said normal positions whereby both armatures will be attracted by said relay, and the signal device indicating "danger" when the switch tongue resumes said position midway between said two normal positions whereby none of said armatures will be attracted by said relay.

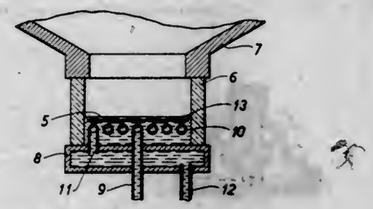
1,781,285. TREAD APPLIER. HERMAN T. KRAFT, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 24, 1927. Serial No. 242,500. 14 Claims. (Cl. 154—10.)



1. A tire tread shaping device comprising a pair of parallel rollers, a third roller juxtapositioned thereto with its surface adapted to engage the surfaces of the first mentioned rollers and means for driving the first mentioned rollers at differential rates of speed, whereby tread bands which pass between the two sets of rollers will be stretched in their mid portions so that they will conform to the contour of a tire.

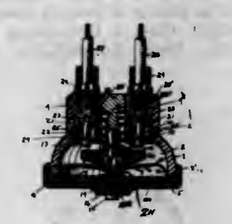
1,781,286. MERCURY-VAPOR RECTIFIER. JOHANNES KUBLER, Baden, and ERNST KOBEL, Ennetbaden, Switzerland. Filed Feb. 16, 1929, Serial No. 340,443, and in Germany Jan. 30, 1928. 4 Claims. (Cl. 250—27.5.)

1. In an electric current rectifier of the metallic vapor type, a liquid metallic cathode, a coil of tubing arranged within said cathode to provide a path for the circulation of a cooling medium therethrough, and a shielding plate



of difficultly fusible material arranged intermediate the upper surface of said cathode and said cooling means to prevent attachment of the electric arc thereon.

1,781,287. THERMOSTAT. EDWARD J. LEVY (now by judicial change of name Edward Levy Mayo), Cleveland, Ohio, assignor to The Bishop & Babcock Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 26, 1927. Serial No. 194,275. 7 Claims. (Cl. 200—140.)



1. In a fluid pressure-operated switch mechanism a cell having a substantially rigid end wall and a disk of substantially saucer-form joined by its rim to the border of the said rigid wall, said saucer-form disk having a reentrant end wall joined to its rim by a gradually radially curvilinear annular portion, means to introduce a fluid under pressure between the walls of the cell, and an electrical switch operable by snapping movements of the reentrant portion of the disk end wall responsive to variations in fluid pressure between the walls, and spring means tending to restore the switch after an actuation effected by the expansive effect of fluid pressure in the chamber, said electrical switch comprising a plunger mounted for movement axially to the disk reentrant portion and having an end engageable therewith, said spring means comprising a spring disposed to press the plunger against reentrant wall portion, an electrical switch blade supported on the plunger, and electrical contact means engageable by the switch blade upon a predetermined reciprocatory movement of the plunger responsive to a snap movement of the reentrant portion of the disk.

1,781,288. THERMOSTATIC SWITCH. EDWARD J. LEVY, (now by judicial change of name Edward Levy Mayo), Cleveland, Ohio, assignor to The Bishop & Babcock Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 31, 1928. Serial No. 303,195. 14 Claims. (Cl. 200—140.)

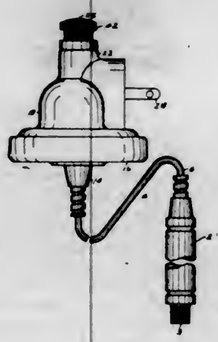
1. In a fluid pressure operated electrical switch, in combination with a casing, a fluid pressure cell disposed with-

in the casing comprising a concavo-convex wall and a holder therefor, the wall being adapted to reverse the direction of its concavo convexity upon predetermined variations in fluid pressure in a wall of the cell, a pair of electrical contact elements supported in the casing, a block adapted to be reciprocated toward and from the con-



tact elements, a switch blade supported on that side of the block disposed toward the contact elements, said block comprising a portion relatively telescopable with a portion of the casing to loosely guide the reciprocable block, and a spring effecting pressure to press the block towards the cell.

1,781,289. THERMOSTATICALLY-OPERATED ELECTRICAL SWITCH. EDWARD J. LEVY (now by judicial change of name Edward Levy Mayo,) Cleveland, Ohio, assignor to The Bishop & Babcock Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 1, 1929. Serial No. 339,762. 5 Claims. (Cl. 200—83.)



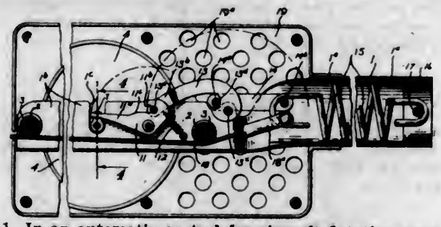
1. In a fluid pressure operated switch mechanism, the combination with a fluid pressure cell comprising a pair of discs, means securing the discs together in fluid tight engagement at their edges, one of said discs being constrained by said means to a concavo-convex form, a casing within which the disc is secured, an electrical switch mechanism disposed within the casing, said mechanism comprising a switch operating element longitudinally reciprocable relative to the axis of the cell, and a spring pressing said element against the central portion of the concavo-convex disc, said cell being adapted to contain a fluid under varying conditions of pressure thereof, and to change the direction of its concavo-convexity responsive to pressure above a predetermined value, and means to vary the said predetermined value, said means comprising an annulus engageable with the exterior surface of the concavo-convex disc, intra-peripherally thereof, a pair of thrust elements diametrically engaging the annulus, and means or exerting thrust on the elements axially of the annulus.

1,781,290. GOLF CLUB GRIP. CHARLES BEEL MARGHAVE, Los Angeles, Calif. Filed Dec. 3, 1928. Serial No. 323,344. 4 Claims. (Cl. 273—81.)



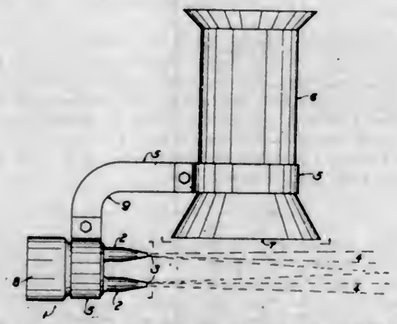
1. In a device as described, a shank of a club, a helically coiled spring wound on the said shank and secured thereto forming a hand grip.

1,781,291. AUTOMATIC CONTROL FOR AIRPLANE FLOTATION APPARATUS. EDWIN MAYMAN, San Diego, Calif. Filed Jan. 7, 1930. Serial No. 419,172. 8 Claims. (Cl. 244—2.)



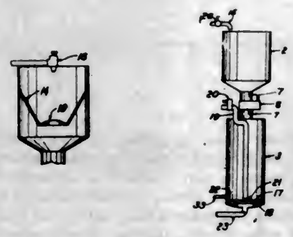
1. In an automatic control for aircraft flotation apparatus, a body member, a spring secured at its one end thereby, a mechanism supported by said body member arranged to hold said spring in its distorted position, a pressure actuating means and means operated thereby for releasing the hold of said mechanism upon said spring, and a cable connecting said spring with the draw cable of a flotation apparatus.

1,781,292. HAND FOAMITE FIRE EXTINGUISHER. JAMES A. MCCRACKEN, Los Angeles, Calif. Filed Sept. 28, 1927. Serial No. 222,634. 5 Claims. (Cl. 169—15.)



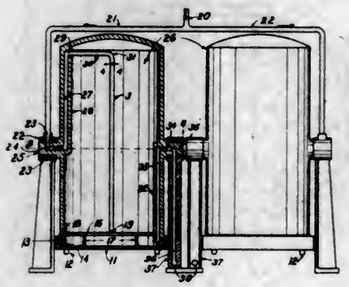
1. A device for extinguishing fires by means of fire foam, comprising: a nozzle for attachment to a source of water under pressure and adapted to deliver said water in a plurality of superposed streams of high velocity, and a hopper suspended over said streams, said hopper having an opening at its lower end positioned to deliver a stream of foam producing powder into said water streams.

1,781,293. PORTABLE FOAM-PRODUCING APPARATUS. JAMES A. MCCRACKEN, Los Angeles, Calif. Filed Sept. 28, 1927. Serial No. 222,635. 2 Claims. (Cl. 169—15.)



1. An apparatus for producing a fire-foam solution, comprising: a hopper for receiving a supply of a soluble powder; a substantially closed vessel in fixed position beneath said hopper; means for downwardly directing a jet of water into said hopper and for intermixing said water with said powder to the consistency of a fluent mass; a means of communication between said hopper and said vessel; a controllable closure within said communication means for permitting said fluent mass to pass at will into said vessel; means for admitting water into said vessel under pressure in a flow-stream; means for intermixing said fluent mass with said flow-stream and for producing aqueous solution of the powder therein contained, and means for conveying said solution to a point of use thereof, the conveyance of said solution to said point of use being brought about solely by the pressure of the entering water.

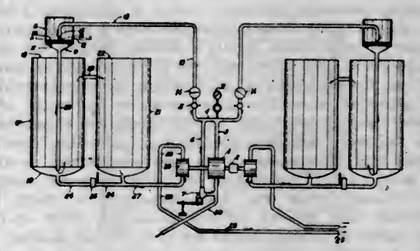
1,781,294. METHOD OF AND APPARATUS FOR PRODUCTION OF FOAM SOLUTIONS. JAMES A. MCCRACKEN, Los Angeles, Calif. Filed Sept. 28, 1927. Serial No. 222,637. 10 Claims. (Cl. 169—15.)



1. The method of bringing a foam producing agent into solution, which comprises: producing a flow stream of water under pressure; converting said flow stream into a sheet of flowing water under pressure; superposing on said water sheet a body of foam producing agent; forcing said superposed body into continued contact with said water sheet by admitting water under pressure on top of said body; producing a solution of said agent substantially on the plane of contact between said body and said water sheet, and collecting said solution into a flow-stream.

3. An apparatus for dissolving a foam producing agent comprising: a vessel with vertical cylindrical walls and with one end permanently closed, said vessel being supported on trunnions so as to render it readily reversible end for end; a readily detachable closure for the end opposite the fixed end; a plate attached to said closure, inside said vessel, in a position close to said closure and at a right angle to the vertical axis of said vessel; said plate being of such size as to leave a narrow annular opening between said plate and said cylindrical walls; a pipe for admitting water under pressure into said vessel, said pipe terminating at such distance from said plate as to leave a relatively narrow gap therebetween, said pipe being further provided with a means for the escape of water inside said vessel and close to the fixed end thereof; a means for conducting water into said pipe, and a conductor for discharging solution communicating with the interior of said vessel.

1,781,295. METHOD AND MEANS OF CONTINUOUS PRODUCTION OF FIRE FOAM. JAMES A. MCCRACKEN, Los Angeles, Calif. Filed Sept. 28, 1927. Serial No. 222,638. 4 Claims. (Cl. 169—14.)

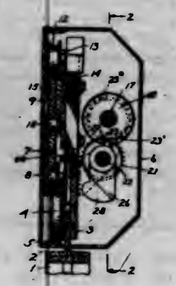


1. The continuous method of producing a foam for extinguishing fires which comprises: producing a flow stream of water under pressure; dividing said stream into two streams of substantially equal volume; continuously metering said streams and maintaining each at a substantially constant volume; converting said streams into flowing water sheets; introducing onto each of said sheets at atmospheric pressure a body of comminuted foam producing agent contacting said sheet, one such body being of acid, the other of alkaline agent; continuously washing away portions of each of said bodies by the contact of each with its appropriate water sheet; replenishing each of said bodies without interrupting said water streams as the material of said bodies is washed away; collecting each said sheet and the agent contained therein in a retarded flowing mass under atmospheric pressure to permit complete solution of the agent and to provide a reservoir of solution; creating a flow stream under superatmospheric pressure of each of said solutions, and separately conducting each of said streams to a point of intermixture thereof, for the production of foam at said point of intermixture.

1,781,296. METHOD OF TREATING TEXTILE FABRICS. ALEXANDER MILHOMME, Ridgefield Park, N. J., assignor to Progressive Silk Finishing Co., Hoboken, N. J., a Corporation of New Jersey. Filed Apr. 13, 1920. Serial No. 354,989. 3 Claims. (Cl. 18—51.)

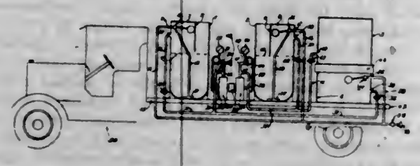
1. The method of producing moiré scratch patterns in fabrics made from cellulose acetate fibres, which comprises moistening the fabric while in folded condition, scratching a pattern thereon while folded and moistened, drying the fabric, and thereafter subjecting the same to heat and pressure.

1,781,297. DOOR OPERATING AND LOCKING MECHANISM. ABRAHAM PERLMAN, New York, N. Y. Filed Apr. 10, 1930. Serial No. 443,057. 7 Claims. (Cl. 189—8.)



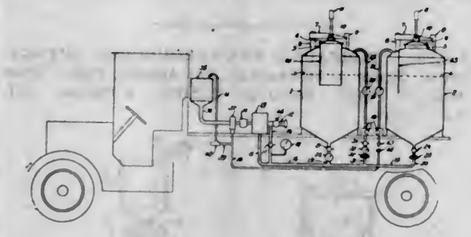
6. In a device of the class described, the combination with a number of cell doors individually mounted and adapted to be moved to open and closed position, an actuating member common to a group of said doors, separate connecting devices for each of said doors adapted to connect said actuating member with a predetermined number of said doors, separate locking devices for each of said doors adapted to lock the same in open or closed position, the operation of said locking device controlling the operation of said connecting device by means of a member moved into and out of operative engagement with the door structure engaging a connecting member of the said connecting device and respectively moving the same out of engagement or permitting the engagement thereof with the door structure, a shaft for operating said locking devices, a second shaft operating a selective control device for each of said locking devices, a selective control device operative in connection with each of said locking devices causing the selected devices to be operatively connected with said first shaft, and manually operated means for operating said shafts from a distant point.

1,781,298. CONTINUOUS FOAM-PRODUCING METHOD AND APPARATUS. PAUL W. PRUTZMAN, Los Angeles, Calif. Filed Sept. 28, 1927. Serial No. 222,567. 5 Claims. (Cl. 169—14.)



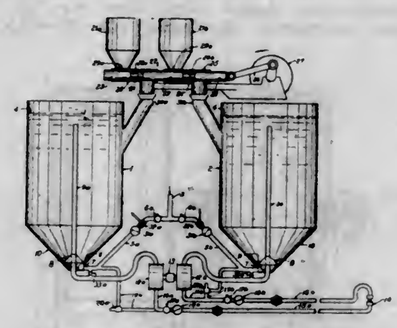
3. A method of simultaneously and continuously producing two dissimilar fire-foam solutions and leading them to a point of intermixture, comprising: placing in a vessel substantially open at its top a mass of powdered alum; placing in a similar vessel a mass of powdered soda; feeding water upwardly through each said mass to produce a substantially saturated solution of the powder contained in said vessel; maintaining a quantity of undissolved powder underlying a layer of said saturated solution in each said vessel; separately and continuously drawing stream of said solutions by suction from said layers of solution through orifices adjusted to pass said solutions in predetermined proportions, and separately forcing said solutions to a point of intermixture thereof.

1,781,299. CONTINUOUS PRODUCTION OF FOAM SOLUTIONS. PAUL W. PRUTZMAN, Los Angeles, Calif. Filed Sept. 28, 1927. Serial No. 222,568. 1 Claim. (Cl. 169—14.)



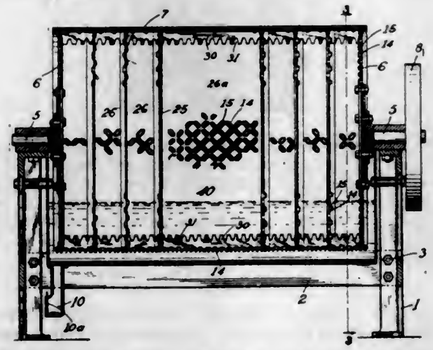
A continuous foam producer in combination with a vehicle including closed vessels, a main water line having a pressure pump, a water feed line disposed below said vessels, branch lines having predetermined pressure controllable means communicating with said feed line and vessels, an open supply licorice vessel above the main line, a licorice pressure pump having a depending discharge pipe including a relief valve operatively associated with said licorice pressure pump, a delivery pipe joining said relief valve and in open communication with said licorice vessel, a by-pass having predetermined pressure controllable means interposed between the main water and feed lines, outlet lines including meters communicating with the upper portion of said closed vessels, a diluting branch pipe including predetermined pressure controllable means in communication with one of the outlets, a licorice feed supply line co-acting with said licorice pump and connecting with the other of said outlet lines, said closed vessels including a barrier precluding cloggage of said lines, locking means whereby said vessels are closed seal tight and means for actuating said pumps.

1,781,300. APPARATUS FOR FIRE-FOAM PRODUCTION. PAUL W. PRUTZMAN, Los Angeles, Calif. Filed Sept. 28, 1927. Serial No. 222,569. 2 Claims. (Cl. 169—14.)



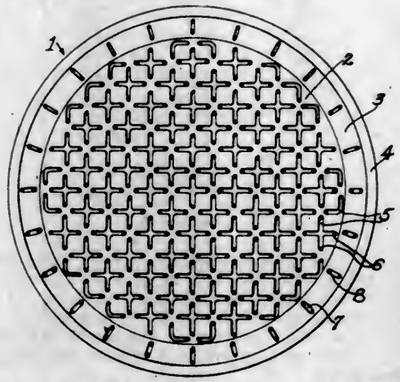
1. An apparatus for continuously and simultaneously producing dissimilar solutions of foam producing chemicals comprising: tanks for maintaining separate bodies of solution of said chemicals; means for separately feeding predetermined proportions of said chemicals in the form of dry powders continuously into said tanks; means for agitating the contents of said tanks to facilitate solution of said powders; means for admitting water into said tanks in predetermined proportion; pumping means for separately and continuously withdrawing said solutions from said tanks and for separately forcing said solutions to a point of intermixture thereof, and means for proportioning the quantities of said solutions delivered by said pumping means, each said proportioning means comprising a bypass communicating between the discharge side and the suction side of said pumping means, a release valve in said bypass for maintaining a predetermined pressure on said discharge side, and an orifice in said discharge between said pump and said point of intermixture for discharging a predetermined flow of liquid at said predetermined pressure.

1,781,301. APPARATUS FOR CLEANING EDIBLE ANIMAL TISSUES. JOHN RANDALL, Cleveland, Ohio. Filed Oct. 7, 1927. Serial No. 224,548. 7 Claims. (Cl. 17—43.)



5. An apparatus for cleansing elongated articles comprising a rotatable container for the articles and means to rotate the container in a body of cleaning fluid, the inner walls of the container having roughened surfaces for subjecting the elongated articles to a scrubbing action, and a plurality of walls within the container dividing the same into a number of article receiving compartments, the surfaces of the walls having portions extending substantially longitudinally of the container for engagement with the articles in the compartments.

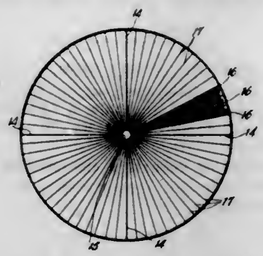
1,781,302. VENTILATING BAKING PAN. CLARENCE P. ROBERTS, Los Angeles, Calif. Filed Feb. 27, 1928. Serial No. 257,134. 2 Claims. (Cl. 53—6.)



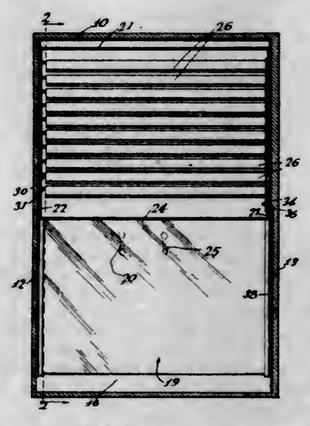
1. A pan provided with depressions, and having a plurality of spaced openings at the bottom of each depression so as to provide air circulation in the depressions.

1,781,303. AIR-PREHEATING DEVICE. JOSEF RYDMARK, New Rochelle, N. Y., assignor to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 1, 1926. Serial No. 85,076. 1 Claim. (Cl. 257—6.)

In an air heater of the regenerative type, a tubular casing, a plurality of fixed plates dividing said casing into segmental compartments, a plurality of radially disposed loose heating elements in each compartment and loosely positioned nests of plates between adjacent elements, said nests each including a plurality of spaced plates increasing in width from the center to the periphery of the casing.

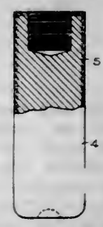


1,781,304. VENETIAN BLIND FOR MOTOR VEHICLES. LAWRENCE G. SHOOK, Los Angeles, Calif. Filed Oct. 1, 1927. Serial No. 223,333. 14 Claims. (Cl. 296—44.)



1. In combination with a vehicle having a window opening and a window adapted to occupy the window opening or a concealed position therebelow, means providing a Venetian blind adapted to occupy the window opening or a concealed position therebelow adjacent the window when the window is in concealed position, and means operable upon shifting the blind from one position to another for causing the slats of the blind to be turned.

1,781,305. ANODE OF CARBONIZED IRON OR THE LIKE. LLOYD SMEDE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 11, 1927. Serial No. 225,460. 9 Claims. (Cl. 250—27.5.)



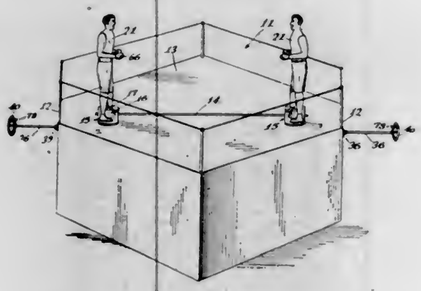
1. A mercury-vapor rectifier having one or more anodes made of a non-Noble metal which is not readily attacked

by mercury vapor, said metal having inclusions of materials having relatively great electron-emissivity, as compared to iron, at the working temperatures, in the interior of the anodes, and carbides of said inclusions at the surface.

1,781,306. METHOD OF PRESERVING RUBBER. JAN TEPPEMA, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 30, 1926. Serial No. 151,825. 11 Claims. (Cl. 18—50.)

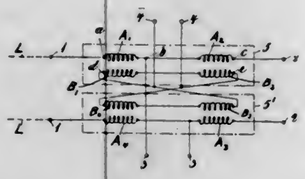
4. The method of imparting age-resisting properties to rubber which comprises incorporating therewith phenyl-alpha-naphthylamine.

1,781,307. BOXING AMUSEMENT DEVICE. WILLIAM J. VERONDA, San Marino, Calif. Filed Nov. 14, 1927. Serial No. 233,146. 7 Claims. (Cl. 46—40.)



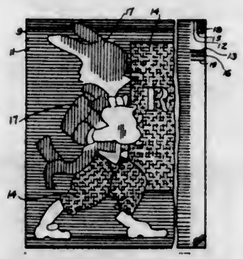
1. An amusement device comprising in combination a pair of figures simulating boxers, means to move said figures at the will of operators relative to each other, means to operate the arms of such figures to simulate boxing, an electrically controlled sustaining means to hold said figures erect, a plurality of electric switches disposed about the surface of said figures, and circuits associated with said switches to operate said electrically controlled means after certain of said switches have been actuated by blows thereupon.

1,781,308. HIGH-FREQUENCY DIFFERENTIAL TRANSFORMER. MAURITZ VOS, Stockholm, Sweden, assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden, a Company of Sweden. Filed May 29, 1929, Serial No. 367,093, and in Sweden May 30, 1928. 4 Claims. (Cl. 175—356.)



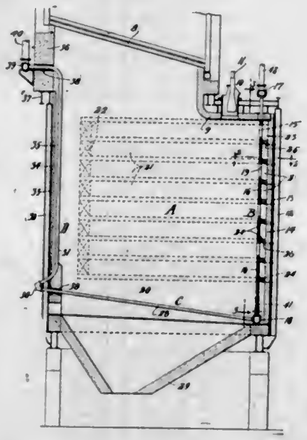
1. A transformer for high frequency oscillations comprising in combination two separate coils adapted to be connected to each one of the branches of a line circuit, each of said coils consisting of two series connected primary partial windings and two secondary partial windings which four partial windings are formed by parallel conductors of a twisted quad of a four-core cable, and means protecting each of the coils against capacitive influence of the other coil.

1,781,309. PRINTED-MATTER INDICATOR. WILLIAM FREDERICK WEIKEL, Baltimore, Md., assignor to United States Printing & Lithograph Company, Baltimore, Md., a Corporation of Ohio. Filed Oct. 3, 1929. Serial No. 397,136. 3 Claims. (Cl. 283—1.)



3. A sheet of material adapted to receive printed matter, and having a plurality of interposed images printed on said sheet, each of said images having a fixed indicium adjacent an edge of the sheet, one for each of said images, each bearing a fixed predetermined position with respect to the image corresponding thereto and to the edge of the sheet.

1,781,310. FINELY-DIVIDED-FUEL-BURNING FURNACE CONSTRUCTION. WILFRED R. WOOD, London, England, assignor to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed June 16, 1925. Serial No. 37,425. 2 Claims. (Cl. 122—235.)

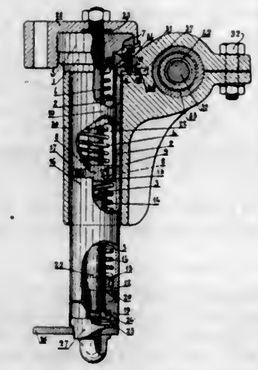


1. In a combustion chamber for burning finely divided fuel, a hollow wall comprising an outer wall portion, and an inner wall portion spaced away therefrom and comprising evaporating means, means for dividing the space therebetween into compartments and means independent of one of said walls providing a support for said space dividing means.

1,781,311. DEVICE FOR AUTOMATIC ADJUSTMENT OF LIGHT PROJECTORS. AUGUSTE EDMOND ADAM, Houilles, France. Filed Oct. 11, 1927, Serial No. 225,587, and in France Oct. 21, 1926. 6 Claims. (Cl. 240—61.)

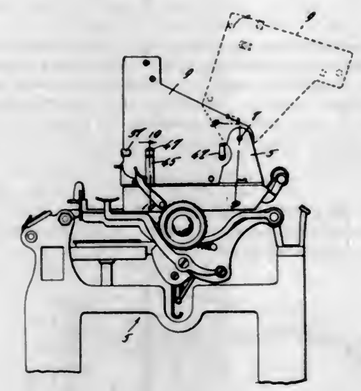
1. Dirigible headlight apparatus comprising steering rod actuated mechanism including a movable element, a headlight support having a shaft, a spring connected to said support, a second spring arranged reversely to the first named spring, a member mounted for rotation and

to which one end of the second spring is attached, a member mounted for limited rotation independently of the first named member and of the headlight support and to which both of said springs are attached, a manually operable member 26 arranged to normally hold the first named spring in tensioned condition and connecting means be-



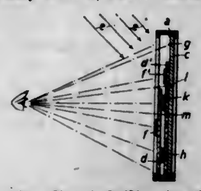
tween the movable element of the steering rod actuated mechanism and the second named revoluble member, said connecting means providing idle movement of said movable element in one direction under the tension of the second spring and turning said second named revoluble member and hence tensioning said second spring when said movable element moves in the reverse direction.

1,781,312. TYPEWRITER ATTACHMENT. JOHN HENRY BARTON, Miami, Fla., assignor to The Florida Copy-Writing Corporation, Miami, Fla., a Corporation of Florida. Filed July 11, 1929. Serial No. 377,437. 2 Claims. (Cl. 197—156.)



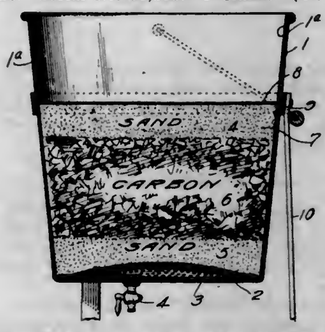
1. A typewriter attachment comprising a supplemental copy ribbon, a pair of members, said members being movable and having the ends of the ribbon attached thereto, springs for maintaining the members in ribbon retracted position and rack and detent means for maintaining the members in operated position, and connecting means between the members so that the same will be operated simultaneously, and eccentric means for limiting the operating movement of the members so that a predetermined half portion of the ribbon may be utilized.

1,781,313. PICTURE. FRITZ BLAU, Berlin-Charlottenburg, Germany. Filed Oct. 22, 1928, Serial No. 314,102, and in Germany Nov. 3, 1927. 5 Claims. (Cl. 41—22.)



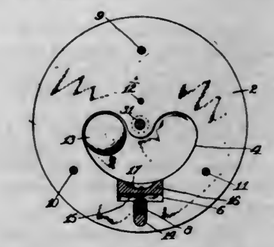
1. A picture for directed illumination, portions of the pigment of this picture being covered by a plurality of clear gray sheets, and a portion of the picture included between the sheets.

1,781,314. WATER PURIFICATION. MILLARD BRANDT, Tamaqua, Pa., assignor to Darco Corporation, Wilmington, Del., a Corporation of Delaware. Filed Mar. 29, 1926. Serial No. 98,385. 1 Claim. (Cl. 210—62.)



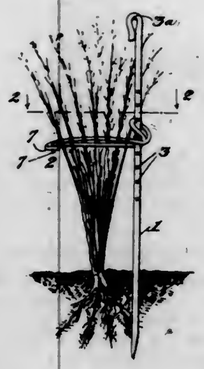
In the purification of water by activated carbon in a metal container, the improvement which comprises disposing the carbon in a pervious bed of highly activated, firm, electrically-conductive, oxygen-absorbing particles in said container and electrically insulating said container from said bed in such a way as to prevent the carbon from forming galvanic couples with oxidizable metals when the apparatus is in use and thus to make oxygen adsorbed by the carbon available for reaction with impurities in the water.

1,781,315. AUTOMATIC GRAVITY CUT-OFF-CONTROLLING APPARATUS. MARTIN C. BRIGHT, Indianapolis, Ind. Filed Aug. 22, 1925. Serial No. 51,790. 9 Claims. (Cl. 200—52.)



1. A cut-off controlling apparatus including a normally vertical base, a movable gravity-weight element, means co-operating with the base to support and guide the weight element for movement in either one of opposite directions on an arc, a switch lever pivoted on the base an electrical switch supported by the base, means on the base enabling the lever to operate the switch, and means on the base enabling the weight element upon movement in either one of the opposite directions to operate the switch.

1,781,316. PLANT SUPPORT. WILLIAM V. BROOKS, Des Moines, Iowa. Filed May 24, 1929. Serial No. 365,728. 4 Claims. (Cl. 47—47.)



1. A plant support, comprising a standard, and a plant-enclosing device upon said standard, said device comprising an expansible and contractible tiered double loop surrounding said standard, and plant surrounding jaws extending from one of said loops.

1,781,317. TREATMENT OF WASTE SPUN OR WOVEN TEXTILE MATERIAL. ADOLPH LIONEL BURLIN, London, England. Filed Oct. 26, 1929, Serial No. 402,810, and in Great Britain Nov. 2, 1928. 12 Claims. (Cl. 19—66.)

1. The process of treating waste spun or woven material containing artificial silk which comprises subjecting the material to the action of aqueous detergents and thereafter treating the same with an acid body including boric acid, and a carbohydrate.

1,781,318. BOX-CAR BRACE. JAMES AUGUSTUS BYINGTON, Orlando, Fla. Filed Apr. 29, 1929. Serial No. 358,973. 8 Claims. (Cl. 105—369.)

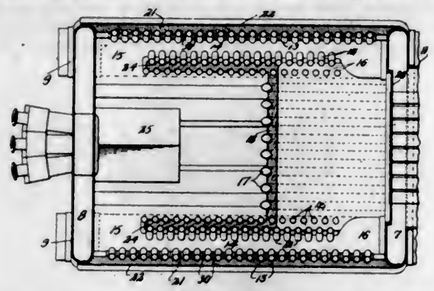


1. The combination with spaced walls of a load brace, said brace comprising hingedly engaged members adapted to engage the walls at obtuse angles to each other and to be moved into parallel relation and means for holding said members in parallel relation.

7. A load brace comprising a main bar, an extension bar, hinged connection between said main bar and extension bar, said hinged connection between the bars being variable in position, whereby the bars may be extended at different distances in relation to each other.

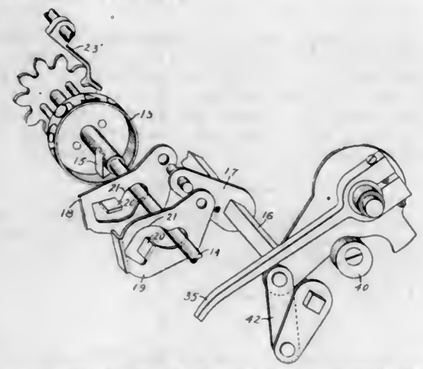
1,781,319. FINELY-DIVIDED-FUEL-BURNING LOCOMOTIVE. GEORGE W. CLENDON, Piermont, N. Y., assignor to International Combustion Engineering Corporation, a Corporation of Delaware. Filed Aug. 15, 1925. Serial No. 50,352. 6 Claims. (Cl. 122—9.9)

1. In a locomotive boiler, a fire box comprising front and rear water legs, upper and lower drums connecting the legs at opposite sides, sets of tubes spaced inwardly from the sides of the box connecting the respective upper and lower drums on each side, a water tube supported arch between said sets of tubes and extending substantially from the lower forward corner of the fire box diagonally toward the upper rear corner but terminating short there-



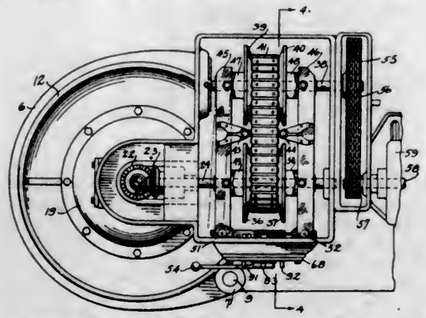
of together with a baffle supported by each of said sets of tubes and extending downwardly from the side edges of said arch.

1,781,320. ZERO-SETTING DEVICE. LORING P. CROSMAN, Maplewood, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a Corporation of Delaware. Filed Apr. 10, 1929. Serial No. 354,082. 8 Claims. (Cl. 235—144.)



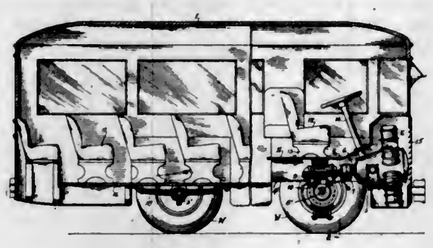
1. In a register having a shaft and a numeral wheel mounted thereon and provided with a projection; a clearing device including a pair of relatively movable projection-engaging members operating upon opposite sides of said shaft and collectively acting to bring a given character on said wheel from any radial position into registering position.

1,781,321. MIXING MACHINE. WALTER F. DEHUFF, Glen Rock, Pa. Filed May 4, 1929. Serial No. 360,577. 3 Claims. (Cl. 64—8.)



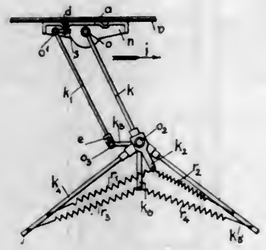
1. In a variable speed gear, the combination with a casing, two parallel shafts mounted therein, a spline on each shaft, a pair of cone-shaped driving elements held on each shaft by the spline and adated to slide toward and away from each other, a belt operably passing between the driving elements of said pairs, levers pivoted between said parallel shafts and operably connected each to one driving element of each pair, means for simultaneously oscillating both of said levers to cause the driving elements of one pair to approach while the driving elements of the other pair recede from one another, said means comprising a stub shaft, an operating handle at one end for rotating said shaft, a gear at the other end, fixed slides extending radially of the axis of said shaft, at diametrically opposite points, guides slidable on said slides, and rack bars engaging said gear and connected to said slides.

1,781,322. AUTOMOTIVE VEHICLE. ERIK H. DELLING, Snyder, N. Y., assignor to Supersteam Products, Inc., a Corporation of Delaware. Filed Jan. 17, 1929. Serial No. 333,143. 1 Claim. (Cl. 180—42.)



In a motor vehicle, in combination with front wheel driving mechanism including an axle, an engine having its crank shaft arranged substantially in the median longitudinal vertical plane of said vehicle and having a bank of cylinders of that type in which the cylinders all are intersected by a single plane perpendicular to the axis of rotation of the engine crank shaft, means supporting said engine with its cylinders forwardly of said axle, a cab forming an enclosing structure defining a driver's compartment and an engine housing, the foremost wall of which enclosing structure is directly forward of said engine, said enclosing structure including a floor positioned in a plane above said axle and intersecting said engine, and a driver's seat above said floor and rearwardly of said bank of cylinders.

1,781,323. CURRENT COLLECTOR FOR ELECTRIC RAILWAYS. JULIUS FISCHER DE TOVÁROS, Budapest, Hungary. Original application filed July 17, 1925, Serial No. 44,298, now Patent No. 1,744,622, dated Jan. 21, 1930, and in Hungary July 23, 1924. Divided and this application filed Oct. 29, 1929. Serial No. 403,268. 2 Claims. (Cl. 191—55.)



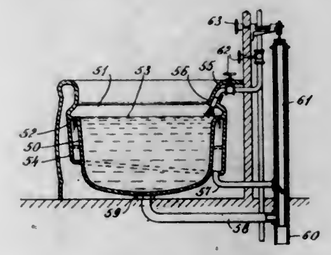
1. A current collector for electric railways embodying a sliding shoe provided with flat wide contact surfaces and mounted to oscillate on a frame adjusted at an acute angle to the trolley wire, which frame can be reversed on changing the direction of travel, characterized by a link parallelogram provided on one side of the frame or sliding loop capable of oscillation, two adjacent sides of which are formed by the shoe and the frame, and the other adjacent sides of which are formed by a tension or compression member and a controlling lever for the shoe, on which engages the return force.

1,781,324. HAIRPIN. CHARLES A. DIES, Chicago, Ill. Filed Feb. 26, 1929. Serial No. 342,764. 7 Claims. (Cl. 132—50.)



3. A hairpin the prongs of which are provided with pairs of oppositely disposed humps separated by openings through the prongs, an inwardly turned end on one of the prongs, and means on said inturned end with which the outer plain end of the other prong engages in closed position of the hairpin.

1,781,325. BATHTUB. ROBERT W. DOWLING, New York, N. Y. Filed Sept. 15, 1928. Serial No. 306,216. 3 Claims. (Cl. 4—173.)

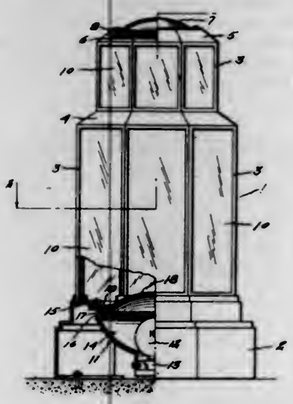


1. A bath tub provided with an inwardly opening substantially horizontally extending overflow channel having a plurality of discharge openings in its lowermost wall, and a drain conduit disposed below said overflow channel and adapted to receive liquid passing through said discharge openings.

1,781,326. COMBINED BEACON AND LANTERN. ISADORE FRIEDMAN, Roxbury, Mass. Filed Feb. 12, 1930. Serial No. 427,811. 3 Claims. (Cl. 240—1.)

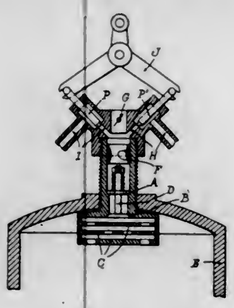
3. A combined beacon and lantern especially adapted for the illumination of gasoline stations and the like including a housing, said housing comprising a base and a metallic framework thereon, said framework having an opening in the top thereof, a reflector unit in said housing, the said base constituting a supporting means for said reflector unit; said reflector unit being adapted to project a concentrated vertical beam of light upwardly through the said top, and comprising a casing, a reflector mounted in said casing, and a floodlight lamp adjustably

mounted in said casing; means supported in the sides of said framework comprising glass panels adapted to diffuse that portion of the light flux from said lamp which is not con-



trolled by said reflector, whereby to provide for the general illumination of the surroundings of said housing, a cover glass for said opening, and a weatherproofing lens in said housing above said reflector unit.

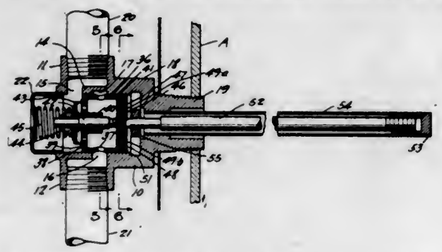
1,781,327. CARBURETOR FOR INTERNAL-COMBUSTION ENGINES SUPPLIED WITH HEAVY OIL. JOSEPH MARIE ARSENE GOINARD, St.-Nazaire, France. Filed Nov. 11, 1925, Serial No. 68,397, and in France Nov. 16, 1924. 8 Claims. (Cl. 123—31.)



1. A vaporizing carburetor for an internal combustion engine having an inlet tube for lighter fuel, a chamber surrounding said inlet tube for receiving heavier fuel, a passage common to both fuels in the bottom of said chamber, means whereby communication is afforded between the end of said passage opposite the end adjacent said chamber and the cylinder, the inlet tube being adapted to abut against the inlet end of said passage to close the admission of heavier fuel and means whereby said tube is moved axially.

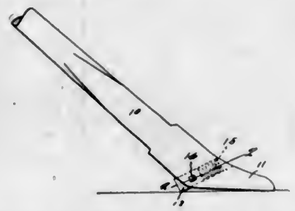
1,781,328. THERMOSTAT VALVE STRUCTURE. JOHN H. GRAYSON, Lynwood, Calif. Filed June 28, 1929. Serial No. 374,525. 9 Claims. (Cl. 236—48.)

1. A thermostat valve control structure comprising a casing having an inlet for supply of gas, an outlet for a main burner, a bore extending through said casing connecting said inlet and outlet, a bushing inserted in said bore dividing said casing into an inlet chamber and an outlet chamber connected respectively to said inlet and said outlet, a valve seat provided in said bushing for communication of said inlet and outlet chambers, a gas



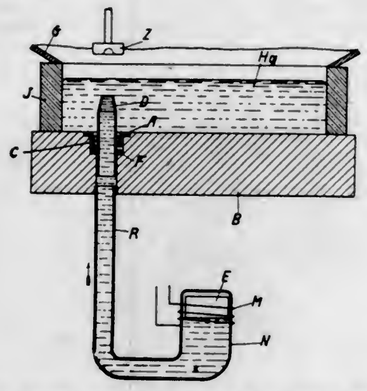
valve controlling the ports in said seat, said bushing having a ledge at its outer end adapted for seating thereon of a valve actuator.

1,781,329. PINCH BAR. HARRISON M. HOWE, Bradford, Pa. Filed Mar. 21, 1928. Serial No. 263,508. 2 Claims. (Cl. 254—36.)



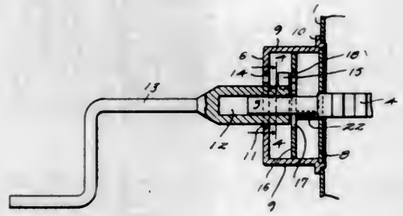
1. In a device of the class described, a shank portion a foot member carried thereby and having a bore extending therethrough, the bore being at an angle with the bottom of the foot member, a spur mounted in the bore, clamping means for retaining the spur, and independent means for determining the position of the spur with reference to the lower end of the bore, said means last named including a threaded device within the upper end of the bore, said clamping means and independent means respectively engaging the spur by movement laterally thereof and lengthwise thereof.

1,781,330. IGNITION DEVICE FOR MERCURY-ARC RECTIFIERS. JULIUS JONAS, Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri and Cie., Baden, Switzerland. Filed Mar. 18, 1929, Serial No. 348,029, and in Germany Mar. 19, 1928. 7 Claims. (Cl. 250—27.5.)



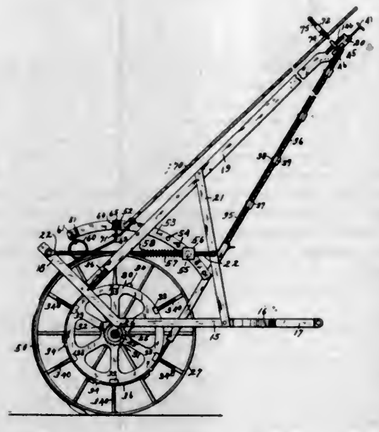
1. An ignition device for mercury arc rectifiers by means of which mercury is forced from a compression cylinder through an arrangement of piping against a rigidly fixed ignition anode placed above the surface of the cathode mercury, characterized by the formation of the nozzle forming the end of the system of piping which is such that the nozzle is free to move in the direction of the ignition anode under the influence of the mercury forced through it.

1,781,331. GRATE. AUGUST J. KOEPSELL, Mayville, Wis. Filed June 1, 1929. Serial No. 367,718. 5 Claims. (Cl. 126—181.)



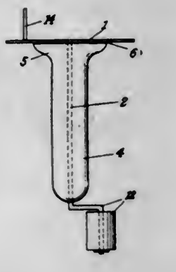
1. The combination with a grate having oscillatory bars each having an extension for engagement with a shaker handle, of a chambered casing inclosing each grate extension, a shaker handle formed to receive any one of said extensions and having a stop formed thereon, and means within the chambers of the casing for limiting the oscillatory motion of the handle and grate when the handle is in different positions upon the grate extension through engagement of said stop therewith, said means permitting more motion with the handle in one position than in another position.

1,781,332. HAY LOADER. MATTHEW G. KURTH, Madison, Wis., assignor, by direct and mesne assignments, to Master Machinery and Implement Company, Madison, Wis., a Corporation of Wisconsin. Filed Dec. 1, 1927. Serial No. 236,934. 16 Claims. (Cl. 56—359.)



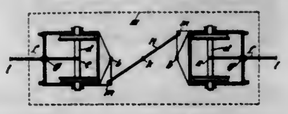
1. In a device of the character described, the combination with a set of wheels, of a reel mounted therebetween and operatively connected to be driven therefrom, a belt conveyor having an end encircling said reel, and a rake complementary to said reel and conveyor and provided with a mounting to which said rake is fulcrumed ahead of a vertical plane through the axis of said wheel and above a horizontal plane therethrough.

1,781,333. TOY. ERNST PAUL LEHMANN and KARL RUPPIN, Brandenburg-on-the-Havel, Germany, assignors to said Lehmann. Filed Feb. 7, 1928, Serial No. 252,619, and in Germany Jan. 23, 1926. 2 Claims. (Cl. 46—37.)



1. A toy for playing a game of skill, comprising in combination a vertical handle, having its upper end of greater diameter than the handle, a shaft extending axially through said handle and capable of rotating loosely therein, means carried by said shaft capable of being actuated by one hand for rotating the shaft continuously in the same direction while the handle is held substantially stationary with the other hand, and a rotatable disc or plate mounted on the top end of the shaft, on which articles capable of rolling can be placed when the disc is rotating, for imparting a continuous rotary motion to them, the top surface of the enlargement at the upper end of the handle being almost but not quite in contact with the under surface of the rotatable disc all round a circumference equal to at least half that of the said disc, as set forth.

1,781,334. TRACK VEHICLE. HERMANN LIECHTY, Bern, Switzerland, assignor to Wilhelm Kaufmann, Bern, Switzerland. Filed Sept. 15, 1927, Serial No. 219,736, and in Switzerland Sept. 25, 1926. 4 Claims. (Cl. 105—168.)

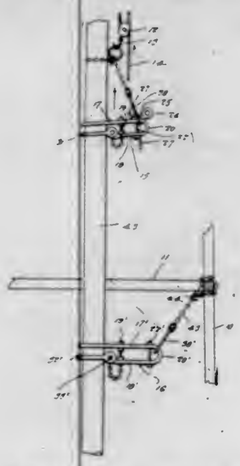


1. In a track vehicle, a vehicle frame, trucks pivoted at their inner ends to the vehicle frame, each truck being provided with a wheel axle, and a draw bar for each truck pivoted to the vehicle frame above the corresponding truck and pivotally connected with the latter whereby to effect swinging out of the vehicle frame towards the outer edge of track curves and adjustment of the trucks to dispose the wheel axles radially with respect to said curves.

1,781,335. PIPE GRAB. JOHN E. LYONS, Texhoma, Okla. Filed Aug. 23, 1929. Serial No. 387,923. 4 Claims. (Cl. 294—104.)

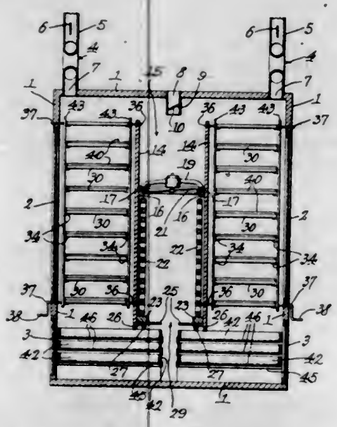
1. A pipe clamp comprising a U-shaped body portion having legs of unequal length, a cable slidably connected in the bight portion of the body portion, a clevis detach-

ably and pivotally engaged with the free end of the shorter leg, said longer leg having an arcuate concavity



on the free end, said concavity having a knife edge on its upper edge adapted to grip the pipe when the body is rocked on the clevis by the power applied to the cable.

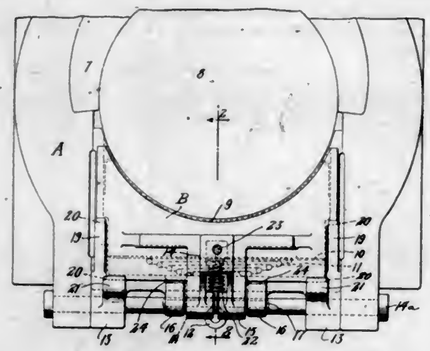
1,781,336. EGG HATCHER. LUTHER A. MARSHALL, Floydada, Tex. Filed Jan. 28, 1927. Serial No. 164,308. 3 Claims. (Cl. 119—35.)



1. In a device of the class described, a casing having longitudinally extended partitions defining an air passage spaced from the sides of the casing, means for creating a down-draft through the passage, baffles in the passage and defining a reduced throat through which the draft is discharged, egg holders located below the baffles and having a space between their inner edges, below the throat, and means for mounting the baffles, for adjustment, thereby to vary the width of the throat considered relatively to the space between the inner edges of the egg holders.

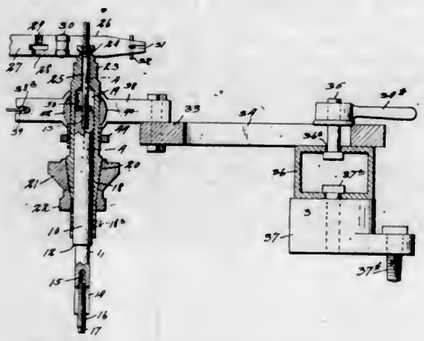
1,781,337. DRIVING-BOX LUBRICATOR. FREDERICK W. MARTIN, Brooklyn, N. Y., assignor to Franklin Railway Supply Company, a Corporation of Delaware. Filed Nov. 17, 1923. Serial No. 675,248. 8 Claims. (Cl. 308—88.)

8. In combination, a driving box lubricating cellar having cover plate engaging means thereon and a snap cover plate therefor displaceably secured thereto, said plate engaging said means when in closed position and being



adapted to be opened on displacement, and said cellar and plate being constructed to provide opposing surfaces spaced apart to permit insertion of a displacing tool.

1,781,338. VALVE-REAMING TOOL. GEORGE E. MOEN, Kelso, Wash. Filed Jan. 27, 1927. Serial No. 164,041. 13 Claims. (Cl. 90—12.5.)

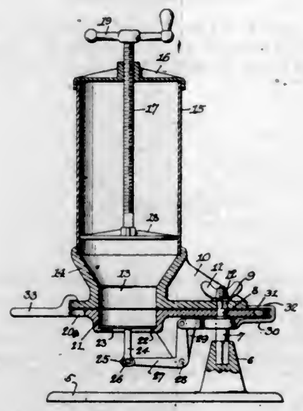


13. An implement of the character described including an arm having opposed relatively movable jaws hinged to the arm whereby said jaws may be shifted into an angular relation to each other which will permit the insert or removal of a tool carrier laterally between the jaws and said jaws having confronting seats, a tool carrier rotatably disposed between the jaws and in said seats means for shifting the tool carrier axially within the seats, and means for relatively adjusting the jaws toward or from each other, said means being releasable from one of said jaws to permit the jaws to be swung into a fully opened position.

1,781,339. HAMBURGER-CAKE-PRESSING MACHINE. WILLIAM H. OLIVER, Abilene, and OTTO L. PETERS and ALOYS A. STRUCKHOFF, Grinnell, Kans. Filed Feb. 24, 1930. Serial No. 430,838. 3 Claims. (Cl. 107—8.)

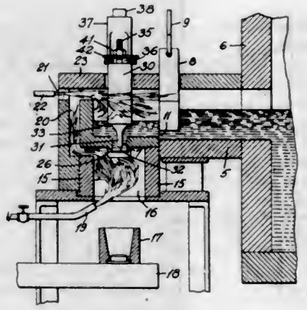
1. A machine of the class described comprising a base, a cylindrical container mounted on the base, said cylindrical container including a lower casting having a funnel-shaped contour, a pivoted member disposed under the cylindrical container and having an opening normally lying under the casting to receive material from the cylindrical container, a sliding pusher within the opening, a

bell crank lever connected with the sliding pusher, an arm connected with the bell crank lever, one end of the arm



engaging the casting to cause the arm to move when the pivoted member is rotated, and said pusher adapted to force material from the opening in the pivoted member.

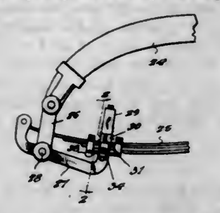
1,781,340. FEEDING MOLTEN GLASS. KARL E. PEILER, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Nov. 3, 1924. Serial No. 747,503. 18 Claims. (Cl. 49—55.)



18. Apparatus for feeding molten glass comprising a container for the glass having a downwardly-opening discharge outlet, means for externally heating said outlet, a normally stationary vertical flow-regulating member having a lower end of relatively small cross-sectional area adjustably positioned in said outlet and having, above said lower end, an enlarged portion adapted to throttle said outlet and to seat in said outlet on downward movement of the throttling member to stop the flow of the glass therethrough, and means for severing mold charges from the glass below said outlet.

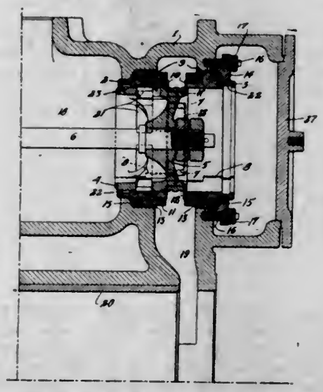
1,781,341. SHOCK ABSORBER. CYRIL F. REAGAN, Altoona, Pa. Original application filed June 14, 1928, Serial No. 285,492. Divided and this application filed June 11, 1929. Serial No. 370,118. 2 Claims. (Cl. 267—16.)

1. The combination with the side frame and spring of a vehicle, of an arm pivotally connected with the spring, means pivotally connecting the arm intermediate its ends with the frame, a loop carried by the free end of the arm and confining the spring, said loop having beveled faces



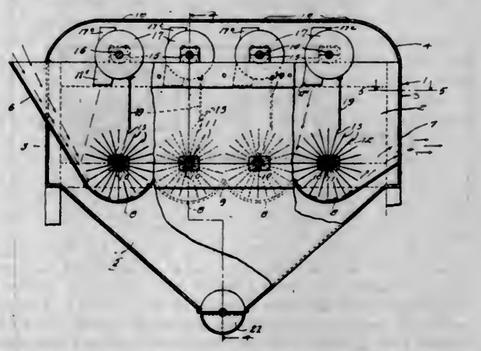
upon its sides, plates slidably engaged with said faces, a bolt connecting the plates, and means securing the bolt to the plates.

1,781,342. PISTON-VALVE AND BUSHING CONSTRUCTION. SAMUEL S. RIEGEL, Scranton, Pa. Filed May 25, 1927. Serial No. 194,152. 1 Claim. (Cl. 121—193.)



The combination of a valve chamber, a piston valve, a pair of split bushing members with opposed tapering surfaces on the exterior, a spacing member surrounding the bushing members between the opposed surfaces, said spacing member having tapered surfaces with which the tapered surfaces on the bushing members are adapted to co-operate, and means for applying endwise pressure to the bushing members to cause inward collapse thereof through the interaction of said tapered surfaces.

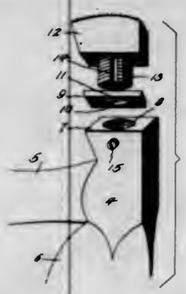
1,781,343. COTTON CLEANER. FLOYD D. ROAN, Newlin, Tex., assignor to F. D. Roan Machine Company, Newlin, Tex., a Corporation of Texas. Filed Apr. 23, 1929, Serial No. 357,550. Renewed Sept. 23, 1930. 4 Claims. (Cl. 19—72.)



1. In a cotton cleaning machine, a closed casing, a plurality of concave screens extending transversely of the

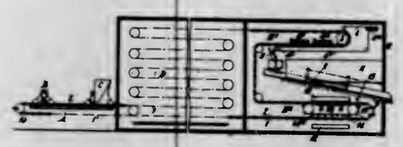
casing, beater cylinders operating in each of said screens to move the cotton from one end of the casing to the other over the screens, a dirt receiver beneath said screens, fans in the upper portion of the machine for delivering air downwardly against each of said cylinders for blowing the dirt from the cotton, and a curtain depending from each of said fans to a point in close proximity to the beater lying therebeneath and extending transversely of the casing whereby to divide the casing into a series of compartments.

1,781,344. RENEWABLE HEAD TOOL. JESS G. SALAZAR, Atwater, Calif. Filed July 18, 1929. Serial No. 379,229. 2 Claims. (Cl. 306—43.)



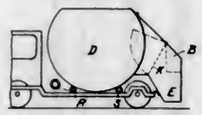
1. A nail driving tool comprising a handle-carried body projecting laterally from the handle axis and having a socket opening through its outer end, a compressible washer lying against said outer end of said body and having an opening alined with said socket, a nail driving head lying against the outer side of said washer and having an integral threaded stud passing through said opening and removably received in said socket, means for preventing relative turning of said washer and head, and means for locking said stud against accidental turning.

1,781,345. PLANT FOR MOLDING CREAMS AND THE LIKE. ROBERT SAVY, Courbevoie, France, and GEORGE RALPH BAKER and WILLIAM EDWARD PRESCOTT, London, England, assignors to Baker Perkins Company, Inc., Saginaw, Mich. Filed May 29, 1928, Serial No. 281,476, and in Great Britain July 1, 1927. 12 Claims. (Cl. 107—3.)



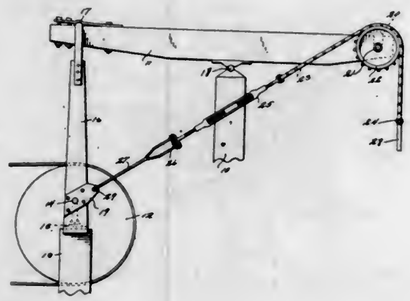
4. A plant for manufacturing creams by the aid of starch moulds into which the cream is deposited, comprising an endless conveyor adapted for continuous travel, a plurality of mould trays secured to the conveyor, a starch printing device comprising dies beneath which the mould trays travel, means for imparting transitional movement to the dies at the same speed as that of the moulds during the printing operation, a tray inverting device for inverting the trays to deliver the starch and creams to a separating device, and tray filling means whereat passing trays are continuously recharged with starch.

1,781,346. DUST CART. KARL SCHMIDT, Nuremburg, Germany. Filed Oct. 16, 1928, Serial No. 312,896, and in Germany Nov. 8, 1927. 5 Claims. (Cl. 214—67.)



1. Vehicle for the conveyance of dust and refuse, comprising a portable frame, a drum-shaped superstructure rotatably mounted in the frame with its axis arranged transversely to the longitudinal axis of the vehicle, a single filling opening at the rear part of the drum-shaped superstructure, a filling box at the rear part of the drum-shaped superstructure substantially extending over the entire width of the superstructure and forming during the filling operation a part together with the superstructure, the opening of the filling box registering with the opening of the superstructure and means for rotating the drum-shaped superstructure together with the filling box and automatically discharging the contents of the filling box into the superstructure.

1,781,347. LONG-STROKE PUMPING OUTFIT. ELIJAH D. SMITH and CHARLES S. MCINTYRE, Drumright, Okla. Filed Jan. 16, 1930. Serial No. 421,212. 8 Claims. (Cl. 74—14.)

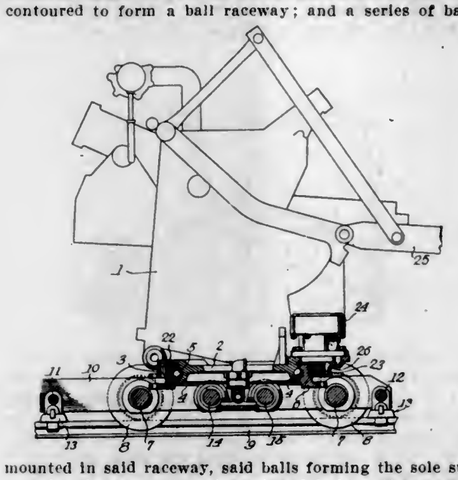


1. In combination with an oscillating beam having power means, flexible means secured at one end to said power means and at the opposite end to a pump rod, said flexible means being adapted to reciprocally engage said oscillating beam whereby to increase the stroke thereof imparted to said pumping rod, and means carried by said beam and engaging said flexible means whereby to permit reciprocation of said flexible means coactively with the oscillation of the beam.

1,781,348. TURNTABLE SUPPORT. HENRY H. TALBOYS, Milwaukee, Wis., assignor to Nordberg Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 31, 1928. Serial No. 266,323. 4 Claims. (Cl. 212—69.)

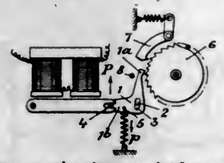
1. In combination a truck frame having a circular opening formed therein; a supporting element for a shovel or similar instrumentality, said support having a depending portion extending into the frame opening the opposing

vertically disposed faces of said frame and element being contoured to form a ball raceway; and a series of balls



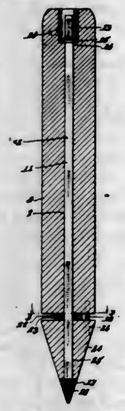
mounted in said raceway, said balls forming the sole support for the supporting element and locking the same to the truck.

1,781,349. PAWL. GUSTAV TAUSCHEK, Vienna, Austria. Filed July 13, 1928, Serial No. 292,425, and in Austria July 25, 1927. 4 Claims. (Cl. 74—54.)



1. In a feeding mechanism, a feed pawl formed as a pivoted angle lever which is shiftable relatively to its pivot for a distance corresponding to the feed movement, one arm of the angle lever transmitting its feed movement to the body which is to be fed, and means acting upon its other arm, for shifting and returning said pawl, the shifting and returning means being arranged in such a manner that the line in which the return force acts lies nearer to the pivot than the line in which the transmitting force acts.

1,781,350. TENT STAKE. ROSCOE AARON TAYLOR, Carbondale, Ill. Filed Apr. 26, 1929. Serial No. 358,257. 11 Claims. (Cl. 135—15.)



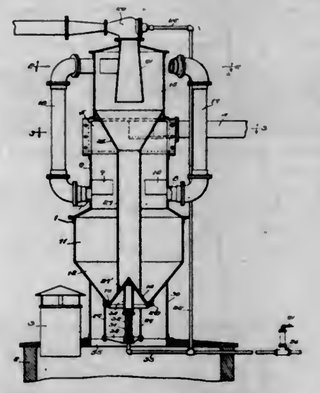
1. In a device of the kind described, in combination a sleeve, a rod within said sleeve, means to turn said rod relatively to the sleeve to present an additional element on said rod increasing resistance of said device to removal from the ground, and means to limit the turning of said rod relatively to said sleeve.

1,781,351. VIBRATORY SYSTEM. ALBERT L. THURAS, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 26, 1926. Serial No. 97,608. 11 Claims. (Cl. 274—35.)



1. A mounting for a vibratory element comprising a torsion member and tension members extending from opposite sides of said torsion member to prevent lateral deflection thereof and means for rigidly supporting one end of each tension member.

1,781,352. PNEUMATIC CONVEYER APPARATUS. EDGAR B. TOLMAN, Jr., and HANS BRUECKLER, Chicago, Ill., assignors to United Conveyer Corporation, Chicago, Ill., a Corporation of Illinois. Filed Dec. 19, 1927. Serial No. 241,153. 1 Claim. (Cl. 183—42.)

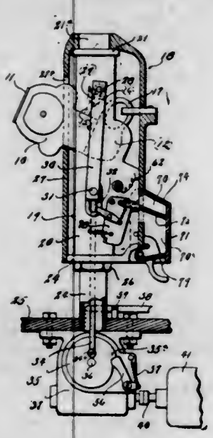


1. In a device of the kind described, a compartment for receiving and storing material conveyed by a fluid, said compartment having an outlet opening through which stored material discharges by gravity, fluid actuated means operable to separate the conveying fluid from the material conveyed, a closure member for said outlet opening, said closure member comprising a vertically movable valve having a downwardly projecting cylinder, a pipe line having one end forming a piston fitting within said cylinder and the other end connected with a supply of fluid under pressure, and valve means operable to control the flow of pressure fluid through said pipe line whereby said closure member opens by gravity when said valve means is closed and is lifted to seated position when said valve means is open.

1,781,353. COIN-CONTROLLED DRIVE FOR FARE REGISTERS. HERMAN E. TROJAHN, St. Louis, Mo. Filed Apr. 19, 1927. Serial No. 184,880. 16 Claims. (Cl. 194—6.)

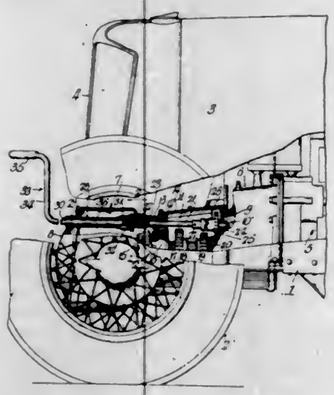
1. A coin controlled fare registering device comprising in combination with a register, means for resetting the

same, a prime mover for said resetting means, a clutching mechanism interposed between said resetting means and said prime mover, means for normally disengaging said clutching mechanism, an electro-responsive means for actuating, when energized, said disengaging means to release said clutching means, an electric circuit for energizing



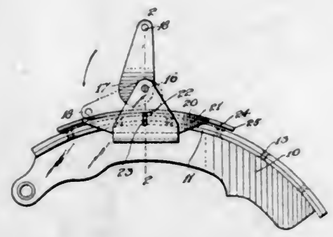
said electro-responsive means, a pair of spaced terminal contacts interposed in said circuit, said contacts being insulated from each other and adapted to be interconnected by a coin discharged by said register to cause the completion of said circuit, whereby said register is operated by said actuating means upon discharge of said coin.

1,781,354. STARTING-CRANK ARRANGEMENT FOR FRONT-DRIVE AUTOMOBILES. CORNELIUS W. VAN RANST, Auburn, Ind., assignor, by mesne assignments, to Manning & Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 9, 1929. Serial No. 345,796. 8 Claims. (Cl. 180—54.)



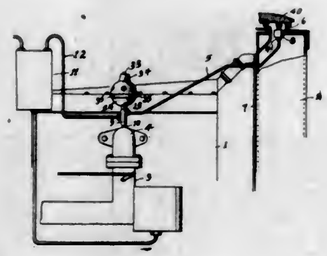
1. An automobile of the front wheel drive type embodying therein an engine and transmission and differential casings at the front end thereof in the order named, a shaft journalled in the transmission casing and capable of a limited longitudinal movement with respect thereto, a gear loose on one end of the shaft and operatively connected to the engine, the other end of said shaft being disposed in the differential casing and formed for engagement by a hand crank and means fixed on said shaft and adapted in one endwise movement of the shaft to engage said gear to rotatively lock the same thereto.

1,781,355. CLAMP FOR SEATING BRAKE LININGS. ALBERT H. WADELL, Newark, N. J. Filed Dec. 18, 1928. Serial No. 326,762. 4 Claims. (Cl. 29—84.)



1. A clamp for seating brake linings comprising a pair of members one of which is arcuate, means for moving the members toward each other to clamp lining to a brake shoe, one of said members being cut away to expose a brake lining for riveting.

1,781,356. VAPOR-SUPPLYING ATTACHMENT. PAUL F. WEST, Detroit, Mich. Filed Mar. 7, 1929. Serial No. 345,196. 18 Claims. (Cl. 123—25.)

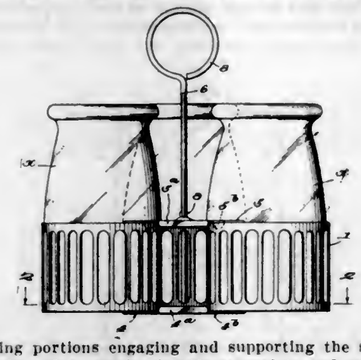


1. A vapor supplying attachment for internal combustion engines comprising, in combination, a conduit connected to a source of water vapor, and to the intake passage of the engine; and a sleeve with the upper end closed and having vents in side of said sleeve, and a metal lined float adapted to slide up and down on said sleeve to close or open said vents in said sleeve, and said sleeve adapted to be slipped over the upper end of said conduit to prevent liquid or water from entering said conduit, which leads from said source of moisture to a valve casing; said sleeve having an upper and a lower stop for said metal-lined float, and also a projection on the inner wall of said sleeve to prevent said sleeve from being slipped far enough over said conduit to close said ports in the side of said sleeve, and a suction operated valve interposed in said conduit, said valve being constructed and arranged to admit moisture to the intake passage only when the engine is operating at all speeds other than idling speed.

1,781,357. BOTTLE CARRIER. ROBESON B. WOLCOTT, Watertown, Conn., assignor to The Waterbury Button Company, Waterbury, Conn., a Corporation of Connecticut. Filed Sept. 18, 1929. Serial No. 393,416. 5 Claims. (Cl. 224—48.)

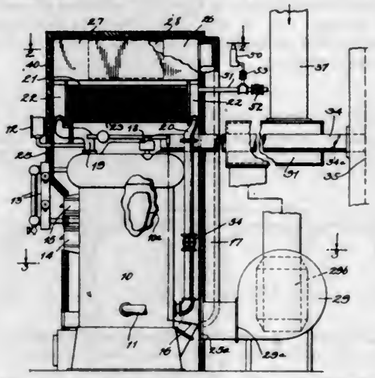
1. A bottle basket comprising a continuous strip having its ends secured together and bent to form a plurality of open ended loops symmetrically grouped around a common

center, a bottom plate engaging the lower edge of said strip at a plurality of points, said plate having upwardly



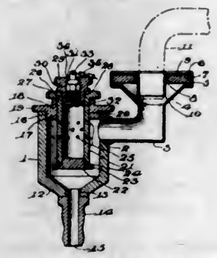
extending portions engaging and supporting the sides of said strip and a carrying handle secured to and extending upwardly from said bottom plate.

1,781,358. INSTALLATION FOR SUPPLYING AND CIRCULATING HEATED OR COOLED AIR. HARRY ZWERLING, Brooklyn, N. Y. Filed Apr. 21, 1926. Serial No. 103,599. 7 Claims. (Cl. 257—8.)



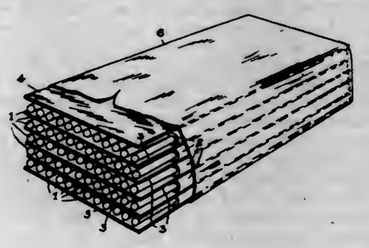
1. An apparatus of the character described including a steam generating means, spaced means for radiating the heat in the steam generated, a casing for enclosing said generating and radiating means, means for supplying air to said casing, the walls of said casing being spaced from the generating means to provide a passage for the air about the latter, said casing walls being fitted closely about the radiating means to direct all the air from said passage through said radiating means, and an air supply junction duct having a plurality of branches connected to said passage.

1,781,359. MIXING DEVICE. MAURICE ALLAND, Atlantic City, N. J. Filed Sept. 8, 1928. Serial No. 304,740. 3 Claims. (Cl. 299—84.)



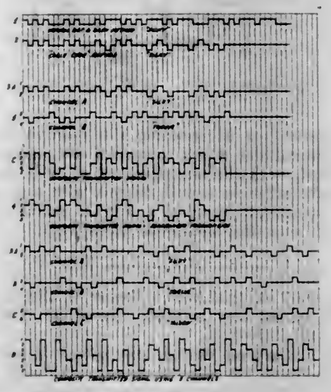
1. A mixing device, comprising a casing having an inlet, an outlet and an aperture, a closure for said aperture also provided with an aperture, a cylindrical container longitudinally reciprocable in said closure aperture, and provided with perforations to permit fluid entering said inlet to pass into said cylinder from within said casing and thence again into said casing and through said outlet, means to positively maintain said container in operative position until removed therefrom, means to limit the outward movement of said container, said container being automatically moved into and maintained in inoperative extended position, upon the release of said first means, by fluid pressure within said casing, and means to seal the connection between said casing and said container while in inoperative position.

1,781,360. METHOD OF PACKING WELDING RODS AND A BUNDLE FOR THE SAME. JAMES C. ARMOR, West View, Pa. Filed Feb. 1, 1928. Serial No. 251,201. 2 Claims. (Cl. 206—46.)



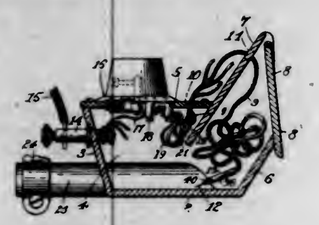
1. The method of forming welding rods, which are coated with flux and a binder, into packages for storage and shipment, which comprises arranging the rods together in layers while the flux and binder are still plastic and allowing the flux and binder to dry so that the rods are cemented together, and forming a bundle of said layers by stacking the same with strips of protective material interposed between the layers to secure the stacked layers together.

1,781,361. METHOD OF SIGNALING. LOYD A. BRIGGS, Cranford, N. J., assignor to Radio Corporation of America, a Corporation of Delaware. Filed Aug. 13, 1928. Serial No. 299,219. 9 Claims. (Cl. 178—51.)



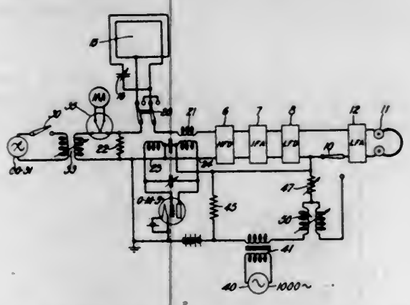
1. The method of increasing the speed of signaling which includes signaling simultaneously on a plurality of channels and utilizing the spacing time of one channel as the marking time of another channel.

1,781,362. ELECTROLYSIS DEVICE. JOSEPH BRIGIDA, New York, N. Y. Filed Feb. 12, 1930. Serial No. 427,718. 1 Claim. (Cl. 174—89.)



In a device of the character set forth, the combination of a casing composed of a bottom and sides and an apertured flat top wall, an apertured wall at one side of the casing inclined upwardly from the adjacent flat top wall, a lid hinged to the upper part of said inclined wall and normally extending downward to engage the end walls and a short lower side wall to thereby close the casing, a set of cables inside of the casing, an electrolytic needle on the free end of each cable, a binding post in the rear wall of the casing to carry one conductor into the cables, said cables passing upwardly through the flat top at openings therein and thence through openings in the said inclined wall to bring the cables back into the casing, whereby upon raising the hinged lid the cables can be withdrawn from the casing for use and the available length of the cables can be adjusted by drawing them forward and back through the said inclined wall.

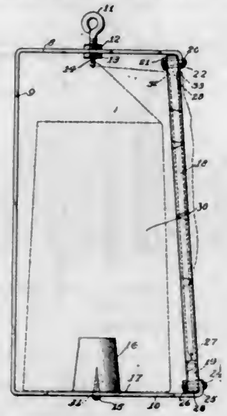
1,781,363. ELECTRICAL TESTING SYSTEM. EDMOND BRUCE, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed July 6, 1927. Serial No. 203,744. 14 Claims. (Cl. 250—20.)



1. The method of determining the relative values of two wave magnitudes which comprises comparing one, by a null method, with the magnitude of a given wave, and comparing the other, by a null method, with a given wave having a magnitude bearing a known relation to the magnitude of said first mentioned given wave.

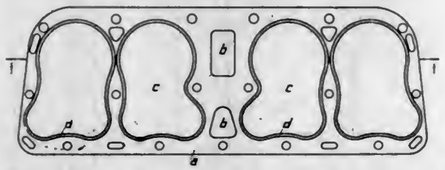
1,781,364. TWINE HOLDER. HENRY P. BULKLEY, Oak Park, Ill. Filed May 3, 1928. Serial No. 274,773. 1 Claim. (Cl. 242—143.)

A twine dispensing device, comprising a supporting frame, said frame including a sheet metal strip of substantially U-shape having oppositely extending attaching flanges, a non-circular tubular member forming one of the sides of said frame, said tubular member being secured to said attaching flanges, a supporting disc and a core for receiving and supporting a cop of twine, a threaded supporting member carried by said frame and a nut having an eyelet attached thereto carried by said threaded supporting member, a weight having an eyelet, said weight being slidably mounted in said tubular member and said weight having a cross-section complementary to the interior section of said tubular member, and said tubular member



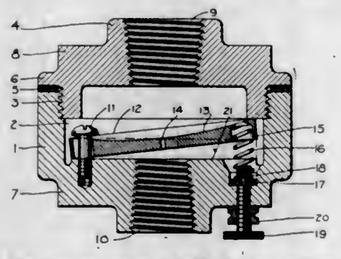
having a pair of substantially aligned holes whereby the twine may be looped about the eyelet carried by said nut, passed through one of said holes, through the eyelet of said weight, and through the other of said holes to dispense said twine uniformly.

1,781,365. PACKING OR TIGHTENING PLATE. ROBERT BURGMANN, Dresden, Germany. Filed Oct. 23, 1928, Serial No. 314,522, and in Germany Apr. 12, 1928. 1 Claim. (Cl. 288—1.)



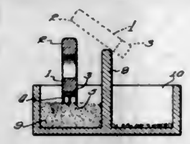
For use in internal combustion engines having gas and water passages wherein it is desirable to have the gas passages sealed against high pressures and the water passages sealed against leakage, a gasket comprising an asbestos plate having both gas and water passages therein, and metallic flange members lining the rims of the gas passages in said plate to resist gas pressure, the water passages of said plate being free from any lining member to provide a packed joint.

1,781,366. PRESSURE-ACTUATED VALVE. ANTON CAMPULA, Garfield Heights, Ohio. Filed Dec. 9, 1929. Serial No. 412,810. 2 Claims. (Cl. 251—123.)



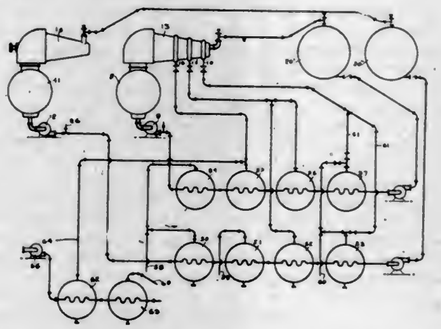
1. A valve comprising a casing, a disk therein loosely connected to the casing near one edge and opening toward the inlet to the casing and adapted to close under abnormal flow, and a spring between the disk and the casing, tending to hold the disk in open position, the disk having a port permitting a restricted flow under all conditions.

1,781,367. PORK-LOIN BRANDER. CALVIN P. COOK, Arlington, Mass., assignor to Swift and Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 19, 1930. Serial No. 429,646. 5 Claims. (Cl. 101—32.)



1. The method of branding meat which consists in cutting the identification marks into the surface of the meat and simultaneously applying a powdered pigment to the cuts.

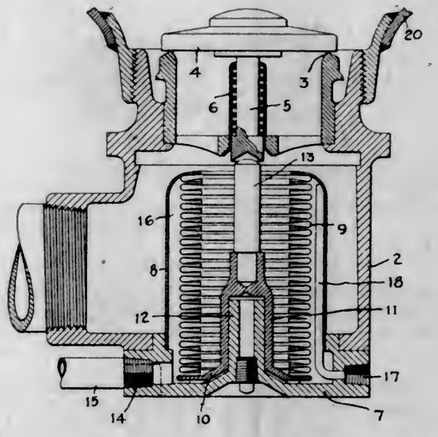
1,781,368. POWER PLANT. ARCHER DAVIDSON, Brighton, Mass., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 23, 1925. Serial No. 17,702. 15 Claims. (Cl. 60—67.)



15. In a power plant, the combination of a first turbine installation comprising a turbine, a boiler supplying motive fluid thereto, a series of heaters for heating motive fluid supplied to the boiler and a condenser for the turbine, a second turbine installation including a turbine, a boiler supplying motive fluid thereto at a pressure higher than in the first turbine installation, a series of heaters for heating the feed water supplied to the second-mentioned boiler, and a condenser for the second-mentioned turbine, means for extracting partially expanded motive fluid from the turbine of the second installation and supplying the same to at least one heater in each series as heating fluid, the condenser of the second turbine condensing the motive fluid discharged therefrom and not utilized as heating fluid, and means for utilizing the available heat from a power plant auxiliary in another heater of the second installation.

1,781,369. HYDRAULICALLY-OPERATED TANK VALVE. AUGUSTINE DAVIS, Jr., Cincinnati, Ohio. Filed Jan. 3, 1929. Serial No. 330,125. 1 Claim. (Cl. 137—156.5.)

A hydraulically operated tank valve comprising the combination of an external body applied to an an outlet from the tank, a spring-seated valve member normally closing the entrance to said body, a detachable plate closing the bottom of said body, a casing carried by said plate inside the body, a tubular metal bellows inside said casing and secured thereto at the upper end, a head secured to the lower end of said bellows, a thrust member connected with said head for unseating said valve member, said plate having two openings through it, an operating



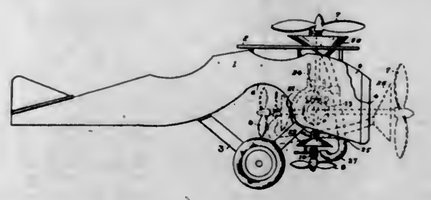
line connected to one of said openings, a closure for the other of said openings, and a vent tube extending upward from the latter opening to the top of the space between said bellows and said casing.

1,781,370. PROCESS FOR MANUFACTURING RAW-CAOUTCHOUC PLATES. HERMANN DEBOR, Munich, Germany. Filed Feb. 11, 1927, Serial No. 167,569, and in Germany Jan. 26, 1925. 4 Claims. (Cl. 154—2.)



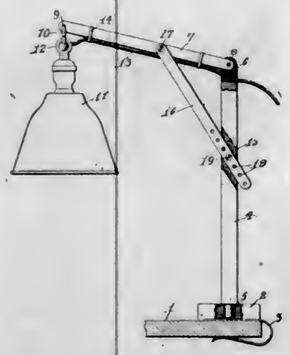
1. The herein described process of manufacturing reenforced rubber plates, consisting in applying substantially uniform pressure about the entire periphery of each cord to reduce the diameter of said cords to less than their normal diameter and embedding such cords of reduced diameter in a rubber plate.

1,781,371. AEROPLANE. CHARLES P. DELO, Knox, Pa. Filed Sept. 10, 1928. Serial No. 304,857. 4 Claims. (Cl. 244—15.)



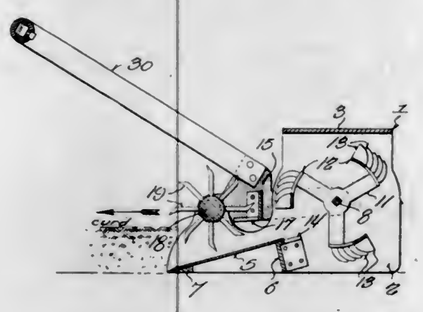
1. In an aeroplane of the character described, the combination with an aircraft structure of suitable form, of a propeller operatively mounted in said aircraft structure, said propeller being adjustable to dispose same approximately perpendicularly at the forward end of said aircraft structure or approximately horizontally above the top of the latter or at any angle between said perpendicular and horizontal positions, and means adjustable with said propeller for conveying and directing air currents generated by the operation of the latter to impinge against said aircraft structure at a point remote from said propeller.

1,781,372. LIGHT SUPPORT. GEORGE DENECKE, Milwaukee, Wis. Filed June 5, 1929. Serial No. 368,583. 1 Claim. (Cl. 240—81.)



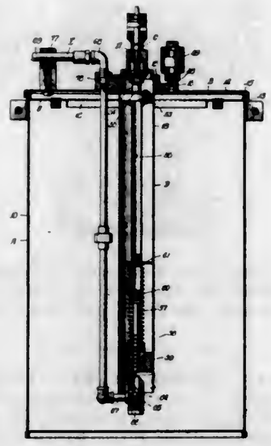
A light support including an upright standard having a diagonal cut away portion adjacent its upper end, spaced ears at the upper end of the standard, an arm having one end pivotally mounted between the ears and adapted to project laterally from the standard, a brace member having one end pivotally connected to the arm and the other end movable through the diagonal cutout portion and provided with a plurality of spaced openings, a removable pivot pin carried by the standard and adapted to be positioned in any one of said openings for maintaining the arm in various positions relative to the standard, spaced guide loops carried by the arm and a light suspended from the outer end of the arm and having a cord projecting therefrom adapted to be passed out through the guide loops and between the spaced ears on the standard for maintaining the cord in position above the light and to prevent the same from dropping down onto the work beneath the light.

1,781,373. CURD-WORKING MACHINE. JOHN J. DERFUS, Appleton, Wis. Filed Mar. 26, 1930. Serial No. 439,104. 12 Claims. (Cl. 31—48.)



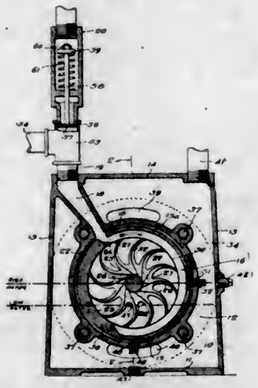
11. A curd working machine comprising a portable frame for support upon the bottom of a cheese vat, means for manually guiding and propelling the frame along the bottom of the vat, a cutter or mixer carried by said frame and provided with radial fins, means for stripping said fins, an inclined plate for elevating and directing curd to said cutter or mixer, a pair of spaced arms pivotally mounted upon said frame, a driven toothed drum carried by said arms and positioned above said inclined plate, and means carried by said arms for cleaning the teeth of said drum.

1,781,374. HIGH-PRESSURE GREASE GUN. LEO DEUTSCH, Beaver, Pa., assignor, by mesne assignments, to The Wayne Pump Company, Baltimore, Md., a Corporation of Maryland. Filed July 18, 1927. Serial No. 206,574. 7 Claims. (Cl. 221—47.1.)



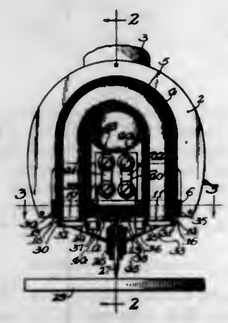
2. A dispensing unit for lubricant containers including a top adapted to be secured to said container, said top supporting cylinders extending into said container, a low pressure piston and a high pressure piston controlled by said low pressure piston, said pistons being operatively associated with said cylinders, means cooperating with said high pressure piston whereby lubricant may be forced out of said container, fluid operating means for said low pressure piston comprising a fluid connection, an operating valve movable by a movement of translation, means for operating said operating valve, said last named means including a pivotally mounted cam engaging said valve for controlling operation thereof, said cam having an elongated member for remotely operating said cam from any of a plurality of directions.

1,781,375. ROTARY AIR PUMP. LUCIAN F. EASTON, La Crosse, Wis. Filed Sept. 3, 1929. Serial No. 390,158. 10 Claims. (Cl. 230—75.)



1. In a rotary pump of the class described, the combination of a casing providing an inner rotor chamber and an outer chamber, means for affording a discharge of liquid from the rotor chamber into the outer chamber, means for affording a duct for liquid from the lower portion of the outer chamber to the rotor chamber, a rotor within the rotor chamber adapted to draw in air or gas to the rotor chamber and expel the same therefrom through the action of the liquid associated with the rotor in the normal operation of the device, and to maintain lower pressure conditions within the rotor chamber during normal operation than in the outer chamber, and means for admitting excess of air or gas to the system to substantially equalize pressure conditions within the rotor chamber and the outer chamber, with a resultant discharge of liquid from the rotor chamber into the outer chamber to lower the liquid level in the rotor chamber below that required for effective operation, the liquid duct affording a passage for the return of liquid from the outer chamber to the rotor chamber after admission of extraneous air or gas is cut off.

1,781,376. ELECTRODYNAMIC SOUND RECORDER AND REPRODUCER. BERT E. EISENHOUR, Aurora, Ill., assignor, by mesne assignments, to United Reproducers Corporation, St. Charles, Ill., a Corporation of New Jersey. Filed Sept. 24, 1928. Serial No. 307,949. 10 Claims. (Cl. 179—100.41.)



5. An electrical recorder and reproducer, comprising magnetic poles having air gaps, coils in said gaps, a support for the coils, and means for oscillatably supporting the support whereby the coils may move in said gaps, and a stylus associated with said support.

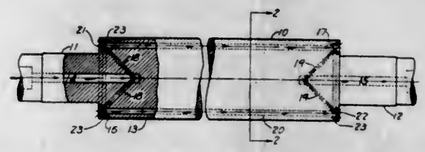
1,781,377. NECKTIE. WILLIAM EYERNSCHMALZ, Milwaukee, Wis. Filed May 3, 1929, Serial No. 360,182, and in Germany May 3, 1928. 4 Claims. (Cl. 2—153.)



1. A necktie comprising a body portion having a recess in its inner side, said recess having ribbed yielding side walls, and a collar button having a ribbed head which is adapted to enter said recess, said recess permitting vertical adjustment of the necktie on said collar button, and said ribbed yielding side walls of the recess being adapted to grip the collar button to securely hold the necktie in any adjusted position.

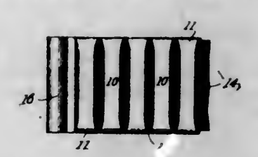
1,781,378. CALENDER ROLL. JOSEPH P. FEENEY, Kearny, N. J., assignor to Congoleum-Nairn, Inc., a Corporation of New York. Filed Apr. 23, 1928. Serial No. 272,019. 1 Claim. (Cl. 154—20.)

A linoleum calender roll formed of a single solid casting having a chill hardened surface, inlet and outlet openings concentric with the axis thereof, annular grooves formed at the respective ends of the roll, openings communicating between the inlet and outlet and each respectively adjacent annular groove, a plurality of small diameter passages



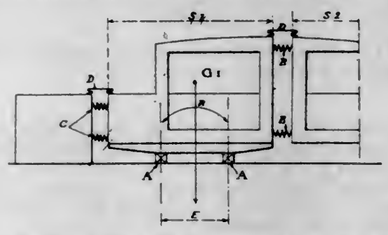
communicating between the annular grooves and positioned parallel to the axis of the roll and adjacent to the periphery thereof, and means for closing the open sides of the annular grooves to form annular chambers.

1,781,379. FLEXIBLE METALLIC STRAP. WILLIAM FORSTNER, Irvington, N. J., assignor to Forstner Chain Corporation, Irvington, N. J. Filed Dec. 20, 1928. Serial No. 327,305. 1 Claim. (Cl. 63—11.)



An ornamental metallic strap comprising a band of wire mesh in combination with a plurality of panel-forming substantially flat plates, the opposite ends of the plates being bent over and around both edges of the wire mesh band, while the intermediate portions of the plates are cut away so that successive pairs of adjacent cut-away portions form a row of windows through which the mesh of the band is visible, for producing a contrasting effect with the panel-forming plates.

1,781,380. VEHICLE BODY. ELLERY IRVING GARFIELD, Paris, France. Filed June 21, 1928, Serial No. 287,188, and in France July 19, 1927. 2 Claims. (Cl. 296—35.)

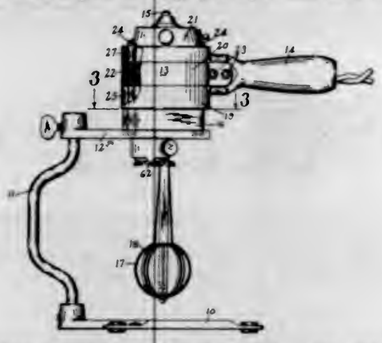


1. The combination with a vehicle chassis, of a vehicle body comprising a main body section and a dash or hood section, the main body section comprising a plurality of individual sections, said sections being individually mounted on the vehicle chassis and resilient connections between said sections to permit relative lateral and longitudinal displacement thereof.

1,781,381. MIXING APPARATUS. ALFRED C. GILBERT, North Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Maryland. Filed Feb. 20, 1929. Serial No. 341,411. 24 Claims. (Cl. 259—131.)

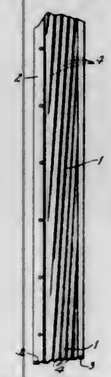
1. In apparatus for mixing and heating an electric motor having a casing and an armature shaft extending from said casing, gear housing secured to one end of said motor casing and having a bearing member in which said arma-

ture shaft is journaled, a beating element detachably secured to said gear housing, gearing within said housing



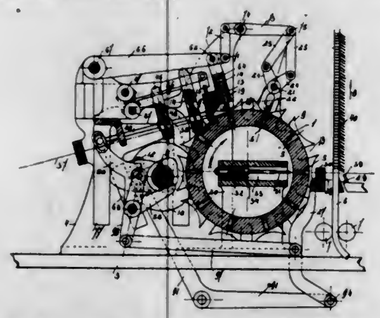
in engagement with said armature shaft, and means between said gearing and said beating element to drivingly connect the same.

1,781,382. WEATHER STRIP. JOHN A. GOELLNER, St. Louis, Mo., assignor to Monarch Metal Weatherstrip Corporation, St. Louis, Mo., a Corporation of Missouri. Filed July 31, 1929. Serial No. 382,326. 5 Claims. (Cl. 20—69.)



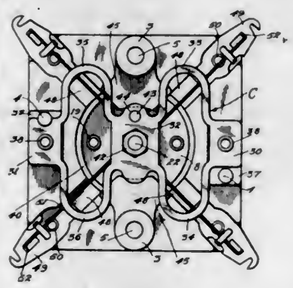
1. A metal weatherstrip comprising a body portion having oblique longitudinal corrugations therein.

1,781,383. MACHINE FOR THE MANUFACTURE OF CARD CLOTHING. JEAN GOHY, Spa, Belgium, assignor to Despa & Fils (Société en Commandite Par Actions), Verviers, Belgium, a Company. Filed Sept. 7, 1929, Serial No. 390,898, and in Belgium Sept. 7, 1928. 12 Claims. (Cl. 140—98.)



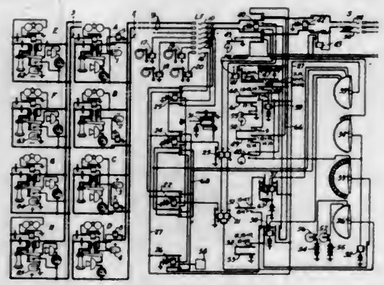
1. In an insertion machine for manufacture of card clothing in combination, a rotary drum pierced along generatrices with rows of holes the number of which in each row corresponds to the number of pairs of teeth which should be arranged on the card clothing, a feeding device for the wires, a cutting device for the latter and means whereby all the teeth in one row in the width of the foundation are inserted simultaneously.

1,781,384. SOCKET. MARTIN B. GROUT, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 27, 1926. Serial No. 137,911. 11 Claims. (Cl. 173—328.)



1. A device of the character described comprising a base, means for holding an audion tube, a resilient member secured at its respective ends to said base, comprising double loop portions connecting said respective ends, means for securing the said holding means to said resilient member intermediate of the ends of said resilient means whereby said holding means is resiliently supported from said base.

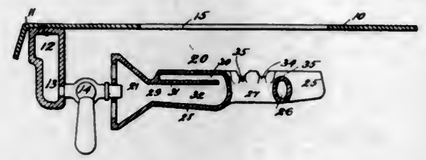
1,781,385. TELEPHONE-EXCHANGE SYSTEM. ALFRED E. HAGUE, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 30, 1929. Serial No. 351,203. 7 Claims. (Cl. 179—9.)



1. In a telephone system, a line having a plurality of subscribers' stations, one of which is a calling station, means at each of said stations for creating an unbalanced condition of the two sides of the line, and means including differentially-wound polarized relays for testing the line to determine the calling station.

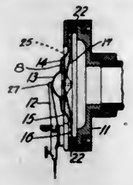
1,781,386. TOP BURNER FOR GAS STOVES. JOHN Z. HARNER and HARRISON S. SCHWEINHART, Boyertown, Pa., assignors to The Union Manufacturing Company, Boyertown, Pa., a Corporation of Pennsylvania. Filed Mar. 3, 1928. Serial No. 258,985. 4 Claims. (Cl. 158—116.)

1. An integrally formed top burner for gas stoves comprising a burner head having a central secondary-air opening and a surrounding annular mixing chamber provided with radiating burner arms, and a communicating mixer head having a neck connection to said annular chamber with a primary-mixing chamber portion thereof underlying one of said burner arms and partitioned therefrom,



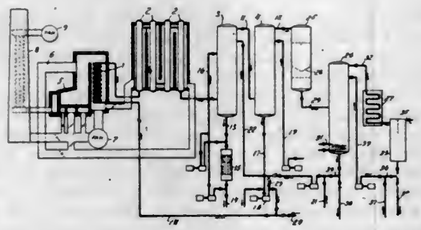
and a throat portion adjacent the end of said arm; each of said radiating arms having a burner-port wall above the level of the connecting portions of said annular chamber, and said lower-level connecting portions having burner ports directed convergingly above said central opening.

1,781,387. DIAPHRAGM. HENRY C. HARRISON, Port Washington, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed July 31, 1926. Serial No. 126,313. 17 Claims. (Cl. 181—32.)



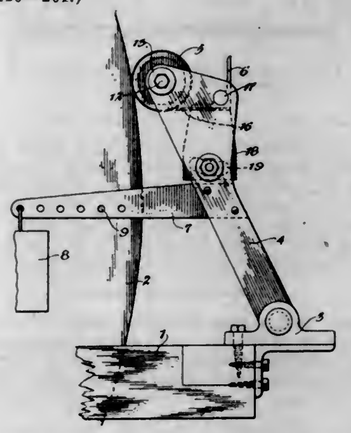
1. A diaphragm having a plurality of pyramidal elevations formed therein, and means for holding the apices of said elevations in fixed spaced relation with respect to each other.

1,781,388. ART OF REFINING HYDROCARBONS. EUGENE C. HERTHEL, Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y., a Corporation of Maine. Filed Feb. 29, 1928. Serial No. 257,958. 1 Claim. (Cl. 196—96.)



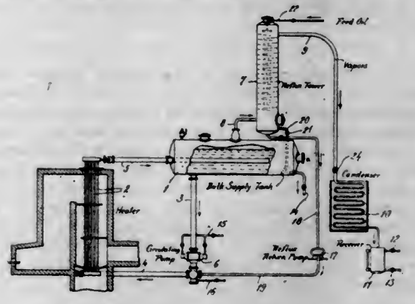
In refining cracked gasoline in vapor phase by passage of the gasoline vapors through an adsorptive catalyst where the polymers produced by the vapor-catalyst contact exceed 3% by liquid volume of the refined gasoline product after separation of such polymers, the improvement which comprises passing the raw cracked gasoline vapors in vapor phase through the adsorptive catalyst and thereby polymerizing unsaturated constituents unsuitable as components of the refined gasoline product without separation or discharge of such polymers from the operation, then passing the total resulting vapor mixture including such polymers directly to a rectifying zone condensing constituents including polymers higher boiling than suitable as components of the refined gasoline and vaporizing light components from the condensed polymer mixture in said rectifying zone, causing the vapors introduced to said rectifying zone to pass upwardly therethrough from the point of introduction in contact with the condensates formed therein, causing the condensed polymer mixture to pass downwardly through said zone from the point of introduction in contact with vaporized constituents liberated in said rectifying zone, and condensing the vapors escaping uncondensed from the rectifying zone to form the refined gasoline product.

1,781,389. FILTER DISCHARGER. CLARK C. HERITAGE, Buffalo, N. Y., assignor to National Aniline & Chemical Co., Inc., New York, N. Y., a Corporation of New York. Filed Nov. 30, 1925. Serial No. 72,160. 3 Claims. (Cl. 210—201.)



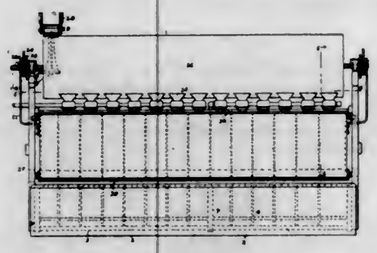
1. A method of removing a filter-cake of pasty material from a continuous drum filter which comprises contacting said cake with a moving body of said material, whereby the cake is removed by cohesion with the body of material.

1,781,390. CRACKING OF OILS. EUGENE C. HERTHEL, Chicago, Ill., and EDWARD W. ISOM, Locust Valley, N. Y., assignors to Sinclair Refining Company, Chicago, Ill., a Corporation of Maine. Filed Jan. 7, 1925. Serial No. 966. 4 Claims. (Cl. 196—59.)



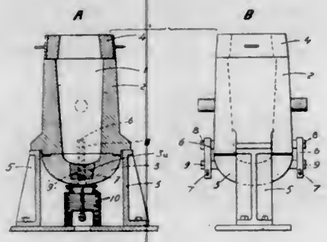
1. The improved method of cracking hydrocarbon oils, which comprises maintaining a body of the oil in a bulk supply tank, withdrawing oil therefrom and mechanically forcing the oil so withdrawn through a heater located away from the bulk supply tank and back to the bulk supply tank, maintaining the oil at a cracking temperature throughout the cycle, passing the vapors escaping from the bulk supply tank through a reflux tower, and pumping the reflux from the reflux tower into the oil circulating from the bulk supply tank to the heater between the mechanical forcing means and the heater.

1,781,391. METHOD AND APPARATUS FOR TREATING FABRICS WITH LIQUIDS. FLORENT HINNEKENS, Paterson, N. J., assignor to Van Vlaanderen Machine Company, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 25, 1927. Serial No. 171,054. 6 Claims. (Cl. 8—19.)



1. In combination, a vat containing a liquid in which to immerse the fabric being treated, means to support and advance lengthwise of itself around a substantially horizontal axis a length of fabric having a portion thereof depending into the liquid in said vat, and means to shift back and forth in said liquid in said vat the depending portion of such length of fabric while being advanced.

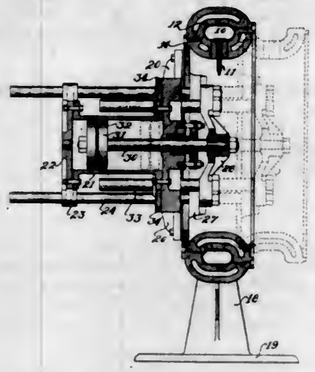
1,781,392. MOLD FOR CASTING INGOTS OF STEEL OR OTHER METALS. AXEL GUSTAF EMANUEL HULTGREN, Soderfors, Sweden. Filed Feb. 11, 1929, Serial No. 339,119, and in Sweden Feb. 22, 1928. 5 Claims. (Cl. 22—139.)



1. A mold body having a downwardly tapered ingot casting cavity, a depressible bottom for said cavity adapted to allow sinking of the ingot after initial peripheral freezing has occurred, thereby maintaining contact between the mold and the ingot, releasable means for securing said bottom against the mold during said initial peripheral freezing of the ingot, and yieldable means for supporting said bottom after release of said releasable means, said yieldable means exerting an upward force greater than the downward force exerted by the weight of the bottom but materially less than the downward force exerted by the weight of the ingot.

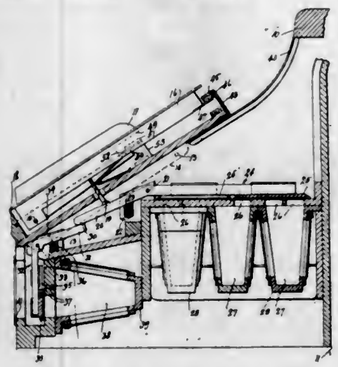
1,781,393. UPRIGHT INNER-TUBE MOLD. RALPH W. HUTCHENS and ARNOLD R. KRAUSE, Eau Claire, Wis., assignors to Gillette Rubber Co., Eau Claire, Wis., a Corporation of Wisconsin. Filed July 9, 1927. Serial No. 204,639. 15 Claims. (Cl. 18—38.)

1. A tube vulcanizer, comprising a two part casing formed as inner ring and an outer ring, having a tube cavity formed therebetween, a fluid cylinder secured to the outer ring, a piston in said cylinder with its piston rod secured to the inner ring, guide rods secured to said inner ring and slidably associated with said outer ring whereby said inner ring is adapted to be axially movable relative



to said outer ring, locking pins having grooves therein, and means adapted to engage in said grooves when said casing parts are in closed position.

1,781,394. ACCORDION. CANDIDO IORIO and FRANK IORIO, Jamaica, N. Y. Filed Feb. 20, 1929. Serial No. 341,321. 8 Claims. (Cl. 84—376.)

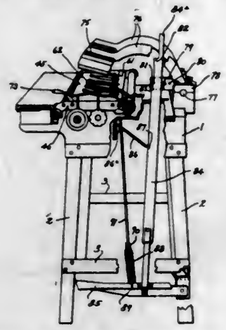


3. In an accordion, a sound chamber housing, a plurality of reed chamber units located therein and in communication with valve openings in one wall thereof, a set of pivotally mounted key levers, a cover on each of the keys to cover a predetermined number of valve openings, a reed chamber unit located at a different part of the housing in communication with openings in another wall disposed at an angle to the first mentioned wall of the housing, a second set of pivotally mounted key levers in operative engagement with the first mentioned key levers, a valve opening cover on each of the keys of the said second set, playing keys, and extensions on each of the keys in engagement with the first mentioned key levers to simultaneously operate a key lever in both sets when one of the keys is depressed.

1,781,395. PRINTING MACHINE. FRITZ JOHNSON, Racine, Wis., assignor, by mesne assignments, to Stephenson Underwear Mills, South Bend, Ind., a Corporation. Original application filed Aug. 10, 1927, Serial No. 212,026. Divided and this application filed Oct. 10, 1928. Serial No. 311,430. 8 Claims. (Cl. 101—336.)

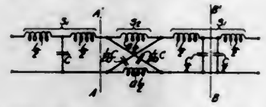
1. A printing machine having a printing bed, an inking ribbon overlying the printing bed, a frame for the inking ribbon, rolls upon which the ribbon is wound said rolls being rotatably mounted on the ribbon frame, tensioning

means associated with one roll, feeding means associated with the other roll and including a ratchet wheel connected with the axis of such roll and rotatable therewith,



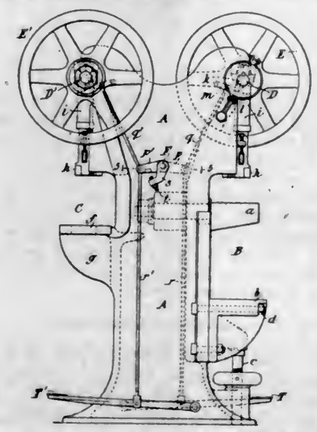
a pawl cooperable with the ratchet wheel, and a shiftable guard mounted on the ribbon frame and connected with the pawl for actuating the same.

1,781,396. ELECTRICAL NETWORK. KENNETH S. JOHNSON, Jersey City, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed Jan. 15, 1925. Serial No. 2,482. 5 Claims. (Cl. 178—44.)



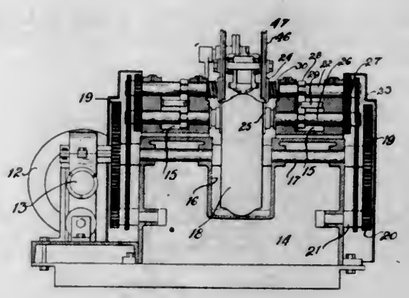
1. A wave retardation circuit comprising a plurality of four-terminal networks in sequence, one of said networks having a phase constant which increases less rapidly than the wave frequency, and the others of said networks consisting of similar ladder-type broad-band wave filter sections adapted to transmit freely wave frequencies below a critical value, the component elements of said filter sections being so proportioned that the resultant phase constant of the retardation circuit is substantially constant for a wide range of frequencies.

1,781,397. POWER PRESS. WILLIAM KLOCKE, Woodhaven, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a Corporation of Delaware. Filed June 2, 1927. Serial No. 195,976. 2 Claims. (Cl. 78—13.)



1. A twin press having a single frame and the press members of two presses carried thereby, and means for preventing the simultaneous starting of both presses.

1,781,398. BICYCLE-TIRE TRIMMER. ARNOLD R. KRAUSE, Eau Claire, Wis., assignor to Gillette Rubber Company, a Corporation of Wisconsin. Filed Aug. 18, 1927. Serial No. 213,763. 10 Claims. (Cl. 164—69.)



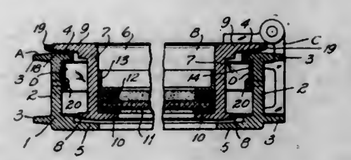
1. A machine of the class described comprising a gap bed having opposed and aligned housings on each side of the gap, a driving shaft in said bed and spanning said gap, a core shaped to receive a tire carcas, and mounted on said shaft in position in said gap, a set of co-acting rotary trimming cutters mounted on the housing on each side of said core, and balanced pressure means equally urging the coacting trimming cutters toward each other and into cutting positions, said latter means being axially aligned with the associated cutters.

1,781,399. TRACTOR TRAILER. CHARLES H. LAND, Detroit, Mich. Filed June 21, 1929. Serial No. 372,699. 10 Claims. (Cl. 280—33.1.)



1. In combination with a tractor-trailer, a rotatable shaft journaled in the frame of the trailer and extending longitudinally thereof; a supporting element for the trailer, adapted to be moved into supporting or nonsupporting position by the rotation of said shaft; and a pin carried by the tractor adapted to cooperate directly with a helical groove in the shaft to effect its rotation through a backward or forward movement of the tractor.

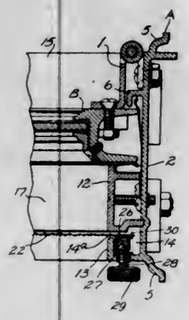
1,781,400. METAL WEATHER STRIP. ALFRED M. LANE, St. Louis, Mo. Filed Nov. 26, 1928. Serial No. 321,829. 5 Claims. (Cl. 189—65.)



1. The combination of a window frame and an outswinging sash therefor provided at its outside edge with a portion adapted to overlap the outside edge of the sash opening when the sash is closed of a metal weatherstrip mounted in said sash opening and extending around the outside corner of said sash opening and terminating in a resilient sealing flange disposed in front of the outside

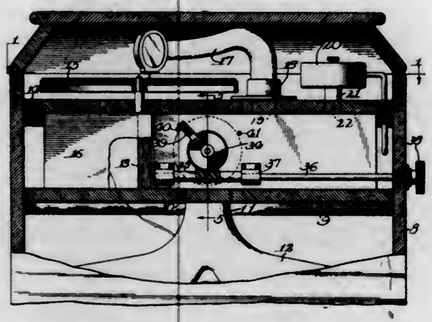
face of said window frame in a position to yieldably engage the overlapping outside portion of said sash in the closed position thereof.

1,781,401. SCREENED WINDOW. ALFRED M. LANE, St. Louis, Mo. Filed Mar. 8, 1929. Serial No. 345,523. 10 Claims. (Cl. 156—39.)



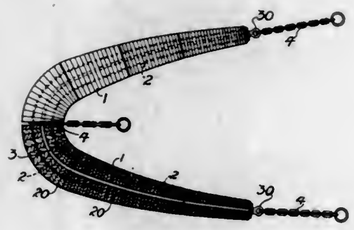
3. In a window frame comprising head and jamb members, said head member being adapted to support a roller screen adapted to be drawn across the opening in said frame, said jamb members being provided with longitudinal slots adapted to receive the side marginal portions of said screen and constitute guides therefor; clamping bars loosely mounted in said slots, and means mounted on the jamb members and co-operating with said clamping bars to shift the same laterally into engagement with said screen to clamp the margins thereof in the guides therefor.

1,781,402. VALVE TONE THROAT. CARL H. LARSSON, Chicago, Ill. Filed Feb. 15, 1929. Serial No. 340,304. 5 Claims. (Cl. 274—2.)



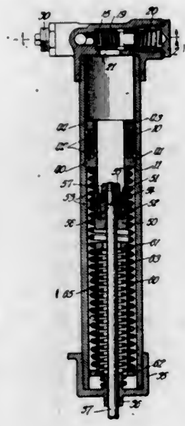
4. In a device of the character set forth, the combination of a block having two passageways leading from separate inlets to a common outlet, said block having a cylindrical hole therethrough which intercepts said passageways, a cylindrical rotatable member mounted in said hole and extending through the block, said member having openings for establishing communication at times from the respective passageways to the outlet, sides secured to said block and covering the ends of said hole, trunnions for said rotatable member, bearings in said sides for said trunnions, a worm gear secured to one of said trunnions, a worm engaging with said gear, a rod on which said worm is mounted, bearings for said rod, a handle for turning the rod, an arm secured to said worm gear and stops adapted to be engaged by said arm to limit the movement of said rotatable member.

1,781,403. SHIP'S FENDER. CHARLES T. LYONS, Medina, Wash., assignor to Durable Mat Company, Seattle, Wash., a Corporation of Washington. Filed July 23, 1929. Serial No. 380,280. 4 Claims. (Cl. 114—219.)



1. A boat fender composed of disks cut from rubber tires, clamping rods passing through a series of disks to form a fender section and a holding member passing through a series of said sections to form a fender.

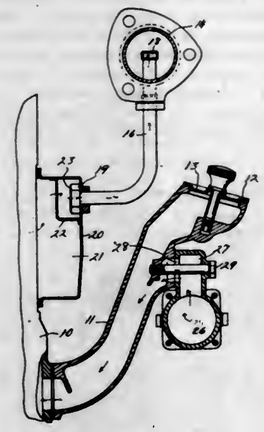
1,781,404. PUMP. ALEXANDER MCNAB, Bridgeport, Conn. Filed Sept. 3, 1929. Serial No. 390,187. 3 Claims. (Cl. 103—37.)



1. A pump comprising, in combination, a major cylinder; a major piston mounted for reciprocation in said cylinder; said major piston having a minor cylinder open at one end to the pumping surface thereof; a minor piston mounted for reciprocation within said minor cylinder; means for reciprocating said minor piston; resilient means urging said major piston to advanced position; and cooperative stop faces on said minor piston and major piston for limiting the advancement of said major piston and for effecting positive retraction thereof with the retraction of said minor piston.

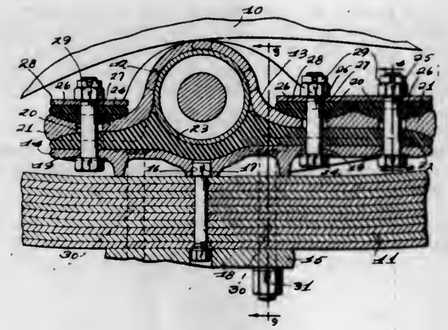
1,781,405. CRANK-CASE VENTILATOR. EARLE S. MACPHERSON, Detroit, Mich., assignor to Hupp Motor Car Corporation, Detroit, Mich., a Corporation of Virginia. Filed Nov. 15, 1926. Serial No. 148,569. 6 Claims. (Cl. 123—119B.)

2. In combination, an exhaust manifold, a carburetor air supply conduit, a crank case provided with an oil filler spout, an ejector pipe extending into said exhaust manifold and connected to said crank case for inducing a



vacuum in the latter and means connecting said air supply conduit to said filler spout for supplying air to said crank case to dissipate said vacuum.

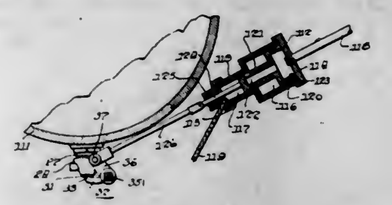
1,781,406. AXLE MOUNTING. EARLE S. MACPHERSON, Detroit, Mich., assignor to Hupp Motor Car Company, Detroit, Mich., a Corporation of Virginia. Filed July 30, 1928. Serial No. 296,283. 11 Claims. (Cl. 267—52.)



1. In combination, a vehicle frame, an axle, a member carried by the frame, a non-metallic member mounted upon the member aforesaid and having a portion intermediate the ends thereof constituting a seat for said axle, and means for securing the axle and non-metallic member to the first mentioned member, said means including a bracket having an intermediate portion secured to said axle and having end portions seated upon the end portions of said non-metallic member.

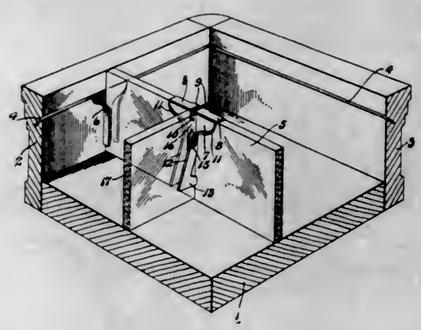
1,781,407. STEAM ENGINE. JOHN L. MOHUN, Omaha, Nebr. Filed Aug. 9, 1924. Serial No. 731,053. 13 Claims. (Cl. 121—134.)

12. In a steam engine, the combination with a main cylinder; of valve means movable in one direction to vent said cylinder and in an opposite direction to close said cylinder against venting; a steam controlled element connected with said valve means, said element having a surface of pre-determined area adapted to be acted upon by steam to urge the valve means in one direction, and having a surface of greater area adapted to be subjected to steam pressure to urge said valve means in the opposite



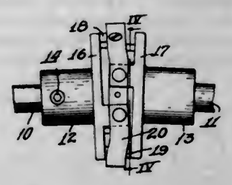
position; and independent means for controlling the admission of steam to said surfaces to regulate the position of said valve means.

1,781,408. COUNTER-PARTITION SUPPORT. EDMUND MORRIS and ANTHONY VANDERVELD, Grand Rapids, Mich., assignors to Grand Rapids Store Equipment Corporation, Grand Rapids, Mich., a Corporation of Michigan. Filed May 31, 1928. Serial No. 281,797. 6 Claims. (Cl. 312—140.)



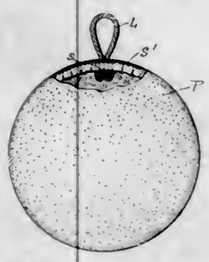
4. In combination, a vertical partition, a partition holder comprising, a vertical section adjacent said partition, hook members at an end of said section hooked over an edge of the partition, said hook members being separated by a slot, and spaced apart guide flanges projecting convergently from said vertical section.

1,781,409. COUPLING. CHARLES L. RAYFIELD, Chicago, Ill., assignor to Rayfield Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 3, 1928. Serial No. 274,695. 6 Claims. (Cl. 64—96.)



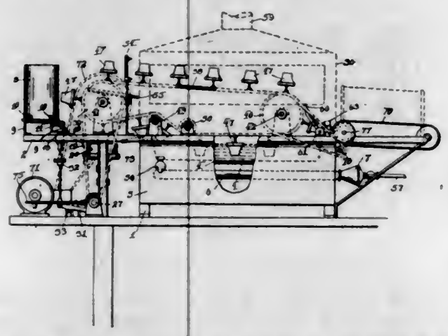
1. In a coupling, a pair of cooperable coupling members, and a plurality of separate links for connecting said coupling members, each link comprising a strip of resilient material having connected thereto a centrifugal weight effective at all times during the rotation of the coupling to counteract the effect of the centrifugal action of the weights on the other links.

1,781,410. POWDER PUFF AND METHOD OF MAKING SAME. LOUIS L. RAYNOR, New Rochelle, N. Y., assignor to The Hygienol Co. Inc., New York, N. Y., a Corporation of New York. Filed May 14, 1929. Serial No. 363,029. 2 Claims. (Cl. 132—78.5.)



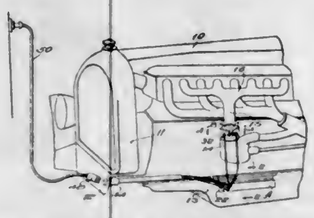
1. A powder puff having a loop connected thereto by means of retaining stitches, said loop having an enlarged inner end comprising additional layers of the loop material which are connected to the body of the loop by stitches, said enlarged inner end being inwardly located with respect to the retaining stitches.

1,781,411. AUTOMATIC PASTRY BAKING MACHINE. GEORGE REIBER, Rochester, N. Y. Filed Aug. 27, 1929. Serial No. 388,844. 15 Claims. (Cl. 53—7.)



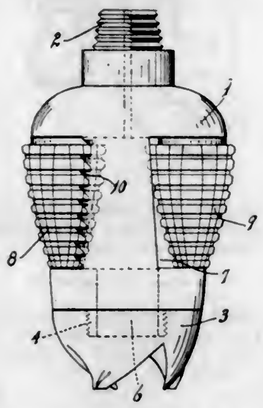
1. An automatic pastry baking machine having a series of baking forms, a batter receptacle, means for suspending in said forms in the batter of said batter receptacle and cover said forms with the batter, means for immersing said baking forms with the batter in a hot oil bath to bake the batter onto said forms and means for stripping the baked pastry from said forms after emerging from the hot oil bath.

1,781,412. HEATING DEVICE FOR INTERNAL-COMBUSTION MOTORS. CHARLES S. SLICHTER, Madison, Wis., assignor to Motorheator Company, Madison, Wis., a Corporation of Wisconsin. Filed July 9, 1928. Serial No. 291,225. 33 Claims. (Cl. 219—38.)



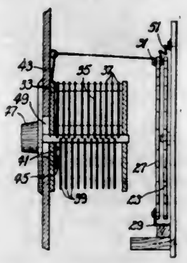
1. In an arrangement of the character described, the combination with an internal combustion motor; of a heating element associated with the fuel intake of said motor for warming the fuel prior to its inlet to the motor, and a second heating element mounted on the crank case of the motor adjacent the oil level therein for warming the oil in said motor prior to starting; and means electrically connecting said heaters for simultaneous operation, said means including a terminal member mounted in an accessible position and connected to both of said heating elements to form a common terminal therefor, and a common plug connected to a lighting circuit and adapted for detachable connection with said terminal member.

1,781,413. DRILLING BIT. GEORGE C. SLOCOMBE, Long Beach, and ALFRED J. CORMIER, Bellflower, Calif. Filed July 30, 1929. Serial No. 382,118. 4 Claims. (Cl. 255—71.)



1. A drilling bit comprising a body, a lead cutter depending from said body, said lead cutter being adapted to cut a core, said body having a transverse opening therein, reaming cutters journaled in the body, said reaming cutters being adapted to engage and break up the core.

1,781,414. RADIO RECEIVING APPARATUS. LLOYD Q. SLOCUMB, Ferguson, Mo. Filed Mar. 22, 1924. Serial No. 700,986. 2 Claims. (Cl. 250—40.)

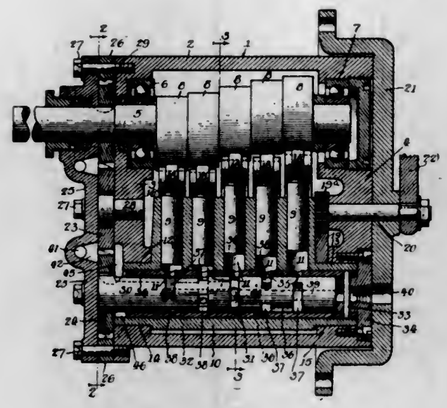


1. In a radio system, a dual tuning control comprising a rotary variable condenser, a stationary inductance, a hinged inductance in variable inductive relation with said stationary inductance, a vertical panel on which said condenser is mounted, vertical guides on said panel which permit the condenser to be integrally moved therein, a cord secured to the frame of said condenser and to the hinged inductance, a spring affixed between and to said inductances said spring pulling said inductances together as the condenser is moved upwardly and tending to counterbalance the weight of the condenser as said condenser is moved downwardly, the varying of the capacity of said condenser being controlled independently of its vertical movement.

1,781,415. PROCESS FOR THE TREATMENT OF WOOL. LEIGHTON B. SMITH, Newton, and CHARLES E. RUBY, Cambridge, Mass. Filed June 3, 1924. Serial No. 717,579. 15 Claims. (Cl. 8—2.)

13. An alkaline solution for the treatment of wool comprising an alkali metal hypochlorite, and an electrolyte, said electrolyte being a salt of a weak acid and a strong base.

1,781,416. PUMP. GUSTAF DAVID SUNDSTRAND, Rockford, Ill., assignor to Sundstrand Machine Tool Co., Rockford, Ill., a Corporation of Illinois. Filed Mar. 22, 1928. Serial No. 263,656. 12 Claims. (Cl. 103—5.)



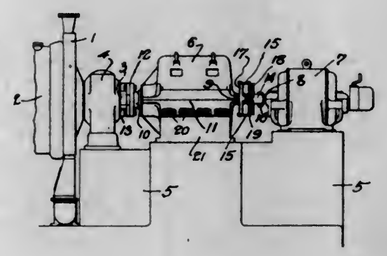
1. A pump comprising, in combination, a housing, a drive shaft rotatably mounted in said housing, a plurality of angularly displaced eccentrics on said shaft, a plurality of pivotally fulcrumed levers engaging said eccentrics, a cylinder block pivotally mounted on an axis parallel to said shaft, said cylinder block having inlet and outlet means, and a plurality of pistons mounted in said block arranged to be actuated by said arms to discharge liquid through said outlet means.

1,781,417. VALVE-GRINDING DEVICE. RUDOLPH TRAHAN, Rumstick Point, R. I. Filed Apr. 11, 1930. Serial No. 443,328. 4 Claims. (Cl. 51—29.)



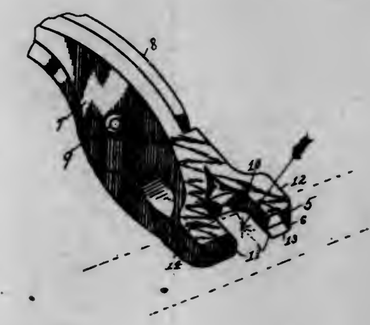
1. A valve stem guide and valve lifter for use in grinding valves comprising a body portion consisting of a plurality of separable sections through which the stem of the valve to be ground is guided, said body being insertable into the bore of the engine block, and a spring for engaging a portion of the body to hold the sections assembled and to lift the valve from its seat.

1,781,418. YIELDABLE CARRIER FOR MOTION-TRANSMITTING DEVICES. WILHELM ROBERT UGGLA, Morby, Stocksund, Sweden, assignor to Luth & Rösene Elektriska Aktiebolag, Stockholm, Sweden, a Corporation of Sweden. Filed Sept. 4, 1928, Serial No. 303,900, and in Sweden May 21, 1926. Renewed Mar. 27, 1930. 13 Claims. (Cl. 74—29.)



1. A prime mover, apparatus to be driven thereby, a power transmitting gear transmission for transmitting drive from said prime mover to said apparatus, means for resiliently supporting the entire transmission with respect to the driven apparatus, and a rigid coupling between the transmission and the driven apparatus.

1,781,419. PLIERS OR TONGS. RALLAND J. WALLACE, Oklahoma City, Okla. Filed Apr. 24, 1929. Serial No. 357,863. 1 Claim. (Cl. 113—99.)

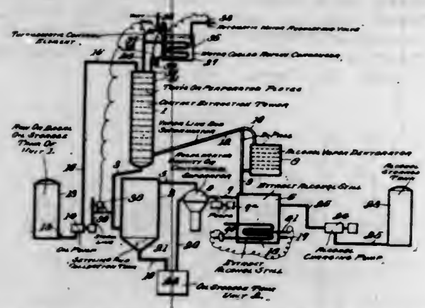


A tool comprising a pair of cooperating jaws, a lever integral with each jaw and a pivot for the levers, said jaws being bifurcated by substantially rectangular notches opening at the front end of the jaws and tapering from the gripping face of each jaw outwardly, one of said jaws being provided with a uniform groove across its entire width and parallel to the axis of the pivot and to the front end of the tool.

1,781,420. APPARATUS FOR FRACTIONALLY EXTRACTING PETROLEUM HYDROCARBONS WITH ALCOHOL. THEODORE A. WERKENTHIN, Lima, Ohio, assignor to The Solar Refining Company, Lima, Ohio, a Corporation of Ohio. Filed Dec. 30, 1927. Serial No. 243,645. 9 Claims. (Cl. 196—46.)

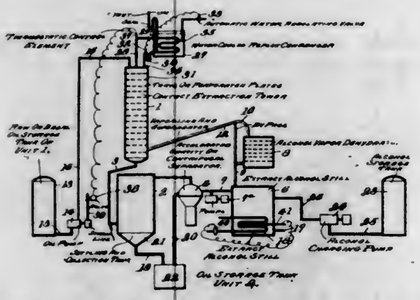
1. In apparatus for extracting hydrocarbons with alcohol, the combination of an oil storage tank, a contact-extraction tower, means for conveying oil from the former to the latter, means for introducing alcohol into the ex-

traction tower, means for removing extracted oil therefrom, an alcohol extract still in operative connection with



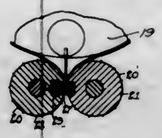
the extraction tower, an alcohol dehydrator and means for cutting the dehydrator in and out of operative connection with said alcohol extract still and tower.

1,781,421. PROCESS OF FRACTIONALLY EXTRACTING PETROLEUM HYDROCARBONS WITH ALCOHOL. THEODORE A. WERKENTHIN, Lima, Ohio, assignor to The Solar Refining Company, Lima, Ohio, a Corporation of Ohio. Filed Dec. 30, 1927. Serial No. 243,646. 6 Claims. (Cl. 196—13.)



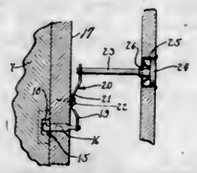
3. The process of treating heavy petroleum oils comprising passing the same into an extraction vessel, automatically controlling the quantity of oil admitted to said extraction-vessel, feeding substantially anhydrous alcohol in vaporous form to extract said oil, passing a portion of the vaporized alcohol into a condenser employing a cooling medium, automatically controlling the temperature of the cooling medium so that the alcohol vapors will be condensed only to a predetermined temperature and returning the condensed alcohol to the extraction-vessel.

1,781,422. PAPER-FOLDING DEVICE. HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Aug. 8, 1922, Serial No. 580,439. Renewed May 17, 1928. 9 Claims. (Cl. 101—420.)



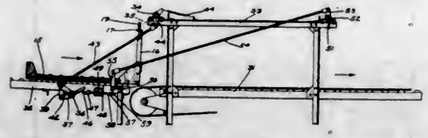
1. The combination of a pair of folding rolls for folding printed products located far enough apart to prevent contact by the rolls with the printed product, said rolls having projections spaced apart around their circumference for engaging the printed product at points on its margin and constantly and positively forwarding it between the rolls as they rotate without placing any part of the printed product in contact with the rolls and under pressure of said rolls.

1,781,423. TABLE CONSTRUCTION. JOSEPH E. WOOD, Chicago, Ill., assignor of one-half to John P. Mellis, Chicago, Ill. Filed Sept. 17, 1928. Serial No. 306,457. 3 Claims. (Cl. 45—75.)



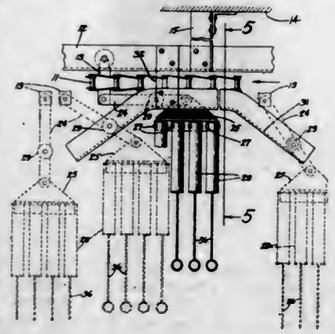
1. A table of the type described comprising a top having an opening therein, a receptacle secured to said top adjacent said opening, a cover for said receptacle disposed in said opening and pivotally secured to said receptacle, a latch for holding said cover in closed position, a rocking lever carried by said receptacle and operatively connected to said latch, and means for actuating said rocking lever for moving said latch out of engagement with said cover.

1,781,424. CONVEYING AND SPACING APPARATUS. MARTIN J. ANDERSON, Ellwood City, Pa., assignor to Mathews Conveyer Company, Ellwood City, Pa., a Corporation of Pennsylvania. Filed Apr. 9, 1927, Serial No. 182,509. Renewed Sept. 11, 1930. 12 Claims. (Cl. 186—20.)



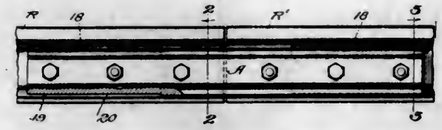
1. The combination with a conveying apparatus including a conveyer and a routing tray adapted to be sent over said conveyer to actuate certain mechanisms adapted to divert following articles from the conveyer onto a selected branch conveyer, of means adapted automatically to space the routing tray a predetermined distance from the first following article.

1,781,425. CONVEYING APPARATUS FOR DIPPING. MARTIN J. ANDERSON, Ellwood City, Pa., assignor to Mathews Conveyer Company, Ellwood City, Pa., a Corporation of Pennsylvania. Filed Apr. 9, 1927. Serial No. 182,510. 9 Claims. (Cl. 214—17.)



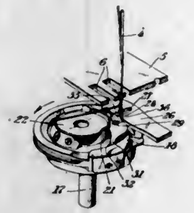
1. An apparatus of the class described, comprising a track, a carriage adapted to travel thereon, an arm pivotally connected with the carriage and normally depending therefrom, an article-holder connected with the lower end of said arm, opposed connected cam surfaces arranged beneath said track, and a roller on said arm intermediate its ends adapted to engage said cams to raise and lower said article-holder.

1,781,426. RAIL-JOINT BAR. VICTOR C. ARMSTRONG, Hackensack, N. J., assignor to The Rail Joint Company, New York, N. Y., a Corporation of New York. Filed Mar. 8, 1930. Serial No. 434,328. 2 Claims. (Cl. 238—243.)



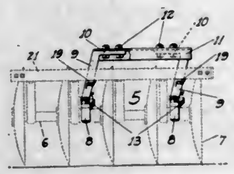
1. A rail joint including the rails, the joint bolts and a joint bar having head and foot portions formed for loading engagement throughout the medial portion of the joint only, respectively with the head fillets of the rails and with the base flanges of the rails, and means responsive to the bolting pressure for causing an automatic rotation of the bar to adapt the same to loading forces and to wear.

1,781,427. STITCH-FORMING MECHANISM FOR SEWING MACHINES. WILLIAM L. BARRON, Laurence Harbor, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Oct. 26, 1928. Serial No. 315,114. 3 claims. (Cl. 112—228.)



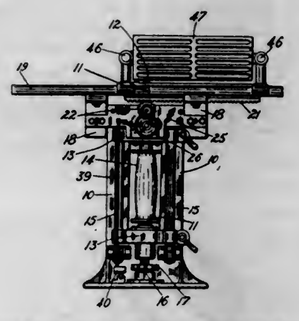
1. In a sewing machine, a reciprocating needle, a rotary hook having a loop-taking beak, a bobbin-case, a bobbin-case rotation-restraining element having a notch embracing the needle-path, said notch having an open mouth at one side of the needle-path and a closed-bottomed throat at the opposite side of the needle-path, at which opposite side the beak of the hook is arranged to pass in taking a needle-loop, and means on the bobbin-case entering the mouth of said notch to restrain the bobbin-case from rotatin.

1,781,428. DISK-MOUNTING ATTACHMENT FOR HARROWS. GEORGE V. BECKMAN, Lodi, Calif. Filed Dec. 4, 1928. Serial No. 323,602. 1 Claim. (Cl. 55—83.)



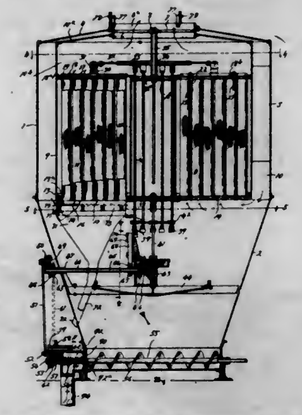
In a trailing disk harrow which includes transversely spaced front disk gangs, and frame elements for said gangs; and transversely separated rear disk gangs each comprising a transverse axle, a plurality of spaced disks fixed on said axle; and bearing boxes for the axle disposed between spaced pairs of disks; a frame rigidly connecting the boxes and comprising rigid arms upstanding from the boxes and having horizontal extensions at their upper ends, and a rigid member extending transversely over the tops of the disks and engaging and rigidly connected to said arm extensions, there being draft connections from the arms of each gang to corresponding but opposed connections with the frame elements of the corresponding front gang.

1,781,429. WOODWORKING MACHINERY. ANTONIO BENEDETTO, Annandale, near Sydney, New South Wales, Australia. Filed Oct. 30, 1929, Serial No. 403,540, and in Australia Nov. 12, 1928. 4 Claims. (Cl. 144—87.)



1. A dovetail cutting machine comprising a frame, a spindle mounted to rotate in bearings capable of vertical movement upon slide bars disposed on the said frame, a cutter carried by the spindle, a saddle or table adapted to slide longitudinally upon rails carried by the said frame, said saddle being provided with a rack engaged by a pinion which meshes with a second pinion mounted upon a shaft, said shaft being journaled in a face plate on the machine frame and having disposed thereon ratchet mechanism adapted to be operated by a pedal to advance the saddle upon its rails, and a box like chuck disposed above the saddle and capable of being moved transversely thereto.

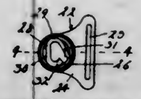
1,781,430. AIR CLEANER. WILLIAM T. BLANEY, Peterborough, Ontario, Canada. Filed June 19, 1926. Serial No. 117,087. 17 Claims. (Cl. 183—54.)



1. An air cleaner comprising a plurality of air filtering units, a rotative support for said units, means for delivering dust-laden air to said units, a plurality of ham-

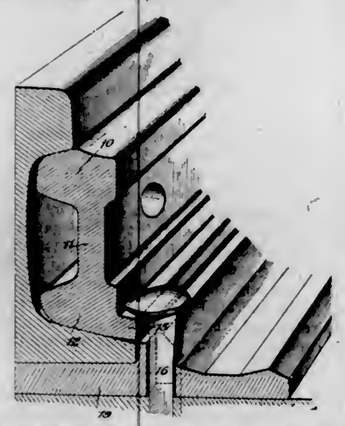
mers pivoted upon said support, and adapted to respectively act upon said units, means for effecting an intermittent step-by-step rotation of said support, and a common actuating means for said hammers adapted to successively act upon said hammers through their rotation with said support.

1,781,431. GARTER GRIP. SAMSON BORGNIS, Olney, Pa. Filed May. 21, 1930. Serial No. 454,217. 3 Claims. (24—208.)



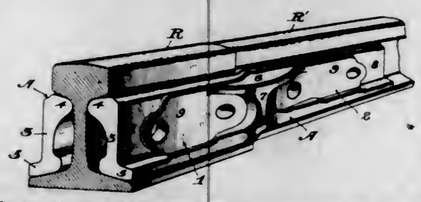
2. A garter grip comprising a stud member and a socket member, the latter including a plate, a housing thereon, said housing and plate having aligned apertures therein and a spring clamp mounted within said housing and including a bow, diverging legs projecting from said how and an arcuate portion formed with the end of one of said legs.

1,781,432. STRESS-BALANCED SPLICE BAR. BANCROFT G. BRAINE, New York, N. Y., assignor to The Rail Joint Company, New York, N. Y., a Corporation of New York. Filed Apr. 11, 1930. Serial No. 443,538. 11 Claims. (Cl. 238—188.)



1. A rail splice bar comprising a substantially geometrically symmetrical major portion inclusive of a foot flange, and a rib forming an outward extension of said foot flange and of materially less depth than the portion of the latter included within the substantially geometrically symmetrical portion of the bar.

1,781,433. RAIL-JOINT BAR. DANIEL L. BRAINE, Brooklyn, N. Y., assignor to The Rail Joint Company, New York, N. Y., a Corporation of New York. Filed Jan. 7, 1930. Serial No. 419,076. 2 Claims. (Cl. 238—167.)



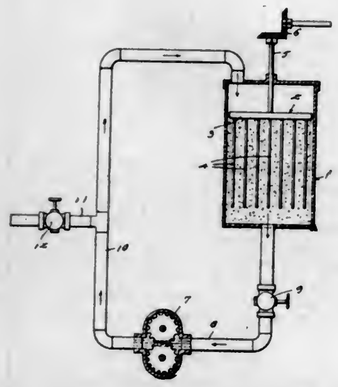
1. A rail joint bar of progressively decreasing thickness from the medial portion thereof towards its ends, said bar being inclusive of a head and a foot flange, the former being shaped for loading engagement with the head fillets of the rails and for clearance from the under aces of the heads of the rails, and the latter being formed to terminate inwardly of the edges of the rail flanges.

1,781,434. INLET MANIFOLD. HENRY LOWE BROWNBACK, Norristown, Pa. Filed July 17, 1928. Serial No. 293,454. 12 Claims. (Cl. 123—52.)



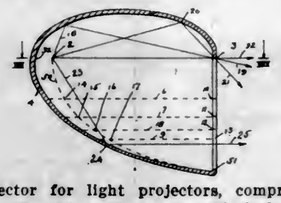
1. In a multiple cylinder internal combustion engine, an intake manifold having a plurality of fuel ducts extending from the carbureter to the inlet of each cylinder whereby each cylinder is supplied with a like volume of fuel vapors at any engine speed.

1,781,435. PROCESS FOR THE PRODUCTION OF PAINTS. JOSEPH B. CARPER, Louisville, Ky. Filed July 6, 1928. Serial No. 290,752. 1 Claim. (Cl. 134—1.)



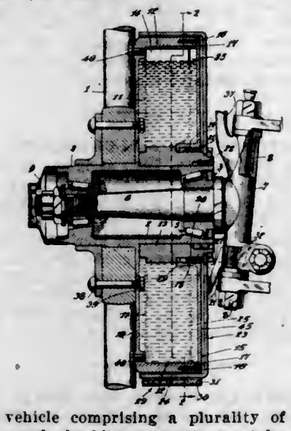
In an apparatus for the preparation of a liquid coating composition containing solid particles, a receptacle, an agitator within the receptacle, having means extending to the exterior of the receptacle for transmitting motion thereto from a source of power exteriorly of the receptacle, a rotary gear pump, a pipe line connecting the lower portion of said receptacle with the intake side of said pump, a pipe line connecting the outlet side of the pump with the upper part of the receptacle, and draw-off means leading from said last mentioned pipe line, said gear pump being designed to grind up said solid particles in addition to maintaining a circulation of the liquid.

1,781,436. COMPOUND REFLECTOR. MARTHA W. CAUGHLAN, Oakland, Calif., assignor to American Woodlite Corporation, San Francisco, Calif., a Corporation of California. Filed Jan. 19, 1925. Serial No. 3,335. 13 Claims. (Cl. 240—41.)



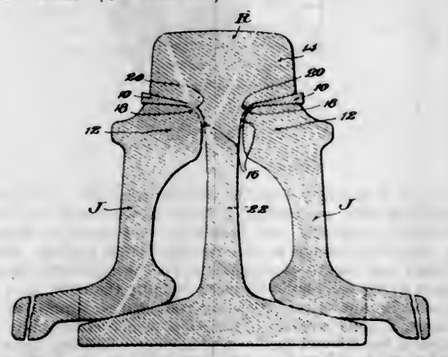
8. A reflector for light projectors, comprising walls which in horizontal sections are elliptical and whose proximate focal ponts lie along an arc of a parabola.

1,781,437. METHOD OF BRAKING AND APPARATUS THEREFOR. CHARLES F. CHISHOLM, Staten Island, N. Y., assignor of one-half to George Ramsey, Brooklyn, N. Y. Filed June 22, 1928. Serial No. 287,374. 18 Claims. (Cl. 188—10.)



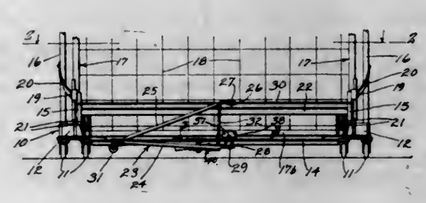
18. A vehicle comprising a plurality of road wheels, means to apply braking moments to at least two of the wheels, and means to automatically reduce the value of the braking moment on at least one wheel as the speed of rotation of such wheel diminishes.

1,781,438. TEMPORARY RAIL-JOINT SHIM. GEORGE M. CLODFELTER, Yonkers, N. Y., assignor to The Rail Joint Company, New York, N. Y., a Corporation of New York. Filed Sept. 17, 1929. Serial No. 393,179. 2 Claims. (Cl. 238—244.)



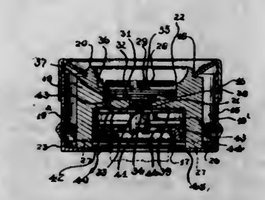
1. Means for temporarily supporting the head of a head-free rail during reconditioning of the rail head comprising a shim shaped to fit and to substantially fill the space between the underside of the rail head and the top of a related joint bar, and a tongue formation on said shim curved to fit between the head fillet of the rail and the upper inner corner of the joint bar to retain said shim in an operative position, the lower edge of said tongue terminating above the line of the joint bolts whereby the shim is insertible into and removable from the space between the rail head and the joint bar without removing the joint bolts.

1,781,439. PORTABLE FOLDING BED. EDGAR COCKS, Los Angeles, Calif., assignor to Los Angeles Wall Bed Company, Los Angeles, Calif., a Corporation of California. Filed May 22, 1926. Serial No. 110,841. 3 Claims. (Cl. 5—168.)



1. A folding bed, comprising a base, a bed frame pivotally mounted on the base to swing vertically thereon and overhang the base when in horizontal position, an auxiliary leg pivotally mounted on the base and arranged to swing horizontally thereon from folded position longitudinally of the base to extended position transversely of the base and beneath the overhanging portion of the bed frame, means to yieldingly hold the leg in folded position and catch means to hold it in extended position against the action of the yielding means, said catch means comprising a latch plate on the base, a latch bar pivotally mounted adjacent one end on the leg, the opposite end of said bar arranged to engage the plate and the bar being serrated along one edge to engage the plate and relessably hold the leg against the action of the yielding means.

1,781,440. ELECTRICAL LIGHTING DEVICE FOR CIGARS AND THE LIKE. WILLIAM B. CONNOLLY, Rochester, N. Y., assignor to F. A. Smith Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Feb. 17, 1928. Serial No. 255,134. 10 Claims. (Cl. 219—32.)



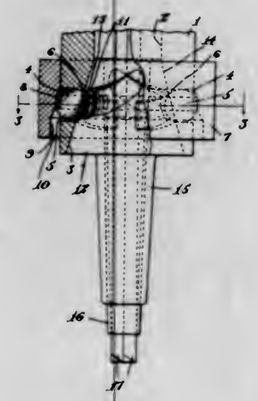
5. In an electrical lighting device for cigars and the like, the combination with two members, one of which is in the form of a projection and the other of which has a pocket in which the projecting member is adapted to be received, of a spring clip carried by the pocketed member and formed from a single piece of stock bent between its ends to provide two opposed curved portions for engagement with opposite sides of the projection, and two pairs of arms extending outwardly from said curved portions, the members of one of said pair being connected and the members of the other pair being free of each other.

1,781,441. ELECTRIC SWITCH. JOEL R. COOK, Cleveland, Ohio, assignor to Domestic Electric Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 18, 1922. Serial No. 588,755. 33 Claims. (Cl. 200—116.)



1. A switch comprising separable contacts, means for closing the contacts, latching mechanism for holding the contacts closed, a bimetallic thermostatic bar for releasing said latch, a manually operable member for actuating the closing means, and a separate switch actuated by said manually operable member, the manually operable member being adapted to open and close the last named switch independently of any actuation of said separable contacts.

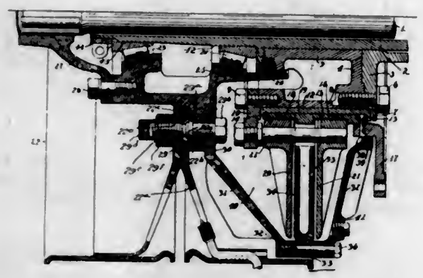
1,781,442. CHUCK. ARTHUR L. CURRIER, New Ipswich, N. H. Filed Oct. 16, 1926. Serial No. 141,952. 2 Claims. (Cl. 279—75.)



1. A chuck, comprising a rotatable spindle having a tapered opening therein, a tapered tool holding spool having spiral grooves of varying depth therein and adapted to enter said spindle, spool holding, locking and driving members in said spindle, the upper and lower walls of said grooves engaging said members when said spool is inserted in the tapered opening of said spindle and forcibly seating said spool in said spindle.

1,781,443. BRAKING MECHANISM FOR MOTOR VEHICLES. HENRY E. CURTIS, San Jose, Calif. Filed Apr. 8, 1927. Serial No. 182,119½. 2 Claims. (Cl. 188—72.)

1. The combination with a driving shaft of a motor vehicle, a wheel mounted thereon, and a housing therefor, of a drum fixedly and concentrically mounted on the housing, a sleeve mounted on the drum and provided with oppositely directed threads and means for rotating the sleeve a distance on the drum, a pair of opposed and spaced discs engaging the threaded portions of the sleeve and actuated thereby, means for preventing rotation of the discs, a double faced disc supported by the wheel between said

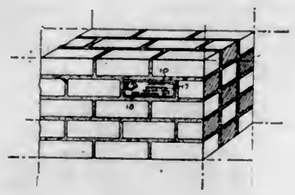


opposed discs and engageable therewith, a housing portion mounted on the wheel to cooperate with the axle housing to form a closed chamber encompassing the discs, and means inserted between the two housing portions for preventing leakage of lubricant therefrom.

1,781,444. MANUFACTURE OF LUBRICANTS. FELTON S. DENGLER, Port Neches, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 15, 1926. Serial No. 141,882. 3 Claims. (Cl. 196—142.)

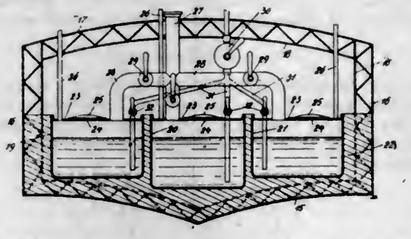
1. The process of manufacturing lubricants which comprises reducing a paraffin base crude petroleum by distillation without substantial decomposition until the residuum has a flash test within the range of 375° to 475° F., then intimately contacting the residual oil with a current of air at temperatures between 400° to 515° F.

1,781,445. METALLIC INSERT FOR BRICK OR TILE STRUCTURES. GEORGE W. DENISON, Cleveland, Ohio, assignor to Common Brick Manufacturers' Association of America, Cleveland, Ohio, a Corporation of Illinois. Filed Jan. 31, 1929. Serial No. 336,476. 2 Claims. (Cl. 40—125.)



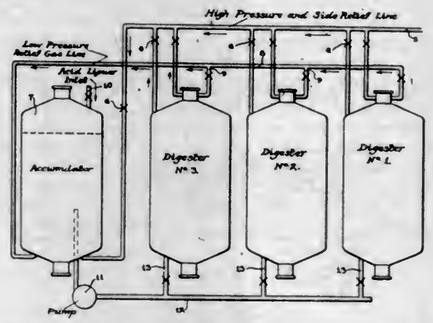
1. In a masonry building wall construction, a metallic building unit, comprising a front member and two end members integrally cast therewith, said members having a continuous flange at the top and botom thereof; their height and length corresponding to the standard dimensions of the wall building units forming the outer part of the wall, and so placed in the wall and so formed as to have an outer exposed inscription face corresponding in area to the exposed face area of the outer building units in the wall, whereby the wall construction may carry a built in label portraying the character of the inaccessible unexposed portions of the wall structure.

1,781,446. ACCOMMODATION OF LIQUIDS IN FLYING MACHINES. CLAUDIUS DORNIER, Friedrichshafen-on-the-Bodensee, Germany, assignor to the Firm: Dornier-Metallbauten G. m. b. H., Friedrichshafen-on-the-Bodensee, Germany. Filed June 16, 1928, Serial No. 285,976, and in Germany June 21, 1927. 2 Claims. (Cl. 244—2.)



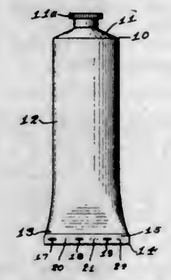
2. Flying machine comprising a flotable body, elastic material covering the bottom and side walls and filling about the lower half of the inner space of said body, a fuel tank seated in and having its bottom and side walls surrounded by said material and means for feeding fuel into and withdrawing fuel from said tank.

1,781,447. DIGESTION OF FIBROUS MATERIAL. THOMAS LEONIDAS DUNBAR, Watertown, N. Y. Filed Aug. 1, 1929. Serial No. 382,802. 9 Claims. (Cl. 92—7.)



1. In the digestion of fibrous material, flowing side relief liquor from a digester undergoing cooking, directly into a digester undergoing filling, and utilizing said side relief liquor for packing chips evenly in a digester.

1,781,448. CLIP FOR COLLAPSIBLE TUBES. GEORGE WALTER DUNNICAN, Bloomfield, N. J., assignor to Weimann Bros. Manufacturing Company, Derby, Conn., a Corporation of Connecticut. Filed Aug. 24, 1929. Serial No. 388,222. 5 Claims. (Cl. 221—60.)

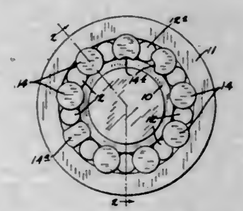


1. In a clip for clamping about the sides of the flat end of a collapsible tube, a strip of metal bent into U-shape forming a pair of jaws to embrace said flat end, said jaws having a plurality of alternating, elongated, staggered indentations extending longitudinally of the clip for engaging the metal of said tube and preventing lateral and longitudinal movement of said clip.

1,781,449. METHOD FOR MANUFACTURING HIGH-GRADE ALPHA CELLULOSE. LAURI I. L. DURCHMAN, Petersburg, Va. Filed May 8, 1929. Serial No. 361,545. 5 Claims. (Cl. 92—11.)

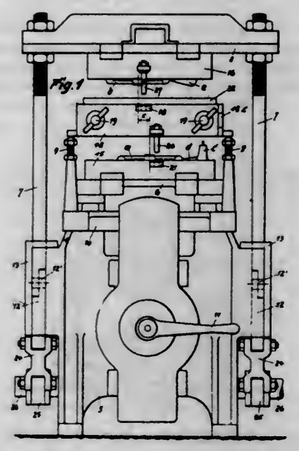
1. The process of treating chemical wood pulp to convert incrusting substances into water-soluble compounds comprising treating the pulp for a period of four to six hours at 20 to 60 pounds pressure with a solution containing 2% to 5% NaOH and 1% to 3% Na_2SO_3.

1,781,450. ROLLER BEARING. CHARLES M. EBERLING, Cleveland, Ohio. Filed Mar. 21, 1928. Serial No. 263,283. 3 Claims. (Cl. 308—206.)



1. In a roller bearing, the combination with two coaxial members having spaced cylindrical surfaces on their interior and exterior, respectively, of a plurality of plain cylindrical rollers interposed between said surfaces and a plurality of headed rollers between adjacent rollers, said headed rollers being formed integral at each end with integral heads overlapping the adjacent portions of said members and rollers and at least two of said spacers having some part of their heads now circular.

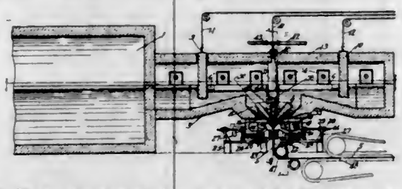
1,781,451. MEANS FOR MAKING DOUBLE-SIDED MOLDS. GUSTAV ECKSTEIN, Barmen, Germany. Filed Apr. 25, 1929, Serial No. 357,996, and in Germany Apr. 27, 1928. 3 Claims. (Cl. 22—25.)



1. A molding machine comprising two pattern plates, each having a pattern staggered with respect to the pattern in the other plate, a flask frame adapted to be inserted between said plates and to support a flask, means

for moving said pattern plates and said flask frame so as to impress said pattern in opposite sides of the sand in said flask, and means for aligning said plates and said flask frame with respect to each other, these means being staggered in conformity with the position of said patterns in their respective plates.

1,781,452. METHOD AND APPARATUS FOR DRAWING SHEET GLASS. ENOCH T. FERNGREN, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 20, 1922. Serial No. 545,207. 20 Claims. (Cl. 49—17.)

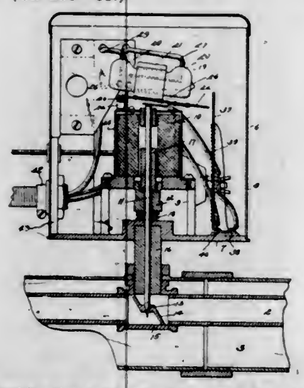


12. In an apparatus for drawing sheet glass, a source of molten glass, a receptacle for a pool of molten glass and in open communication with the source, a pair of movable bottom members for the receptacle providing a slot of variable width therebetween, a pair of refractory partition members within the pool of molten glass, the members projecting into the slot at their lower ends so as to define three separate parallel slots in the bottom of the receptacle, one between the partitions and one between each partition and the adjacent bottom member, a cooler within the molten glass between the partition members, means for applying heat to the glass passing through the two outer slots, and means for drawing away a sheet of glass from below the slots.

13. In a sheet glass forming apparatus, a cooler comprising a hollow body portion, and a series of fluid conduits or pipes within the hollow body, the pipes terminating at different points within the cooler so that the cooling fluid may be applied selectively throughout the length of the cooler.

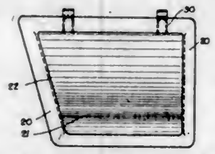
14. In an apparatus for drawing sheet glass from a receptacle containing molten glass, a pair of heating chambers arranged at either side of the sheet near its source, each chamber comprising a transverse series of independently adjustable vanes or plates for shutting off to any desired degree the opening between the heating chamber and the sheet.

1,781,453. AUTOMATIC CONTROLLING MECHANISM. AUGUSTUS J. FRAME, Columbus, Ohio, assignor to Franklin Oil Heating, Inc., Columbus, Ohio, a Corporation of Ohio. Filed Mar. 14, 1927. Serial No. 175,293. 25 Claims. (Cl. 236—68.)



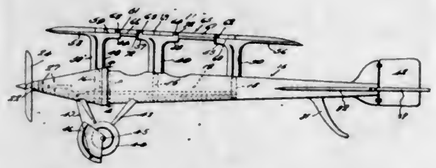
1. The combination with an oil burner, oil and air supply pipe lines entering said burner, a fan in said air line, a motor for said fan, a valve in said oil supply line, means for normally maintaining said valve in a closed position, of a controller embodying a solenoid, a thermostatic switch, means operable upon the closing of said switch to energize said solenoid and open said valve, a mercury switch operable upon the opening of said valve to energize said fan motor, and means for retaining said mercury switch for an appreciable time interval in a position of circuit closure following the de-energizing of said solenoid.

1,781,454. RAILWAY-CAR HOPPER DOOR. GARTH G. GILPIN, Riverside, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 5, 1929. Serial No. 397,590. 8 Claims. (Cl. 105—280.)



1. A hingeable door forming part of the load retaining means of a railway dump car, said door comprising marginal portions in substantially a single plane, a depressed portion formed by a straight line moving parallel to itself, said depressed portion being of varying depth from the plane of the marginal portions, and straight walls connecting the ends of said depressed portion to said marginal portions.

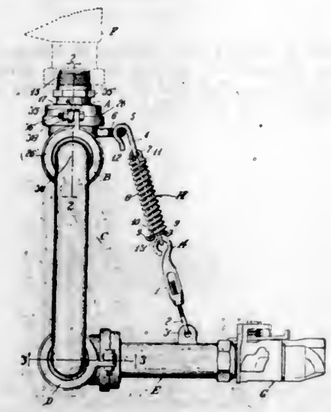
1,781,455. AEROPLANE. IGNATZ GLANSCHNIG, Gary, Ind., assignor of twenty-five per cent to John D. Meyers, Hobart, Ind. Filed Dec. 5, 1929. Serial No. 411,839. 6 Claims. (Cl. 244—14.)



1. An aeroplane comprising a substructure including a fuselage, a plurality of aligned vertically disposed longitudinally spaced rings, a shell supported on the outer periphery of the rings to form the body of the fuselage, longitudinal brace bars extending between the rings and secured to the inner peripheries of said rings, said brace bars projecting forwardly of the forward ring and converging at the nose of the fuselage to form a support for the engine, and a support for a roller bearing for the drive shaft, a superstructure including a plurality of upright supports secured at their lower ends to the rings and projecting above the fuselage along the center line thereof, a longitudinal bar support secured to the upper ends of the upright supports, and pairs of transversely curved wing supporting ribs secured at their inner ends to the aforementioned superstructure.

1,781,456. FLEXIBLE PIPE STRUCTURE. EGBERT H. GOLD, Evanston, and EDWARD A. RUSSELL, Chicago, Ill.; said Russell assignor to Vapor Car Heating Company, Inc., Chicago, Ill., a Corporation of New York; Margaret Jayne Gold and Biscayne Trust Company executors of said Egbert H. Gold, deceased. Filed Sept. 2, 1927. Serial No. 217,050. 5 Claims. (Cl. 285—9.)

1. In a flexible pipe structure, a pair of conduit members, the inner end of one being telescoped within the other whereby the members are relatively rotatable about the axis of the telescoped parts, means for sealing the joint between the members, and means for holding the members against separation without interfering with their relative rotation comprising an annular shoulder on one of the members, a pair of oppositely projecting arcuate



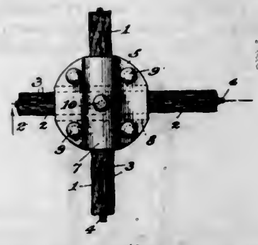
lugs on the other member, and a collar having a flange adapted to engage behind the annular shoulder, and a pair of inwardly projecting annular lugs adapted to engage behind the first-mentioned lugs by a partial rotation of the collar.

1,781,457. FLEXIBLE PIPE STRUCTURE. EGBERT H. GOLD, Evanston, and EDWARD A. RUSSELL, Chicago, Ill.; said Russell assignor to Vapor Car Heating Company, Inc., Chicago, Ill., a Corporation of New York; Margaret Jayne Gold and Biscayne Trust Company executors of said Egbert H. Gold, deceased. Filed Oct. 29, 1927. Serial No. 229,755. 9 Claims. (Cl. 285—9.)



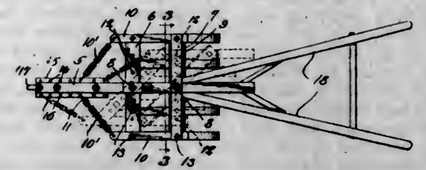
1. In a flexible conduit structure, a pair of conduit sections, one of which is formed with an elbow portion adjacent one end of the section, there being an annular bearing in this end of the section in which the end portion of the other section is rotatably engaged, there being an extension projecting inwardly from one side portion of the rotatable section adjacent one inner wall of the elbow, and a bearing formed in the wall of the elbow opposite the open end of the section for the end portion of this extension.

1,781,458. MEANS FOR SECURING TOGETHER TWO INTERSECTING STRANDS. THOMAS GORE, Brooklyn, N. Y. Filed Mar. 8, 1930. Serial No. 434,302. 1 Claim. (Cl. 24—123.)



The combination with two intersecting strands, of means to secure them together including: two members arranged in face to face contact, each member having a recess for the reception of a strand, the recesses of the two members extending at an angle to each other so that each strand is engaged by the wall of the recess of one member and by the face of the other member, means to secure the two members together independently of the strands, and means to secure the members and strands together at the point of intersection of the two strands.

1,781,459. HARROW. HENRY HEITMUELLER, Cullman, Ala. Filed Jan. 6, 1928. Serial No. 244,920. 1 Claim. (Cl. 55—29.)



A harrow including a beam, lateral harrow sections, each section embodying spaced front and rear bars having spaced openings formed therein and having their inner ends pivotally connected with the beam, end bars connecting the front and rear bars, the forward ends of the end bars extending appreciable distances beyond the front bars, a plate secured to the beam and having openings formed therein, chains connecting the forwardly extending ends of the end bars and plate to secure the harrow sections in various positions of adjustment, spring harrow teeth and bolts extending through the openings of the front and rear bars for adjustably securing the harrow teeth to the front and rear bars.

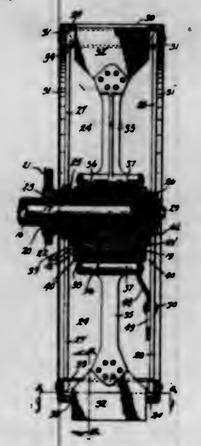
1,781,460. DUSTING MOP. HARRY HERTZBERG, Brooklyn, N. Y. Filed Feb. 6, 1929. Serial No. 337,867. 6 Claims. (Cl. 15—229.)



1. In a mop, a pair of arms joined at one end and extending at first away from and then towards each other forming a normally closed loop, the opposite free end portions of said arms overlapping longitudinally of and pressing resiliently against each other, providing means for

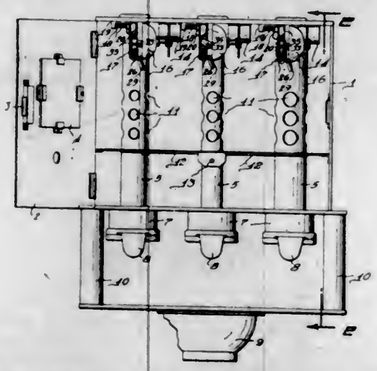
placing mop fabric between the adjacent sides of said arms by their temporary lateral separation and for clamping said fabric therebetween.

1,781,461. ADJUSTABLE DISAPPEARING-LUG TRACTION WHEEL. VICTOR C. HUENEMANN, Garner, Iowa. Filed May 20, 1929. Serial No. 364,465. 2 Claims. (Cl. 301—48.)



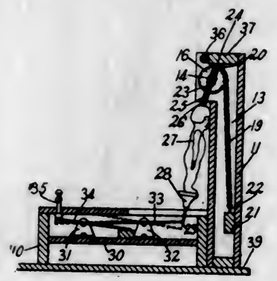
1. A device of the character described comprising an axle, a wheel mounted for rotation relative thereto, an eccentric sleeve on said axle, a second eccentric sleeve mounted on the first eccentric sleeve, a rim member mounted on the second eccentric sleeve, means for causing said rim member to rotate with the wheel and at the same time permitting radial movement relative thereto, traction lugs spaced circumferentially of the rim of the wheel and connected with said rim member, means for locking the eccentric sleeves together with their thick parts on the same side of the axle, whereby the rim member is held eccentrically relative to the axle and the lugs are caused to be progressively projected and withdrawn as the wheel revolves, and means for locking the eccentric sleeves together with their thick parts on opposite sides of the axle whereby the rim member is held concentrically of the axle and the sliding operation of the lugs is suspended.

1,781,462. FARE REGISTER. DANIEL N. HYMAN, Detroit, Mich., assignor to Hyman Register Corporation, Buffalo, N. Y., a Corporation of New York. Filed Oct. 10, 1929. Serial No. 398,600. 9 Claims. (Cl. 235—32.)



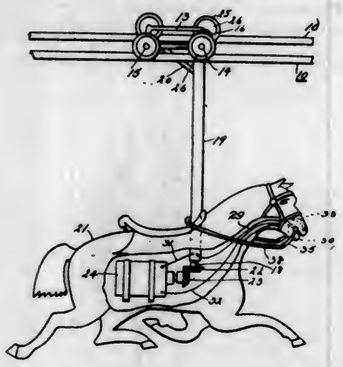
1. The combination with means having a slot for receiving coins and a register for registering the coins received, of a member pivotally supported adjacent said slot to be swung by the insertion of a coin through the slot, and means carried by said member for engaging and operating said register, said means being movable by the insertion of the coin laterally of the plane of swinging movement of said member, into position to operate said register.

1,781,463. GAME OR TOY. GEORGE H. JOHNS, New Haven, Conn., assignor of one-half to Steve Mustakos, New Haven, Conn. Filed Nov. 27, 1929. Serial No. 410,125. 14 Claims. (Cl. 273—101.)



1. In a game or toy, a projecting device, a projectile attached thereto, actuating means for said projecting device, and a trigger device engaging said projectile to hold said actuating means under tension.

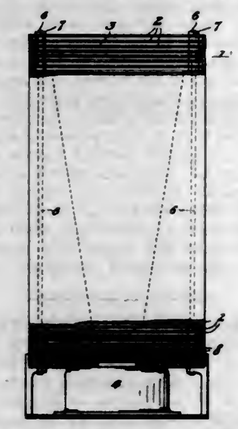
1,781,464. AMUSEMENT RIDE APPARATUS. HALLIGAN JOHNSON, San Diego, Calif. Filed June 24, 1929. Serial No. 373,304. 2 Claims. (Cl. 104—61.)



1. An amusement apparatus comprising a track adapted to convey an electric current, a truck mounted upon said track, a suspension tube depending from the truck, a figure secured to the lower portion of said tube, an electric motor mounted in the figure, a shaft journalled in said tube and geared to said motor, means for gearing said shaft to the drive axle of the truck, a rheostat mounted within the figure, a switch blade for coacting with said rheostat, and means for operating said switch blade by reins in the reach of the rider of said figure.

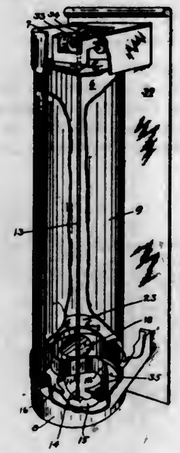
1,781,465. SOUND AMPLIFIER. THEODORE LINDENBERG, Columbus, Ohio. Filed Jan. 19, 1927. Serial No. 162,153. 3 Claims. (Cl. 181—27.)

1. A sound amplifier comprising a plurality of closely spaced vibratory plates arranged transversely with respect to the longitudinal axis of the amplifier, said plates being provided with centrally disposed openings constitut-



ing jointly a sound conduit, said plates being formed from materials possessing different resonance, and securing means for clamping said plates in assembled relationship.

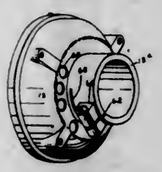
1,781,466. FLUID METER. RAY J. LYMAN, Berkley, Calif., assignor to Great Western Meter Company, Oakland, Calif., a Corporation of California. Filed July 5, 1924. Serial No. 724,251. 10 Claims. (Cl. 73—37.)



1. A fluid meter comprising a casing defining a vertically disposed cylindrical chamber and provided with an inlet passage through which fluid is adapted to flow tangentially into the chamber and an axially disposed outlet opening at an end of said cylinder, a rotatable shaft extending axially through said chamber, curved vanes mounted on said shaft and each vane having the curved portion thereof cylindrically curved about an axis parallel to said shaft, and a revolution counter arranged to be actuated by said shaft.

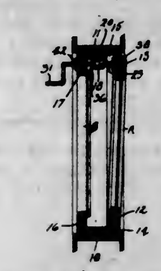
1,781,467. BEARING MOUNTING. SERN MADSEN, Clinton, Iowa, assignor to Curtis Companies, Incorporated, Clinton, Iowa. Filed Apr. 25, 1928. Serial No. 272,694. 2 Claims. (Cl. 308—189.)

1. In a motor construction, a stator, an end shield thereon having a hub, a shaft through the end shield, a rotor on the shaft within the stator, an opening through said hub large enough to allow introduction of the rotor therethrough, a bearing on said shaft within said hub, a bearing housing filling the space between said bearing and said hub and longitudinally slidable through the hub and



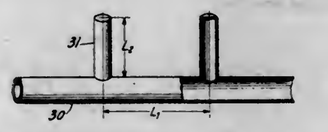
means for locking said housing in said hub, said means comprising clamping lugs and a clamping bolt, said hub being longitudinally split between said lugs and a transverse cut through a portion of the hub at a point spaced inward from the clamping bolt.

1,781,468. SASH LOCK FOR CASEMENT SASH. SERN MADSEN, Clinton, Iowa, assignor to Curtis Companies, Incorporated, Clinton, Iowa. Filed Feb. 18, 1929. Serial No. 340,967. 2 Claims. (Cl. 70—14.)



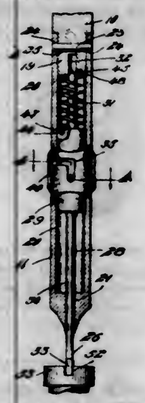
1. A locking device for a casement sash, comprising a housing mounted on the window jamb, a screw bolt having a head arranged for rotation and for sliding movement in the housing and also having a threaded portion adapted to be projected therefrom, a keeper plate confined between the housing and window jamb and having a portion overlying one end of the housing to prevent removal of the screw bolt therefrom, and a nut member carried by the sash and adapted to engage the threaded portion of the screw bolt.

1,781,469. WAVE FILTER. WARREN P. MASON, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed June 25, 1927. Serial No. 201,535. 23 Claims. (Cl. 178—44.)



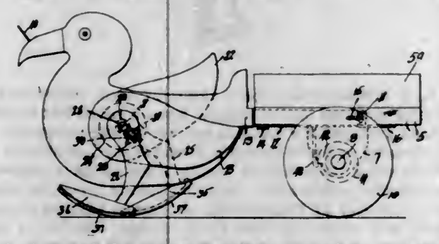
1. A wave filter comprising a wave transmission line of recurrent structure, the recurrent sections of said line being composed of portions of lines having distributed impedance constants and having linear frequency-phase displacement characteristics, certain of said component lines being disposed in shunt to the main transmission channel of the filter and certain being included in series therein, and said component lines having phase displacement constants proportioned with respect to one another to provide a series of uniform transmission bands centered about a series of harmonically spaced frequencies.

1,781,470. SCREW DRIVER. EMIL MUELLER, Cranston, R. I. Filed Apr. 11, 1930. Serial No. 443,877. 5 Claims. (Cl. 145—50.)



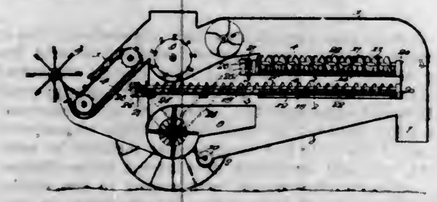
1. In a screw driver of the character described, a shaft including a broad point and provided with an axial bore bifurcating the point, and with a lateral bayonet slot, a handle upon the end of the shaft opposite the tip, an oscillatory plunger slidably mounted in the bore including a tip normally in advance of the point, a compressible torsional spring in the bore engaging and abutting the end of the plunger, and a locking pin in the plunger slidable in the slot.

1,781,471. FIGURE WHEELED TOY. FRANCIS M. MULLIGAN, Butte, Mont. Filed May 8, 1929. Serial No. 361,399. 2 Claims. (Cl. 46—45.)



1. A toy of the nature described, comprising a vehicle, a recessed base on the vehicle, a pair of depending lugs on the base, an axle rotatably mounted in the said lugs, a pair of ground engaging wheels on the axle, a grooved cam secured to the axle, a toy figure, a shaft on the figure extending into the recess, a bracket on the base extending into the recess, a screw extending through the bracket into the end of the shaft to rockingly support same, and a projection on the shaft extending into the cam groove for the purpose specified.

1,781,472. GRAIN SEPARATOR. OSCAR NICHOLAS NAGLE, Turpin, Okla. Filed Mar. 14, 1929. Serial No. 347,144. 4 Claims. (Cl. 130—23.)

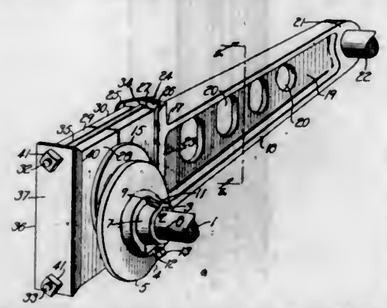


1. In a threshing machine, a casing, an intake conveyor, a threshing cylinder, a beater, a grain shoe with grain offtake boot, and a blower fan delivering over the grain shoe rearwardly, said casing having a straw discharge throat toward which the blower is directed; combined with an upper screening unit located above the blower and grain pan levels and to the rear of and below said beater, and a lower screening unit located below the upper unit and above the blower and grain pan levels, said lower unit extending from a place adjacent the front of the machine below said cylinder to a place adjacent said discharge throat, each of said screening units comprising longitudinally corrugated bottoms having a plurality of trough-like portions, continuous spiral conveyors located in each trough-like portion, the bottom of said upper screening unit being foraminous from end to end, the bottom of that portion only of the lower screening unit where it lies below the upper unit being foraminous, and means to turn said spiral conveyors.

1,781,473. PROCESS FOR DEHYDRATING VEGETABLE SUBSTANCES AND PRODUCTS OF ORGANIC CHARACTER. BRYNAR JAMES OWEN, Oxford, England, assignor to Sugar Beet and Crop Driers Limited, London, England, a Corporation of England. Filed Nov. 27, 1926, Serial No. 151,253, and in Great Britain Dec. 7, 1925. 4 Claims. (Cl. 34—24.)

4. That improvement in the method of drying vegetable material by passing heated air of low relative humidity through a mass of such material, which consists in so coordinating the temperature pressure and rate of flow of the air with the mass of material that exothermic reactions will take place in the material and will furnish part of the latent heat of vaporization necessary for drying, and that the total heat available is sufficient to preclude recondensation within the mass of material, but insufficient to afford any substantial degree of superheat to the vapor discharging from the material.

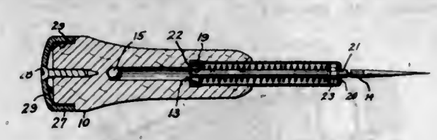
1,781,474. ECCENTRIC DRIVE. TORVALD N. PIERSON, Independence, Mo., assignor to The Gleaner Combine Harvester Corporation, Independence, Mo., a Corporation of Delaware. Filed Feb. 18, 1929. Serial No. 340,973. 4 Claims. (Cl. 74—1.)



1. In a device of the character described, an eccentric member including a journal, a pitman for the journal comprising an arm having a bearing receiving seat, a bearing for the arm comprising mated halves, grooves in opposite sides of the bearing, a keeper plate, and fastening devices extending through said keeper plate, bearing grooves, and pitman arm to retain the pitman on the journal.

1,781,475. ICE PICK. ARTHUR I. PLATT, Incompetent, by Bessie R. Platt, conservatrix, Fairfield, Conn., assignor to The Bridgeport Hardware Manufacturing Corporation, Bridgeport, Conn., a Corporation of Connecticut. Filed Aug. 19, 1929. Serial No. 386,995. 8 Claims. (Cl. 83—62.)

3. An ice pick comprising a handle having a passage therein, a shoulder in said passage, a cup bearing against said shoulder, a capped metallic sleeve expanded about said cup to form an anchor therefor in said handle, said cup and the capped end of said sleeve being provided with



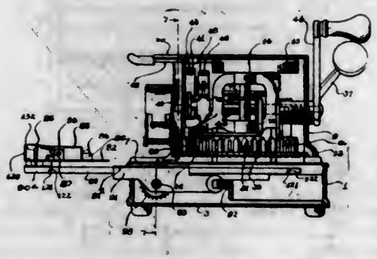
openings, a pointed rod passing through said openings, means on said rod for retaining said rod within said sleeve, and a compression spring about said rod within said sleeve tending to urge the rod out of said handle.

1,781,476. ARTICLE-PACKING STRIP. LACASSE ROUSSEAU, Montmagny, Quebec, Canada. Filed Sept. 5, 1929. Serial No. 390,636. 1 Claim. (Cl. 1—56.)



A packing strip for containing metal drawer stops in a stacked position, comprising a concave bottom member of elongated formation, a plurality of lugs stamped from the central portion of the member and extending at right angles therefrom, and a cover member bent longitudinally at substantially right angles having apertures to receive the ends of the lugs and to be secured in closely related position against the drawer stops resting in the bottom member by bending the end portion of the lugs against the top member.

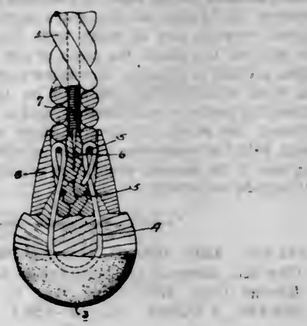
1,781,477. PRINTING MACHINE. CHARLES H. SAMPSON, Rochester, N. Y. Filed Aug. 11, 1928. Serial No. 298,982. 11 Claims. (Cl. 197—6.4.)



1. A printing machine comprising a printing mechanism, a work feeding carriage movable in the direction of the printing line, a bar supported by said carriage, inclined guides on which the bar is movable, a stop carried by said bar for stopping the movement of the carriage, spring means acting on the bar to move it on the guides in order to carry the stop away from stopping position, a manually controlled means on the carriage connected with the bar to move the latter against the spring means in order to carry the stop to stopping position.

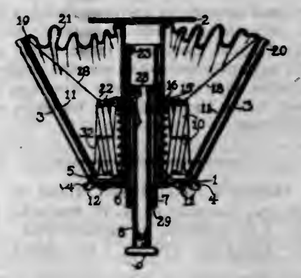
1,781,478. GRIP STRAP OR TOGGLE. CHARLES P. SCHLEGEL, Rochester, N. Y., assignor to Schlegel Mfg. Company, Rochester, N. Y., a Corporation of New York. Filed May 13, 1929. Serial No. 362,617. 5 Claims. (Cl. 105—354.)

1. A grip strap or toggle having a grip portion, and a laterally bendable spring enclosed in said grip portion and having a pin at one end projecting into a part of the strap to prevent lateral shifting of such end of the spring.



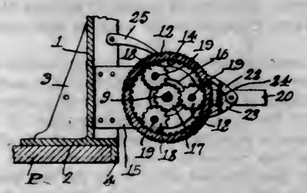
2. A grip strap or toggle having a grip portion, and a helically coiled spring enclosed in said grip portion and having a pin formed from the stock of the spring and anchored in the strap to prevent lateral shifting of such end of the spring.

1,781,479. COLLAPSIBLE UMBRELLA. MAX SCHWARTZ, Brooklyn, N. Y. Filed Oct. 1, 1927. Serial No. 223,438. 6 Claims. (Cl. 135—26.)



2. A collapsible umbrella including a handle in combination with a ring having a plurality of swingable members pivoted thereto, each swingable member being of such relative proportions as to constitute a substantially closed casing for the rest of the umbrella when all are retracted in closed position, a cap plate associated with said handle for closing the upper end of said casing, a retaining member surrounding said swingable members in order to hold them closed as an assembled casing, and means on said ring to retain said retaining member when displaced from said swingable members in open position thereof, there being a fabric associated with said swingable members.

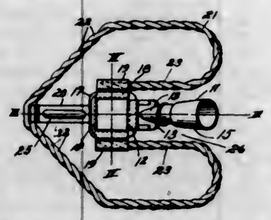
1,781,480. OPERATING MECHANISM FOR LOADING DEVICES. JOSEPH HARDMAN SIRMANS, Stockton, Ga. Filed May 19, 1928. Serial No. 279,095. 1 Claim. (Cl. 74—54.)



Mechanism of the class described including a shaft, a drum rotatable therewith, a ratchet wheel forming a part of the drum, a second ratchet wheel mounted for rotation

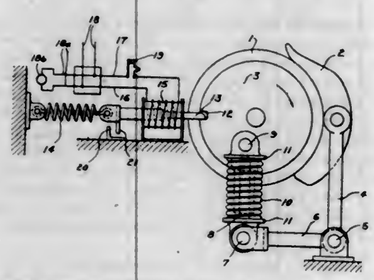
on the shaft and having a recess in one face, the wall of the recess constituting an internal gear, a gear in the recess secured to the shaft, a stationary member extending between the ratchet wheels, gears carried thereby and supported between and in mesh with the internal gear and the gear on the shaft, the teeth of the two ratchet wheels being pitched in opposite directions respectively, an actuating lever mounted for oscillation on the shaft, oppositely extending pawls carried thereby, and a resilient connection between the pawls for holding them normally in engagement with the respective ratchet wheels, and means engaging one of the ratchet wheels for holding the drum against retrograde movement.

1,781,481. MOP HEAD. HERBERT M. STURGIS, Kansas City, Mo., assignor, by mesne assignments, to Leigh Hunt, Kansas City, Mo. Filed May 1, 1929. Serial No. 359,436. 4 Claims. (Cl. 15—229.)



1. A mop head comprising an inner frame, a looped wire outer frame encompassing said inner frame with its front portion spaced apart from said inner frame and having spaced apart inwardly extending parallel arms secured to said inner frame, and an outwardly extending bar carried by said inner frame and secured at its outer end to said looped wire frame.

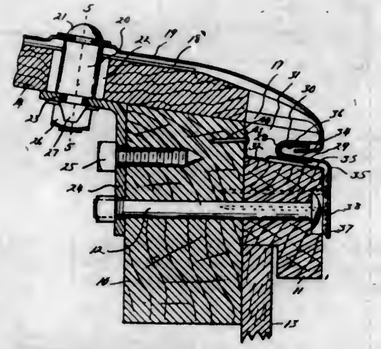
1,781,482. IRONING MACHINE. HANS O. SWOBODA, Edgewood, Pa., assignor to H. O. Swoboda, Inc., Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 31, 1927. Serial No. 179,861. 13 Claims. (Cl. 68—9.)



1. In an ironing machine having a roll element and a shoe element, one of which is movable into and out of engagement with the other, an electric motor for effecting such movement, and electrically operated means and an electric circuit therefor for normally holding the elements in cooperative engagement so long as said circuit is energized.

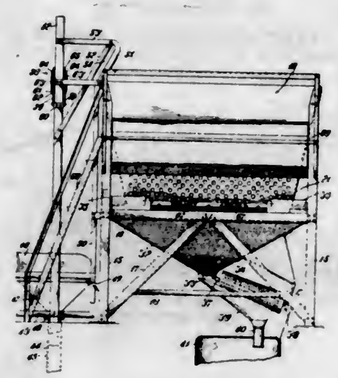
9. The combination with an ironing machine having a roll member and a shoe member, the shoe member being movable toward and away from the roll member and having a motor for operating the roll member of an electromagnetic means controlling movement of the shoe toward the roll member when the motor is energized and movement of the shoe member away from the roll member when the motor is de-energized, and a thermostat associated with the shoe in circuit with said electromagnetic means for de-energizing the same when the temperature of the shoe reaches a predetermined point.

1,781,483. CAR ROOF. WILLIAM D. THOMPSON, Detroit, Mich., assignor, by mesne assignments, to Hutchins Car Roofing Company, Detroit, Mich., a Corporation of Delaware. Filed Nov. 23, 1925. Serial No. 70,920. 12 Claims. (Cl. 108—5.)



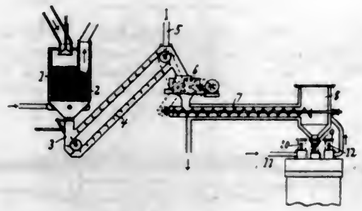
1. In a car roof the combination with a sub-structure, of a roofing sheet having a depending returnbent flange at an eave of the roof in spaced relation to the underside of the roofing sheet, and inner and outer flashing strips co-operating to form a bearing for said flange of sufficient depth to form a non-shearing stop to limit the outward movement of said roofing sheet, said flashing strips being free to move outwardly relative to said roofing sheet.

1,781,484. SAND-DRYING APPARATUS. ROSTON TUCK, Needles, Calif. Filed Mar. 17, 1930. Serial No. 436,326. 8 Claims. (Cl. 34—34.)



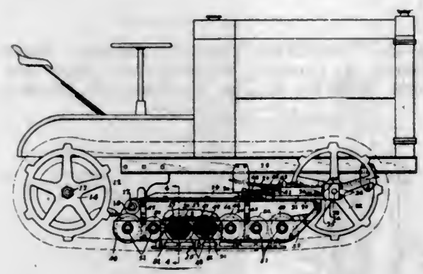
2. A sand drying apparatus comprising a vertically disposed receptacle having side walls converging toward the bottom and provided with holes of predetermined size and at prearranged distances apart; a perforated movable bottom for said receptacle; a plurality of steam conveying tubes arranged vertically within the receptacle adjacent to the walls and in vertical rows at intermediate points in the receptacle; top and bottom headers connected to all of said tubes; a funnel-shaped pan arranged beneath said receptacle and having a central discharge opening at bottom; a power driven screen located beneath said discharge opening; a screened sand receiving chute mounted beneath said screen and adapted to deliver the sand at a preselected point; a vertically movable power driven sand hoisting member arranged at one side of the apparatus; and means whereby said member is automatically moved into sand dumping position when it reaches a predetermined point in its upward travel.

1,781,485. GENERATING POWER IN INTERNAL-COMBUSTION ENGINES. HANS WAHL and ALBERT FISCHER, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Feb. 11, 1929, Serial No. 339,203, and in Germany Feb. 29, 1928. 7 Claims. (Cl. 123—23.)



1. A process for generating power which comprises operating internal combustion engines with still hot pulverized coking products.

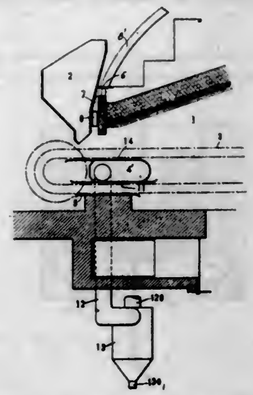
1,781,486. TRACKLAYING TRACTOR. ROLLIN H. WHITE, Cleveland Heights, Ohio. Filed Aug. 6, 1925. Serial No. 48,552. 2 Claims. (Cl. 305—9.)



1. In a supporting and propelling mechanism for track laying tractors, a rigid track frame, a plurality of roller bearing members journalled to said frame, said members having spaced bearing surfaces arranged in the same horizontal plane, an endless track formed of pivotally connected links encircling said frame and roller members, and providing an inner endless track upon which the bearing surfaces of said roller members rests, the distance between the journals of said rollers being greater than one-half the length of one of said links to prevent buckling of the ground run of said track, so that along the entire length of the ground run there is a roller engaging a link of the track member and each alternate link has at least two rollers in contact therewith.

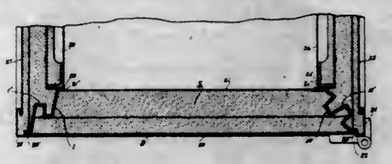
1,781,487. MECHANICAL STOKER FOR FORCED-DRAFT FURNACES. HENRI EMIL WITZ, Oberhausen, Germany, assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed June 21, 1923, Serial No. 646,735, and in Germany Aug. 3, 1922. 5 Claims. (Cl. 110—40.)

2. In combination, a forced draft furnace having a chain grate stocker, means for supplying forced draft to the rear part of the stoker, a member sealing the upper and lower runs of the stoker at the forward end thereof, said member having an aperture opposite a run of the



stoker, and means for creating a draft from said stoker through said aperture whereby dust is drawn from the stoker into said member.

1,781,488. JAMB SECTION. ALBERT L. ABBOTT, Canton, Ohio, assignor to The Diebold Safe & Lock Company, Canton, Ohio, a Corporation of Ohio. Filed Dec. 14, 1925. Serial No. 75,223. 4 Claims. (Cl. 109—2.)



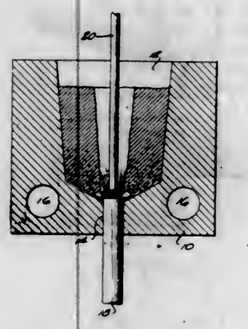
1. A safe including a door frame and a door, the door frame including a jamb member and the door including another jamb member, the jamb members interfitting and interlocking with each other for preventing lateral deflection of the door frame, and each jamb member having identical cross-sections.

1,781,489. LOUD-SPEAKER HORN. ALEXANDER I. ABRAHAMS, New York, N. Y. Filed Jan. 22, 1929. Serial No. 334,144. 5 Claims. (Cl. 181—27.)



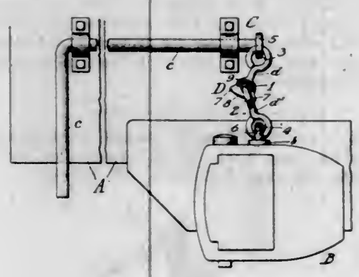
5. In combination, a tapered loud speaker horn having its narrow inlet end passing through the wider portion thereof and a supporting frame connected to said wider portion, said supporting frame being spaced from the narrow inlet end of the horn.

1,781,490. METHOD OF FORMING ALLOYS. PERCY A. E. ARMSTRONG, New York, N. Y. Filed May 8, 1928. Serial No. 276,012. 6 Claims. (Cl. 75—22.5.)



1. The method of melting metals in a metallic crucible having a lower melting point than that to which the melted metal is raised, which comprises the steps of exposing metallic ingredients intermixed with slag forming ingredients to the heat of an electric arc initiated near the bottom of a metallic crucible, while permitting heat to dissipate from the walls of the crucible, whereby a protective slag lining for the crucible is formed progressively as the volume of molten metal increases.

1,781,491. UNCOUPLING DEVICE. CHARLES W. BOOTH, Chicago, Ill. Filed Dec. 4, 1926. Serial No. 152,570. 3 Claims. (Cl. 213—166.)

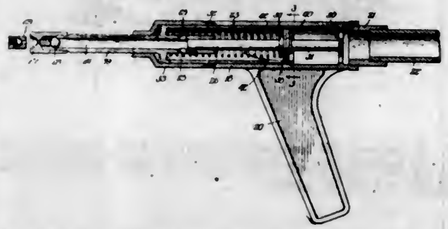


1. A link adapted for connecting the uncoupling lever of a car coupler with the coupling pin thereof, consisting of two members only, each consisting of a shank and an eye at each end thereof shaped and proportioned to form rounded shoulders adjacent their juncture with said shank, eyes on different members interlocking to connect said link members end-to-end and the eyes in the remote ends of said link members being adapted to interlock with eyes formed, respectively, in the uncoupling lever and in the coupling pin, all of said eyes being proportioned and arranged to permit said link to flex freely in operation, and a pair of lugs formed at that end of one link member which is connected to the second link member and which project at opposite sides of the eye formed therein in position to contact with the eye of said second link member when said link is flexed to its contemplated limit at an angle to the plane of the eye of said second link member.

1,781,492. MANUFACTURE OF RUBBER. WILLIS A. BOUGHTON, Cambridge, Mass. Filed July 28, 1923. Serial No. 654,465. 6 Claims. (Cl. 18—53.)

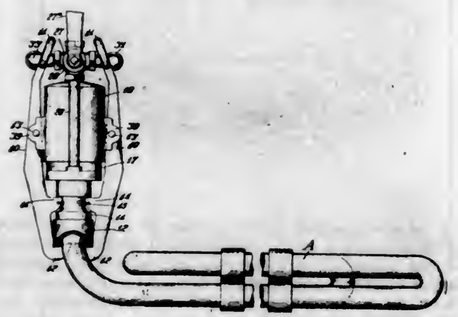
4. In the art of vulcanizing, the step of passing into an ammoniacal suspension of rubber a gas comprising the hydride of an element of the sulphur family the atomic weight of which is at least as great as that of sulphur, said gas being in excess of the amount required to react with the ammonia.

1,781,493. LUBRICATING MEANS. CHARLES L. BYRON, Chicago, Ill., assignor, by mesne assignments, to The Wayne Pump Company, Baltimore, Md., a Corporation of Maryland. Filed Mar. 25, 1926. Serial No. 97,167. 13 Claims. (Cl. 221—47.4.)



6. In a lubricant dispensing nozzle, the combination with adjacent cooperating relatively movable operating members, one of said members being provided with fixed and rotatively movable means, said movable means being controlled by the other of said members for controlling the flow of grease into said other member.

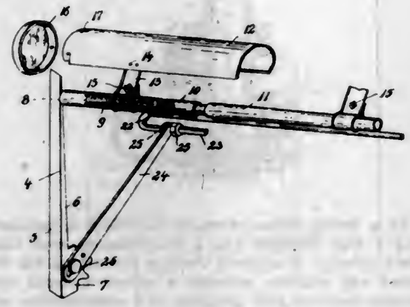
1,781,494. SUPERHEATER-UNIT-TESTING DEVICE. GEORGE W. CARRIGAN, Cleburne, Tex. Filed Dec. 9, 1929. Serial No. 412,688. 5 Claims. (Cl. 73—51.)



1. A device of the character described comprising ported means adapted to receive the orificed ends of a superheater unit; a pressure medium receiving conduit communicating with one port of said means; a discharge conduit communicating with the other port of said means; means, operable by a medium under pressure, whereby said ported means and the superheater unit are clamped together; and controllable means whereby a fluid under pressure and compressed air are alternately admitted to said pressure medium receiving conduit.

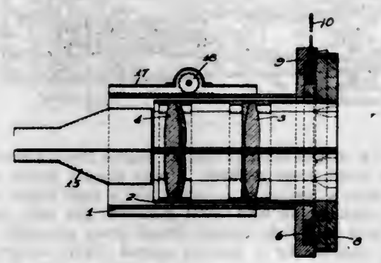
1,781,495. SIDE AWNING. MELVIN L. CLELAND, Hastings, Nebr., assignor to G. A. Roth Manufacturing Company, Hastings, Nebr., a Corporation. Filed Jan. 10, 1929. Serial No. 331,418. 11 Claims. (Cl. 156—44.)

4. A side awning of the class described, comprising, in combination, side pieces adapted to be held in the grooves of a window opening by frictional engagement with the walls of said grooves, a telescopic rod extending between said side pieces, resilient means tending to expand said telescopic rod whereby the pressure holds the side pieces



in position in the grooves, arms extending from said telescopic rod, and a casing carried by said arms, the casing being adapted to hold a spring roller having a canopy mounted thereon.

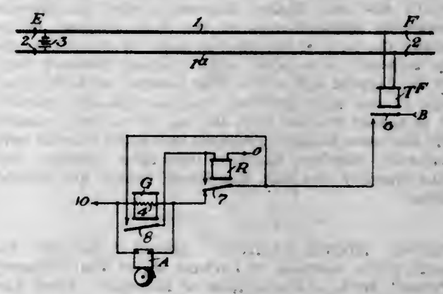
1,781,496. APPARATUS FOR COLOR PHOTOGRAPHY. HAROLD N. COX, Glen Ridge, N. J., assignor to Cox Multi-Color Photo Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Apr. 27, 1928, Serial No 273,257. Renewed Sept. 19, 1930. 2 Claims. (Cl. 88—1.)



1. In apparatus for color photography a support, a lens barrel borne by said support, means for adjusting said lens barrel in axial direction upon said support, a plurality of lenses borne each in a separate carrier and arranged within said lens barrel, with axes parallel one to another and to the axis of the barrel, the carriers being mounted upon said lens barrel, and being movable radially in such mounting, and an adjusting ring borne by and rotatable upon said lens barrel, and encircling said lens barrel, said carriers and said adjusting ring engaging one another over surfaces of spiral extent with respect to the axis of the lens barrel.

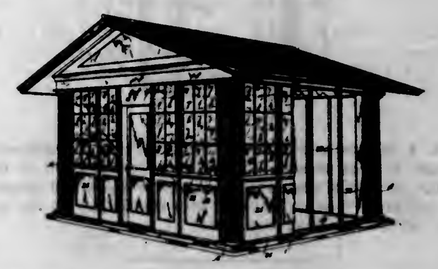
1,781,497. TRAIN-ANNUNCIATING APPARATUS. PAUL H. CRAGO, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Sept. 20, 1929. Serial No. 393,926. 2 Claims. (Cl. 246—124.)

1. A system for indicating the approach of trains, comprising a section of track, a train controlled relay associated with said section and having a normally open contact which is closed when the section is occupied, an annunciator, a slow pick-up relay, a normally de-energized cut-out relay, a circuit for said annunciator including said normally open contact and a back contact of said cut-out relay as well as the winding of said slow pick-up relay, a pick-up circuit for said cut-out relay including said normally open contact and the contact of said slow pick-up



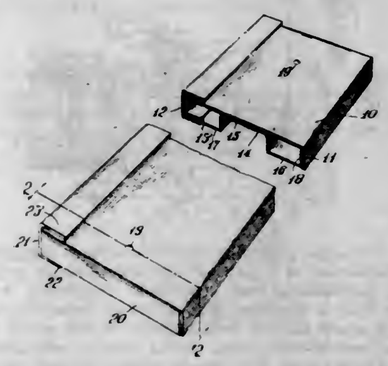
relay, and a stick circuit for said cut-out relay including said normally open contact and a front contact of the cut-out relay.

1,781,498. METAL BUILDING. HERBERT C. DRUMM and JOHN M. CALLAHAN, Canton, Ohio, assignors to The Union Metal Manufacturing Company, Canton, Ohio, a Corporation of Ohio. Filed Apr. 1, 1926. Serial No. 99,000. 6 Claims. (Cl. 189—2.)



1. A sheet metal building including uprights, and hollow metal panels, located between said uprights, said panels having flanged joints at their edges forming permanent closures for the hollow panels, and means connecting said flanges and said uprights.

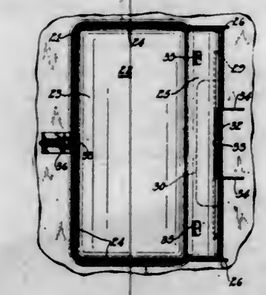
1,781,499. STRAIGHTEDGE FOR WALL-PAPER TRIMMERS. FRED E. EDGREN, Chicago, Ill. Filed Jan. 2, 1930. Serial No. 417,997. 5 Claims. (Cl. 33—107.)



3. A straightedge for wall paper trimmers comprising a metallic body member whose longitudinal sides are bent

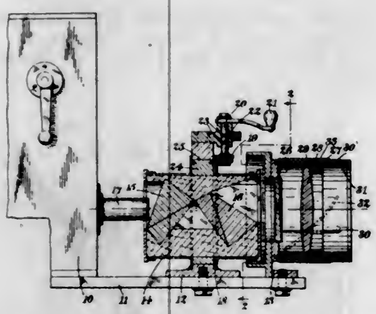
downwardly at right angles to provide supporting legs; a metallic filler member of channel formation having its base arranged flush with the lower surface of the body member, while the lower sides of the channel are flanged laterally and said flanges disposed toward the opposite downwardly disposed sides of the body member; means whereby the base of the filler member is secured to the body member; a metallic track channel disposed flush with the forward side of the body member, with the upper flange of the track channel disposed inwardly parallel and in spaced relation with the top of the body member while the lower flange is arranged in lapping relation with a laterally disposed flange of the filler member; and means whereby the last mentioned flanges are secured together.

1,781,500. MOTOR VEHICLE. HARRY C. ELLIOTT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 29, 1927. Serial No. 187,440. 10 Claims. (Cl. 180—69.)



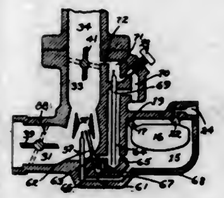
1. A closure comprising a plate having a peripheral flange, a hinge member formed by a continuation of the flange on one of the side edges of the plate and flanges on the hinge member integral with the flanges on the top and bottom edges of the plate.

1,781,501. CAMERA AND OTHER OPTICAL PROJECTION DEVICE. GEORGE WILLIAM FORD, Brighton, England, assignor to Herbert George Ponting, London, England. Filed Feb. 25, 1928, Serial No. 256,882, and in Great Britain Mar. 6, 1926. 2 Claims. (Cl. 88—16.)



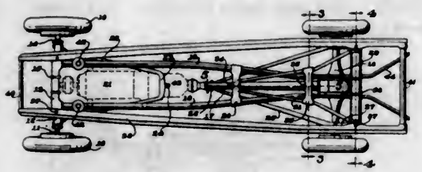
1. A device for producing distorted pictures comprising the combination of a pair of oppositely-directed prisms and a parellelizing lens attachment comprising a bi-concave lens, a bi-convex lens, a casing containing said lenses, a mount slidable longitudinally in said casing and carrying said bi-convex lens, radial pins on said mount, means guiding said pins longitudinally of said casing, and a sleeve rotatable on said casing and having inclined slots adapted to engage said pins.

1,781,502. CARBURETOR. HENRY FORD, Dearborn, Mich., assignor to Ford Motor Company, Dearborn, Mich., a Corporation of Delaware. Filed June 16, 1928. Serial No. 285,907. 6 Claims. (Cl. 261—41.)



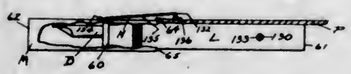
1. In a device of the character described, a carburetor having a float chamber and a compensating well and a mixture passage, a metered opening connecting the float chamber and mixture passage, a second metered opening connecting the float chamber and compensating well, an unrestricted opening connecting the compensating well and the mixture passage, and a metered opening connecting the unrestricted opening and the float chamber.

1,781,503. VEHICLE CONSTRUCTION. HENRY FORD, Dearborn, Mich., assignor to Ford Motor Company, Dearborn, Mich., a Corporation of Delaware. Filed Apr. 18, 1929. Serial No. 356,022. 5 Claims. (Cl. 180—64.)



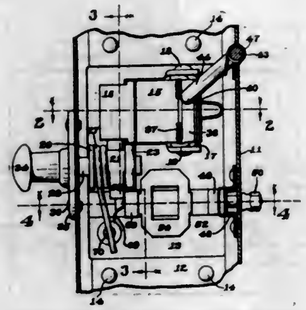
1. In a vehicle construction, an engine frame associated with a front cross member, a rear chassis frame associated with a rear cross member, and a body frame resiliently mounted on said cross members, the said engine frame and said rear chassis frame being pivotally connected together by a pair of spaced pivots to thereby permit the said cross members to oscillate relative to each other and to the said body frame.

1,781,504. FOUNTAIN PEN. WILLIAM C. FORD, Andover, Mass. Filed Sept. 17, 1928. Serial No. 306,415. 8 Claims. (Cl. 120—46.)



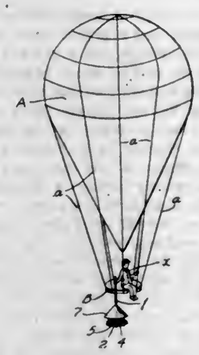
1. The combination with a fountain pen having a barrel which contains a compressible bulb adapted to feed a pen point carried at one end of the barrel; of a compressor positioned inside the barrel and adapted to compress the bulb; an operating member for the compressor movable in an opening in the side of the barrel and having its head normally positioned inside the surface of the barrel, said member being in engagement with the compressor; a cap adapted to fit either end of the barrel; a pressure control member and transmitting member consisting of an elastic shank fixed to the outside of the cap and extending beyond the open end of the cap in position to register with the opening in the side of the barrel when the cap is on that end of the barrel which is opposite the pen point.

1,781,505. DOOR LATCH. JOSEPH GALAMB, Detroit, Mich., assignor to Ford Motor Company, Dearborn, Mich., a Corporation of Delaware. Original application filed Aug. 15, 1927, Serial No. 212,909. Divided and this application filed Aug. 31, 1929. Serial No. 389,657. 6 Claims. (Cl. 292—196.)



1. In a door latch, a door formed of sheet material having inside and outside panels connected at one edge by a door pillar, a latch mounted on the pillar, an outside door handle arranged to operate said latch, a bolt slidably mounted on the door pillar, and a second bolt slidably mounted on the inside panel in position so that operation thereof will operate the first mentioned bolt to position where the handle will not operate the latch.

1,781,506. SPORT JUMPING APPARATUS. ALEXANDRE F. GODEFROY, Mexico, Mexico. Filed Jan. 6, 1930, Serial No. 418,877, and in Mexico Sept. 3, 1929. 7 Claims. (Cl. 244—3.)

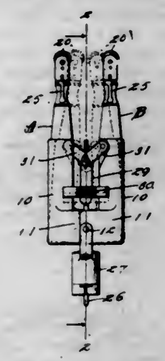


1. A sport jumping apparatus adapted to be used as a thrust device by the passenger of a balloon to assist the balloon to rise, composed of a staff or handle, and a buoyant device arranged at the lower end of said handle.

1,781,507. METHOD OF PREPARING METAL FOR PAINTING. JAMES H. GRAVELL, Elkins Park, Pa., assignor to American Chemical Paint Company, Ambler, Pa., a Corporation of Delaware. Filed Oct. 2, 1928. Serial No. 309,905. 7 Claims. (Cl. 148—6.5.)

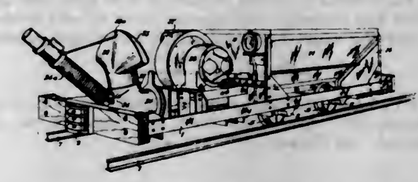
1. The method of preparing metal for painting, consisting in coating the metal with phosphoric acid and treating the metal with a material adapted to convert phosphoric acid into a hydrogen phosphate.

1,781,508. DENTAL HANDPIECE. JOSEPH GROSS and ISAAC HELLMAN, Bronx, N. Y. Filed Apr. 24, 1928. Serial No. 272,492. 6 Claims. (Cl. 32—10.)



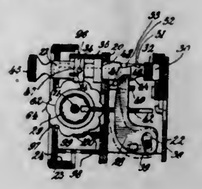
6. A dental hand-piece comprising two shanks being pivotally mounted for movement into or out of divergent relation, driven shafts disposed in each shank, means common to both shafts whereby both shafts may be driven simultaneously, and manually operable means to shift the shanks toward or from each other.

1,781,509. ROCK DUSTER. ALBERT J. GURNEY, Canton, Ohio, assignor to The American Mine Door Company, Canton, Ohio, a Corporation of Ohio. Filed Nov. 15, 1927. Serial No. 233,407. 8 Claims. (Cl. 302—37.)



1. Conveyor blower apparatus including a hopper, longitudinal troughs in the bottom of the hopper, a blower communicating with the hopper, a discharge connection communicating with the blower, conveyer screws located in said troughs for feeding material from the hopper to the blower whereby the material will be blown from the discharge connection, an agitator shaft in the hopper located in a plane between the conveyer screws, and means for continuously rotating the agitator shaft in one direction and both the conveyer screws in a direction opposite to the rotation of the agitator shaft.

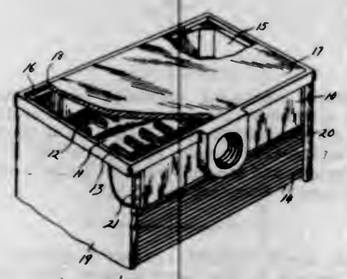
1,781,510. PERMUTATION LOCK. ALEXANDER G. HATCH, Farmington, Conn., assignor to The Sesamee Company, Hartford, Conn., a Corporation of Connecticut. Filed June 29, 1928. Serial No. 289,157. 29 Claims. (Cl. 70—53.)



1. A lock comprising a mounting member, a bar swiveled in said member so as to be rotatable from an angular

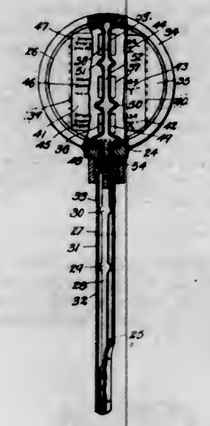
position "A" to an angular position "B," and vice versa, the bar being movable endwise when in either of said angular positions from a longitudinal position "1" to a longitudinal position "2", and vice versa, movement-obstructing means preventing rotational movement of the bar except when in position "2", a latch by which the bar may be engaged and held fast in its "A" position, and a permutation mechanism by which the release of the bar from the latch may be conditioned on the setting of the mechanism in accordance with a predetermined combination.

1,781,511. RADIATOR. RAYMOND L. HAWKINS, Detroit, Mich., assignor to Long Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 24, 1927. Serial No. 228,419. 5 Claims. (Cl. 257—154.)



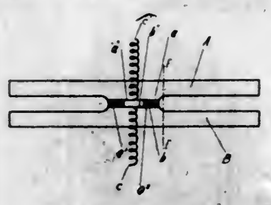
1. In a radiator, spaced headers, a side plate and projections and recesses carried respectively by said headers and plate for slidably securing said plate to said headers.

1,781,512. LUBRICATION GUIDE. CARL E. HOLT, Kansas City, Mo. Filed Nov. 26, 1928. Serial No. 322,052. 33 Claims. (Cl. 116—114.)



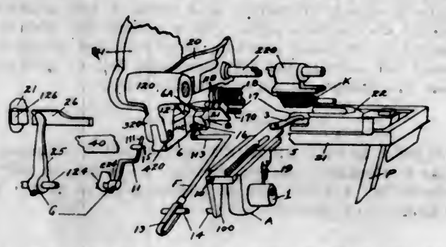
1. A temperature indicator applied to a machine having a plurality of heat-emitting elements, comprising a stem containing a heat responsive fluid and having a plurality of bulbous portions, each positioned in relation with a selected heat-emitting element, and means combining the responses of said responsive fluid to produce a composite result.

1,781,513. ELECTRICAL TUNING FORK. FERNAND HOLWECK, Paris, France, assignor to Etablissements Edouard Belin, Paris, France, a Corporation of France. Filed May 11, 1929, Serial No. 362,415, and in France May 15, 1928. 7 Claims. (Cl. 84—409.)



6. An electric tuning fork comprising in combination, a pair of spaced vibrating quartz elements, each thereof having a central projection, metallic layers superimposed on each projection, and piezo-electric means interposed between said metallic layers for setting said elements in vibration.

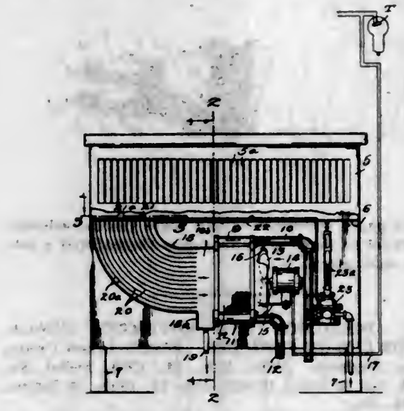
1,781,514. TRANSFER MECHANISM FOR LOOMS. HAROLD M. JEFFREY, Methuen, Mass., assignor to Patent Protection Corporation, Lowell, Mass., a Corporation of Massachusetts. Filed Sept. 17, 1927. Serial No. 220,143. 8 Claims. (Cl. 139—243.)



1. The combination with a loom having a lay beam which carries a dagger, and a breast beam on one end of which is a battery for bobbins and a pivoted bobbin transfer hammer operable by and to which is pivoted a dog; of a dog spring and a dog stop in position to hold the dog in a position to be struck by the dagger when the lay beam beats up; a detector bed attached to the breast beam; a detector slide slidable therein in a direction substantially the same as the movement of the lay beam and carrying a slide stud; a slide return spring; a detector finger pivoted at one end to the slide having a shoulder on the inside and having its free end curved away therefrom towards the outside of the loom, said end having on its inside a smooth rounded heel and ending in teeth beyond said heel; an adjustable detector stop so carried by the slide as to engage said shoulder and to keep the finger normally in position in which said teeth are out of a line through the finger pivot and perpendicular to the lay beam; a detector finger return spring; a connecting rod having at one end a slot through which the slide stud passes and at its other end connected to said dog below its pivot; a shuttle binder at the end of the lay beam opposite the battery and connections between said binder and dog whereby the dog is removed from position in front of said dagger when the shuttle engages said binder.

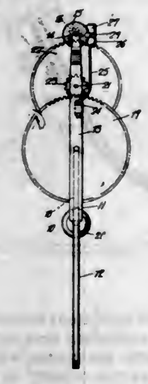
1,781,515. HUMIDIFIER AND HEATER. CARROLL E. LEWIS, St. Paul, Minn., assignor to The Lewis Corporation, Inc., Minneapolis, Minn., a Corporation of New Mexico. Filed Mar. 14, 1928. Serial No. 261,576. 5 Claims. (Cl. 261—9.)

1. In air humidifying apparatus, an inclined evaporating flue having an air intake at its lower end and an air outlet at its upper end, a plurality of spaced inclined evaporating plates mounted in said flue, means for distributing liquid upon the upper portions of said evaporating plates, a fan for setting up an upward circulation of air through said flue passing over and impinged against said plates, said plates each having a series of relatively



narrow transverse grooves therein, wherein water will lodge until said grooves are filled, said grooves being successively filled by said water and spreading said water over said plates in a thin film.

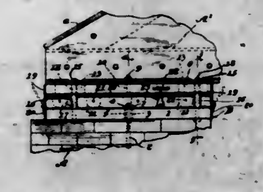
1,781,516. SPARKLER TOY. JOHN E. MALKIN, New York, N. Y. Filed Aug. 20, 1929. Serial No. 387,255. 1 Claim. (Cl. 46—14.)



A sparkler toy of the character described comprising a handle member, a pair of spaced, opposed, parallel arms extending longitudinally from one end thereof, a train of meshed gears mounted for rotation at longitudinally spaced points between the arms, a steel friction wheel fixed for rotation to the gear remote from the handle, an actuating crank operatively connected to the gear adjacent the handle, a resilient arm secured to one of the first named arms and extending substantially parallel therewith in spaced relation thereto and terminating adjacent the periphery of the friction wheel, integral ears on the free end portion of the resilient arm extending inwardly over opposite sides of the friction wheel and a friction block removably mounted on the resilient arm between the ears and having a concaved face disposed in yielding engagement with the periphery of the friction wheel.

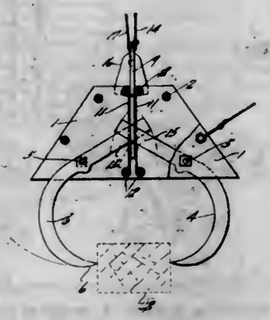
1,781,517. EXPANSION BEARING. JOHN L. MCKEOWN, Chicago, Ill. Filed July 15, 1927. Serial No. 205,945. 14 Claims. (Cl. 108—23.)

4. An expansion bearing for the purpose specified, comprising a bearing plate adapted to be anchored to a supporting structure, a second bearing plate upon which the member to be supported is adapted to rest directly, anti-friction members interposed between said bearing plates and self-releasing means movably anchoring said second bearing plate to the fixed bearing plate.



5. An expansion bearing as specified in claim 4, in which the means for forming the chamber between said plates within which the anti-friction members are enclosed, comprising shutters hinged to one bearing plate and adapted to bear against the other, and springs applied to said shutters adapted to maintain them yieldingly in contact with parts of the bearing plate other than that to which they are pivoted, thereby permitting movement of said second plate with a supported member and also providing access to the chamber defined thereby.

1,781,518. AUTOMATIC GRAPPLE. ANDREW ASA MUNN, Rapid City, S. Dak. Filed Mar. 5, 1930. Serial No. 433,199. 1 Claim. (Cl. 294—112.)

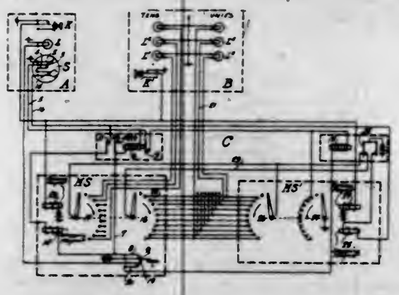


In a device of the kind described, two side plates secured together in spaced relation, an operating link slidably mounted between the said plates, one end of the said operating link projecting outwardly of the plates, a pair of grappling hooks pivotally mounted between the plates in spaced relation, the inner ends of the hooks being passed loosely through the slot of the operating link, an operating cable secured to the projecting end of the said operating link, and a release cable secured to the said plates adjacent the projecting end of the said operating link.

1,781,519. SIGNALING SYSTEM. CLARENCE W. NESSELL, Forest Park, Ill., assignor to Reserve Holding Company, Kansas City, Mo., a Corporation of Delaware. Filed Aug. 3, 1927. Serial No. 210,221. 4 Claims. (Cl. 177—353.)

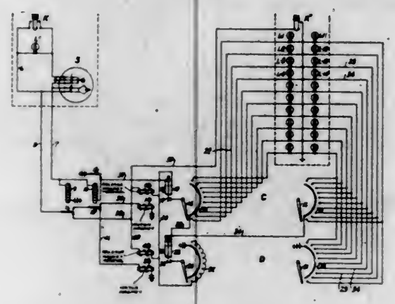
1. In a signaling system, a plurality of rows of indicating devices, one row representing the units digit of a number and the other row representing the tens digit of a number, an impulse sender for transmitting series of impulses corresponding to digits of any desired number, a series of step by step switches one for each digit, means whereby one switch responds to the first series of impulses transmitted to light a lamp in the units row and prepare a circuit for the corresponding lamp in the tens row, means whereby another switch responds to the second series of

impulses to light another lamp in the units row, and means operated on the sending of the second series of impulses



to extinguish the first lighted lamp in the units row and complete the prepared circuit of the corresponding lamp in the tens row.

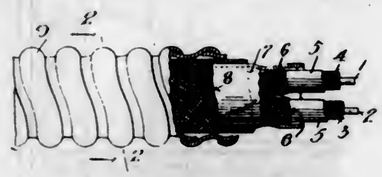
1,781,520. SIGNALING SYSTEM. CLARENCE W. NESSELL, Forest Park, Ill., assignor to Reserve Holding Company, Kansas City, Mo., a Corporation of Delaware. Filed Jan. 6, 1928. Serial No. 244,785. 7 Claims. (Cl. 177—353.)



1. In a signaling system, a sending station having means for sending signals comprising numbers of one or more digits, a receiving station having a plurality of rows of lamps, one row representing the units digit of a number, another row representing the tens digit of a number, a series of step-by-step switches, one switch for each digit, off-normal springs for one of said switches operative upon the first movement of the associated switch, and means operated responsive to the transmission of the first digit of a number signal to operate another of said switches for lighting a lamp in the units row through the off-normal springs, and for preparing a circuit for the corresponding lamp in the tens row through the off-normal springs, said means operated responsive to the transmission of the second digit of the signal to operate the first mentioned switch for lighting another lamp in the units row and for operating the associated off-normal springs to extinguish the first lamp lighted in the units row and light the corresponding lamp in the tens row.

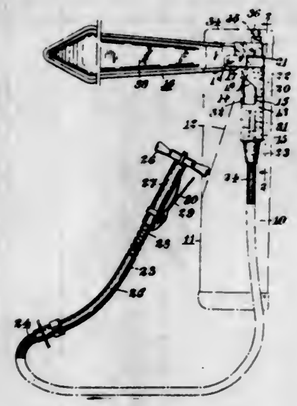
1,781,521. ELECTRICAL CONDUCTOR AND METHOD OF MAKING THE SAME. FREDERICK PALMER and JOHN E. MCAULIFFE, Brooklyn, N. Y., assignors to Triangle Conduit Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Jan. 9, 1929. Serial No. 331,177. 4 Claims. (Cl. 173—266.)

3. A multi-element electrical conductor comprising a plurality of conducting elements each provided with an insulation, paper crushed therearound, a covering for the paper, crushed paper surrounding all of said elements,



all of said paper coverings having edges thereof substantially parallel to the longitudinal axes thereof and a covering for said paper.

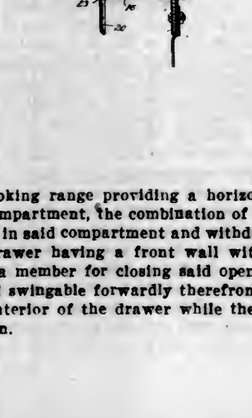
1,781,522. DIRECTION AND MOVEMENT INDICATOR FOR USE ON VEHICLES. ROBERT JAMES PATON, London, England. Filed Feb. 19, 1930, Serial No. 429,624, and in Great Britain Feb. 27, 1929. 8 Claims. (Cl. 116—52.)



1. A direction and movement indicator of the type specified comprising an indicating arm arranged to swing both about a substantially horizontal axis and about a substantially vertical axis, a support in which the indicating arm is mounted at one end to extend transversely to and to swing about one of said axes, a base part on which the support is mounted to pivot about the other of said axes, a slider which is mounted on the support so as to be fixed therein as regards rotation but to be free to slide relatively thereto in the direction of the length of the pivotal axis of the support, a single operating shaft so connected to the slider as to transmit linear and rotary movement thereto, and an operative connection between the slider and the arm such that the sliding movement of the former causes the latter to swing relatively to the support.

1,781,523. CHAMBER-FLUSHING DEVICE. LAWRENCE W. PECK, Chicago, Ill. Filed Jan. 25, 1929. Serial No. 334,952. 3 Claims. (Cl. 184—1.5.)

1. In a device for cleaning differential housings and the like, a reservoir for materials flushed from the housing, a block in the base of said reservoir, a receptacle for a cleaning fluid attached to said block, concentrically arranged pipes supported in said block, the inner pipe extending into said receptacle, means for delivering air under pressure to the outer pipe, a hollow casing on the outer pipe, concentrically arranged pipes secured in said



casing, and a flexible tubular member interchangeably attachable to the outer pipe of the first mentioned pair of pipes and the inner pipe of the second pair.

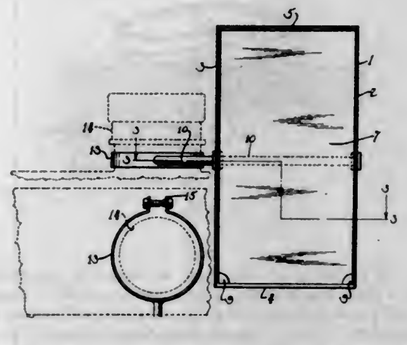
1,781,524. DRAWER CONSTRUCTION FOR STOVES AND THE LIKE. GEORGE E. PICKUP, Newark, Ohio, assignor to The Wehrle Company, Newark, Ohio, a Corporation of Ohio. Filed Oct. 4, 1928. Serial No. 310,277. 5 Claims. (Cl. 126—339.)



1. In a cooking range providing a horizontal forwardly opening compartment, the combination of a drawer slidably mounted in said compartment and withdrawable therefrom, said drawer having a front wall with an opening therein, and a member for closing said opening hinged to said wall and swingable forwardly therefrom to afford access to the interior of the drawer while the drawer is in closed position.

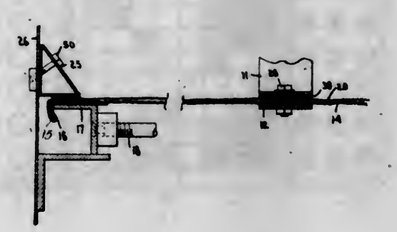
CARNEGIE LIBRARY OF ATLANTA

1,781,525. ATTACHMENT FOR AUTOMOBILE RADIATORS. FRANK POWER, Horton, Kans. Filed Oct. 19, 1928. Serial No. 313,541. 5 Claims. (Cl. 40—68.)



1. A device of the type described comprising a frame having openings therein, bearing members disposed in said openings, a horizontal shaft extending through said bearing members for rotatably supporting said frame, and a bracket carried by said shaft for securing said shaft to a suitable support.

1,781,526. APPARATUS FOR SCREENING MATERIALS. MORLEY PUNSHON REYNOLDS, Cleveland Heights, Ohio, assignor to The W. S. Tyler Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 28, 1926. Serial No. 105,113. 7 Claims. (Cl. 209—347.)

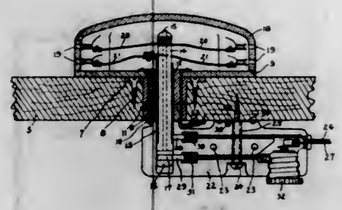


1. In apparatus of the character described, the combination of a stationary frame, a woven wire screen supported in an inclined position in said frame, said screen being engaged along two opposite edges in said frame and being tensioned to a uniform vibratory tension, a second woven wire screen of considerably finer mesh than said first-named screen supported upon said first-named screen in an untensioned condition, and means for rapidly vibrating said first-named screen.

1,781,527. FERROUS ALLOY. BYRAMJI D. SAKLATWALLA, Crafton, Pa. Filed Oct. 29, 1927. Serial No. 229,792. 2 Claims. (Cl. 75—1.)

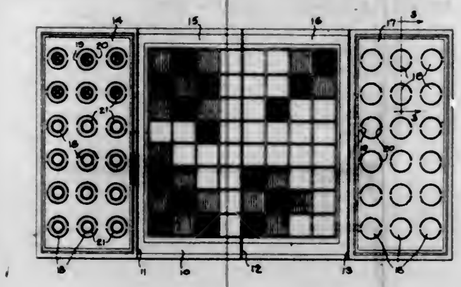
1. A ferrous alloy containing from 0.5% to 5.00% copper from 0.5% to 6.00% silicon, and from 0.1% to 2.00% aluminum, together with carbon within the range of cast iron, and characterized by its resistance to scaling and corrosion at high temperatures.

1,781,528. TABLE CONTACT. JUSTIN SCHNEEMANN, Chicago, Ill. Filed Mar. 21, 1929. Serial No. 348,748. 5 Claims. (Cl. 173—338.)



1. In a device of the class described in combination with a table board having a hole therein, a sleeve fastened to said board and extending into said hole and having a depression in its bore, a top housing, electric contacts in said housing, means on said housing adapted to extend into said sleeve and removably engaging said depression, electric conductors connected to said contacts and extending downwardly from said top housing through and beyond said hole, a lower housing and electric conductors in said lower housing to contact with said first mentioned conductors.

1,781,529. GAME. ISIDOR SHULMAN, New York, N. Y. Filed Jan. 20, 1930. Serial No. 421,946. 5 Claims. (Cl. 273—131.)

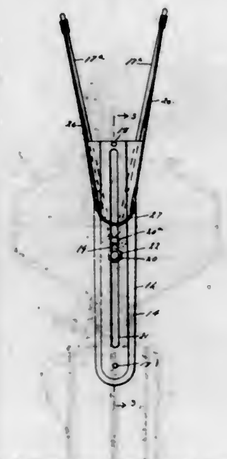


1. In a game of the character described, a sheet of relatively stiff material, one portion of which constitutes a playing area of predetermined design for movable playing pieces, said sheet including a second portion foldable over upon said first-mentioned portion, and a plurality of partially cut-out playing pieces formed in said second portion of the sheet.

3. In a game of the character employing movable playing pieces, a sheet of relatively stiff material of which both the playing area for the game and the movable pieces therefor are formed, said playing pieces being partially cut out of said material whereby to facilitate their ready removal therefrom.

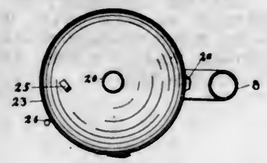
1,781,530. COMBINATION SLING SHOT AND BOW. EDWIN SCOTT SMITH, Harrisburg, Pa. Filed Apr. 13, 1929. Serial No. 354,800. 4 Claims. (Cl. 124—2.)

1. A combined sling-shot and bow comprising a hollow handle having a longitudinal slot in the face thereof, a block slidably housed within the handle, a screw projecting through said slot, a nut run upon said screw for holding



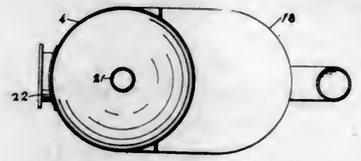
the block in any adjustment, two arms, the inner ends of which are pivoted to said block, and an elastic sling attached to the outer ends of said arms.

1,781,531. BOILER AND WATER HEATER. LOUIS D. SUMMERS, Decatur, Ill., assignor, by mesne assignments, to Leader Iron Works, Inc., Decatur, Ill., a Corporation of Delaware. Filed Sept. 22, 1927. Serial No. 221,368. 1 Claim. (Cl. 122—122.)



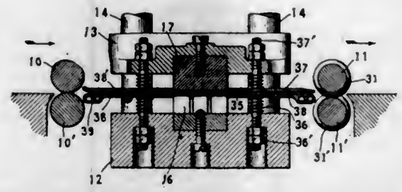
In a fire tube boiler, an outer shell, a combustion chamber in the lower portion of said shell, a horizontal tube sheet above said combustion chamber; a set of relatively small upright fire tubes connected into said tube sheet and extending through a water chamber to an upper tube sheet and affording communication between said combustion chamber and an upper gas chamber formed above said upper tube sheet, a second set of relatively large fire tubes having a combined cross sectional area in excess of that of said relatively small fire tubes and extending from said upper chamber to a third tube sheet located below the level of the first mentioned tube sheet and surrounding the said combustion chamber, a smoke box below said lowermost tube sheet, an inner upright shell surrounding said set of relatively small fire tubes and said combustion chamber and having upper and lower water passages therethrough to afford communication between the water space inclosed by said shell and the water space surrounding said shell, said upper gas chamber being slightly spaced from the top of the boiler to provide a relatively thin steam space, a plurality of steam conducting tubes extending from the upper tube sheet to said steam space communicating with said water chamber, a normally closed outlet from said upper gas chamber and an outlet for said lower smoke chamber communicating with said upper gas outlet and a gas discharge flue.

1,781,532. BOILER AND WATER HEATER. LOUIS D. SUMMERS, Decatur, Ill., assignor, by mesne assignments, to Leader Iron Works, Inc., Decatur, Ill., a corporation of Delaware. Filed Sept. 22, 1927. Serial No. 221,369. 1 Claim. (Cl. 122—182.)



A boiler and water heater comprising in cooperative combination an upright drum forming a combustion chamber, a second upright drum encompassing the first and spaced therefrom forming a relatively thin water leg about the combustion chamber drum and a relatively thin water space above the combustion chamber drum; an outer wall connected with and partially encompassing said second drum; said outer wall provided with an upper and a lower outlet on the side thereof for the hot products of combustion and a house flue connected with said outlets; spaced header plates secured to said second drum and encompassed by said outer wall so as to form an upper gas chamber above the upper plate and a lower gas chamber below the lower plate, said upper gas chamber being in communication with said combustion chamber and a water chamber between the two plates; a plurality of fire tubes connecting said plates establishing communication between said upper and said lower gas chambers; said second drum provided with an upper and a lower opening establishing water communication between said water leg and said water chamber; means for admitting cold water into said water chamber and means for releasing water from the top of said second drum over said first drum.

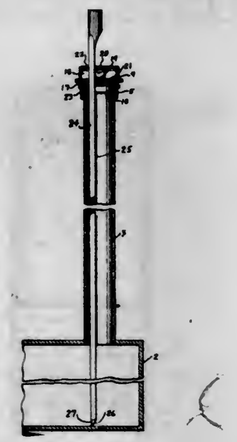
1,781,533. MACHINE FOR SLITTING SHEETS TO BE STRETCHED. ROBERT S. ALLYN, Brooklyn, N. Y., assignor to Robert S. Allyn, as trustee for the benefit of Dwight G. Clark, Coosada Station, Ala.; Lida C. Clark, Lakeville, Conn.; Emil H. Fickinger, Great Neck, and Robert S. Allyn, New York, N. Y. Filed Apr. 26, 1929. Serial No. 358,201. 10 Claims. (Cl. 164—6.5.)



1. Slitting mechanism comprising feed rolls, punch and die members, a spring pressed stripper plate having openings for the die members, a guide member hinged at one end to said plate and a stop holding the other end of said guide member adjacent said feed rolls.

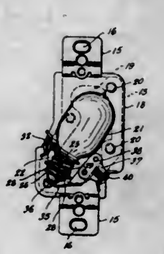
1,781,534. ANTIFRAUD MEANS FOR STORAGE TANKS. CHARLES F. BERTSCHINGER, Jamaica, N. Y., assignor of three-fourths to Tide Water Oil Company, Bayonne, N. J., a Corporation of New Jersey. Filed Aug. 26, 1927. Serial No. 215,552. 5 Claims. (Cl. 220—86.)

1. Anti-fraud means for a storage tank, comprising an enclosure guarding the entrance to the tank and containing a ball chamber with a ball therein, the upper and lower walls of said chamber having openings one above the other forming part of a through way for the insertion of a gauge rod into the interior of the tank, the lower o



said openings presenting a circular seat in which the ball normally rests but from which it can be pushed aside by the gauge rod, and the upper of said openings being of odd shape and comparatively small area.

1,781,535. PILOT-LIGHT RECEPTACLE. TONJES A. BOTH, Stratford, Conn., assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Oct. 3, 1925. Serial No. 60,317. 9 Claims. (Cl. 177—311.)

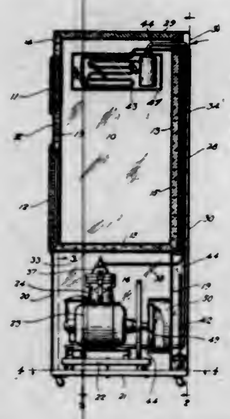


8. In a device of the character described, an insulating support, a lamp support mounted on the insulating support comprising an integral member having a pair of spaced substantially parallel arms having aligned openings therethrough to receive the threaded shell contact of a lamp, one of said arms having two portions thereof offset laterally from each other an amount substantially equal to the space between two threads on said shell so as to engage in the grooves on the opposite sides of a thread, and the connection between the portions having a notch for passage of said thread.

1,781,536. REFRIGERATION. JOHN JACOB BROWN, New York, N. Y., assignor, by mesne assignments, to Servel, Inc., New York, N. Y., a Corporation of Delaware. Filed Dec. 22, 1926. Serial No. 156,462. 1 Claim. (Cl. 62—116.)

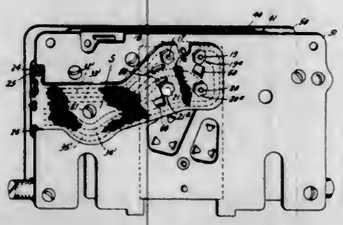
Refrigerating apparatus comprising a cabinet including a food space, a machine compartment and a condenser space, said machine compartment being surrounded by walls including a rear wall between the machine compart-

ment and the condenser space, said rear wall having an air passage therethrough near one end of the machine compartment and the bottom wall of the machine compartment having apertures therethrough near the other end of the compartment, the walls of the machine compartment including the front wall being otherwise unapertured, a condenser in said condenser space, a compressor



in said machine, compartment adjacent the apertures in said bottom wall, a motor in said machine compartment adjacent the air passage in said rear wall and a single fan mounted on the shaft of said motor in said air passage and arranged to cause flow of air downwardly past said condenser in said condenser space, through said air passage, past said motor and compressor and through said apertures.

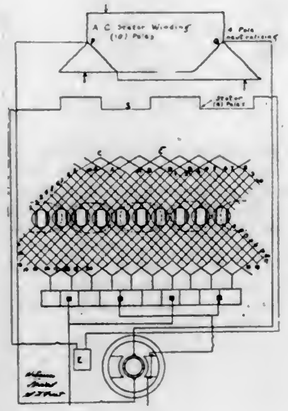
1,781,537. ELECTRICAL TOY. LOUIS CARUSO, Irvington, N. J., assignor to The Lionel Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 16, 1929. Serial No. 347,557. 6 Claims. (Cl. 105—49.)



1. A motor for toy locomotives and the like, comprising a frame carrying the field and armature of the motor, a terminal assembly for the armature and field windings, a reversing switch having a terminal assembly, and a unitary conductor strip having a plurality of conductors permanently carried thereby and spaced at their ends to fit the terminal assemblies and connect predetermined terminals so that operation of the reversing switch may reverse the motor.

1,781,538. DYNAMO-ELECTRIC MACHINE. FREDERICK CREEDY, London, England. Filed Nov. 9, 1925, Serial No. 67,772, and in Great Britain Nov. 21, 1924. 16 Claims. (Cl. 171—123.)

1. A dynamo-electric machine comprising a stator, a winding on the stator, a rotor, a winding on the rotor in two parts, a commutator, one part of said rotor winding connected thereto, brushes on the commutator, the winding on the stator producing a field of one pole number energized from an alternating current supply and a field of a second pole number energized from a second supply, the said winding producing ampere turns substantially equal and opposite to those produced in the rotor by the current flowing through the commutator, said pole num-



bers differing by more than three, the stator field of the second pole number inducing E. M. F.'s across the brushes on the commutator, and the other part of the winding on the rotor constituted by sets of conductors spaced apart by an even number of pole pitches of the second field and connected in series in a closed circuit.

1,781,539. REGULATING VALVE FOR GREASE LUBRICATING SYSTEMS. JOHN F. CULP, Philadelphia, Pa., assignor to Ideal Lubricator Company, Philadelphia, Pa., a Corporation of Delaware. Filed Jan. 25, 1928. Serial No. 249,245. 1 Claim. (Cl. 251—77.)



A regulating valve for grease systems comprising a casing provided with an inlet and an outlet arranged substantially at right angles, a closure slidably mounted in said casing and having a portion thereof forming leakproof contact with said casing and another portion having a helical groove disposed between said inlet and said outlet, and means extending through the leakproof protected end of said casing for moving said closure to open and closed position and to change the position of said groove with respect to said inlet.

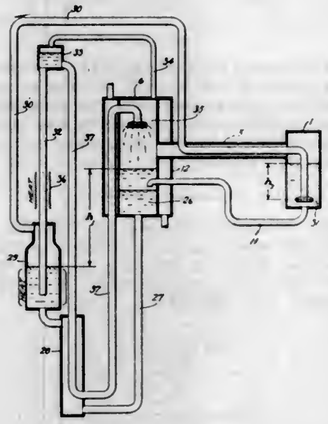
1,781,540. CAR SEAL. IVAN E. DAY, Edgerton, Ohio. Filed May 17, 1929. Serial No. 363,848. 4 Claims. (Cl. 292—322.)

1. A car seal formed of a single metallic sheet shaped with a main portion having side seam flanges and oppositely projecting lock members at its ends, and a shackle strip contiguous with one of its ends, one of said lock members having a projection formed therein, and the other lock member having divergent fingers at its free end and a series of projecting latches between its ends, the free end of said shackle strip having a slot adjacent its extreme end, and a series of projecting latches back of said slot inclined therefrom, and a deflector back of



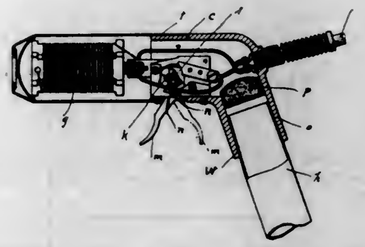
said latches upon the side of the strip opposite thereto, said lock members being folded one over the other and inclosed by said main portion which is folded and its flanges clinched together forming a head for the seal, the free end of said shackle strip, when inserted in said head, having locking engagement with one of said members, and the deflector thereof being wedged between the other member and the adjacent wall of said head.

1,781,541. REFRIGERATION. ALBERT EINSTEIN, Berlin, and LEO SZILARD, Berlin-Wilmersdorf, Germany, assignors to Electrolux Servel Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 16, 1927, Serial No. 240,566, and in Germany Dec. 16, 1926. 5 Claims. (Cl. 62—119.5.)



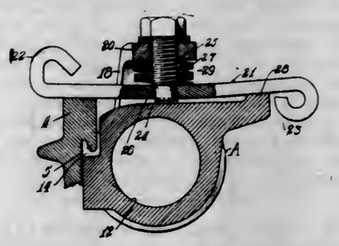
1. Refrigerating apparatus comprising a generator, a condenser arranged at a higher level than the generator, an evaporator, a container arranged at a higher level than the condenser, said generator containing an inert gas dissolved in absorption liquid and adapted to expel the inert gas from solution, a conduit for conducting the inert gas from the generator to the evaporator, a conduit for conducting liquid refrigerant from the condenser to the evaporator, a conduit for conducting mixed vapor of refrigerant and inert gas from the evaporator to the condenser in heat exchange relation with inert gas passing into the evaporator, a conduit for conducting rich absorption liquid from the condenser to the generator by gravity, a conduit for conducting weak absorption liquid from said container to said condenser by gravity, a conduit extending upwardly from said generator to said container and means to heat the last-mentioned conduit to lift liquid from the generator to the container.

1,781,542. BLOWING NOZZLE FOR SUCTION CLEANERS. AXEL OLOF ENGBERG and ANDERS ERIKSSON-JONS, Stockholm, Sweden, assignors to Inventia Patent-Verwertungs-Gesellschaft, Schaffhausen, Switzerland, a Corporation of Switzerland. Filed Oct. 24, 1928. Serial No. 314,574, and in Sweden May 19, 1928. 4 Claims. (Cl. 219—39.)



1. In a blowing nozzle for suction cleaners, a body portion containing an electrical heating resistance and a switch therefor, and a connection piece angularly disposed to said body portion for detachably receiving a hose, said connection piece and the adjacent hose portion forming a handle for said body portion.

1,781,543. HOSE COUPLER. EGBERT H. GOLD, Evanston, and THOMAS H. MANCHESTER and EDWARD A. RUSSELL, Chicago, Ill.; said Manchester and said Russell assignors to Vapor Car Heating Company, Inc., Chicago, Ill., a Corporation of New York; Margaret Jayne Gold and Biscayne Trust Company executors of said Egbert H. Gold, deceased. Filed Aug. 19, 1927. Serial No. 214,092. 6 Claims. (Cl. 285—68.)

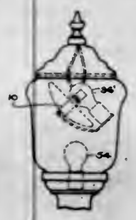


1. In combination with a hose coupler comprising a head and a projecting arm adapted to engage respectively with the arm and head of a mating coupler, a locking device supported on the head and adapted to yieldingly engage the arm of a mating coupler, said device comprising a spring locking bar, a separate spring member of greater flexibility than the locking bar and positioned to be flexed by the locking bar when moved into engagement with the arm, and means for limiting this flexure of the spring member.

1,781,544. LIGHTING UNIT. HERBERT J. GRAHAM, Philadelphia, Pa., assignor to Electric Service Supplies Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 31, 1929. Serial No. 336,382. 18 Claims. (Cl. 240—25.)

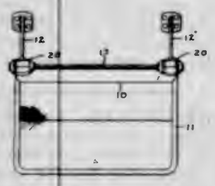
1. In a lighting unit including a glass globe, an adapter for facilitating the mounting therein of a flood-lighting

assembly, said adapter comprising a contractible member arranged to be quick-detachably secured to the upper



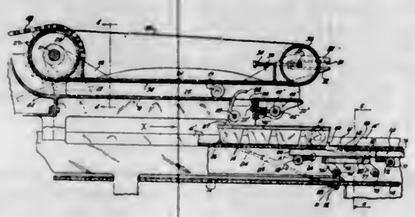
edge of said globe, and means carried by said member and constituting a lateral support for said flood-lighting assembly.

1,781,545. GLARE SHIELD. PHILIP GROENENSTEIN, Cleveland, Ohio. Filed Dec. 30, 1926. Serial No. 157,896. 1 Claim. (Cl. 296—97.)



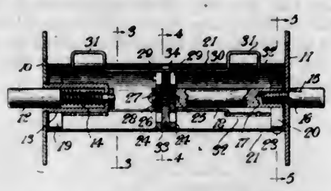
A glare shield having in combination, a pair of independent supporting arms, each arm having a passageway extending therethrough, a shaft extending between and through each of said arms and projecting beyond the end of each arm, an indexing couple between the shaft and each arm, said couple having one member rigid with the associated arm, and having the other member rigid with the shaft, a spring mounted in each passageway and operating upon the members of the couple to hold them in engagement with each other, a visor, a frame therefor, a frame extension rigidly mounted upon the shaft and means outside the frame and engaging the shaft for holding all of said members in assembled relationship.

1,781,546. DOUGH-MOLDING MACHINE. LAURENCE S. HARBER, Saginaw, Mich., assignor, by mesne assignments, to Baker Perkins Company, Inc., Saginaw, Mich., a Corporation of New York. Filed Apr. 9, 1925. Serial No. 21,763. 3 Claims. (Cl. 107—9.)



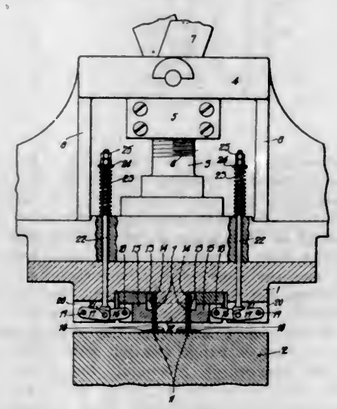
1. In a dough molding machine of the kind described, in combination a stationary table forming the bottom of a molding channel, a pressure belt forming the top of the latter and traveling from its inlet to its outlet, an opening extending near the latter across the said table, a shaft rotatably mounted underneath the latter in a stationary support, a trip fixed to said shaft, extending upwards through the said opening for its length and closing it, when pressed down by a loaf passing along the said molding channel, a pan conveyor located beneath the said table and carrying the pans to be filled underneath the discharge end thereof, a pawl adapted to arrest the pans and to keep them stationary on the said conveyor, a lever and link mechanism connected to said shaft and to said pawl, keeping by its weight the said trip and the said pawl in their upright position, and adapted when its weight is overcome by the pressure of a loaf passing over said trip and the latter is thereby lowered, to lower said panel simultaneously therewith, and thus to cause by the release of said pawl a forward movement of the pans on said pan conveyor and a turn buckle provided in a link of said lever and link mechanism for adjusting the distance at which the top of the said pawl extends above the bottom of the pans.

1,781,547. ADJUSTABLE-TENSION PAPER HOLDER. JOSEPH A. HOEGGER, Jersey City, N. J. Filed Feb. 16, 1928. Serial No. 254,672. 6 Claims. (Cl. 242—72.)



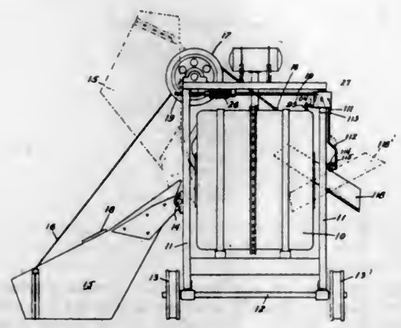
1. A structure of the kind described comprising a spool, shoes at axially spaced intervals movable in and out beyond the face of the spool body and extending through guide slots in said body, a yielding backing for the shoes, and means for adjusting the shoes in and out and thereby regulating their tension.

1,781,548. WELDING CLAMPING DEVICE. LE ROY H. HOFFER, Brooklyn, N. Y., assignor to Metropolitan Engineering Company, Brooklyn, N. Y., a Corporation of New York. Filed Sept. 26, 1929. Serial No. 395,271. 10 Claims. (Cl. 219—17.)



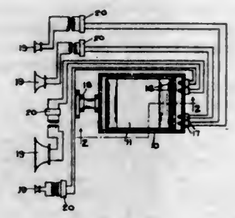
1. In a welding apparatus, a pair of electrodes, work clamping means for said electrodes and means for automatically releasing said clamping means upon the separation of said electrodes to a determined distance.

1,781,549. CONTROL MECHANISM FOR CONCRETE-MIXING APPARATUS. OLIVER JOHNSON, Hollywood, Calif., and RAYMOND G. SANDERS, Spokane, Wash. Filed Mar. 11, 1929. Serial No. 345,949. 7 Claims. (Cl. 83—73.)



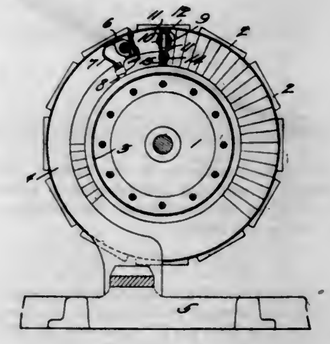
4. In combination with a mixing drum and with a charging hopper and a discharge chute therefor, a control mechanism associated therewith comprising a casing and a control member slidably mounted therein, a stop carried by the casing, means tending to move said control member toward and against said stop, holding means extending from said chute and adapted to be locked by said control member, means for advancing said control member away from said stop upon each revolution of the drum, and means for releasing said holding means from the control member after the drum has made a predetermined number of revolutions.

1,781,550. METHOD OF AND APPARATUS FOR RECORDING AND REPRODUCING SOUNDS. BERNARD KWARTIN, Philadelphia, Pa. Filed Dec. 2, 1927. Serial No. 237,822. 2 Claims. (Cl. 179—100.3.)



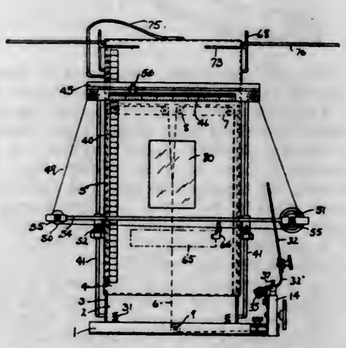
1. An apparatus for photographically producing upon a photographic film a plurality of individual records of sounds of distinctly different pitch characteristics, said apparatus comprising a casing, means for moving the film through the casing, a light enclosing chamber arranged to one side of and extending transversely of said film, said chamber being provided with a plurality of transversely spaced slots, a plurality of light sources within said chamber respectively located behind said slots for projecting light rays therethrough, said light sources being independently responsive to different electrical variations corresponding to sound vibrations of different pitch for recording the different sounds upon the film, and a plurality of sound responsive devices having diaphragms of varying mass and size each selectively responsive to sounds of different pitch for producing said different electrical variations.

1,781,551. COMMUTATOR ACCESSORY. WILLIAM MATAYA, Seattle, Wash. Filed Feb. 15, 1928. Serial No. 254,547. 2 Claims. (Cl. 171—321.)



1. In combination with a commutator and a brush holding casting cooperating therewith, of a cleaning element to cooperate with the commutator and including a shaft rotatably mounted in said casting, a holder adjustable diametrically of the shaft, and a series of bristle elements secured in the holder.

1,781,552. COPYHOLDER ATTACHMENT FOR TYPEWRITERS. LOUIS T. MATHEWS, Houston, Tex. Filed Jan. 11, 1927, Serial No. 160,349. Renewed July 11, 1930. 14 Claims. (Cl. 120—29.)

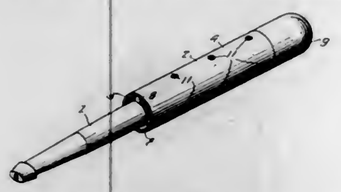


1. In a typewriter copyholder, a base, an upright frame thereon, a copyholding plate slidable thereon, a flexible line secured to said plate and arranged to raise said plate on said frame a spool to which said line is attached for winding, a hand lever operatively connected with said spool, and a carriage-engaging lever extending upwardly above said hand lever and adapted to engage and move said hand lever in the manner described.

1,781,553. SMOKER'S ARTICLE. JOHN S. MCCLERS, Baltimore, Md. Filed Jan. 5, 1929. Serial No. 330,563. 3 Claims. (Cl. 131—51.)

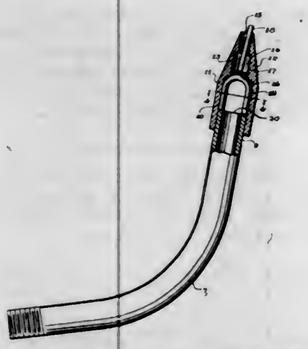
1. A holder for cigars and cigarettes comprising a hollow mouthpiece, means at one end of said mouthpiece

adapted to receive one end of the combustible article and to maintain said article in operative position with respect to the holder and a heat-conducting element pro-



jecting into close proximity to the surface of the combustible article at said end and adapted to create a chilling effect tending to extinguish the burning material before it reaches the holder.

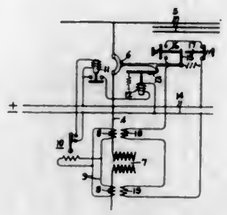
1,781,554. LUBRICATOR. ARTHUR G. NORTON, Holley, N. Y., assignor to Alert Products, Inc., Rochester, N. Y., a Corporation of New York. Filed Oct. 1, 1928. Serial No. 309,543. 3 Claims. (Cl. 221—47.)



1. A valve for lubricators comprising a nozzle having a tapered end provided with three bores of three different diameters, the smallest being at the discharge of the nozzle and the largest being at the opposite end, and two internal shoulders being provided, one between the intermediate bore and the smaller bore and the other between the intermediate bore and the larger bore, a conductor fitted in the larger bore and having its end spaced from the adjacent shoulder, a valve member freely movable in the intermediate bore to cooperate with the shoulder between the intermediate bore and the smaller bore to close the passage through the nozzle, a valve operator projecting from the valve through and from the smaller bore beyond the tapered end so that the valve member may be moved away from its seat, and a stop for the valve member held between the conductor and the shoulder between the intermediate and the larger bore, said stop extending across the passage through the nozzle to engage the valve member to confine the latter to the intermediate bore, space being provided on opposite sides of the valve member to permit a flow into the conductor from the smaller bore.

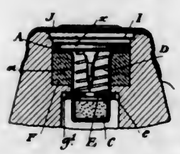
1,781,555. PROTECTIVE ARRANGEMENT. HERBERT STANLEY PETCH, London, and JOHN GOLE WELLINGS, Dunchurch, England, assignors to General Electric Company, a Corporation of New York. Filed May 1, 1928, Serial No. 274,313, and in Great Britain May 14, 1927. 6 Claims. (Cl. 175—294.)

1. In combination with an alternating current circuit and a switch adapted to be operated to control the circuit, fault responsive protective devices connected to be energized from said circuit for controlling said switch only including current transformers in series relation with said circuit and a relay connected to be energized from said current transformers and means for reducing the sen-



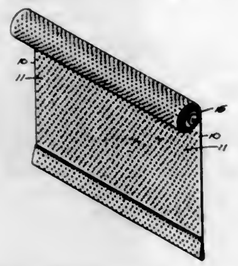
sitivity of one of the protective devices during the switch closing or opening arranged to impress an auxiliary electromotive force on a winding of the device substantially to saturate the magnetic circuit thereof during the switching operation.

1,781,556. PERCUSSION FUSE FOR ARTILLERY AND AIRCRAFT PROJECTILES. LÉON EMILE RÉMONDY, Paris, France. Filed Feb. 13, 1930, Serial No. 428,189, and in France Apr. 29, 1929. 3 Claims. (Cl. 102—39.)



1. A supersensitive percussion fuse comprising a movable carriage (A) containing the elements of the firing mechanism (striker B and percussion cap C) with a spacing member (spring D) interposed between these members one of which, the front element (B) is virtually integral with a casing (A) of the carriage, which casing is pierced with apertures (*a*) through which the latter is guided on the lugs of a washer (E) bearing under the action of the spacing spring (D) on a shoulder (G^1) on the fuse body (G), the fuse being characterized by the feature that the rigid striker forming the front element of the mechanism comprises a wide head (*b*) bearing on a corresponding flange (a^1) on the casing of the carriage, which flange is crimped, hooked or secured on the said head, the carriage bearing by means of the head of the striker covered or lined by the flange on the carriage on a sleeve F made of a compressible material (cork, felt or other suitable material having a very small initial compression) and the carriage thus constructed and supported being set back with respect to the mouth of the fuse body in order to form between this mouth and the outer face of the head on the percussion system of a space (*x*), the mouth being however closed by a cap (H) or a diaphragm (I) of small mass preventing the direct action of the air upon the said percussion system, while being sufficiently weak to be capable of breaking upon impact against an obstacle even against one offering little resistance, the said cap also permitting a preliminary settling of loose materials such as grass, leaves or humus, to be obtained upon impact with a view to driving the carriage in more strongly in order to operate the fuse.

1,781,557. WINDOW SHADE. EDWARD REUKAUF, Jr., Philadelphia, Pa., assignor to Carey-McFall Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 22, 1929. Serial No. 372,917. 9 Claims. (Cl. 156—10.)



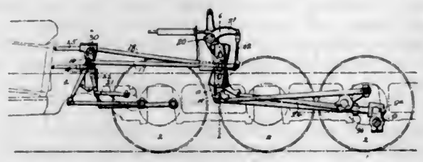
4. A window shade composed of a fibrous base coated with a non-fibrous substance and provided with a plurality of relatively small perforations distributed over its area..

1,781,558. PANEL CONSTRUCTION FOR SIGNBOARDS. JOHN P. SPECK, Tiffin, Ohio. Filed Nov. 17, 1927. Serial No. 233,998. 2 Claims. (Cl. 40—125.)



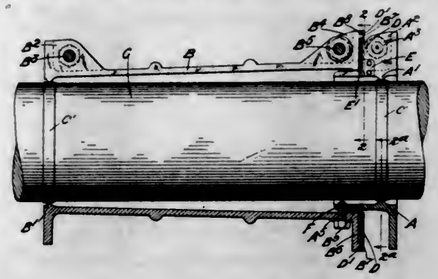
1. A panel for sign boards formed of sheet metal, reinforcing members disposed at opposite margins of the panel upon the rear face thereof, the metal of the panel being extended entirely around said reinforcing members, the sheet metal opposite one of said reinforcing members and on the exterior face thereof being formed with a V-shaped tongue and the metal on the outer face of the other reinforcing element being formed to provide a corresponding V-shaped groove, said tongue and groove acting to center the panels with relation to each other so that the outer faces of the panels are exactly flush, the reinforcing elements and the sheet metal surrounding the same being apertured for the passage of bolts extending parallel to the face of the panel.

1,781,559. LOCOMOTIVE VALVE GEAR. VICTOR R. STEWART, Glenside, Pa. Filed Nov. 30, 1926. Serial No. 151,732. 5 Claims. (Cl. 121—116.)



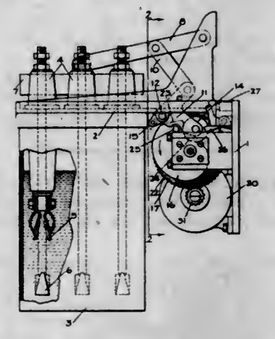
4. The combination in a valve mechanism for a three-cylinder locomotive of three valves; a rod attached to each valve; three reversing links two of said links being arranged close together on one side of the locomotive; a single link on the opposite side thereof, said links being in transverse alignment; an axle having wheels; a double crank on one end of said axle; pins on the double crank, said pins being connected to the two reversing links on that side of the locomotive and the crank at the opposite end of the axle; connections between the said crank and the single link on that side of the locomotive; rods connecting the links with the valve rods of their respective cylinders; a transverse reversing shaft having three arms; connections between the arms and their respective rods; three cross-heads; and levers connecting said rods with their respective cross-heads.

1,781,560. TORSION METER. LEONARD GODFREY PINNEY THRING, Cambridge, England. Filed Dec. 11, 1928, Serial No. 325,180, and in Great Britain Dec. 17, 1927. 11 Claims. (Cl. 265—25.)



3. A torsion meter including in combination two tubular members parts of which lie adjacent, said adjacent parts being apertured, means for fixing these members respectively on a shaft at points spaced apart along the shaft whereby torsion in the shaft will produce proportional relative displacement of said members, a series of radial wire suspension rods extending between and passing through the apertures in the adjacent parts of the two members, a head member on one end of each rod bearing against one member, and a nut member engaging the other end of each rod and bearing on the other member.

1,781,561. ELECTRIC-SWITCH-OPERATING MECHANISM. LUDWIG S. WALLE, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 14, 1928. Serial No. 306,073. 5 Claims. (Cl. 175—375.)

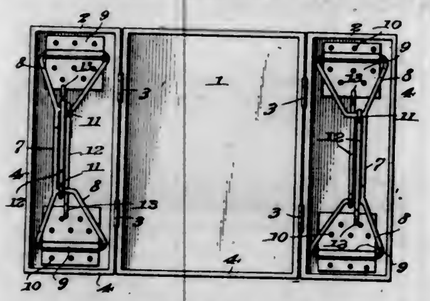


5. Actuating mechanism for a power switch comprising a cam, a spring opposing the forward rotation of the cam, a member operatively connected with the switch having one portion engaging one part of the cam to close the switch in response to forward rotation of the cam and having another portion arranged to engage another part of the cam to open the switch in response to a predetermined backward rotation of the cam, an electric motor for rotating the cam to close the switch, means for decreasing the torque of the motor to cause it to substantially balance the force of said spring when the switch is closed, and means for reversing the motor to positively open the switch.

1,781,562. PORTABLE FOLDING TABLE. THOMAS ISAAC WALLIS, Evansville, Ind. Filed July 29, 1929. Serial No. 381,841. 1 Claim. (Cl. 45—116.)

In a portable folding table, the combination with a center top section and end top sections hinged to said cen-

ter section and foldable against the same side thereof, of a pair of foldable legs hinged to, and bodily carried by, each end section, a brace hinged to each leg, and a



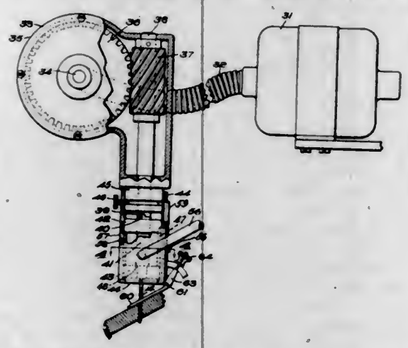
releasable tie rod engaged with all of the top sections and with all of the aforesaid braces to lock the top sections and the legs in extended position.

1,781,563. LOCOMOTIVE BELL RINGER. GUSTAVE WALTER, Jersey City, N. J. Filed Jan. 17, 1930. Serial No. 421,565. 4 Claims. (Cl. 121—2.)



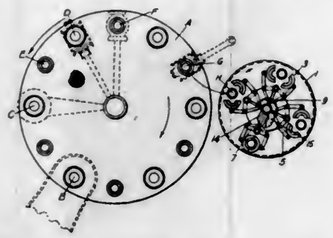
1. An improved locomotive bell ringer comprising a cylinder having inlet and exhaust ports at one end portion and an air outlet at the other end portion, a plunger connected to the bell and fitted to reciprocate in said cylinder, a normally closed valve for controlling said inlet, and a valve rod movable with said piston and having a reduced part for controlling the opening and closing of the exhaust port and further having an end portion for acting to open said valve only after the exhaust port is closed.

1,781,564. CUTTING DEVICE AND TOOL THEREFOR. ERNEST J. BEATTIE, Fall River, Mass. Filed Apr. 8, 1929. Serial No. 353,322. 16 Claims. (Cl. 128—317.)



1. A portable plaster cast cutting device comprising a carrier; a guide foot carried thereby; a tool holder mounted in said carrier; a remote source of power; a driving connection between the latter and said carrier, constructed to permit free movement of the latter relative to the former; and a side-cutting, spiral-toothed cutting tool mounted on and to be rotated by said tool holder.

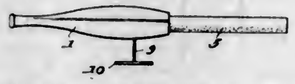
1,781,565. METHOD AND APPARATUS FOR MAKING ARTICLES OF GLASSWARE. ROBERT J. BEATTY, Columbus, Ohio, assignor to The Federal Glass Company, Columbus, Ohio, a Corporation of Ohio. Filed Mar. 13, 1928. Serial No. 261,354. 6 Claims. (Cl. 89—9.)



1. The method of producing glassware which comprises pressing a blank in a one-piece mold, blowing the pressed blank in another one-piece mold to a shape that will still allow its removal therefrom, and then blowing the shaped blank in a mold other than a one-piece mold to a shape which would preclude removal from a one-piece mold.

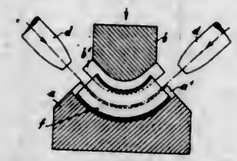
3. Apparatus for producing articles of glassware comprising a primary shaping table having both individual press and blow molds mounted thereon, said blow mold being of one-piece construction, and a secondary shaping table having multi-piece blow molds mounted thereon disposed adjacent said first-named shaping table and operating in timed relation with said primary shaping table.

1,781,566. CIGARETTE HOLDER. JOHANN WILHELM BLESCH, Evansville, Ind. Filed Feb. 1, 1929. Serial No. 336,894. 2 Claims. (Cl. 131—10.)



1. A cigarette holder provided with an elongated chamber and a smoke duct communicating therewith and also having a longitudinally disposed slot communicating with the chamber, said chamber being adapted to receive the end of a cigarette, a pusher provided with a smoke conduit and slidably mounted in said chamber, and a combined rest and pusher-manipulator having a shank passing through said slot and engaged with the pusher and provided with a single enlarged thin piece disposed externally of the holder and lying in a plane crosswise of the length of the shank and adapted to sustain the cigarette holder in general horizontal position entirely clear of the support on which said cigarette holder is placed when not in use.

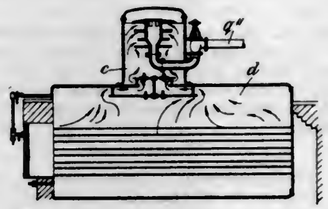
1,781,567. APPARATUS FOR PRODUCING BENT PIPES OF CORRECT PRESCRIBED LENGTHS. RUDOLF HIERONYMUS BÖHLING, Hamburg, Germany, assignor to the Firm of Rohrbogenwerk Gesellschaft mit beschrankter Haftung, Hamburg, Germany. Filed Apr. 6, 1929, Serial No. 353,103, and in Germany June 14, 1928. 4 Claims. (Cl. 153—32.)



1. An apparatus for giving bent pipes, elbows, bends, return bends or the like prescribed lengths, comprising a

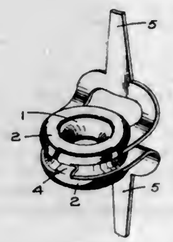
two-part mold and two mandrels, all four parts embracing a hollow space corresponding to the shape of the bend to be produced, the cavity of one die corresponding to the mating half containing the outer curvature and the cavity of the other die corresponding to the mating half containing the inner curvature, means to move the dies upon one another in a direction parallel to the central plane of the bend and means to move the mandrels centrally to the open ends of the mold.

1,781,568. STEAM-DRYING OR WATER-SEPARATING APPARATUS FOR STEAM-POWER PLANTS. FRIEDRICH BROEKER, Furstenwalde, Germany. Filed May 24, 1928, Serial No. 280,364, and in Great Britain Apr. 12, 1928. 2 Claims. (Cl. 122—492.)



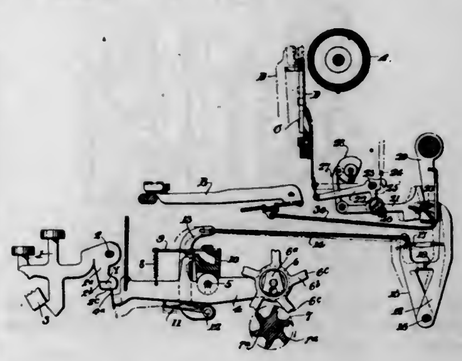
2. In steam drying and water separating apparatus, a steam generator having a steam dome, a manhole beneath said dome, two divided hinged plates, one located above and the other below said manhole, a ring spacing each of said divided plates, steam apertures in said rings, means for fixing said plates rigidly in their extended position and spring controlled disk valves carried by said plates constituting safety by-passes for the steam if the apertures in said spacing rings become choked.

1,781,569. LINE-SUPPORTING RING FOR FISHING RODS. CHARLES ARTHUR COOK, Redditch, England, assignor to Henry Wilkes & Company, Limited. Filed Feb. 19, 1930, Serial No. 429,651, and in Great Britain Mar. 9, 1929. 5 Claims. (Cl. 43—44.)



1. Line-supporting means for fishing rods, comprising a ring of hard non-metallic material, a sheet metal shield for protecting the edges of the ring, and comprising two ring-like parts lying one upon each side of the non-metallic ring and embracing the edges thereof and an attachment portion on the protecting member for its attachment to the rod.

1,781,570. TYPEWRITING MACHINE. GUSTAVE O. DEGENER, New York, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 12, 1927. Serial No. 239,491. 6 Claims. (Cl. 197—17.)



1. In a typewriting machine, a ribbon vibrator, an actuator therefor, a power operated lever, a universal bar actuated thereby, and connections between the universal bar and the actuator which include two levers and means yieldingly connecting the same.

1,781,571. TYPEWRITING MACHINE. GUSTAVE O. DEGENER, New York, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 12, 1927. Serial No. 239,492. 7 Claims. (Cl. 197—17.)

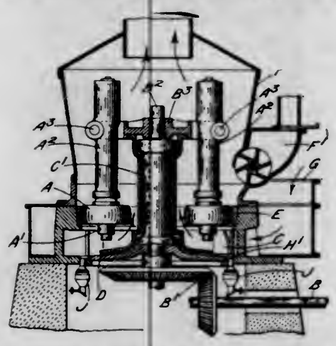


1. In a back spacing operating mechanism for typewriting machines, the combination with a source of power, a power lever adapted to be operatively connected to the back space devices and adapted to be brought into operative relation to the source of power, a key lever having a recess in its under surface, and an extension on the front end of the power lever normally engaging the key lever adjacent the recess and held by said engagement out of operative relation to the source of power, said extension passing into said recess when the key is depressed, thereby permitting the power lever to assume operative relation to the power means.

1,781,572. APPARATUS FOR PULVERIZING COAL AND LIKE SUBSTANCES. WALTER JAMES DRUMMOND, Newcastle-upon-Tyne, England, assignor of one-half to Ashington Coal Company Limited, Newcastle-upon-Tyne, England, a Company of Great Britain. Filed Jan. 4, 1930, Serial No. 418,595, and in Great Britain Apr. 24, 1929. 5 Claims. (Cl. 83—45.)

1. In apparatus for pulverizing coal and like substances the combination of a grinding chamber having an inlet for unground material and an outlet through which the fine ground particles are discharged by means of an air current, receptacles communicating with the grinding cham-

ber within which receptacles the heavier particles tend to accumulate, and means for admitting a current of air



into each receptacle and thus driving back into the grinding chamber any lighter particles which have been carried into the receptacles.

1,781,573. CLOTHESLINE FASTENER. JOHN B. ERRETT, Connellsville, Pa. Filed Nov. 30, 1929. Serial No. 410,789. 7 Claims. (Cl. 24—129.)



1. A clothes line fastener comprising a body provided at one end with a straight, tapered line-engaging projection, and provided on one side with a line-engaging projection.

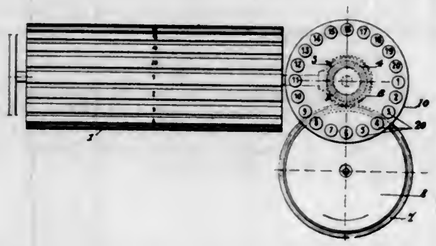
1,781,574. PROTECTED ARMORED CABLE OR CONDUIT. OTTO A. FREDERICKSON, Ben Avon, Pa., assignor to National Electric Products Corporation, New York, N. Y., a Corporation of Delaware. Filed Oct. 18, 1928. Serial No. 313,204. 6 Claims. (Cl. 247—39.)



1. A flexible metallic armored cable for electrical wiring uses provided with a wrapping of transversely crumpled paper therearound disposed directly upon the flexible metallic armored conduit, an outer protecting covering disposed directly upon and about said transversely crumpled paper wrapping having impregnating compounds therein which penetrate the interstices of the covering and outer pores and outer surfaces of the transversely crumpled paper wrapping but which are prevented from access to the flexible metallic armor by said transversely crumpled paper wrapping so that the protecting covering may be removed leaving a clean surface upon the armor.

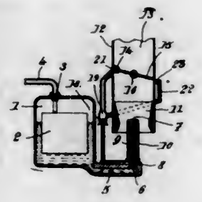
1,781,575. WEIGHING APPARATUS. LUCIEN GANDRIAUT, Nancy, France. Filed May 15, 1928, Serial No. 277,856, and in France May 31, 1927. 5 Claims. (Cl. 40—33.)

1. In a weighing apparatus of the type described comprising a casing having a sight opening, a rotatable carrier having a plurality of scales thereon each of which is adapted to be brought individualy to a position opposite said sight opening, an annular member rotatable upon its axis and longitudinally movable thereon, said member being connected for rotation with said carrier, said member having a recess therein, tappets located opposite said annular member for moving said member longitudinally, spring means urging said annular member towards said tappets and driving means for rotating said annular



member operative when said member has been moved longitudinally by operating one of said tappets against said spring means thereby rotating said carrier, said driving means being stopped when said operated tappet encounters said recess allowing a return longitudinal movement of said member.

1,781,576. CARBURETOR. MAURICE GOUDARD, Neuilly, France, assignor to Société Anonyme Solex, Neuilly, France, a Society of France. Filed July 1, 1929, Serial No. 375,021, and in Belgium Aug. 1, 1928. 3 Claims. (Cl. 261—41.)

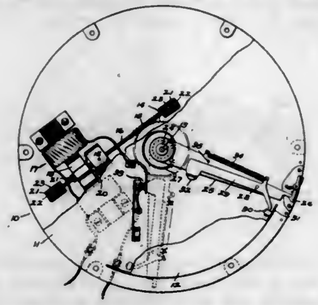


1. A carburetor comprising a main mixing chamber having a cylindrical wall portion, a main nozzle positioned to feed fuel to said main mixing chamber, a first auxiliary mixing chamber having a terminal orifice in the cylindrical portion of the main mixing chamber, a second auxiliary mixing chamber having one extremity communicating with said first auxiliary mixing chamber and having a terminal orifice in the cylindrical portion of the main mixing chamber at a point upstreamward with relation to the terminal orifice of the first auxiliary mixing chamber, an auxiliary nozzle positioned to supply fuel to said first and second auxiliary mixing chambers, means for supplying fuel to said main and auxiliary nozzles, and an elliptical valve positioned to simultaneously obstruct the main mixing chamber and the terminal orifice of the first auxiliary mixing chamber, said valve, when in closed position, sloping so that that portion thereof obstructing the terminal orifice of the first auxiliary mixing chamber lies downstreamward with relation to the rest of the valve.

1,781,577. SYNCHRONOUS-MOTOR-DRIVEN PHONOGRAPH. CHESTER I. HALL, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed Nov. 28, 1928. Serial No. 322,497. 4 Claims. (Cl. 172—275.)

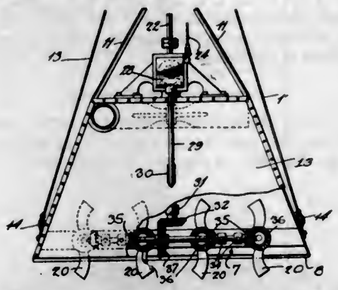
2. In a phonograph drive a turn table shaft provided with a gear, a second shaft carrying a worm meshing with said gear, a flywheel on the second mentioned shaft, a synchronous motor for driving said shaft, and a driving

connection permitting relative movement between said synchronous motor and said second shaft, said connec-



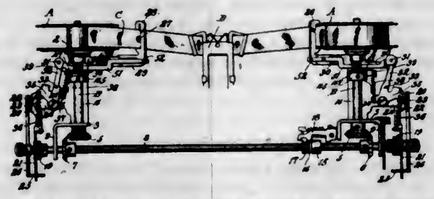
tion and flywheel serving to prevent hunting pulsations of said synchronous motor from being transmitted through said gears.

1,781,578. SNOWPLOW. JAY BENJAMIN HALL, Eugene, Oreg. Filed May 17, 1929. Serial No. 363,792. 10 Claims. (Cl. 37—43.)



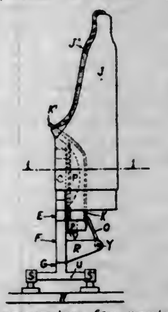
1. A snow plow adapted for mounting on the front end of propelling mechanism and comprising a shovel-like casing open at its forward side, snow gathering shovels extending across the open side of the casing including disk blocks and shovel blades pivoted at their inner ends to swing in planes perpendicular to the axes of said disk blocks, and a fan blower in the casing for conveying gathered snow to a distant point for discharge.

1,781,579. TYPEWRITING MACHINE. GEORGE F. HANDLEY, Glendale, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 15, 1928. Serial No. 326,318. 13 Claims. (Cl. 197—165.)



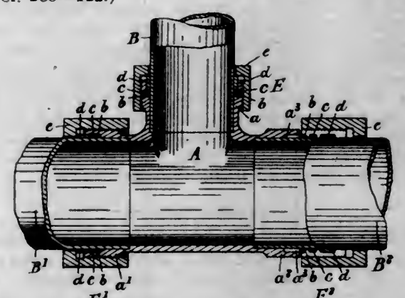
1. In a typewriter or the like, a ribbon feeding mechanism, a ribbon reversing mechanism, a movable ribbon-controlled means for operating said reversing mechanism, means for returning the ribbon controlled means to its initial position immediately following the operation of the reversing mechanism whereby a slack in the ribbon is formed, and means other than the ribbon feeding mechanism for automatically and substantially instantaneously taking up the slack in said ribbon immediately following the operation of the reversing mechanism.

1,781,580. TAILORING. MAURICE HÉLIOT, Troyes, France. Filed Nov. 19, 1928, Serial No. 320,517, and in France Jan. 7, 1928. 5 Claims. (Cl. 223—17.)



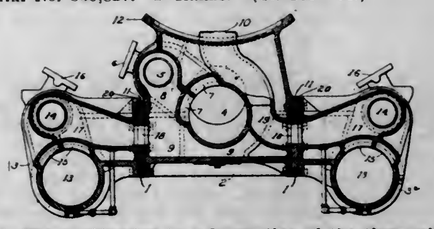
1. In tailoring apparatus for pants and similar garments, in combination, two metal legs shaped to conform to the article under treatment, an axis, means hinging said legs to said axis, a socket mounted on said axis, a segment mounted on said socket, said segment serving to lift the seat portion and form a fold therein.

1,781,581. PIPE JOINT. REGINALD HARVEY HELLYER, London, England. Filed June 5, 1929, Serial No. 368,618, and in Great Britain Sept. 17, 1928. 1 Claim. (Cl. 285—122.)



An improved joint comprising a pipe, a socket member recessed at the outer end thereof and adapted to fit over the end of said pipe, a fixing ring made of harder metal than said pipe and having its sides inclined to the pipe axis and having one edge bearing against said pipe, a soft metal packing ring, a gland ring abutting said packing ring, all said rings fitting around said pipe within said recess, a nut engaging with the outside of said socket and adapted to press against said gland ring and cause said packing ring to spread and effect a tight joint and to cause the edge of said fixing ring to bite into said pipe to prevent longitudinal movement between the pipe and socket.

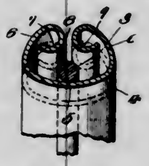
1,781,582. CYLINDER STRUCTURE. THOMAS E. HERRICK, Jr., Philadelphia, Pa. Filed Jan. 29, 1929. Serial No. 335,827. 2 Claims. (Cl. 105—44.)



1. The combination in a locomotive of the three-cylinder type, of two side frames having exhaust passages

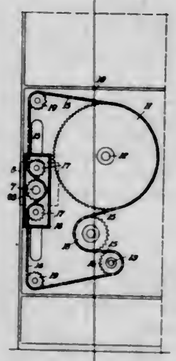
therein; a central cylinder structure mounted between the frames and having an integral cylinder; an exhaust passage formed in the central cylinder structure, said exhaust passage extending under and around one side of the central cylinder, and having openings aligning with the passages in the two frames; a side cylinder on each side of the structure, one mounted on the outside of one frame and the other mounted on the outside of the other frame, and having exhaust passages communicating with the passages in the frame of the locomotive, whereby the exhaust from the said side cylinders passes through the frames and through the central cylinder structure.

1,781,583. HANDLE GRIP FOR PAILS. WILLIAM W. HODGSON, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 5, 1929. Serial No. 352,714. 1 Claim. (Cl. 220—94.)



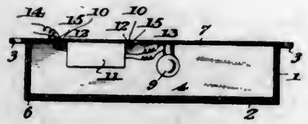
A metal bail handle grip for wire bail pails comprising a metal blank shaped to form an integral handle portion of substantially uniform curving cross section and shaped from end to end thereof to conform to the curvature of the bail, the side edge portions of the blank being rolled inwardly from end to end thereof so as to form a strengthening rib throughout the length of the bail handle, said side edged portions being spaced from each other thereby forming a bail receiving recess so as to permit the bail to snap past said spaced edges into said recess, and a handle grip thereby attached to the bail.

1,781,584. SPINNING AND TWISTING MACHINE. JOHANN JACOB KEYSER, Aarau, Switzerland. Filed Aug. 12, 1929, Serial No. 385,335, and in Germany and Switzerland Nov. 5, 1928. 3 Claims. (Cl. 118—41.)



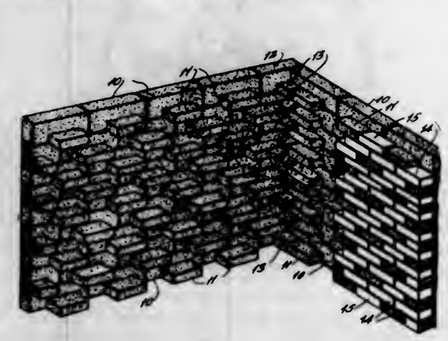
1. In a spinning and twisting machine a stationary frame, a spindle actuating shaft, a spindle carrying beam supporting said spindle actuating shaft and adapted to vertically reciprocate on the said stationary frame, an endless sprocket chain for operating the said actuating shaft, guiding sprockets carried by the said beam in fixed spaced relation with the spindle actuating shaft and adapted to reciprocate with the said beam and guiding sprockets on the said stationary frame in fixed spaced relation and not partaking in the beam reciprocation.

1,781,585. ILLUMINATED NUMBER SIGN. WILLIAM FRANK KIEFER, Evansville, Ind., assignor of one-half to Manson Louis Reichert, Vanderburgh County, Ind. Filed Aug. 19, 1929. Serial No. 386,933. 2 Claims. (Cl. 40—132.)



1. In an illuminated number sign, the combination with an outer box having means for its attachment to a wall or other support and provided with an open outer face surrounded by an inturned flange, of a transparent pane contained within the outer box and abutting said inturned flange, a self-contained illuminating unit comprising an inner box having a back adapted to lie flush with the back of the outer box, said inner box being contained within, and fitting, the outer box and having an open outer face and also engaging the pane and holding it against the inturned flange, and illuminating means carried by the back of the inner box, said outer box holding the inner box in position and said inner box holding the pane in place, without requiring fastening means either for the inner box or for the pane.

1,781,586. CAST-STONE TRIM BLOCK. GIUSEPPE LAUDICINA, East New Haven, Conn. Filed May 16, 1929. Serial No. 363,503. 4 Claims. (Cl. 72—39.)

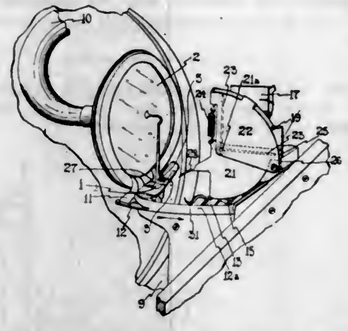


1. A wall construction consisting of a tier of courses of building blocks, the blocks in each course being staggered with respect to the blocks of the preceding course, each of said blocks being provided with a projection on one face, said projections being all positioned on the same face of the tier, bricks interposed between the projections in each course, and other bricks interposed between the projections of one course and the projections of the succeeding course.

1,781,587. MEANS FOR CHANGING THE NEEDLES OF GRAMOPHONES AND LIKE MACHINES. LEONARD MANOHAM, Wellington, New Zealand, assignor to Mangham's Automatic Needle Changer Limited, Wellington, New Zealand. Filed Dec. 19, 1927, Serial No. 241,228, and in New Zealand May 30, 1927. 11 Claims. (Cl. 274—45.)

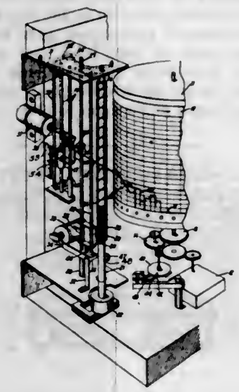
1. Means for changing the needles of phonographs comprising a needle gripping device carried by the stylus block including a release lever, a cam fixed to the casing of a machine engageable with said lever by movement of the tone arm upon which said stylus block is mounted,

to "rest" position, toward said cam for releasing the needle, a needle magazine, and a transfer device for



receiving a needle from said magazine and delivering it to said gripping device, said transfer device also being actuated by movement of the tone arm.

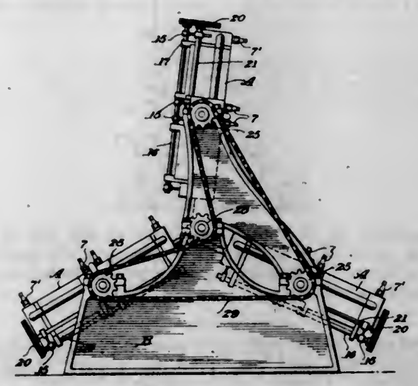
1,781,588. DEMAND METER. FREDRICK S. MARCELLUS, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 7, 1926. Serial No. 114,114. 10 Claims. (Cl. 234—5.5.)



1. A demand meter comprising means actuated in accordance with the demand to be measured, a demand element adapted to be driven by said actuating means over predetermined time intervals through suitable motion transmitting means, said motion transmitting means having different motion transmitting ratios for different parts of the operating range of said apparatus and an indicator controlled by said demand element.

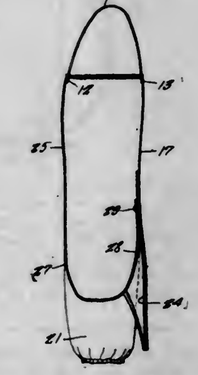
1,781,589. INTERNAL-COMBUSTION ENGINE. MYRON MARCELLUS, Liberal, Kans. Filed May 10, 1929. Serial No. 362,006. 1 Claim. (Cl. 123—42.)

An internal combustion engine comprising a base, a pair of spaced vertically disposed extensions on the base, pairs of cylinder bearings carried by the extensions and the base adjacent the ends thereof, crank shaft bearings carried by the extensions in a plane above the bearings on the base and in vertical alignment and in a plane below the bearings on the extensions, a crank shaft journaled in the crank shaft bearings, cylinders each having a pair of explosive chambers pivoted intermediate their ends in said pairs of bearings, pistons in said chambers and connected in pairs within each cylinder, means connecting the pistons of each cylinder to the crank shaft, intake exhaust valves for the chambers, valve operating mechanisms carried by each cylinder for the valves, a stub-shaft for each cylinder and extending through one



pivot of the respective cylinder, means connecting the stub-shaft of each cylinder with the respective valve operating mechanism thereof, gears secured to the stub-shafts and the crank shaft, and a sprocket chain connecting the gears.

1,781,590. COMBINATION GARMENT. MARGARET ELEANOR MCCOY, Duluth, Minn. Filed Mar. 28, 1928. Serial No. 265,506. 2 Claims. (Cl. 2—23.)

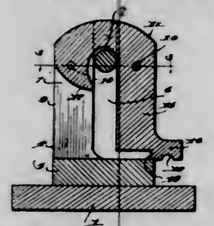


1. In a garment, a plurality of side portions and shoulder straps connected therewith, these portions constituting the sides of the body of the garment and having their lower ends formed into leg portions, a back portion connected with the edges of the upper part of the side portions, a thickness of impervious material connected with the inner side of the lower part of the back, a front portion connected with the front edges of the side portions of the garment and extending downwardly and then rearwardly and having adjustable connection with the inner side of the thickness of material secured to the back of the garment, said front portion having its lower end wider than the remaining portion of the front and having its edge portions secured between the leg portions.

1,781,591. SAFETY CATCH. WILLIAM O. MCINTYRE, Charlotte, N. C. Filed Aug. 2, 1929. Serial No. 382,967. 5 Claims. (Cl. 24—157.)

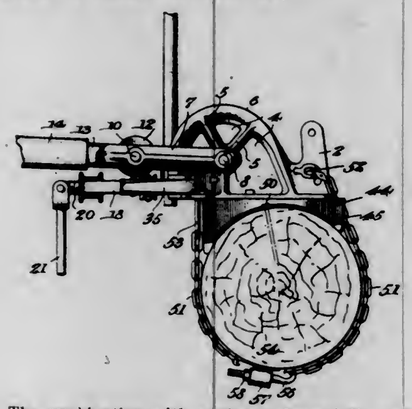
1. A safety catch comprising a base having stud members extended therefrom, certain of which define a pin-re-

ceiving slot and others of which define a hook-receiving slot, a hook swingably mounted in said last-named slot and arranged to extend across said first named slot and said hook having a shank provided with a member



projecting in an opposite direction to the bill of the hook end serving as a means for swinging the hook and as a means for limiting the swinging movement of said hook in one direction.

1,781,592. PIPE VISE AND BENDER. ALBERT HENRY MEIER, Evansville, Ind. Filed Dec. 7, 1927. Serial No. 238,284. 6 Claims. (Cl. 153—46.)



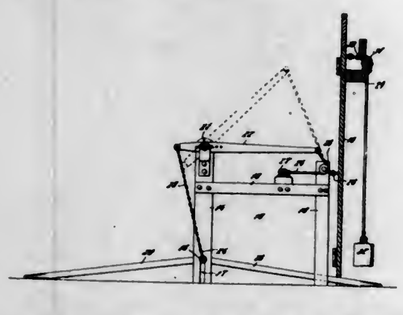
1. The combination with a pipe, rod, conduit, or tube bender and vise having a base, of a saddle detachably connected to said base, enabling said saddle to be utilized or removed, separate chains each connected to the base and adapted to be passed around a pole or post, and an adjustable hook connector for detachably and adjustably connecting together the free parts of the chains.

1,781,593. SAFETY FUSE AND CIRCUIT TESTER. ALFRED A. MONTAPERT, Los Angeles, Calif. Filed Apr. 25, 1927. Serial No. 186,518. 4 Claims. (Cl. 175—183.)



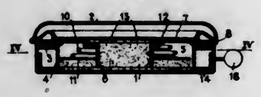
1. A device of the character described comprising a pair of similar elongated tubular members each equipped at one end with a contact, a shield member pivotally connected with and confining the other ends of the members, and a resistance coil embedded and insulated within each member and connected with the associated and adjacent contact, the resistance coils being connected in series.

1,781,594. DOOR-OPERATING DEVICE. ISAAC E. MORROW, Dallas, Tex. Filed Sept. 10, 1927. Serial No. 218,691. 2 Claims. (Cl. 268—35.)



1. In combination with a pair of doors, a bar mounted for vertical sliding movement transversely of and spaced from the doors, a pair of alined treadle plates extending from the doorway at each end thereof and having their adjacent ends pivotally secured to the bar, a lever mounted for pivotal movement above each pair of plates, means connecting one end of each lever and the sliding bar, flexible means connecting the other ends of the bar and doors, whereby when the treadle plates are depressed the doors will be opened and means to close the doors.

1,781,595. POWDER-SUPPLYING DEVICE WITH ADJUSTABLE FEED. LOUIS MUTTI, Paris, France. Filed Feb. 27, 1929, Serial No. 343,188, and in France Mar. 5, 1928. 5 Claims. (Cl. 132—82.)

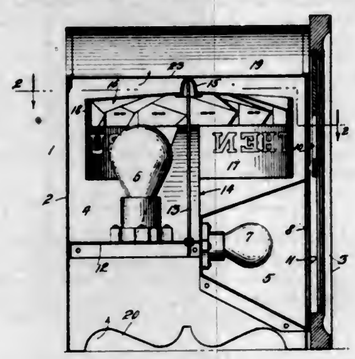


1. A powder supplying device comprising a casing, a powder storage chamber in the casing, a perforated disc supported above the chamber, a cover on the casing and spaced from the disc to provide a space to receive a powder puff, a spring pressed plunger in the casing for maintaining the powder under pressure, a discharge conduit in communication with the powder chamber and the perforations in the disc, a rotatable means in the casing adapted to force the powder from the storage chamber and through the discharge conduit and the perforations and means for rotating the last-mentioned means.

1,781,596. ADVERTISING DEVICE. MARSHALL H. PAGE, New York, N. Y., assignor, by direct and mesne assignments, to Line-O-Graph Company, Kansas City, Mo., a Corporation of Missouri. Filed Feb. 9, 1929. Serial No. 338,698. 1 Claim. (Cl. 40—40.)

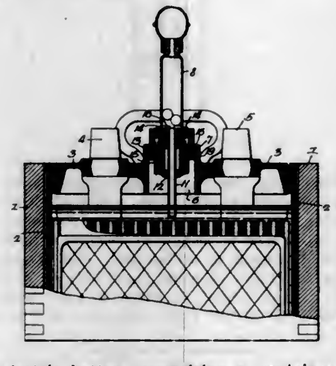
In an advertising device, two compartments, one having a horizontal portion forming a floor, said horizontal portion being secured to a vertical portion forming a wall, flaring upper and lower parts integral with said wall forming one of said compartments, a rotatable sign with means for driving the same mounted upon said floor projecting over said flaring parts, a window in front of said sign,

means for illuminating said sign so that the movable sign may be read through said window, another sign in front of said flaring parts and means enclosed in said last



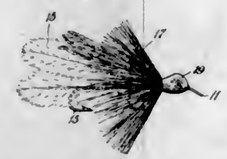
named compartment for illuminating said sign in front of the flaring parts, the two illuminating means being separated by the upper flaring part and a part of said vertical wall thereby forming a light-proof partition.

1,781,597. BATTERY TESTER. LAWRENCE J. PEARSON, Wyncote, Pa., assignor to Philadelphia, Storage Battery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 11, 1925. Serial No. 8,425. 2 Claims. (Cl. 136—182.)



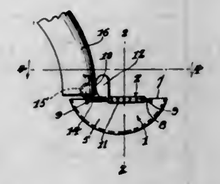
1. An electric battery comprising a container having a port, a closure for said port recessed from the outside, a density-testing device comprising a transparent hollow member seated in the recess and containing at least one detached body of predetermined density, a collar adapted to be threaded into the recess to retain the member in position, said closure having a vent independent of said testing device, and means for drawing electrolyte from the battery into said member when the closure is in position in the port.

1,781,598. FISH LURE. ERNEST H. PECKINPAUGH, Chattanooga, Tenn. Filed Sept. 9, 1929. Serial No. 391,337. 4 Claims. (Cl. 43—48.)



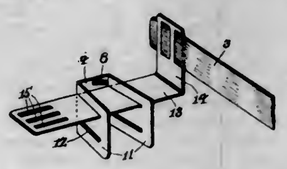
1. Tandem fish hooks comprising a front hook having a reversely bent shank presenting an eye at the bend and extending rearwardly to a point near the rear of the hook; an eye formed on the end of the reversely bent portion and lying in the same plane as the front hook; and a rear hook having an eye connected to said eye on the rear end of the reversely bent portion.

1,781,599. PORTABLE SANITARY DRINKING FOUNTAIN. SVERRE QUISLING, Madison, Wis. Filed Dec. 27, 1929. Serial No. 416,930. 10 Claims. (Cl. 299—17.)



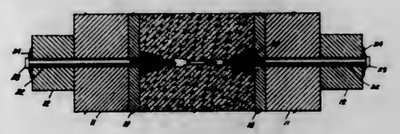
1. A portable drinking fountain comprising a hollow, open top water directing element, and a coupling element slidably connected to said directing element at the top thereof and coacting with the directing element to provide the latter at one end of its top with a water intake and at its other end with a water outlet, said coupling element being adjustable to provide for varying the size of and the closing of the intake and for varying the size of the said outlet, said coupling element provided with means at one end for detachably securing said directing element in position to receive water at the intake thereof.

1,781,600. COMBINED AUTOMOBILE HEADREST AND STRAP HANGER. SVERRE QUISLING, Madison, Wis. Filed Mar. 19, 1930. Serial No. 437,227. 3 Claims. (Cl. 155—174.)



1. A device of the character described comprising, a pair of brackets adapted to be anchored to opposite sides of an automobile body, said brackets having inwardly extending leg portions, the leg portions of each bracket having horizontally aligned pairs of slots extending lengthwise of the leg portions, a pair of supports having angularly disposed portions of unequal length for selective insertion through selected aligned slots of the leg portions, and a flexible supporting element for selective detachable connection with the angularly disposed portions of each support.

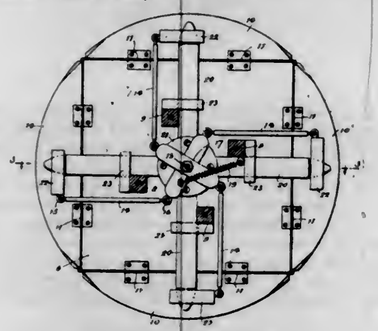
1,781,601. COMBINATION FORM HOLDER AND CONCRETE ANCHOR. CHARLES N. ROHAUT and EDGAR G. GEARHART, Astoria, Oreg. Filed July 6, 1929. Serial No. 376,305. 2 Claims. (Cl. 25—131.)



2. A combined concrete form holder and anchor comprising a tie rod having threaded extremities adapted to be arranged in the form, frusto-conical shaped anchor nuts adjustable on said extremities, spaced lugs and de-

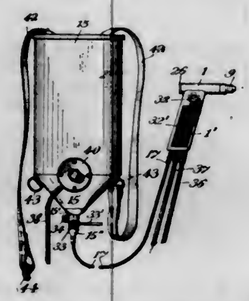
pressions arranged on the outer end of each nut to accommodate a suitable wrench for adjusting said nuts, said lugs embedding themselves in the adjacent members of the form to prevent turning of the nuts on said tie rod, bolts passed through the form and threaded into said nuts for holding the form together, and removable to permit the collapsing of said form, said nuts being subsequently removable from the concrete structure to provide depressions, and wooden nailing blocks of frusto-conical form adapted to be arranged in said depressions and threaded on the adjacent extremities of said tie rod.

1,781,602. EXTENSION TABLE TOP. FRANK RYGL, New York, N. Y. Filed Apr. 28, 1928. Serial No. 273,575. 1 Claim. (Cl. 45—9.)



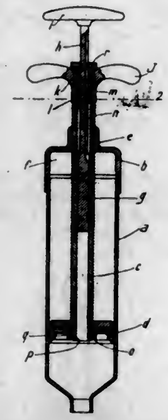
An extension table top including a main stationary top section and leaf sections connected to the marginal edges of the main section for movements respectively to an extended position in a plane parallel with said main section and to a folded out of the way position underlying the main section, a connection between said leaf sections to cause simultaneous movement thereof, means for locking and rigidly supporting said leaf sections in their extended position, said means comprising a member mounted for turning movement on the under side of the central portion of the main top section and radial arms turnable therewith from an inactive position within the confines or area of the main top section to an active position projecting beyond the marginal edges of the main top section and underlying the leaves and keepers provided respectively on the under side of the leaves and the under side of the main table top section.

1,781,603. ATOMIZER FOR MATERIALS IN POWDER FORM. FRITZ SCHORI, Wetzikon, Switzerland. Filed Jan. 6, 1927, Serial No. 159,490, and in Switzerland Oct. 5 1926. 11 Claims. (Cl. 91—12.2.)



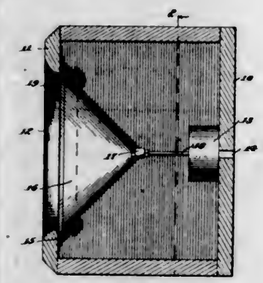
1. An arrangement for atomizing materials and particularly materials in powder form, comprising in combination, a portable receptacle adapted to take up a stock of the material to be atomized, a hand-apparatus containing a nozzle, means to supply a medium under pressure to said nozzle of the hand-apparatus whereby a suction action is generated, and gravity supplied depending conduit means downwardly discharging and a hose connecting the lower end of said receptacle to said hand-apparatus and having atmospheric air admission means to admit air after the material has left the receptacle for conveying the material to be atomized from said receptacle to said hand-apparatus by the suction action of said nozzle by which it is atomized by the same pressure medium which generates the suction.

1,781,604. LUBRICATING GUN. JULIEN EUGÈNE MARIUS SEGUIN, Paris, France. Filed Sept. 24, 1929, Serial No. 394,911, and in France Oct. 6, 1928. 2 Claims. (Cl. 221—47.3.)



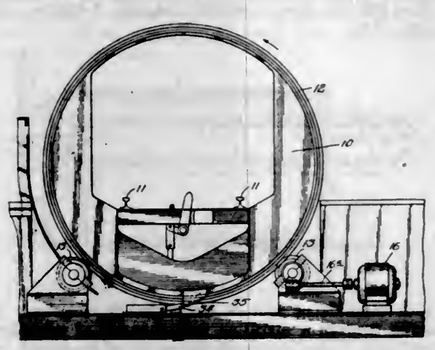
1. A lubricating gun comprising a pump body, a piston slidably mounted in said body, a hollow piston rod for said piston, a second smaller piston slidably mounted in said rod, means for manually reciprocating said smaller piston including a piston rod, and a nut screwed into said first piston rod feathered to said second piston rod and having means for abutting said smaller piston at the end of its stroke when said piston rod is rotated.

1,781,605. REPRODUCING DEVICE. EDWARD G. SEIBERT, Washington, D. C. Filed Oct. 4, 1929. Serial No. 397,346. 6 Claims. (181—31.)



1. A reproducer comprising a cone and means connected to the apex thereof to produce vibrations thereof, and cushions to support said reproducing cone mounted in contact therewith at points removed from the free edge of said cone.

1,781,606. CAR DUMPER. GEORGE N. SIMPSON, Chicago, Ill. Filed Oct. 29, 1928. Serial No. 315,654. 5 Claims. (Cl. 214—52.)

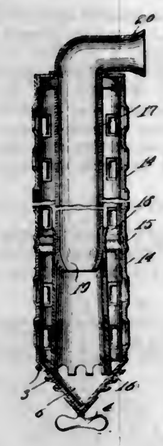


1. A car dumper of the character described comprising; a rotatably mounted cage adapted to contain a car to be dumped; an approach track leading to the cage; a receiving track leading from the cage; means for rotating the cage; a stop adapted to be engaged by a part on the cage upon completion of the dumping operation; and means operated by movement of a car for disengaging said part from said stop, said means including a trigger adapted to be engaged by a car and a connection between said trigger and said part.

1,781,607. DRAWING LUBRICANT. FRANK F. STAMBERG, Cicero, Ill., assignor to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed Aug. 13, 1927. Serial No. 212,847. 4 Claims. (Cl. 87—9.)

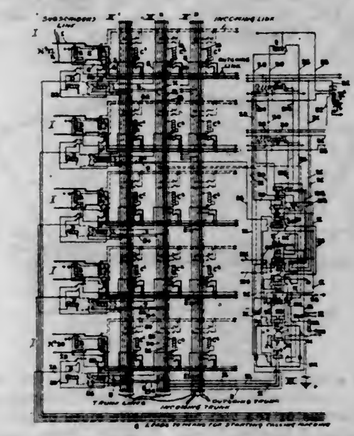
1. An emulsified composition comprising oil, green acid soap, colloidal clay, and water.

1,781,608. VENTILATOR. JOHN STROBLE, Seward, Kans.; Ella Stroble administratrix of said John Stroble, deceased. Filed Sept. 9, 1927. Serial No. 218,505. 1 Claim. (Cl. 98—57.)



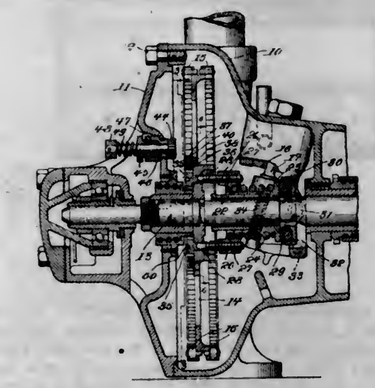
In a grain ventilator a pair of foraminated casing sections having interfitting detachable connection, a cap removably received in the upper end of one of the sections and provided with a central opening, a conduit section arranged centrally in the lower casing section and having outlets at its lower end and having its upper end flared, a second conduit section arranged in the other casing section and having one end extended through the central opening in the cap and attached to the latter, the lower end of said conduit section being tapered to facilitate engagement with the flared end of the first mentioned conduit section.

1,781,609. AUTOMATIC TELEPHONE SYSTEM. MICHEL TCHOUBRITCH, Sucy-en-Brie, France. Filed Apr. 4, 1928, Serial No. 267,396, and in France Apr. 11, 1927. 9 Claims. (Cl. 179—18.)



1. Automatic relay selector circuit for telephony, said circuit comprising in combination with a network of trunk lines (II), each terminating in a conversation line (III), marker groups (IV) cooperating with a common connecting circuit (V) and individual equipments (I) for the subscribers' lines, the individual equipment of each subscriber's line including a line-reversing relay (A) with two pairs of contacts for connecting, when the subscriber's line (1, 2) is idle, with its incoming trunk (88, 89), and when operative, that is, only when the subscriber's station is the calling party, the said subscriber's line with the outgoing trunk (4, 5), the said two links (88, 89 and 4, 5) being individual to each equipment (I) of a subscriber's station.

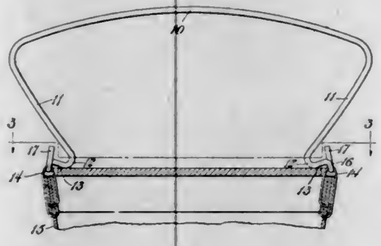
1,781,610. GOVERNOR ATTACHMENT. ATILLA S. TOROK, Cumberland, Md. Filed Oct. 31, 1928. Serial No. 316,229. 4 Claims. (Cl. 253—82.)



1. In a turbine, a housing, a turbine wheel mounted for rotation therein, a valve controlled inlet port, a centrif-

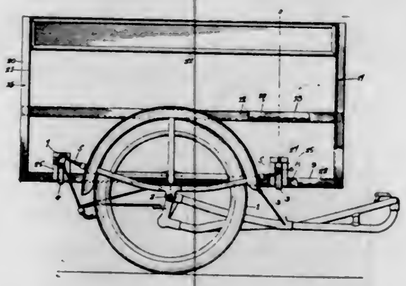
ugal governor located within the housing and operatively connected to the turbine wheel, means acted upon by the governor to operate the valve of the inlet port and control the speed of the turbine wheel, means to adjust the governor to regulate the operation of the valve, and means operable from the outside of the housing and normally disengaged from the governor adjusting means to operate the latter.

1,781,611. BASKET HANDLE. FRANK B. TOWNSEND, Penn Yan, N. Y., assignor of one-half to John E. McMath, Penn Yan, N. Y. Filed Aug. 7, 1928. Serial No. 298,065. 6 Claims. (Cl. 217—125.)



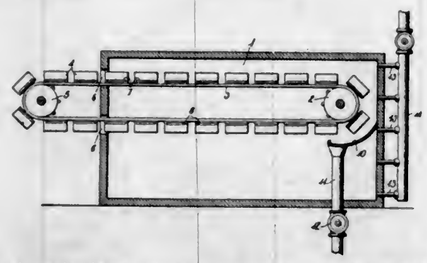
4. In combination with a fruit basket of the class described, a pair of handle receiving eyes extending above and crosswise of the rim on opposite sides of the basket; a bail-shaped handle having terminal hooks presenting upstanding and outwardly curved end portions shaped to be threaded freely into the eyes, one through one side of one eye and the other through the opposite side of the other eye while the handle is held crosswise of the basket and also shaped to interlock with the eye members and thereby prevent the handle from being accidentally displaced by pressure on the sides; and shoulders on the handle arranged to snap over the basket lid to hold it down, the lid having notches co-operating with the hooks to lock the handle on the basket and permitting the handle to be swung down over the lid.

1,781,612. CARRIER OF THE PLURAL-DECK TYPE. SIMEON E. TRAVIS, Jr., Hattiesburg, Miss. Filed Jan. 6, 1930. Serial No. 418,851. 8 Claims. (Cl. 208—45.)



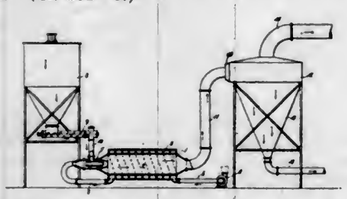
1. In combination, a side car structure for a motorcycle including a pair of spaced, opposed stirrups disposed at right angles to the line of travel of the cycle and resilient supporting means for the stirrups, a plural deck carrier supported by, connected with and extending above the said stirrups and including a bottom, and filler members between the bottom of the carrier and said stirrups.

1,781,613. CARBONIZING PROCESS. WALTER EDWIN TRENT, New York, N. Y., assignor to Trent Process Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 27, 1925. Serial No. 12,128. 6 Claims. (Cl. 202—117.)



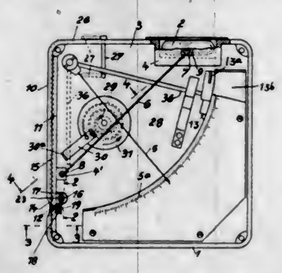
1. A carbonizing process comprising progressively advancing through a distilling zone a series of containers, introducing a predetermined charge of carbonaceous fuel matter to each container, providing for each container a removable storage element of a size sufficient to store heat units required to carbonize the fuel charge of each container, heating each element to a predetermined temperature before application to its container and moving said elements through the distilling zone with the containers to effect carbonization of fuel charges in the containers solely by the heat radiating from said heat storage elements.

1,781,614. PROCESS FOR DISTILLING COALS. WALTER EDWIN TRENT, New York, N. Y., assignor to Trent Process Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 21, 1925. Serial No. 76,758. 6 Claims. (Cl. 202—8.)



1. In a distillation process comprising introducing finely comminuted coal to a moving stream of combustion supporting gas, in effecting a sufficient partial combustion of said coal in the gas to generate sufficient heat to remove volatiles from and carbonize the comminuted coal, in separating the carbonized coal particles by discharging a portion of the lighter carbonized particles in suspension in the gas stream and withdrawing the remaining portion of such carbonized particles substantially undiluted by gas.

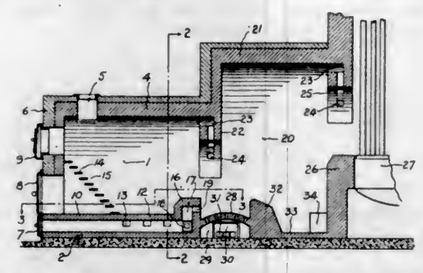
1,781,615. PENDULUM HARDNESS TESTER. EMIL VON LEESEN, Berlin-Treptow, Germany. Filed Jan. 27, 1927. Serial No. 164,112. 12 Claims. (Cl. 265—13.)



1. A pendulum hardness tester, comprising, in combination, a frame, a pendulum carried on said frame, a hammer

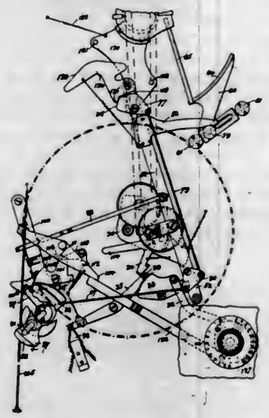
head carried by said pendulum, a hand oscillatorily carried on said frame, means for automatically coupling said hand to said pendulum on its rebounding stroke, means for submitting said hand to friction acting from opposite directions against said hand, and a scale arranged in conjunction with said hand.

1,781,616. FURNACE. ROBERT WALKER, Vancouver, British Columbia, Canada. Filed Nov. 14, 1928. Serial No. 319,375. 2 Claims. (Cl. 110—73.)



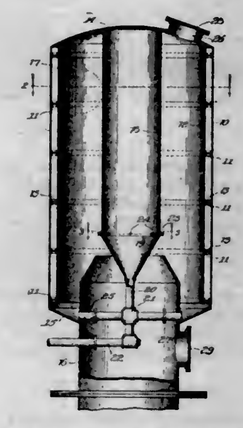
1. A furnace comprising a combustion chamber having a hollow raised portion extending longitudinally and centrally of the forward end of the chamber floor to provide an air inlet trunk, said trunk having its side walls provided adjacent their inner ends with air vents, a hollow bridge extending transversely of the chamber floor at the inner end of the said trunk and in communication with the latter, said transverse bridge having air vents in its rear face, a perforated grate disposed against the rear face of the transverse bridge and below the air vents thereof, said grate being co-extensive with said bridge, air inlets in the walls of the chamber communicating with the said trunk, bridge and perforated grate of the combustion chamber, a retaining wall at the rear side of the said grate, and a fire arch depending from the roof of the chamber in line with the said grate, said arch having means for receiving the lighter particles of fuel rising above the normal stream of burned gases and deflecting same through the stream onto the said grate.

1,781,617. TALKING MACHINE. ERIC NEWHAM WATERWORTH, West Hobart, Australia. Filed Dec. 15, 1927, Serial No. 240,279, and in Australia Feb. 11, 1927. 3 Claims. (Cl. 274—10.)



1. In a multi-disk phonograph, an inclined rotary platform for supporting records of varying diameters, a spindle supporting said platform, a tone arm, a lever for imparting movement to the tone arm, a movable stop upon the lever at one end, a crank element at the other end of said lever, operative connection between the stop and crank element, a lever connected to the crank element, a plate upon the spindle having spaced notches in its periphery, and an element upon the lever engageable in the notches in the plate selectively in the adjustment of the plate for the purposes described.

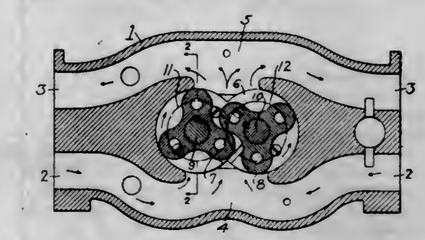
1,781,618. TAR SEPARATOR. GEORGE W. WATTS, Whiting, Ind., assignor to Standard Oil Co. of Indiana, Whiting, Ind., a Corporation of Indiana. Filed June 24, 1925. Serial No. 39,305. 6 Claims. (Cl. 183—85.)



2. A centrifugal tar separator for separating tar from a mixture of oil and steam under vacuum comprising an outer cylindrical shell, reinforcing means within said shell, an inner shell within said reinforcing means, means for introducing a mixture of oil and steam into said inner shell, said inner shell presenting substantially an unobstructed surface to said mixture, means for collecting liquid deposited on said inner shell and discharge means for the vapors and liquid.

6. A tar separator for separating a liquid from a gas, comprising a vertically disposed cylindrical shell provided with a closed bottom, a central tube forming with said shell an annular chamber, a pipe discharging tangentially into said chamber near the top thereof, a gas outlet extending upwardly through the bottom of said shell and in substantially vertical alignment with said tube, and means associated with the annular space surrounding said outlet pipe for catching and draining liquid collecting on the inner walls of said shell.

1,781,619. ROTARY PUMP. EVERT J. WENDELL, Wayne, Pa. Filed Oct. 14, 1926. Serial No. 141,596. 2 Claims. (Cl. 103—126.)



1. A liquid rotary pump comprising a casing, coacting rotors in said casing, shafts for said rotors extending

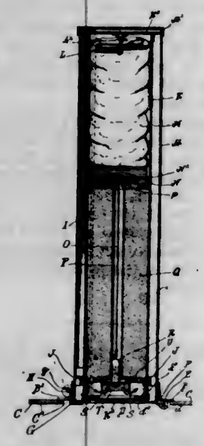
through the casing at both ends, a plurality of bearings for each shaft extremity, said bearings being spaced apart, with one bearing of each set located in sufficiently close proximity to the rotor to prevent local flexure in the intermediate rotor-carrying portions of the shafts, and said bearings cooperating to maintain all portions of the respective shafts in substantial alignment.

1,781,620. MARKING DEVICE. GEORGE S. WHITMORE, Yakima, Wash. Filed Oct. 24, 1928. Serial No. 314,777. 5 Claims. (Cl. 101—109.)



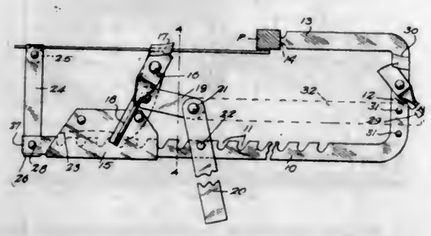
1. A marking implement including end plates, a series of partitions intermediate the end plates, a shaft on which said end plates and partitions are loosely mounted, a series of marking members loosely mounted on said shaft between the end plate and adjacent partitions and between the respective partitions, each marking member being movable independently on the shaft, means whereby each marking member may be temporarily secured with respect to the adjacent partition, and means on the shaft beyond one end plate to hold the parts in more or less rigid connection following the movement of the member.

1,781,621. ILLUMINATING DEVICE FOR AIRCRAFT. SAMUEL WILEY, Metuchen, N. J. Filed Oct. 11, 1929. Serial No. 399,070. 11 Claims. (Cl. 102—24.)



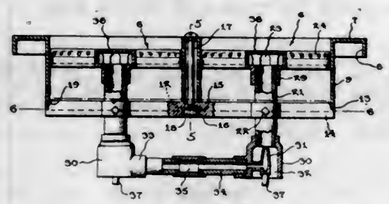
1. Apparatus for use in launching and operating flares from aircraft, comprising a container open at the bottom and secured to the lower portion of the aircraft, and mounted above an opening therein, a spring actuated door mounted below said aircraft and adapted to close the lower end of said container, means for locking said door in the closed position, and for releasing same when desired, and a casing slidably mounted in said container, a parachute mounted in the upper part of said casing, flare composition and a friction primer mounted in the lower part of said casing, a plug mounted in said casing and separating said parachute from said flare composition, a removable cap normally closing the upper end of said casing, a breakable cord connecting said cap with the parachute, a wire connecting the parachute stays with the friction primer, a stop carried by said wire adapted to anchor same to the flare body, and means controlled by the falling of said casing from said container, when the door is opened for automatically removing said cap and holding it in the container after said casing with its contents have dropped through the open doorway.

1,781,622. WIRE PULLER. LEONARD H. WILLIAMS, Freewater, Oreg. Filed June 25, 1928. Serial No. 287,929. 7 Claims. (Cl. 254—71.)



2. A wire pulling machine comprising an elongated body member having spaced holding devices therealong, a pulling carriage mounted on the body member for movement therealong, a lever having connection with the carriage and constructed to have a selective engagement with the holding devices, an extension on the body portion and having its outer end looped and pointing in the general direction of the length of the body portion, the open end of the loop being of a size to receive substantially all of the carriage when moved along the body member.

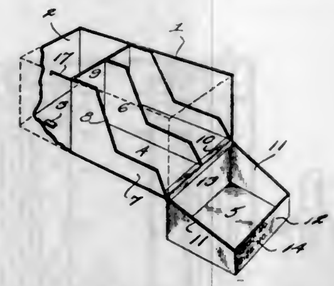
1,781,623. GAS BURNER. JOHN S. ZINK, Tulsa, Okla. Filed Aug. 11, 1928. Serial No. 299,046. 9 Claims. (Cl. 158—99.)



1. A burner, including an air passageway, a spreader located in the passageway and provided with a number of spaced radial arms, each having sets of diverging apertures arranged to cause jets of gaseous fluid from the apertures of the arms to impinge above the arms, and means for feeding a mixture of air and gas under pressure to the spreader, the spaces between the arms being unobstructed to allow secondary air to mix with the impinging jets above the spreader.

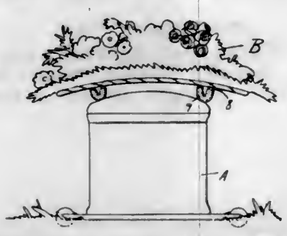
1,781,624. BOX OR CONTAINER. LELAND S. BARNES, Chattanooga, Tenn. Filed July 14, 1926. Serial No. 122,433. 1 Claim. (Cl. 206—44.)

A drop end shoe box constructed to display the shoes without removing the same from the box, said box comprising an outer case open at one end, a slidable container wholly arranged within the case and including a bottom, rear end walls, opposed side walls and a centrally located partition parallel with the side walls, said side walls and partition being materially reduced in length for the major portion of their length adjacent the open end of the case, whereby the major portion of the shoes received by the latter will be presented to view when the box is open, a tray having its inner end hingedly secured to the outer end of the slidable container, and normally arranged vertically within the case, and adapted to be swung outwardly therefrom to a horizontal position,



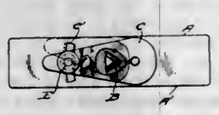
when the container is slid outwardly with relation to the case, and a flexible element terminally connected with the adjacent rear walls of the case and container to limit the movement of the container, and maintain the latter wholly within the case when the tray is swung to its horizontal position, whereupon a portion of the shoes will be projected from the case for display.

1,781,625. GRAVE COVER AND CASKET OR VAULT DECORATION. JOHN W. BLACKLOCK, Brookfield, Mo. Filed July 9, 1928. Serial No. 291,291. 3 Claims. (Cl. 27—30.)



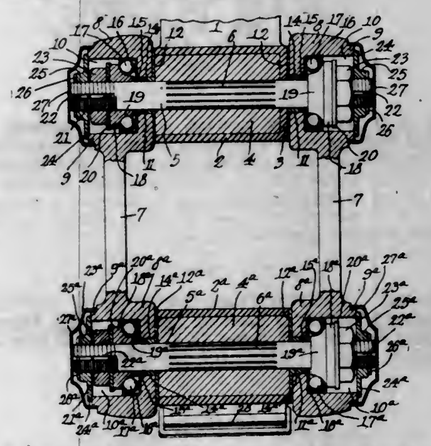
1. A flower holder and grave cover of the character described comprising a plurality of longitudinally curved rectangular sections, each section including spaced parallel longitudinal bars and transverse end bars connecting the opposite ends of the longitudinal bars, said longitudinal bars being provided, at points spaced inwardly from their opposite ends, with downturned substantially U-shaped portions constituting legs for supporting the sections in vertical spaced relation on a coffin lid and flexible elements for connecting the sections together.

1,781,626. FILE GUIDE FOR SAW SHARPENING. NICOL ALEXANDER BOOTH, Dunedin, New Zealand. Filed Sept. 4, 1928, Serial No. 303,937, and in New Zealand Jan. 4, 1928. 5 Claims. (Cl. 76—36.)



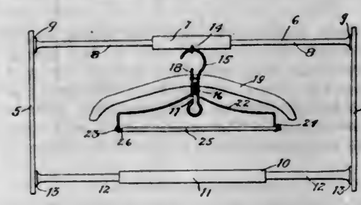
1. A file guide for use in sharpening saws, comprising a guide plate having parallel opposite faces and parallel longitudinal edges and also having an opening between its ends, a file-carrying plate pivoted adjacent one of its ends to one of said faces of said guide plate to rock in a plane parallel to said face, and a file-receiving socket carried by said file-carrying plate and aligning with said opening of said guide plate, said socket having a wall disposed at an inclination to said face of said guide plate and of which the inclination to the opposite edges of said guide plate may be varied by rocking said file-carrying plate on its pivot.

1,781,627. SHACKLE. ALBERT C. BOSCHKE and EDGAR W. BLACK, Los Angeles, Calif. Filed Feb. 13, 1928. Serial No. 253,999. 1 Claim. (Cl. 267—54.)



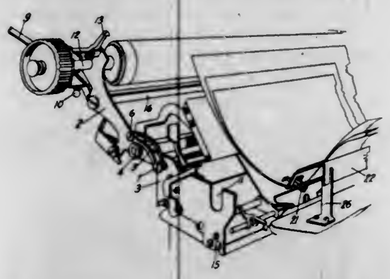
In a device of the class described, a member having a reduced neck, said member being provided in one end with a chamber, and in the opposite end with a reduced bore communicating with the chamber, a disc having a reduced hub extended into the bore, a ball cage abutting against said member at the inner end of the chamber, a washer in the bore between the ball cage and the end of the hub of disc, balls in the ball cage, a closure plate abutting against the end of the neck and having a hub, a shaft extended through the hubs, the washer, and the cage, there being a slot in that part of the shaft which is adjacent to the closure plate, a disc on the shaft and having a cross bar received in the slot, a tapered bearing on the shaft and cooperating with the balls, a nut threaded on the shaft, the disc being bound between the bearing and the nut, the bearing, the disc and the nut being located in the chamber, a securing element mounted in the shaft at the outer end of the hub of the closure plate, and a cap housing the closure plate and the corresponding end of the shaft, the cap surrounding the neck and being mounted on the neck.

1,781,628. CARRIER FOR GARMENTS. ELDRIDGE R. BOYLE, Boston, Mass. Filed Oct. 18, 1928. Serial No. 313,278. 6 Claims. (Cl. 223—61.)



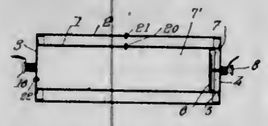
1. A carrier for garments comprising a stretcher frame having sides, top and bottom members, a hook attached to the top member, a shoulder form adjustable lengthwise of the hook and means preventing the tilting of the form around the hook.

1,781,629. TYPEWRITING MACHINE. CHARLES C. BRIDWELL, Westerville, Ohio. Filed Feb. 18, 1927. Serial No. 169,167. 5 Claims. (Cl. 197—127.)



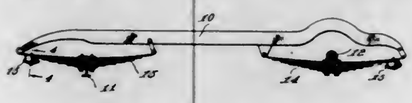
1. In a typewriting machine, a movable carriage, a platen frame carrying a rotatable platen, said frame having supporting means pivotally mounted on said carriage at a point remote from the normal operating position of the platen to permit the platen to be moved to a position such as to uncover the space normally occupied by the platen when in operative relation.

1,781,630. TEMPERATURE-RESPONSIVE DEVICE. LOUIS JOSEPH JEAN BAPTISTE CHÉNEAU, Paris, France. Filed June 27, 1927, Serial No. 201,933, and in Belgium July 3, 1926. 2 Claims. (Cl. 200—140.)



1. A device of the class described comprising a central chamber having lateral walls formed of a relatively poor conductor of heat, a second chamber external to said central chamber and enclosing the latter, said second chamber having a wall formed of a relatively good conductor of heat, a pressure responsive partition forming at least part of a common wall separating said chambers from one another, electrical contacting means associated with said partition, and an electrical terminal in conductive relation with one of the walls of one of said chambers.

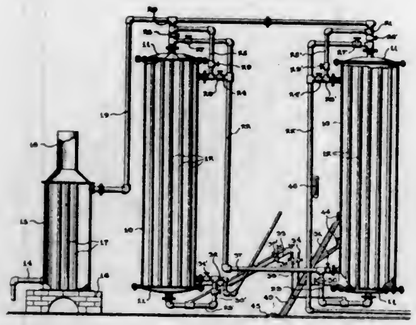
1,781,631. VEHICLE SNUBBER AND SPRING SUSPENSION. ROLLIE B. FAGEOL, Los Angeles, Calif. Filed Oct. 11, 1927. Serial No. 225,511. 10 Claims. (Cl. 267—48.)



1. A vehicle including a multi-leaf spring, a resilient block arranged adjacent each end of the spring and directly contacting with relatively movable leaves of said spring, means to secure said blocks to said spring so that said blocks are effective to yieldingly resist relative longitudinal movement of the spring leaves, and means engaging said last named means to secure said spring to the vehicle.

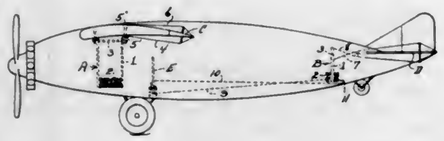
1,781,632. OIL-TREATING APPARATUS. JAMES J. FEARIS, Smackover, Ark. Filed Feb. 25, 1926. Serial No. 90,602. 14 Claims. (Cl. 196—5.)

1. Apparatus for heating oils to remove water therefrom comprising a pair of receptacles disposed in heat exchange relation both of which are designed for the reception of a substance to be treated and a heating agent, intake and discharge conductors for oil each in communication with both of said receptacles and respectively at the lower and upper ends of each, a heating agent conductor in communication with both of said receptacles at



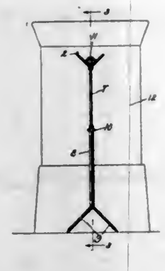
their upper ends, and valve controlled exhaust conductors for said heating agent connecting with said receptacles at their lower ends, the intake and delivery conductors being provided with valves for selective use to direct the oil into and out of either receptacle, and the heating agent conductor having selective valves for the direction of the heating agent into either receptacle.

1,781,633. AUTOMATIC CONTROL FOR AEROPLANES. RICCARDO FEDRIZZI, Weston, Pa. Filed July 23, 1929. Serial No. 380,371. 1 Claim. (Cl. 244—29.)



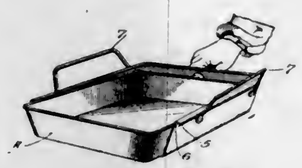
In an aeroplane embodying the usual ailerons and elevators, a pendulum including a weight suspending a frame embodying side members suspended for swinging movement about an axis extending parallel to the longitudinal axis of the aeroplane and in advance of the ailerons, arms extending from said side members, in relatively opposite directions, cables connected with the arms and leading to and connected with the under sides of respective ones of the ailerons, a cable extending between and connected at its ends to the upper sides of the ailerons, a second pendulum including a weight-supporting frame embodying side members suspended, between their upper and lower ends, for swinging movement about an axis, transverse to the longitudinal axis of the aeroplane, and in advance of the elevators, cables connected to the said frame members above their axis and leading to and connected with the respective elevators at the underside thereof, and other cables connected with the frame members below their axis and leading to and connected with the respective elevators at their upper sides.

1,781,634. BOILER-TAP GUIDE. GEORGE FENK, Brooklyn, N. Y. Filed Apr. 10, 1928. Serial No. 268,996. 2 Claims. (Cl. 33—185.)



1. A guide for the purpose set forth, comprising a yoke having a stem extending therefrom, a tubular member in which the stem is received, binding means for adjustably securing the stem in the tubular member and said tubular member having forked prongs at the outer end thereof.

1,781,635. OVEN SCOOP. HENRY L. FISCHACHER, Boston, Mass. Filed Oct. 15, 1928. Serial No. 312,492. 2 Claims. (Cl. 294—32.)



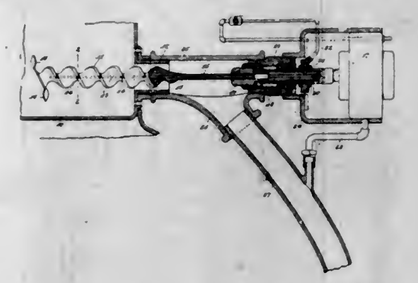
2. A cooking pan scoop comprising a member having a flat bottom and two inclined side walls and one end wall, with the opposite end open, a handle on the end wall, a member arranged to secure the said handle to the end wall and to form a stop inwardly of the said scoop for abutment by a pan, and means to assist in the rocking of the scoop to baste meat in a pan on the scoop, the said means comprising a handle rigidly secured on each of the side walls and extending upwardly and outwardly in the same general direction as the side walls.

1,781,636. CANDY. IRMA HUYS VANDER GHEYNST, New York, N. Y. Filed Dec. 13, 1927. Serial No. 239,811. 2 Claims. (Cl. 99—16.)

1. A method of producing a candy which includes as an ingredient, an initially extracted uncooked vegetable juice, consisting in incorporating said juice in the candy by cooking of the same with the candy, and by cooking with the candy and said juice for a predetermined period of time, a substance for concealing the unpalatable flavor without destroying the nourishing or medicinal qualities of the vegetable juice.

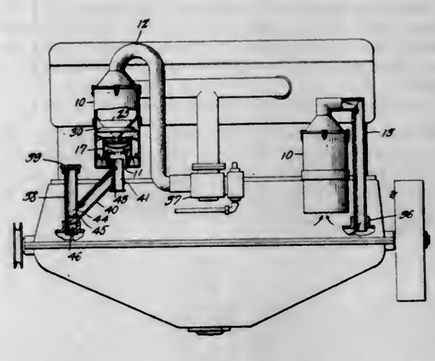
1,781,637. TRACK SANDER. EDWARD J. GILLIGAN, Croton-on-Hudson, and ALLAN H. MCLEAN, Ossining, N. Y. Filed Mar. 5, 1930. Serial No. 433,363. 10 Claims. (Cl. 291—33.)

1. A track sander; including a sand box, a rotatable conveyor extending from said sand box, a sand conduit extending from said box and surrounding said conveyor, a fluid motor associated with said conveyor for rotating



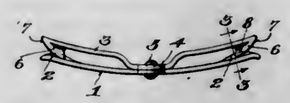
the same, and means for supplying fluid under pressure to the sand in said box, said means comprising fluid passageways in said conveyor.

1,781,638. FLUID AIR CLEANER. JOHN L. GREEN, El Dorado, Ark. Filed June 26, 1929. Serial No. 373,871. 3 Claims. (Cl. 183—31.)



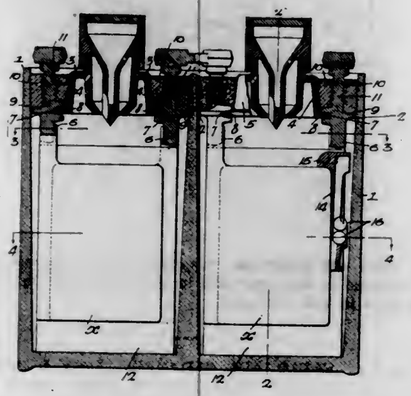
1. An air cleaner comprising a housing having an inlet, an outlet spaced from the inlet and adapted for communication with a source of suction, an inwardly extending flange surrounding the inlet and providing a fluid reservoir between the flange and housing, an air trap located within the housing between the inlet and outlet, spaced walls at the top of the trap defining a fluid distributing chamber, one of said walls having means to divert the fluid into the fluid distributing chamber, and means to direct the fluid from said chamber to the walls of the trap.

1,781,639. COLLAR FASTENER. LOUIS A. HILL, Washington, D. C. Filed Feb. 12, 1930. Serial No. 427,816. 4 Claims. (Cl. 24—81.)



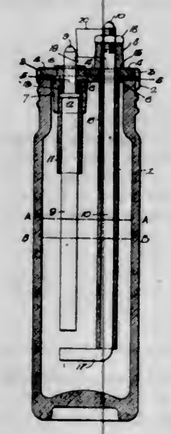
4. In a collar fastener, a front member, a rear member, means carried by the end parts of the members to grip the ends of the collar therebetween, and means to connect the members whereby to enable one of same to be rotatably moved relative to the other so as to release the collar ends.

1,781,640. ELECTRIC BATTERY. WALTER E. HOLLAND, Philadelphia, Pa., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 10, 1925. Serial No. 8,204. 4 Claims. (Cl. 136—80.)



1. A battery cell comprising a container having ledges; a non-conducting cover member supported upon said ledges in the top of said container; and plate groups of opposite polarity interlocked with the edges of said member and suspended therefrom in the container from the ledges.

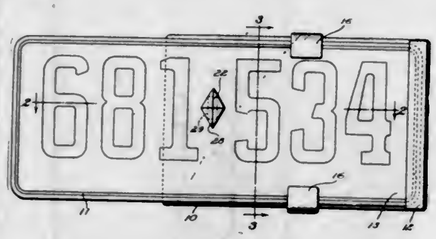
1,781,641. ELECTROLYTIC CELL. WALTER E. HOLLAND, Philadelphia, and LAWRENCE J. PEARSON, Wyncote, Pa., assignors to Philadelphia Storage Battery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 30, 1925. Serial No. 65,856. 8 Claims. (Cl. 175—318.)



1. An electrolytic cell comprising a container, a cover secured thereto, an air-tight rubber gasket intermediate the cover and the container, confined against both lateral and perpendicular expansion, and mineral oil or grease associated with said gasket.

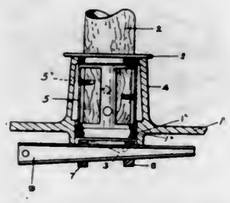
8. An electrolytic cell comprising a container, a cover for the container having an apertured boss projecting from each of the inner and outer surfaces thereof, an electrode extending through each of the bosses, a member threaded into the inner boss for retaining one electrode, and a member threaded onto the second electrode and engaging the outer boss for retaining said second electrode in the cover.

1,781,642. LICENSE-PLATE HOLDER. ALFRED H. HUMPHREY, Salem, N. Y. Filed Apr. 20, 1928. Serial No. 271,536. 4 Claims. (Cl. 40—125.)



1. A license plate holder including a casing, catch members held rigid within said casing, a latch associated therewith and adapted to engage a license plate, additional catch members held rigid within said casing, latches associated with said latter catch members, certain of said latches having clips to engage the edges of the license plate and one of said latches having a strip associated therewith and a member rigid with said strip and adapted to receive the end of the license plate.

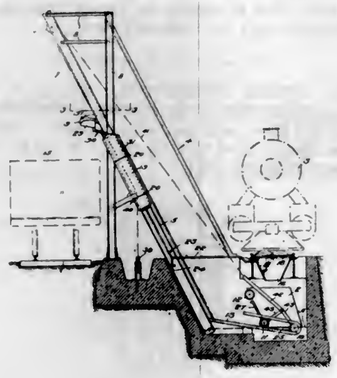
1,781,643. LOCKING DEVICE. GEORGE THOMAS IRWIN, Toronto, Ontario, Canada. Filed Feb. 2, 1928, Serial No. 251,421, and in Canada Mar. 4, 1927. 1 Claim. (Cl. 287—20.)



In a locking device, a base member provided with a cylindrical vertical bearing open at both ends, an annular ratchet extending around the lower opening of the bearing, a cylindrical member fitting in the bearing and turnable therein and provided with an enlarged portion at its upper end engaging the upper end of the bearing, loop members formed integral with the cylindrical member and extending downwardly through the lower open end of the bearing, a wedge key extending through the loop portion and bearing adjacent each end against the aforesaid ratchet surfaces so that when the cylindrical member is turned within the bearing the key ends will be carried circumferentially into wedging contact with the aforesaid ratchet surfaces.

1,781,644. MATERIAL-HANDLING APPARATUS. LOOMIS L. KELLY, Salem, Va. Filed May 4, 1928. Serial No. 275,194. 11 Claims. (Cl. 214—120.)

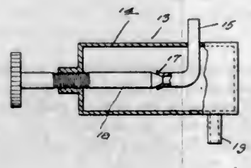
5. In a material handling apparatus, the combination with a pit, of a movable container, mechanism for lowering said container into said pit to receive material and for thereafter elevating and tilting said container to discharge the material outside of the pit, a reservoir for supplying water to the material delivered to the container, means carried by the container for bailing excess water collected in the pit, said means involving a compartment provided with an opening for receiving the water and with discharge means for permitting the water to flow therefrom, said material and said water being discharged from the container and compartment respectively when the container is tilted and being deposited into separate devices, and means for returning the said water to the supply reservoir.



1,781,645. PROCESS FOR MAKING EMULSIFIED COMPOSITIONS. LESTER KIRSCHBRAUN, Leonia, N. J. Original application filed Dec. 2, 1925, Serial No. 72,818. Divided and this application filed May 6, 1927. Serial No. 189,460. 7 Claims. (Cl. 92—21.)

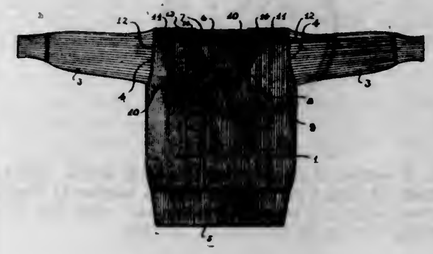
1. A method of making a waterproofed fibrous sheet comprising intimately mixing fibrous pulp with a normally adhesive bituminous waterproofing material dispersed in an aqueous vehicle containing soap and rendered non-adhesive by the incorporation therewith of an agent in quantity less than would substantially impair the waterproofing properties of the bituminous waterproofing material, forming a sheet from said mixture, and drying the sheet to cause the bituminous material to resume its adhesive condition and waterproof the fibers.

1,781,646. REAR-CURTAIN-OPERATING DEVICE. NORMAN V. KREGER, Ben Avon, Pa. Filed May 9, 1929. Serial No. 361,748. 2 Claims. (Cl. 156—28.)



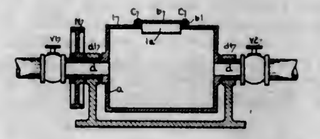
1. In a suction operated device for actuating automobile curtains comprising a control valve including an elongated casing, a tubular elbow, an arm on the elbow projecting through the side wall of the casing, the other arm of the elbow disposed longitudinally in the casing, a valve seat on the free end of the longitudinal arm, and a manually operable valve threaded through one end wall of the cylinder and engageable with the valve seat.

1,781,647. KNITTED SWEATER. ARTHUR M. LOWENTHAL, Rochester, N. Y., assignor to Max Lowenthal & Sons, a Copartnership consisting of Harry M. Lowenthal, Eugene M. Lowenthal, and Arthur M. Lowenthal. Filed Dec. 14, 1927. Serial No. 240,028. 6 Claims. (Cl. 2—90.)



1. In a sweater, the combination with a knitted body formed with a central neck recess in its front and sleeves seamed to this body, of a separately knitted one piece strip stitched to the edges of said recess and extending between the upper portions of the back and of the front of the body of the sweater to the sleeve seams.

1,781,648. PROCESS OF MAKING PAINTS. HENRY H. MAPOTHER, Jr., Louisville, Ky., assignor to Vacuum Process Corporation, a Corporation of Kentucky. Filed Nov. 17, 1928. Serial No. 320,094. 3 Claims. (Cl. 134—39.)

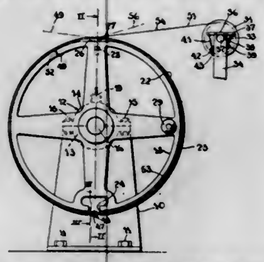


1. The process of mixing paint which consists in subjecting the finely ground dry pigments to a vacuum, mixing a liquid vehicle with the said pigments which have been subjected to the vacuum and uniformly dispersing the pigments in the vehicle while maintaining the vacuum.

1,781,649. METHOD OF UNITING RUBBER AND OTHER SUBSTANCES. LORIN B. SEBRELL, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 26, 1928. Serial No. 273,166. 7 Claims. (Cl. 18—59.)

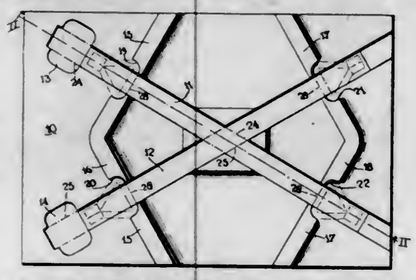
1. A method of securing fibrous materials to metal or to each other which comprises treating a rubber cement with a polymerizing agent, permitting the materials partially to react, coating the surfaces to be secured together with the cement and then heating the body thus formed to cause the rubber and the polymerizing agent completely to react.

1,781,650. METHOD AND APPARATUS FOR MAKING CABLE BEADS. HOMER R. TEEGARDEN, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 26, 1928. Serial No. 272,922. 8 Claims. (Cl. 140—88.)



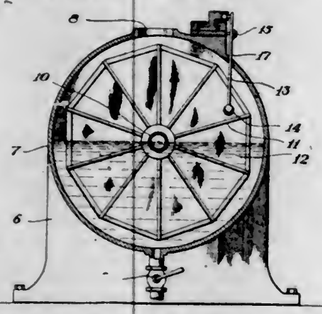
1. A method of constructing tire beads which comprises spirally winding a portion of a tension member to form an endless cable and helically winding the cable with a remaining portion of the tension member.

1,781,651. TEMPLATE FOR ASSEMBLING STRIPS OF TIRE-CHAIN MATERIAL. CLEMENT J. BURKLEY and ELMER G. KIMMICH, Akron, Ohio, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 22, 1927. Serial No. 185,795. 3 Claims. (Cl. 18—2.)



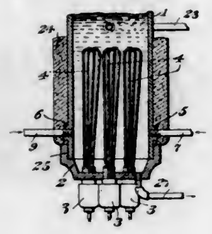
1. A template for assembling strips of tire chain material having anchoring means at the ends comprising a central portion having grooves extending transversely thereof, and raised portions extending transversely toward the grooves and having abutments adjacent thereto, the abutments being adapted to aid in the proper positioning of the anchoring means.

1,781,652. METHOD OF AND MEANS FOR TREATING THE FILTER CAKE PRODUCED FROM CONTINUOUS FILTERS. BERTRAM HURST RYLEY, Moyie, British Columbia, Canada. Filed May 4, 1928. Serial No. 275,147. 2 Claims. (Cl. 210—200.)



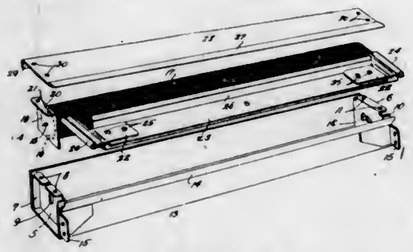
1. An apparatus for treating filter cake produced from continuous filters including a pulp containing tank; a shaft within said tank; a drum carried on said shaft and rotatable in said tank; an oscillating member operable on said tank for striking the head of said drum and setting up transverse vibrations therein as the drum is withdrawn from the pulp; a slide block operable on said tank; resilient connections between said oscillating beating member and said slide block to operate the former from the latter; and operating means for said slide block.

1,781,653. STEAM GENERATOR. EDWIN W. STROM, Woburn, Mass., assignor of one-half to Paul Bilezikian, Watertown, Mass., and one-half to Arakel S. Bilezikian, Newton, Mass. Filed Mar. 13, 1928. Serial No. 261,321. 1 Claim. (Cl. 219—38.)



In a steam generating outfit, a boiler including a body having a cylindrical side wall, the lower end of said body being open, a deep pan shaped plate constituting a head for the open end of the boiler and including a flat lower wall and a cylindrical side wall, the side wall of the plate being provided with an annular seat adjacent to its upper edge for the reception of the lower end of the cylindrical side wall of the body, and a plurality of electric immersion heaters carried directly by the lower wall of said plate and extending into the body, as and for the purpose specified.

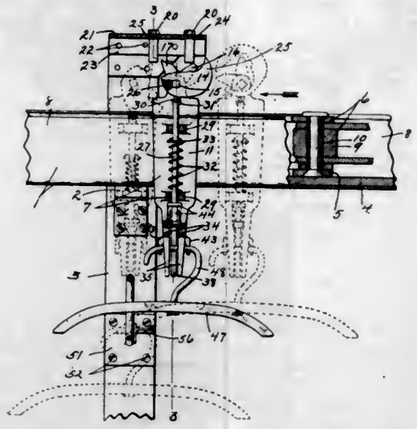
1,781,654. ADJUSTABLE WINDOW SCREEN. GEORGE J. CORPORON, Portland, Me., assignor to The E. T. Burrows Company, Portland, Me., a Corporation of Maine. Filed Aug. 7, 1929. Serial No. 384,045. 5 Claims. (Cl. 156—39.)



5. A roll box for adjustable window screens, comprising a box provided with an end permanently attached and having a slot extending to its edge, a roller having a projecting pintle at the end, an auxiliary end plate having a central bearing carrying said pintle and arranged against the inside of said permanent end with the pintle in said slot.

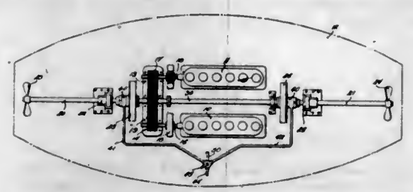
1,781,655. CONVEYER SYSTEM. JAMES T. COWLEY, Syracuse, N. Y., and WILLIAM J. TAYLOR, Winthrop Harbor, Ill., assignors to The Lamson Company, Syracuse, N. Y., a Corporation of Massachusetts. Filed Jan. 6, 1928. Serial No. 244,857. 13 Claims. (Cl. 104—88.)

12. A conveyer system comprising means for conveying an article, unloading stations along the path of travel of the means, a pair of stationary trips spaced longitudinally of the path at each station, a pair of contact members on said means adapted to coact with both the trips at a predetermined station, one member being normally in the trip-coacting position, the other being normally in a non-trip-coacting position, connections between said



members whereby the coaction of the first member with a trip brings the second member into trip-coacting position, and mechanism for releasing the article from said means, which mechanism is actuated solely by the successive coactions of the contact members with the trips at a predetermined station.

1,781,656. FERRYBOAT. PERCY C. DAY, Milwaukee, Wis., assignor to The Falk Corporation, Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 7, 1928. Serial No. 268,168. 5 Claims. (Cl. 115—37.)



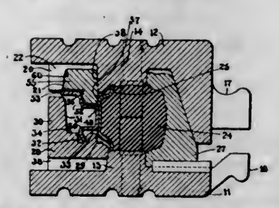
1. A propulsion mechanism for ferry boats comprising a propeller shaft at each end of the boat, a right hand propeller on one shaft, a left hand propeller on the other shaft, a pair of internal combustion engines, and means including speed reduction gearing and cooperating clutches operable to connect both of said engines in driving relation with one or the other of said shafts selectively to thereby drive the boat in one direction or the other.

1,781,657. PNEUMATIC TIRE. ROSS E. JENKINSON, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 16, 1926. Serial No. 95,060. 2 Claims. (Cl. 154—14.)



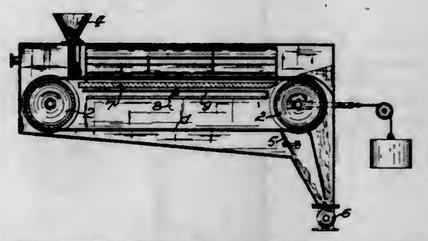
1. A method of fabricating flat built tire casings which comprises providing inner bands of fabric of equal width, shaping the bands to have substantially cylindrical midportions and outwardly inclining the marginal portions, applying molded semi-cured beads of substantially polygonal configuration to the margins, turning the edges of the fabric upwardly about the beads to enclose the latter upon two sides, providing additional plies of fabric of the same width as the first mentioned plies and disposing them in position upon the partially formed carcass, adding a tread element and such other elements as are required to complete the assembly, then stitching the margins of the last mentioned fabric plies downwardly over the beads to complete the enclosure thereof, finally shaping the fabricated tires and subjecting them to vulcanization.

1,781,658. MOLD. PARRY KELLER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 17, 1928. Serial No. 270,676. 5 Claims. (Cl. 18—42.)



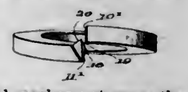
5. A molding device for curing tires supported upon base bands, comprising upper and lower plates, a base ring on the lower plate having an annular groove in its upper surface for accommodating a portion of a felloe adapting member integral with the base band of a tire, and a plurality of other base rings adapted to be employed selectively between plates in conjunction with the first mentioned base ring, for vulcanizing selectively, tires supported on base bands provided with adapting members, and tires supported on base bands free from such adapting members.

1,781,659. PROCESS FOR THE THERMAL TREATMENT OF PULVERULENT MATERIAL. FRIEDRICH BARTLING, Munich, Germany. Filed Feb. 14, 1929, Serial No. 340,004, and in Germany Feb. 2, 1928. 2 Claims. (Cl. 202—5.)



1. The process for the thermal decomposition of solid carbonizable material in finely divided form, which comprises maintaining said material in surface adhesion on a moving support by an electrostatic charge thereon, and subjecting the finely divided material to destructive distillation while in adhesion to said moving support.

1,781,660. LOCK WASHER. GLEN A. AIKEN and JOSEPH R. ROYSTON, Pittsburgh, Pa. Filed Jan. 14, 1929. Serial No. 332,539. 8 Claims. (Cl. 151—36.)



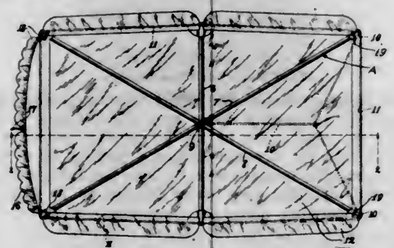
2. A split helical washer not more than 360° in circumference having one of its work engaging faces unaltered

but the other work engaging face at one end having an abutment interrupting a prolongation of the helical surface of the opposed unaltered work engaging face.

1,781,661. PROCESS OF REGENERATING USED COOKING FATS. MILLARD BRANDT, Tamaqua, Pa., assignor to Darco Corporation, Wilmington, Del., a Corporation of Delaware. Filed Oct. 25, 1926. Serial No. 144,037. 1 Claim. (Cl. 87—12.)

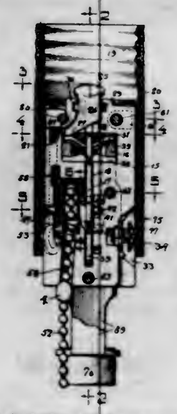
In periodic regeneration of cooking fats and oils by means of active carbon, the process which comprises percolating a batch of used fat or oil in the liquid state through a body of coarse-grained, highly activated, adsorbent carbon, maintaining the carbon during said percolation at a temperature near that of boiling water, then exposing said carbon to the air while at about the same temperature and thereafter percolating therethrough another batch of used fat or oil.

1,781,662. KITE. ALFRED B. CABRERA, Chicago, Ill., assignor to George A. Youngdahl, Chicago, Ill. Filed Oct. 25, 1928. Serial No. 314,933. 1 Claim. (Cl. 244—22.)



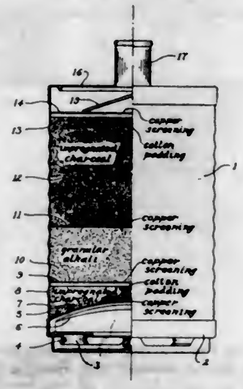
A kite comprising a sheet of material secured to a frame formed of a plurality of intersecting rods secured at the point of intersection by a pin, a connecting cord extending around the ends of said rods to complete the frame, a separate cord secured to the adjacent ends of a pair of said rods, an ornamental depending strip secured to said separate cord, and a tail cord secured to said separate cord adjacent the center thereof.

1,781,663. LAMP SOCKET. JOHANNES R. CARLSON, Hartford, Conn., assignor to The Arrow Electric Company, Hartford, Conn., a Corporation of Connecticut. Filed Apr. 14, 1925. Serial No. 23,021. 15 Claims. (Cl. 117—354.)



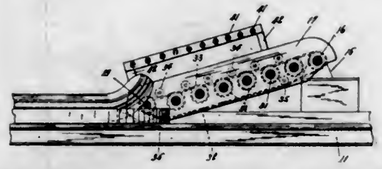
1. An electric switch for a lamp socket or the like, comprising a spring actuated oscillating switch bar, a reciprocating peak cam for controlling the throw of said bar, an eccentric for imparting motion to said cam, and a ratchet mechanism for rotating the eccentric.

1,781,664. PROCESS AND APPARATUS FOR PURIFYING AIR. PAUL O. ROCKWELL, Edgewood Arsenal, Md. Filed July 2, 1926. Serial No. 120,073. 10 Claims. (Cl. 23—4.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)



1. In a process of treating a mixture of gases containing toxic gases including cyanogen chloride, withdrawing moisture from said mixture and then passing the residual gas through dry, granular, inorganic, alkaline material.

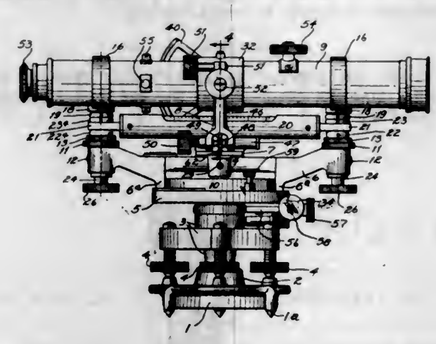
1,781,665. APPARATUS FOR REMOVING ARTICLES FROM MOLDS. RAY D. HULSLANDER, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 1, 1929. Serial No. 351,609. 14 Claims. (Cl. 18—2.)



7. The combination with a conveyor for vulcanizing molds for making annular flexible rubber articles of means for stripping said articles from said molds, comprising a continuously rotating stripping element extending transversely of the conveyor and adapted to be engaged by the advancing end portion of said article in a section of said mold, said element rotating upwardly with respect to the engaged surface of said article to pull it from the mold, the central portion of said element being of such rough or grooved formation as to have substantial purchase on the article at the leading and following end portions thereof to strip these portions of the article from the mold, and the portions of said element at either side of the central portion being comparatively smooth for stripping the intermediate portions of said article from the mold.

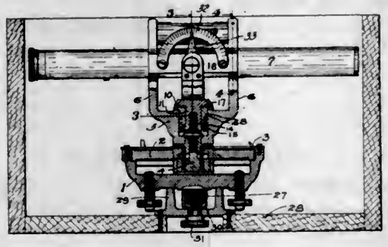
1,781,666. TRANSIT LEVEL. FRANK MIHALYI, St. Louis, Mo., assignor to The David White Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 6, 1926. Serial No. 153,010. 21 Claims. (Cl. 33—73.)

1. In a surveying instrument, a cross bar, individual two-part bearings for a telescope mounted on each end of said cross bar, the parts of said bearings being separable by relative horizontal movement.



13. In a surveying instrument, a cross bar, a central vertical rotatable shaft extending above said cross bar, a telescope carried on said shaft and rotatable horizontally therewith independently of said cross bar, and spaced telescope supports on said cross bar with their upper ends below the level of the barrel of said telescope, when the latter is horizontally disposed on said shaft, whereby the telescope may be swung over said supports without removal from said shaft.

1,781,667. SURVEYING INSTRUMENT. FRANK MIHALYI, St. Louis, Mo., assignor to The David White Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 3, 1928. Serial No. 251,650. 7 Claims. (Cl. 33—73.)

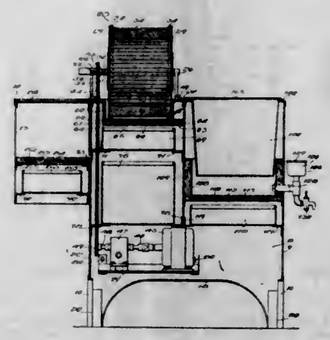


1. In a surveying instrument, a base, a member mounted in said base, a rotatable vertical shaft having a downwardly facing shoulder, a bearing on said member for engaging said shoulder to support said shaft, a spring yieldingly holding said shoulder to said bearing, horizontally spaced brackets carried by said shaft, a telescope mounted in said brackets and tiltable thereon in a vertical plane, and horizontally spaced rigid elements on said member for supporting said telescope in a horizontal plane when said telescope and elements are aligned.

1,781,668. FIBROUS SHEET MATERIAL AND PROCESS OF MAKING SAME. JAMES C. PEABODY, Boston, and ALFRED BROWN, Everett, Mass.; E. Louise Peabody, executrix of said James C. Peabody, deceased, assignors, by direct and mesne assignments, to Frank B. Hopewell, Newton, Mass., as trustee. Filed July 23, 1929. Serial No. 380,456. 20 Claims. (Cl. 92—21.)

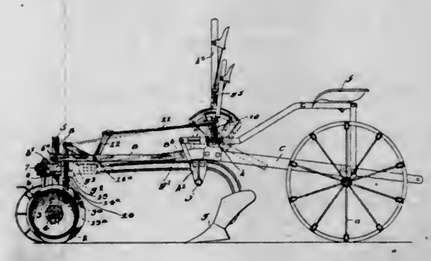
4. The process of treating natural vegetable cellulose fibres which consists in incompletely converting the fibres into cellulose xanthate to render the fibres swollen, gelatinous and insoluble in water or dilute caustic soda.

1,781,669. COOKING MACHINE. MARTIN C. PETERSEN, Ipswich, S. Dak. Filed Oct. 17, 1927. Serial No. 226,749. 6 Claims. (Cl. 219—19.)



4. In a machine of the class described, the combination of a rotatable cylindrical roasting drum for loosely holding Frankfurters, a heater unit underlying a part of said drum, said unit comprising a completely closed metallic casing having a curved surface conforming to the contour of said drum and containing the heat generating means, a food storage drawer, said drawer being disposed beneath said heater unit and extending beyond it under the remainder of the lower side of said drum, means for rotating said drum to thereby evenly expose the Frankfurters to said heater, and means for disconnecting said drum from said rotating means and for stopping it to permit discharging the Frankfurters into said drawer.

1,781,670. RIDGE SPLITTER. JAMES A. SMETHERS and WILLIAM ELLIOTT, Beatrice, Nebr., assignors to Dempster Mill Manufacturing Company, Beatrice, Nebr., a Corporation of Nebraska. Filed Jan. 29, 1929. Serial No. 335,804. 10 Claims. (Cl. 97—243.)

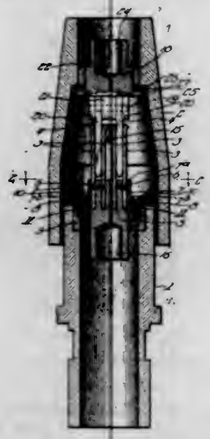


1. Equipment for adapting a two row lister for ridge splitting, embodying lister supporting and guiding wheels, a carriage for said wheels and cooperating guiding and controlling mechanism whereby the carriage and its said wheels are held against movement forwardly and rearwardly and are held to straight line vertical movement to and from operative position.

1,781,671. POTHEAD DEVICE FOR USE ON ELECTRICAL CIRCUITS. PAUL F. WILLIAMS, Chicago, Ill., assignor to G & W Electric Specialty Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 20, 1920, Serial No. 360,267. Renewed Sept. 24, 1928. 12 Claims. (Cl. 173—353.)

3. In a device of the class specified the combination of a body member provided at its upper end with a ring, a

supporting member detachably secured to said ring and contact jaws secured to said supporting member, by



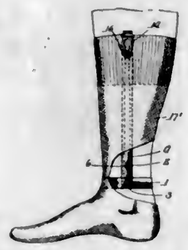
means of a flange extending laterally from said contact jaws and screws passing through said flange and also into said ring.

1,781,672. CHOCOLATE MATERIAL AND METHOD OF MAKING SAME. EARL B. WORKING, Manhattan, Kans. Filed July 16, 1930. Serial No. 468,463. 13 Claims. (Cl. 99—11.)

1. A chocolate mass adapted for coating cores of confectionery, comprising chocolate and a small percentage of added lecithin, the percentage of lecithin being sufficient to at least retard "graying."

3. In the art of making confectionery, the herein described improvement which comprises incorporating, at any stage of the manufacture, with confectionery material including chocolate carrying such amounts of fatty material as to be normally subject to "graying," a sufficient percentage of lecithin to retard "graying."

1,781,673. GARTER. BENZION WOLF, Chicago, Ill. Filed Mar. 10, 1930. Serial No. 434,571. 2 Claims. (Cl. 214—6.)



1. In a garment support of the class described, a flexible band adapted to be applied above and to rest upon the ankle of a wearer, a supporting means secured to and extending upwardly from said flexible band, said supporting means including an elongated fabric strip provided with an elongated pocket and a reinforcing member inserted within said pocket for lending rigidity to said supporting means, closure means extending across the upper portion of said pocket at a point adjacent the upper extremity of the reinforcing member to prevent any appreciable relative movement between the fabric strip and the reinforcing member, and a garment fastening device secured to the upper extremity of said supporting means to receive the garment to be supported.

Patents Nos. 1,781,674 to 1,782,393

CARNEGIE LIBRARY OF ATLANTA

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office

Vol. 400—No. 3 TUESDAY, NOVEMBER 18, 1930 Price—$10 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscription, $10.00 per annum; including annual indexes, $11.50; single numbers, 25 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or concerning TRADE-MARKS, PRINTS, and LABELS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

CONTENTS

	Page
ISSUE OF NOVEMBER 18, 1930	461
EXECUTIVE ORDER—FACILITATING THE CONSIDERATION OF APPLICATIONS FOR PLANT PATENTS	461
INTERNATIONAL CONVENTION—ADHESION—FRANCE, TUNIS	461
DESTRUCTION OF FILES—ABANDONED APPLICATIONS—ACT OF APRIL 11, 1930	461
APPLICATIONS UNDER EXAMINATION	462
DECISIONS OF THE U. S. COURTS—	
In re Wietzel and Michael	463
Reynolds Spring Co. v. L. A. Young Industries, Inc.	464
PATENT SUITS	466
ADJUDICATED PATENTS	468
DISCLAIMERS	468
ADVERSE DECISIONS IN INTERFERENCE	468
TRADE-MARKS PUBLISHED (253 APPLICATIONS)	469
TRADE-MARK REGISTRATIONS GRANTED	500
TRADE-MARK REGISTRATIONS RENEWED	507
LABELS	510
PRINTS	510
REISSUES	511
DESIGNS	513
PATENTS GRANTED	524

Issue of November 18, 1930

Trade-Marks	121	No. 277,530 to No.	277,650,	inclusive.
T. M. Renewals	97			
Labels	24	No. 38,247 to No.	38,270,	inclusive.
Prints	16	No. 12,808 to No.	12,823,	inclusive.
Reissues	7	No. 17,870 to No.	17,876,	inclusive.
Designs	59	No. 82,537 to No.	82,595,	inclusive.
Patents	720	No. 1,781,674 to No.	1,782,393,	inclusive.
Total	1,044			

EXECUTIVE ORDER

Facilitating the Consideration of Applications for Plant Patents

[No. 5,464]

I, Herbert Hoover, President of the United States of America, under the authority conferred upon me by act of May 23, 1930 (Public No. 245), entitled "An act to provide for plant patents," and by virtue of all other powers vested in me relating thereto, do hereby direct the Secretary of Agriculture: (1) to furnish the Commissioner of Patents such available information of the Department of Agriculture, or (2) to conduct through the appropriate bureau or division of the department such research upon special problems, or (3) to detail to the Commissioner of Patents such officers and employees of the department, as the Commissioner may request for the purposes of carrying said act into effect.

HERBERT HOOVER.

The White House, October 17, 1930.

International Convention—Adhesion

France, Tunis

This Office has been notified by the State Department of the receipt of a notice from the Swiss Legation that the Government of France has adhered to the Convention of the Union for the Protection of Industrial Property, as revised at The Hague on November 6, 1925, and has also adhered to that convention for the French zone of the Shereefian Empire and for Tunis, the adherences to take effect October 20, 1930.

THOMAS E. ROBERTSON,
Commissioner of Patents.

DESTRUCTION OF FILES
ABANDONED APPLICATIONS
ACT OF APRIL 11, 1930

DEPARTMENT OF COMMERCE,
U. S. PATENT OFFICE, *Washington, Oct. 20, 1930.*

(ORDER NO. 3,166)

Section 6 of the act of April 11, 1930 (393 O. G. 1031-2) reads as follows:

The Commissioner of Patents is hereby authorized to annually destroy or otherwise dispose of all the files and papers belonging to all abandoned applications which have been on file for more than twenty years.

(1) If any patentee calls attention within 60 days from the date of this order to an abandoned application referred to in his patent, the file of that abandoned application will be retained in this Office.

(2) If any member of the public similarly calls attention to a patent having reference to such an abandoned application, the file of that application will be retained.

(3) Except as indicated in paragraphs (1) and (2), where any applicant or the assignee of any application wishes to obtain the file of an application which has been abandoned for more than 20 years, such application will be sent to him if request therefor is made within 60 days from date of this order, provided that if request is made by the applicant for such file and the record shows an assignment thereof, the request must be accompanied by the assent of the assignee.

Except as above indicated, steps will be taken to destroy the files of all abandoned applications which have been on file longer than the 20-year period fixed by statute.

THOMAS E. ROBERTSON,
Commissioner.

Condition of Applications Under Examination at Close of Business November 7, 1930

(Total number of applications awaiting action, excluding Trade-Mark Division, 113,110; Trade-Mark Division, 1,430. Oldest new case, Jan. 8, 1930; oldest amended, Jan. 11, 1930.)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	Mar. 11	Mar. 21	1,173
126	2. HADEN, C. F., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Velocipedes.	Feb. 14	Feb. 6	1,819
331	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	Mar. 10	July 16	1,324
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	Apr. 2	Apr. 1	1,314
108*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	Mar. 12	Mar. 12	1,359
318	6. LEWERS, A. M., Carbon Chemistry	Jan. 20	Jan. 23	2,439
106	7. JARBOE, C. G., Optics; Photography	Jan. 25	Jan. 25	2,662
133	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Mar. 11	Mar. 11	1,740
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Apr. 11	Apr. 16	1,604
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Mar. 19	Mar. 26	1,574
148*	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Apr. 15	Apr. 24	960
380	12. HENRY, C. C., Machine Elements	Mar. 11	Mar. 18	1,621
154*	13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Mar. 17	Mar. 17	1,420
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	Mar. 7	Mar. 12	1,423
329	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Jan. 18	Jan. 18	3,040
242*	16. SPENCER, C. J., Telegraphy; Telephony	Mar. 11	Apr. 10	1,239
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Feb. 8	Feb. 11	1,684
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Mar. 21	Mar. 24	1,484
236	19. HULL, A. S. (Acting), Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Feb. 1	Feb. 1	2,641
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking	Mar. 10	Mar. 7	1,424
212	21. THOMPSON, T. J., Textiles; Cloth Finishing	Mar. 26	May 16	897
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Mar. 15	Apr. 9	1,556
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Jan. 10	Jan. 24	1,158
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Feb. 8	Mar. 7	1,144
202*	25. BLAKELEY, C. F., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Feb. 11	Feb. 18	1,656
228*	26. HODGES, J. S., Electricity, Generation; Motive Power	Feb. 24	Mar. 8	1,184
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Mar. 7	Mar. 7	1,438
225	28. BENSON, A. R., Internal-Combustion Engines	Jan. 25	Feb. 1	2,201
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	May 28	June 16	605
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Mar. 20	Aug. 18	1,005
312	31. HOLMES, W. N., Distillation; Gas, Heating and Illuminating; Mineral Oils	Jan. 13	Jan. 11	2,898
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Apr. 30	Apr. 23	1,463
152	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	Apr. 5	Apr. 15	2,657
304	34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	Apr. 4	Apr. 23	984
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	June 6	June 17	1,361
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	Mar. 10	Mar. 11	2,359
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Feb. 14	Feb. 27	2,014
145	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Feb. 7	Feb. 8	1,202
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Feb. 24	Mar. 3	1,858
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	Jan. 29	Mar. 15	3,424
125	41. WHITNEY, M. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	Apr. 14	Apr. 10	1,132
223*	42. CUTTING, H. O., Electric Signaling	Mar. 11	Mar. 4	1,740
124*	43. NASH, P. N., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Mar. 7	Mar. 8	1,836
253	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	Feb. 10	Feb. 12	2,262
379	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	Feb. 1	Jan. 21	2,509
233	46. TAYLOR, M., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Mar. 12	Mar. 17	1,440
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	Feb. 11	Mar. 14	2,423
212*	48. ROEPKE, O. B., Electricity, General Applications	Feb. 10	Feb. 12	1,304
239	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	Apr. 25	June 3	1,625
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Jan. 16	Jan. 18	3,066
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Feb. 8	Feb. 8	2,475
144	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Mar. 24	Apr. 4	2,169
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	May 20	May 26	1,112
241	54. WAITE, W. E., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Jan. 20	Jan. 20	3,040
102	55. BOWEN, S. T.—{Bread, Pastry, and Confection Making; Cutlery	Aug. 9	Aug. 9	332
	{Designs	Oct. 13	Oct. 22	272
309	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Feb. 12	Feb. 17	2,338
257*	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Mar. 8	Mar. 29	1,070
270*	58. DOWELL, E. F., Abrading; Typewriting	Jan. 29	Feb. 1	1,592
315	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Cement and Lime; Hides, Skins, and Leather; Fuel	Mar. 7	Mar. 8	1,908
213*	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	Jan. 13	Jan. 15	2,355
269	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Horology; Time-Controlling Apparatus.	Jan. 8	Jan. 15	2,742
245*	62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Baggage; Package and Article Carriers	Jan. 15	Jan. 14	2,841
300	63. WINKELSTEIN, A. H., Bleaching and Dyeing; Explosive, Pyrotechnic, and Match Compositions; Oils, Fats, and Glue; Preserving; Sugar, Starch, and Carbohydrates.	Feb. 7	Feb. 7	2,520
163	Trade-Marks, Labels, and Prints: F. A. RICHMOND.—{Trade-Marks	Oct. 8	Oct. 24	1,152
	{Labels and Prints	Oct. 8	Oct. 24	278

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE WIETZEL AND MICHAEL

No. 2,229. Decided April 14, 1930

[39 F.(2d) 669]

PATENTABILITY—PROCESS OF MANUFACTURING HYDROCYANIC ACID.

Claims for a process of manufacturing hydrocyanic acid *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Messrs. Hauff & Warland and *Mr. William E. Warland* for Wietzel and Michael.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

HATFIELD, *J.:*

This is an appeal from the decision of the Board of Appeals affirming the decision of the Examiner denying appellant's claims—1 to 5, inclusive—for an alleged invention relating to a process of manufacturing formamid and hydrocyanic acid.

The claims in issue read as follows:

1. The process of manufacturing formamid and hydrocyanic acid which consists in exposing alkyl formate vapor and ammonia to elevated temperatures in the presence of a contact mass.

2. The process of manufacturing hydrocyanic acid which consists in exposing alkyl formate vapor and ammonia to a temperature of between about 200 degrees and 500 degrees centigrade and in the presence of a contact mass of a dehydrating character and while contacting the gases with said mass sufficiently long to cause dehydration to hydrocyanic acid.

3. The process of manufacturing formamid and hydrocyanic acid which consists in passing alkyl formate vapor and ammonia in a quantity exceeding the calculated one, over a contact mass at an elevated temperature.

4. The process of manufacturing formamid and hydrocyanic acid which consists in passing alkyl formate vapor and ammonia and an inert gas over a contact mass at an elevated temperature.

5. The process of manufacturing hydrocyanic acid which consists in passing a mixture of vaporized alkyl formate and formamid and ammonia over a contact mass of a dehydrating character, at a temperature of between about 200 degrees and 500 degrees centigrade and at conditions causing the formation of hydrocyanic acid.

The claims were rejected on the following references: Textbook of Organic Chemistry, Holleman-Walker, 1920, pages 100, 127, and 349; Chemical Society Journal, vol. 1, 1863, pages 73–74; Organic Chemistry, Richter, vol. 1, pages 227, 228, and 229; Handbook of Modern Chemistry, Tidy, page 762.

It appears from appellants' specification and claims that, by the alleged novel process, formamid, hydrocyanic acid, or a mixture of these substances, may be produced by exposing alkyl formate and ammonia to elevated temperatures in the presence of a catalyst; and that, if a mixture is obtained, the mixed products may be separated.

In view of the fact that the Board of Appeals has reviewed the decision of the Examiner in the light of the criticisms made of it by counsel for appellants, we think it may be helpful to quote rather extensively from its decision.

The Examiner cited the text book on Organic Chemistry by Holleman-Walker, as disclosing on page 103, that nitriles can be formed by passing esters mixed with ammonia over alumina and on page 127 that amides, which will be intermediates formed by treating the esters, as on page 103, can be converted into nitriles by heating (distilling) with a dehydrating agent, phosphorous pentoxide. See also Richter's Organic Chemistry, vol. 1, page 266 (3). That hydrocyanic acid may be considered a nitrile of formic acid is disclosed on page 349, of Holleman-Walker.

From these statements the Examiner deduces that, as alkyl formate is a formic ester and hydrocyanic acid is the nitrile of formic acid, the heating of alkyl formate vapor with ammonia over alumina would produce formamid as an intermediate product and that the formamide will be converted into hydrocyanic acid by treating with a dehydrating agent such as phosphorous pentoxid.

The brief states that the only ester disclosed by the text book is an acetic acid ester and esters of higher members of the aliphatic series and that it could not be foreseen that the reaction could be carried out with esters of formic acid. While formic acid is the first member of the group of fatty acids, of which acetic acid is a higher member, it is contended that formic acid and its derivatives in most cases fail to conform to the characteristics of the series. It is to be noted that in the text book cited, the reaction is not limited to an ester of acetic acid or any other of the group of fatty acids, but is stated broadly with reference to acid amides, and at the bottom of page 127, acid amides are again mentioned and *formamide* is referred to as the only one which is liquid. It seems clear that the disclosure was not intended to be limited to acetamid nor to exclude formamide. In Richter's Organic Chemistry, vol 1, page 227, it is stated that formamide may be formed by heating formic ester with alcoholic ammonia to 100° and also that heated rapidly with $P_2 O_5$ it liberates HCN(hydrocyanic acid). The Examiner further cites the Journal of the Chemical Society—vol. 1, 1863, pages 73, 74, as disclosing the making of formamide by heating ethyl formate with dry ammonia at 195° C. In view of these disclosures we are of the opinion that there is every reason to believe that the statement in Holleman-Walker text book applies to esters of formic acid as well as to other members of the fatty acid group.

The brief then attacks the statement that hydrocyanic acid may be considered as the nitrile of formic acid, and cites a text book by Meyer-Jacobson as expressing a doubt whether hydrocyanic acid is to be represented by the nitrile formula $H-C{\equiv}N$ or by the isonitrile formula—

$$H-N{=}C{<} \text{ or } H-N{=}C.$$

In addition to the statement on page 349 of Holleman-Walker we find the same statement in Richter's Organic Chemistry on pages 228, 229, and in Handbook of Modern Chemistry by Dr. Meymott Tidy, page 762, and, in view thereof, we consider these disclosures sufficient to raise a presumption at least that the reactions disclosed would apply to formamid and to hydrocyanic acid as the nitrile of formic acid, and, where there is no real reason to suppose that the result would not be produced there is no invention in trying it and finding out that the process is successful.

It is contended that the references cited by the tribunals of the Patent Office "do not constitute anticipations;" that it is evident from the decisions below that the Examiner and the Board of Appeals were in doubt as to whether the process disclosed in appellants' application involved invention; and that the claims in issue were rejected on the presumption only that they were anticipated by the references. It is further contended that the decisions below rest upon two assumpions, namely: first, that hydrocyanic acid is a nitrile of formic acid; and, second, that formic acid had all the attributes and characteristics of other members of the "fatty acid" group, and that, as the other members of the group could be used in the formation of acid amides and nitriles, invention was not involved in discovering that—

in the case of formic acid an analogous reaction, viz.: the process of producing formamid or hydrocyanic acid or both by exposing alkyl formate and ammonia to elevated temperatures, can be carried out;

and that neither of these assumptions is sufficiently well founded to warrant the rejection of appellants' process claims.

Several authorities on the subject agree that hydrocyanic acid is the nitrile of formic acid, whereas some contend that it is an isonitrile. In view of the

fact that the authorities are not in entire harmony, it is argued that the Board of Appeals erred in adopting the views of one group and ignoring the views of the other.

Counsel for appellants, however, do not rest their case upon this proposition.

Granting, as counsel do, for the purpose of discussion, that hydrocyanic acid is the nitrile of formic acid, it is contended, nevertheless, that the claimed process is novel. We quote from the brief of counsel for appellants:

> • • • First it splits off alcohol from the starting material and produces formamid and then water is split off from the formamid and hydrocyanic acid produced. This fact alone in appellants' opinion marks a distinct advance in the art. The references do not show this. There is nothing in the reference to indicate that one catalytic substance would fulfill both of these requirements.

Many other arguments are advanced in the brief of counsel for appellants in denying the soundness of the decision below.

In cases involving intricate and highly technical questions, such as those presented in the case at bar, and especially in the absence of evidence of those expert in the art, concurring decisions of the Patent Office tribunals will not be disturbed, unless it appears that they are manifestly wrong. *In re Beswick*, 16 App. D. C. 345, 91 O. G. 1436.

We have given the issues careful study in an effort to determine whether, as counsel for appellants contend, the decision of the Board of Appeals is clearly erroneous. We are unable to hold that such is the case.

The Examiner and the Board of Appeals have discussed the issues and the references in detail. In view of the fact that we concur in the conclusion of the Board, we deem it unnecessary to contribute to the discussion of the technical features of the case.

We are unable to agree with the contention that the decision of the Board of Appeals, in rejecting appellants' claims, was predicated on either presumtions or assumptions. It is true that, in referring to the authorities cited as references, the Board said:

> We consider these disclosures sufficient to raise a presumption at least that the reactions disclosed would apply to formamid and to hydrocyanic acid as the nitrile of formic acid.

However, the meaning and purpose of this observation is made clear by the language immediately following:

> And, where there is no real reason to suppose that the result would not be produced there is no invention in trying it and finding out that the process is successful.

The decision is affirmed.

Affirmed.

U. S. Circuit Court of Appeals—Sixth Circuit

REYNOLDS SPRING CO. *v.* L. A. YOUNG INDUSTRIES, INC.

Nos. 5,215, 5,216. Decided December 3, 1929

[36 F.(2d) 150]

1. PATENTABILITY—INVENTION.
   The utilization of well known expedients in a more or less obvious solution of the problems which confronted the patentees *Held* not invention.
2. SAME—SAME.
   Patent No. 1,428,701, and Patent No. 1,439,891, relating to spring constructions *Held* invalid for want of invention.
3. SAME—SAME.
   Patent No. 1,058,285 for an S type of base frame in spring upholstery construction *Held* valid and infringed.
4. PATENTS—INFRINGEMENT.
   Mere improvement upon a patented device without departure from the basic concept and mode of operation does not avoid infringement.

APPEAL and cross-appeal from the District Court of the United States for the Eastern District of Michigan; Benjamin C. Dawkins, judge.

Patent infringement suit by the L. A. Young Industries, Incorporated, against the Reynolds Spring Company. From the decree rendered, both parties appeal. Affirmed in part, and in part reversed and remanded with instructions.

Mr. Otto F. Barthel and *Mr. Walter F. Murray* (*Messrs. Barthel, Flanders & Barthel* on the brief) for Reynolds Spring Co.

Mr. Otis A. Earl and *Mr. Melville Church* (*Messrs. Chappell & Earl*, on the brief) for Young Industries.

Before DENISON, MOORMAN, and HICKENLOOPER, Circuit Judges

HICKENLOOPER, *C. J.:*

Three patents are involved in the present appeal and cross-appeal. Patent No. 1,058,285, issued to L. A. Young, April 8, 1913, covers the use of the S type of base frame, or marginal strip on the base frame, in spring upholstery construction such as seats for automobiles. Claims 1, 2, 3, 5, and 7 are in suit and were held valid and infringed. Patent No. 1,428,701, issued to Otto A. Michelis, September 12, 1922, claims in combination with such spring structures a tie loop, having arms terminating in hooks with relatively short bills, the bight of one hook extending beyond the other to facilitate engagement in connecting the springs. Both claims of the patent are in suit and were held valid and infringed. Patent No. 1,439,891, issued to J. T. Holtfoth, December 26, 1922, so far as this action is concerned, covers telescoping the ends of the base frame, of S cross section such as is disclosed in the Young patent, so as to form an endless frame with continuous channels. Claims 2, 3, 6, 7, and 8 are in suit and were held not infringed.

[1, 2] After careful consideration and study we feel constrained to hold the claims in suit of both the Michelis and the Holtfoth patents invalid for want of invention, in that they but utilize well-known expedients in the more or less obvious solution of the problems confronting the patentees. *Concrete Appliances Co.* v. *Gomery*, 269 U. S. 177, 184, 46 S. Ct. 42, 70 L. Ed. 222; *Hollister* v. *Benedict & Burnham Mfg. Co.*, 113 U. S. 59, 73, 5 S. Ct. 717, 28 L. Ed. 901; *Grand Rapids Refrigerator Co.* v. *Stevens*, 27 F.(2d) 243 (C. C. A. 6).

The sole element of novelty claimed for the tie loop of Michelis lies in having one bight extend beyond the other. This construction is common in numerous other uses, both differing and analogous,

CARNEGIE LIBRARY OF ATLANTA

and when confronted with the problem of securing greater facility in mounting the loops, it required no more than skillful selection from known devices to attain the desired end. Such use may have had novelty in connection with spring upholstery construction, but such novelty of use in a particular art does not alone justify a patent. Nor is it apparent that any advantage is gained in claiming a tie loop of this specific design as in combination with the springs to be joined. Once placed, the tie loop but performs its usual and well-recognized function and the useful purpose of the bights of different length has been completely fulfilled. The patentee was refused a patent on the loop as such and whether claiming it in combination with the other elements of the spring structure results in aggregation or in a true combination, we are convinced that it does not disclose the exercise of invention.

The same conclusion is applicable to the Holtfoth patent. Given the Young S type base frame, then old, the only problem which confronted Holtfoth was that of securing a firm union of the two ends of frame after bending to the shape desired. Overlapping or telescoping the two ends of metal parts to be joined, whether such parts be tubular, flat, or of other shape, is one of the commonest and most used means of securing union in every art. To produce the Holtfoth joint, with such slight adaptation as was necessary, required no more than mechanical skill and familiarity with common practice and expedients. After union the purpose of the telescoping was subserved. If there was no invention in that, such invention is not found in enumerating, as elements in combination, the other features of the spring construction.

The prior art discloses nothing precisely like the S base frame construction of the patent to Young, No. 1,058,285. The base frames of spring seat cushions were at first made of wood to which the upholstery cover was tacked. This necessitated a binding or tacking strip and by natural evolution the art soon developed the use of a groove into which the upholstery cover was laid and in which a metal or wooden binding strip was sunk, securing the cover. Patents to Henry, No. 941,875, and to Hale, No. 734,701, are examples. The use of a tacking insert, in which a wooden or fiber strip was held in a metal groove, was also developed. Kilburn & Budd, No. 897,541; Budd, No. 944,662; and Hale, No. 884,730. In other patents the edge of the upholstery cover was wrapped around a clamping strip and this strip was then inserted into a flat groove at right angles to the direction of tension or in such manner that it would not slide out. The upholstery cover was thus hooked in its channel. Foster, No. 1,020,407; Ostrander, No. 847,023. In several patents, also, use had been made of the single U-channel for clamping woven metal fabric (Fisher, No. 771,866) or springs (Van Cise, No. 804,352), against tension; and of the double U-strip, or a flat strip folded twice upon itself, for the purpose of holding the edges of leather, in one case, and of window shade fabric, in another, in oppositely disposed grooves. Lieb, No. 233,154; Michel, No. 241,689; compare, also, Norton, No. 304,350. In each of these last, however, the clamping was produced by flat surface tension when the double U-strip was heavily compressed. The patent to Brink, No. 1,061,218, is also suggestive, in that the upholstery cover is held by a drawstring in the upper groove of an S-frame and the springs in the lower groove.

[3] It remained for Young, however, to conceive the idea of using a bead upon the edge of the cover and of confining this within the outer groove of the S-frame, and the adjacent springs within the inner groove, by merely compressing the flanges. The cover is thus held by the narrowed opening rather than by surface friction and the necessity of all tacking is avoided. The nearest approach to this idea of a single S-frame having this double function is, we think, found in the patent to Young, No. 1,014,736, in which a similar S-strip is used to clamp the oppositely disposed edges of parallel rows of springs in a spring seat construction, or in the patent to Brink, supra. But a number of problems were presented in devising the S base rim which did not confront Young in the patent just mentioned. In devising the base rim it was necessary to protect the upholstery cover against cutting or contact with sharp edges. It was necessary also to confine it permanently within its channel against varying stresses and strains. This last Brink did not accomplish as well. These problems Young solved by the apparently simple, but we think inventive, thought of placing the bead of the cover in the lower and outwardly facing groove, whence the cover passed over the curved portion of the S, and the spring edges in the upper or inwardly facing groove, and merely clamping the edges of the two flanges to secure the cover and springs when so placed. The rim so devised has all of the advantages of the much heavier and much more expensive wood frames and the great utility of firmly and permanently holding the upholstery cover without tacking and protecting it against cutting and wear. The use of this frame has been highly successful commercially. A large number of other devices have been designed apparently with the idea of securing advantage of its simplicity and utility without infringing the patent itself. Up to the present alleged infringement, the patent has been generally respected in the art. We have no doubt that the patent involved invention, was not anticipated, and is infringed.

[4] The strongest argument on behalf of the defendant-appellant is that in view of the prior known uses of the double U-strip, offering oppositely disposed grooves for clamping fabric or springs or other material, no invention lay in the concept of using such a strip for a base rim or in pinching the beading of the cover in the groove, in place of the wood or fiber tacking strip in devices of the latter sort; that such invention could be exercised, in view of this prior art, only in the adaptation of

the old device to the new use; and that Young merely disclosed in his patent the well-known double U-frame without any adaptation thereof to the needs of the new use. It is thus urged that the true invention lay in the practical adaptation of this idea, of oppositely disposed grooves for holding spring and upholstery cover, by designing the S-frame in such manner and shape as to present leverage surfaces upon which the clamping tools could operate; and that this concept and reduction to practice, which made the device practical and gave to it most of its utility, was the work of one Hawes, an employee of the Young Industries. It may be conceded for the purposes of this opinion that a patent for an impractical device or one which is inoperative will not be held to anticipate an invention which is highly practical and useful even though it bears some similarity in form and concept to the earlier patented device. Compare *Lovell* v. *Seybold Mach. Co.*, 169 F. 288 (C. C. A. 2). In the present case, however, we are convinced that the patent in suit is not without utility and that the asserted improvement of the Hawes S construction over the double U form of the patent has reference to the matter of commercial production rather than to intrinsic utility and the advance made by Young. The basic idea and inventive concept were those of the patentee. He showed the double U base rim as the preferred form of his invention. It is perfectly possible to utilize this preferred form in structures of the type shown. Speed of operation and quantity production in this precise form are perhaps impractical, but the disclosure sufficiently covers the later commercial forms. It is unnecessary to give the claims a broad construction such as was disallowed in our decisions of *Firestone Tire & Rubber Co.* v. *Seiberling* (C. C. A.) 257 F. 74, 79, 80; *National Malleable Casting Co.* v. *Buckeye, etc., Co.* (C. C. A.) 171 F. 847; etc. The claims read fully upon the defendant's device and upon the Hawes particular S form. Under these circumstances the most that can be said in behalf of the Hawes S design is that if a patent had issued to him for this improvement, neither he nor Young could have manufactured the improved device without license from the other. We have so frequently held that mere improvement upon a patented device, without departure from the basic concept and mode of operation, does not avoid infringement, that citation of precedent seems unnecessary. *Farrington* v. *Haywood* (C. C. A.) 35 F.(2d) 628; *Gordon Form Lathe Co.* v. *Walcott Mach. Co.* (C. C. A.) 32 F.(2d) 55.

We therefore conclude that the judgment of the district court dismissing the bill as to the claims in suit of the patent to Holtfoth, No. 1,439,891, for lack of infringement, be affirmed as to said dismissal upon our finding that said claims are invalid for want of invention; that the decree of the district court finding the claims of the patent to Michells, No. 1,428,701, valid and infringed, be reversed; and that said decree of the district court finding the claims in suit of the patent to Young, No. 1,058,285, valid and infringed, be affirmed. The cause is remanded to the district court, with instructions to modify the decree in accordance with this opinion. The master should be instructed also to ascertain and report a reasonable royalty, so that it may be adopted as the measure of damages, if such adoption should seem to the court to be appropriate. The costs in this court will be borne in equal proportions by the two parties here.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

970,812, A. C. Graham, Shoe guide for well casings, filed Aug. 27, 1930, D. C., S. D. Calif. (Los Angeles), Doc. 4147–C, *A. C. Graham* v. *H. T. Kinney* (*Kinney Iron Works*).

1,011,523, A. Swan, Lamp-making machine; 1,326,121, W. L. Van Keuren, Lamp manufacture; 1,453,594, Mitchell and White, Sealing-in machine; 1,453,595, same, Manufacture of incandescent electric lamps; 1,475,192, J. E. Marshall, Sealing-in machine, C. C. A., 3d Cir., Doc. 4074, *General Electric Co.* v. *C. Eisler et al.* Decree affirmed (notice Sept. 6, 1930).

1,092,078, M. C. Overman, Vehicle tire, D. C., S. D. N. Y., Doc. E 54/241, *Overman Cushion Tire Co., Inc.*, v. *U. S. Rubber Co.* Dismissed without prejudice Sept. 18, 1930.

1,094,761, A. Thousand, Autogenous welding outfit, D. C., N. D. Ohio, E. Div., Doc. 3206, *L. Campbell, Jr., et al.* v. *Gas Products Co.* Dismissed without prejudice Aug. 26, 1930.

1,114,832, E. Whitney, Hoisting machine, filed Sept. 13, 1930, D. C., E. D. Mich., S. Div., Doc. 4410, *Little Wonder Scaffolding Co.* v. *H. Van Raaphorst et al.*

1,151,501, J. Tomlison, Printing plate, filed Sept. 8, 1930, D. C. Minn., 4th Div., Doc. 1803, *Speedaumat Mfg. Co.* v. *L. O. Kellogg* (*Addressing Machine Supply Corp.*) *et al.*

1,178,347, J. P. Ratigan, Combined pipe and rod wrench and cutter; 1,482,148, same, Clamp, D. C., S. D. Calif. (Los Angeles), Doc. E H–78–J, *J. P. Ratigan* v. *A. P. Worthington.* Consent decree holding patents valid and infringed Sept. 8, 1930.

1,212,840, F. J. Straub, Building block and method of making same, D. C., M. D. Pa., Doc. 605, *Crozier-Straub, Inc., et al.* v. *H. H. Rothermel.* Decree for plaintiff Sept. 5, 1930.

1,226,600, R. C. Schemmel, Finishing welt, filed July 16, 1930, D. C., E. D. Wis. (Milwaukee), Doc. 2956, *Backstay Welt Co.* v. *Shadbolt & Boyd Co. et al.* Consent decree for plaintiff Sept. 11, 1930.

1,242,872, 1,357,521, C. Saunders, Self-serving store; 1,297,405, same, Price-tagging means, D. C., S. D. Calif. (Los Angeles), Doc. M–104–M, *Piggly Wiggly Corp.* v. *Bay Cities Mercantile Co. et al.* Decree for plaintiff July 8, 1930.

1,244,217, I. Langmuir, Electron-discharge apparatus and method of operating same; Re. 15,278, same, Electron-discharge apparatus; 1,287,265, S. Dushman, Electrical discharge device; 1,537,708, W. Schottsky, Thermionic vacuum tube; 1,558,437, I. Langmuir, Electrical discharge apparatus; 1,696,103, G. Seibt, Electric discharge tube; 1,748,026, L. E. Mitchell, Electron-discharge device, filed Sept. 5, 1930, D. C. Conn. (New Haven), Doc. E 2077, *Radio Corp. of America et al.* v. *Majestic Distributors, Inc.*

1,278,985, H. D. Morton, Portable electric-arc welding apparatus; Re. 15,313, same, Arc welding system and method of operating same; 1,620,219, same, Arc welding system; 1,648,560, same, Electric-arc welding; 1,648,563, same, Electric-arc welding apparatus, filed Sept. 10, 1930, D. C. Mass., Doc. E 3322, *Automatic Arc Welding Co.* v. *Walsh Holyoke Steam Boiler Works.*

1,283,431, H. E. Warren, Electric clock system; 1,283,434, same, Timing device; 1,283,435, 1,495,827, same, Self-starting synchronous motors; 1,502,494, same, Time-indicating apparatus, filed Sept. 12, 1930, D. C., S. D. Ind. (Evansville), Doc. E 124, *Warren Telechron Co.* v. *Hansen Mfg. Co., Inc.*

1,283,434. (See 1,283,431.) 1,283,435. (See 1,283,431.)

1,283,546, H. M. Olson, Process for making waterproof cement and product, D. C., S. D. Calif. (Los Angeles), Doc. Q–7–H, *E. B. Wyman et al.* v. *Monolith Portland Cement Co. et al.* Dismissed July 18, 1930.

1,287,265. (See 1,244,217.) 1,297,405. (See 1,242,872.)

1,307,510, 1,459,412, A. M. Nicolson, Thermionic translating device; 1,354,939, H. D. Arnold, Vacuum-tube device; 1,419,530, W. Wilson, Thermionically-active substance; 1,456,528; H. D. Arnold, Electric discharge device; 1,479,778, H. J. Van der Bijl, Vacuum-tube device, filed Sept. 5, 1930, D. C. Conn. (New Haven), Doc. E 2076, *Radio Corp. of America et al.* v. *Majestic Distributors, Inc.*

1,307,733 (*a*), A. V. Gullborg, Lubricating apparatus, D. C., E. D. Mich., S. Div., Doc. 2230, *The Bassick Mfg. Co.* v. *G. Doliva.* Decree for plaintiff Sept. 11, 1930.

1,307,733 (*b*), A. V. Gullborg, Lubricating apparatus; 1,307,734, same, Lubricating means, D. C., E. D. Mich., S. Div., Doc. 2226, *The Bassick Mfg. Co.* v. *H. Barsook.* Decree for plaintiff Sept. 11, 1930. Doc. 2228, *The Bassick Mfg. Co.* v. *A. J. Beyer.* Decree as above. Doc. 2231, *The Bassick Mfg. Co.* v. *E. Fromm.* Decree as above.

1,307,734. (See 1,307,733 (*b*).) 1,326,121. (See 1,011,523.)

1,354,939. (See 1,307,510.) 1,357,521. (See 1,242,872.)

1,419,530. (See 1,307,510.)

1,435,788, I. H. Athey, Traction mechanism; 1,623,457, same, Vehicle, C. C. A., 3d Cir., Doc. 4241, *Athey Truss Wheel Co.* v. *Moore & Moore, Inc.* Decree affirmed Sept. 16, 1930.

1,453,594. (See 1,011,523.) 1,453,595. (See 1,011,523.)

1,456,528. (See 1,307,510.) 1,459,412. (See 1,307,510.)

1,463,506. (See 1,526,714.)

1,466,098, E. C. Myers, Harvester, D. C., E. D. Wis. (Milwaukee), Doc. 2377, *A. Ronning et al.* v. *E. E. Myers.* Dismissed Sept. 9, 1930.

1,470,524 (*a*), H. B. Burt, Process of making frozen confections; 1,505,592, F. W. Epperson, Frozen confectionery; 1,718,997, C. W. Burt, same, filed Sept. 8, 1930, D. C., S. D. Calif. (Los Angeles), Doc. E S–27–J, *National Popsicle Corp. et al.* v. *F. B. Foss.* Doc. E S–29–M, *National Popsicle Corp. et al.* v. *L. Lazar.*

1,470,524 (*b*), H. B. Burt, Process of making frozen confections; 1,718,997, C. W. Burt, Frozen confectionery, filed Sept. 3, 1930, D. C., S. D. Calif. (Los Angeles), Doc. E S–23–M, *C. Burt Roller* v. *K. Kirk.*

1,475,192. (See 1,011,523.) 1,479,778. (See 1,307,510.)

1,482,148. (See 1,178,347.)

1,483,361, J. P. McCarthy, Method of reclaiming waste, filed Jan. 18, 1930, D. C., S. D. Ohio, W. Div., Doc. E 653, *The American Laundry Machinery Co.* v. *W. C. Dunn.*

1,495,827. (See 1,283,431.) 1,498,359. (See 1,526,714.)

1,502,494. (See 1,283,431.) 1,505,592. (See 1,470,524 (*a*).)

1,512,888, L. Haft, Lighting set, filed Sept. 8, 1930, D. C., S. D. N. Y., Doc. E 55/195, *Moma Electric Corp.* v. *Everbest Battery Co., Inc.*

1,522,145, C. T. Rottler, Cutter head, filed Sept. 10, 1930, D. C., W. D. Wash., N. Div., Doc. 768, *C. T. Rottler et al.* v. *P. J. Cronin Co.*

1,526,714, 1,563,506, J. O. Luthy, Recovery and utilization of materials of old secondary-battery plates; 1,498,359, H. P. Dodge, Battery-plate building, filed Aug. 30, 1930, D. C., N. D. Tex. (Dallas), Doc. 3294–549, *Luthy Research Laboratory* v. *J. H. Thompson et al.*

1,533,858, L. A. Hazeltine, Method and means for neutralizing capacity coupling in audions, filed Sept. 12, 1930, D. C., S. D. N. Y., Doc. E 55/216, *Hazeltine Corp.* v. *American Bosch Magneto, Corp.*

1,534,092, W. H. Solle, Fruit-drying apparatus, D. C. Oreg. (Portland), Doc. E 9102, *W. H. Solle* v. *J. M. Throne.* Decree for plaintiff Sept. 8, 1930.

1,537,569, Whittier and Thayer, Central station for carrier-dispatch system, filed Sept. 17, 1930, D. C., E. D. Mich., S. Div., Doc. 4413, *The Lamson Co.* v. *The Grover Co.*

1,537,708. (See 1,244,217.)

1,544,465, Lovell and Brown, truck, D. C. Tex. (Galveston), Doc. E 183, *Atlas Trailers & Water Mufflers, Inc.*, v. *Gray's Iron Works, Inc., et al.* Patent held invalid Sept. 6, 1930.

1,545,474, E. T. Adams, Sand-ejecting means for deep-well pumps; 1,621,046, I. B. Winsor, Deep-well pump, D. C., S. D. Calif. (Los Angeles), Doc. M–11–M, *J. G. Richardson et al.* v. *E. S. Ford* (*Ford Specialty Co.*). Injunction granted Feb. 26, 1930.

1,558,437. (See 1,244,217.)

1,562,521, C. P. Schlegel, Grip strap, filed Sept. 5, 1930, D. C., S. D. N. Y., Doc. E 55/194, *The Schlegel Mfg. Co.* v. *Auto Textile Trimming Co., Inc.*

1,563,506. (See 1,526,714.)

1,574,586, Loucks & Gillett, Building construction, filed Sept. 5, 1930, D. C., E. D. Mich., S. Div., Doc. 4391, *Detroit Steel Products Co.* v. *The R. C. Mahon Co.*

1,589,354, J. W. Boren, Scythe fastening, filed Aug. 2, 1930, D. C., S. D. Ind. (New Albany), Doc. E 73, *Sta-tite Snath Co.* v. *Seymour Mfg. Co.*

1,593,735, Vreeland & Dyer, Recording sounds, C. C. A., 3d Cir., Doc. 4015, *Victor Talking Machine Co.* v. *F. K. Vreeland et al.* Decree reversed Sept. 5, 1930.

1,620,219. (See 1,278,985.) 1,621,046. (See 1,545,474.)

1,623,457. (See 1,435,788.) 1,648,560. (See 1,278,985.)

1,648,563. (See 1,278,985.)

1,650,677, Williams and Swart, Baling press, D. C., S. D. Ohio, W. Div., Doc. E 578, *Economy Baler Co.* v. *Leshner Paper Stock Co.* Dismissed Sept. 9, 1930.

1,657,751, R. I. Henderson, Oil-well plug; 1,721,881, same, Fishing tool, filed Apr. 14, 1930, D. C., S. D. W. Va. (Charleston), Doc. E 2742, *R. I. Henderson* v. *The McJunkin Supply Co.*

1,696,103. (See 1,244,217.) 1,718,997. (See 1,470,524 (*a*) and (*b*).)

1,721,881. (See 1,657,751.)

1,743,822, J. F. Larkin, Carbon copying set, filed Sept. 17, 1930, D. C., S. D. N. Y., Doc. E 55/222, *J. F. Larkin* v. *P. Hano Co., Inc.*

1,747,724, L. Mollart, Golf-ball washer, filed Aug. 14, 1930, D. C., S. D. Calif. (Los Angeles), Doc. S–4–C, *L. Mollart* v. *Minkler Fehrenschild Mfg. Co.*

1,748,026. (See 1,244,217.)

1,751,273, R. A. Freundlich, Display figure and method of making same, filed Sept. 10, 1930, D. C., S. D. N. Y., Doc. E 55/199, *R. A. Freundlich, Inc., et al.* v. *J. Poley* (*Pioneer Equipment Co.*). Doc. E 55/200, *R. A. Freundlich, Inc., et al.* v. *Feldman Machine Works, Inc.* Doc. E 55/201, *R. A. Freundlich, Inc., et al.* v. *C. Scheman.* Doc. E 55/202, *R. A. Freundlich, Inc., et al.* v. *S. Rosenzweig.* Doc. E 55/203, *R. A. Freundlich, Inc., et al.* v. *Roma Doll Co., Inc.*

Re. 14,326, Salmon & Dodgson, Absolute permissive automatic block-signal system, filed Sept. 3, 1930, D. C. Colo. (Denver), Doc. 9322, *General Rwy. Supply Co.* v. *The Railroad Supply Co.*

Re. 15,278. (See 1,244,217.) Re. 15,313. (See 1,278,985.)

Re. 17,323, R. D. Davies, Process of facing the cutting edges of drilling tools, filed Aug. 30, 1930, D. C., S. D. Calif. (Los Angeles), Doc. E S–21–J, *P. L. & M. Co.* v. *M. A. Griffith et al.* (*Spartan Steel Co.*).

Re. 17,514, McCabe & Schoenholz, Pocketbook top; Des. 80,008, same, Pocketbook latch, filed Sept. 4, 1930, D. C., S. D. N. Y., Doc. E 55/178, *McCabe & Schoenholz, Inc.*, v. *Artistic Wire Forming Co., Inc.*

Des. 80,008. (See Re. 17,514.)

Adjudicated Patents

(C. C. A. N. Y.) Boyce patent, No. 1,206,783, for temperature-indicating system and apparatus for internal-combustion engines, *Held* invalid. *Leander Development Corporation* v. *Taft-Buick Corporation*, 42 F.(2d) 823.

(C. C. A. N. Y.) Boyce patent, No. 1,275,654, for indicating means for motor-propelled vehicles, claims 4 and 25 *Held* invalid. *Id.*

(C. C. A. Ill.) Olsen patent, No. 1,314,752, for burned shale and method of preparing the same and concrete made therefrom, claims 1, 2, 3, and 5 *Held* not infringed, claims 4, 6, 10, and 11 *Held* invalid. *Silica Products Co.* v. *Haydite Co.*, 42 F.(2d) 865.

(D. C. Ill.) Olsen patent, No. 1,314,752, for burned shale and method of preparing the same and concrete made therefrom, claims 1, 2, 3, 4, 5, 6, 10, and 11, *Held* not infringed. *Silica Products Co.* v. *Haydite Co.*, 42 F.(2d) 861.

(D. C. N. Y.) Wachsman patent, No. 1,358,483, for stop mechanism for knitting machines, *Held* valid and infringed. *Wachsman* v. *Wachsman*, 42 F.(2d) 869.

(C. C. A. Minn.) Fisher and Kristofek reissue patent, No. 16,253, for pencil, claims 2, 3, 4, 5, and 6 *Held* not infringed. *Brown & Bigelow* v *Louis F. Dow Co.*, 42 F.(2d) 785.

Disclaimers

1,568,692.—*Alan Adair Pollock*, Leamington Spa, England. DYNAMO-ELECTRIC MACHINE. Patent dated January 5, 1926. Disclaimer filed October 24, 1930, by the assignee, *General Electric Company*.

Hereby enters this disclaimer to claim 1 of said patent which is in the following words:

"1. A dynamo electric machine of the commutating type, having an armature winding comprising coils, each coil comprising a plurality of conductors, two of said conductors of each coil being located substantially 360 electrical degrees apart and another of said conductors of each coil being located substantially 180 electrical degrees from each of said first mentioned conductors."

1,607,993.—*Raymond G. F. Loewy*, Jackson Heights, N. Y. CONTAINER TUBE. Patent dated November 23, 1926. Disclaimer filed October 29, 1930, by the patentee.

Hereby enters this disclaimer to the subject-matter of claims 1, 3, 5, 6, 7 and 8, which are as follows:

"1. A container tube having a neck at one end thereof, said neck having a bore therein, a closure disposed in said bore comprising a resilient diaphragm extending across said bore and having a slit therein, a tubular portion joined to said diaphragm and fitting the wall of said bore, and means to prevent displacement of said closure."

"3. A container tube having at one end thereof a breast terminating in a neck, said neck having a bore therein, a closure disposed in said bore comprising a resilient diaphragm extending across said bore and having a slit therein, a tubular portion joined to said diaphragm and fitting the wall of said bore, and an annular flange joined to said tubular portion and contacting with the breast of said tube to prevent displacement of said closure."

"5. A container tube having a neck at one end thereof, said neck having a bore therein, a closure for said bore comprising a resilient diaphragm extending across said bore and having a slit therein whereby, when pressure is applied to the tube, the contents thereof may be forced outwardly through the slit, the material of the diaphragm on either side of the slit resiliently yielding to permit passage of the contents and upon release of the pressure returning to its original condition to close the slit and retain the contents in the tube, and means for preventing displacement of said closure.

"6. A container tube having a neck at one end thereof, said neck having a bore therein, a closure for said bore comprising a resilient diaphragm of cellulose material extending across said bore and having a slit therein whereby, when pressure is applied to the tube, the contents thereof may be forced outwardly through the slit, the material of the diaphragm on either side of the slit resiliently yielding to permit passage of the contents and upon release of the pressure returning to its original condition to close the slit and retain the contents in the tube, and means for preventing displacement of said closure.

"7. A container tube having a neck at one end thereof, said neck having a bore therein, a closure for said bore comprising a resilient diaphragm extending across said bore and having a plurality of radiating slits therein intersecting at a point whereby, when pressure is applied to the tube, the contents thereof may be forced outwardly through the slits, the material of the diaphragm on either side of the respective slits resiliently yielding to permit passage of the contents and upon release of the pressure returning to its original condition to close the slits and retain the contents in the tube, and means for preventing displacement of said closure.

"8. A container tube having a neck at one end thereof, said neck having a bore therein, a closure for said bore comprising a resilient diaphragm of cellulose material extending across said bore and having a plurality of radiating slits therein intersecting at a point whereby, when pressure is applied to the tube, the contents thereof may be forced outwardly through the slits, the material of the diaphragm on either side of the respective slits resiliently yielding to permit passage of the contents and upon release of the pressure returning to its original condition to close the slits and retain the contents in the tube, and means for preventing displacement of said closure."

1,732,814.—*Erwin L. Klos*, Kenosha, Wis. BED BOTTOM. Patent dated October 22, 1929. Disclaimer filed October 29, 1930, by the assignee, *Simmons Company*.

Disclaims from the scope of the claim of said Patent any structure with springs having generally circular top end coils where any material portion of the general curve of said top coils extends outside of the area bounded by the line of the inner edge of the horizontal flange of the border angle, and

Limits the scope of said claim to a structure in which the parts projecting from said top coils comprise relatively narrow loops of such length as to position the general curves of the said top coils within the area bounded by the inner edge of the horizontal flange of the border angle.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,691,906, Aaron Lefkowitz, by judicial change of name, Aaron Landis, Bag, decided October 7, 1930, claims 7, 8, and 9.

Pat. 1,610,394, H. A. Thompson, Railway-traffic-controlling apparatus, decided October 8, 1930, claims 1, 2, and 5.

TRADE-MARKS

OFFICIAL GAZETTE, NOVEMBER 18, 1930

[VOL. 400. No. 3]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for " under the ten-year proviso " are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 291,142. RELIABLE COAL & MINING CO., Chicago, Peoria, and Springfield, Ill.; Moberly and Kansas City, Mo.; and Omaha, Nebr. Filed Oct. 16, 1929.



For Coal.
Claims use since Sept. 1, 1929.

Ser. No. 291,144. RELIABLE COAL & MINING CO., Chicago, Peoria, and Springfield, Ill.; Moberly and Kansas City, Mo.; and Omaha, Nebr. Filed Oct. 16, 1929.



The drawing is lined to indicate the color red.
For Coal.
Claims use since Aug. 1, 1929.

Ser. No. 295,361. ELMER CARD, doing business as Card Seed Company, Fredonia, N. Y. Filed Jan. 30, 1930.



The words "Lawn Grass" and "Fredonia, N. Y." are hereby disclaimed as a part of the trade-mark.
For Garden Seeds.
Claims use since Oct. 1, 1929.

Ser. No. 302,897. WILLIAM HURWITZ, doing business as William Hurwitz & Co., London, England. Filed June 27, 1930.

FRANFURTIA

The lining shown in the drawing is intended to represent shading only.
For Leather and Artificial Leather.
Claims use since July 3, 1928.

Ser. No. 306,702. FREDERICK C. HITCHCOCK, Boston, Mass. Filed Oct. 13, 1930.

COVULC

For Cold-Vulcanized Rubber.
Claims use since Aug. 4, 1930.

CLASS 2

Receptacles

Ser. No. 297,493. NEW IDEA MANUFACTURING COMPANY, INC., Philadelphia, Pa. Filed Mar. 18, 1930.

NIMCO

For Garment Bags, Laundry Bags, Shoe Bags, Wardrobe Bags, and Household Utility Containers or Receptacles Constructed of Textile Material.
Claims use since June, 1925.

Ser. No. 306,231. CHASE BAG COMPANY, New York, N. Y. Filed Sept. 30, 1930.

TYRITE

For Paper Bags.
Claims use since Oct. 1, 1907.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 296,730. CHICAGO SANITARY PRODUCTS CO., doing business as Cleanwell Mfg. Co., Chicago, Ill. Filed Mar. 3, 1930.



No claim is made to the exclusive use of the word "Cleanwell" apart from the mark as shown in the drawing.
For Brass Polish, Green Soap, Liquid Soap, Laundry Soap, Liquid and Powder Metal Polish, Mechanic's Liquid Soap, Chemically-Treated Polishing Cloths, Soap Powder, Sweeping Compound, Scouring Compound, Scouring Soap, Scouring Powder, and Toilet Soaps.
Claims use since Jan. 30, 1930.

Ser. No. 303,406. THE TROPICAL PAINT AND OIL COMPANY, Cleveland, Ohio. Filed July 11, 1930.

TROPICAL

Applicant disclaims exclusive right to the use of the words "Steel," "Stucco," "Wood," "Roofs," "Stacks," "Concrete," "Brick," and "Interiors" apart from the trade-mark as shown in the drawing.
For Cleaner for Cleaning Tile, Marble, Granite, Stone, Mosaic, Linoleum, Dishes, Cooking Utensils, Windows, Show Cases, Crockery, Cut Glass, Mirrors, Skylights; for Washing Clothes; for Removing Grease, Paint, and Dirt from the Hands; and for General Cleaning Purposes, and for Belt Dressing.
Claims use since June 16, 1930.

Ser. No. 303,837. THE CARBORUNDUM COMPANY, Niagara Falls, N. Y. Filed July 26, 1930.



For Certain Abrasive Articles and Compounds Comprising Prepared Abrasive Grains and Powders; Abrasive Paper and Cloth in the Form of Sheets, Rolls, Pads, Discs, Strips, Coils, and Special Shapes; Abrasive Wheels of All Kinds, Abrasive-Wheel Segments, Abrasive Discs and Cones; Molded Abrasive Articles Comprising Blocks, Bricks, Stones, Scythestones, Sharpening Stones of Various Shapes, Hones, Strops; Bonded Abrasive Sticks with and without Handles, Strips of Bonded Abrasive Material Having a Metal Reinforcement Along One Edge for Dressing Contact Points and for Other Fine Abrasive Operations, Abrasive Insert Stones of Tooth Form, Abrasive Points, Pin Wheels, Combination Paper, Breasting Paper, Waterproof Abrasive Paper and Cloth, and Belts having Abrasive Material on the Outside Surface Thereof for Use in Sanding Machines.
Claims use since July 1, 1902.

Ser. No. 305,457. GERTRUDE W. STANBERY, Deerfield, Mich. Filed Sept. 8, 1930.

TREG

For Metal Polish and Metal-Polishing Cloths.
Claims use since Aug. 23, 1930.

CARNEGIE LIBRARY OF ATLANTA

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 290,344. CHARLES A. DE LONE, doing business as Enoled Laboratories, Harrisburg, Pa. Filed Sept. 28, 1929.

BONATA

For Mouth Wash and Antiseptic for the Gums After Extracting Teeth.
Claims use since Aug. 11, 1922.

Ser. No. 293,928. MELLIER COMPANY, PERFUMER, St. Louis, Mo., and New York, N. Y. Filed Dec. 20, 1929.

La Rosa de Guadalupe

For Perfumery, Cold Cream, Skin and Tissue Cream, Vanishing Cream, Cleansing Cream, Bleaching Cream, Massage Cream, Bath Salts, Bath Crystals, Almond Meal, Toilet Cerate, Toilet Water, Headache Cologne, Smelling Salts, Face Powder, Bath Powder, Talcum Powder, Rice Powder, Toilet Powder, Body Powder, Dusting Powder, Compact Powder, Shampoo Powder and Liquid, Tooth Powder, Tooth Paste, Dentifrices, Rouge, Liquid and Dry Rouge, Lip Sticks, Lip Salve, Hair Tonics, Hair Oils, Bay Rum, Face Lotions, Skin Lotions, Sachet, Brilliantine, Nail Polish, Nail Enamel, Eyebrow Pencil, Mascara, Cocoa Butter, Depilatory, Pomade, Rubbing Alcohol, Sunburn Ointments, Deodorant.
Claims use since June 30, 1922.

Ser. No. 295,483. P. A. LEFEBVRE & COMPANY, LIMITED, Alexandria, Ontario, Canada. Filed Feb. 1, 1930.



Applicant disclaims all wording with the exception of the word "Magic" apart from the mark as shown on the drawing.
For Preparation Used in Gasoline and Kerosene Engines for Removing and Eliminating Carbon and for Increasing Power and Mileage.
Claims use since 1920.

Ser. No. 297,512. CECELIA BELLE, INC., New York, N. Y. Filed Mar. 19, 1930.

Cecelia Belle

For Cold Creams, Compact Powders, Face Powders, Rouges, Lip Sticks, Lip Rouge, Lip Salves, Perfumes, and Talcum Powders.
Claims use since Mar. 1, 1930.

Ser. No. 297,518. CLUNY, INC., New York, N. Y. Filed Mar. 19, 1930.

DELANNE

For Cold Creams, Compact Powders, Eyebrow Pencils, Eyelash Cosmetic, Face Powders, Face Creams, Rouges, Lip Sticks, Lip Jelly, Lip Rouge, Lip Salves, Manicure Preparations, Perfumes, Skin Creams, Skin Lotions, Talcum Powders, and Toilet Waters.
Claims use since Mar. 1, 1930.

Ser. No. 297,519. CLUNY, INC., New York, N. Y. Filed Mar. 19, 1930.

Le Faun

For Cold Creams, Compact Powders, Eyebrow Pencils, Face Powders, Face Creams, Rouges, Lip Sticks, Lip Jelly, Lip Rouge, Lip Salves, Perfumes, Skin Creams, Skin Lotions, Talcum Powders, and Toilet Waters.
Claims use since Mar. 1, 1930.

Ser. No. 298,284. JACOB M. LEVIN, doing business as Lava Chemical Company, Philadelphia, Pa. Filed Apr. 2, 1930.



The drawing is lined for red.
For Medicinal Ointment for Rubbing Purposes in the Treatment of Rheumatism, Fatigue, Neuralgia, Sprains, Colds, Coughs, and Congestion of the Chest.
Claims use since Feb. 21, 1930.

Ser. No. 299,569. GENERAL COSMETICS CORPORATION, New York, N. Y. Filed Apr. 28, 1930.

MAISONETTE des COSMETIQUES

The words "Des Cosmetiques" are claimed only in connection with the other features of the mark.
For Lip Rouge, Face Rouge, Face Powder, Talcum Powder, Toilet Water, Perfume, Cold Cream, Vanishing Cream, Skin Sachet, Nail Polish, Face Lotion, Face Creams, Bleach Creams, Beauty Creams, Cleansing Creams, Eyebrow and Eyelash Grower, and Astringents.
Claims use since May 15, 1929.

Ser. No. 299,675. F. M. EUGENE BLASS, doing business as E. Am. Ass'n. for Oxygen-Therapy, New York, N. Y. Filed Apr. 30, 1930.

OXY-VIGOR

For Pharmaceutical Preparation Acting as Blood Purifier, Prophylactic, Laxative, Body Rejuvenator, Body Regenerator, and Blood Circulation Accelerator.
Claims use since Jan. 2, 1930.

Ser. No. 300,607. MANUEL J. BETTENCOURT, New Bedford, Mass. Filed May 16, 1930.

POMADA SECATIVA DE S. LAZARO



Applicant disclaims the words "Pomada Secativa De" apart from the mark as shown on the drawing.
For Ointment for Treatment of Inflammatory Conditions of the Skin and Old Sores and Wounds.
Claims use since Mar. 1, 1927.

Ser. No. 302,180. HERMANN HAHN, doing business as Hahn & Co., Hamburg, Germany. Filed June 5, 1930.



For Cod-Liver Oil.
Claims use since Dec. 21, 1929.

Ser. No. 303,379. ADOLF CHARLES JOHNSTON, doing business as Nuvita Company, Burnley near Melbourne, Victoria, Australia. Filed July 11, 1930.



No claim is made to any of the wording appearing on the drawing with the exception of the word "Nuvita", apart from the other features shown.
For General Tonic.
Claims use since 1921.

Ser. No. 304,246. LOUIS MOCQ, New York, N. Y. Filed Aug. 5, 1930.

Rejuvia

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Face Bleaches, Liquid Rouges, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, After-Shaving Lotions, Pomades, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.
Claims use since July 17, 1930.

Ser. No. 304,501. RALPH GALOWIN, doing business as Ens-Em Chemical Company, Brighton, Brooklyn, N. Y. Filed Aug. 12, 1930.

ENS-EM

For Preparation for Killing Moths.
Claims use since May 1, 1929.

Ser. No. 304,581. HECTOR M. ROBERTSON, Los Angeles, Calif. Filed Aug. 13, 1930.



DOGAIDS

For Sulphur Tablets, Stomach Sedative Tablets, Calcium Phosphate, Canine Elixir, Cod-Liver-Oil Capsules, Nerve Sedative Tablets, Cough Tablets, Constipation Tablets, Digestant Tablets, Astringent Tablets, Diuretic and Stimulative Tablets, Dip Disinfectant, Ear-Canker Ointment, Eye-Lotion Tablets, Ointment for Mange and Eczema, Flea Powder, Hair Salve, Cathartic Tablets, Diuretic Tablets, Liniment, Laxative Tablets, Mange Medicine, Mouth and Throat Wash, Expectorant, Purgative Tablets, Tablets for Aches and Soreness, Tapeworm Medicine, Tonic and Condition Tablets, Capsules for Ascarids and Large Round Worms in Dogs, Capsules for Ascarids and Large Round Worms in Puppies, Tonic and Condition Tablets for Toy Dogs and Puppies, Distemper Tablets, Antiasmatic Tablets, Antirickets Tablets.
Claims use since June 1, 1929.

Ser. No. 304,987. WING YEEN WONG, Oakland, Calif. Filed Aug. 23, 1930.



No claim is made to the words "Herb" and "Preparations."
For Medicinal Preparation in Powder Form for the Treatment of Appendicitis, Asthma, Coughs, Influenza, and Rickets.
Claims use since June 1, 1930.

Ser. No. 304,994. CARLE, INC., Des Moines, Iowa. Filed Aug. 25, 1930.

CYTHEREA

For Perfume.
Claims use since July 26, 1930.

Ser. No. 305,007. ARAM KAMALIAN, Hollywood, Calif. Filed Aug. 25, 1930.



For Perfumes.
Claims use since Oct. 28, 1928.

Ser. No. 305,163. MICHAEL F. DOUGHERTY, Logansport, Ind. Filed Aug. 30, 1930.

ReJuv

For General Tonic.
Claims use since Feb. 4, 1930.

Ser. No. 305,189. THE KURLASH COMPANY, INC., Rochester, N. Y. Filed Aug. 30, 1930.

Shadette

For Eye-Shading Preparation in Compact Form.
Claims use since Mar. 10, 1929.

Ser. No. 305,352. CARL FLOYD, doing business as Thermolene Properties, Boonville, Ind. Filed Sept. 5, 1930.

Thermolene

For Antifreeze Solutions.
Claims use since July 5, 1930.

Ser. No. 305,371. SANOZYM, INCORPORATED, New York, N. Y. Filed Sept. 5, 1930.

FORESTOL

For Preparation Composed of Essential Volatile Extracts of Balsamic and Pinus Plants Which Possess Antiseptic and Healing Properties to be Used in Liquid Form as an Inhalent Medicine for Nasal Infection and Catarrh.
Claims use since Nov. 1, 1929.

Ser. No. 305,416. ROYAL BAKING POWDER COMPANY, INC., New York, N. Y. Filed Sept. 6, 1930.



Applicant makes no claim to the exclusive right to use any of the words displayed upon said trade-mark (other than the word "Royal") apart from the mark as shown; nor to the color blue as indicated by the lining on the drawing except when used in connection with the trade-mark as shown.
For Baking Powder.
Claims use since July 2, 1930.

Ser. No. 305,503. WEAVER-JACKSON COMPANY, Los Angeles, Calif. Filed Sept. 9, 1930.

CHELONI-SKIN

The word "Skin" is disclaimed apart from the mark shown.
For Salve Used for Eradicating Wrinkles.
Claims use since December, 1929.

Ser. No. 305,554. THE BATTERY WONDER POWER INC., San Francisco, Calif. Filed Sept. 10, 1930.

VITABAT

For Liquid Composition in the Nature of an Electrolyte for Use in Storage Batteries.
Claims use since May 14, 1930.

Ser. No. 305,592. ALBERT GALLATIN THOMAS, doing business as The Thomas Chemical Co., Lynchburg, Va. Filed Sept. 11, 1930.

CUREX

For Ointment for the Treatment of Eczema and Other Skin Disorders.
Claims use since Aug. 6, 1930.

Ser. No. 305,807. DIXIE DEB, Atlanta, Ga. Filed Sept. 18, 1930.

DIXIE DEB

For Toilet Preparations—Namely, Face Creams, Perfumes, Toilet Waters, and Hair Preparations, Including Hair Tonic, Wave Set, Brilliantine, and Emulsified-Cocoanut-Oil Shampoo.
Claims use since Aug. 29, 1930.

Ser. No. 305,874. PHARMACEUTICAL RESEARCH CORPORATION, Wilmington, Del. Filed Sept. 19, 1930.

Reatalis

For Mouth Wash.
Claims use since Mar. 1, 1930.

Ser. No. 305,882. ERNST SILTEN, Berlin, Germany. Filed Sept. 19, 1930.

GLYCIRENAN

For Liquid for Asthma, Laryngitis, and Diseases of Respiratory Organs.
Claims use since 1912.

Ser. No. 305,963. CHEMISCHE FABRIK PROMONTA GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, Hamburg, Germany. Filed Sept. 23, 1930.

TRILOSIN

For Hair Tonic.
Claims use since Aug. 9, 1930.

Ser. No. 305,986. SUPERIOR LABORATORIES, INC., Cleveland, Ohio. Filed Sept. 23, 1930.

FOOT RENUE

For Cream Preparation for Relieving Foot Irritation, Aching, Itching, and Soreness.
Claims use since Apr. 24, 1930.

Ser. No. 306,004. EASTMAN KODAK COMPANY, Rochester, N. Y. Filed Sept. 24, 1930.

KODALITH

For Photographic Developer.
Claims use since Aug. 14, 1930.

Ser. No. 306,039. AMERICAN GIRL PRODUCTS, New York, N. Y. Filed Sept. 24, 1930.

EXOTIC

For Toilet Creams for Cleansing the Skin, Nourishing the Tissues, for a Base for Powder, and for Protection Against Sunburn.
Claims use since Aug. 18, 1930.

Ser. No. 306,242. WILLIAM H. MULLER, doing business as C. J. Schellings & Co., New York, N. Y. Filed Sept. 30, 1930.

GAF

For Antifreeze Liquid.
Claims use since July 19, 1930.

Ser. No. 306,455. ONYX OIL & CHEMICAL CO., Jersey City, N. J. Filed Oct. 6, 1930.

CHAMOSHEEN

For Preparation for Application to Textile Fibers and Fabrics for Imparting a Soft Glovy or Chamois Feel, Known as the Old French Finish, and for Strengthening Them.
Claims use since November, 1929.

Ser. No. 306,570. ROY ALBERT MULLEN, doing business as Premier Laboratories Co., Cincinnati, Ohio. Filed Oct. 9, 1930.

"PREMIER"

For Headache Capsules, Laxative Tablets, Foot Powder, Cough Syrup, Mouth Wash, Penetrating Liniment, Eczema Ointment, Liver Pills, Kidney Pills, Douche Powder; Medicinal Preparation for the Treatment of Dyspepsia, Heartburn, Indigestion, Sour Stomach, and Gas on Stomach; and a Medicinal Vegetable Preparation for Ailments Peculiar to Women and Treatment of Painful Menstruations.
Claims use since July 25, 1930.

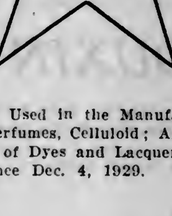
Ser. No. 306,595. CORN PRODUCTS REFINING COMPANY, New York, N. Y. Filed Oct. 10, 1930.

EAGLE

For Pearl and Powdered Starch.
Claims use since March, 1909.

Ser. No. 306,602. HARPER & HUMPHREY, Chicago, Ill. Filed Oct. 10, 1930.

ZODIAC



For Preparation for Blood Disorders.
Claims use since February, 1927.

Ser. No. 306,631. MIDWAY CHEMICAL COMPANY, Chicago, Ill. Filed Oct. 10, 1930.

ROACH Ded

For Roach Powder.
Claims use since July 1, 1930.

Ser. No. 306,663. RED STAR YEAST & PRODUCTS COMPANY, doing business as National Distilling Company, Milwaukee, Wis. Filed Oct. 11, 1930.



For Fusel Oil, Used in the Manufacture of Artificial Fruit Flavors, Perfumes, Celluloid; Also as a Solvent in the Manufacture of Dyes and Lacquers.
Claims use since Dec. 4, 1929.

Ser. No. 306,687. H. TH. BÖHME A. G., Chemnitz, Germany. Filed Oct. 13, 1930.

Carnit

For Chemical Dye Aids—Namely, Moistening Preparations, Thread and Fibre Protecting Preparations, Thread and Fibre Penetrating Preparations, Smoothing Preparations, and Tanning Preparations.
Claims use since July 5, 1930.

Ser. No. 306,707. LOOKOUT MEDICINE CO., INC., Chattanooga, Tenn. Filed Oct. 13, 1930.

Gas-Go-La

For Preparation Used for Treatment of Indigestion, Blood Tonic, Liver and Kidney Preparation.
Claims use since Oct. 3, 1930.

Ser. No. 306,737. HENRY P. HILL, doing business as Hill's Hybrodonna Laboratories, Washington, D. C. Filed Oct. 14, 1930.

HYBRODONNA

For Medicinal Preparation for Relief of Indigestion and Other Gastric Disturbances of the Stomach.
Claims use since Sept. 22, 1930.

Ser. No. 306,741. JOHN H. MILLER, Brentwood, Md. Filed Oct. 14, 1930. Under 10-year proviso.

Miller's German Salve

For Medicinal Salve Used in the Treatment of Sores, Ringworms, Cuts, and Burns, Cracks in Feet and Hands, Piles, and Carbuncles.
Claims use since 1845.

Ser. No. 306,752. TAR PRODUCTS CORPORATION, Providence, R. I. Filed Oct. 14, 1930.

HEXPEL

For Insecticides and Deodorants.
Claims use since May 1, 1930.

Ser. No. 306,781. ANTONINO R. MARTINO, doing business as Italy Laboratories, New York, N. Y. Filed Oct. 15, 1930.

DUXIN

For Hair Color Restorer, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, and Hair Dyes.
Claims use since Oct. 1, 1930.

Ser. No. 306,804. ANTOX MANUFACTURING COMPANY, Seattle, Wash. Filed Oct. 16, 1930.

ANTOX

For Medicinal Compound for Treatment of the Teeth and Mouth.
Claims use since January, 1930.

CLASS 7

Cordage

Ser. No. 273,330. ALEXANDER L. SYKES, doing business as The International Cordage & Yarn Co., New York, N. Y. Filed Oct. 3, 1928.

ICY

The lining on the drawing indicates the color green.
For Manila, Flax, Jute, or the Like Rope.
Claims use since May 1, 1927.

Ser. No. 273,331. ALEXANDER L. SYKES, doing business as The International Cordage & Yarn Co., New York, N. Y. Filed Oct. 3, 1928.

ICY

For Fibre Rope.
Claims use since May 1, 1927.

CLASS 9

Explosives, Firearms, Equipments, and Projectiles

Ser. No. 306,723. REMINGTON ARMS COMPANY, INC., Bridgeport, Conn., and Ilion and New York, N. Y. Filed Oct. 13, 1930.

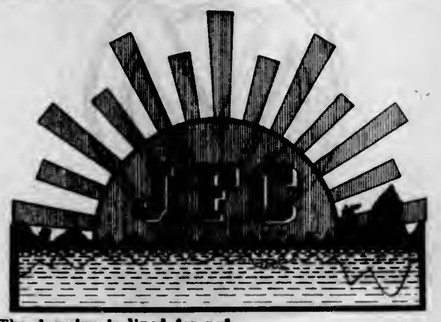
SPORTSMAN

For Firearms, Especially Shotguns.
Claims use since Sept. 5, 1930.

CLASS 10

Fertilizers

Ser. No. 306,059. JACKSON FERTILIZER COMPANY, Jackson, Miss. Filed Sept. 25, 1930.



The drawing is lined for red.
For Fertilizer.
Claims use since Sept. 2, 1930.

Ser. No. 306,190. LIEBIG'S EXTRACT OF MEAT COMPANY, LIMITED, London, England. Filed Sept. 29, 1930.



LEMC

For Fertilizers.
Claims use since 1880.

CLASS 11

Inks and Inking Materials

Ser. No. 286,028. CHEMICAL PROCESS CORPORATION, Chicago, Ill. Filed June 24, 1929.



No claim is made to the exclusive use of the words "Green Bak," "Evergreen," "Worth Their Weight in Gold," apart from the mark as shown in the drawing.
For Carbon Paper.
Claims use since June 15, 1929.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 298,467. THE STANLEY WORKS, New Britain, Conn. Filed Apr. 5, 1930.

COLORGRAPH

For Strip-Steel Strapping.
Claims use since Feb. 20, 1930.

Ser. No. 299,187. THE DELTA-STAR ELECTRIC COMPANY, Chicago, Ill. Filed Apr. 21, 1930.

"UNICLAMP"

For Forged-Steel Pipe Fittings.
Claims use since May 23, 1929.

Ser. No. 300,162. ARTCRAFT VALANCE MANUFACTURING COMPANY, Seattle, Wash. Filed May 9, 1930.



Applicant disclaims the word "Products" apart from the mark as shown.
For Waterproof Shower Curtains.
Claims use since Apr. 6, 1928.

Ser, No. 302,773. ABRAHAM G. GOLDBERG, doing business as International Manufacturing Company, Boston, Mass. Filed June 24, 1930.



The representation of the goods and all the words shown except "The Guardian" are disclaimed apart from the mark shown.
For Sanitary Wall Toothbrush Holders.
Claims use since Nov. 1, 1929.

Ser. No. 303,707. ACHESON MANUFACTURING COMPANY, Rankin, Pa. Filed July 22, 1930.

A 100

For Metal Pipe Fittings.
Claims use since June 23, 1930.

Ser. No. 305,871. THE NEW IDEA SPREADER COMPANY, Coldwater, Ohio. Filed Sept. 19, 1930.

NI

For Sprocket Chains.
Claims use since June 4, 1924.

Ser. No. 306,373. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Oct. 3, 1930.

BATTLESHIP

For Aluminum Household Utensils—Namely, Casseroles, Coffee Makers, Double Omelette Pans, Dutch Ovens, Griddles, Preserving Kettles, Pudding Pans, Roasters, Saucepans, Skillets, Stewpans, Teakettles, Triplicate Saucepan Sets.
Claims usesince Mar. 1, 1930.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 306,408. THE METALLOY CORPORATION, Waterbury, Conn. Filed Oct. 4, 1930.

MILLOY

For Zinc Alloy.
Claims use since Aug. 7, 1930.

Ser. No. 306,571. THE NEW JERSEY ZINC COMPANY, Newark and Franklin Borough, N. J. Filed Oct. 9, 1930.



For Slab Zinc.
Claims use since Sept. 11, 1930.

CLASS 15

Oils and Greases

Ser. No. 299,982. JOHN A. MCNEAR, doing business as J. A. McNear Co., San Francisco, Calif. Filed May 5, 1930.



For Illuminating Oils, Motor-Fuel Oils, and Lubricating Oils.
Claims use since Apr. 2, 1929.

Ser. No. 300,542. RICHFIELD OIL COMPANY OF CALIFORNIA, Los Angeles, Calif. Filed May 14, 1930.

RIOCO

For Petroleum and Products of Petroleum with or without Admixture of Other Materials for Illuminating, Heating, Power, Burning, Lubricating, Greasing, Tempering, Quenching, Slushing, and Flushing; Mineral Wax, Candles, Penetrating Oil, Road-Dressing Oil, and Absorbing Oil for Benzol Vapors Obtained in the Distillation of Coal.
Claims use since Nov. 1, 1929.

Ser. No. 303,439. HANFORD'S INC., doing business as Quaker Seal Petroleum Company, Sioux City, Iowa. Filed July 12, 1930.



No claim is made to the representation of the drum. The trade-mark consists in a design formed by placing a band of white circumferentially of the drum at one end thereof, covering approximately one-third of the lateral surface of the drum, the remainder of the drum being red as is shown in the drawing, which drawing is lined to indicate the color red, the plain surface being intended to indicate white.
For Lubricating Oils and Greases.
Claims use since June 18, 1930.

Ser. No. 303,971. MACMILLAN PETROLEUM CORPORATION, Los Angeles, Calif. Filed July 29, 1930.

BEVERLY HILL BILLIES

Applicant disclaims the use of the word "Beverly" apart from the mark as shown.
For Gasoline, Kerosene, Lubricating Oil, and Lubricating Greases.
Claims use since June 18, 1930.

Ser. No. 305,331. WEST INDIA OIL COMPANY, Bayonne, N. J. Filed Sept. 4, 1930.

Ideal

For Candles.
Claims use since Jan. 14, 1911.

Ser. No. 305,467. UNITED CHEMICAL COMPANY, IOWA CITY, Iowa, Iowa City, Iowa. Filed Sept. 8, 1930.

"IT"

For Lubricating Oils and Lubricating Greases.
Claims use since July 1, 1930.

Ser. No. 305,555. INDIAN REFINING COMPANY, Lawrenceville, Ill. Filed Sept. 10, 1930.

BULL DOG

For Lubricating Oils and Greases.
Claims use since July 30, 1930.

Ser. No. 305,841. ATLANTIC AND PACIFIC OIL COMPANY, Detroit, Mich. Filed Sept. 19, 1930.

A and P

For Gasolene, Lubricating Oils, and Lubricating Greases.
Claims use since Feb. 1, 1929.

CLASS 16

Paints and Painters' Materials

Ser. No. 301,525. SUN-GLOSS AUTO PRODUCTS CO., St. Louis, Mo. Filed May 28, 1930.



The word "Gloss" is disclaimed apart from the mark as shown.
For Polish for Autos and Other Lacquered, Enameled, and Highly-Varnished Surfaces.
Claims use since May 24, 1930.

Ser. No. 302,695. CARL I. SACHS, Chicago, Ill. Filed June 21, 1930.



The applicant hereby disclaims the right to the exclusive use of the wording which appears on the drawing apart from the other features of the mark.
For Paintbrush Cleaner and Preserver.
Claims use since Jan. 2, 1930.

Ser. No. 303,585. U-ORTU-COAT PRODUCTS CO., New York and Brooklyn, N. Y. Filed July 17, 1930.

U-ORTU-COAT

For Varnishes, Paint Enamels, Ready-Mixed Paints, Paint Oils, Lacquers, Automobile and Furniture Polishes, Baking Varnishes, Waxes for Polishing Automobiles and Furniture; Waxes for Polishing Floors and Floor Coverings, Such as Hardwood, Marble, Linoleum, Oilcloth, or Rubber; Stains, Penetrating Oil Stains, Penetrating Varnish Stains, Flat Paints; Finishers, and Floor Finishers Comprising Finishing Varnishes, Finishing Paints, and Finishing Lacquers; and Marine Paint.

Claims use since June 12, 1930, on finishing varnishes and since June 25, 1930, on remaining goods.

Ser. No. 306,351. GREAT LAKES VARNISH WORKS, INC., Chicago, Ill. Filed Oct. 3, 1930.

DURATINT

For Flat Wall Paint.
Claims use since Mar. 15, 1928.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 301,062. RUDGE-WHITWORTH LIMITED, Coventry, England. Filed May 22, 1930.



For Vehicle Wheels of Ordinary Metal.
Claims use since May 7, 1930.

Ser. No. 306,279. MOTO METER GAUGE & EQUIPMENT CORPORATION, Toledo, Ohio. Filed Oct. 1, 1930.

MOTOLEVER

For Brake Handles for Automobiles.
Claims use since July 21, 1930.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 267,178. THE AIR-O-LATOR CORPORATION, Cleveland, Ohio. Filed May 29, 1928.

AIR-O-LATOR

For Electric Fans, Electric Motors, and Electric-Motor Supports.
Claims use since Feb. 21, 1928.

Ser. No. 272,821. THE MAGNAVOX COMPANY, Oakland, Calif. Filed Sept. 22, 1928.

DYNAMIC

For Loud-Speakers, Telephone Receivers, and Parts Thereof.
Claims use since Aug. 7, 1928.

Ser. No. 299,439. GRIGSBY-GRUNOW COMPANY, Chicago, Ill. Filed Apr. 25, 1930.

COLOTURA

For Loud-Speakers and Radio Receiving Sets.
Claims use since Mar. 27, 1930.

Ser. No. 300,105. COLT'S PATENT FIRE ARMS MANUFACTURING CO., Hartford, Conn. Filed May 8, 1930.

NUBLADE

No claim is made to the word "Blade" apart from the mark as shown.

For Electric Switches and Parts Thereof, Particularly Industrial Safety Switches.
Claims use since January, 1927.

Ser. No. 305,073. NEW YORK INSULATED WIRE COMPANY, Wallingford, Conn. Filed Sept. 13, 1930.



The trade mark drawing is lined to indicate shading. No claim is made to the descriptive word "Tape" apart from the mark shown in the drawing.

For Friction Tape.
Claims use since Aug. 11, 1930.

Ser. No. 305,731. S & M LAMP CO., INCORPORATED, Los Angeles, Calif. Filed Sept. 15, 1930.



For Electric Lamps—Namely, Electric Automobile and Motorcycle Headlights, Electric Spotlights, Electric Fog Lights, Electric Trouble Lights, Electric Searchlights; Electric-Lamp Standards and Lamp Fittings, Metal Brackets, and Parts for Electric Lamps.
Claims use since Apr. 21, 1927.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 296,599. HARRY C. ISBELL, Chicago, Ill. Filed Feb. 27, 1930.

WHAM

For Slings, and Balls for Slings.
Claims use since Feb. 18, 1930.

Ser. No. 304,855. COINOMATIC CORPORATION, Buffalo, N. Y. Filed Aug. 21, 1930.

RADIO RIFLE

No claim is made to the word "Rifle" apart from the mark shown.

For Target Practise Apparatus and Targets.
Claims use since Oct. 1, 1929.

Ser. No. 305,898. PAUL CLEMENS, Bethel, Me. Filed Sept. 20, 1930.

PUPPETMASTER

For Marionettes—That is, the Figures, Stage, Cabinet, and Operating Appliances Therefor.
Claims use since Sept. 9, 1930.

Ser. No. 306,076. WESTERN PRINTING & LITHOGRAPHING COMPANY, Racine, Wis. Filed Sept. 25, 1930.

FLIGHT

For Playing Cards.
Claims use since Sept. 1, 1930.

Ser. No. 306,077. WESTERN PRINTING & LITHOGRAPHING COMPANY, Rachine, Wis. Filed Sept. 25, 1930.

POLO

For Playing Cards.
Claims use since Oct. 25, 1929.

Ser. No. 306,085. JOSH W. COOPER, doing business as J. W. Cooper and Company, New York, N. Y. Filed Sept. 26, 1930.

"GYMBOAT"

For Hydraulic Rowing Machines.
Claims use since Oct. 10, 1929.

Ser. No. 306,132. ELECTRA MANUFACTURING COMPANY, Kansas City, Mo. Filed Sept. 27, 1930.

HIGHLANDER

For Golf Clubs and Parts Thereof.
Claims use since July 1, 1930.

Ser. No. 306,459. PARKER BROTHERS, INC., Salem, Mass. Filed Oct. 6, 1930.

BIG TRAIL

For Board Game.
Claims use since Sept. 15, 1930.

Ser. No. 306,467. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Oct. 6, 1930.

Dainty Dorothy Doll

No exclusive right to the word "Doll" is claimed except in the precise relation in which it is shown in the drawing.

For Dolls.
Claims use since Sept. 1, 1915.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 284,249. IRA J. SHAPIRO, doing business as Lucky Stroke Razor Blade Company, New York, N. Y. Filed May 18, 1929.

O W L

For The Wise

For Safety-Razor Blades.
Claims use since Apr. 25, 1929.

Ser. No. 295,078. EMIL NATHAN, Jr., St. Louis, Mo. Filed Jan. 22, 1930.

KWIKWAY

For Metallic Hand-Operated Implement for Extracting Juices from Citrous Fruits.
Claims use since Nov. 14, 1929.

Ser. No. 299,101. J. C. ADAMS COMPANY, Toronto, Ontario, Canada. Filed Apr. 19, 1930.

JACO

The mark consists in the word "Jaco" displayed in blue letters on an oval orange-colored background surrounded by a blue border, as indicated by the color linings shown in the drawing.
For Spraying Apparatus—Namely, Spray Guns and Parts Thereof.
Claims use since May, 1927.

Ser. No. 299,604. TELKOR, INC., Elyria, Ohio. Filed Apr. 28, 1930.

TELKOR

For Cable-Armor Cutters.
Claims use since Sept. 26, 1929.

Ser. No. 303,456. WICACO MACHINE CORPORATION, Philadelphia, Pa. Filed July 12, 1930.

WICACO

For Spindles, for Winding Threads of Silk or Rayon, Machinery Bushings, Worm Gears, Gear Blanks, Continuous Oil Groovers, Tools, Jigs, Fixtures for the Manufacture of Interchangeable Parts for Rayon Machinery, and Rayon Spinning-Room Machinery and Equipment—Namely, Rayon-Spinning Machines, Pot Spinning Machines, Bobbin Spinning Machines, Rayon-Spinning Pumps, Both of the Gear and Piston Type, Rayon Mechanical Screw Presses, Rayon-Bundling Presses, Skein-Washing Machines, Centrifugal Washing Machines, Bleaching Machines, Reeling Machines, Mixers; Xanthaters, Godet Wheels, Candle Filters, and Jet Holders, All of Which are for the Treatment of Rayon.
Claims use since 1868 on some goods and since 1915 on rayon machinery.

Ser. No. 303,982. UNIT ELECTRIC TOOL CO., INC., Syracuse, N. Y. Filed July 29, 1930.

UNIQUIP

For Portable Power-Driven Routers.
Claims use since July 12, 1930.

Ser. No. 304,430. SAVAGE BROS. CO., Chicago, Ill. Filed Aug. 9, 1930.

SAVAGE

For Portable Candy Mixer and Cooker, Tilting Cooker and Mixer for Candy, with Steam Jacket Copper Tilting Kettle, Tilting Mixer, Double-Geared Tilting Cooker and Mixer with Steam Jacket Copper Tilting Kettle, Combination Tilting and Draw-Off Mixer for Cooking and Mixing, Double-Action Draw-Off Mixer and Cooker, Double Geared Draw-Off Mixer for Cooking and Mixing with Steam Jacket Copper Kettle, Draw-Off Floor or Gravity Mixer and Cooker with Steam Jacket Copper Kettle, Gum Kettle and Cooker and Mixer with Steam Jacket Copper Kettle, Combination Cooker and Mixer with Steam Jacket Copper Kettle, Mixer and Cooker Battery with Steam Jacket Copper Kettles, Copper Revolving Pans, Two-Way Marshmallow Cutter, Two-Way Candy Cutter, Candy Cutter, Sizing Machine, Oval-Type Marshmallow Beater, Barrel Marshmallow Beater, Marshmallow Beater, Candy Beater, Formula-Mixing Tank, Revolving-Can Mixing Machine, Steam Peanut Fryer, Chocolate Melter and Mixer, Chocolate-Coating Machine, Water-Cooled Steel Slab, Continuous Candy-Paste Cooler, Continuous Candy Cutter for Hard Candy, Mint Cutter, and Portable Motor-Driven Power Unit.
Claims use since 1904.

Ser. No. 305,021. ARTHUR HUGH TEMPLETON, Dunedin, New Zealand. Filed Aug. 25, 1930.

IVY AERATOR

The word "Aerator" is disclaimed other than as a part of the completed mark.
For Aerators Used as an Attachment for Milk and Cream Pasteurizers, Regenerators, and the Like.
Claims use since June 28, 1928.

Ser. No. 305,456. HENRY ROHWEDDER, New York, N. Y. Filed Sept. 8, 1930.

ROHER PENCIL SHARPENER

No claim is made to the words "Pencil Sharpener" apart from the mark shown in the drawing.
For Pencil Sharpener.
Claims use since July 1, 1930.

Ser. No. 305,713. EUGENE LIVINGSTON, Cass City, Mich. Filed Sept. 15, 1930.

JIFFY

For Power-Driven Litter-Handling Equipment and Stable-Cleaning Apparatus.
Claims use since Mar. 20, 1930.

Ser. No. 306,105. GEORGE F. PETTINOS, Philadelphia, Pa. Filed Sept. 26, 1930.

WHIRLWIND

For Pulverizing Machines.
Claims use since Apr. 29, 1929.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 305,146. SOFT-LITE LENS CO., INC., New York, N. Y. Filed Aug. 29, 1930.

Soft-Lite Lenses

Applicant claims ownership of registered Trade-Mark No. 91,909, registered June 3, 1913. Applicant disclaims the word "Lenses" apart from the mark as shown.
For Ophthalmic Lenses and Blanks.
Claims use since July 12, 1930.

Ser. No. 305,790. PARAMOUNT PUBLIX CORPORATION, New York, N. Y. Filed Sept. 17, 1930.

THE FAMOUS BOUNCING BALL

For Moving-Picture Films.
Claims use since July 1, 1930.

CLASS 27

Horological Instruments

Ser. No. 306,485. L. BAMBERGER & CO., Newark, N. J. Filed Oct. 7, 1930.

Chalet

For Watches.
Claims use since Sept. 9, 1930.

Ser. No. 306,572. I. OLLENDORFF CO., INC., New York, N. Y. Filed Oct. 9, 1930.

Veteran

For Watches, Clocks, and Parts Thereof.
Claims use since May 26, 1930.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 303,869. J. R. WOOD & SONS, INC., New York, N. Y. Filed July 26, 1930.

WOOD

No claim being made herein for the name "Wood" apart from the mark shown in the drawing.
For Jewelry for Personal Wear, Not Including Watches.
Claims use since June 1, 1930.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 295,315. THE INDUSTRIAL HOME FOR THE BLIND, Brooklyn, N. Y. Filed Jan. 28, 1930.

SPECIFICATION BROOM

No claim is made to the word "Broom" as shown on the accompanying drawing.
For Brooms.
Claims use since Jan. 2, 1928.

Ser. No. 306,521. ACME COTTON PRODUCTS CO., INC., New York, N. Y. Filed Oct. 8, 1930.

Snopure

For Beauty (Powder) Puffs.
Claims use since Sept. 18, 1930.

CLASS 31

Filters and Refrigerators

Ser. No. 306,022. N. V. STANDARD WATER MAATSCHAPPIJ, Amsterdam, Netherlands. Filed Sept. 24, 1930.

DIACHLOR

For Filtering Apparatus for Liquids, in Particular Water.
Claims use since February, 1930.

CLASS 32

Furniture and Upholstery

Ser. No. 291,820. COUCH BROS. MANUFACTURING CO., doing business as Atlanta Tent & Awning Company, East Point, Ga. Filed Oct. 31, 1929.

STYLE-BILT

For Couch Hammocks, Drop Curtains, and Tailored Canvas Covers for Furniture.
Claims use since June 1, 1926.

Ser. No. 297,953. BORDER QUEEN KITCHEN CABINET COMPANY, Fort Smith, Ark. Filed Mar. 27, 1930.

UTILITABLE

For Kitchen Cabinets Having Adjustable Panels Which May be Moved so as to Assume Horizontal Positions When in Use and Returned to Their Normal Vertical Positions When Not in Use.
Claims use since Aug. 24, 1929.

Ser. No. 298,466. ALICE SMITH, New York, N. Y. Filed Apr. 5, 1930.

1

For Kitchen Cabinets.
Claims use since Mar. 1, 1930.

Ser. No. 300,189. GREENPOINT METALLIC BED CO., INC., Brooklyn, N. Y. Filed May 9, 1930.

Vitarest

The lining shown on the drawing indicates the color red.
For Mattresses and Coil Bed Springs.
Claims use since Apr. 24, 1930.

Ser. No. 300,190. GREENPOINT METALLIC BED CO., INC., Brooklyn, N. Y. Filed May 9, 1930.

New Yorker

The lining on the drawings indicates the color green.
For Mattresses and Coil Bed Springs.
Claims use since July 9, 1929.

Ser. No. 303,908. THE KIEL FURNITURE CO., Milwaukee, Wis. Filed July 28, 1930.

GOLDEN VOICED

For Musical-Instrument Housings, and Specifically Housings for Sound-Reproducing Machines.
Claims use since August, 1929.

Ser. No. 305,253. TRANSFORMER CORPORATION OF AMERICA, Chicago, Ill. Filed Sept. 2, 1930.

Clarion

Applicant claims ownership of registration No. 169,387, issued June 12, 1923.
For Cabinets for Phonographs and Radio Receiving Sets.
Claims use since Nov. 1, 1921.

Ser. No. 305,798. SIMPLEX MANUFACTURING COMPANY, doing business as Simplex Mfg. Co., St. Louis, Mo. Filed Sept. 17, 1930.

Sanibath

For Infants' Bathing, Spraying, Sponging, and Dressing Tables.
Claims use since May 1, 1930.

Ser. No. 305,891. AMERICAN SEATING COMPANY, Chicago, Ill. Filed Sept. 20, 1930.



Applicant disclaims the geographical matter "Chicago, U. S. A." appearing in the drawing of the mark except in connection therewith.
For Wooden Furniture—Namely, School Seats and Desks, Theatre Chairs, Folding Chairs, and Church Pews.
Claims use since Aug. 30, 1930.

CLASS 33

Glassware

Ser. No. 289,995. THE SHATTERPROOF GLASS CO., Detroit, Mich. Filed Sept. 19, 1929.

SHAT R PROOF

The word "Shat R Proof" is not claimed apart from the mark as shown in the drawing.
For Sheet, Crystal, Plate, and Window Glass.
Claims use since June 15, 1928.

CLASS 34

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus

Ser. No. 289,765. SMITH WELDING EQUIPMENT CORPORATION, Minneapolis, Minn. Filed Sept. 13, 1929.

Lifetime

For Oxyacetylene Welding and Cutting Tips and Equipment.
Claims use since Aug. 21, 1929.

Ser. No. 296,963. FOSTER WHEELER CORPORATION, New York, N. Y. Filed Mar. 7, 1930.

FW

For Plate Air Heaters, Condensers, Economizers, Evaporators, Feed-Water Heaters, Counterflow Tubular Heat Exchangers, Pulverized-Coal Equipment, Superheaters, and Water-Cooled Furnaces.
Claims use since Jan. 16, 1930.

Ser. No. 302,850. THE BROWNELL COMPANY, Dayton, Ohio. Filed June 26, 1930.



The words "Dayton Ohio, U. S. A." form no part of applicant's trade-mark except as herein shown.
For Boilers, Stokers, and Oil, Gas, and Coal Hot-Water and Steam Heaters.
Claims use since June 10, 1930.

Ser. No. 305,861. THE HOTSTREAM HEATER COMPANY, Cleveland, Ohio. Filed Sept. 19, 1930.

Draft-O-Stat

The word "Draft" is disclaimed apart from the mark as shown.
For Automatic Draft Controls.
Claims use since Sept. 5, 1930.

Ser. No. 305,979. OLD BEN COAL CORPORATION, Chicago, Ill. Filed Sept. 23, 1930.

GASTOKER

For Automatic Heaters and Automatic Furnaces Using Coal as Fuel.
Claims use since Sept. 3, 1929.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 299,607. VICTOR MANUFACTURING & GASKET CO., Chicago, Ill. Filed Apr. 28, 1930.



The drawing is lined for blue.
For Gaskets.
Claims use since Jan. 1, 1925.

CLASS 36

Musical Instruments and Supplies

Ser. No. 305,390. CLARION MUSIC CORPORATION, Bridgeport, Conn. Filed Sept. 6, 1930.

CLARION

For Phonograph Records.
Claims use since Aug. 11, 1930.

CLASS 37

Paper and Stationery

Ser. No. 266,165. A. F. A. LEARN & EARN SYSTEM, Evansville, Ind. Filed May 9, 1928.

A.F.A. LEARN-EARN SYSTEM
EDUCATION THE GREATEST INDUSTRY IN THE WORLD

For Partially-Printed Forms.
Claims use since Mar. 26, 1928.

Ser. No. 303,226. CLARK A. THARP, Leavenworth, Kans. Filed July 7, 1930.

THARP SPECIALTY CO.
Rite-Site
TRADE MARK
LEAVENWORTH, KAN.

Applicant disclaims the words "Trade-Mark" and "Leavenworth Kansas."
For Copyholders for Typists.
Claims use since May 1, 1929.

Ser. No. 303,914. MERSEY PAPER COMPANY, LIMITED, Brooklyn, Nova Scotia. Filed July 28, 1930.

MERSEY PAPER COMPANY LIMITED
LIVERPOOL NOVA SCOTIA
MERSEY

The words "Liverpool" and "Nova Scotia" are hereby disclaimed apart from the mark shown.
For Newsprint Paper.
Claims use since Dec. 5, 1929.

Ser. No. 305,465. SKINNER & KENNEDY PRINTING COMPANY, St. Louis, Mo. Filed Sept. 8, 1930.

Praiseworthy Parchment

The word "Parchment" is hereby disclaimed apart from the mark as shown.
For Bond Paper.
Claims use since Mar. 31, 1930.

CLASS 38

Prints and Publications

Ser. No. 298,886. THE BUEHLER PRINTCRAFT CO., doing business as Cleveland Club Life, Inc., Cleveland, Ohio. Filed Apr. 15, 1930.

CLEVELAND CLUB LIFE

For Monthly Magazine.
Claims use since Jan. 1, 1930.

Ser. No. 303,064. THE MERCHANDISE MART REPORTER, Chicago, Ill. Filed July 2, 1930.

THE MERCHANDISE MART REPORTER

For Periodical Publication.
Claims use since June 11, 1930.

Ser. No. 303,865. BENJAMIN VINE, doing business as South Jersey Home Service, Woodstown, N. J. Filed July 26, 1930.



Applicant hereby disclaims any right of the representation of a box and to all the words in the trade-mark except the word "Wonder."
For Greeting Cards for All Occasions, Such as Christmas Cards, Birthday Cards, Convalescent Cards, Cards of Sympathy, Easter Cards, Acknowledgments, and Cards for All Special Days and Occasions.
Claims use since Mar. 7, 1927.

Ser. No. 304,729. HENRY H. LESTICO, Los Angeles, Calif. Filed Aug. 18, 1930.

CHAIN STORE MANAGEMENT

For Periodical.
Claims use since May 15, 1930.

Ser. No. 305,283. MERCANTILE DIRECTORIES PUBLISHING CO. INC., New York, N. Y. Filed Sept. 3, 1930.

The BUYER'S NEED

For Periodical Advertising Publication.
Claims use since Jan. 1, 1929.

Ser. No. 306,316. INTERNATIONAL FEATURE SERVICE, INC., New York, N. Y. Filed Oct. 2, 1930.

Romances of Gloriette

For Newspaper Section.
Claims use since Aug. 16, 1930.

Ser. No. 306,363. CARL D. NEWTON, doing business as The Flying Film Co., San Antonio, Tex. Filed Oct. 8, 1930.



For Photographic Prints.
Claims use since June 26, 1929.

Ser. No. 306,584. WATER MOTORING, INC., Waukegan, Ill. Filed Oct. 9, 1930.

WATER MOTORING

For Periodical Publication.
Claims use since December, 1927.

Ser. No. 306,625. UNITED STATES INFANTRY ASSOCIATION, Washington, D. C. Filed Oct. 10, 1930.

INFANTRY JOURNAL

For Monthly Periodical.
Claims use since Jan. 1, 1904.

CLASS 39

Clothing

Ser. No. 285,657. BROOKS CLOTHING COMPANY, Los Angeles, Calif. Filed June 17, 1929.

Brooks

Applicant disclaims the right to the exclusive use of the surname "Brooks" except in association with the rest of the trade mark as shown.
For Men's Outer Clothing—Namely, Suits, Overcoats, Top Coats, Pants, and Hats.
Claims use since Apr. 1, 1923.

Ser. No. 298,256. ROOS BROS., INC., San Francisco, Calif. Filed Apr. 1, 1930.



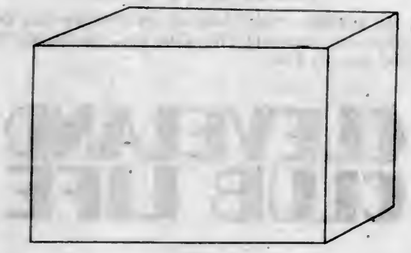
The drawing is lined for the colors red and blue.
For Men's Suits.
Claims use since Jan. 1, 1930.

Ser. No. 301,936. IRVING SHOE COMPANY, Chicago, Ill. Filed May 31, 1930.

Helt-O-Pedic
ARCH SHOES

No claim is made to the words "Arch Shoes" except in the association shown.
For Leather or Fabric Shoes.
Claims use since June 19, 1929.

Ser. No. 303,198. LOUIS MEYERS & SON, INC., New York, N. Y. Filed July 7, 1930.



For Gloves of Leather and Fabric.
Claims use since Feb. 1, 1930.

Ser. No. 304,330. LOUISE M. JONES, Tacoma, Wash. Filed Aug. 7, 1930.

Marcellette

For Bathing Caps.
Claims use since July 9, 1930.

Ser. No. 304,886. E. B. PIEKENBROCK & SONS COMPANY, Dubuque, Iowa. Filed Aug. 21, 1930.

THE MODERN FIVE $5

The word "Modern" and the expression "$5" are disclaimed except in association with the rest of the mark as shown.
For Shoes Made of Leather.
Claims use since Aug. 1, 1930.

Ser. No. 305,556. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed Sept. 10, 1930.

PENI-ARCH

For Men's, Women's, and Children's Shoes of Leather, Rubber, Fabric, or Combinations Thereof.
Claims use since Aug. 5, 1930.

Ser. No. 305,784. LA SALLE HOSIERY COMPANY, Philadelphia, Pa. Filed Sept. 17, 1930.

CARMALOK

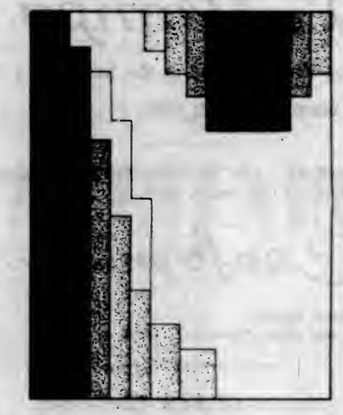
For Hosiery.
Claims use since July 31, 1930.

Ser. No. 305,810. ALBERT GIVEN MANUFACTURING COMPANY, East Chicago, Ind. Filed Sept. 18, 1930.

COLLEGE YELLS

For Men's Trousers, Suits, Coats, and Vests of Corduroy and Other Fabrics.
Claims use since March, 1930.

Ser. No. 305,819. WALTER J. MCCLELLAND, New York, N. Y. Filed Sept. 18, 1930.



For Hosiery.
Claims use since July, 1930.

Ser. No. 305,850. THE DARTMOOR COAT CO., INC., New York, N. Y. Filed Sept. 19, 1930.

Dartrobe

For Men's and Women's Top Coats.
Claims use since Sept. 10, 1930.

Ser. No. 305,935. FREDERICK W. PEETZ, St. Louis, Mo. Filed Sept. 22, 1930.

PLEETOOX

For Barbers' Hair Cloths.
Claims use since Sept. 25, 1928.

Ser. No. 305,964. E. H. CLAPP RUBBER COMPANY, Boston, Mass. Filed Sept. 23, 1930.

TUFTEX

For Rubber Heels.
Claims use since June 6, 1930.

Ser. No. 305,972. INTERNATIONAL SHOE CO., St. Louis, Mo. Filed Sept. 23, 1930.

SURPRISE

For Boots and Shoes of Leather.
Claims use since Sept. 15, 1930.

Ser. No. 306,003. DOBBS & CO., New York, N. Y. Filed Sept. 24, 1930.

Bagatelle

For Hats for Women.
Claims use since Sept. 19, 1930.

Ser. No. 306,018. SOHN OPPENHEIMER & CO., New York, N. Y. Filed Sept. 24, 1930.

Tom Thumb

For Men's, Boys', and Youths' Clothing—Namely, Suits, Coats, Vests, Trousers, and Overcoats.
Claims use since Sept 11, 1930.

Ser. No. 306,049. CENTURY GLOVE COMPANY, Newark, N. J. Filed Sept. 25, 1930.

CENTURY 100 GLOVE CO

For Gloves of Silk, Rayon, Wool, Flannel, Chamoisette, and Leather and/or any Combinations Thereof.
Claims use Since Nov. 12, 1928.

Ser. No. 306,072. EMANUEL SCHOENFELD, Harrisburg, Pa. Filed Sept. 25, 1930.

Ped-A-Rest

For Leather Shoes.
Claims use since Sept. 1, 1926.

Ser. No. 306,187. KLINE'S, INCORPORATED, St. Louis, Mo. Filed Sept. 29, 1930.

Ellen Louise

For Ladies' Dresses.
Claims use since Sept. 2, 1930.

Ser. No. 306,218. CAHN-WILE CO. INC., New York, N. Y. Filed Sept 26, 1930.

BEAVERPAN

For Men's, Women's, and Children's Wearing Apparel—Namely, Suits, Dresses, Skirts for Outer Wear, Hats, Coats, Waists for Outer Wear, Sweaters, Overcoats, Collars, and Scarfs.
Claims use since June 1, 1930.

Ser. No. 306,237. L. GREIF & BRO., INCORPORATED, Baltimore, Md. Filed Sept. 30, 1930.

Sturdy-test

For Topcoats, Overcoats, Coats, Vests, Trousers, and Knickerbockers for Men, Youths, and Boys.
Claims use since Feb. 10, 1930.

Ser. No. 306,266. THE H. W. GOSSARD CO., Chicago, Ill. Filed Oct. 1, 1930.

Miss Simplicity

For Combination Garments for Women Comprising a Corset and Brassière.
Claims use since Aug. 30, 1930.

Ser. No. 306,307. MAX BAUER, INCORPORATED, New York, N. Y. Filed Oct. 2, 1930.

FROST KING

For Coats, Suits, Combination Play Suits, Hats, and Overcoats for Boys and Girls.
Claims use since June, 1930.

Ser. No. 306,332. VAN RAALTE COMPANY, New York, N. Y. Filed Oct. 2, 1930.

Warmsies

For Underwear of Knitted Fabric for Women and Children.
Claims use since Sept. 26, 1930.

Ser. No. 306,347. MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Oct. 3, 1930.

PAJAGOWNS

For Sleeping Garment.
Claims use since Aug. 1, 1930.

Ser. No. 306,449. LORD & TAYLOR, New York, N. Y. Filed Oct. 6, 1930.

L'AVENUE

For Boots, Shoes, and Slippers of Leather, Rubber, or Fabric and/or Combination Thereof for Men, Women, and Children.
Claims use since Sept. 26, 1930.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 306,407. PAUL MARIANI, New York, N. Y. Filed Oct. 4, 1930.

La Vampa

For Shoe-Heel Ornament in the Nature of a Spring Clasp.
Claims use since Mar. 22, 1930.

Ser. No. 306,533. I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed Oct. 8, 1930.

Conforma

For Dress Shields.
Claims use since November, 1928.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 288,591. C. M. DE LAND, New York, N. Y. Filed Aug. 16, 1929.

Tally-ho

For All-Wool Cloth in Piece Goods.
Claims use since Apr. 1, 1929.

Ser. No. 297,837. FREUND, FREUND & CO., New York, N. Y. Filed Mar. 25, 1930.

FREEDOM TICKINGS

No claim is made to the word "Tickings" apart from the mark shown in the drawing. The lining in the words "Freedom Tickings" represents red color.
For Ready-Made Bed Ticking and in the Piece.
Claims use since September, 1929.

Ser. No. 299,263. EMSHEIMER & SAHLEIN, New York, N. Y. Filed Apr. 22, 1930.

CHINON

For Silk Fabrics, Rayon Fabrics, and Woolen Fabrics.
Claims use since Sept. 5, 1929.

Ser. No. 303,334. MARTIN DYEING AND FINISHING CO., Bridgeton, N. J. Filed July 10, 1930.

MARTEXIN

For Cotton Piece Goods.
Claims use since June 27, 1930.

Ser. No. 303,335. METCALF BROTHERS & CO., New York, N. Y. Filed July 10, 1930.

WANSKONA

For Woolen Piece Goods and for Woolen Piece Goods to be Used in the Manufacture of Overcoats.
Claims use since Apr. 18, 1930.

Ser. No. 303,728. RHODE ISLAND PLUSH MILLS, INC., Woonsocket, R. I. Filed July 22, 1930.

PACALAMA

For Pile Fabrics.
Claims use since Jan. 25, 1930.

CLASS 43

Thread and Yarn

Ser. No. 256,702. AMERICAN GLANZSTOFF CORPORATION, New York, N. Y. Filed Oct. 28, 1927.

GLANZSTOFF

For Artificial Silk in Thread and Yarn Form.
Claims use since Sept. 25, 1925.

Ser. No. 256,703. AMERICAN GLANZSTOFF CORPORATION, New York, N. Y. Filed Oct. 28, 1927.

GLANZSTOFF

For Artificial Silk in Thread and Yarn Form.
Claims use since Jan. 1, 1927.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 295,257. ELECTRIC HOUSEHOLD UTILITIES CORPORATION, doing business as Hurley Machine Company, Chicago, Ill. Filed Jan. 27, 1930.

Thor
Double Benefit

The term "Benefit" is disclaimed apart from the mark as shown or any confusingly-similar variant thereof.
For Arc Lamps for Health Treatment Purposes, Ultra-Violet-Ray Lamps, Infra-Red-Ray Generators, and Similar Therapeutic Appliances.
Claims use since Oct. 2, 1929.

Ser. No. 304,052. AUG. KONGSTED, doing business as Løvens kemiske Fabrik ved A. Kongsted, Copenhagen, Denmark. Filed July 31, 1930.

LEO—HÆMODETECTOR

For Appliances and Equipment for Use in the Detection of Blood for Doctors' Scientific Purposes.
Claims use since February, 1924.

Ser. No. 304,904. AMERICAN NARROW FABRIC COMPANY, Worcester, Mass. Filed Aug. 22, 1930.

CURVETTE

For Sanitary Belts or Waistbands.
Claims use since about Oct. 1, 1929.

Ser. No. 305,739. UNITED STATES RUBBER COMPANY, New York, N. Y. Filed Sept. 15, 1930.

UNIKA

For Finger Cots.
Claims use since Apr. 4, 1916.

Ser. No. 306,500. MCMANUS LABORATORIES, INC., New York and Brooklyn, N. Y. Filed Oct. 7, 1930.

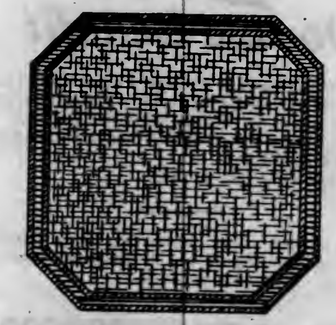


The drawing being stippled for shading purposes only and the figure being fanciful.
For Heating Pads Used in Connection with Permanent-Wave Machines.
Claims use since May 1, 1929.

CLASS 45

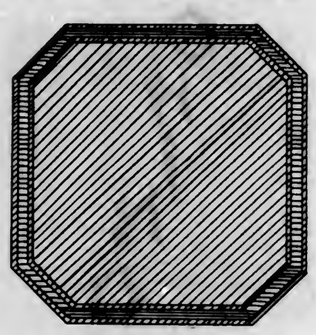
Beverages, Nonalcoholic

Ser. No. 304,233. CALIFORNIA CRUSHED FRUIT CORPORATION, Los Angeles, Calif. Filed Aug. 5, 1930.



The drawing is lined for yellow, blue, and brown.
For Nonalcoholic, Maltless, Noncereal Beverages and Syrups, Extracts, and Concentrates for Use in Preparing the Same.
Claims use since Jan. 1, 1930.

Ser. No. 304,234. CALIFORNIA CRUSHED FRUIT CORPORATION, Los Angeles, Calif. Filed Aug. 5, 1930.



The drawing is lined for purple, blue, and brown.
For Nonalcoholic, Maltless, Noncereal Beverages and Syrups, Extracts, and Concentrates for Use in Preparing the Same.
Claims use since Jan. 1, 1928.

Ser. No. 305,411. PAUL MARGOLIS, doing business as Hamilton Bottling Works, Waterbury, Conn. Filed Sept. 6, 1930.



Exclusive use of the word "Brand" is disclaimed.
For Carbonated, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.
Claims use since July 10, 1923.

Ser. No. 305,441. LOCOA COMPANY, INC., doing business as Celo Company of America, Tampa, Fla. Filed Sept. 8, 1930.

LIMEDINE

No claim is made to the exclusive use of the adjectival portion "Lime" constituting a salient feature of the mark shown in the drawings.
For Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink.
Claims use since June 9, 1930.

Ser. No. 305,442. LOCOA COMPANY, INC., doing business as Celo Company of America, Tampa, Fla. Filed Sept. 8, 1930.

STRAWBERRYDINE

No claim is made to the exclusive use of the adjectival portion "Strawberry" constituting a salient feature of the mark shown in the drawing.
For Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink.
Claims use since June 9, 1930.

Ser. No. 305,443. LOCOA COMPANY, INC., doing business as Celo Company of America, Tampa, Fla. Filed Sept. 8, 1930.

LEMONDINE

No claim is made to the exclusive use of the adjectival portion "Lemon" constituting a salient feature of the mark shown in the drawing.
For Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink.
Claims use since June 9, 1930.

Ser. No. 305,444. LOCOA COMPANY, INC., doing business as Celo Company of America, Tampa, Fla. Filed Sept. 8, 1930.

PINEAPPLEDINE

No claim is made to the exclusive use of the adjectival portion "Pineapple" constituting a salient feature of the mark shown in the drawings.
For Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink.
Claims use since June 9, 1930.

Ser. No. 305,445. LOCOA COMPANY, INC., doing business as Celo Company of America, Tampa, Fla. Filed Sept. 8, 1930.

GRAPEDINE

No claim is made to the exclusive use of the adjectival portion "Grape" constituting a salient feature of the mark shown in the drawings.
For Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink.
Claims use since June 9, 1930.

Ser. No. 305,446. LOCOA COMPANY, INC., doing business as Celo Company of America, Tampa, Fla. Filed Sept. 8, 1930.

ORANGEDINE

No claim is made to the exclusive use of the adjectival portion "Orange" constituting a salient feature of the shown in the drawings.
For Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink.
Claims use since June 9, 1930.

Ser. No. 305,447. LOCOA COMPANY, INC., doing business as Celo Company of America, Tampa, Fla. Filed Sept. 8, 1930.

CHERRYDINE

No claim is made to the exclusive use of the adjectival portion "Cherry" constituting a salient feature of the mark shown in the drawings.
For Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink.
Claims use since June 9, 1930.

Ser. No. 305,448. LOCOA COMPANY, INC., doing business as Celo Company of America, Tampa, Fla. Filed Sept. 8, 1930.

CELERYDINE

No claim is made to the exclusive use of the adjectival portion "Celery" constituting a salient feature of the mark shown in the drawings.
For Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink.
Claims use since June 9, 1930.

Ser. No. 305,948. JAMES VERNOR COMPANY, Detroit, Mich. Filed Sept. 22, 1930.



The drawing is lined for yellow.
For Ginger Ale.
Claims use since July, 1921.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 283,276. HUGHES CURRY PACKING COMPANY, Anderson, Ind. Filed Apr. 30, 1929.

H&C

For French Dressing, Thousand Island Dressing, Mayonnaise, Sandwich Spreads, and Oleomargarine.
Claims use since Jan. 1, 1927.

Ser. No. 290,191. OTATO CORPORATION, New York, N. Y. Filed Sept. 24, 1929.

OTATO

For Desiccated Potatoes in Powdered or Flour Form.
Claims use since Aug. 24, 1929.

Ser. No. 290,192. OTATO CORPORATION, New York, N. Y. Filed Sept. 24, 1920.



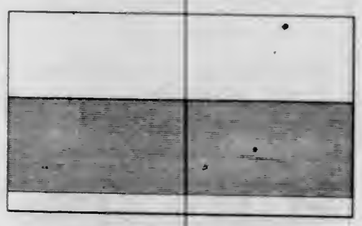
For Desiccated Potatoes in Powdered or Flour Form.
Claims use since Aug. 2, 1929.

Ser. No. 290,193. OTATO CORPORATION, New York, N. Y. Filed Sept. 24, 1929.

OGRAIN

For Desiccated Potatoes in Powdered or Flour Form.
Claims use since Aug. 2, 1929.

Ser. No. 293,364. CURTICE BROTHERS CO., Rochester, N. Y. Filed Dec. 7, 1929.



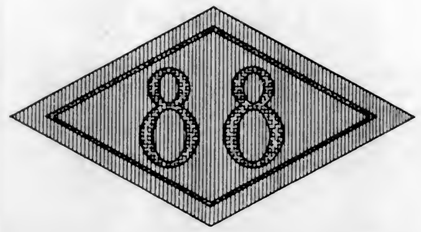
The drawing is lined to denote the color blue.
For Canned Fruits and Vegetables, Table Syrup, Boned Chicken, and Chicken Broth.
Claims use since July, 1924.

Ser. No. 297,082. KINGAN & CO., INCORPORATED, Indianapolis, Ind. Filed Mar. 10, 1930. Under section 5b of the act of 1905, as amended in 1920.

KINGAN'S "RELIABLE"

Applicant is the owner of registration Number 115,766 effected under the 10-year proviso of the 1905 act.
For Cheese.
Claims use since Jan. 1, 1919.

Ser. No. 298,860. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed Apr. 14, 1930.



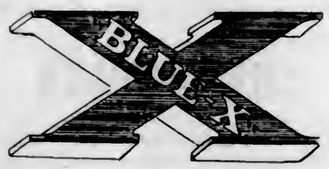
Applicant herein makes no claim to the colors red and yellow as indicated by the lining and crosshatching on the drawing except when used in connection with the trade-mark as shown.
For Coffee.
Claims use since March, 1914.

Ser. No. 300,445. THE SNELL MILLING CO., Nashville, Tenn. Filed May 13, 1930.



The words "Truli-Good" shown on the drawing of the mark are disclaimed apart from the rest of the mark, for purpose of registration only. The picture shown on the drawing is fanciful.
For Wheat Flour.
Claims use since Mar. 3, 1926.

Ser. No. 301,826. CALIFORNIA FRUIT EXCHANGE. Sacramento and Loomis, Calif. Filed May 31, 1930.



For Fresh Deciduous Fruits.
Claims use since on or about Apr. 21, 1930.

Ser. No. 302,166. W. F. SCHRAFFT & SONS CORPORATION, Boston, Mass. Filed June 4, 1930. Under 10-year proviso.

SCHRAFFT'S

For Confectionery—Namely, Chocolate, Milk Chocolate, Chocolate Candy, Hard Candy, Cream Candy, Bonbons, Both Plain and in Combination with Fruit and Nuts, Marshmallows, Caramels, Mint Candy, Peanut Brittle; Unsalted Nuts, Salted Nuts; Fruit Preserves and Fruit Jellies—Namely, Orange Marmalade, Guava Jelly, Red-Current Jelly, Strawberry Jam, Strawberry Preserve, Fig Preserve, Pepper Jam; Condiments—Namely, Mayonnaise, Salad Dressing, Pepper Hash; Sauces Used for Flavoring Foods—Namely, Butterscotch Sauce, Chocolate-Fudge Sauce, Frozen Pudding Sauce, Cake Frosting; Ice Cream; Tea, Coffee; Bakery Products—Namely, Bread, Rolls, Breads Containing Bran and/or Nuts, Cakes, Cookies, and Doughnuts
Claims use since February, 1890.

Ser. No. 302,243. FOOD FLAVORS CORP., New York, N. Y. Filed June 7, 1930.



For Food Flavors.
Claims use since Apr. 24, 1930.

Ser. No. 302,503. A. A. ANKENY, doing business as Ankeny, Inc., Rochelle, Ill. Filed June 17, 1930.



For Fresh Tomatoes and Cucumbers.
Claims use since Oct. 8, 1929.

Ser. No. 302,570. H. C. BOHACK CO., INC., Brooklyn, N. Y. Filed June 19, 1930.



The color lining indicated on the drawing is for shading. No claim is made to the word "Coffee" apart from the mark as shown.
For Coffee.
Claims use since Jan. 1, 1920.

Ser. No. 302,621. BALFOUR GUTHRIE & COMPANY, San Francisco, Calif. Filed June 20, 1930.

STAGHOUND

For Canned Fruits, Dried Fruits, Canned Vegetables, Fresh Deciduous Fruits and Fresh Citrus Fruits, Fresh Vegetables, Canned Fish.
Claims use since September, 1925.

Ser. No. 302,713. ZUCCA'S FOOD PRODUCTS CORP., New York, N. Y. Filed June 21, 1930.



No claim is made to the words "Tomato and Mushroom Sauce" apart from the mark as shown. The drawing is lined for shading. The name "C. L. Zucca" is a facsimile signature of the president of applicant corporation.
For Prepared Foods—Namely, Tomato and Mushroom Sauce.
Claims use since June 5, 1930.

Ser. No. 302,714. ZUCCA'S FOOD PRODUCTS CORP., New York, N. Y. Filed June 21, 1930.



No claim is made to the words "Famous Spaghetti Dinner" apart from the mark as shown.
For Prepared Foods—Namely, Spaghetti.
Claims use since May 22, 1930.

Ser. No. 303,542. NELLE EDE MONTAGUE, San Angelo, Tex. Filed July 16, 1930.

NEDEM

For Marmalades, Jellies, and Mixed Pickles.
Claims use since Feb. 3, 1930.

Ser. No. 303,785. C. B. RAGLAND COMPANY, Nashville, Tenn. Filed July 24, 1930.

LUCKY LADY

For Wheat Flour.
Claims use since September, 1928.

Ser. No. 303,863. ROYAL BAKING POWDER COMPANY, New York, N. Y. Filed July 26, 1930.



The drawing is lined to indicate the colors red, yellow, and blue commonly used in displaying the mark. Applicant makes no claim to the exclusive right to use any of the words displayed upon said trade-mark (other than the word "Royal") apart from the mark as shown.
For Gelatin Desserts.
Claims use since Dec. 27, 1929.

Ser. No. 304,288. ROBERT O. KUNZE, Richmond Hill, N. Y. Filed Aug. 6, 1930.

SEDROCK

For Coffee.
Claims use since July 14, 1930.

Ser. No. 304,482. ZOOLOGICAL MEAT SUPPLY CO., Center Line, Mich. Filed Aug. 11, 1930.

DINNER BELL

The lines drawn through the words "Dinner Bell" represent shading or other means of emphasis.
For Canned Animal Food.
Claims use since Feb. 1, 1929.

Ser. No. 305,010. C. M. MICKELBERRY, INC., Chicago, Ill. Filed Aug. 25, 1930.

C. M. Mickelberry Inc.

The words "C. M. Mickelberry, Inc." are disclaimed apart from the mark as shown.
For Corn-Meal Mush.
Claims use since July 5, 1930.

Ser. No. 305,040. ADÈLE S. FRIEDLANDER, San Francisco, Calif. Filed Aug. 26, 1930.

Prunk

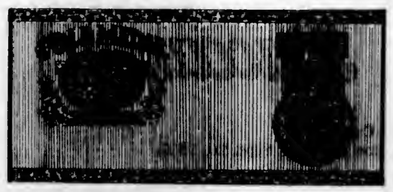
For Prune Cake.
Claims use since May 31, 1930.

Ser. No. 305,092. STATESVILLE FLOUR MILLS CO., Statesville, N. C. Filed Aug. 27, 1930.



No claim is made to the name "Statesville" apart from the mark as shown.
For Plain or Self-Rising Wheat Flour.
Claims use since June 15, 1930.

Ser. No. 305,312. GOLDEN STAR PLANTING & MFG. CO. INC., New Orleans, La. Filed Sept. 4, 1930.



The lining in the drawing indicates the colors red and gold, which colors are essential features of the mark. Applicant disclaims the words "Gold Medal" except in the precise relation and association in which the same appear herein.
For Table and Cooking Syrups.
Claims use since Jan. 16, 1930.

Ser. No. 305,397. EUCLID CANDY COMPANY OF CALIFORNIA, INCORPORATED, San Francisco, Calif. Filed Sept. 6, 1930.

Lady Luck

For Candy.
Claims use since June, 1929.

Ser. No. 305,428. THE WHITNEY-ECKSTEIN SEED CO., Buffalo, N. Y. Filed Sept. 6, 1930.

SINGMOR

For Bird Food.
Claims use since July 1, 1930.

Ser. No. 305,664. ROBERT A. JOHNSTON COMPANY, Milwaukee, Wis. Filed Sept. 13, 1930.

PADDLE POP

For Liquid Coating for Ice Cream.
Claims use since July 20, 1929.

Ser. No. 305,672. WILLIAM F. MULHERIN, doing business as Excelsior Supply Co., Syracuse, N. Y. Filed Sept. 13, 1930.

AMERICAN GIRL

For Malt Syrup.
Claims use since Aug. 25, 1930.

Ser. No. 305,722. THE NUTRADIET COMPANY, San Francisco, Calif. Filed Sept. 15, 1930.

NUTRA-MEN

For Cereal Breakfast Food.
Claims use since Aug. 29, 1930.

Ser. No. 305,831. SANITARY GROCERY COMPANY, INCORPORATED, Washington, D. C. Filed Sept. 18, 1930.

SANICO

For Spaghetti, Macaroni, Egg Noodles, Canned Peas, Canned Corn, Canned Tomatoes, Sandwich Spread, Pancake Flour, Jelly, Ice Cream, and Tea.
Claims use since Aug. 17, 1929, on Peas; since Sept. 7, 1929, on Corn; since Sept. 28, 1929, on Sandwich Spread; since Sept. 21, 1929, on Pancake flour; since July 20, 1929, on Jelly; since Apr. 30, 1930, on Macaroni; since Apr. 30, 1930, on Noodles; since Apr. 30, 1930, on Spaghetti; since Aug. 4, 1930, on ice cream; since Sept. 3, 1930, on Tomatoes; and since Sept. 6, 1930, on Tea.

Ser. No. 306,006. M & R DIETETIC LABORATORIES, INC., Columbus, Ohio. Filed Sept. 24, 1930.



No claim is made to the words "Pasteurized," "Spray Process," and "Columbus, Ohio, U. S. A." apart from the mark as shown in the drawing.
For Powdered Skimmed Milk and Powdered Whole Milk.
Claims use since Jan. 1, 1925.

Ser. No. 306,239. WILLIAM B. JACKSON, doing business as Jackson Candy Company, Martin, Tenn. Filed Sept. 30, 1930.



The word "Sweets" not being claimed apart from the other features of the mark.
For Peanut and Cocoanut Bar.
Claims use since June 1, 1930.

Ser. No. 306,257. BROOKLYN MACARONI CO., INC., Brooklyn, N. Y. Filed Oct. 1, 1930.

MY DARLING

For Alimentary Paste Products.
Claims use since July, 1929.

Ser. No. 306,353. DAVID ISRIN, doing business as D. Isrin Company, New York, N. Y. Filed Oct. 3, 1930.

«KAWE»

For Candy.
Claims use since Mar. 6, 1929.

Ser. No. 306,397. GENTILE BROS. COMPANY, Orlando, Fla. Filed Oct. 4, 1930.

RED PRINCE



The drawing is lined for red.
For Fresh Citrus Fruits.
Claims use since Nov. 1, 1929.

Ser. No. 306,510. SPITZ, ARNSTEIN & CO. INC., New York, N. Y. Filed Oct. 7, 1930.

ROVER

For Candies.
Claims use since Sept. 22, 1930.

Ser. No. 306,561. EAGLE ROLLER MILL CO., INC., Shelby, N. C. Filed Oct. 9, 1930.

ALWAYS HIT

For Wheat Flour.
Claims use since Aug. 1, 1916.

Ser. No. 306,619. NORRIS, INC., Atlanta, Ga. Filed Oct. 10, 1930.

Buccaneer

For Candy.
Claims use since Sept. 20, 1930.

Ser. No. 306,638. J. ARON & COMPANY, INC., New York, N. Y. Filed Oct. 11, 1930.

J.A.&Co.

MIKE

For Green Coffee.
Claims use since August, 1929.

Ser. No. 306,697. ECONOMY FOOD PRODUCTS COMPANY, Cambridge, Mass. Filed Oct. 13, 1930.

DO-NUT-ENE

For Prepared Flour for Making Doughnuts, Fried Cakes, and Crullers.
Claims use since Sept. 18, 1930.

CLASS 48

Malt Beverages and Liquors

Ser. No. 306,145. C. SCHMIDT & SONS, INCORPORATED, Philadelphia, Pa. Filed Sept. 27, 1930.

GOLD SEAL

For Malt Beverage Containing Less Than One-Half of One Percent Alcohol by Volume.
Claims use since Sept. 11, 1930.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 301,076. THE UPSON-WALTON COMPANY, Cleveland, Ohio. Filed May 22, 1930.

XXXX

For Waterproof Flax, Waterproofed Flax Duck, and Waterproofed Flax Canvas.
Claims use since 1896.

Ser. No. 301,077. THE UPSON-WALTON COMPANY, Cleveland, Ohio. Filed May 22, 1930.

XXX

For Waterproof Flax, Waterproofed Flax Duck, and Waterproofed Flax Canvas.
Claims use since 1896.

Ser. No. 301,078. THE UPSON-WALTON COMPANY, Cleveland, Ohio. Filed May 22, 1930.

XX

For Waterproof Flax, Waterproofed Flax Duck, and Waterproofed Flax Canvas.
Claims use since 1896.

Ser. No. 301,079. THE UPSON-WALTON COMPANY, Cleveland, Ohio. Filed May 22, 1930.

X

For Waterproof Flax, Waterproofed Flax Duck, and Waterproofed Flax Canvas.
Claims use since 1896.

Ser. No. 304,239. EMPIRE METAL CAP CO., INC., Brooklyn, N. Y. Filed Aug. 5, 1930.



The trade-mark consists of a narrow circle of blue color appearing upon the top surface of the cap arranged substantially concentric with the margin of said surface and in close association with a second circle substantially concentric therewith formed as a serpentine depression of said surface. No claim is made to the representation of a cap.
For Sheet-Metal Caps for Bottles and Jars.
Claims use since Dec. 30, 1927.

Ser. No. 305,578. THE CLIFFORD W. MAISH BEDDING COMPANY, Cincinnati, Ohio. Filed Sept. 11, 1930.

UNIVERSAL

For Furniture Covers for Protecting Furniture During Shipment and Storage.
Claims use since Feb. 1, 1930.

Ser. No. 306,329. TURN-RITE PROCESS CO., INC., Philadelphia, Pa. Filed Oct. 2, 1930.

TURN-RITE

For Shoe Lasts.
Claims use since Aug. 15, 1930.

CARNEGIE LIBRARY OF ATLANTA

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

NOVEMBER 18, 1930

277,530. GOLF BALLS. WALGREEN COMPANY, Chicago, Ill.
Filed June 16, 1930. Serial No. 302,500. PUBLISHED AUGUST 12, 1930. Class 22.

277,531. COTTON, LINEN, ARTIFICIAL AND NATURAL SILK GOODS, PLAIN, COLORED, AND PRINTED, IN PIECES. MARVLO MILLS, INC., New York, N. Y.
Filed June 14, 1930. Serial No. 302,438. PUBLISHED AUGUST 12, 1930. Class 42.

277,532. WOOLEN GOODS IN THE PIECE AND IN CUT LENGTHS. S. STEIN & Co., New York, N. Y.
Filed June 13, 1930. Serial No. 302,417. PUBLISHED AUGUST 19, 1930. Class 42.

277,533. PORTABLE PLAY POOLS AND SAND BOXES. THE HETTRICK MANUFACTURING COMPANY, Toledo, Ohio.
Filed June 13, 1930. Serial No. 302,396. PUBLISHED AUGUST 26, 1930. Class 22.

277,534. SAILS USED FOR SKATING. THE HETTRICK MANUFACTURING COMPANY, Toledo, Ohio.
Filed June 13, 1930. Serial No. 302,392. PUBLISHED SEPTEMBER 2, 1930. Class 22.

277,535. SILK PIECE GOODS. EMPIRE SILK COMPANY, New York, N. Y.
Filed June 13, 1930. Serial No. 302,376. PUBLISHED AUGUST 12, 1930. Class 42.

277,536. FERTILIZER REFILLS FOR USE IN FERTILIZER DISPENSERS OR DISPENSING APPARATUS. VEX SALES CORPORATION, Chicago, Ill.
Filed June 9, 1930. Serial No. 302,294. PUBLISHED SEPTEMBER 2, 1930. Class 10.

277,537. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed June 7, 1930. Serial No. 302,245. PUBLISHED AUGUST 19, 1930. Class 42.

277,538. FINGER-WAVING LOTION, BRILLIANTINE, OIL FOR HOT-OIL SHAMPOO, CASTILE-SOAP SHAMPOO, AND DANDRUFF LOTION. SEMON, INC., New York, N. Y.
Filed May 31, 1930. Serial No. 302,048. PUBLISHED JULY 15, 1930. Class 6.

277,539. LINEN AND COTTON PIECE GOODS. MATTHEW W RYAN SONS & Co. INC., New York, N. Y.
Filed May 31, 1930. Serial No. 302,032. PUBLISHED AUGUST 12, 1930. Class 42.

277,540. CANNED EDIBLE SEAWEED, CANNED AND DRIED VEGETABLES, PICKLES, AND SAUCES USED IN COOKING AND FOR TABLE PURPOSES. MITSUW COMPANY, INC., San Francisco, Calif.
Filed May 31, 1930. Serial No. 301,988. PUBLISHED SEPTEMBER 2, 1930. Class 46.

277,541. SHEETS, PILLOWCASES, BLANKETS, AND BEDSPREADS OF COTTON AND WOOL AND MIXTURES THEREOF. KIRBY, BLOCK & FISCHER, INC., doing business as Cooperative Merchandising Bureau, New York, N. Y.
Filed May 31, 1930. Serial No. 301,946. PUBLISHED AUGUST 26, 1930. Class 42.

277,542. BRICKS. FISKE & COMPANY, INC., Boston, Mass.
Filed May 29, 1930. Serial No. 301,609. PUBLISHED SEPTEMBER 2, 1930. Class 12.

277,543. ELECTRICAL TRANSFORMERS. MOTORLESS DIRECT-CURRENT NEON SIGN Co., New York, N. Y.
Filed May 24, 1930. Serial No. 301,190. PUBLISHED SEPTEMBER 2, 1930. Class 21.

277,544. ROOFING COMPRISING A FABRIC OR FIBROUS BASE TREATED WITH WATERPROOFING MATERIAL. THE BARRETT COMPANY, New York, N. Y.
Filed May 22, 1930. Serial No. 301,007. PUBLISHED SEPTEMBER 2, 1930. Class 12.

277,545. CORN, BUNION, AND CALLUS PADS (MADE OF SEVERAL LAYERS OF ADHESIVE PLASTER, WHICH CONTAIN A MEDICATION). THE KENDALL COMPANY, Chicago, Ill.
Filed June 21, 1930. Serial No. 302,688. PUBLISHED AUGUST 5, 1930. Class 6.

277,546. WASHING CRYSTALS. HENRY DUBIN, doing business as SOF Products Co., not incorporated, Chicago, Ill.
Filed June 21, 1930. Serial No. 302,673. PUBLISHED AUGUST 26, 1930. Class 4.

277,547. CANDY, SALTED PEANUTS, AND PEANUT BUTTER. ALLEN & SMITH COMPANY, INC., Richmond, Va.
Filed June 21, 1930. Serial No. 302,664. PUBLISHED SEPTEMBER 2, 1930. Class 46.

277,548. HANDKERCHIEFS. WESTERN BOTTLE MFG. Co., Chicago, Ill.
Filed June 19, 1930. Serial No. 302,607. PUBLISHED AUGUST 19, 1930. Class 42.

277,549. COTTON AND WOOLEN PIECE GOODS. SAYLES FINISHING PLANTS, INC., Saylesville, R. I., and New York, N. Y.
Filed June 17, 1930. Serial No. 302,516. PUBLISHED AUGUST 19, 1930. Class 42.

277,550. SILK PIECE GOODS. JANSEN & PRETZFELD, INC., New York, N. Y.
Filed July 25, 1930. Serial No. 303,814. PUBLISHED SEPTEMBER 2, 1930. Class 42.

277,551. SILK PIECE GOODS. FOREMOST FABRICS CORPORATION, New York, N. Y.
Filed July 25, 1930. Serial No. 303,807. PUBLISHED SEPTEMBER 2, 1930. Class 42.

277,552. FABRICS OF SILK AND RAYON AND MIXTURES THEREOF. DUPLAN SILK CORPORATION, New York, N. Y.
Filed July 25, 1930. Serial No. 303,803. PUBLISHED SEPTEMBER 2, 1930. Class 42.

277,553. SILK CREPE IN THE PIECE, PLAIN AND FANCY TINSEL. COUDURIER, FRUCTUS & DESCHER, Lyon, France.
Filed July 25, 1930. Serial No. 303,801. PUBLISHED SEPTEMBER 2, 1930. Class 42.

277,554. SILK PIECE GOODS. EMPIRE SILK COMPANY, New York, N. Y.
Filed July 22, 1930. Serial No. 303,711. PUBLISHED SEPTEMBER 2, 1930. Class 42.

277,555. VACUUM JARS FOR THE STORAGE OF FOOD PRODUCTS. ESKIMO PIE CORPORATION, Louisville, Ky.
Filed July 18, 1930. Serial No. 303,599. Class 2.

277,556. FAST-COLOR WASHABLE RAYON BEDSPREADS. SEARS, ROEBUCK AND Co., Chicago, Ill.
Filed July 14, 1930. Serial No. 303,494. PUBLISHED AUGUST 26, 1930. Class 42.

277,557. FISHING AND CASTING REELS. SOUTH BEND BAIT COMPANY, South Bend, Ind.
Filed July 11, 1930. Serial No. 303,390. PUBLISHED AUGUST 26, 1930. Class 22.

277,558. ARTIFICIAL BAIT. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio.
Filed July 11, 1930. Serial No. 303,370. PUBLISHED AUGUST 26, 1930. Class 22.

277,559. EMBROIDERED PIECE GOODS MADE OUT OF WOOL, SILK, AND COTTON OR THE COMBINATIONS THEREOF. ARTHUR JAMES NORRIS, Greenwich, Conn.
Filed July 9, 1930. Serial No. 303,295. PUBLISHED AUGUST 26, 1930. Class 42.

277,560. COTTON PIECE GOODS. WILLIAM WHITMAN COMPANY, INC., Boston, Mass.
Filed July 2, 1930. Serial No. 303,076. PUBLISHED AUGUST 12, 1930. Class 42.

277,561. COMINO POWDER, GARLIC POWDER, ONION POWDER, RED PEPPER, PAPRIKA, AND CHILE POWDER. WALKER PROPERTIES ASSOCIATION, Austin, Tex.
Filed June 30, 1930. Serial No. 303,017. PUBLISHED SEPTEMBER 2, 1930. Class 46.

277,562. SILK PIECE GOODS. MAJESTIC SILK MILLS, INC., New York, N. Y.
Filed June 28, 1930. Serial No. 302,956. PUBLISHED AUGUST 12, 1930. Class 42.

277,563. WOOL, COTTON, RAYON, AND SILK KNITTED FABRIC. CONTINENTAL MILLS, INC., New York, N. Y.
Filed June 28, 1930. Serial No. 302,933. PUBLISHED SEPTEMBER 2, 1930. Class 42.

277,564. SYNTHETIC YARN. THE VISCOSE COMPANY, Marcus Hook, Pa.
Filed June 27, 1930. Serial No. 302,922. PUBLISHED AUGUST 19, 1930. Class 43.

277,565. SPECIALLY-PREPARED DRIED MILK. MEAD JOHNSON & COMPANY, Evansville, Ind.
Filed June 27, 1930. Serial No. 302,905. PUBLISHED SEPTEMBER 2, 1930. Class 46.

277,566. GAMES PLAYED WITH GAME BOARD, DICE, AND COUNTERS. MILTON BRADLEY COMPANY, Springfield, Mass.
Filed June 27, 1930. Serial No. 302,889. PUBLISHED SEPTEMBER 2, 1930. Class 22.

277,567. KNOTTED, WOVEN, AND LOOPED FABRICS—NAMELY, RUGS AND CARPETS. TEXTILE REFINISHING LABORATORIES, INC., New York and Long Island City, N. Y.
Filed June 25, 1930. Serial No. 302,839. PUBLISHED AUGUST 26, 1930. Class 42.

277,568. KNOTTED, WOVEN, AND LOOPED FABRICS—NAMELY, RUGS AND CARPETS. TEXTILE REFINISHING LABORATORIES, INC., New York and Long Island City, N. Y.
Filed June 25, 1930. Serial No. 302,838. PUBLISHED AUGUST 26, 1930. Class 42.

277,569. MOLASSES. THE AMERICAN MOLASSES CO. OF NEW YORK, Brooklyn and New York, N. Y.
Filed June 25, 1930. Serial No. 302,802. PUBLISHED SEPTEMBER 2, 1930. Class 46.

277,570. TABLE GLASSWARE. SLOAN BROTHERS, Lonaconing, Md.
Filed June 21, 1930. Serial No. 302,698. PUBLISHED SEPTEMBER 2, 1930. Class 33.

277,571. BULK CHEESE, LUNCH CHEESE, AND PACKAGE CHEESE. FRED J. KOLB, doing business as F. J. Kolb Cheese Company, Lena, Ill.
Filed November 21, 1929. Serial No. 292,672. PUBLISHED JANUARY 7, 1930. Class 46.

277,572. BAKED GOODS, ESPECIALLY COOKIES. CARL L. BEST, Cleveland, Ohio.
Filed October 9, 1929. Serial No. 290,811. PUBLISHED MAY 20, 1930. Class 46.

277,573. PAINTS, STAINS, AND VARNISHES. GEO. SPROULL COMPANY, INC., Shreveport, La.
Filed September 16, 1929. Serial No. 289,848. PUBLISHED FEBRUARY 11, 1930. Class 16.

277,574. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND EXTRACTS AND SYRUPS AND CONCENTRATES FOR MAKING THE SAME. ROBERT R. SCALES, doing business as Scales-Wilson Company, Greenville, S. C.
Filed September 12, 1929. Serial No. 289,693. PUBLISHED OCTOBER 29, 1929. Class 45.

277,575. STORAGE BATTERIES. VESTA BATTERY CORPORATION, Chicago, Ill.
Filed August 26, 1929. Serial No. 289,051. PUBLISHED OCTOBER 15, 1929. Class 21.

277,576. MEDICINE FOR THE TREATMENT OF HEADACHES, COLDS, NEURALGIA, TOOTHACHE, AND EARACHE. JOHANNA IBSEN, doing business as Handypack Drug Co., San Diego, Calif.
Filed July 20, 1929. Serial No. 287,412. PUBLISHED FEBRUARY 4, 1930. Class 6.

277,577. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & Co. INC., New York, N. Y.
Filed July 18, 1929. Serial No. 287,278. PUBLISHED AUGUST 12, 1930. Class 42.

277,578. LUBRICATING OILS AND GREASES, MOTOR-FUEL OILS, AND KEROSENE. THE EAGLE LIQUID GAS & OIL COMPANY, INC., Cincinnati, Ohio.
Filed July 15, 1929. Serial No. 287,124. PUBLISHED DECEMBER 3, 1929. Class 15.

277,579. FISHING LINES, FISHING POLES, BOBBERS, SINKERS, AND SPINNERS. CHARLES B. HERTZEL, Sacramento, Calif.
Filed July 5, 1929. Serial No. 286,634. PUBLISHED AUGUST 26, 1930. Class 22.

277,580. FISHING LINES AND CERTAIN NAMED EXERCISING APPARATUS. MOOSEHEAD-WHITELY EXERCISER COMPANY, New York, N. Y.
Filed June 7, 1929. Serial No. 285,219. PUBLISHED AUGUST 12, 1930. Class 22.

277,581. ALUMINUM PAINT. THE ASPHALT PRODUCTS Co., INC., Syracuse, N. Y.
Filed June 4, 1929. Serial No. 285,006. PUBLISHED MAY 6, 1930. Class 16.

277,582. CANNED VEGETABLES. HARRY H. BRAKELEY, Jr., doing business as The Brakeley Canning Company, Bordentown, N. J.
Filed February 21, 1929. Serial No. 279,722. PUBLISHED APRIL 23, 1929. Class 46.

277,583. MACHINES FOR APPLYING LABELS TO THE BODY OF BOTTLES AND THE LIKE. NATIONAL LABELING MACHINE Co., INC., Long Island City, N. Y.
Filed December 18, 1928. Serial No. 276,895. PUBLISHED AUGUST 6, 1929. Class 23.

277,584. AUTOMOBILES COMMONLY EMPLOYED AS TAXICABS AND CONSTRUCTIVE PARTS THEREOF. CHECKER CAB MANUFACTURING CORPORATION, Kalamazoo, Mich.
Filed November 14, 1928. Serial No. 275,256. PUBLISHED OCTOBER 8, 1929. Class 19.

277,585. SCREW DRIVERS. THE STANLEY WORKS, New Britain, Conn.
Filed November 2, 1928. Serial No. 274,742. PUBLISHED MARCH 19, 1929. Class 23.

277,586. JELLY POWDER. PEERLESS SAL-O-WELL Co., INC., Buffalo, N. Y.
Filed March 10, 1928. Serial No. 262,926. PUBLISHED JUNE 12, 1928. Class 46.

277,587. READY-MIXED PAINTS—NAMELY, STAINS AND ENAMELS. JAMES A. MCCAFFERTY & SONS MANUFACTURING COMPANY, INC., also doing business as Roebling Color Works, Brooklyn, N. Y.
Filed March 1, 1928. Serial No. 262,475. PUBLISHED AUGUST 14, 1928. Class 16.

277,588. FISHING RODS. GEPHART MANUFACTURING Co., Chicago, Ill.
Filed May 20, 1930. Serial No. 300,869. PUBLISHED AUGUST 12, 1930. Class 22.

277,589. FRATERNITY PINS, RINGS, BRACELETS, BROOCHES, BAR PINS, BELT BUCKLES, WATCH CHARMS, PENDANTS, AND CUFF LINKS, ALL MADE OF OR PLATED WITH PRECIOUS METAL. KAPPA PSI, Memphis, Tenn.
Filed May 19, 1930. Serial No. 300,796. PUBLISHED JULY 29, 1930. Class 28.

277,590. MAPLE SYRUP. DANIEL WHITE CHAMBERS, Matewan, W. Va.
Filed May 17, 1930. Serial No. 300,709. PUBLISHED SEPTEMBER 2, 1930. Class 46.

277,591. SILK VELVETS IN THE PIECE AND VELVETS IN THE PIECE MADE OF SILK AND RAYON. J. B. MARTIN COMPANY, Norwich, Conn.
Filed May 14, 1930. Serial No. 300,531. PUBLISHED AUGUST 26, 1930. Class 42.

277,592. ARTICLES OF PORCELAIN, CROCKERY AND EARTHENWARE. SOCIÉTÉ ANONYME HAVILAND & Co., Paris, France.
Filed May 3, 1930. Serial No. 299,934. PUBLISHED AUGUST 12, 1930. Class 30.

277,593. AGATES AND MARBLES. M. GROPPER & SONS, INC., New York, N. Y.
Filed April 30, 1930. Serial No. 299,707. PUBLISHED AUGUST 26, 1930. Class 22.

277,594. VANITIES, COMPACT BOXES, PERFUME CONTAINERS, ETC. ELGIN AMERICAN MANUFACTURING CO., Elgin, Ill.
Filed April 28, 1930. Serial No. 299,565. PUBLISHED AUGUST 19, 1930. Class 28.

277,595. BAKERY PRODUCT COMMONLY DESIGNATED AS ICE-CREAM CONES. CONE CONFECTION CO., Chicago, Ill.
Filed April 26, 1930. Serial No. 299,497. PUBLISHED SEPTEMBER 2, 1930. Class 46.

277,596. WORSTED AND WOOLEN FABRICS. HOLDEN-LEONARD COMPANY, New York, N. Y.
Filed April 19, 1930. Serial No. 299,123. PUBLISHED AUGUST 19, 1930. Class 42.

277,597. EGGS AND EGG PRODUCTS—NAMELY, FROZEN WHOLE EGGS, FROZEN EGG-YOLKS, FROZEN EGG WHITES, DRIED WHOLE EGGS, DRIED EGG YOLKS, DRIED EGG WHITES, AND COMBINATIONS AND COMPOUNDS THEREOF. THE AMOS BIRD CO., Boston, Mass.
Filed April 15, 1930. Serial No. 298,879. PUBLISHED SEPTEMBER 2, 1930. Class 46.

277,598. PLAYING-CARD GAME. S. D. BELL, Salt Lake City, Utah.
Filed March 29, 1930. Serial No. 298,074. PUBLISHED AUGUST 26, 1930. Class 22.

277,599. MACARONI, SPAGHETTI, AND NOODLES. NATIONAL MACARONI MANUFACTURERS ASSOCIATION, Braidwood, Ill.
Filed March 28, 1930. Serial No. 298,036. PUBLISHED MAY 13, 1930. Class 46.

277,600. PUNCH CARD. RALPH SADLIER COONEY, doing business as School Service Co., New York, N. Y.
Filed March 20, 1930. Serial No. 297,587. PUBLISHED SEPTEMBER 2, 1930. Class 22.

277,601. PIECE GOODS MADE OF ARTIFICIAL VEGETABLE MATERIAL OR COMBINATIONS OF THE SAME OF SILK AND COTTON. MICHEL DASSONVILLE, Paris, France.
Filed February 28, 1930. Serial No. 296,637. PUBLISHED SEPTEMBER 2, 1930. Class 42.

277,602. INSECTICIDE FOR FLIES, GNATS, MOSQUITOES, ROACHES, MOTHS, BEDBUGS, ETC. M. & B. PRODUCTS CO., Philadelphia, Pa.
Filed February 21, 1930. Serial No. 296,354. PUBLISHED APRIL 1, 1930. Class 6.

277,603. TENNIS BALLS AND RUBBER BALLS FOR GAMES. JAMES WALLACE PATON, Liverpool, England.
Filed February 20, 1930. Serial No. 296,287. PUBLISHED SEPTEMBER 2, 1930. Class 22.

277,604. PREPARED COCONUT. FRANKLIN BAKER COMPANY, New York, N. Y.
Filed February 14, 1930. Serial No. 295,991. PUBLISHED APRIL 1, 1930. Class 46.

277,605. CERTAIN NAMED CHINAWARE. HALL CHINA CO., East Liverpool, Ohio.
Filed February 10, 1930. Serial No. 295,844. PUBLISHED APRIL 22, 1930. Class 30.

277,606. WHITE LIME AND HYDRATED LIME. MARBLEHEAD LIME CO., Chicago, Ill.
Filed February 1, 1930. Serial No. 295,490. PUBLISHED MAY 13, 1930. Class 12.

277,607. CHOCOLATED MALTED FOOD DRINK. KREM-KO COMPANY, Chicago, Ill.
Filed December 26, 1929. Serial No. 294,074. PUBLISHED SEPTEMBER 2, 1930. Class 46.

277,608. PIECE GOODS OF SILK AND COTTON. ARTHUR BEIR & CO., INC., New York, N. Y.
Filed November 29, 1929. Serial No. 293,024. PUBLISHED JANUARY 14, 1930. Class 42.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

277,609. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE PHILADELPHIA AND READING COAL AND IRON COMPANY, Philadelphia, Pa. Filed Sept. 18, 1930. Serial No. 305,824.

SILVER CREEK

For Coal.
Claims use since July, 1893.

277,610. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE AKRON BRASS MFG. CO., Wooster, Ohio. Filed Sept. 15, 1930. Serial No. 305,687.

AKRON

For Fire-Hose Nozzles and Hose-Line Couplings of Bronze and Brass Castings and Forgings.
Claims use since January, 1926.

277,611. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALTER D. LAMAR, doing business as Lamar Orchards, Macon, Ga. Filed Sept. 5, 1930. Serial No. 305,360.

FUZ-LESS

For Fresh Peaches.
Claims use since July 1, 1927.

277,612. (CLASS 12. CONSTRUCTION MATERIALS.) THE SULLIVAN CO., Memphis, Tenn. Filed Aug. 30, 1930. Serial No. 305,199.

FISSURSEAL

For a Precipitating and Waterproofing Compound for Use in Holding and Walling Up Shale, Sand, Etc., for Filling Caves, Fissures, Crevices, Laminations, Etc., for Cementing and Reconditioning Wells, and for Filling Fissures in Mines or in Construction Work Where Fiberized Method is Needed in the Concrete, Mud, or Cement Alone or with a Precipitation of Chemicals in the Mix.
Claims use since June, 1929.

277,613. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) W. R. NIGHTINGALE, Ralston, Nebr. Filed Aug. 20, 1930. Serial No. 304,825.

SLICK QUICK

For Automobile Brushes.
Claims use since June 1, 1929.

277,614. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ARTHUR A. CRAFTS & Co., Boston, Mass. Filed Aug. 9, 1930. Serial No. 304,401.

Castile

For Milling Cutters, End Mills, Reamers, Expansion Reamers, Drills, Core Drills, Saws, Dies, Wiredrawing Dies, Turning Tools, Glass Cutters, Engraving Tools, Counterbores, Ruling Diamonds, Emery-Wheel Dressers, Diamond-Pointed Tools.
Claims use since Sept. 1, 1927.

277,615. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GLENN W. TRITLE, doing business as Tritle Laboratories, Seattle, Wash. Filed July 30, 1930. Serial No. 304,023.

TRITLE'S GLYCERINE AND ROSE WATER

For Skin Creams.
Claims use since September, 1927.

277,616. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE PHILADELPHIA AND READING COAL AND IRON COMPANY, Philadelphia, Pa. Filed July 17, 1930. Serial No. 303,577.

BURNSIDE

For Coal.
Claims use since May 14, 1881.

277,617. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) NATHAN STRAUS & SONS, INC., New York, N. Y. Filed July 15, 1930. Serial No. 303,517.

WALTER J. BUZZINI INC.

For Kitchen Equipment—Namely, Coffee and Hot-Water Urns, Urn Stands, Steam Tables, Dish Warmers, and Bains Marie.
Claims use since October, 1907.

277,618. (CLASS 37. PAPER AND STATIONERY.) OXFORD FILING SUPPLY CO., Brooklyn, N. Y. Filed June 19, 1930. Serial No. 302,592.

Rol-labels

For Gummed Labels.
Claims use since Aug. 2, 1928.

277,619. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDW. A. APFFEL CO., Los Angeles, Calif. Filed May 26, 1930. Serial No. 301,232.

APFFEL

For Coffee, Tea, Spices, Food-Flavoring Extracts, Chocolate, Cocoa.
Claims use since Mar. 1, 1919.

277,620. (CLASS 37. PAPER AND STATIONERY.) THE WINTERBOTTOM BOOK CLOTH COMPANY LIMITED, Manchester, England. Filed May 13, 1930. Serial No. 300,454.

"DOWSE" BRAND
TRADE MARK.

For Tracing Cloth.
Claims use since May 20, 1927.

277,621. (CLASS 37. PAPER AND STATIONERY.) THE WINTERBOTTOM BOOK CLOTH COMPANY LIMITED, Manchester, England. Filed May 13, 1930. Serial No. 300,453.

"SAGARS" BRAND
TRADE MARK.

For Tracing Cloth.
Claims use since May 20, 1927.

277,622. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE W. H. COMPTON SHEAR CO., Newark, N. J. Filed Mar. 21, 1930. Serial No. 297,662.

COMPTON Perfection NEWARK, N.J.

For Shears.
Claims use since 1927.

277,623. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MORTON MANUFACTURING CORPORATION, doing business as Blair Laboratories, Lynchburg, Va. Filed Dec. 19, 1929. Serial No. 293,886.

DR. BLAIR'S

For Cosmetics—Namely, Face Powder, Bleaching Cream, Cleansing Cream, Acne Cream, Mentholated Cream, Vanishing Cream, Freckle Cream, Cream Dressing for the Skin to Be Used in Place of Face Powder, Cucumber Cream, Witch-Hazel Cream, Massage Cream, Cold Cream; Baby Powder, Beauty Clay, Depilatory, Lilac-Vegetal Lotion, Honey-Almond-Cucumber Lotion, Freckle-Tan Lotion, Astringent Lotion, Bay Rum, Cocoanut-Oil Shampoo; Lotion for Chapped, Rough Skin, Cracked and Chapped Lips, Sunburn, and for Use After Shaving; a Preparation for Beautifying the Hair, Hairdressing, Hair Color Restorer, Preparation for Falling Hair and Dandruff, and Preparation for Beautifying the Lips and Cheeks; Medicinal Preparations—Namely, a Preparation of Herbs, Roots, Barks, Berries, and Leaves Used as a Tonic and Alterative and System Purifier, Tonic Laxative, Sedative Cough Expectorant, Aspirin Tablets, Cold Tablets, Indigestion Tablets, Liver Tablets, Diuretic Pills, a Nux and Iron Compound Used as a General Tonic, Salve for Treating Colds, Healing Salve for Cuts, Wounds, Sores, Burns, Abrasions, Bites, Chafes, Ulcers, Eczema, Piles, Stings of Insects, Chapped, Cracked, or Rough Skins; a Preparation for Treating Corns, Laxative Wafers, Laxative Gum Mouth Wash, Astringent Gum Lotion, Internal Lubricating Oil, Boric Acid, Epsom Salt, Antiseptic Healing Liniment, Witch-Hazel and Bicarbonate of soda.
Claims use since Mar. 26, 1909.

277,624. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MORTON MANUFACTURING CORPORATION, doing business as Blair Laboratories, Lynchburg, Va. Filed Dec. 19, 1929. Serial No. 293,885.

DR. BLAIR'S

For Food Products—Namely, Flavoring Cream for Ice Cream, Jellies, Cakes, Pies, and All Kinds of Pastry; and Flavoring Extracts for Foods.
Claims use since Mar. 26, 1909.

277,625. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) AUTOMATIC GOLD CHAIN CO., Providence, R. I. Filed Dec. 6, 1929. Serial No. 293,310.

BOURBON

For Jewelry for Personal Wear or Adornment, Not Including Watches.
Claims use since Sept. 10, 1929.

277,626. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) FEEDERS SUPPLY AND MANUFACTURING CO., Kansas City, Mo. Filed Nov. 29, 1929. Serial No. 293,035.

SUGAR-FAT

For Stock and Poultry Feed.
Claims use since Sept. 20, 1929.

277,627. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BEAR-STEWART CO., Chicago, Ill. Filed Nov. 23, 1929. Serial No. 292,788.

KRISPY KRUST

For Doughnut Mixture.
Claims use since Jan. 5, 1922.

277,628. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KLEANHEAT COAL PROCESSING CORPORATION, Grand Rapids, Mich. Filed Nov. 6, 1929. Serial No. 292,073.

KLEANHEAT

For Chemical for Promoting Combustion.
Claims use since Aug. 1, 1929.

277,629. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WENATCHEE DISTRICT CO-OPERATIVE ASSOCIATION, Wenatchee, Wash. Filed Nov. 4, 1929. Serial No. 292,021.

PREPAK-KOOLED

For Fresh Apples.
Claims use since Oct. 1, 1929.

277,630. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DR. E. S. ERICKSON, Spring Grove, Minn. Filed Oct. 21, 1929. Serial No. 291,328.

Erickson's Eczema Salve

For Medicinal Ointment Used in the Treatment of Eczema.
Claims use since Sept. 26, 1929.

277,631. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SEACOAST CANNING COMPANY, Eastport, Me. Filed Oct. 19, 1929. Serial No. 291,294.

SILVERSIDES

For Canned Sardines.
Claims use since Nov. 26, 1928.

277,632. (CLASS 37. PAPER AND STATIONERY.) RICHARD E. THIBAUT, INCORPORATED, New York, N. Y. Filed Oct. 18, 1929. Serial No. 291,248.

DURET

For Wall Papers.
Claims use since Sept. 28, 1929.

277,633. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PEOPLES DRUG STORES, INC., also doing business as Myra Monet Candy Company, Washington, D. C. Filed Oct. 11, 1929. Serial No. 290,969.

Myra Monet

For Candy.
Claims use since Sept. 24, 1929.

277,634. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) QUERFURTER ZUCKERRÜBENSAMENZUCHT BERGMANN & CO., G. M. B. H., Querfurt, Germany. Filed Sept. 30, 1929. Serial No. 290,427.

ORIGINAL BERGMANN'SCHER ZUCKERRÜBENSAMEN

For Sugar-Beet Seed.
Claims use since Oct. 1, 1928.

277,635. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GEO. C. WHITE, doing business as White Rapid Disher Co., Newark, N. J. Filed Sept. 26, 1929. Serial No. 290,282.

WHITE RAPID

For Ice-Cream Scoops.
Claims use since Sept. 17, 1929.

277,636. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VICTORIA ELEVATOR CO., Minneapolis, Minn. Filed Sept. 16, 1929. Serial No. 289,859.

CHOICE O'WHEAT

For Wheat Flour.
Claims use since Sept. 6, 1929.

277,637. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MEYENBERG LABORATORIES, INC., Salinas, Calif. Filed Sept. 11, 1929. Serial No. 289,640.

ALL-PURE

For Evaporated Milk, Concentrated Skim Milk, Sweetened Condensed Milk, Whole-Milk Powder, Powdered Skim Milk, Ice-Cream Mix.
Claims use since Aug. 19, 1929.

277,638. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Sept. 5, 1929. Serial No. 289,350.

PUNCTURE SEAL

For Inner Tubes Constructed Wholly or in Part of Rubber for Use in Pneumatic-Tire Casings for Motor Trucks, Motor Cars, Motor Cycles, Bicycles, Aeroplanes, and Other Vehicles.
Claims use since Aug. 17, 1929.

277,639. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SIMPLICITY PATTERN COMPANY, INC., New York, N. Y. Filed Sept. 4, 1929. Serial No. 289,327.

SIMPLICITY

For Dress Patterns.
Claims use since Aug. 1, 1927.

277,640. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH GOLDENSTEIN, doing business as Gold Laboratories, Detroit, Mich. Filed Sept. 3, 1929. Serial No. 289,272.

HINDU AROMA

For Incense.
Claims use since Mar. 1, 1929.

277,641. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE J. G. PEPPARD SEED COMPANY, Kansas City, Mo. Filed Aug. 15, 1929. Serial No. 288,567.

TUFF SOD

For Mixed Lawn Seed, Pasture-Grass Mixtures, and General Line of Field and Grass Seeds.
Claims use since Aug. 1, 1929.

277,642. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CHRISTIAN A. LUND, doing business as C. A. Lund Company, Hastings, Minn. Filed Aug. 10, 1929. Serial No. 288,386.

LUND

For Skis, Ski Poles, Ski Harness, Ski-Driving Belts, Coaster Sleds, Hockey Sticks, Hockey Pucks, Archery Tackle, Snowshoes, Snowshoe Harness, Toboggans, Toe Caps for Use in Tobogganing, and Golf Clubs.
Claims use since Nov. 15, 1927.

277,643. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AMERICAN BURMA CO., Seattle, Wash. Filed July 1, 1929. Serial No. 286,404.

Burmese-Balm

For Preparation for Local Treatment for Disagreeable Consequences of Perspiration and Burning and Itching Feet.
Claims use since May 25, 1929.

277,644. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) SPEIDEL CHAIN CO., Providence, R. I. Filed June 24, 1929. Serial No. 286,08[illegible]

PERFECT

For Jewelry for Personal Wear or Adornment, Not Including Watches.
Claims use since June 12, 1929.

277,645. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WOODWORTH, INC., New York, N. Y. Filed June 22, 1929. Serial No. 286,003.

Tan Tone

For Astringents, Astringent Cerates, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Face Packs, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Dyes, Bath Salts, Foot Powders, and Deodorants.
Claims use since June 10, 1929.

277,646. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. W. C. HAYES, doing business as McCamey Bakery, McCamey, Tex. Filed May 25, 1929. Serial No. 284,612.

TAYST-RITE BREAD

For Bread.
Claims use since May 7, 1929.

277,647. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE HARSHAW CHEMICAL COMPANY, Cleveland, Ohio. Filed Apr. 18, 1929. Serial No. 282,603.

KROME-FLAKE

For Oxygen Compounds of Chromium—Namely, Chromium Trioxide.
Claims use since Mar. 20, 1929.

277,648. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ARTLOOM CORPORATION, Philadelphia, Pa. Filed Sept. 24, 1928. Serial No. 272,849.

BERWICK

For Textile Rugs.
Claims use since Dec. 1, 1927.

277,649. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) DORUS VAN ITALLIE, doing business as The Van Italiie Company, New York, N. Y. Filed Oct. 23, 1929. Serial No. 291,487.

FINEHARDS

For Noncut Industrial Diamonds.
Claims use since Oct. 1, 1929.

277,650. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GERBER & COMPANY, INC., New York, N. Y. Filed June 15, 1929. Serial No. 285,628.

Gerber's Cheese

For Cheese.
Claims use since June, 1929.

TRADE-MARK REGISTRATIONS RENEWED

34,605. CERTAIN NAMED CUTLERY AND EDGE TOOLS. Registered May 1, 1900. HEINRICH BÖKER & Co., Solingen, Germany. Renewed May 1, 1930.

35,149. LUBRICATING OILS. Registered September 25, 1900. WILBUR DIXON ELLIS. Renewed September 25, 1930, to Valvoline Oil Company, New York, N. Y., a Corporation of New Jersey, assignee by mesne assignments.

35,167. RUBBER BOOTS AND SHOES. Registered October 2, 1900. APSLEY RUBBER COMPANY. Renewed October 2, 1930, to Firestone Footwear Company, Hudson, Mass., a Corporation of Massachusetts, assignee by mesne assignments.

35,185. SYRUP. Registered October 2, 1900. ABRAM LYLE & SONS, LIMITED. Renewed October 2, 1930, to Tate & Lyle, Limited, London, England, a Corporation of Great Britain, assignee by mesne assignments.

35,200. MEDICATED BATHING LIQUIDS. Registered October 2, 1900. GEORGE BÜCKLE, Brooklyn, N. Y. Renewed October 2, 1930, to Sylvan Electric Bath, Inc., Jamaica, N. Y., a Corporation of New York, assignee.

35,205. ROAD-BUILDING MACHINERY AND SUPPLIES. Registered October 2, 1900. ACME ROAD MACHINERY COMPANY, Frankfort, N. Y., a Corporation of New York. Renewed October 2, 1930.

35,219. WHEAT FLOUR. Registered October 9, 1900. DULUTH UNIVERSAL MILL COMPANY. Renewed October 9, 1930, to Duluth Universal Milling Co., Duluth, Minn., a Corporation of Minnesota, sucessor.

35,228. CERTAIN NAMED CLEANING MATERIALS. Registered October 9, 1900. LEVER BROTHERS LIMITED, Port Sunlight, England. Renewed October 9, 1930, to Lever Brothers Company, Cambridge, Mass., a Corporation of Maine, assignee.

35,232. COMPOUND FOR CURRYING LEATHER. Registered October 9, 1900. VACUUM OIL COMPANY, Rochester, N. Y. Renewed October 9, 1930, to Vacuum Oil Company, New York, N. Y., a Corporation of New York.

35,296. COTTONSEED OILS. Registered October 23, 1900. THE AMERICAN COTTON OIL COMPANY, New York, N. Y. Renewed October 23, 1930, to Lever Brothers Company, Cambridge, Mass., a Corporation of Maine, assignee.

35,303. PRESCRIPTION BOTTLES. Registered October 23, 1900. OBEAR-NESTER GLASS COMPANY, St. Louis, Mo., and East St. Louis, Ill. Renewed October 23, 1930, to Obear Nester Glass Company, East St. Louis, Ill., a Corporation of Missouri.

35,400. A MEDICATED BATHING FLUID. Registered November 13, 1900. GEORGE BUCKLE, Brooklyn, N. Y. Renewed November 13, 1930, to Sylvan Electric Bath, Inc., Jamaica, N. Y., a Corporation of New York, assignee.

35,406. A CERTAIN NAMED MEDICINE. Registered November 13, 1900. EARL S. SLOAN, Boston, Mass. Renewed November 13, 1930, to Dr. Earl S. Sloan, Incorporated, New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

35,412. MINERAL WATER AND NONALCOHOLIC BEVERAGES. Registered November 13, 1900. DUQUESNE DISTRIBUTING COMPANY, INCORPORATED, Harmarville, Pa. Renewed November 13, 1930, to The Red Raven Corporation, Red Raven, Pa., a Corporation of Pennsylvania, by change of name.

35,435. COTTONSEED OILS. Registered November 13, 1900. THE AMERICAN COTTON OIL COMPANY, New York, N. Y. Renewed November 13, 1930, to Lever Brothers Company, Cambridge, Mass., a Corporation of Maine, assignee.

35,436. COTTONSEED OILS. Registered November 13, 1900. THE AMERICAN COTTON OIL COMPANY, New York, N. Y. Renewed November 13, 1930, to Lever Brothers Company, Cambridge, Mass., a Corporation of Maine, assignee.

35,437. COTTONSEED OILS. Registered November 13, 1900. THE AMERICAN COTTON OIL COMPANY, New York, N. Y. Renewed November 13, 1930, to Lever Brothers Company, Cambridge, Mass., a Corporation of Maine, assignee.

35,439. COTTONSEED OILS. Registered November 13, 1900. THE AMERICAN COTTON OIL COMPANY, New York, N. Y. Renewed November 13, 1930, to Lever Brothers Company, Cambridge, Mass., a Corporation of Maine, assignee.

35,472. WHEAT FLOUR. Registered November 20, 1900. DULUTH UNIVERSAL MILL COMPANY. Renewed November 20, 1930, to Duluth Universal Milling Co., Duluth, Minn., a Corporation of Minnesota, successor.

35,482. DAMPERS FOR HOT-AIR PIPES AND SMOKE PIPES. Registered November 20, 1900. THE S. M. HOWES COMPANY, Boston, Mass., a Corporation of Massachusetts. Renewed November 20, 1930.

35,513. MATHEMATICAL AND DRAWING INSTRUMENTS. Registered December 4, 1900. KEUFFEL & ESSER COMPANY, New York, N. Y. Renewed December 4, 1930, to Keuffel & Esser Company, Hoboken, N. J., a Corporation of New Jersey.

35,530. DRIED OR EVAPORATED FRUIT. Registered December 4, 1900. U. H. DUDLEY & Co., New York, N. Y. Renewed December 4, 1930, to California Packing Corporation, San Francisco, Calif., a Corporation of New York, assignee by mesne assignments.

35,569. MANUFACTURED CEREAL PRODUCTS. Registered December 11, 1900. ROBINSON-DANFORTH MILLING COMPANY. Renewed December 11, 1930, to Ralston Purina Company, St. Louis, Mo., a Corporation of Missouri, by change of name.

35,602. CERTAIN NAMED PACKING HOUSE PRODUCTS. Registered December 18, 1900. LIBBY, MCNEILL & LIBBY. Renewed December 18, 1930, to Libby, McNeill & Libby, Chicago, Ill., a Corporation of Maine, assignee.

35,639. CERTAIN NAMED CHEMICAL, PHARMACEUTICAL, AND SURGICAL PRODUCTS AND PREPARATIONS. Registered December 25, 1900. JOHANNES ARTHUR SANDER, Hamburg, Germany. Renewed December 25, 1930, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

35,667. A CHEMICAL COMPOUND FOR PURIFYING ACETYLENE. Registered December 25, 1900. DEUTSCHE GOLD & SILBER SCHEIDE-ANSTALT, VORMALS RÖSSLER, Frankfort-on-the-Main, Germany. Renewed December 25, 1930, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee, by mesne assignments.

35,672. BOLT CLIPPERS. Registered December 25, 1900. HENRY K. PORTER, Chelsea, Mass. Renewed December 25, 1930, to H. K. Porter, Inc., Everett, Mass., a Corporation of Massachusetts, assignee.

35,675. CERTAIN NAMED HARDWARE. Registered December 25, 1900. ONEIDA COMMUNITY, LIMITED, Kenwood and Niagara Falls, N. Y. Renewed December 25, 1930, to Oneida Community, Limited, Oneida, N. Y., a Corporation of New York.

35,700. FILES AND HAND TOOLS. Registered January 1, 1901. AMERICAN SWISS FILE & TOOL COMPANY, Elizabeth, N. J., a Corporation of New Jersey. Renewed January 1, 1931.

35,701. FILES AND HAND TOOLS. Registered January 1, 1901. AMERICAN SWISS FILE & TOOL COMPANY, Elizabeth, N. J., a Corporation of New Jersey. Renewed January 1, 1931.

35,808. COD-LIVER-OIL PREPARATIONS. Registered January 22, 1901. HENRY K. WAMPOLE & CO. Renewed January 22, 1931, to Henry K. Wampole and Company, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania, assignee.

35,840. EYE LOTION. Registered January 29, 1901. GEORGE WHEELER CARNRICK. Renewed January 29, 1931, to G. W. Carnrick Co., Newark, N. J., a Corporation of New Jersey, assignee by mesne assignments.

35,849. FOUNTAIN PENS. Registered February 5, 1901. L. E. WATERMAN COMPANY, New York, N. Y., a Corporation of New York. Renewed February 5, 1931.

35,861. CERTAIN NAMED TOBACCO. Registered February 5, 1901. THE BLOCH BROTHERS TOBACCO COMPANY, Wheeling, W. Va., a Corporation of West Virginia. Renewed February 5, 1931.

35,908. BOOTS AND SHOES. Registered February 19, 1901. FRIEDMAN BROS. SHOE CO. Renewed February 19, 1931, to International Shoe Co., St. Louis, Mo., a Corporation of Delaware, assignee by mesne assignments.

35,942. FILES AND HAND TOOLS. Registered February 19, 1901. AMERICAN SWISS FILE & TOOL COMPANY, Elizabeth, N. J., a Corporation of New Jersey. Renewed February 19, 1931.

36,042. MEDICINE FOR THE CURE OF CONSUMPTION. Registered March 12, 1901. BENDINER & SCHLESINGER. Renewed March 12, 1931, to Bendiner & Schlesinger, Inc., New York, N. Y., a Corporation of New York, assignee.

36,119. PRESERVED OR CANNED GOODS. Registered March 26, 1901. FRED WOLFERMAN. Renewed March 26, 1931, to Fred Wolferman, Inc., Kansas City, Mo., a Corporation of Missouri, assignee.

77,737. A PLASTIC COMPOSITION FOR FILLING SEAMS IN WOODWORK, ETC. Registered May 3, 1910. H. B. FRED. KUHLS. Renewed May 3, 1930, to Hiema Kuhls, Executrix of the Estate of H. B. Fred Kuhls, (deceased), of Brooklyn, N. Y., assignee.

77,910. CLEANING SUBSTANCES AND COMPOUNDS FOR LAUNDRY PURPOSES. Registered May 17, 1910. ELECTRIC COMPOUND CO. Renewed May 17, 1930, to Frederick W. Pew, Los Angeles, Calif., successor.

78,753. CERTAIN HARDWARE AND METAL ARTICLES. Registered July 5, 1910. THE WIRE GOODS COMPANY. Renewed July 5, 1930, to The Washburn Company, Worcester, Mass., a Corporation of Massachusetts, by change of name.

79,161. CERTAIN CLOTHING. Registered August 9, 1910. SHULL-DAY CO. Renewed August 9, 1930, to Day's Tailor-D Wear, Inc., Tacoma, Wash., a Corporation of Washington, by change of name.

79,165. CORN AND BUNION PLASTERS. Registered August 9, 1910. RICHARD SAMUEL STARKS, Midway, Ky. Renewed August 9, 1930.

79,184. A MEDICINAL PREPARATION AND A CREAM. Registered August 16, 1910. JOHN A. BAKER. Renewed August 16, 1930, to Mary Lena Baker, Fort Worth, Tex., assignee.

79,263. TELEPHONES, POLICE BOXES, SWITCHBOARDS FOR POLICE SYSTEMS, JACK BOXES, AND TELEPHONE SWITCHBOARDS. Registered August 23, 1910. THE DEAN ELECTRIC COMPANY, Elyria, Ohio. Renewed August 23, 1930, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York, assignee by mesne assignments.

79,552. ORANGE BITTERS. Registered September 20, 1910. BOOTH'S DISTILLERY LIMITED. Renewed September 20, 1930, to Booth's Distilleries, Limited, London, England, a Corporation of Great Britain, by change of name.

79,555. HOSIERY. Registered September 20, 1910. BROWN DURRELL CO., Boston, Mass., a Corporation of Massachusetts. Renewed September 20, 1930.

79,794. BEER. Registered October 4, 1910. GABRIEL SEDLMAYR, BRAUEREI ZUM SPATEN. Renewed October 4, 1930, to Gabriel u. Jos. Sedlmayr Spaten-Franziskaner-Leistbrau A.-G. Munchen, Munich, Germany, a Corporation of Germany, assignee.

79,906. CANNED PINEAPPLE. Registered October 18, 1910. HAIKU FRUIT AND PACKING COMPANY, Limited, Haiku, Maui, Territory of Hawaii. Renewed October 18, 1930, to Haiku Pineapple Company, Ltd., Haiku, Maui, Territory of Hawaii, and San Francisco, Calif., a Corporation of Territory of Hawaii, by change of name.

79,909. CURRANTS. Registered October 18, 1910. THE HILLS BROTHERS COMPANY, New York, N. Y., a Corporation of New York. Renewed October 18, 1930.

79,921. WOOD POLISH. Registered October 18, 1910. BENJAMIN MILLER, Chicago, Ill. Renewed October 18, 1930.

80,022. SOAP. Registered November 1, 1910. BARCLAY & BARCLAY. Renewed November 1, 1930, to Barclay & Co., New York, N. Y., a Corporation of Delaware, assignee.

80,104. IRON ENAMEL. Registered November 8, 1910. BLACK SILK STOVE POLISH WORKS, Sterling Ill. Renewed November 8, 1930, to J. L. Prescott Company, Passaic, N. J., a Corporation of New Jersey, assignee.

80,108. CANNED FRUITS AND CANNED VEGETABLES. Registered November 8, 1910. THE CONTINENTAL FRUIT PACKING CO., LIMITED, London, England, a Corporation of Great Britain. Renewed November 8, 1930.

80,109. CANNED FRUITS AND CANNED VEGETABLES. Registered November 8, 1910. THE CONTINENTAL FRUIT PACKING CO., LIMITED, London, England, a Corporation of Great Britain. Renewed November 8, 1930.

80,117. CERTAIN MACHINERY AND PARTS THEREOF. Registered November 8, 1910. THE FISHER GOVERNOR COMPANY, Marshalltown, Iowa, a Corporation of Iowa. Renewed November 8, 1930.

80,280. PLASTER OF PARIS. Registered November 29, 1910. J. B. KING & CO., New York, N. Y. Renewed November 29, 1930, to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois, assignee.

80,313. CALCULATING MACHINES. Registered December 6, 1910. GRIMME, NATALIS & CO., Kommanditgesellschaft auf Aktien, Brunswick, Germany. Renewed December 6, 1930, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

80,338. CERTAIN CHEMICALS. Registered December 13, 1910. BADISCHE ANILIN & SODA FABRIK, Ludwigshafen-on-the-Rhine, Germany. Renewed December 13, 1930, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

80,385. LUBRICATING OILS. Registered December 13, 1910. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y., a Corporation of New York. Renewed December 13, 1930.

80,386. REFINED PETROLEUM FOR ILLUMINATING, HEATING, AND POWER PURPOSES. Registered December 13, 1910. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y., a Corporation of New York. Renewed December 13, 1930.

80,435. MEASURING AND SCIENTIFIC INSTRUMENTS AND MACHINES. Registered December 20, 1910. ADOLPH MOLT, Newark, N. J. Renewed December 20, 1930, to Adolph Molt, Miami, Fla.

80,443. BOTTLED BEER. Registered December 20, 1910. A. SCHREIBER BREWING COMPANY. Renewed December 20, 1930, to Schreiber Products Corporation, Buffalo, N. Y., a Corporation of New York, assignee by mesne assignments.

80,451. STOVES, RANGES, FURNACES, AND HEATERS. Registered December 20, 1910. THE WHITE-WARNER COMPANY, Taunton, Mass., a Corporation of Massachusetts. Renewed December 20, 1930.

80,462. LAUNDRY STARCH. Registered December 27, 1910. CORN PRODUCTS REFINING COMPANY, Jersey City, N. J., and New York, N. Y. Renewed December 27, 1930, to Corn Products Refining Company, New York, N. Y., a Corporation of New Jersey.

80,492. PREPARED WHEAT AND BARLEY BREAKFAST FOODS. Registered December 27, 1910. POSTUM CEREAL CO., LIMITED, Battle Creek, Mich. Renewed December 27, 1930, to Postum Company, Inc., New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

80,495. ARTISTS' COLORS AND ARTISTS' VARNISHES. Registered December 27, 1910. GEORGE ROWNEY & CO. Renewed December 27, 1930, to George Rowney & Co. Ltd., London, England, a Corporation of Great Britain, assignee.

80,503. CLOCKS AND WATCHES. Registered December 27, 1910. THE WESTERN CLOCK MFG. CO. Renewed December 27, 1930, to Western Clock Company, Peru, Ill., a Corporation of Illinois, assignee.

80,526. CHINAWARE. Registered January 3, 1911. GREENWOOD POTTERY CO., Trenton, N. J., a Corporation of New Jersey. Renewed January 3, 1931.

80,567. CERTAIN MACHINES, TOOLS, AND PARTS THEREOF. Registered January 10, 1911. AKTIEBOLAGET B. A. HJORTH & CO., Stockholm, Sweden, a Corporation of Sweden. Renewed January 10, 1931.

80,590. REMEDIES FOR THE TREATMENT OF DISEASES OF THE VAGINA, OVARIES, AND WOMB. Registered January 10, 1911. FREDERICK F. FROATZ, doing business as Dr. Flint Medicine Co., New York, N. Y. Renewed January 10, 1931.

80,594. CIGARS. Registered January 10, 1911. THE HEMMETER CIGAR CO., Bay City and Detroit, Mich., a Corporation of Michigan. Renewed January 10, 1931.

80,630. A COMPOUND OF CORN SYRUP AND REFINER'S SYRUP, AND IMITATION FRUIT JELLY. Registered January 10, 1911. CORN PRODUCTS REFINING COMPANY, Jersey City, N. J., and New York, N. Y. Renewed January 10, 1931, to Corn Products Refining Company, New York, N. Y., a Corporation of New Jersey.

80,651. HEADACHE REMEDIES. Registered January 17, 1911. GENERAL DRUG COMPANY, New York, N. Y., a Corporation of New York. Renewed January 17, 1931.

80,677. GINGHAMS. Registered January 17, 1911. PARKHILL MANUFACTURING COMPANY, Fitchburg, Mass. Renewed January 17, 1931, to Amoskeag Manufacturing Company, Trustee under a declaration of trust (Mass.) of Manchester, N. H., assignee.

80,703. A MEDICINAL PREPARATION MADE FROM HERBS AND IRON. Registered January 24, 1911. W. H. BULL MEDICINE COMPANY, St. Louis, Mo., a Corporation of Missouri. Renewed January 24, 1931.

80,717. POTASSIUM GUIACOL SULFONATE, A REMEDY FOR PHTHISIS. Registered January 24, 1911. THE HOFFMANN-LA ROCHE CHEMICAL WORKS, New York, N. Y. Renewed January 24, 1931, to Hoffmann-La Roche, Inc., Nutley, N. J., a Corporation of New Jersey, assignee.

80,718. A MEDICINAL TONIC. Registered January 24, 1911. THE HOFFMANN-LA ROCHE CHEMICAL WORKS, New York, N. Y. Renewed January 24, 1931, to Hoffmann-La Roche, Inc., Nutley, N. J., a Corporation of New Jersey, assignee.

80,719. A PRODUCT HAVING ANTISEPTICAL PROPERTIES. Registered January 24, 1911. THE HOFFMANN-LA ROCHE CHEMICAL WORKS, New York, N. Y. Renewed January 24, 1931, to Hoffmann-La Roche, Inc., Nutley, N. J., a Corporation of New Jersey, assignee.

80,806. STAMPED AND PRESSED SHEET-METAL CANS AND BASKETS. Registered January 31, 1911, to ROCHESTER CAN COMPANY, Rochester, N. Y., a Corporation of New York. Renewed January 31, 1931.

80,880. CERTAIN DETERGENTS. Registered February 7, 1911. UNITED DRUG COMPANY. Renewed February 7, 1931, to United Drug Company, Boston, Mass., a Corporation of Delaware, assignee by mesne assignments.

80,911. TOILET CREAMS, TOILET WATERS, AND HAIR TONICS. Registered February 14, 1911. GENERAL DRUG COMPANY. Renewed February 14, 1931, to Plexo Preparations, Inc., New York, N. Y., a Corporation of New York, assignee.

80,913. TEAS. Registered February 14, 1911. THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J. Renewed February 14, 1931, to The Great American Tea Company, New York, N. Y., a Corporation of New York, assignee.

80,917. MEN'S AND BOYS' CLOTHING. Registered February 14, 1911. HARRIS-LIPSITZ COMPANY, Dallas, Tex., and New York, N. Y. Renewed February 14, 1931, to Higginbotham-Bailey-Logan Company, Dallas, Tex., a Corporation of Texas, assignee.

80,922. CANNED FRUITS AND VEGETABLES. Registered February 14, 1911. J. H. HOFFICKER CANNING COMPANY, Smyrna, Del., a Corporation of Delaware. Renewed February 14, 1931.

80,954. CERTAIN ARTICLES OF STATIONERY. Registered February 14, 1911. GEORGE ROWNEY & CO. Renewed February 14, 1931, to George Rowney & Co. Ltd., London, England, a Corporation of Great Britain, assignee.

81,057. DRAFTMEN'S SUPPLIES. Registered February 28, 1911. EUGENE DIETZGEN COMPANY. Renewed February 28, 1931, to Eugene Dietzgen Co., Chicago, Ill., a Corporation of Delaware, successor.

81,081. WATCHCASES, WATCHES, AND WATCH MOVEMENTS. Registered February 28, 1911. THE KEYSTONE WATCH CASE COMPANY, Philadelphia, Pa. Renewed February 28, 1931, to Keystone Watch Case Corporation, Riverside, N. J., a Corporation of Pennsylvania, assignee.

81,138. BORING MILL, PLANER AND SHAPER, LATHE, AND TURNING TOOLS. Registered March 7, 1911. THE READY TOOL COMPANY, as assignee of Thomas Fish. Renewed March 7, 1931, to Ready Tool Company, Bridgeport, Conn., a Corporation of Connecticut, assignee.

81,146. CIGARS. Registered March 7, 1911. THE HEMMETER CIGAR CO., Bay City and Detroit, Mich., a Corporation of Michigan. Renewed March 7, 1931.

81,182. WRITING AND PRINTING PAPER AND ENVELOPS. Registered March 7, 1911. UNION CARD & PAPER CO., New York, N. Y., a Corporation of New York. Renewed March 7, 1931.

81,245. SPOOL COTTON. Registered March 21, 1911. BLODGETT & ORSWELL CO., Pawtucket, R. I. Renewed March 21, 1931, to W. Warren Thread Works, Westfield, Mass., a Corporation of Massachusetts, assignee.

81,265. LAXATIVE PILLS. Registered March 21, 1911. W. T. HANSON CO., Schenectady, N. Y., a Corporation of New York. Renewed March 21, 1931.

81,284. COTTON PIECE GOODS. Registered March 21, 1911. NATIONAL CLOAK & SUIT COMPANY. Renewed March 21, 1931, to National Bellas Hess Co., New York, N. Y., a Corporation of New York, by change of name.

81,302. GOLF BALLS. Registered March 21, 1911. ST. MUNGO MANUFACTURING COMPANY, Glasgow, Scotland. Renewed March 21, 1931, to St. Mungo Manufacturing Company of America, Newark, N. J., a Corporation of New Jersey, assignee.

81,303. GOLF BALLS. Registered March 21, 1911. ST. MUNGO MANUFACTURING COMPANY, Glasgow, Scotland. Renewed March 21, 1931, to St. Mungo Manufacturing Company of America, Newark, N. J., a Corporation of New Jersey, assignee.

81,349. BROOMS. Registered March 28, 1911. MERKLE-WILEY BROOM CO. Renewed March 28, 1931, to Merkle Broom Company, Paris, Ill., a Corporation of Illinois, successor.

LABELS

REGISTERED NOVEMBER 18, 1930

38,247.—*Title:* OYL-AGAR. For Medicinal Preparation Used as a Laxative. PHILLIP M. CAUL & COMPANY, Cleveland, Ohio. Published October 1, 1930.

38,248.—*Title:* IDA-BEST. For Fresh Apples. CHANEY & ROWELL, INC., Nampa, Idaho. Published September 11, 1930.

38,249.—*Title:* COLUMBIA BRAND AMMONIA. For Ammonia. COLUMBIA CHEMICAL COMPANY, New York, N. Y. Published October 9, 1930.

38,250.—*Title:* DUGAN'S SPONGE CAKE LAYERS. For Sponge Cake. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published September 12, 1930.

38,251.—*Title:* HOME MADE FRUIT CAKE. For Fruit Cake. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published October 13, 1930.

38,252.—*Title:* ANAGRAM DICE. For Game Apparatus Employing Lettered Blocks. THE EMBOSSING COMPANY, Albany, N. Y. Published March 10, 1930.

38,253.—*Title:* FORT PITT RADIO HOUR. For Lager Brew. FORT PITT BREWING COMPANY, Sharpsburg, Pa. Published August 14, 1930.

38,254.—*Title:* BOND BREAD SLICED. For Bread. GENERAL BAKING COMPANY, New York, N. Y. Published September 1, 1930.

38,255.—*Title:* BOND BREAD. For Bread. GENERAL BAKING COMPANY, New York, N. Y. Published July 1, 1929.

38,256.—*Title:* OUR GANG PLAYTHINGS. For Playthings. THE GRAY LITHOGRAPH COMPANY, New York, N. Y. Published November 20, 1928.

38,257.—*Title:* CHERRY HOME RED SOUR PITTED CHERRIES. For Canned Red Sour Pitted Cherries. THE HASEROT COMPANY, Cleveland, Ohio. Published June 1, 1930.

38,258.—*Title:* PUNCH-OLA. For a Preparation for Making a Fruit-Flavored Drink or Ice. B. HELLER & COMPANY, Chicago, Ill. Published October 18, 1930.

38,259.—*Title:* NU-JEMS. For Whole Brown Rice. JERSEY CEREAL COMPANY, Irwin, Pa. Published July 28, 1930.

38,260.—*Title:* WHEAT AND BRAN. For Toasted Whole Wheat and Bran Flakes. JERSEY CEREAL COMPANY, Irwin, Pa. Published October 8, 1930.

38,261.—*Title:* ROLLED WHOLE WHEAT. For Rolled Wheat. JERSEY CEREAL COMPANY, Irwin, Pa. Published September 17, 1930.

38,262.—*Title:* KRANK. For Skin Creams. A. J. KRANK Co., St. Paul, Minn. Published September 27, 1930.

38,263.—*Title:* LIFE GUARD. For Prophylactic Articles, Etc. LAWRENCE LEDERER, doing business as Nutex Sales Co., Philadelphia, Pa. Published October 10, 1930.

38,264.—*Title:* ROYAL DUTCH. For Malt Syrup. J. C. MILLETT & COMPANY, San Francisco, Calif. Published October 1, 1930.

38,265.—*Title:* NESTLE SUPERSET FINGER WAVING LOTION. For Finger-Waving Lotions. THE NESTLE-LE MUR COMPANY, New York, N. Y. Published October 3, 1930.

38,266.—*Title:* SEABIRD. For Canned Salmon. POINT ADAMS PACKING CO., Hammond, Oreg. Published August 1, 1930.

38,267.—*Title:* CHANGLO. For Hair Nets. RENILO COMPANY, New York, N. Y. Published October 5, 1920.

38,268.—*Title:* TOKEN. For Coffee. STANDARD BRANDS INCORPORATED, New York, N. Y. Published September 22, 1930.

38,269.—*Title:* ICE CREAM. For Ice Cream. SUTHERLAND PAPER COMPANY, Kalamazoo, Mich. Published October 7, 1930.

38,270.—*Title:* TANG TANG. For Candy. TANG TANG INDUSTRIES, INC., New York, N. Y. Published August 15, 1930.

PRINTS

REGISTERED NOVEMBER 18, 1930

12,808.—*Title:* ORTHOGON PAINT BOOK. For Ophthalmic Lenses. BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y. Published September 5, 1930.

12,809.—*Title:* THIS EMBLEM MEANS QUALITY PRODUCTS BAKED RIGHT HERE. For Bakery. CHICAGO MASTER BAKERS' ASSOCIATION, Chicago, Ill. Published June 25, 1930.

12,810.—*Title:* SO REFRESHING! For Coca-Cola. THE COCA-COLA COMPANY, Atlanta, Ga. Published February 24, 1930.

12,811.—*Title:* DUGAN'S PUMPKIN PIES AND DOUGHNUTS A REAL TREAT FOR HALLOWEEN. For Pumpkin Pies and Doughnuts. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published October 16, 1930.

12,812.—*Title:* "RIDE THE AIR" ON THE HIGHWAYS. For Fisk Tires. FISK TIRE CO. INC., Chicopee Falls, Mass. Published April 10, 1930.

12,813.—*Title:* AIR FLIGHT PRINCIPLE TIRES. For Fisk Tires. FISK TIRE CO. INC., Chicopee Falls, Mass. Published March 10, 1930.

12,814.—*Title:* LIKE RIDING ON AIR. For Fisk Tires. FISK TIRE CO. INC., Chicopee Falls, Mass. Published May 1, 1930.

12,815.—*Title:* BUY ALL THAT YOU NEED FOR WASHDAY NOW! For Laundry Product. GENERAL FOODS CORP., New York, N. Y. Published March 10, 1930.

12,816.—*Title:* KEEPS YOUR SKIN BEAUTIFUL. For Face Powder. MELLO-GLO CO., Boston, Mass. Published February 26, 1930.

12,817.—*Title:* STAYS ON LONGER. For Face Powder. MELLO-GLO CO., Boston, Mass. Published February 26, 1930.

12,818.—*Title:* PREVENTS LARGE PORES. For Face Powder. MELLO-GLO CO., Boston, Mass. Published February 26, 1930.

12,819.—*Title:* DRINK MOXIE. For Moxie a Beverage. THE MOXIE CO., Roxbury, Mass. Published May 3, 1930.

12,820.—*Title:* NOXZEMA FOR SUNBURN. For Noxzema. NOXZEMA CHEMICAL CO., Baltimore, Md. Published April 21, 1930.

12,821.—*Title:* POST-A-GRAPH. For Printed Blanks. THE POSTAGRAPH CO., Baltimore, Md. Published October 24, 1930.

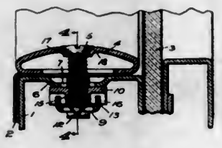
12,822.—*Title:* LOSSES ARE NEVER TAKEN ON OUR DRESSES. For Women's and Misses' Frocks, Dresses, and Gowns. C. H. D. ROBBINS COMPANY, New York, N. Y. Published October 7, 1930.

12,823.—*Title:* FEATURING THE FOUR NEWEST DESIGNS OF GRACE TANCILL CREATIONS IN JERSEY. For Dresses. GRACE TANCILL, St. Louis, Mo. Published October 1, 1930.

REISSUES

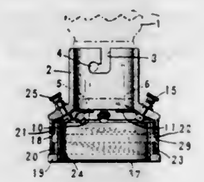
NOVEMBER 18, 1930

17,870. SHIFTABLE NUT FASTENING. FRED S. CARR, deceased, Newton, Mass., by United-Carr Fastener Corporation, Cambridge, Mass., assignee. Filed Mar. 18, 1930. Serial No. 436,913. Original No. 1,694,580, dated Dec. 11, 1928, Serial No. 45,279, filed July 22, 1925. 5 Claims. (Cl. 85—32.)



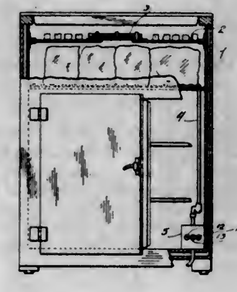
1. A shiftable nut device comprising, in combination, a pressed metal nut holder and a pressed metal nut, said holder having a base portion presenting an aperture therethrough to permit a screw to pass therethrough, opposed fingers extending therefrom and overlying portions of the nut to hold the nut in assembly with the holder, a boss presented by said nut and extending toward the base of the holder, opposed flanges presented by said nut having their edges terminating in substantially the same plane as the end of said boss to prevent entrance of said boss in the aperture provided in the base of the holder and opposed projections extending from the base of said holder to limit the movement of said nut in any direction generally crosswise relative to said fingers.

17,871. COMBINED TRANSFORMER AND ELECTRON-TUBE SOCKET. JOHN W. SIMMONS, Cleveland, Ohio, assignor, by mesne assignments, to Robert S. Allyn, New York, N. Y. Filed Mar. 22, 1927. Serial No. 177,456. Original No. 1,535,261, dated Apr. 28, 1925, Serial No. 635,805, filed Apr. 30, 1923. 4 Claims. (Cl. 175—356.)



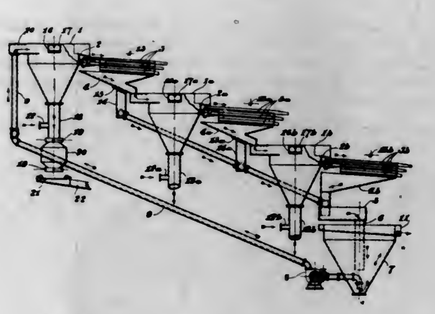
4. An electron tube apparatus comprising a socket arranged to receive an electron tube, terminals carried by said socket and arranged to establish connections with an electron tube inserted in said socket, a cylindrical transformer comprising a grooved rim, a core concentric therewith, and windings on said rim, said transformer being carried by a portion of said socket whereby extremely short connections may be made with said terminals.

17,872. REFRIGERATOR. AMOS V. PANKEY, Harrisonburg, Va. Filed Aug. 6, 1930. Serial No. 473,444. Original No. 1,712,713, dated May 14, 1929, Serial No. 243,255, filed Dec. 29, 1927. 4 Claims. (Cl. 62—31.)



4. A refrigerator having a drip conduit, means for holding ice and directing the drip water into said drip conduit, and metering means for measuring the amount of drip water flowing therethrough.

17,873. SEPARATION OF MATERIALS OF DIFFERENT SPECIFIC GRAVITIES. THOMAS M. CHANCE, Merion, Pa. Filed Aug. 15, 1930. Serial No. 475,609. Original No. 1,685,521, dated Sept. 25, 1928, Serial No. 202,030, filed June 28, 1927. 7 Claims. (Cl. 209—173.)



1. A method of separating materials of different specific gravities which consists in immersing said materials in a fluid mass consisting of an agitated mixture of liquid and comminuted solids heavier than said liquid and substantially insoluble therein and having a specific gravity intermediate that of the lighter and heavier of said materials, in providing a plurality of individual fluid masses of the

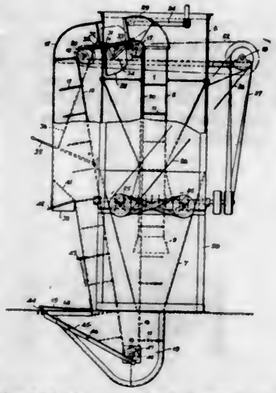
described type, in locating the top of said fluid masses at vertically differing elevations, said differences in elevation depending upon the horizontal distances separating said bodies, in proportioning the gradients between said fluid masses to permit the free flow of liquids by gravity from the top of the fluid mass at a higher elevation to that of one at a lower elevation, in separately feeding into each of said fluid masses materials to be separated thereby, in causing a mixture of comminuted solids and liquid to be circulated from a body of such mixture located at an elevation below said fluid masses into and across the higher of said fluid masses, in separating lighter materials transported by said fluid mixture away from said fluid mass from the constituents of said mixture and of said fluid mass intermixed therewith, in then passing said circulating mixture into and across the top of another of said plural separating fluid masses, in separating the lighter materials carried away from said second fluid mass by said circulating mixture, and in returning said circulating mixture, after the removal of said lighter materials into the said body of said mixture located at said lower level.

17,874. ELECTRIC RESISTANCE FURNACE ADAPTED FOR HARDENING BY NITROGENIZATION. ADOLF FRY, Essen-Ruhr, Germany, assignor, by mesne assignments, to The Nitralloy Corporation, a Corporation of Delaware. Filed July 20, 1929. Serial No. 379,861. Original No. 1,661,694, dated Mar. 6, 1928, Serial No. 126,650, filed Aug. 2, 1926, and in Germany Sept. 4, 1925. 4 Claims. (Cl. 266—1.5.)



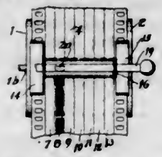
1. In an electric resistance furnace adapted for hardening metals by nitrogenization, a roller system, a nitrogenizing receptacle mounted thereon, and a removable electrically heated casing surrounding said receptacle and enclosing a portion of the roller system.

17,875. MIXING APPARATUS. GEORGE HERBERT HAINES, Caledonia, Ohio, assignor to The Grain Machinery Company, Marion, Ohio, a Corporation of Ohio. Filed Aug. 27, 1930. Serial No. 478,262. Original No. 1,769,576, dated July 1, 1930, Serial No. 398,902, filed Oct. 11, 1929. 16 Claims. (Cl. 259—4.)



1. Mixing apparatus comprising a mixing chamber, an upwardly-extending conduit within said chamber, and an endless conveyer movable upwardly through said conduit and having its downwardly-moving run disposed in a path outside of said chamber.

17,876. TALKING-PICTURE APPARATUS. FREEMAN H. OWENS, New York, N. Y. Filed Dec. 4, 1929. Serial No. 411,703. Original No. 1,735,335, dated Nov. 12, 1929, Serial No. 198,647, filed June 13, 1927. 11 Claims. (Cl. 179—100.3.)



11. Sound reproducing means comprising a light source, a multiplicity of sound records arranged side by side longitudinally on a film, means for moving said film, a light slit extending laterally of said film the width of all of said sound records, means for restricting the passage of light from said source through said slit to a selected one only of said sound records and a light sensitive device arranged to receive light modulated by the selected sound record.

DESIGNS

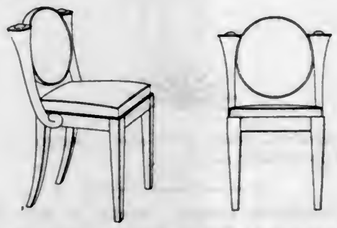
NOVEMBER 18, 1930

82,537. TEXTILE FABRIC. FRED W. BADER, Hillsdale, N. J., assignor to J. Kridel, Sons & Co., a Partnership of New York. Filed Aug. 29, 1930. Serial No. 36,820. Term of patent 7 years.



The ornamental design for a textile fabric as shown and described.

82,538. CHAIR. ALEXANDRA T. BARTLETT, New York, N. Y., assignor to Helen M. Snyder, New York, N. Y. Filed Aug. 6, 1930. Serial No. 36,569. Term of patent 7 years.



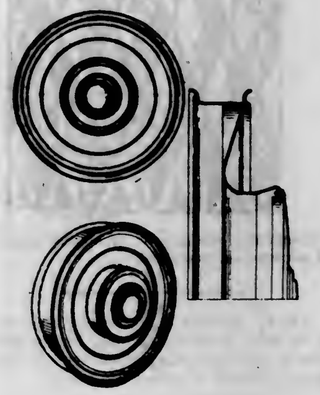
The ornamental design for a chair substantially as shown.

82,539. LIGHTING FIXTURE OR ARTICLE OF SIMILAR NATURE. HUGO BOHL, Westfield, N. J., assignor to Radiant Lighting Fixture Co. Inc., New York, N. Y. Filed Feb. 12, 1930. Serial No. 34,499. Term of patent 3½ years.



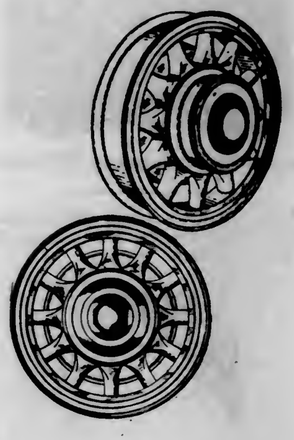
The ornamental design for a lighting fixture, or article of similar nature, as shown and described.

82,540. DISK WHEEL. WILLIAM N. BOOTH, Detroit, Mich., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich., a Corporation of New York. Filed May 13, 1929. Serial No. 31,199. Term of patent 14 years.



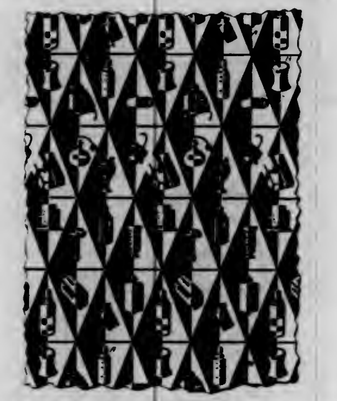
The ornamental design for a disk wheel substantially as shown.

82,541. WOOD WHEEL. WILLIAM N. BOOTH, Detroit, Mich., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich., a Corporation of New York. Filed May 13, 1929. Serial No. 31,200. Term of patent 14 years.



The ornamental design for a wood wheel substantially as shown.

82,542. WRAPPING PAPER. DONALD B. CLEMENT, New York, N. Y., assignor to McKesson & Robbins, Incorporated, Bridgeport, Conn., a Corporation of Connecticut. Filed June 7, 1930. Serial No. 35,956. Term of patent 14 years.



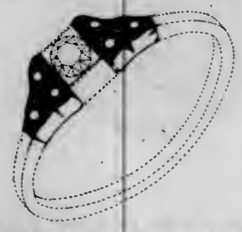
The ornamental design for wrapping paper substantially as shown and described.

82,543. LACE. GEORGE M. DICKEN, Hulmeville, Pa., assignor to John Bromley & Sons, Incorporated, a Corporation of Pennsylvania. Filed Sept. 5, 1930. Serial No. 36,878. Term of patent 3½ years.



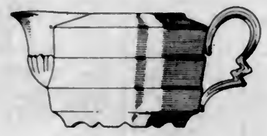
The ornamental design for lace, as shown and described.

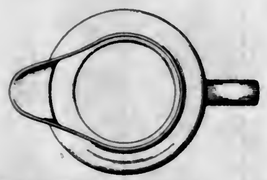
82,544. RING. ANTHONY FRANK DI CRISTINA, Los Angeles, Calif. Filed Nov. 13, 1929. Serial No. 33,435. Term of patent 7 years.



The ornamental design for a ring, as shown.

82,545. PITCHER OR THE LIKE. CHARLES WEISS, New York, N. Y. Filed June 27, 1929. Serial No. 31,847. Term of patent 7 years.





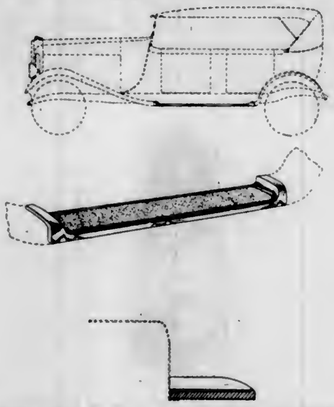
The ornamental design for a pitcher or the like, as shown and described.

82,546. SHOE ORNAMENT OR SIMILAR ARTICLE. EARL T. DUGAN, Providence, R. I., assignor to Abe Manheimer & Company, Inc., St. Louis, Mo., a Corporation of Missouri. Filed Sept. 9, 1930. Serial No. 36,920. Term of patent 3½ years.



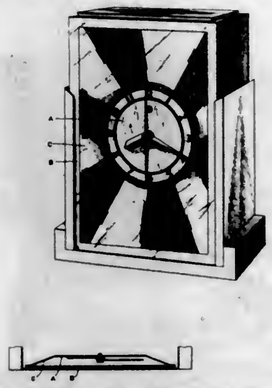
The ornamental design for a shoe ornament or similar article, substantially as shown.

82,547. RUNNING BOARD. HARLEY J. EARL, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Aug. 18, 1928. Serial No. 27,883. Term of patent 14 years.



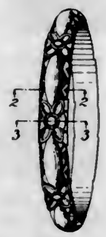
The ornamental design for a running board as shown.

82,548. COMBINED CLOCK CASING AND DIAL THEREFOR OR SIMILAR ARTICLE. PAUL T. FRANKL, New York, N. Y., assignor to Warren Telechron Company, a Corporation of Maine. Filed July 14, 1930. Serial No. 36,350. Term of patent 14 years.



The ornamental design for a combined clock casing and dial therefor or similar article as shown and described.

82,549. RING. ALBERT J. FRIEDMAN, Chicago, Ill. Filed Dec. 19, 1929. Serial No. 33,858. Term of patent 7 years.



The ornamental design for a ring, as shown.

82,550. BRIDGE MEMBER FOR AN OPTICAL MOUNTING. WILLIAM PETER GLINTENKAMP, Bellaire, N. Y., assignor to May Manufacturing Co. Inc., New York, N. Y. Filed Aug. 29, 1929. Serial No. 32,615. Term of patent 3½ years.

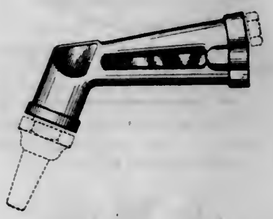




The ornamental design for a bridge member for an optical mounting, as shown and described.

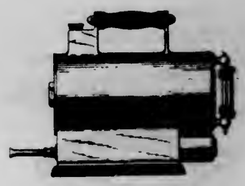
82,551. BLOWPIPE HEAD. FLORIN M. GIFFEN, Union, N. J., assignor to Oxweld Acetylene Company, a Corporation of West Virginia. Filed Aug. 16, 1929. Serial No. 32,423. Term of patent 14 years.

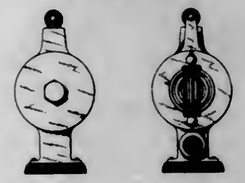




The ornamental design for a blowpipe head substantially as shown.

82,552. WATER HEATER. BENJAMIN D. GOLDBERG, New York, N. Y. Filed May 10, 1930. Serial No. 35,581. Term of patent 14 years.





The ornamental design for a water heater substantially as shown.

82,553. RIM FOR DOME LIGHTS OR THE LIKE. GEORGE GRAFF, Toledo, Ohio, assignor to The Dura Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 26, 1928. Serial No. 29,406. Term of patent 14 years.



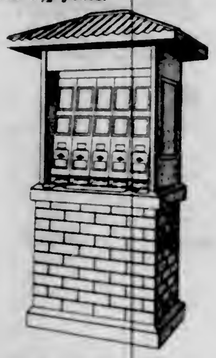
The ornamental design for a rim for dome lights or the like, substantially as shown.

82,554. GLASS DISH OR SIMILAR ARTICLE. WALTER J. GRAHAM, Marietta, Ohio. Filed Dec. 7, 1929. Serial No. 33,692. Term of patent 7 years.



The ornamental design for a glass dish or similar article, as shown and described.

82,555. GOODS-VENDING DISPLAY STAND. GARNET P. GRANT, Long Island City, N. Y., assignor to Autosales Corporation, Long Island City, N. Y., a Corporation of New York. Filed Aug. 22, 1929. Serial No. 32,508. Term of patent 3½ years.



The ornamental design for a goods vending display stand, as shown and described.

82,556. DISPLAY CASE. JOSEPH G. GREEN, San Francisco, Calif. Filed May 12, 1930. Serial No. 35,587. Term of patent 14 years.



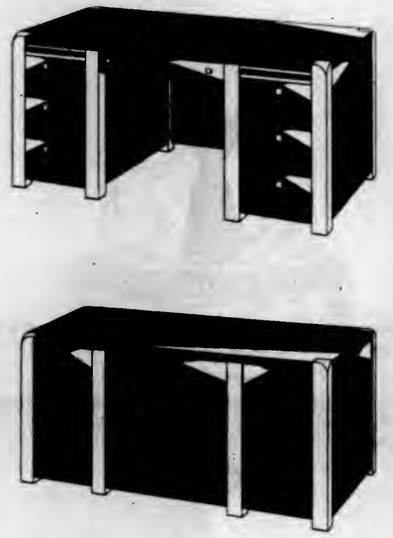
The ornamental design for a display case as shown.

82,557. CASING FOR A LIQUID-DISPENSING APPARATUS. WILLIAM M. GRIFFIN and CARROLL L. MERRIMAN, Fort Wayne, Ind., assignors to Wayne Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Dec. 2, 1929. Serial No. 33,600. Term of patent 14 years.



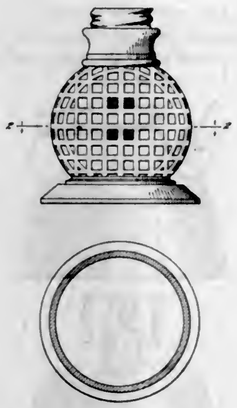
The ornamental design for a casing for a liquid dispensing apparatus as shown and described.

82,558. DESK. WILLIAM EARL GUNN, Grand Rapids, Mich., assignor to Gunn Furniture Company, Grand Rapids, Mich., a Corporation of Michigan. Filed Sept. 17, 1930. Serial No. 37,002. Term of patent 3½ years.



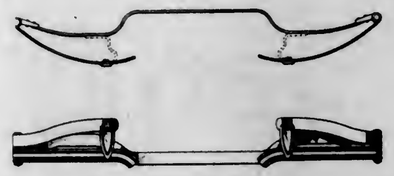
The ornamental design for a desk, as shown.

82,559. SALT AND PEPPER SHAKER OR SIMILAR ARTICLE. JAMES W. JENNINGS, Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Sept. 13, 1930. Serial No. 36,956. Term of patent 7 years.



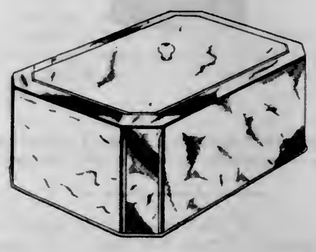
The ornamental design for a salt and pepper shaker or similar article substantially as shown.

82,560. BUMPER. HERBERT S. JANDUS, Detroit, Mich., assignor, by mesne assignments, to General Spring Bumper Corporation, a Corporation of Michigan. Filed July 28, 1927. Serial No. 22,917. Term of patent 3½ years.



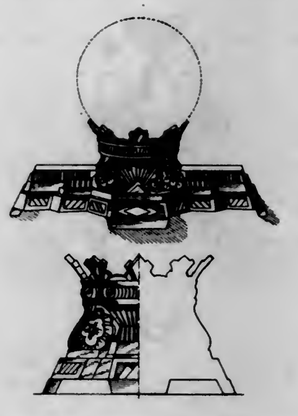
The ornamental design for a bumper substantially as shown and described.

82,561. COMBINATION BREAD AND CAKE COVER. PHILIP KEMPTER, Milwaukee, Wis., assignor to Gender, Paeschke & Frey Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 18, 1930. Serial No. 36,695. Term of patent 3½ years.



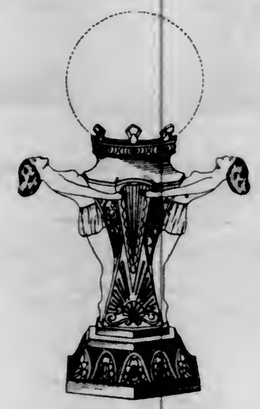
The ornamental design for a combination bread and cake cover as shown.

82,562. LAMP OR SIMILAR ARTICLE. MICHAEL KIWAD, New York, N. Y., assignor to La Belle Specialty Co. Inc., a Corporation of New York. Filed Aug. 30, 1930. Serial No. 36,837. Term of patent 3½ years.



The ornamental design for a lamp or similar article substantially as shown and described.

82,563. LAMP OR ARTICLE OF ANALOGOUS NATURE. MICHAEL KIWAD, New York, N. Y., assignor to La Belle Specialty Co. Inc., a Corporation of New York. Filed Aug. 30, 1930. Serial No. 36,838. Term of patent 3½ years.



The ornamental design for a lamp or article of analogous nature substantially as shown and described.

82,564. LAMP OR ARTICLE OF ANALOGOUS NATURE. MICHAEL KIWAD, New York, N. Y., assignor to La Belle Specialty Co. Inc., a Corporation of New York. Filed Aug. 30, 1930. Serial No. 36,839. Term of patent 3½ years.



The ornamental design for a lamp or article of analogous nature substantially as shown and described.

82,565. LAMP OR ARTICLE OF ANALOGOUS NATURE. MICHAEL KIWAD, New York, N. Y., assignor to La Belle Specialty Co. Inc., a Corporation of New York. Filed Aug. 30, 1930. Serial No. 36,841. Term of patent 3½ years.



The ornamental design for a lamp or article of analogous nature substantially as shown and described.

82,566. WEDDING RING. PHILIP KRASNOW, Brooklyn, N. Y. Filed Sept. 14, 1929. Serial No. 32,754. Term of patent 7 years.

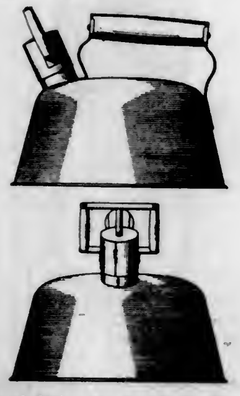






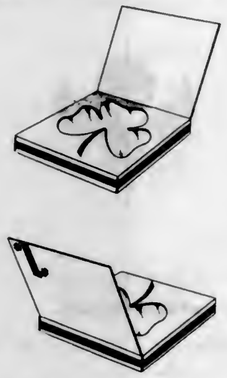
The ornamental design for a wedding ring, as shown and described.

82,567. WATER KETTLE. EDITH CARLA LAWSON, Geneva, N. Y. Filed Sept. 12, 1930. Serial No. 36,943. Term of patent 14 years.



The ornamental design for a water kettle as shown.

82,568. DISPLAY BOX. MURRAY LESSER, Brooklyn, N. Y. Filed Aug. 29, 1930. Serial No. 36,818. Term of patent 7 years.



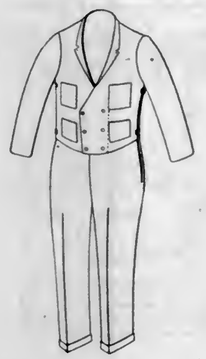
The ornamental design for a display box substantially as shown and described.

82,569. DRESS. DOROTHY LONG, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 27, 1930. Serial No. 36,799. Term of patent 3½ years.



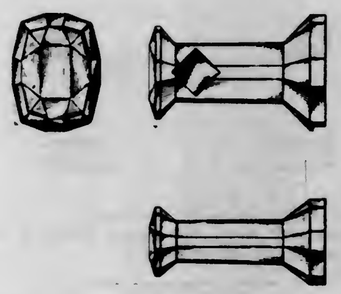
The ornamental design for a dress substantially as shown and described.

82,570. DOUBLE-BREASTED GARMENT. CLYDE G. LONGNECKER, Evanston, Ill. Filed Feb. 7, 1930. Serial No. 34,446. Term of patent 3½ years.



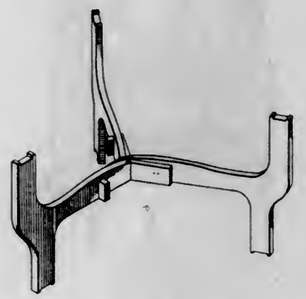
The ornamental design for a double breasted garment, as shown and described.

82,571. BRACKET FOR BATHROOMS. CHARLES H. LOVETT, Trenton, N. J., assignor to The Cook Pottery Company, Trenton, N. J., a Corporation of New Jersey. Filed Mar. 12, 1930. Serial No. 34,827. Term of patent 7 years.



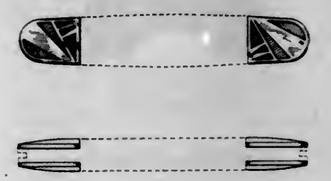
The ornamental design for a bracket for bathrooms, substantially as shown.

82,572. BOILER STAND. JOHN K. LUTON, Cleveland, Ohio, assignor to The Consolidated Iron-Steel Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 18, 1929. Serial No. 33,832. Term of patent 14 years.



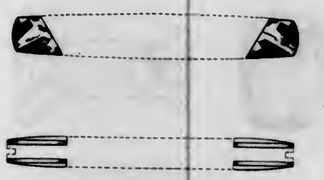
The ornamental design for a boiler stand, as shown.

82,573. KNIFE HANDLE OR SIMILAR ARTICLE. WALTER J. MATT, Utica, N. Y., assignor to Utica Cutlery Company, Utica, N. Y., a Corporation of New York. Filed June 28, 1930. Serial No. 36,221. Term of patent 7 years.



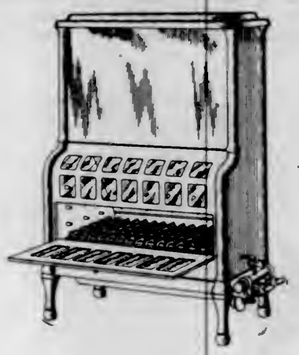
The ornamental design for a knife handle or similar article as shown and described.

82,574. KNIFE HANDLE OR SIMILAR ARTICLE. WALTER J. MATT, Utica, N. Y., assignor to Utica Cutlery Company, Utica, N. Y., a Corporation of New York. Filed June 28, 1930. Serial No. 36,222. Term of patent 7 years.



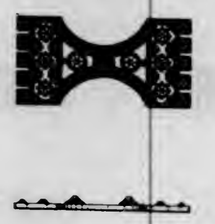
The ornamental design for a knife handle or similar article as shown and described.

82,575. COMBINED HEATER CASING AND FIRE BOX. HENRY C. MAUL, Detroit, Mich., assignor to Detroit Michigan Stove Company, Detroit, Mich., a Corporation of Michigan. Filed June 16, 1930. Serial No. 36,051. Term of patent 7 years.



The ornamental design for a combined heater casing and fire box substantially as shown.

82,576. BROOCH OR SIMILAR ARTICLE. BERNAT MECHLOVITS, New York, N. Y. Filed Sept. 4, 1930. Serial No. 36,864. Term of patent 3½ years.



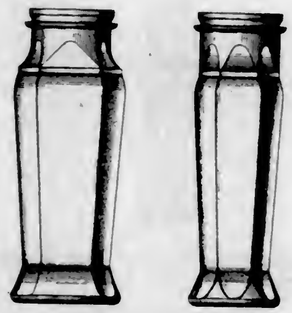
The ornamental design for a brooch or similar article, as shown.

82,577. BROOCH OR SIMILAR ARTICLE. BERNAT MECHLOVITS, New York, N. Y. Filed Sept. 22, 1930. Serial No. 37,041. Term of patent 3½ years.



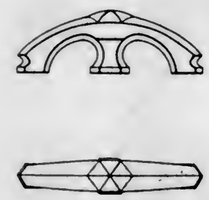
The ornamental design for a brooch or similar article, as shown.

82,578. BOTTLE OR SIMILAR CONTAINER. HERBERT OBLANDER, Chicago, Ill., assignor to Bunte Brothers, Chicago, Ill., a Corporation of Illinois. Filed Sept. 8, 1930. Serial No. 36,899. Term of patent 14 years.



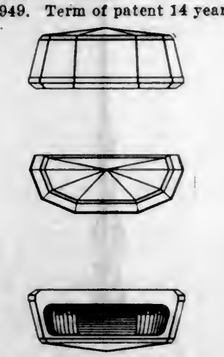
The ornamental design for a bottle or similar container as shown.

82,579. PULL KNOB. CLYDE H. OVERMYER and GEORGE J. OVERMYER, Hartford City, Ind. Filed Mar. 17, 1930. Serial No. 34,948. Term of patent 14 years.



The ornamental design for a pull knob as shown.

82,580. PULL HANDLE. CLYDE H. OVERMYER and GEORGE J. OVERMYER, Hartford City, Ind. Filed Mar. 17, 1930. Serial No. 34,949. Term of patent 14 years.



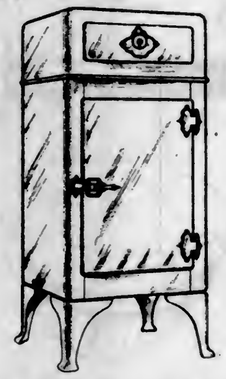
The ornamental design for a pull handle as shown.

82,581. PLATE OR THE LIKE. FREDERICK J. PETERS, Babylon, N. Y. Filed Sept. 16, 1930. Serial No. 36,979. Term of patent 7 years.



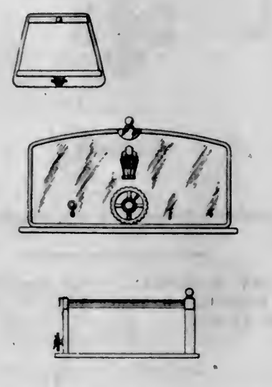
The ornamental design for a plate or the like, as shown.

82,582. REFRIGERATOR CABINET. HERMAN E. PLEASANT, Mansfield, Ohio, assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 15, 1930. Serial No. 34,563. Term of patent 14 years.



The ornamental design for a refrigerator cabinet substantially as shown.

82,583. RADIOCABINET. MARTIN PASTERNAK, New York, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware. Filed Jan. 16, 1930. Serial No. 34,160. Term of patent 3½ years.



The ornamental design for a radio cabinet substantially as shown.

82,584. LAMP. SAMUEL PERLA, Brooklyn, N. Y. Filed Aug. 23, 1930. Serial No. 36,750. Term of patent 7 years.



The ornamental design for a lamp substantially as shown and described.

82,585. WEDDING RING. ALBERT H. QUAST and OSCAR B. OLSEN, Chicago, Ill. Filed Mar. 15, 1930. Serial No. 34,903. Term of patent 3½ years.



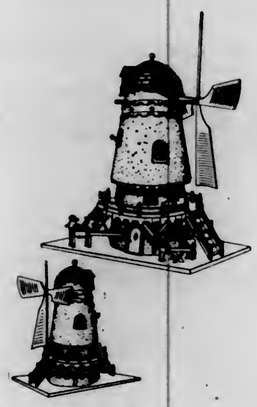
The ornamental design for a wedding ring, as shown and described.

82,586. COIN HOLDER. EDWARD A. RULFS, New York, N. Y. Filed Sept. 21, 1929. Serial No. 32,829. Term of patent 14 years.



The ornamental design for a coin holder, as shown and described.

82,587. TOY WINDMILL. OTTO SCHEIBE, Maquoketa, Iowa. Filed June 9, 1930. Serial No. 35,996. Term of patent 7 years.



The ornamental design for a toy windmill, as shown.

82,588. RADIATOR CAP OR SIMILAR ARTICLE FOR AN AUTOMOTIVE VEHICLE. WILLIAM SCHNELL, Detroit, Mich., assignor to Ternstedt Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed June 19, 1930. Serial No. 36,099. Term of patent 7 years.



82,588—Continued.



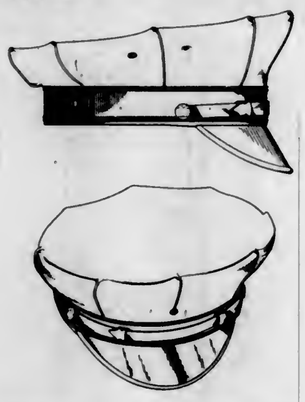
The ornamental design for a radiator cap or similar article for an automotive vehicle substantially as shown.

82,589. BREAKFAST-NOOK BENCH. GEORGE A. SIMONS and GEORGE FREEBERG, Minneapolis, Minn., assignors to Simons Millwork, Inc., Minneapolis, Minn., a Corporation of Minnesota. Filed May 31, 1929. Serial No. 31,499. Term of patent 14 years.



The ornamental design for a breakfast nook bench as shown.

82,590. UNIFORM CAP. ALBERT R. STERN, New York, N. Y. Filed July 30, 1930. Serial No. 36,516. Term of patent 3½ years.



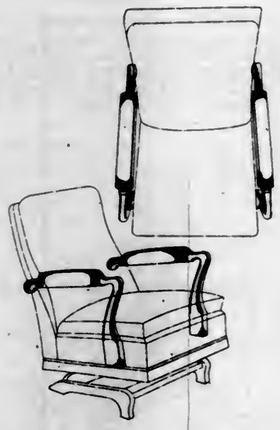
The ornamental design for a uniform cap or similar article as shown.

82,591. TEXTILE FABRIC OR THE LIKE. LEONARD L. STEED, Johnson City, N. Y., assignor to Endicott Johnson Corporation, Endicott, N. Y., a Corporation of New York. Filed Jan. 9, 1930. Serial No. 34,060. Term of patent 14 years.



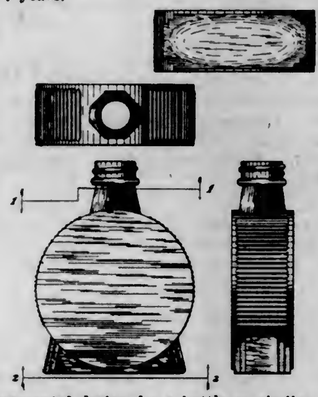
The ornamental design for a textile fabric or the like, substantially as shown and described.

82,592. CHAIR OR SIMILAR ARTICLE. CARL F. STREIT, Cincinnati, Ohio. Filed July 24, 1930. Serial No. 36,460. Term of patent 3½ years.



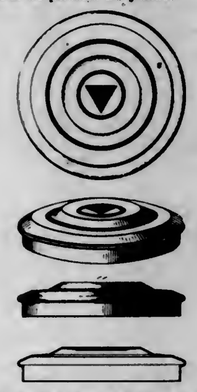
The ornamental design for a chair or similar article as shown.

82,593. BOTTLE OR SIMILAR CONTAINER. WALTER D. TEAGUE, Forest Hills, N. Y., assignor to Turner Glass Corporation, Terre Haute, Ind., a Corporation of Indiana. Filed Sept. 8, 1930. Serial No. 36,907. Term of patent 7 years.



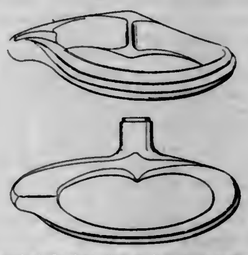
The ornamental design for a bottle or similar container as shown.

82,594. HUB CAP. MILLARD H. TONCRAY, Detroit, Mich., assignor to Hudson Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 15, 1930. Serial No. 34,897. Term of patent 14 years.



The ornamental design for a hub cap substantially as shown.

82,595. LATCH HANDLE. FREDERICK C. RUPPEL, Grand Rapids, Mich., assignor, by mesne assignments, to Checker Cab Manufacturing Corporation, Kalamazoo, Mich. Filed July 28, 1930. Serial No. 36,494. Term of patent 7 years.

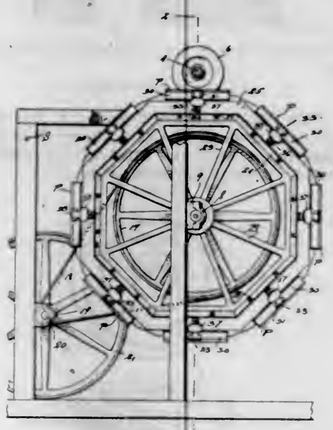


The ornamental design for a latch handle as shown.

PATENTS

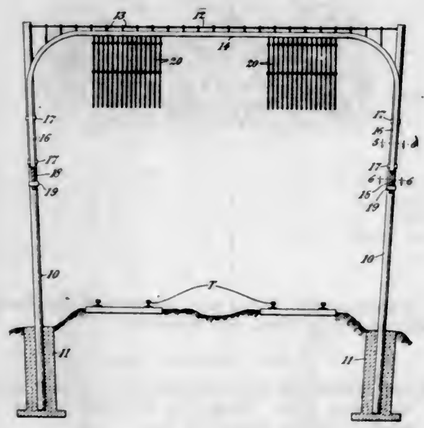
GRANTED NOVEMBER 18, 1930

1,781,674. AUTOMATIC PLANER-KNIFE GRINDER. WILLIAM HALE ASHWORTH, Columbia, S. C. Filed July 14, 1927. Serial No. 205,649. 3 Claims. (Cl. 51—134.)



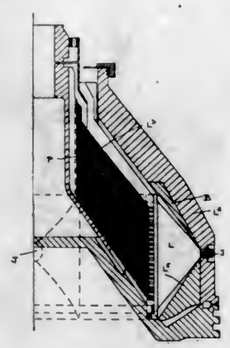
1. A planer knife grinding machine comprising, in combination, a supporting structure, a rotating grinder carried thereby and including a rim, a shaft disposed in a direction parallel to the axis of the grinder, means for supporting the shaft both for rotation and endwise movement, means for rotating the shaft, a blade carried by the shaft for rotation therewith, the rim of the carrier having a series of circumferentially spaced facets, each of said facets being disposed transversely of an incline with the high point of the facet at the side of the carrier adjacent to the grinder, the high marginal portion of each of the facets being provided therealong with a rabbet to receive the inner marginal portion of a blade to be ground with the opposite marginal portion of the blade extending beyond the high point of the facet, means carried by the facet and coacting with an applied blade and the portion of the facet rearwardly of the blade to hold the blade in applied position, and an expansible spring contacting with an end of the shaft for urging the carrier in a direction toward the grinder.

1,781,675. BRIDGE WARNING INDICATOR. HERBERT R. CAMPBELL, Paterson, N. J. Filed Aug. 7, 1928, Serial No. 298,121. Renewed Feb. 18, 1930. 9 Claims. (Cl. 246—486.)



1. In a bridge warning indicator, supporting means including a fixed substantially horizontal housing extending across the railroad track, a tell-tale carrier directly supported by and slidable lengthwise on said fixed housing, and tell-tales depending from and slidable with said carrier.

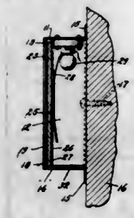
1,781,676. CENTRIFUGAL LIQUID PURIFIER. JAMES WALTER ADAMS, Bradford, England. Filed Dec. 20, 1929, Serial No. 415,380, and in Great Britain Jan. 4, 1929. 3 Claims. (Cl. 233—46.)



1. In a centrifugal action liquid purifier of the plate type, the combination of a bowl having unobstructed jets

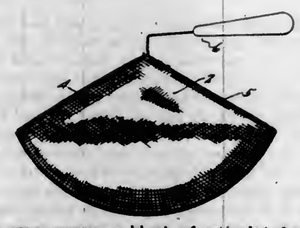
disposed in the major diameter thereof, said bowl being shaped at its interior to give a lead in every direction to each of said jets, and leads disposed within the plate system and forming a continuation of those formed in the bowl.

1,781,677. ILLUMINATED SIGN. GEORGE H. BARNES, Joliet, Ill. Filed Apr. 30, 1927. Serial No. 187,890. 5 Claims. (Cl. 40—133.)



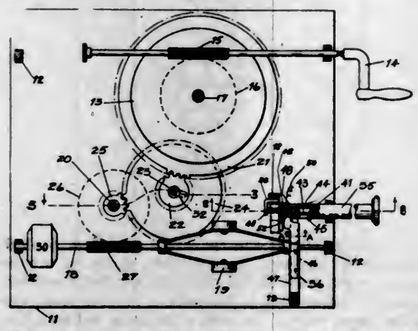
1. In a device of the class described, a housing comprising side and front walls having outwardly extending flanges formed integral with the side walls, the front wall having an opening, a transparent member covering said opening, opaque members having character openings therein disposed against said transparent member, a removable frame against said transparent member, and yielding means secured to the housing holding said frame against said opaque members.

1,781,678. CORN POPPER. ARTHUR H. BASEL, Ithaca, Nebr. Filed May 5, 1930. Serial No. 449,760. 2 Claims. (Cl. 53—4.)



1. In a corn popper, a blank of reticulated material the corner portions of the said blank being bent upwardly and inwardly and sewed together along their proximate edges to form a bag, and means for inserting corn into the bag and removing the corn from the bag.

1,781,679. PHONOGRAPH. RICHARD BRENCHLEY, Reims, France, assignor, by mesne assignments, to Dual Motors Ltd., London, England. Filed Jan. 4, 1927, Serial No. 158,878, and in France Jan. 14, 1926. 13 Claims. (Cl. 185—2.)



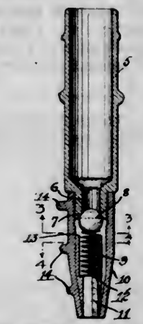
1. In a phonograph, the combination of a spring driven drum, an electric motor, a chain of speed increasing gearing connecting the drum with the motor, and a turntable spindle carrying an intermediate gear of said connecting gearing.

1,781,680. ELECTROMECHANICAL SYSTEM. WALTER G. CADY, Middletown, Conn., assignor to Radio Corporation of America, a Corporation of Delaware. Filed Aug. 1, 1925. Serial No. 47,483. 4 Claims. (Cl. 171—327.)



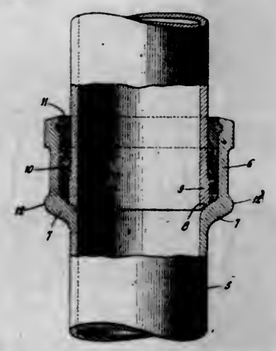
1. A piezo-electric resonator comprising two piezo-crystal plates attached on opposite sides of a layer of electrically conductive material, the outer faces of the plates being provided with conductive coatings electrically connected together, the whole structure being adapted to vibrate flexurally with both ends free.

1,781,681. GREASE NOZZLE. GEORGE W. COOKE, Forest Hills, N. Y., assignor, by mesne assignments, to Allied Die-Casting Corporation, Long Island City, N.Y., a Corporation. Filed Feb. 8, 1928. Serial No. 252,802. 6 Claims. (Cl. 251—144.)



6. A lubricating nozzle comprising a body member having a tip at its outer end, said tip portion having a plurality of parallel ribs providing passages between them, said ribs being shouldered to form a seat, a spring mounted on said seat, and a valve for closing the passages through the nozzle held to its work by said spring.

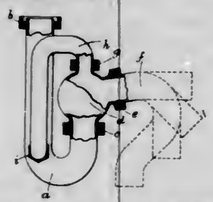
1,781,682. SOIL PIPE. JOSEPH J. CROTTY, New York, N. Y., assignor to The Universal Pipe and Radiator Company, New York, N. Y., a Corporation of Maryland. Filed Mar. 15, 1928. Serial No. 261,801. 2 Claims. (Cl. 285—115.)



1. In a pipe joint of the bell and spigot type a bell having an interior tapered shoulder adapted to receive

the tapered spigot end of an adjacent pipe, the wall of said bell being substantially thickened at said shoulder to reinforce the same, the thickened portion being gradually merged into the main section of said pipe and the main wall of the bell without abrupt alterations in thickness and without abrupt shoulders, said thickened portion at its outer end extending beyond the main wall of said bell end to form a reinforcing bead.

1,781,683. ANTISIPHONIC LIQUID-SEAL TRAP. JOHN MCDERMID, Ennerdale, England. Filed Mar. 14, 1930, Serial No. 435,777, and in Great Britain Mar. 23, 1929. 5 Claims. (Cl. 182—12.)



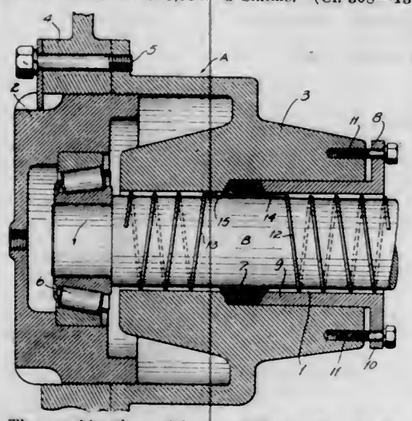
1. In an antisiphoning trap, a U-shaped pipe, a chamber of larger diameter than said U-shaped pipe connected to the outlet limb of said U-shaped pipe, an antisiphoning pipe detachably connected to the lower portion of the inlet limb of said U-shaped pipe and to said chamber, and an outlet pipe connected to said chamber.

1,781,684. GOLF TEE. LOUIS DUNKELSBERG, New York, N. Y. Filed June 4, 1926. Serial No. 113,626. 1 Claim. (Cl. 273—33.)



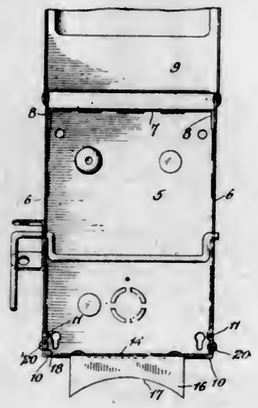
A molded golf tee composed of flat celluloid of substantially uniform thickness including a disk shaped head having top concavity, a triangular shaped prong at an angle of less than 90° with said head and joined to said head by a bent portion arranged with a curvature from a continuation of the material of a side of said head into the plane of said prong.

1,781,685. SHAFT INCLOSURE. PARDEE H. FRANK, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Feb. 8, 1929. Serial No. 338,581. 3 Claims. (Cl. 308—134.)



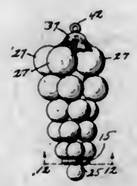
1. The combination with a rotating shaft, of an oil containing bearing casing comprising a main oil containing body portion and a closure member therefor having an opening adapted to receive said shaft, and two reversely wound helical coils surrounding said shaft one at the inner and the other at the outer end of the opening in said closure member.

1,781,686. METER-ENTRANCE SWITCH BOX. SAMUEL HAMMER, Brooklyn, N. Y. Filed Mar. 13, 1925. Serial No. 15,423. 1 Claim. (Cl. 247—2.)



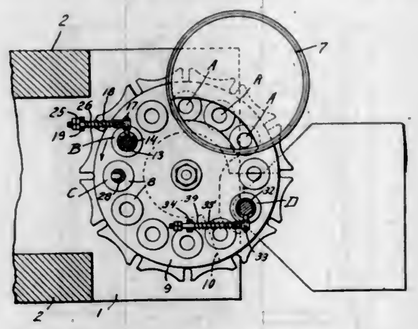
A meter entrance switch box open at one end and having opposite side walls at said open end thereof each provided with an inwardly projecting flange, each of said side walls being further provided in laterally spaced relation from said flange with an inwardly pressed rib extending substantially the entire depth of the box, said rib and the flange with the part of the box wall connecting the same forming a vertical guide channel, a meter adapted end wall for said open end of the box provided at its opposite side edges with angularly disposed flanges adapted for removable engagement in said side wall channels in contacting engagement with the base walls of said channels between the flanges and stop ribs, and means for detachably securing said adapted end wall in its applied position with respect to the side walls of the box.

1,781,687. ORNAMENTING DEVICE AND METHOD OF MAKING THE SAME. JACOB HAZMAN, Providence, R. I., assignor to Leo Weiner, Providence, R. I. Filed Dec. 7, 1929. Serial No. 412,335. 7 Claims. (Cl. 41—10.)



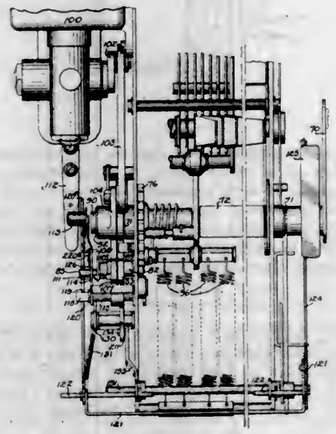
1. In an article of the character described, a plurality of annularly arranged binding rods, series or ornaments mounted upon each of the rods, an abutment member engaging the lower ends of the rods, a binding loop connecting the upper ends of the rods, a clamping rod engaging the abutment member at its lower end, and a plate upon the upper portion of the rod engaging the series of ornaments.

1,781,688. METHOD OF AND APPARATUS FOR MAKING DRY-CELL CORES. JOSEPH M. HENDERSON, Madison, Wis., assignor to Burgess Battery Company, Madison, Wis., a Corporation of Wisconsin. Filed Dec. 21, 1927. Serial No. 241,585. 17 Claims. (Cl. 18—5.)



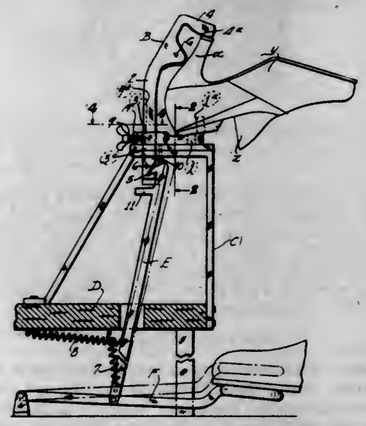
1. Means for making a cylindrical dry cell core comprising an open top cylindrical mold with a removable bottom, a tamping tool having a conically countersunk face with the face of said cone at an angle of about 30° with a plane perpendicular to the axis of the tool, means for reciprocating said tamping tool in said mold to compress moist depolarizing mix previously introduced into said mold, means for twisting said tamping tool during the last part of its downward stroke and first part of its upward stroke, means for ejecting said core from said mold, said means comprising a cylindrical knockout punch having a conically countersunk face with the face of said cone at an angle of about 20° with a plane perpendicular to the axis of said punch and having a recess to accommodate a carbon rod projecting upward from said mix, means for reciprocating said punch to push through and discharge said core from the bottom of said mold, and means for twisting said punch during its downward stroke while contacting with said mix.

1,781,689. CONTROLLING MECHANISM FOR POWER-DRIVEN CALCULATING MACHINES. ALLEN A. HORTON, Plymouth, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a Corporation of Michigan. Original application filed Jan. 29, 1926, Serial No. 84,616. Divided and this application filed Dec. 30, 1926. Serial No. 158,078. 15 Claims. (Cl. 192—.02.)



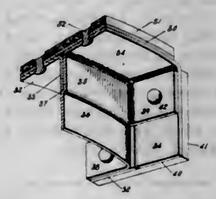
5. The combination in a calculating machine of an operating mechanism having a forward and a return stroke of movement, an electric driving means therefor, a pawl urged toward a position to connect the operating mechanism to the driving means, a latch for restraining said pawl, an electric switch adapted to be closed to start the driving means, an operating member for the switch, said operating member engaging said latch to release said pawl as said member is moved to close the switch, and means carried by the operating mechanism and engaging said operating member during the return stroke of said mechanism for returning said member to open said switch.

1,781,690. CLAMPING APPARATUS FOR SHOE HEELS. ALBERT F. KOEPPE, St. Louis, Mo. Filed July 18, 1927. Serial No. 206,582. 10 Claims. (Cl. 12—125.)



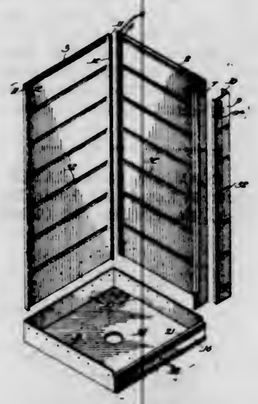
1. A shoe heel clamping apparatus, comprising a supporting means, a stationary clamping member adapted to be mounted on said supporting means beneath a shoe, a movable clamping member adapted to be arranged in engagement with the heel that is positioned on the sole of said shoe, a shank on said movable member projecting downwardly through a hole in said stationary member, a means removably combined with said shank for drawing said clamping members together so as to force the heel tightly against the sole of the shoe, comprising a treadle operated link provided at its upper end with a hook that it adapted to engage a part on said shank when said link is moved downwardly, and means for disengaging said hook from said shank when said link moves upwardly.

1,781,691. BRAKE. ROBERT F. KOHR, South Bend, Ind., assignor to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey. Filed Jan. 16, 1928. Serial No. 247,225. 12 Claims. (Cl. 188—250.)



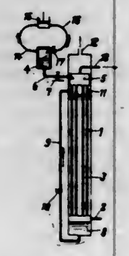
1. A brake shoe comprising two angular sections secured back to back, the reinforcing web of one section having an offset therein and having the inner edge thereof extending beyond the reinforcing web of the other of said sections.

1,781,692. SHOWER CABINET. FREDERICK H. LEWIS, Chicago, Ill. Filed Feb. 1, 1930. Serial No. 425,105. 17 Claims. (Cl. 4—145.)



1. In a shower bath casing, a pan having an upturned rim, an inclosure comprising a rear panel, side panels and pilasters extending upwardly from and secured to said upstanding rim, the front edge of said rim being flanged inwardly and downwardly to provide a threshold and a reinforcing member inserted between said flange and the bottom of said pan.

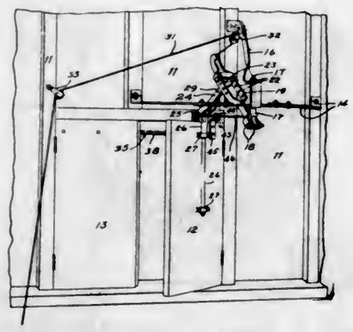
1,781,693. PROCESS FOR LIQUEFYING AND SEPARATING GAS MIXTURES. KARL EDUARD RUDOLF MEWES, Dortmund, Germany. Filed Nov. 17, 1925, Serial No. 69,653, and in Germany Nov. 18, 1924. 5 Claims. (Cl. 183—115.)



5. The process for the separation of gaseous mixtures, particularly of air, which includes compressing a gaseous mixture to a high pressure, expanding it to form a liquid portion under a lower pressure, returning the unliquefied portion of said mixture to be recompressed, evaporating said liquid at a still lower pressure, causing air to flow upwardly in a stream under low pressure, partially liquefying the air in said stream, collecting the liquid at the lower end of said stream, evaporating said last mentioned liquid, and transferring heat from said stream to both of said liquids to effect the evaporation of both and to effect the said partial liquefaction.

1,781,694. DOOR-OPERATING MECHANISM. LOUIS MEYER, Milford, Ill. Filed Nov. 13, 1926. Serial No. 148,175. 3 Claims. (Cl. 268—62.)

1. The combination with a vertical support having two complementary door members hinged therefrom; of a door operating mechanism comprising a frame relatively stationary with respect to the pivotal door member; two link mechanisms pivotally and rotatably joined to the frame and one of the door members respectively, one link being pivotally joined intermediate the ends of the



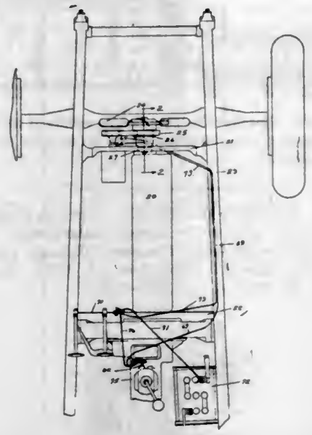
second link; the free end of said second link extending across the path of movement of said first link; means secured to the free end of the second link for manipulating the links; and means interconnecting the doors for effecting coactive movement therebetween.

1,781,695. REEL FOR FISHING RODS AND THE LIKE. LORENZO MITCHELL-HENRY, London, England. Filed July 27, 1928, Serial No. 295,667, and in Great Britain Aug. 15, 1927. 10 Claims. (Cl. 242—84.7.)

1. A reel for a fishing rod and the like comprising the combination of a rotary spool, a hand-operable driving shaft mounted in axial alignment with said spool, clutch mechanism interposed between said shaft and spool for frictionally connecting these parts, and a movable member operated by said shaft for positively connecting the latter to said spool independently of said clutch mechanism.

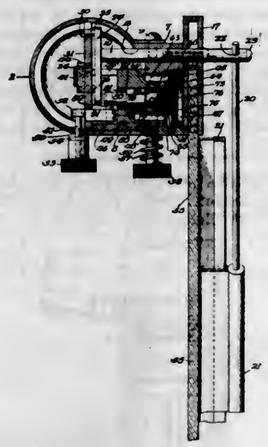
1,781,696. INTERNAL-COMBUSTION ENGINE. EDWARD C. NEWCOMB and DELMAR G. ROOS, South Bend, Ind., assignors to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey. Filed June 4, 1928. Serial No. 282,680. 11 Claims. (Cl. 123—171.)

1. In an internal combustion engine, a cooling fan therefor, driving means for said fan, magnetic means for normally holding said fan in engagement with said driving means at speeds less than a predetermined speed of



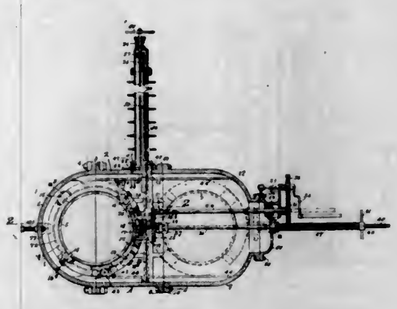
said driving means and means for controlling the action of the magnetic means independent of the speed of the driving means.

1,781,697. WINDSHIELD-CLEANER-OPERATING MECHANISM. JOHN L. NILSON and JOHN F. PRINCE, Chicago, Ill. Filed Aug. 25, 1923. Serial No. 659,245. 9 Claims. (Cl. 121—164.)



1. The combination with a cylinder or casing for a wind shield cleaner operating mechanism, of a reciprocatory member within the casing, a valve responsive in its operation to the movement of said member, said member having oppositely inclined slide contact tracks or surfaces, an oscillatory shaft, a crank on said shaft having parts connected therewith to be engaged by said tracks or surfaces, whereby the shaft will be oscillated when said member is reciprocated, means for imparting reciprocating movement to the said member, and means for maintaining said shaft at rest during a predetermined time in and at a predetermined point of the reciprocation of said member to permit movement of the valve independently of the shaft.

1,781,698. VALVE-INSERTING METHOD AND MECHANISM. DENIS F. O'BRIEN, East Orange, N. J. Filed July 18, 1925. Serial No. 44,494. 4 Claims. (Cl. 137—73.)



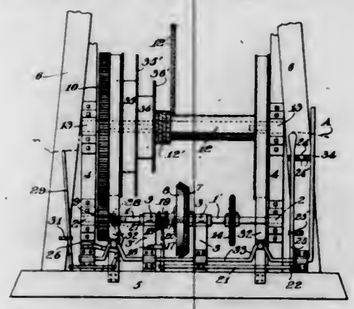
1. The method of inserting valve mechanism in a pipe without shutting off the flow of fluid therein including the steps of applying a rotary pipe cutter to said pipe to cut a section transversely therefrom, permanently securing to said pipe a valve body having an open end projecting in a substantially horizontal direction beyond the side of the pipe and provided with endwise adjustable valve seats, temporarily applying to said valve body a vertically arranged dome bearing a gate movable across the open end of the valve body in an aperture near the end thereof, also temporarily applying to said valve body a casing in substantial horizontal alinement therewith and having mechanism for rotating the cutter and outside means for operating said mechanism, rotating the cutter around the pipe to cut a section of the pipe, removing the cutter and cut pipe section from the valve body and into said casing, moving the gate aforesaid across the open end of the valve body to temporarily close it, removing the casing containing the cutter rotating mechanism, permanently securing to the open end of the valve body in substantial horizontal alinement therewith a dome bearing a pair of valve disks and trimmings and means projecting therefrom for moving said disks and trimmings into the valve body and for moving said disks to and from the valve seats in the valve body, adjusting the valve seats relatively to the cut ends of the severed portion of the pipe and to their respective valve disks, withdrawing the temporary gate aforesaid from the aperture aforesaid, applying permanent closure means to the outer end of said aperture, and removing the dome bearing said gate.

1,781,699. REENFORCED CONCRETE PIPE. WALTER C. PARMLEY, Upper Montclair, N. J. Filed May 7, 1927. Serial No. 189,613. 9 Claims. (Cl. 72—53.)



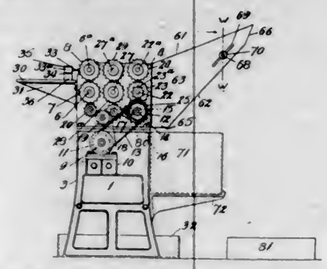
1. A concrete pipe section having a plurality of grooves extending circumferentially of said pipe, reenforcing means disposed in said grooves under tension and adapted to create an initial compression in said pipe, means for sealing said reenforcing means within said grooves, and means for preventing adhesion between said reenforcing means and said sealing means.

1,781,700. HOISTING MACHINE. GLADE W. PAYNE, Vergil, Kans., assignor of one-half to James F. Neely, Emporia, Kans. Filed June 26, 1928. Serial No. 288,358. 2 Claims. (Cl. 254—145.)



1. In a transmission for portable oil well pulling machinery, the combination with a spool having a gear on one end thereof and rotatably mounted on the frame of a gin pole and a power transmission, comprising a chain sprocket rigidly connected to a drive shaft, the said drive shaft being separated by a friction clutch from a driven shaft and the driven shaft having a gear rotatable therewith and slidable thereon and in mesh with the gear mounted on the spool when in position, levers as means to release the clutch and levers as means to disengage the gears substantially as shown.

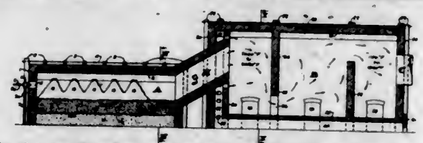
1,781,701. MACHINE FOR REMOVING FLAGS AND OTHER ADHERING LEAF FROM THE STALKS OF TOBACCO LEAVES. MORRIS GODFREY PHILIP PHILLIPS, London, England. Filed Aug. 21, 1928, Serial No. 301,064, and in Great Britain May 16, 1928. 8 Claims. (Cl. 131—57.)



1. In a machine for stripping or removing the leaf portions of tobacco from the stems, in combination, rollers adapted to feed the stem, rotary brushes preceding said feed rollers and running at a lower speed than said feed rollers, other rotary brushes succeeding said feed rollers and running at a higher speed than said feed rollers, a box like body, into which the stems and tobacco pass from the second brushes, said body comprising side and top members and an inclined bottom member, said body having therein an opening at the inner end thereof and an opening at the outer end thereof, a partition disposed transversely of said body and in spaced relationship to the ends and top thereof, and means for causing a current of air to pass through said body.

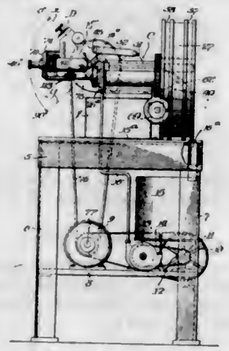
1,781,702. PROCESS OF MANUFACTURING HIGH-GRADE ZINC OXIDE. FREDERIC E. PIERCE, New York, N. Y. Filed July 9, 1921, Serial No. 483,552. Renewed Mar. 30, 1928. 15 Claims. (Cl. 23—148.)

13. That process of treating zinc carrying ores which comprises smelting said ores in a reducing atmosphere in a reverbatory furnace and in a reducing atmosphere in the presence of carbon and such other substances as will form a slag with the ore impurities and then conveying the zinc vapor into a combustion chamber and introducing



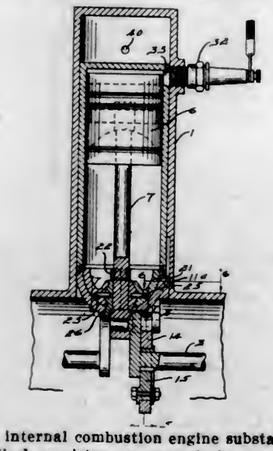
air therewith whereby the vapors are oxidized and cooled, then separating the oxidized zinc from the remaining gaseous products.

1,781,703. CUTTING MACHINE. JERRY J. PONDELICEK, Chicago, Ill., assignor, by mesne assignments, to Acme Motion Picture Projector Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 14, 1922. Serial No. 600,832. 20 Claims. (Cl. 90—135.)



1. In a device of the character described, in combination, means for rotating an object to be worked upon, a cutting tool, and means for initially applying a cutting tool in a plane substantially tangentially to the periphery of said object and in a plane radially of such object, said means operating to displace the tool relatively to the object in a curved path during cutting and without disturbing the radial relationship of the tool and object.

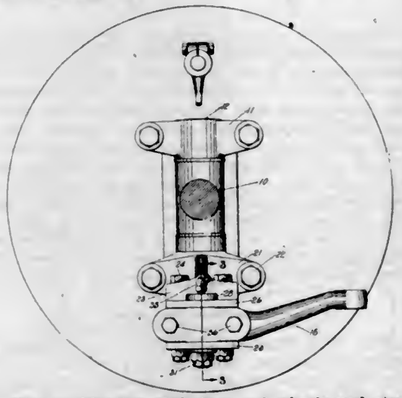
1,781,704. INTERNAL-COMBUSTION ENGINE. ROBERT A. REYNOLDS, Detroit, Mich. Filed Jan. 8, 1930. Serial No. 419,429. 11 Claims. (Cl. 123—47.)



7. In an internal combustion engine substantially of the type described, a piston, a crankshaft, a connecting rod joining the two, a sleeve in which the piston moves, means for reciprocating the sleeve in timed relation to piston movements, a substantially half-spherical member closing

the end of the sleeve through which the connecting rod projects, said member being slotted for the reception of the connecting rod, means sealing against the connecting rod and allowing the same to reciprocate therethrough and sealing against the said member to close the slot, said means being rockable in the half-spherical member to accommodate for angular positions at the connecting rod, and means on the sealing member projecting through the slot and overlying an outside surface of the half-spherical member.

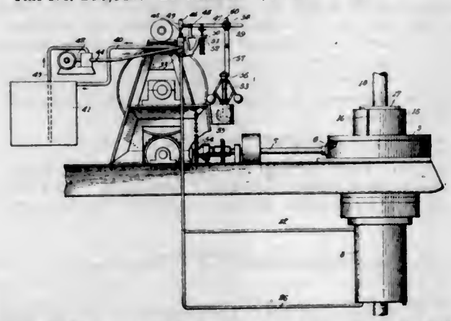
1,781,705. STEERING MECHANISM. DELMAR G. ROOS, South Bend, Ind., assignor to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey. Filed Mar. 22, 1928. Serial No. 263,905. 9 Claims. (Cl. 280—95.)



1. The combination with the road wheels and steering cross tube of a motor vehicle, of means connecting one of said wheels with said cross tube comprising a bracket rigidly secured on the steering knuckle of said wheel, an arm pivotally connected with said cross tube pivotally supported in said bracket for permitting pivotal movement of one of said wheels relative to the other wheel, and means between said arm and bracket positioned on each side of the pivotal axis of said arm for normally constraining said wheels to equal pivotal movement.

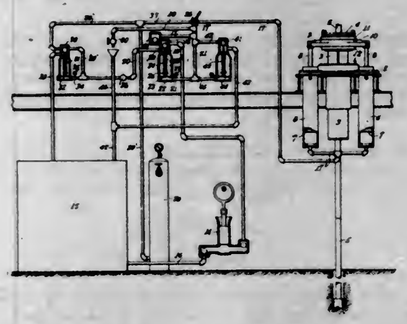
8. A steering mechanism for a motor vehicle road wheel comprising a support extending from the wheel steering knuckle, a steering arm pivotally mounted in said support on a pin having its longitudinal axis substantially parallel with the longitudinal axis of the steering knuckle to provide pivotal movement of said arm relative to said wheel, and means for normally constraining said arm to pivot with said wheel.

1,781,706. WELL-DRILLING APPARATUS. WALDO SHELDON, South Norwalk, Conn. Filed May 5, 1926. Serial No. 106,850. 17 Claims. (Cl. 255—22.)



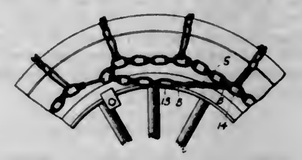
1. In well drilling apparatus, a table for rotating the drill hydraulic power mechanism for controlling feed of the drill, a control valve for said hydraulic power mechanism and a speed governor associated with the table and adapted to exercise control over said valve.

1,781,707. WELL-DRILLING APPARATUS. WALDO SHELDON, South Norwalk, Conn. Filed May 16, 1927. Serial No. 191,795. 14 Claims. (Cl. 255—22.)



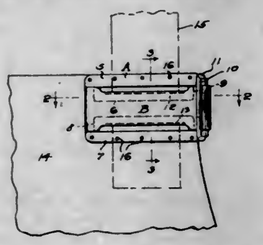
3. In well drilling apparatus, a hydraulic cylinder, a piston therein operative in one stroke to govern the drill feed, a pressure storing reserve tank for containing a reserve supply of fluid for effecting rapid return stroke of the piston, a pump for supplying actuating fluid to the cylinder and reserve tank, connections from the pump to the cylinder and reserve tank and means automatically governed by the pressure in the cylinder and reserve tank for controlling the flow from the pump to the cylinder and reserve tank.

1,781,708. METHOD OF FASTENING LOOSE ENDS OF TIRE CHAINS. THEODORE E. SHELDRAKE, Philadelphia, Pa. Filed May 15, 1928. Serial No. 277,828. 2 Claims. (Cl. 267—74.)



1. A tire chain having the superfluous loose end links, in combination with means for securing said links, said means comprising a resilient member having one end attached to said links and the other attached to another portion of the chain, substantially as described.

1,781,709. BUCKLE. THOMAS S. SPEAR, Nichols, Fla. Filed Feb. 7, 1930. Serial No. 426,606. 4 Claims. (Cl. 24—166.)



1. A device of the character described, comprising a base consisting of a longitudinally extending center bar,

opposite side bars and transverse end bars, of a hinged tongue extending longitudinally along and over the center bar and carried by the rear transverse bar, and a swinging bail carried by the front transverse bar of the base, adapted to swing inwardly over the free end of the tongue, said tongue being provided with inwardly projecting flanges along its opposite edges, which project over but lie in spaced relation to the center bar.

1,781,710. ELECTRIC SWITCH. WILLIAM C. STEVENS and GEORGE J. MEUER, Milwaukee, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a Corporation of Delaware. Filed July 25, 1929. Serial No. 380,905. 12 Claims. (Cl. 200—6.)

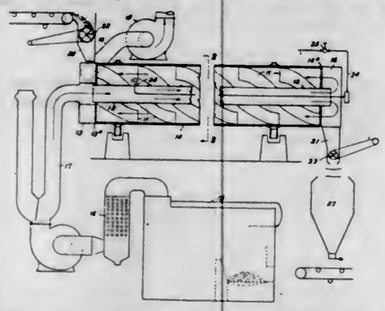


1. In a multiple circuit controlling switch, in combination, an insulating base, a plurality of sets of fixed contacts carried by said base, a plurality of oscillatable bridging contactors each adapted for movement into and out of engagement with one of said sets of contacts respectively, common actuating means for said contactors, said means comprising a reciprocating member adapted upon movement thereof from one extreme position to the other to effect disengagement of one of said contactors and subsequent engagement of another of said contactors, said member being also adapted upon movement thereof to an intermediate position to effect disengagement of all of said contactors, and spring means for effecting such movements of said contactors with a snap action.

1,781,711. SHELLAC COMPOSITION. RICHARD E. SUMNER, Plainfield, N. J., assignor, by mesne assignments, to The Calco Chemical Company, Inc., a Corporation of Delaware. Filed Apr. 5, 1928, Serial No. 267,802. Renewed Dec. 31, 1929. 4 Claims. (Cl. 106—1.5.)

1. A composition of matter for use in making phonograph records and for other purposes, comprising a filler, a shellac agglomerant by which the filler is bound together, and an azine base dye.

1,781,712. WOOD-PULP MATERIAL. JOSEPH H. WALLACE, Stamford, Conn., assignor to Pine Waste Products, Inc., New York, N. Y., a Corporation of Delaware. Filed Feb. 5, 1925. Serial No. 6,958. 6 Claims. (Cl. 92—7.)



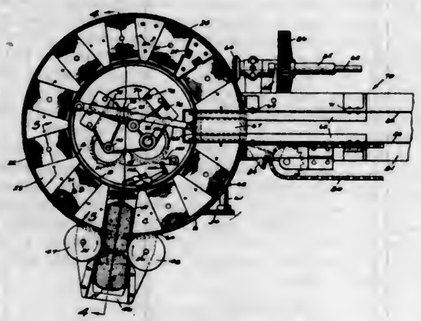
1. The herein described method of making pulp which comprises removing excess moisture from a mass of wood chips by treating the mass with steam in the presence of heated gases and then at once transferring said mass to a digester.

1,781,713. DEMOUNTABLE COVER FOR DUMPING BODIES. LEROY E. WILLIAMS, Edgerton, Wis., assignor to Highway Trailer Company, Edgerton, Wis., a Corporation of Wisconsin. Filed Dec. 23, 1927. Serial No. 242,021. 1 Claim. (Cl. 296—101.)



In combination with an upwardly open vehicle body, a removable cover comprising a plurality of sections disposed in pairs including a pair of sections adjacent each end of the body and one or more intermediate pairs independent of and unconnected with said end sections, the sections of each pair being detachably secured to opposite edges of the body respectively and sloping upwardly therefrom toward each other, the upper edges of said sections being provided with vertical flanges for mutual abutment and having inter-engaging features associated with said flanges opposing slippage of one flange vertically with respect to the other, whereby the covers are substantially self-sustaining and the intermediate sections require no auxiliary supports extending over the load-carrying space of the body.

1,781,714. BAG SHAKER AND FEEDER. HELMER ANDERSON, Minneapolis, Minn., assignor to General Mills, Inc., Minneapolis, Minn., a Corporation of Delaware. Filed Apr. 21, 1930. Serial No. 445,954. 21 Claims. (Cl. 259—91.)



1. In an apparatus of the class described, the combination of a rotatable member provided with a plurality of compartments, means for feeding a container into each compartment and simultaneously pressing the container walls inwardly to shape the body of the container, means for causing a vibratory movement to be imparted to the containers in said compartments to settle the material therein, and means for ejecting the containers from said compartments.

1,781,715. INSOLE AND METHOD OF MAKING SAME. SIDNEY R. BLAKELY, Jamaica Plain, Mass. Filed Feb. 14, 1929. Serial No. 339,811. 7 Claims. (Cl. 36—27.)

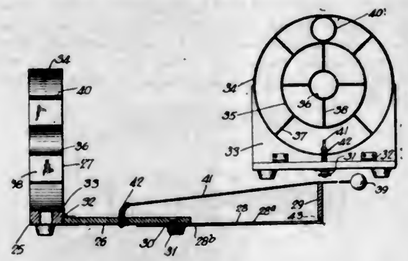


1. In an insole for use in the manufacture of boots and shoes, a layer of reinforcing material fixed on the heel portion thereof, said heel portion and said reinforcing layer having a cup formed therein before application to a last, and a separate layer of reinforcing material fixed thereto along the shank portion thereof, said shank portion and said reinforcing layer having an arch formed therein before application to a last.

1,781,716. PAPER-COATING COMPOSITION. DONALD B. BRADNER and CHARLES H. MILLIGAN, Hamilton, Ohio, assignors to The Champion Coated Paper Co., Hamilton, Ohio, a Corporation of Ohio. Filed Dec. 31, 1927. Serial No. 244,038. 22 Claims. (Cl. 134—20.)

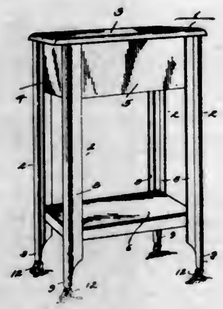
1. Process of making paper coating compositions which comprises admixing chlorinated protein adhesive and mineral pigment.

1,781,717. GAME AND AMUSEMENT DEVICE. MERRITT B. BRADT, Brooklyn, N. Y. Filed Dec. 21, 1928. Serial No. 327,518. 6 Claims. (Cl. 273—98.)



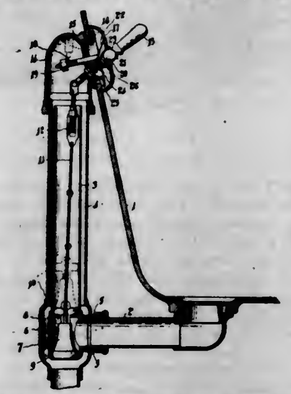
1. A game of the class described comprising a table member, an upstanding body adjacent one end of the table member having a passage extending therethrough, a manually controlled game piece involving a resilient extensible member, one end of which is coupled directly with said table member at a point forwardly of said body and adapted to be advanced for passage through the passage in said body and a wall member adjustably supported in connection with the table member and extending upwardly therefrom and adapted to be extended forwardly with respect thereto and to said body and in connection with which the movable game piece operates.

1,781,718. SHEET-METAL FURNITURE. ISAIAH CONRAD, Columbus, Ohio, assignor to F. O. Schoedinger, Columbus, Ohio. Filed Aug. 8, 1925. Serial No. 49,099. 1 Claim. (Cl. 45—31.)



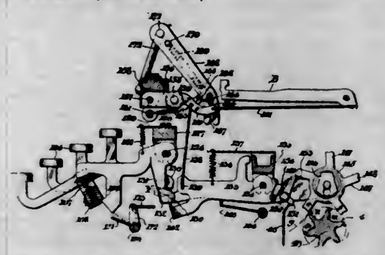
An article of furniture of the character described, formed of metal, including a plurality of vertically extending corner members each formed to provide a tubular body having a longitudinally extending opening in one side thereof and a flat longitudinally extending angularly disposed integral wing extending outwardly from each vertical edge of the opening and at right angles one to the other, a top supported by the corner members, the lower ends of the tubular bodies being formed and adapted to receive the shanks of casters, and a horizontally extending member supported by and between the corner members, the wings of the corner members extending parallel with and engaging the marginal edges of the horizontally supported member for a substantial distance and the corners of the supported member extending through the longitudinally extending openings of the corner members to be received within the tubular body portions thereof, the vertical edges of the openings engaging the marginal edges of the horizontally extending member.

1,781,719. WASTE-PIPE FITTING. WILLIAM HENRY DARLING, London, Ontario, Canada. Filed Sept. 27, 1929. Serial No. 395,614. 2 Claims. (Cl. 4—203.)



1. Improvements in waste pipe fittings including a down-flow waste pipe; a valve controlling discharge through the same; means for actuating the valve extending up through the waste pipe; a closure for the upper end of the waste pipe having a lateral opening; a cap for said opening detachably secured in place and having an opening therein; an operating lever for the valve actuating means adapted to be projected through said opening from the outside, the wall of said opening and the said lever being formed with engaging parts forming a bearing on which said lever may rock up and down; a cam face on the inner side of the cap; and spring actuated means on the inner end of the lever engaging the cam face, the latter being figured to tend to retain the lever, by its engagement with the sliding member, in either of at least two positions.

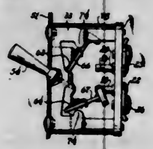
1,781,720. TYPEWRITING MACHINE. GUSTAVE O. DEGENER, New York, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 28, 1927. Serial No. 243,063. 24 Claims. (Cl. 197—17.)



7. In a power operated typewriting machine, a type action, a power lever connected to the same, a power

opposite side bars and transverse end bars, of a hinged tongue extending longitudinally along and over the center bar and carried by the rear transverse bar, and a swinging bail carried by the front transverse bar of the base, adapted to swing inwardly over the free end of the tongue, said tongue being provided with inwardly projecting flanges along its opposite edges, which project over but lie in spaced relation to the center bar.

1,781,710. ELECTRIC SWITCH. WILLIAM C. STEVENS and GEORGE J. MEUER, Milwaukee, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a Corporation of Delaware. Filed July 25, 1929. Serial No. 380,905. 12 Claims. (Cl. 200—6.)

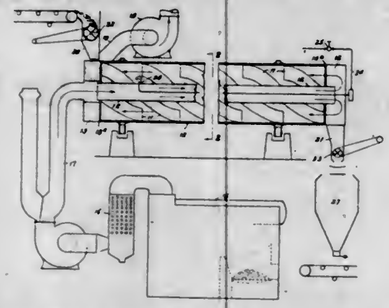


1. In a multiple circuit controlling switch, in combination, an insulating base, a plurality of sets of fixed contacts carried by said base, a plurality of oscillatable bridging contactors each adapted for movement into and out of engagement with one of said sets of contacts respectively, common actuating means for said contactors, said means comprising a reciprocating member adapted upon movement thereof from one extreme position to the other to effect disengagement of one of said contactors and subsequent engagement of another of said contactors, said member being also adapted upon movement thereof to an intermediate position to effect disengagement of all of said contactors, and spring means for effecting such movements of said contactors with a snap action.

1,781,711. SHELLAC COMPOSITION. RICHARD E. SUMNER, Plainfield, N. J., assignor, by mesne assignments, to The Calco Chemical Company, Inc., a Corporation of Delaware. Filed Apr. 5, 1928, Serial No. 267,802. Renewed Dec. 31, 1929. 4 Claims. (Cl. 106—1.5.)

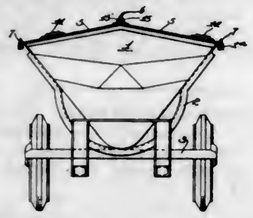
1. A composition of matter for use in making phonograph records and for other purposes, comprising a filler, a shellac agglomerant by which the filler is bound together, and an azine base dye.

1,781,712. WOOD-PULP MATERIAL. JOSEPH H. WALLACE, Stamford, Conn., assignor to Pine Waste Products, Inc., New York, N. Y., a Corporation of Delaware. Filed Feb. 5, 1925. Serial No. 6,958. 6 Claims. (Cl. 92—7.)



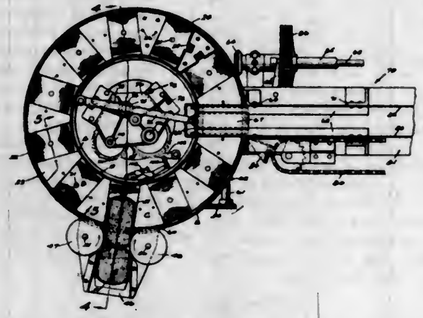
1. The herein described method of making pulp which comprises removing excess moisture from a mass of wood chips by treating the mass with steam in the presence of heated gases and then at once transferring said mass to a digester.

1,781,713. DEMOUNTABLE COVER FOR DUMPING BODIES. LEROY E. WILLIAMS, Edgerton, Wis., assignor to Highway Trailer Company, Edgerton, Wis., a Corporation of Wisconsin. Filed Dec. 23, 1927. Serial No. 242,021. 1 Claim. (Cl. 296—101.)



In combination with an upwardly open vehicle body, a removable cover comprising a plurality of sections disposed in pairs including a pair of sections adjacent each end of the body and one or more intermediate pairs independent of and unconnected with said end sections, the sections of each pair being detachably secured to opposite edges of the body respectively and sloping upwardly therefrom toward each other, the upper edges of said sections being provided with vertical flanges for mutual abutment and having inter-engaging features associated with said flanges opposing slippage of one flange vertically with respect to the other, whereby the covers are substantially self-sustaining and the intermediate sections require no auxiliary supports extending over the load-carrying space of the body.

1,781,714. BAG SHAKER AND FEEDER. HELMER ANDERSON, Minneapolis, Minn., assignor to General Mills, Inc., Minneapolis, Minn., a Corporation of Delaware. Filed Apr. 21, 1930. Serial No. 445,954. 21 Claims. (Cl. 259—91.)



1. In an apparatus of the class described, the combination of a rotatable member provided with a plurality of compartments, means for feeding a container into each compartment and simultaneously pressing the container walls inwardly to shape the body of the container, means for causing a vibratory movement to be imparted to the containers in said compartments to settle the material therein, and means for ejecting the containers from said compartments.

1,781,715. INSOLE AND METHOD OF MAKING SAME. SIDNEY R. BLAKELY, Jamaica Plain, Mass. Filed Feb. 14, 1929. Serial No. 339,811. 7 Claims. (Cl. 36—27.)

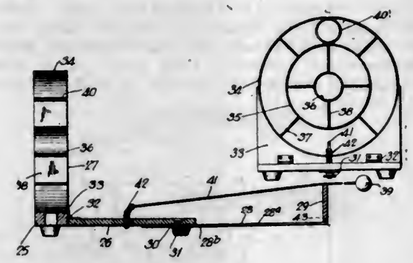


1. In an insole for use in the manufacture of boots and shoes, a layer of reinforcing material fixed on the heel portion thereof, said heel portion and said reinforcing layer having a cup formed therein before application to a last, and a separate layer of reinforcing material fixed thereto along the shank portion thereof, said shank portion and said reinforcing layer having an arch formed therein before application to a last.

1,781,716. PAPER-COATING COMPOSITION. DONALD B. BRADNER and CHARLES H. MILLIGAN, Hamilton, Ohio, assignors to The Champion Coated Paper Co., Hamilton, Ohio, a Corporation of Ohio. Filed Dec. 31, 1927. Serial No. 244,038. 22 Claims. (Cl. 134—20.)

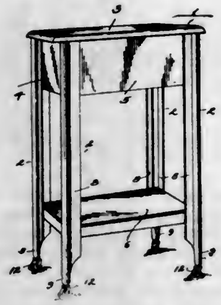
1. Process of making paper coating compositions which comprises admixing chlorinated protein adhesive and mineral pigment.

1,781,717. GAME AND AMUSEMENT DEVICE. MERRITT B. BRADT, Brooklyn, N. Y. Filed Dec. 21, 1928. Serial No. 327,518. 6 Claims. (Cl. 273—98.)



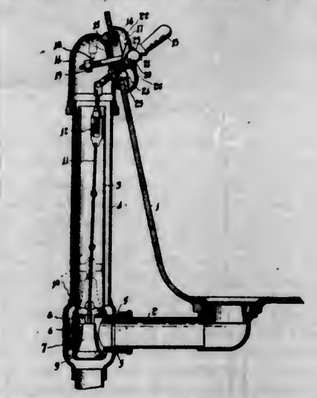
1. A game of the class described comprising a table member, an upstanding body adjacent one end of the table member having a passage extending therethrough, a manually controlled game piece involving a resilient extensible member, one end of which is coupled directly with said table member at a point forwardly of said body and adapted to be advanced for passage through the passage in said body and a wall member adjustably supported in connection with the table member and extending upwardly therefrom and adapted to be extended forwardly with respect thereto and to said body and in connection with which the movable game piece operates.

1,781,718. SHEET-METAL FURNITURE. ISAIAH CONRAD, Columbus, Ohio, assignor to F. O. Schoedinger, Columbus, Ohio. Filed Aug. 8, 1925. Serial No. 49,099. 1 Claim. (Cl. 45—31.)



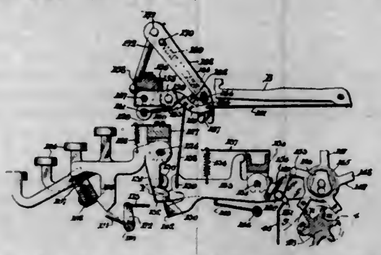
An article of furniture of the character described, formed of metal, including a plurality of vertically extending corner members each formed to provide a tubular body having a longitudinally extending opening in one side thereof and a flat longitudinally extending angularly disposed integral wing extending outwardly from each vertical edge of the opening and at right angles one to the other, a top supported by the corner members, the lower ends of the tubular bodies being formed and adapted to receive the shanks of casters, and a horizontally extending member supported by and between the corner members, the wings of the corner members extending parallel with and engaging the marginal edges of the horizontally supported member for a substantial distance and the corners of the supported member extending through the longitudinally extending openings of the corner members to be received within the tubular body portions thereof, the vertical edges of the openings engaging the marginal edges of the horizontally extending member.

1,781,719. WASTE-PIPE FITTING. WILLIAM HENRY DARLING, London, Ontario, Canada. Filed Sept. 27, 1929. Serial No. 395,614. 2 Claims. (Cl. 4—203.)



1. Improvements in waste pipe fittings including a down-flow waste pipe; a valve controlling discharge through the same; means for actuating the valve extending up through the waste pipe; a closure for the upper end of the waste pipe having a lateral opening; a cap for said opening detachably secured in place and having an opening therein; an operating lever for the valve actuating means adapted to be projected through said opening from the outside, the wall of said opening and the said lever being formed with engaging parts forming a bearing on which said lever may rock up and down; a cam face on the inner side of the cap; and spring actuated means on the inner end of the lever engaging the cam face, the latter being figured to tend to retain the lever, by its engagement with the sliding member, in either of at least two positions.

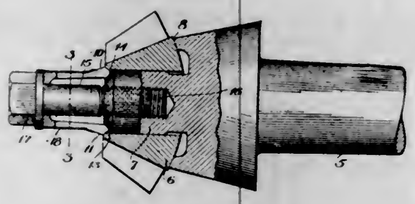
1,781,720. TYPEWRITING MACHINE. GUSTAVE O. DEGENER, New York, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 28, 1927. Serial No. 243,063. 24 Claims. (Cl. 197—17.)



7. In a power operated typewriting machine, a type action, a power lever connected to the same, a power

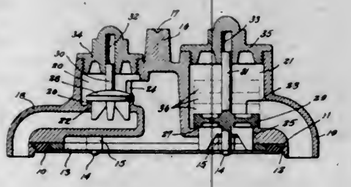
driven rotating element having projections thereon, a star wheel pivoted to the power lever and frictionally held against accidental rotation, said star wheel having fingers normally held out of the path of said projections, means for moving the fingers of the star wheel into the path of said projections to actuate the lever and thereby the type action, and means for preventing overthrow of the star wheel.

1,781,721. CHUCK. SCHUYLER H. EARL, Rochester, N. Y., assignor to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed June 30, 1924. Serial No. 723,287. 5 Claims. (Cl. 287—53.)



3. A chuck for gears comprising a spindle constructed to enter the bore of a gear to support the same and having means thereon against which the inner end of the gear seats, a collapsible bushing, said bushing and spindle having co-operating parts adapted to expand the bushing on axial movement thereof in one direction to clamp a gear on the spindle, and means for moving the bushing axially of the spindle, the maximum diameter of the means for moving the bushing and of the bushing, when collapsed, being less than the minimum diameter of the bore of the gear whereby the gear may be removed from said spindle without removal of the bushing or the means for moving the same.

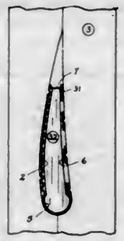
1,781,722. THIEF-HOLE COVER. CONRAD EHRET, Oklahoma City, Okla. Filed Oct. 28, 1929. Serial No. 403,028. 7 Claims. (Cl. 220—85.)



2. A thief hole cover for tanks comprising a base adapted to be secured upon a tank about an opening therein, a cover for the upper end of said base and formed with ports, valve houses each independent of the other and each having an inner opening and an outer opening, conduits leading from the outer openings of said valve houses and having downturned outer ends, and check valves in said valve houses, the valve in one house opening inwardly and the valve in the other house opening outwardly.

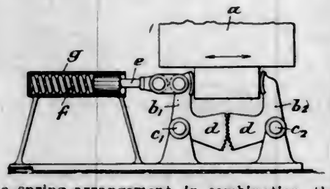
1,781,723. METHOD OF SHAPING HOLLOW BODIES. HAROLD E. FOX, Pittsburgh, Pa., assignor to Pittsburgh Metal Airplane Company, a Corporation of Pennsylvania. Filed Jan. 28, 1930. Serial No. 423,949. 5 Claims. (Cl. 29—148.2.)

5. The method herein described of building a hollow sheet-metal, interiorly-trussed airplane wing which consists in arranging and securing a plurality of cut-out templets with the edges of their cut-out spaces in coincidence with the surfaces to which the sheet metal is to



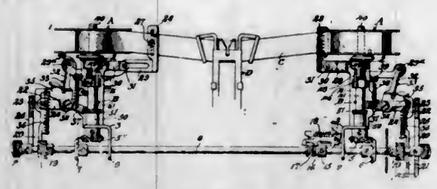
be shaped, shaping sheet metal to a shell over forming members and within the templets, securing truss members within the so shaped shell, and applying a covering to the shell.

1,781,724. SPRING ARRANGEMENT. PETER FÜSGEN and WALTER KOST, Dusseldorf, Germany, assignors to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Filed Feb. 1, 1929, Serial No. 336,842, and in Germany June 16, 1927. 5 Claims. (Cl. 267—1.)



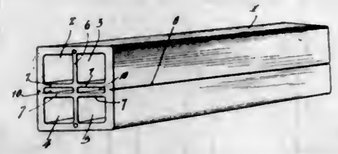
1. In a spring arrangement, in combination, thrust elements engaging a body to be held resiliently and connected with each other so as to positively move together in opposite directions, a rod pivotally connected to one of said thrust elements, a sleeve, and a spring arranged in said sleeve and bearing at one end against the bottom of said sleeve and at the other end against said rod, said spring always tending to bring the said thrust elements in a position in which they engage said body.

1,781,725. TYPEWRITING MACHINE. GEORGE F. HANDLEY, Glendale, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Original application filed Dec. 15, 1928, Serial No. 326,318. Divided and this application filed Nov. 19, 1929. Serial No. 408,248. 11 Claims. (Cl. 197—165.)



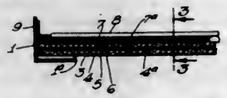
1. In a typewriter or the like, a ribbon feeding mechanism including a ribbon spool and a ribbon wound thereon, a ribbon reversing mechanism, a movable ribbon-controlled means for operating said reversing mechanism, means for returning the ribbon-controlled means to its initial position immediately following the operation of the reversing mechanism whereby a slack in the ribbon is formed between the spool and the ribbon-controlled means, and a spring connected to the spool and placed under tension when the ribbon-controlled means is actuated by the ribbon and effective to rotate the spool to take up the ribbon slack simultaneously with the return movement of the ribbon-controlled means to its initial position.

1,781,726. DISTRIBUTING CONDUIT. HOWARD W. JEWELL, Los Angeles, Calif. Filed Oct. 10, 1928. Serial No. 311,618. 3 Claims. (Cl. 247—32.)



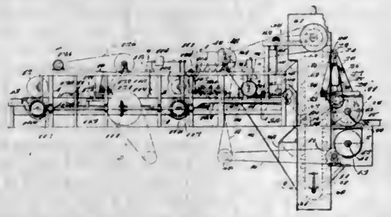
1. A multiple duct conduit including exterior walls and a plurality of interior webs dividing said conduit into ducts, one of said webs being substantially twice the thickness of the exterior walls, said web being cored to facilitate separation of the conduit through the center of said web, the remaining webs being of a thickness not exceeding the thickness of the exterior walls.

1,781,727. ADVERTISING SIGN AND THE LIKE. EMERALD W. KNECHTEL, Bell, Calif. Filed Dec. 22, 1927. Serial No. 241,956. 19 Claims. (Cl. 40—133.)



1. In a means of the class described, a translucent light transmitting medium, an opaque shield having open letters therein positioned at one side of the medium, and another shield having corresponding letters positioned at the opposite side of the medium, the letters of the latter shield being wider than those of the first shield and positioned in front of the same.

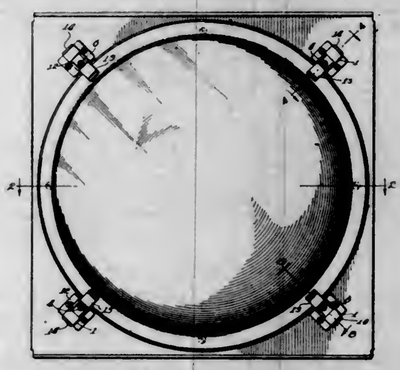
1,781,728. METHOD AND APPARATUS FOR PREPARING WET MIXTURES. JOHN C. MACILDOWIE, Nashua, N. H., assignor to Asbestos Wood & Shingle Co., Nashua, N. H., a Corporation of New Hampshire. Filed Oct. 29, 1927. Serial No. 229,771. 31 Claims. (Cl. 18—48.)



14. Method of producing a uniform mixture of discrete, semi-wet particles which comprises subjecting a supply of the components of the mixture to a loose shearing action, depositing the same substantially without relative movement in the form of a sheet, removing the upper portion of the deposit to the desired contour, and thereafter consolidating the mixture.

1,781,729. LENS-HOLDING LOCK FOR REFLECTORS. ROSCOE E. MAJOR, Chicago, Ill., assignor to Major Equipment Co., Inc., a Corporation of Illinois. Filed Feb. 6, 1930. Serial No. 426,298. 3 Claims. (Cl. 292—114.)

1. Lens latching means comprising a fixed frame of two parts bent and secured together to form a longitudinally extending guideway for a slidable latching clip, a latching clip movably mounted in the guideway and provided with a lug projecting to one side of the guideway, a spring bearing between said lug and a portion of said frame structure at one side of said guideway, said frame structure being formed to provide a fulcrum for the clip around which the clip may move perpendicularly to its longitudinal movement, said spring and fulcrum forming

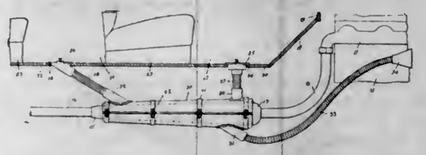


a couple, and means preventing the perpendicular movement of the clip except at one point of its longitudinal stroke.

1,781,730. COMPOSITION OF MATTER. LEIELLA MORRIS, Dallas, Tex. Filed Mar. 22, 1929. Serial No. 349,276. 2 Claims. (Cl. 134—18.)

1. A composition of matter for preserving knitted textile fibers comprising two parts alum with one part each of magnesium sulphate and sodium chloride, the said parts being mixed with warm water.

1,781,731. AUTOMOBILE HEATER. QUINTIN G. NOBLITT, Indianapolis, Ind., assignor to Indianapolis Pump & Tube Company, Indianapolis, Ind., a Corporation. Filed Oct. 17, 1927. Serial No. 226,550. 3 Claims. (Cl. 257—241.)

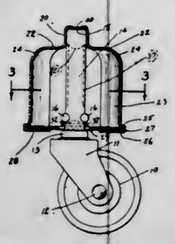


1. In combination with a conical muffler, a heater casing surrounding the same, an air inlet for said casing, and an air outlet at each end of said casing, said casing being shaped with a smaller diameter adjacent the smaller end of said muffler and having a substantially longitudinal partition in the end thereof adjacent the larger end of said muffler for reducing the cross sectional area of the path of flow to the outlet at that end whereby delivery of air at a substantially equal temperature from both of said outlets is secured.

1,781,732. DETACHABLE TOP-BEARING CASTER AND SOCKET. WILLIAM H. NOELTING, Evansville, Ind., assignor to Faultless Caster Company, Evansville, Ind., a Corporation. Filed Apr. 15, 1927. Serial No. 183,987. 3 Claims. (Cl. 16—139.)

1. A detachable caster and socket combination comprising a caster stem having a plurality of laterally extending rigid enlargements near the bottom thereof, said enlargements being arranged in spaced relation to each other and lying in substantially the same plane transverse to the stem axis, a centrally apertured plate for receiving said stem and including a plurality of recess extensions com-

municating therewith, each of slightly larger dimension than and of similar outline to the stem enlargement and arranged in similarly spaced relation for the simultaneous passage of the enlargements therethrough for stem mounting and detachment, yielding means positioned adjacent all of the recesses and normally in registration therewith

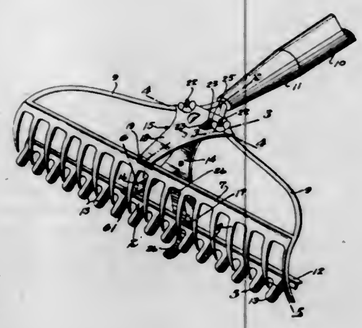


for engaging the enlargements for retaining said stem in the plate when the stem is not under load, said yielding means being movable out of registration with the recesses upon forcible entry or removal of the stem when the enlargements thereof are in registration with said recess extensions.

1,781,733. CYCLIC PROCESS OF FIBER LIBERATION. GEORGE A. RICHTER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Mar. 9, 1929. Serial No. 345,868. 6 Claims. (Cl. 92—9.)

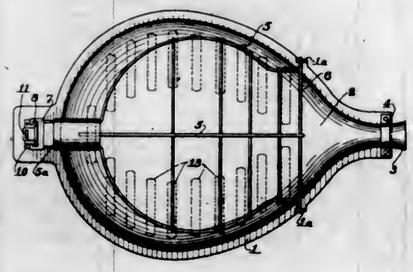
1. A process which comprises cooking raw cellulosic material in a solution of sodium carbonate to dissolve a portion of its cementitious content, and then cooking in a solution of sodium sulphide to effect fiber liberation.

1,781,734. HAND-RAKE-CLEANING ATTACHMENT. ROBERT G. ROTH, Minneapolis, Minn. Filed Apr. 9, 1930. Serial No. 442,946. 1 Claim. (Cl. 55—146.)



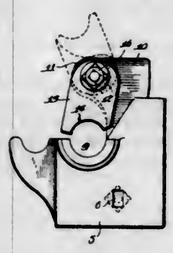
A device of the class described comprising a clamp including a plate adapted to rest on the head and arms of a rake and having short depending hooks engageable with said head and arms to hold the plate against bodily shifting movement thereon and clips for securing the plate to said arms, an arm hinged to the clamp for vertical swinging movement, a body carried by the arm and having stripper fingers arranged to project between the teeth of the rake, and a shoe on the arm arranged to slide on the ground during raking action and hold the body raised.

1,781,735. APPARATUS FOR MEASURING THE VITAL CAPACITY OF THE LUNGS. ROY WESLEY SCOTT, Cleveland, Ohio. Filed June 10, 1927. Serial No. 197,855. 6 Claims. (Cl. 73—112.)



5. In apparatus of the character described, the combination with a support, of a normally flat bag of flexible material, having a blow opening at one end and increasing in width from the blow end toward the opposite end, and means for indicating degree of inflation, including a flat member pivotally supported near the end of the bag having the blow hole and overlying the bag, a member pivotally supported near the opposite end of the bag and a slidable connection between the said members.

1,781,736. WARP-BEAM LOCK. CLAUDE C. SHAW, Camden, S. C. Filed Jan. 11, 1928. Serial No. 245,877. 2 Claims. (Cl. 308—24.)



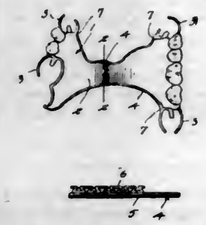
1. In a device of the class set forth, a bracket adapted for attachment to the loom-frame having a shaft-receiving semibearing in its upper edge and also an upstanding standard at its rear edge, behind said bearing, and a locking-bar clamped to said standard by means of a bolt extending through said standard and a slot in said locking-bar, said slot inclining downwardly and forwardly, said locking-bar being provided with a semibearing at its lower edge adapted to fit down on the top side of the shaft, said locking-bar being also provided with a lug extending laterally under the projecting end of said standard.

1,781,737. PIN STEM. ROGERS T. STAFFORD, East Providence, R. I., assignor to B. A. Ballou & Co., Inc., Providence, R. I., a Corporation of Rhode Island. Filed Mar. 1, 1930. Serial No. 432,436. 8 Claims. (Cl. 24—155.)



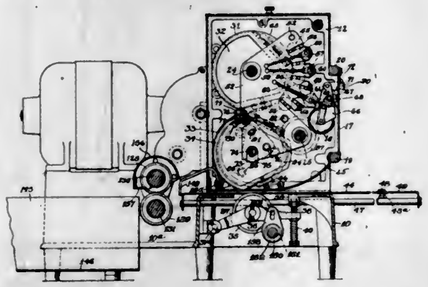
1. A pin stem having a shank portion and a head portion, said head portion having pivot means and connector means additional thereto.

1,781,738. REENFORCED DENTURE. JOSEPH PHILIAS TETREAULT, Providence, R. I. Filed Feb. 12, 1929. Serial No. 339,481. 7 Claims. (Cl. 32—4.)



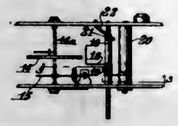
1. A reenforced denture, comprising a body of composition material, a resilient wire outlining certain edges of the body, and means forming a part of the wire designed to be imbedded in the material to bond the wire thereto.

1,781,739. APPARATUS FOR PRINTING NEGOTIABLE PAPER. CHARLES G. TIEFEL and WALTER B. PAYNE, Rochester, N. Y., assignors to The Todd Company, Rochester, N. Y., a Corporation of New York. Filed Oct. 18, 1926. Serial No. 142,194. 53 Claims. (Cl. 101—218.)



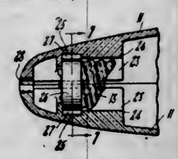
1. In a printing machine of the class described, the combination of a frame, plate and blanket rolls rotatably mounted one adjacent another upon the frame, means for driving said rolls including a clutch mechanism arranged for automatic release following each printing operation, means for adjusting one roll relative to another, and a platen positioned to cooperate with the blanket roll.

1,781,740. MECHANISM FOR STARTING CLOCKS. WILLIAM J. VANDERPOOL, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a Corporation of New York. Filed Apr. 13, 1928. Serial No. 269,702. 2 Claims. (Cl. 58—1.)



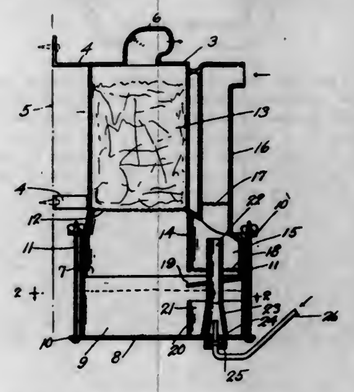
1. In apparatus of the character described, the combination with a clock having a balance wheel, of a shaft disposed on the clock parallel to the axis of the balance wheel, said shaft being mounted for both rotary and axial movement, a crank arm carried by the shaft, adapted to strike against the balance wheel when the shaft is rotated, a helical spring surrounding the shaft, having one end connected thereto, means in close proximity to the shaft for anchoring the other end of the spring and means on the shaft and on the clock for causing the shaft to undergo rotary movement when it is moved axially.

1,781,741. HEATING PAD. HANS H. WANDERS, Boston, Mass. Filed Nov. 15, 1928. Serial No. 319,461. 2 Claims. (Cl. 219—45.)



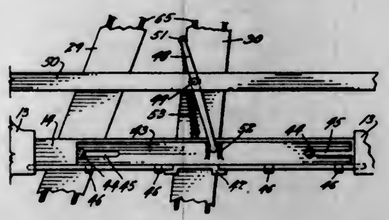
1. A device of the class described comprising a two-part shell of moldable electrical insulating material, an electric light socket therein, each part of said shell having portions projecting inwardly and cooperating to grip said socket when the shell is assembled, and means for securing said parts together.

1,781,742. AUTOMOTIVE AIR-CLEANSING DEVICE. HERMAN B. ANGLEMEYER, Calexico, Calif., assignor of one-tenth to J. A. Allard, Jr., one-fourth to A. M. Lichty, one-fourth to B. Chaffey Shepherd, one-eighth to M. W. Zander, and one-sixteenth to Ira H. Van Cleave, Pomona, Calif. Filed Feb. 12, 1929. Serial No. 339,374. 7 Claims. (Cl. 183—11.)



7. In an air cleansing device of the class described, a casing provided at its top with a cleansed air outlet and provided on one side with an atmospheric air intake pipe, an oil screen chamber at the lower end of said pipe, an oil trough in said casing beneath said chamber, an induction oil elevating tube in said trough having its upper end extending into said chamber and a motive gas pipe connected with said tube.

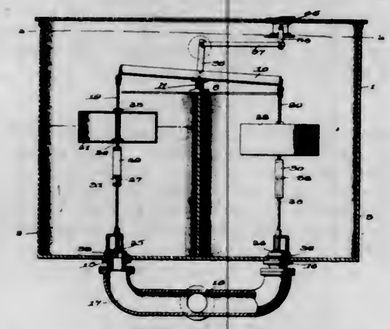
1,781,743. PLANT THINNER. ERNST J. ANTONI, Denver, Colo. Filed July 1, 1929. Serial No. 375,019. 8 Claims. (Cl. 97—38.)



1. A plant thinning machine comprising: a wheel supported main frame; arms suspended from said main

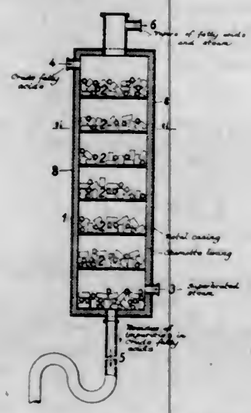
frame and arranged to swing laterally of the line of travel thereof for movement into and out of engagement with a plant row; means for swinging said arms; positively driven rake wheels carried on the lower extremities of said arms; and means operated by swinging movement of each of said arms into cultivating position for forcing and maintaining the respective arms forward of their respective planes of movement.

1,781,744. FLUID METER. CHARLES H. BERGQUIST and RICHARD BATTLE, Okmulgee, Okla. Filed July 9, 1926. Serial No. 121,415. 3 Claims. (Cl. 73—28.)



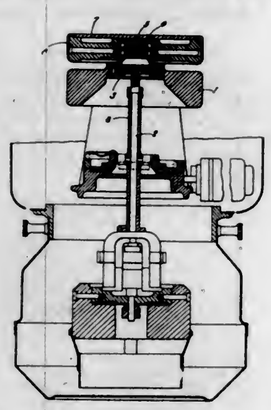
1. A gravity meter for liquids including pivotally mounted oscillatory means, a nozzle discharging liquid into said means adjacent its pivotal axis, said nozzle extending in a horizontal direction and being flared outwardly for distributing liquid at a distance on both sides of said pivotal axis to increase the inertia of the liquid in its descent toward the lower end of said means, vessels into which said receiving means alternately discharges, means responsive to a definite depth of liquid in said vessel for oscillating said first mentioned means, discharge valves for said vessels, and means for alternately actuating said valves, said last mentioned means moving independently of said valve during the initial part of each oscillatory movement, whereby to gather inertia and to deliver a hammer blow to said valves for opening the latter.

1,781,745. APPARATUS FOR DISTILLING FATTY ACIDS. HERMANN BOLLMANN, Hamburg, Germany. Filed Dec. 16, 1925, Serial No. 75,744, and in Germany Feb. 2, 1925. 1 Claim. (Cl. 202—153.)



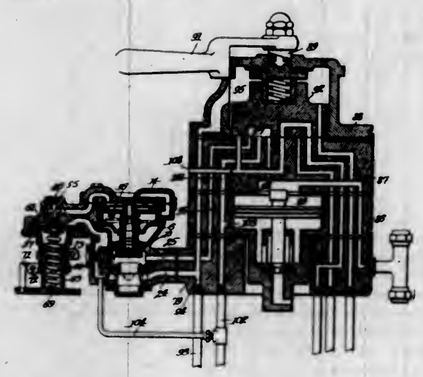
In an apparatus for distilling fatty acids, the combination of a column comprising a chamber, partitions spaced at intervals across said chamber and defining a plurality of compartments, said partitions having such construction as to prevent the substantial accumulation of liquid thereon and having free openings near the center of each of the same for permitting the passage of vapor, the remaining parts of said partition being impervious to the passage of vapor, means for introducing fatty acid near the top of said column, means for withdrawing vapors from said column, and means for introducing superheated steam near the foot of said column, said openings being unprovided with hoods.

1,781,746. GYROSCOPIC INDICATING INSTRUMENT. SIDNEY GEORGE BROWN, North Acton, England. Filed Nov. 21, 1929, Serial No. 408,871, and in Great Britain Nov. 29, 1928. 2 Claims. (Cl. 74—78.)



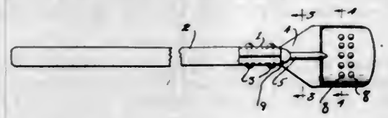
1. A gyroscopic indicating instrument comprising a series of gyro wheels, a universal coupling between and rotatably connecting each adjacent pair of said wheels, a driving spindle, a universal coupling rotatably connecting said driving spindle with the first of said series of gyro wheels and an indicating device fitted to the last of said gyro wheels.

1,781,747. FEED VALVE FOR AIR BRAKES. CHARLES A. CAMPBELL, Watertown, N. Y., assignor to The New York Air Brake Company, a Corporation of New Jersey. Filed Sept. 24, 1927. Serial No. 221,810. 27 Claims. (Cl. 303—59.)



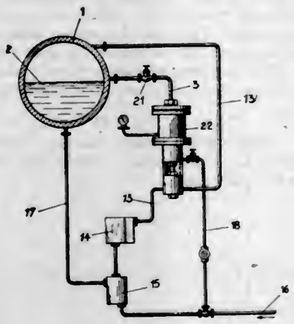
1. The combination of a main reservoir pipe; a brake pipe; an engineer's brake valve adjustable to perform the ordinary release and running functions and including a feed valve discharge passage and a warning port which are connected in release position, and a brake pipe port which is connected with the feed valve discharge port in running position; a feed valve having a regulating diaphragm which controls its action, said valve being connected with the engineer's brake valve in such manner as to feed air with reduction of pressure, from the main reservoir pipe to said feed valve discharge port; a direct pressure transmitting connection between the brake pipe and said diaphragm; and a bleed connection from the last named connection to said feed valve discharge passage.

1,781,748. BOOT HOOK. FRANK E. CHAPPER and WILLIAM R. MCGEE, Detroit, Mich. Filed Mar. 25, 1929. Serial No. 349,575. 6 Claims. (Cl. 132—7.)



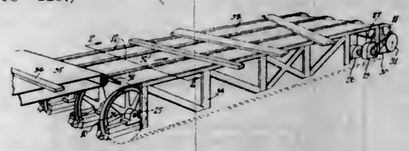
6. A boot hook comprising a handle, a sheet metal member connected with and extending beyond the end of the handle and having a terminal arcuate portion approximately parallel with the handle and an angularly disposed portion providing a shoulder between the terminal arcuate portion and the angular portion to engage the upper edge of a rubber or other footwear to limit the extent to which the terminal portion may be inserted therein and positioning the handle rearwardly of the rear end thereof, said arcuate portion being provided with gripping portions to engage the rubber or other article whereby as the foot is being inserted therein the operator, by pulling on the handle, may draw the shoe or rubber to final position over the heel.

1,781,749. APPARATUS FOR MAINTAINING A PREDETERMINED WATER LEVEL IN STEAM BOILERS. GEORGE HEINRICH DAVIN, Cassel, Germany, assignor to Schmidt'sche Heissdampf G. m. b. H., Cassel-Wilhelmshohe, Germany, a Corporation of Germany. Filed May 18, 1928, Serial No. 278,834, and in Germany July 11, 1927. 8 Claims. (Cl. 122—451.)



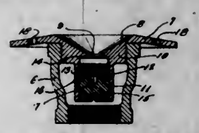
1. Apparatus for maintaining a predetermined water level in a steam boiler comprising a drum containing water and steam, a feed pump for maintaining a water level in the drum, a steam supply line to said feed pump, a throttling device in said supply line, and means inserted between the drum and the feed line of the pump for controlling said throttling device, said means comprising a chamber, a laybrinth throttle having passages of considerable length at one end of said chamber, and a pressure operated plunger communicating with the chamber adjacent said throttle and connected thereto.

1,781,750. CONVEYER. HAROLD C. DODGE, Portland, and WALTER H. BEANE, Klamath Falls, Oreg. Filed June 27, 1928. Serial No. 288,662. 4 Claims. (Cl. 198—129.)



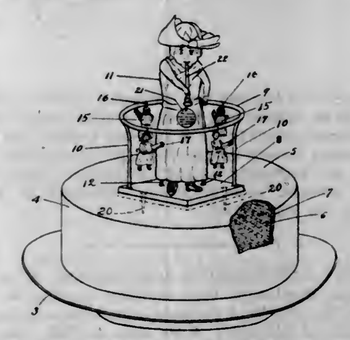
1. The combination of a plurality of transfer mechanisms each having a driven wheel, a drive wheel, a conveyer passing around said wheels, said conveyer having rubber lumber-engaging faces, said conveyer and wheels having tongue and groove connections between their contacting surfaces, means for supporting the upper run of each conveyer belt between its driven and driving wheels consisting of a channel-shaped support in which said belt can lie, and a sloping guide between the lowermost portion of the guide in which said belt lies and the uppermost portion of the next adjacent guide.

1,781,751. IRRIGATING APPARATUS. HOWARD H. ENELL, Cleveland Heights, Ohio. Filed May 16, 1927. Serial No. 191,818. 2 Claims. (Cl. 299—60.)



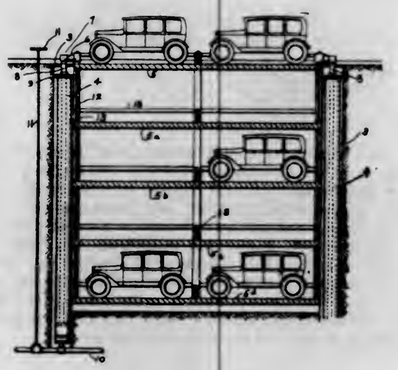
1. A spray nozzle for lawn sprinkler systems, comprising a body portion threaded for connection to a piping system and provided with a cylindrical skirt member provided with tangentially disposed slots opening through its lower edge and extending longitudinally along the skirt, said skirt being internally threaded and enclosing an inner chamber, the body portion at the upper end of the skirt being provided with a cross wall having an outer conical depression flaring upwardly from a central through orifice smaller in diameter than said chamber and communicating therewith, and an imperforate plug threaded into the threads of said skirt and adapted for adjustment along the same in said chamber for more or less closing said slots therein.

1,781,752. MESSAGE HOLDER. ANNA M. FISHER, Los Angeles, Calif. Filed Sept. 16, 1929. Serial No. 393,107. 3 Claims. (Cl. 41—10.)



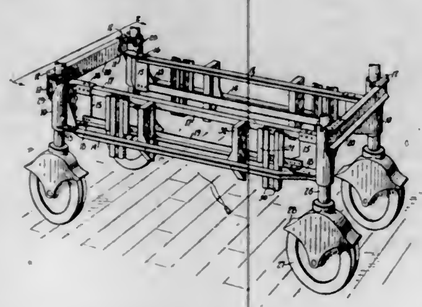
1. In a cake ornament support, a railing, means to support said railing upon a cake in a spaced relation to the top surface thereof, a master object within said railing, and subordinate related objects supported by said railing.

1,781,753. AUTOMOBILE PARKING SYSTEM. BERNARD M. FLANNERY, Seattle, Wash. Filed Sept. 16, 1929. Serial No. 393,046. 1 Claim. (Cl. 214—16.1.)



An automobile housing device comprising an elevator having a series of platforms at different horizontal levels, said elevator being adapted to be lowered into a pit adjacent a curbstone, cylinders at each corner of the elevator, pistons operating in said cylinders, piston rods extending the length of the cylinder and secured to the elevator at each upper corner, and means for operating the pistons to raise and lower the elevator.

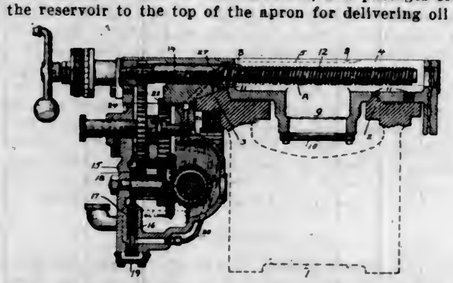
1,781,754. FRAME FOR TRAVERSING HOISTS. GUSTAV A. GRAB, Portland, Oreg. Filed Apr. 6, 1927. Serial No. 181,456. 22 Claims. (Cl. 280—61.)



1. A spindle housing for traversing hoist frames consisting of an upright cast tubular member having an angle plate formed along the top of one side thereof, and having a projection formed on the opposite side thereof having a pair of vertically spaced, horizontal bolting faces formed thereon, said projection extending at a right angle to the angle plate.

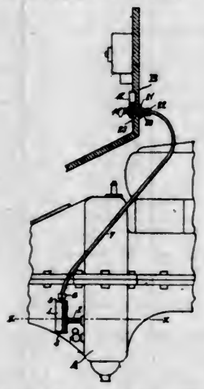
1,781,755. LATHE-OILING MECHANISM. WILLIAM F. GROENE, Cincinnati, Ohio, assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a Corporation of Delaware. Filed June 4, 1928. Serial No. 282,672. 6 Claims. (Cl. 184—5.)

5. An oiling system for lathes comprising an oil pump in the apron, channels in the slide adjacent the cross slideways to which oil is delivered by the pump, passages therefrom to the cross slideways, passages therefrom delivering oil to a reservoir located in the slide, and passages from the reservoir to the top of the apron for delivering oil by



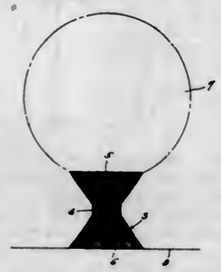
gravity from the reservoir to the interior of the apron and passages communicating with the delivery of the said pump, extending to the shaft bearings in the said apron.

1,781,756. OIL GAUGE. THOMAS A. HODGES, Tulare, Calif., and HENRY E. ELROD, Dallas, Tex. Filed Dec. 5, 1925. Serial No. 73,429. 5 Claims. (Cl. 73—54.)



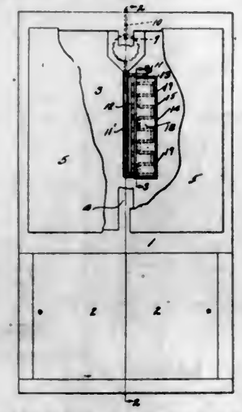
1. In combination with a liquid reservoir, a cylinder, the upper end of said cylinder being above the intended maximum level of the liquid in the reservoir, connecting means between said reservoir and said cylinder whereby the liquid level in said cylinder is maintained on a par with that in said reservoir, an indicating chamber having a transparent wall, a conduit connecting said cylinder to said indicating chamber, a piston in said cylinder, and means for actuating said piston to force the liquid from said cylinder into said conduit and said indicating chamber.

1,781,757. GOLF TEE. ALBERT DAWSON HOLDEN, Texon, Tex. Filed Mar. 26, 1930. Serial No. 439,163. 6 Claims. (Cl. 273—33.)



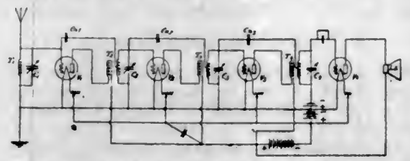
1. A golf tee comprising an elongated fibrous body, said body cupped at its top and botom, and means intermediate the ends of the body for anchoring the fibers in immovable relation to each other.

1,781,758. REFRIGERATOR. HARRY E. LARSEN, New York, N. Y., assignor to Edmund E. Allyne, as trustee for a syndicate composed of Edmund E. Allyne, Rollin H. White, and Harry E. Larsen. Filed June 30, 1927. Serial No. 202,559. 4 Claims. (Cl. 62—95.)



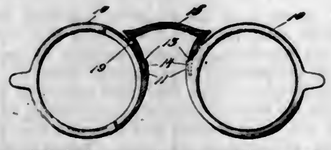
1. The combination of a refrigerator having heat insulated outer and inner refrigerating compartments and refrigerating apparatus therefor comprising a heat-insulated refrigerant storage tank within said outer compartment and evaporator elements in parallel gravitating communication with said storage tank and located in said outer and inner refrigerating compartments.

1,781,759. AMPLIFICATION SYSTEM. WILLIAM A. MACDONALD, Little Neck, N. Y., assignor to Hazeltine Corporation, Jersey City, N. J., a Corporation of Delaware. Filed Oct. 10, 1925. Serial No. 61,687. 17 Claims. (Cl. 179—171.)



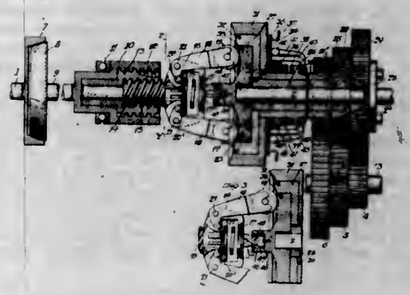
1. In a multi-stage tuned radio-frequency vacuum tube amplifier, each stage being coupled to the next adjacent stage by a single transformer, a variable condenser associated with each transformer in a tuned circuit for tuning the same over a predetermined wave-length range, the effective input impedance of each transformer at resonance being adjusted to such value that the ultimate amplification of all of said stages is substantially constant throughout said wave-length range when all of said condensers are adjusted so that their respective tuned circuits are substantially in resonance with each other.

1,781,760. OPHTHALMIC MOUNTING. GERARDO F. MARCIANO, Providence, R. I., assignor to Universal Optical Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Oct. 1. 1928. Serial No. 309,597. 4 Claims. (Cl. 88—42.)



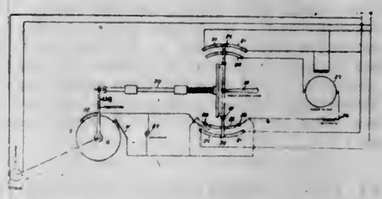
1. An ophthalmic mounting comprising a pair of spaced non-metallic eyewires, nose guard members integral therewith and having recesses therein, a bridge member having a pair of downwardly-extending side arms, the free end of each arm continuing its general extent into and terminating in and being secured in the recess of the corresponding nose guard member.

1,781,761. TORQUE-CONTROLLED GEAR-CHANGING MECHANISM. FRED W. MAYER, Chicago, Ill. Filed Sept. 26, 1928. Serial No. 308,387. 9 Claims. (Cl. 74—59.)



1. In a speed changing transmission gearing, driving and driven shafts, variable speed gears for connecting said shafts, means for changing the speed relationship between said gears, said means comprising radially shiftable clutch elements mounted for rotation by the drive shaft, and cooperating rotary clutch elements each having operative connections with different ones of the speed changing gears; said cooperating clutch elements having clutch faces radially spaced apart, and means operable by the difference in torque between the drive and driven shafts for shifting said radially movable clutch elements.

1,781,762. VARIABLE-SPEED CONTROL FOR ELECTRIC MOTORS. EDWIN J. MURPHY, Philadelphia, Pa. Filed Apr. 25, 1928. Serial No. 272,802. 1 Claim. (Cl. 171—222.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 870 O. G. 757.)



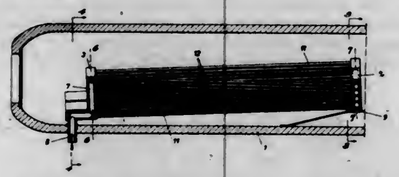
In a speed control for electric motors, a rotor, means for rotating the rotor at a constant speed, spaced insulated contacts on the rotor, a fixed brush contacting the rotor and a movable brush contacting the rotor and moved to vary the period of time during which the brushes engage a contact, a reversing switch provided with insulated terminals, means operated by the throw of the switch for moving the movable brush, a switch contact connected to one of the brushes, contacts adjacent to said contact connected to the other brush and to one terminal of a motor, such contacts adapted to be alternately engaged by a terminal of the switch after it has passed over the first contact, spaced contacts connected to respective terminals of a source of electrical supply and alternately engageable by the said switch terminal, a switch contact connected to the other terminal of the motor and engaged by the other switch terminal, and spaced contacts connected to respective terminals of a source of electrical supply, and alternately engaged by the last mentioned switch terminal.

1,781,763. SPRAY BRUSH. CHARLES O. NEWLIN, Seattle, Wash. Filed May 20, 1929. Serial No. 364,603. 2 Claims. (Cl. 15—65.)



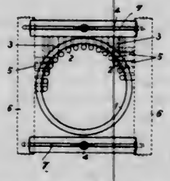
1. A device of the class described comprising a core structure including a hollow shaft, means for mounting bristles thereon, said hollow shaft being apertured among the bristles, a second hollow shaft having an internal flange, a coupling connecting the hollow shafts, a valve seat formed at the end of the first hollow shaft in the coupling, a valve in said coupling between the valve seat and flange, a spring engaging the flange and the valve, a stem engaged with the valve and slidable through the valve seat, and a plug at the other end of the first shaft, said stem being slidably mounted in said plug and extending therethrough, a base, a bearing on said base in which said second shaft is journaled, a cylinder over a portion of said second shaft, said portion of said second shaft being perforated, and means for connecting said cylinder with a source of water.

1,781,764. INDIRECTLY-HEATED STEAM GENERATOR. HEINRICH PEPERKORN, Cassel-Wilhelmshohe, Germany, assignor to Schmidt'sche Heissdampf-Gesellschaft m. b. H., Cassel-Wilhelmshohe, Germany, a Corporation of Germany. Filed Dec. 31, 1928, Serial No. 329,640, and in Germany Jan. 5, 1928. 2 Claims. (Cl. 257—236.)



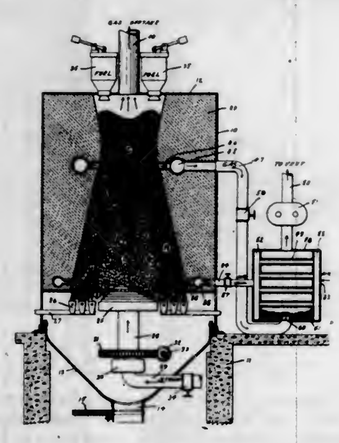
1. In an indirectly heated steam generator the combination of a boiler drum with heating elements disposed within the drum, each heating element having a steam inlet chamber and a condensate outlet chamber at its one end and a return header at its other end, a group of tubes connecting the said inlet chamber with the return header, a second group of tubes connecting the return header with said outlet chamber, the said two groups of tubes being arranged side by side and crossing one another.

1,781,765. GENERATOR OR PRODUCER. ERNST SCHUMACHER, Frankfort-on-the-Main, Germany. Filed Jan. 31, 1928, Serial No. 250,880, and in Germany Feb. 8, 1927. 5 Claims. (Cl. 122—5.)



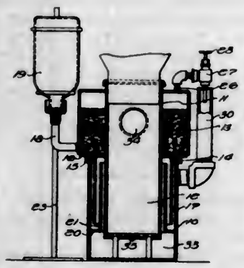
1. A gas generator having a lining of tubes, straight accessible upper and lower header drums connected together by said tubes, said water tubes having substantially right angled bends, the upper header drums being at right angles to the lower header drums and the bent portions of the tubes lying in two planes at right angles to one another.

1,781,766. METHOD OF AND APPARATUS FOR GENERATING COMBUSTIBLE GAS AND COKE. HARRY F. SMITH, Dayton, Ohio, assignor to The Gas Research Company, Dayton, Ohio, a Corporation of Ohio. Filed Sept. 9, 1922. Serial No. 587,075. 15 Claims. (Cl. 202—6.)



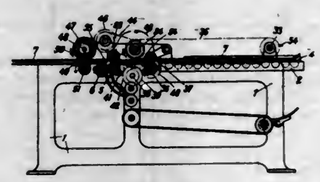
1. In the distillation of solid carbonaceous material, so as to generate a combustible gas and also produce coke in which a substantially continuous charge of the material being distilled is maintained within a retort, the method which comprises blasting the outer zone of said charge of ignited material with air to incandescence to generate heat for raising the temperature of the contiguous central zone of said material to cause the driving off of the volatile constituents therefrom; and concomitantly blasting with steam the material within the central zone from which the volatile constituents have been evolved.

1,781,767. GAS PRODUCER. HARRY F. SMITH, Dayton, Ohio, assignor to The Gas Research Company, Dayton, Ohio, a Corporation of Ohio. Original application filed Jan. 30, 1925, Serial No. 532,724. Divided and this application filed Dec. 10, 1923. Serial No. 679,603. 3 Claims. (Cl. 48—64.)



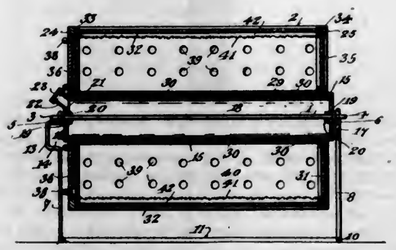
3. A gas producer of the character described, comprising a metallic shell, an inner tube spaced therefrom providing a gas generating chamber adapted to contain a fuel bed of incandescent carbonaceous material, a plurality of concentric upright partitions interposed between the shell and the said tube and spaced therefrom and from each other, the space between said tube and the partition immediately surrounding said tube having communication with said gas generating chamber, and the spaces between partitions being in staggered communication with each other and in communication with said first mentioned space, whereby a staggered connected passage around said partitions is provided, water vapor generating means in heat transferring relation with said producer, an air inlet for said producer, and means for causing said air and water vapor to circulate through said staggered passage as it travels to the fuel bed to thereby heat said air and water vapor prior to its introduction into the fuel bed.

1,781,768. FOLDING MACHINE. GEORG SPIESS, Leipzig, Germany. Filed May 9, 1928, Serial No. 276,328, and in Germany Feb. 15, 1927. 9 Claims. (Cl. 270—68.)



1. A folding machine for folding sheets of paper or the like having in combination with folding rollers and means for feeding the forward part of the sheets past said rollers a sheet clamping device placed a short distance beyond said rollers in the direction of feed, said clamping device comprising an abutment member and a member moved alternately to and from said abutment member.

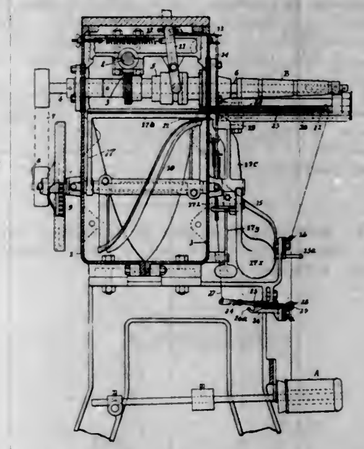
1,781,769. COMBINED DISPLAY AND STORAGE DEVICE. HUGH A. STOUT, Shawnee, Okla. Filed Aug. 26, 1929. Serial No. 388,576. 3 Claims. (Cl. 312—125.)



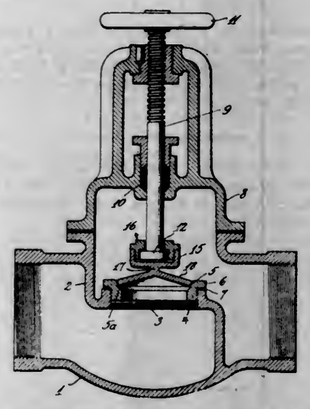
1. A combined display and storage device comprising a longitudinally disposed element provided with a plurality of storage compartments having transparent outer walls, and a skeleton support having upstanding side portions provided with combined seat and retaining portions for rotatably supporting said element from the ends thereof between said upstanding side portions, said element further including a refrigerant compartment having extended from one end thereof a combined filling and discharge tube therefor, one of said upstanding side portions being outset to provide a clearance for said tube during the rotation of said element.

1,781,770. WINDING MACHINE. HOMER D. TRACY, Ridgewood, N. J., assignor to Barbour Flax Spinning Co., Paterson, N. J., a Corporation of New Jersey. Filed Feb. 10, 1928. Serial No. 253,306. 9 Claims. (Cl. 242—43.)

1. In combination, the frame, means therein to rotate the tapered wound package being formed, a support movable in the frame from, and in a plane substantially perpendicular to, the true axis of the package, and a yarn traverser arranged to reciprocate in the support, said support having a guideway for the traverser arranged substantially parallel with the taper of the package.



1,781,771. VALVE. WYLIE G. WILSON, Jersey City, N. J., assignor to Wilson Rings Company, Jersey City, N. J., a Corporation of New Jersey. Filed Jan. 25, 1926, Serial No. 83,417. Renewed Apr. 16, 1930. 4 Claims. (Cl. 251—167.)

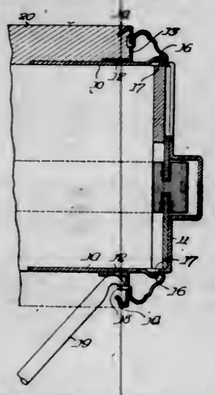


1. In a valve, a seat cylindrical in form, having a sealing face parallel with its axis and an annular shoulder within said cylindrer of a less diameter than the diameter of said cylinder, in combination with a hollow conical section of obdurate metal, the external and internal walls of said hollow conical sections being parallel, said hollow conical section having a peripheral bearing surface parallel with the axis thereof, said hollow conical section mounted within said cylindrical face and normally bearing the relation of a loose fit with said cylindrical sealing face, and mounted to engage said annular shoulder within said cylinder, means to compress said hollow conical section axially to cause the same to engage said shoulder and to expand cross-axially to engage said cylindrical surface, the degree of such compression being limited within the elastic limit of said hollow conical section, and means to relieve such compression to permit said hollow conical section to react due to the inherent resiliency thereof.

1,781,772. PROCESS OF MANUFACTURING COLOR LAKES FROM PETROLEUM. GILLERT ALLEMAN, Swarthmore, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a Corporation of New Jersey. Original application filed Feb. 6, 1924, Serial No. 691,023. Divided and this application filed Aug. 24, 1926. Serial No. 131,311. 8 Claims. (Cl. 260—1.)

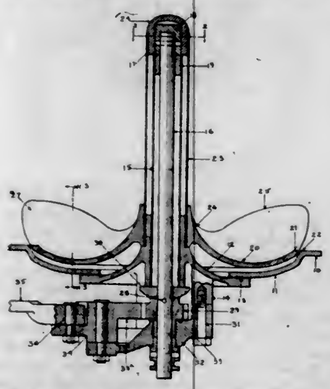
1. The process of manufacturing color lakes which comprises adding to a water-soluble fatty acid soap derived from petroleum, a water-soluble dyestuff and a water solution of a water-soluble metal salt adapted to precipitate said soap.

1,781,773. MOLDING FOR METAL FRAMES. ISAAC A. BAUM, Chicago, Ill. Filed Oct. 3, 1928. Serial No. 310,049. 5 Claims. (Cl. 72—98.)



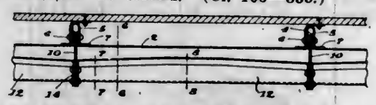
1. In combination, a frame element, a plaster finish flange perpendicular thereto, said flange having openings therethrough, and a metal molding strip having tongues adapted to project into said openings to serve as fastening devices for the strip.

1,781,774. AGITATOR FOR WASHING MACHINES. MEYER E. BLOCK, Peoria, Ill. Filed Feb. 20, 1928. Serial No. 255,791. 2 Claims. (Cl. 259—101.)



1. In combination with a washing machine tub having a depressed bottom portion, a water agitator comprising a central vertical stem portion, a vertical drive shaft projecting through the bottom center of the tub and supporting the vertical stem, a disk portion merging into said vertical stem and being disposed in the depressed portion of the tub and plural blade members upstanding from the face of said disk, said blades having a portion of their water agitating surface projecting a substantial distance beyond the adjacent edges of the disk and depressed tub portion.

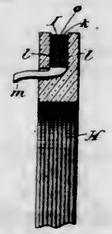
1,781,775. CARLINE REENFORCEMENT AND LOAD-LIFTING ARRANGEMENT. CHARLES D. BONSALL, New Kensington, Pa., assignor to P. H. Murphy Company, New Kensington, Pa., a Corporation of Pennsylvania. Original application filed Mar. 8, 1926, Serial No. 93,155, Patent No. 1,645,217, dated Oct. 11, 1927. Divided and this application filed May 3, 1927. Serial No. 188,565. 10 Claims. (Cl. 105—355.)



1. In a railway car having side plates, the combination of a plurality of carlines with their opposite ends attached to the opposite side plates, a longitudinally extending beam secured to the carlines, and roofing positioned in a plane above said beam and spaced therefrom, said beam being of U-section with an upwardly and outwardly extending flange at each upper margin thereof.

2. In a railway car, the combination of a longitudinally extending beam, and roofing positioned in a plane above said beam and spaced therefrom, said beam being of U-section with an upwardly and outwardly extending flange at each upper margin thereof.

1,781,776. RADIO FREQUENCY TRANSFORMER. FRANK L. CAPPS, Bridgeport, Conn. Filed Mar. 10, 1926. Serial No. 93,578. 1 Claim. (Cl. 175—359.)



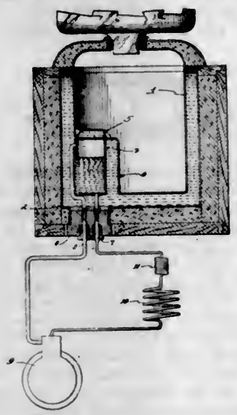
A radio frequency transformer comprising a ring of relatively large internal diameter and having an annular groove relatively wide as compared with the width of the ring formed in the outer periphery thereof, a secondary coil comprising superposed layers disposed within said groove and maintained against lateral movement by the walls thereof, and a primary coil comprising a single layer of wire disposed side by side arranged against the inner periphery of said ring.

1,781,777. ANTIGLARE DEVICE. FRANK T. CONNER, South Chicago, Ill. Filed Mar. 23, 1929. Serial No. 349,447. 2 Claims. (Cl. 296—97.)



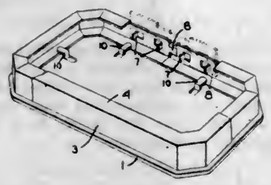
2. A device of the character described comprising a supporting member, a plate member spacedly positioned from said supporting member, a vertically disposed stop wall secured to said supporting member and said plate and adapted to maintain said plate member in spaced relation to said supporting member, a shank member slidably and rotatably disposed through said plate and said supporting member, a spring positioned about said shank and adapted to constantly urge said shank outwardly of said plate, a plurality of shade members swingingly positioned on said shank, said shade members being adapted to abut against said stop wall whereby to position said shade members in operative position, a shade engaging rod secured to said shank, and a stop lug on said supporting member and adapted for engagement with said rod whereby to hold said rod and said shade members in inoperative position.

1,781,778. REFRIGERATING UNIT OF FIRED CERAMIC MATERIAL. LLOYD G. COPEMAN, Flint, Mich., assignor to Copeman Laboratories Company, Flint, Mich., a Corporation of Michigan. Filed Feb. 29, 1928. Serial No. 257,811. 6 Claims. (Cl. 62—95.)



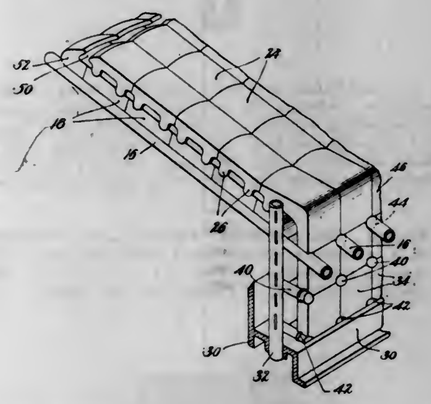
1. Refrigerating apparatus, comprising in combination a cooling unit formed of fired ceramic material, refrigerant receiving and conducting means forming a part of an automatic refrigerating system, located in proximity to an isolated portion of said wall or walls of fired ceramic material, and means in the form of a fluid serving as a heat conductor between said refrigerant receiving and conducting means and all the effective walls of said fired ceramic material.

1,781,779. BOX FOR JEWELRY AND THE LIKE. HARRY J. FARRINGTON, Auburndale, Mass. Filed Mar. 29, 1928. Serial No. 265,681. 12 Claims. (Cl. 206—75.)



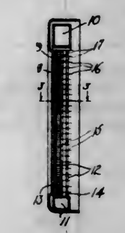
1. An ornamental box for jewelry and the like comprising a base, a continuous vertical side wall of structural shaped material having a web and flanges extending laterally therefrom so positioned that one of the members thereof forms the upper edge of said side wall and presents a rim simulating a thick side wall of massive appearance, covering material on the outer face of said side wall and extending over and around the upper edge thereof, a base having its edge projecting beyond the periphery of said side wall, covering material on the outer face of said base extending around the edge thereof, and beneath the lower edge of said side wall, and means securing said base to said side wall with the base covering therebetween.

1,781,780. REFRACTORY STRUCTURE. ARTHUR F. HALL, Boston, Mass., assignor to Hall Arch Company, Philadelphia, Pa., a Corporation of Delaware. Filed Sept. 27, 1928, Serial No. 308,607. Renewed Apr. 10, 1930. 10 Claims. (Cl. 110—76.)



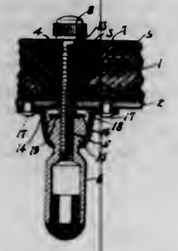
1. A refractory furnace structure comprising a flat support, a plurality of semi-cylindrical spacer bars arranged flat side down upon said support and having a rib near each end, and inner and outer wall sections having curved recesses in their lower surfaces with grooves to fit the ribs of the spacer bars.

1,781,781. RADIATOR. HARRY A. HIGGINS, Detroit, Mich., assignor to Long Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 13, 1925. Serial No. 22,857. 3 Claims. (Cl. 257—129.)



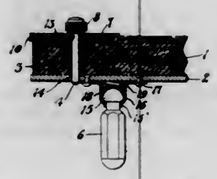
3. In a radiator construction, the combination with upper and lower headers and a plurality of water tubes arranged in rows three deep from the front to the rear of the radiator and connecting the upper and lower headers respectively, of a plurality of horizontal fin plates extending from the front to the rear of the radiator and engaging all of the said tubes, and a plurality of additional fin plates extending from the front of the radiator to a point midway between the front and the rear thereof, the said last mentioned fin plates terminating adjacent the middle row of water tubes.

1,781,782. PAD HOLDER. JOHN B. KEMP, Ridgewood, N. J., assignor to Clark Loose Leaf Manufacturing Company, a Corporation of New York. Filed Dec. 4, 1929. Serial No. 411,427. 14 Claims. (Cl. 40—120.)



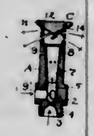
1. A pad holder including a base and pivoted standards associated therewith for movement to extended position for supporting said base in inclined position with respect to a supporting surface, said standards including substantially spherical heads, said base including sockets for pivotally retaining said heads with respect to said base.

1,781,783. PAD HOLDER. JOHN B. KEMP, Ridgewood, N. J., assignor to Clark Loose Leaf Manufacturing Company, a Corporation of New York. Filed Feb. 7, 1930. Serial No. 426,547. 5 Claims. (Cl. 40—120.)



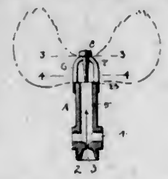
1. A pad holder including a base and pivoted standards associated therewith for movement to extended position for supporting said base in inclined position with respect to a supporting surface, said standards including heads, said base including sockets for pivotally retaining said heads and a retaining assembly within said sockets including bearing members for said heads to retain said standards in adjusted position.

1,781,784. GAS BURNER. HARRY E. KERR, Cleveland, Ohio, assignor to The Barber Gas Burner Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 2, 1928. Serial No. 266,531. 11 Claims. (Cl. 158—99.)



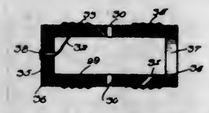
1. A gas burner, comprising a tube of relatively small dimensions having a gas orifice axially therein and an air port opposite said orifice, including an expanding passage extending into a mixing chamber having a closed outer end, communicating with circumferential slots in the side wall of the chamber.

1,781,785. GAS BURNER. HARRY E. KERR, Cleveland, Ohio, assignor to The Barber Gas Burner Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 9, 1928. Serial No. 268,404. 6 Claims. (Cl. 158—99.)



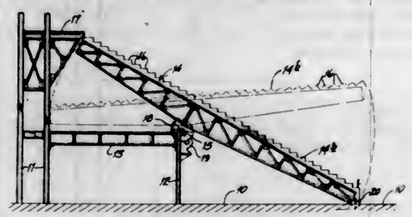
1. A gas burner, comprising a relatively small tube having a main discharge passage of equal cross-sections including an air port, extending into said passage and a gas orifice communicating with one end of said passage, together with a slotted deflecting cap surmounting the mouth of the tube.

1,781,786. MULTIPLE-SCREW FUSE PLUG. WILLIAM J. LUSE, New York, N. Y. Filed Apr. 2, 1926. Serial No. 99,224. 10 Claims. (Cl. 200—125.)



1. A device of the character described embodying a continuous, non-conducting hollow cylindrical body having a circular interior and provided intermediate its ends with vent openings extending through its wall, countersunk seats at the opposite ends of said body, an insulating stopper seated in each countersunk end of the body with the outer face of each stopper flush with the corresponding end of the body and permanently secured to the body against removal, an annular threaded metallic sleeve embracing the body adjacent each end thereof and free from engagement with the stoppers, said sleeves being permanently secured to the body against removal, a contact terminal at the center of each stopper, and fusible material connecting each contact terminal with the corresponding threaded sleeve.

1,781,787. MOVABLE BALCONY FOR BUILDINGS. BENJAMIN H. MARSHALL, Wilmette, Ill. Filed Mar. 21, 1930. Serial No. 437,633. 4 Claims. (Cl. 189—1.)



1. In a building, a floor, a platform elevated above said floor, a movable balcony adapted to extend diagonally from said platform to the floor, said balcony being hingedly mounted between said platform and floor, and means for tilting said balcony about said hinges so as to clear the floor space beneath said balcony.

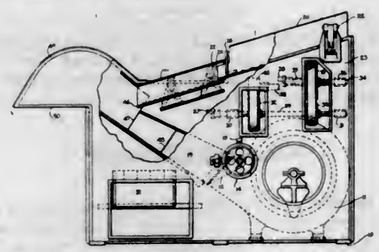
1,781,788. PROCESS FOR THE PRODUCTION OF A FERMENT. WINCENTY MATZKA, London, England. Filed Mar. 2, 1926, Serial No. 91,854, and in Great Britain Apr. 8, 1925. 9 Claims. (Cl. 195—20.)

9. Process for the production of a ferment for the fermentation of the aqueous saccharine extract from waste vegetable raw material containing sugar which comprises treating said waste vegetable raw material to obtain an aqueous extract, supplying approximately 12% of alcohol to said extract, inoculating said extract with a small quantity of alcohol-producing ferment, and then progressively adding to said extract sugar from another source to propagate said ferment while maintaining sugar concentration characteristic of said vegetable material and alcohol concentration approximately constant, and stabilizing the ferment so propagated with alcohol, glycerine and a weak organic acid.

1,781,789. CHROMIUM PLATING. JOHN F. K. MCCULLOUGH and BENJAMIN W. GILCHRIST, Detroit, Mich., assignors to Ternstedt Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 30, 1927. Serial No. 223,235. 5 Claims. (Cl. 204—1.)

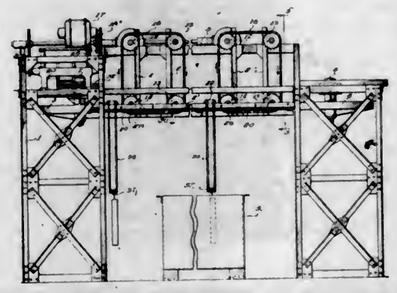
1. In a chromium chloride plating bath, the incorporation of an addition agent in said bath which combines with the hydroxyl ions for the purpose of preventing the deposit of chromium hydroxide on the work.

1,781,790. SEPARATOR. WILLIAM M. MCKENZIE, Glenbrook, Conn. Filed Apr. 20, 1929. Serial No. 356,821. 2 Claims. (Cl. 209—149.)



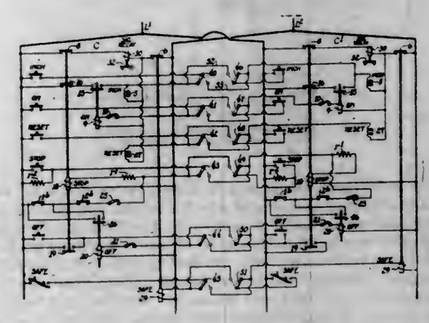
1. In a machine of the class described, a vibrating feeder plate, a second vibrating feeder plate adapted to receive material from said first plate, means for vibrating said second plate at a higher speed than said first plate, an air draft passage, said second plate being adapted to drop material into said passage.

1,781,791. ELECTROPLATING MACHINE. CONSTANTINE G. MILLER, Chicago, Ill. Filed Dec. 22, 1928. Serial No. 328,031. 7 Claims. (Cl. 204—5.)



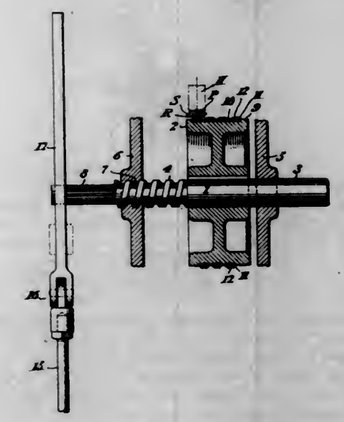
1. In a plating machine, a supporting structure comprising spaced end columns and an intermediate structure, a continuous loop shaped trough extending between said columns and located in a substantially horizontal plane, an endless conveyor movably mounted in said trough comprising spaced upright pins, article carriers removably supported on said trough, each comprising a shoe having a slot therein for receiving one of said upright pins, and spaced endless vertical traveling members mounted on said intermediate structure comprising projecting rollers for engaging a groove in the shoes of said carriers to intermittently lift the carriers from said longitudinal conveyor and replace them thereon in advanced position for facilitating the transfer of articles from one plating tank to another.

1,781,792. MOTOR CONTROLLER. THOMAS H. RODMAN, New York, N. Y., assignor, by mesne assignments, to Cutler-Hammer Inc., Milwaukee, Wis., a Corporation of Delaware. Filed Apr. 27, 1922. Serial No. 556,939. 5 Claims. (Cl. 177—311.)



1. The combination with a plurality of motor controllers each including manual control switches and electroresponsive switches controlled by the former switches, of signaling means associated with each of said controllers and subject to control by certain of the manual and electroresponsive switches thereof and commutatable connections whereby the signaling means of one controller may be subjected to control by the corresponding switches of another of said controllers.

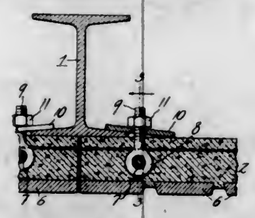
1,781,793. WEIGHT-PRINTING MECHANISM FOR SCALES. HARRY E. SPENCER, New York, N. Y. Filed Aug. 16, 1927. Serial No. 213,365. 9 Claims. (Cl. 101—91.)



1. A weighing scales comprising a weighing platform; a rotor provided upon its periphery with a series of numbers running circumferentially around the rotor and transversely across its peripheral face; means operatively connecting the weighing platform to the rotor to turn said

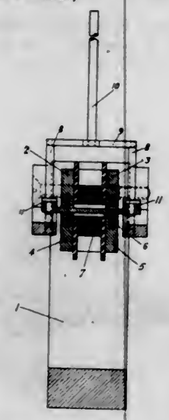
rotor when the weighing platform is depressed; and means for moving the rotor axially during its rotation to bring the number indicating the amount of weight on the platform to a fixed point, the means connecting the weighing platform to the rotor automatically returning the rotor to normal position when the weight is removed.

1,781,794. BUILDING CONSTRUCTION. ROBERT TAPPAN, Forest Hills, N. Y. Filed Jan. 13, 1928. Serial No. 246,422. 1 Claim. (Cl. 72—20.)



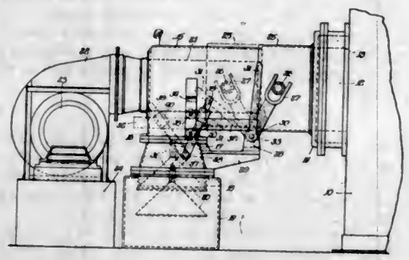
In building construction including a plurality of vertically disposed and spaced apart I-beams, panels attached to the flanges of said I-beams, each of said panels including embedded eye-bolts having their threaded portions projecting beyond the rear face of said panel, rods extending vertically through said panel and passing through the eyes of said eye-bolts and means for securing said bolts to the flanges of said I-beams, said means including washers that overlie the maginal edges of said flanges.

1,781,795. DEVICE FOR CONVERTING ELECTRIC OSCILLATIONS INTO MECHANICAL VIBRATIONS. ROELOF VERMEULEN, AREND THOMAS VAN URK, and THEODORUS HENDRICUS HERMANS, Eindhoven, Netherlands, assignors to Radio Corporation of America, a Corporation of Delaware. Filed May 18, 1927, Serial No. 192,430, and in the Netherlands May 21, 1926. 3 Claims. (Cl. 175—339.)



1. A device for converting electrical oscillations into mechanical vibrations comprising a permanent magnet, pole pieces for said magnet providing two north poles and two south poles, a flat armature positioned between the poles of said pole pieces, said pole pieces being so constructed and arranged that there is one north pole and one south pole below and above the armature, members connected to the ends of said armature, a yoke connecting said members, an operating rod connected to said yoke, and a coil surrounding said armature, said coil being adapted to carry a voice-modulated current to vary the magnetic force between the magnet pole pieces and the armature.

1,781,796. BURNER. FREDERICK H. WILLCOX and EDGAR P. EVERHARD, Chicago, Ill., assignors to Freyn Engineering Company, Chicago, Ill., a Corporation of Maine. Filed Apr. 14, 1928. Serial No. 269,926. 3 Claims. (Cl. 263—19.)



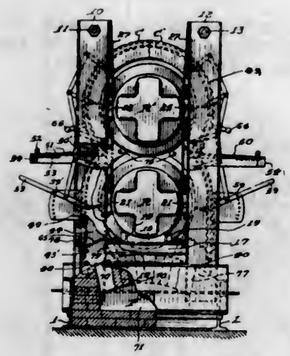
3. In combination, a hot blast stove, means for directing air and gas to said stove, said means stopping short of said stove, and a sleeve slidable along said means for conducting a mixture of gas and air delivered by said means to said stove, said sleeve being adapted to complete the connection between said means and said stove.

1,781,797. PROCESS OF MAKING PACKING MATERIAL AND PRODUCT. HARRISON R. WILLIAMS, New York, N. Y. Filed Mar. 22, 1927. Serial No. 177,267. 2 Claims. (Cl. 154—54.)



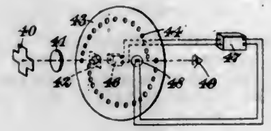
1. A packing sheet for fragile articles consisting of soft, loosely felted fibers and a backing of relatively strong fabric, said soft material having its outer surface dyed, and having a tinted outer covering, the color of said soft material reinforcing that of said outer covering.

1,781,798. ROLL HEATER. JOHN D. WILLIAMS, Niles, Ohio. Filed Oct. 24, 1928. Serial No. 314,570. 12 Claims. (Cl. 80—41.)



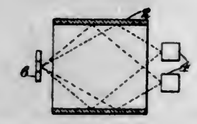
1. A machine for heating rolls comprising a base, a furnace adjacent the base adapted to supply heat for heating the rolls, a casing supported on the base and adapted to receive a plurality of rolls disposed one below the other, means for conducting the products of combustion from the furnace to the lower part of the casing, means extending from the base for rotatably supporting the rolls within the casing and independently thereof, and means for positively driving at least one of the rolls.

1,781,799. METHOD OF AND MEANS FOR TRANSMITTING SIGNALS. JOHN LOGIE BAIRD, London, England, assignor to Television Limited, London, England, a British Company. Filed Oct. 7, 1927, Serial No. 224,711, and in Great Britain Oct. 15, 1926. 6 Claims. (Cl. 178—6.)



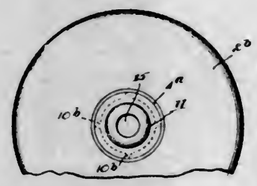
1. In apparatus of the class described, in combination, means for directing rays of non-visible frequencies against an object, a light sensitive device sensitive to such rays and arranged adjacent said object for producing a modulated electric current, scanning means disposed between said object and device, a source of illumination oporatively coupled with said device and acting in response to the impulses transmitted thereby, and exploring means forming an integral part of said scanning means and disposed adjacent said source of illumination.

1,781,800. TELEVISION APPARATUS AND THE LIKE. JOHN LOGIE BAIRD, London, England, assignor to Television Limited, London, England, a British Company. Filed Apr. 8, 1929, Serial No. 353,633, and in Great Britain Apr. 16, 1928. 5 Claims. (Cl. 178—6.)



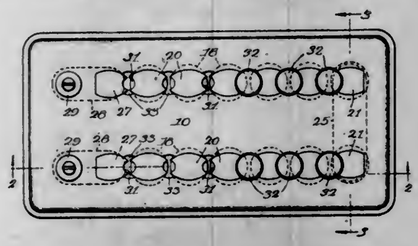
1. In a television system, the combination, with light-sensitive means responsive to light reflected from an object, of reflecting surfaces disposed adjacent the path of light from the object to the light-sensitive means, said reflecting surfaces being adapted to concentrate onto said light-sensitive means light scattered laterally from said object.

1,781,801. SPOOL OR BOBBIN. LUTHER CHASE BALDWIN, Providence, R. I., assignor, by mesne assignments, to U. S. Bobbin & Shuttle Company, 1929, Providence, R. I., a Corporation of Rhode Island. Filed Sept. 15, 1927. Serial No. 219,621. 9 Claims. (Cl. 242—124.)



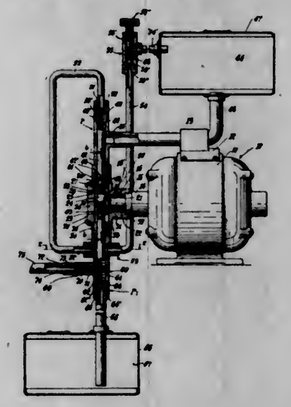
1. A spool or bobbin comprising a tubular barrel and a head independent thereof, the head having a central aperture receiving the end portion of the barrel, the wall of said aperture having circumferentially spaced recesses and the barrel having integral projections engaging said recesses whereby positively to prevent relative rotation of the head and the barrel, said recesses being spaced from the outer surface of the head and tapering in width, being widest adjacent to said inner face of the head.

1,781,802. RESISTANCE BOX. ERICH BANDOLY, Chicago, Ill., assignor to Central Scientific Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 8, 1926. Serial No. 86,867. 5 Claims. (Cl. 201—61.)



1. A ventilated resistance box having top, side, and end walls molded as an integral structure with an elongated slot in the top of the box and a series of oval lugs having recesses in the side thereof, said lugs being of conducting material disposed within the slot and having the walls of the slot molded in interlocking engagement therewith, said interlocking engagement forming means independent of frictional resistance for resisting the relative movement of said lugs and top in every direction, said lugs being disposed in spaced relation and defining openings therebetween for receiving tapering plugs of conducting material.

1,781,803. OIL PUMP. ANTHONY BIZZARRI, New York, N. Y. Filed June 29, 1927. Serial No. 202,214. 10 Claims. (Cl. 103—153.)

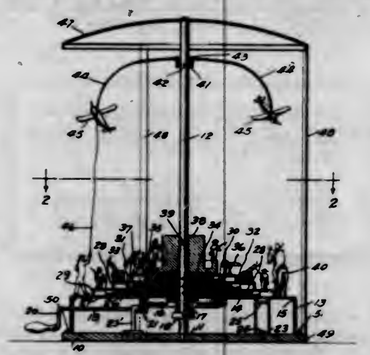


1. In a fluid pumping system, a source of supply of fluid, outlet means communicating with said source of supply of fluid, pumping means communicating with said outlet means and therethrough with said source of supply of fluid, and a discharge conduit communicating with the outlet of said pumping means, in combination with a second source of supply of fluid, outlet means communicating with said second source of supply of fluid, and pumping means including a plunger communicating with said last-mentioned source of supply of fluid, said plunger traversing said conduit so as to be in contact with the fluid passing therethrough, both of said pumping means being eccentrically operated.

1,781,804. MECHANICAL TOY. JOSEPH BULKOWSKI, Chicago, Ill. Filed Jan. 16, 1930. Serial No. 421,182. 2 Claims. (Cl. 272—31.)

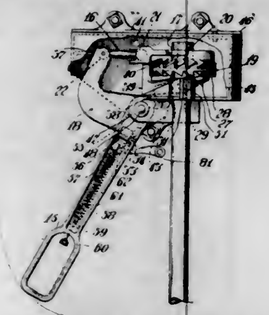
1. A mechanical toy comprising a plurality of platforms of graduated diameters, a post passing through

said platforms and around which the latter are adapted to rotate, a gear affixed to one of said platforms, a crank



shaft, a gear positioned upon said crank shaft and meshing with the first named gear, and rollers in frictional contact with each pair of adjacent platforms.

1,781,805. BRAKE MECHANISM FOR RAILWAY CARS. PERCY B. CAMP, Maywood, Ill., assignor to Universal Draft Gear Attachment Co., a Corporation of Illinois. Filed Nov. 7, 1925. Serial No. 67,611. 24 Claims. (Cl. 74—116.)

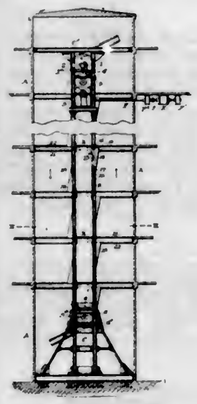


5. In a railway hand brake of the type wherein the hand power for applying the brakes is transmitted thru an upright brake shaft which is rotatably mounted in a position that cannot advantageously accommodate the conventional hand lever devices, the combination of an upright brake shaft, a hand lever mounted for brake-operating oscillating movements about a horizontal axis transverse to the brake shaft and a driving connection between the lever and shaft for rotating the shaft by the oscillating movements of the lever, said connection including an overrunning clutch, one element of which is horizontal and is oscillated by the lever and another element of which rotates with the shaft, ratchet means for restraining the shaft from unwinding, and means for disengaging the overrunning clutch and the ratchet means to release the brakes.

9. In a railway hand brake, the combination with the wall of a car, of an upright brake shaft to be driven, a horizontal drive shaft extending through the wall, a crank handle for each end of the drive shaft, a driving crank arm for one of the crank handles and in operative relation with the drive shaft, and a driving connection between the driving crank arm and the brake shaft including a ratchet clutch, one element of which is connected to and oscillated by the driving crank arm and the other element of which is connected to and rotates with the brake shaft.

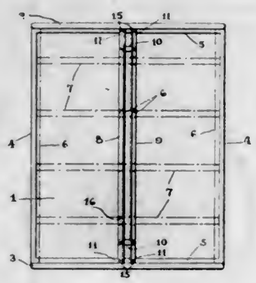
11. In a railway hand brake, the combination of an upright brake shaft, an upright hand lever mounted to rotate about a horizontal axis transverse to the shaft, a horizontal driving connection between the lever and the shaft, including an upright crank arm rotatably mounted with respect to the hand lever, and means carried by the hand lever for engaging the crank arm to normally prevent relative rotation.

1,781,806. ELEVATOR MECHANISM. JAMES STARR DA COSTA, Merchantville, N. J., assignor of one-half to Jervis B. Webb, Detroit, Mich. Filed Nov. 24, 1928. Serial No. 321,087. 8 Claims. (Cl. 198—137.)



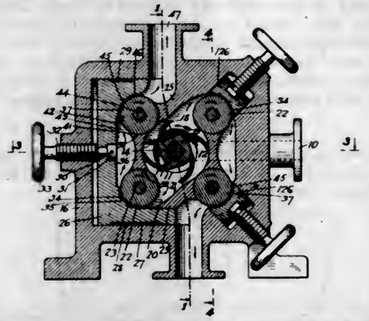
1. In an elevator structure, a plurality of sets of endless chains, sprocket wheels over which said chains pass, platforms disposed between said sets of chains, sets of spaced rods disposed in pairs and operatively connecting the respective platforms to the respective sets of chains in alternate relation, means whereby said rods may alter their spaced relation with respect to said platforms when passing over the sprocket wheels, and means for simultaneously driving the respective sets of chains in one direction.

1,781,807. UNIT TWIN BED. FRANCES M. DE LEON, New York, N. Y. Filed Dec. 1, 1928. Serial No. 323,153. 5 Claims. (Cl. 5—8.)



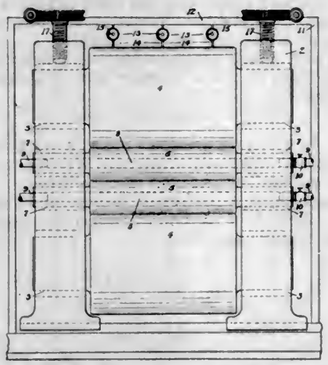
1. A bed converter comprising a duplex stringer formed of two angle-irons L-shaped in cross-section and arranged in spaced apart relation with their vertical walls adjacent and parallel, their horizontal walls directed away from each other, and their channeled sides presented upwardly providing two parallel receptacles for the adjacent side bars of single mattresses, and means for connecting said angle-irons and for holding them in the relation stated.

1,781,808. GRINDER FOR PIGMENTS AND THE LIKE. EUGENE DE ROZIERES, Metuchen, N. J. Filed May 23, 1928. Serial No. 280,101. 29 Claims. (Cl. 83—22.)



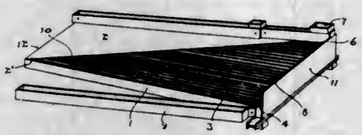
1. In a grinder, a revoluble roll, means for forming a passage to said roll, and a stationary block adjustable relatively to said roll, and provided with a smooth arcuate surface substantially continuous with and tangent to the adjacent part of the walls of said passage and substantially parallel to the surface of the roll, whereby the grinding action takes place between said roll and said surface and the material advanced along the passage meets the roll in a direction tangent to the surface of the roll at the point of contact.

1,781,809. ROLLING MILL. WILLIAM F. DETWILER. Tarentum, Pa., assignor to Allegheny Steel Company, Brackenridge, Pa., a Corporation of Pennsylvania. Filed Dec. 14, 1927. Serial No. 239,904. 7 Claims. (Cl. 80—41.)



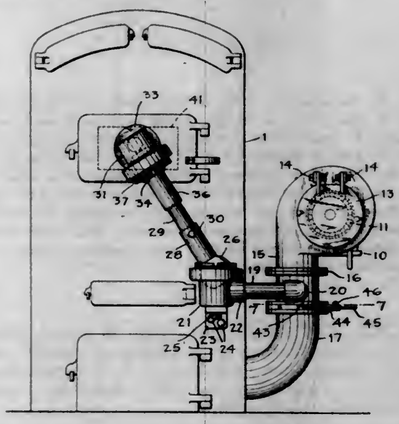
7. In a four high mill, backing rolls, reducing rolls, means for controlling the temperature of the reducing rolls, and means for indicating variations in the temperature of said reducing rolls, said means comprising deflection gauges co-operating with a backing roll.

1,781,810. ORE-CONCENTRATING TABLE. FREDERICK C. DYER, Toronto, Ontario, Canada. Filed Feb. 3, 1928. Serial No. 251,607. 6 Claims. (Cl. 209—441.)



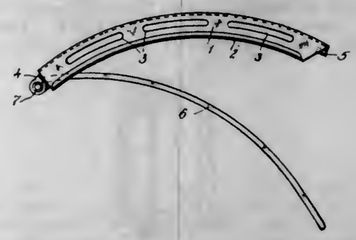
1. A concentrating table having a sloping plane surface extending from the upper feed side to a diagonal sloping to the discharge end, and a riffle surface extending downwardly from said diagonal to the tailings discharge side, the riffled surface being inclined longitudinally upwardly from the head end to the diagonal.

1,781,811. FURNACE ATTACHMENT. HARRY F. EASTWOOD, Merrick, N. Y. Filed Apr. 25, 1929. Serial No. 357,912. 4 Claims. (Cl. 110—72.)



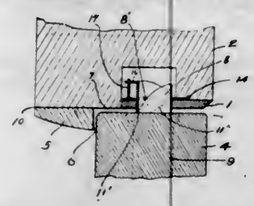
1. An attachment for furnaces having an ash pit, a grate and a fire door with an opening above the grate, comprising a conduit connected to the ash pit, a motor driven blower for supplying air to the conduit, a branch pipe connected to said conduit for receiving a part of the air supplied to the conduit, permanent connections between the branch pipe and the fire door for supplying air through the opening in the door, a diffusing plate for distributing the air above the grate, said permanent connections including a universal ball and socket joint mounted on the door of the furnace, the ball and the socket of said joint being provided with openings for the passage of air and a valve for regulating the amount of air supplied by the conduit and by the branch pipe so as to provide a constantly balanced relation between the amount of air delivered above the grate and the amount of air delivered below the grate of the furnace.

1,781,812. PINCH WAVER. ABRAHAM GOODMAN and JACOB GOODMAN, Brooklyn, N. Y. Filed June 19, 1929. Serial No. 372,080. 2 Claims. (Cl. 132—41.)



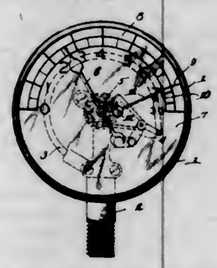
1. A pinch waver comprising a channel member having a substantially continuous top portion and parallel side portions, said channel member being arched lengthwise, an arched tongue of single curvature pivotally secured to one end of the channel member and extending lengthwise thereof intermediate its parallel side portions, and a catch at the opposite end of the channel to engage and hold the free end of the tongue in closed position.

1,781,813. LOCK DEVICE. SELDEN J. GOODWIN, San Francisco, Calif. Filed Sept. 17, 1928. Serial No. 306,363. 7 Claims. (Cl. 70—15.)



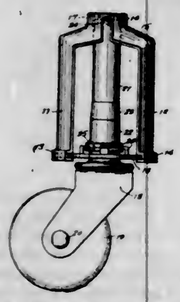
1. In combination with a door lock having its outer face in one plane, a spring bevel-sided bolt adapted to engage the edge of an opening in a striker plate, a rigid wall projecting outwardly from said striker plate guarding the bolt when engaged with the plate of a height to take up the normal clearance between lock and plate when the door is hung and substantially touching the face of the lock exposed at the edge of the door, said wall extending along one vertical edge of said opening adjacent the beveled side of the bolt.

1,781,814. RETARD GAUGE. OTTO W. HEISE, Bridgeport, Conn., assignor to Consolidated Ashcroft Hancock Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Nov. 21, 1927. Serial No. 234,567. 14 Claims. (Cl. 73—109.)



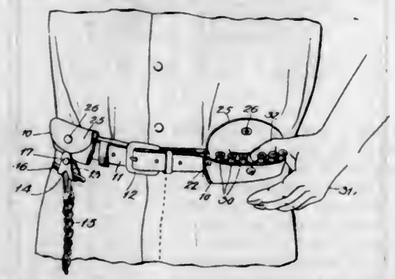
1. A retard pressure gauge having a pressure responsive element, a movable index, connections for transmitting movement of the pressure responsive element to the index, and yielding means cooperable directly with the index, after a predetermined movement thereof for retarding further movement of the index.

1,781,815. CASTER. WALTER F. HEROLD, Upper Montclair, N. J., assignor to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 7, 1927. Serial No. 238,311. 1 Claim. (Cl. 16—39.)



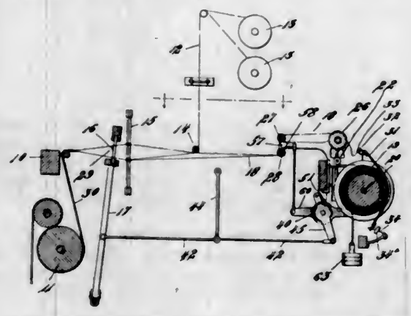
In a support, a floor engaging element including a pintle, pintle receiving means adapted to be secured to a furniture leg or the like and including a base, a split spring ring adapted to be expanded and contracted, ring supporting means carried by said base disposed laterally outwardly of said ring and adapted to retain said ring laterally with respect to said pintle receiving means, said ring including means disposed transversely above and below said supporting means and adapted to confine said ring axially, said ring being adapted to retain said pintle with respect to said pintle receiving means.

1,781,816. CARTRIDGE HOLDER. JOHN B. JOVINO, Brooklyn, N. Y. Filed Nov. 8, 1928. Serial No. 317,893. 5 Claims. (Cl. 224—23.)



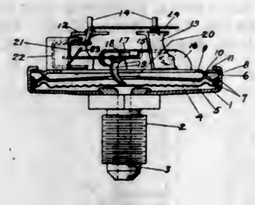
1. A cartridge holder of the class described comprising an elongated pocket, the depth of said pocket being substantially less than the length of the cartridges to be inserted therein, means within said pocket for loosely supporting a plurality of cartridges in upright position and in a plurality of independent groups therein whereby the upper ends of said cartridges will project well above the top of said pocket, and means adapted to be arranged over said cartridges for retaining the same against accidental displacement whereby the removal of said means will expose the projected ends of said cartridges to permit the grasping of a plurality thereof and the quick removal of said cartridges by virtue of their loose mounting within said pocket.

1,781,817. TENSIONING DEVICE FOR ELASTIC THREADS. CHARLES FRANKLIN KENYON, Shannock, R. I., assignor to Columbia Narrow Fabric Company, Shannock, R. I., a Voluntary Association of Rhode Island. Filed Feb. 1, 1928. Serial No. 251,057. 21 Claims. (Cl. 139—104.)



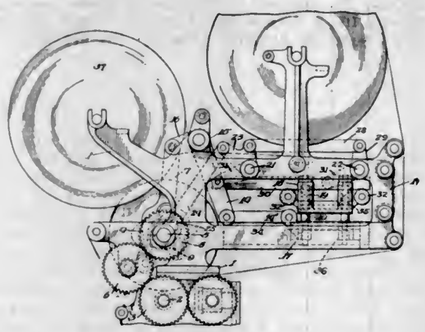
1. In a machine for covering elastic threads, a support for a package of elastic threads, means for applying a covering of yarn to these threads as fed through the machine, means operated by action of the machine for separately engaging and feeding each individual thread, means responsive to the tension of a group of said threads for controlling the action of the feed device for that group, and means on the feed device for controlling the degree of tension to be applied to said thread group necessary for operating said feeding mechanism.

1,781,818. PRESSURE GAUGE. CARL T. MASON, East Orange, N. J., assignor to Tiffany Manufacturing Company, Newark, N. J. Filed Dec. 1, 1928. Serial No. 323,109. 8 Claims. (Cl. 73—110.)



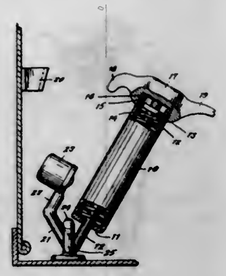
5. In a pressure gauge, a base member having means for attaching a pressure conduit thereto and also having an inner periphery, a pair of movable diaphragms which at lower pressures are separated but having their peripheries fitting and sealed within the inner periphery of the base forming a compression chamber therewith, the inner diaphragm being thin and deformed for the purposes specified and adapted to be brought into engagement with the outer diaphragm as the pressure increases, the outer diaphragm being much thicker than the inner one and acting as a stop therefor as and for the purpose specified and responsive to pressures above that required to bring the inner diaphragm into contact with it, a mounting plate carried on the base adjacent the outer diaphragm, an indicating device and means carried on the mounting plate for connecting said device in operative relation to the inner diaphragm, said outer diaphragm having an opening therein to permit said operative connection to be made with the inner diaphragm.

1,781,819. PERFORATING DEVICE. WES W. McCAIN, Oak Park, Ill., assignor to Blue Valley Creamery Company, Chicago, Ill., a Corporation of Delaware. Filed July 16, 1927. Serial No. 206,295. 4 Claims. (Cl. 164—49.)



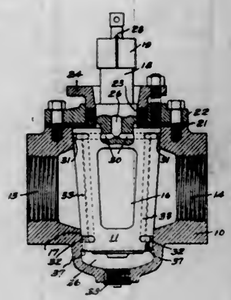
2. In a perforating device of the class described, the combination of a frame, a carriage movable on the frame in parallel relation to the line of movement of the web, a perforating head on said carriage, horizontal bars engaging said head to move the head vertically, links pivotally connecting the bars with the frame to maintain said bars in parallel relation to the line of movement of the web, and means for actuating said links to move the bars vertically in parallel relation to the web.

1,781,820. HOOD CATCH. RAYMOND G. MOORE, Bridgeport, Conn., assignor to The Bassick Company, Bridgeport, Conn., a Corporation fo Connecticut. Filed May 23, 1928. Serial No. 279,909. 5 Claims. (Cl. 292—128.)



1. In a hood catch or the like, a member having a keeper engaging hold down clamp, a member longitudinally slidable relatively to said first member, means coacting between and adapted to exert a contracting pressure on said members, said second member having inclined means rigidly connected thereto disposed in inclined angular relation to the longitudinal axis of said member, a fixed support engaged by said inclined means whereby contracting movement of said members is adapted to cause relative inward movement of said inclined means relatively to said support, and side engaging means disposed between the catch and the hood adapted upon said inward movement of the inclined means to exert an inward pressure on the hood.

1,781,821. LUBRICATED PLUG VALVE. SVEN JOHAN NORDSTROM, San Francisco, Calif., assignor to Merco Nordstrom Valve Company, San Francisco, Calif., a Corporation of Delaware. Filed Feb. 26, 1929. Serial No. 342,853. 14 Claims. (Cl. 251—93.)



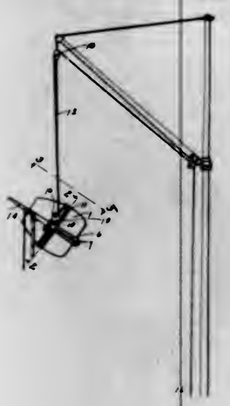
1. In a valve, a body member having an inflow and an outflow passage, a tapered plug member rotatable within said body and having a port adapted to register with said passages when the plug is in open position, said members having a seating surface formed between the same, a groove interrupting said seating surface and substantially surrounding at least one of said passages when the plug member is in closed position, means utilizing fluid pressure for effecting longitudinal jacking movement of said plug to unseat the same, and a lubricant chamber communicating with both said groove and said means and adapted to contain lubricant under pressure.

1,781,822. COMBINED BRUSH AND HAT HOLDER. CARL V. POHLSON, Pawtucket, R. I. Filed Mar. 26, 1930. Serial No. 439,011. 7 Claims. (Cl. 211—33.)



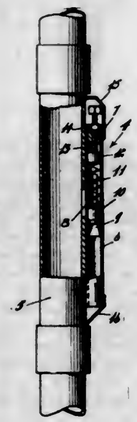
1. A combined brush and hat holder comprising a base, a standard supported by the base, and a brush supported on the standard provided with a portion arranged to support a hat.

1,781,823. CONCRETE MIXER. FRANK D. ROBBINS, Newberg, Oreg., assignor of one-half to William A. Bond, Newberg, Oreg. Filed July 5, 1928. Serial No. 290,604. 1 Claim. (Cl. 83—73.)



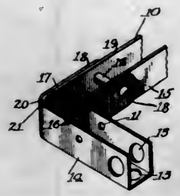
In a concrete mixer, in combination with a mixing shell, a yoke encompassing the shell, a journal pin centrally disposed on the base of the yoke, said journal pin centrally disposed within the base of the shell about which the shell is adapted for rotation, a pair of supports, each having a slot being adjustably positioned relative to the arms of the yoke substantially near their ends, a pair of guide rollers journaled on the top of each support, a furcated U-shaped band centrally disposed about the outer circumference of the shell and directly aligned with the guide rollers and a hoisting line passing once around the shell within the furcated U-shaped band and between the two sets of guide rollers, substantially as shown and described and for the purposes set forth.

1,781,824. FLUID-LEVEL REDUCER FOR OIL WELLS. HUBERT J. SMITH, Long Beach, Calif. Filed Jan. 21, 1929. Serial No. 333,946. 3 Claims. (Cl. 103—232.)



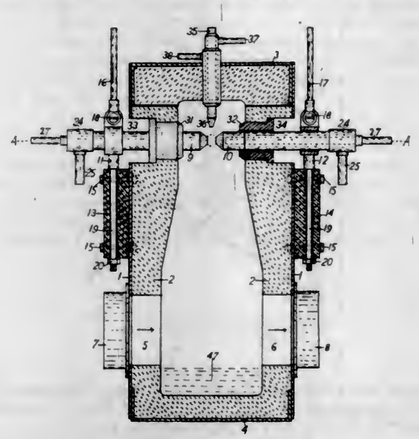
1. In combination with an oil well including casing, tubing, and a flow device adjacent the lower end of the tubing, of a fluid level reducer positioned in said tubing above the flow device, said reducer comprising, a pipe secured to the flow tubing, said pipe and tubing having a communicating slot formed therein, a valve in the pipe below said slot, and spring means bearing against said valve.

1,781,825. MILK-BOTTLE CRATE. ROBERT STODDARD, Chicago, Ill., assignor to Milk Bottle Crate Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 17, 1927. Serial No. 213,507. 1 Claim. (Cl. 217—19.)



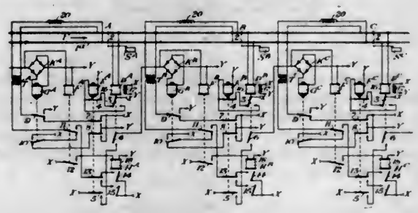
A rectangular crate having sides and ends fastened together, a channel frame receiving the bottom edges of the sides and ends of the crate, said channel frame having the side members of one end fitting within the side members of the other end adjacent a corner of the crate, the outer side member of one end being bent around the corner of the crate, and extending beyond said corner and the outer side member of the other end lying flush against the inside of said bent portion, and outside angle members fastened at the corners of the crate with their lower ends overlapping and secured to said channel frame.

1,781,826. PROCESS OF TREATING HYDROCARBONS. DONALD L. THOMAS, New York, N. Y. Filed July 23, 1927. Serial No. 207,850. 5 Claims. (Cl. 196—24.)



4. In the process of improving hydrocarbons, the steps which consist in bringing the hydrocarbons to be treated into intimate contact with substantially dry, oxygen-free electrified atomic hydrogen previously produced in an electric arc and effecting the reaction therebetween in a zone out of the direct influence of said arc.

1,781,827. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. HOWARD A. THOMPSON, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed June 26, 1928. Serial No. 288,336. 5 Claims. (Cl. 246—39.)



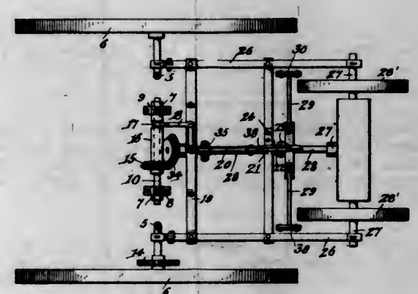
1. In combination, a stretch of railway track divided into sections, a track circuit for each section including a source of track circuit current reversibly connected with the rails of the section and a track relay responsive to reversals of current, a repeater relay for each section, means for energizing each repeater relay when and only when the associated track relay is energized in reverse direction and for subsequently keeping the repeater relay energized when the track relay becomes energized in normal direction, and means controlled by each repeater relay for supplying to the rails of the associated section train governing current of such characteristic as to give a less restrictive or a more restrictive indication according as the repeater relay is energized or de-energized, the relative polarity of the train governing current in each section being the same as that of the track circuit current normally supplied to the section next in advance, so that if an insulated joint fails and the track relay for the section in advance of such joint becomes energized by train control current from the section in the rear while the advance section is occupied, the repeater relay for the rear section will remain de-energized and the more restrictive indication will be given in the rear section.

1,781,828. LUBRICATING RINGS AND TRAVELERS IN DOUBLING AND LIKE FRAMES. WILFRED WHITELEY, Elland, England, assignor to Eadie Brothers and Company Limited, Paisley, Scotland, a Company of Great Britain. Filed July 8, 1929, Serial No. 376,733, and in Great Britain Aug. 10, 1928. 12 Claims. (Cl. 118—59.)



10. A spinning ring having an annular groove formed in the inner wall thereof and a radial opening extending outwardly from said groove, and an absorbent wick arranged within said groove and extending through said opening.

1,781,829. COTTON CHOPPER. JOHN W. ALLEN, Fresno, Calif. Filed June 25, 1929. Serial No. 373,563. 2 Claims. (Cl. 97—15.)



1. In a cotton chopper, a frame, a main shaft supported by the frame, chopping blades rotated by the shaft, said shaft having an offset portion, a controlling lever, means actuated by the controlling lever for throwing the shaft into and out of operation, and a coiled spring connected with the lever and having connection with the offset portion of the shaft for moving the shaft to its initial position when the lever is operated to throw the shaft out of operation.

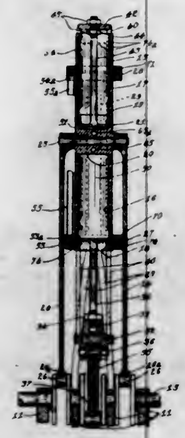
1,781,830. PROCESS FOR FIXING OR RECOVERING CHLORINE. EDWIN O. BARSTOW, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Oct. 30, 1926. Serial No. 145,374. 3 Claims. (Cl. 23—219.)

2. In a method of controlling chlorine where electrolyzing fused compounds yielding a metal and a gas at elevated temperature, the steps which comprise exhausting such chlorine while admitting air thereinto and treating the resulting mixture with an agent for selectively retaining the chlorine.

1,781,831. RECIPROCATING ENGINE. HERBERT JAMES ALDERSON, Toronto, Ontario, Canada, assignor of forty-five per cent to James Legge, Lampton Park, Ontario, Canada. Filed Jan. 9, 1929. Serial No. 331,243. 4 Claims. (Cl. 123—50.)

4. In reciprocating engines, stationary rings having rods journalled on a crankshaft and having exhaust ports,

a female piston forming combustion chambers on either side and slidable in said rings and connected to crank



throws on said crankshaft and having inlet ports, and male pistons reciprocating in said chambers and connected to an opposite crank throw on said crankshaft.

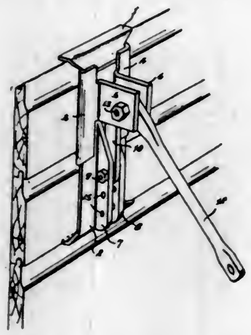
1,781,832. WEARING APPAREL. ERSWELL V. CRENSHAW, St. Louis, Mo., assignor to Langenberg Hat Company, St. Louis, Mo., a Corporation of Missouri. Filed May 31, 1928. Serial No. 281,715. 1 Claim. (Cl. 2—10.)



A head covering provided with a brim and having in combination therewith, a visor for both eyes of the wearer of the head covering formed of a single section of resilient sheet material, said section of material being transparent throughout its length from end to end thereof and being provided with a continuously bowed lower edge, and an elongated strap of flexible fabric securing the visor directly to the brim of the head covering, said visor being located at the front portion only of said head covering, said flexible strap serving also as a sweat band for the head covering and said visor being of a height permitting same to be disposed in an inoperative position within the head covering without folding.

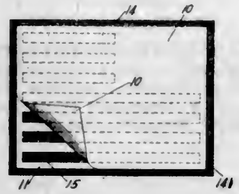
1,781,833. SIDING CLAMP. FREEMAN BAKER CUMMER, Carman, Manitoba, Canada. Filed Apr. 15, 1926, Serial No. 102,276, and in Canada Apr. 24, 1925. 3 Claims. (Cl. 255—17.)

1. A siding clamp comprising an anchoring jaw provided with a flat extending shank positioned at right angles to the jaw, a clamping jaw provided with a flat extending shank positioned at right angles to the clamping jaw and fitted with marginal guides slidably receiving the shank of the anchoring jaw, a pair of opposing



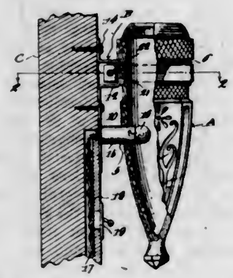
spaced lugs carried by the guides, an operating lever pivotally carried by the lugs and a link pivotally connecting the lever to the shank of the anchoring jaw.

1,781,834. STENCIL SHEET. LOUIS F. D'AUTREMONT, Dayton, Ohio, assignor of one-half to A. S. Daneman, Dayton, Ohio. Filed May 6, 1929. Serial No. 360,754. 6 Claims. (Cl. 101—127.)



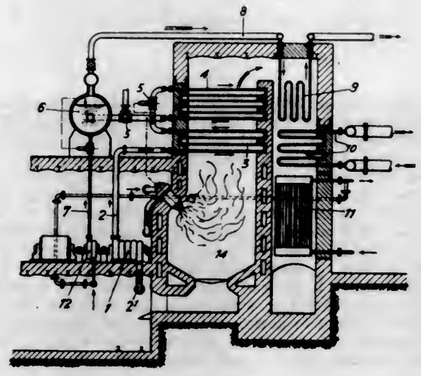
1. A stencil sheet for reproducing multicolored designs comprising a transparent backing sheet and a transparent film carried by but removable from said backing sheet, whereby portions of the film corresponding to selected portions of the design may be cut away and removed from the backing sheet.

1,781,835. ILLUMINATED FLOWER VASE. FRANK C. EMMES and HENRY J. KNOPP, Brussels, Wis. Filed June 12, 1929. Serial No. 370,374. 4 Claims. (Cl. 240—2.)



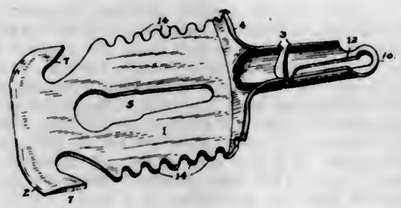
3. The combination with a flower vase having an opening therein at a point intermediate its ends, of a supporting bracket, means for securing the bracket to a support, the bracket having a substantially U-shaped arm struck out from one face thereof, a lamp socket secured to the bracket and projecting therefrom beyond the arm for the reception into the opening, an incandescent lamp disposed completely within the vase and connected with the socket, and a split band encircling the vase adjacent to the upper end thereof and extending through the U-shaped arm.

1,781,836. PLANT FOR THE GENERATION OF HIGH-PRESSURE STEAM. FRITZ FLATT, Zurich, Switzerland, assignor to the Firm Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie., Zurich, Switzerland. Filed July 19, 1926, Serial No. 123,469, and in Switzerland July 22, 1925. 6 Claims. (Cl. 122—31.)



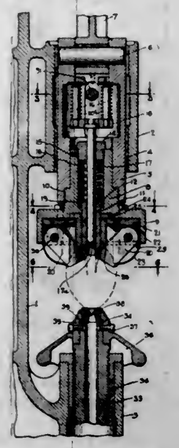
1. A plant for the generation of superheated high pressure steam, comprising in combination, a furnace, a coil of pipe arranged in the stream of hot fire gases of the furnace, a feed pump to feed water under high pressure to said coil and in which the water is converted into steam and superheated, a water reservoir into which the superheated steam from said coil is led to evaporate a part of the water in said reservoir, means to feed water directly into said reservoir, a superheater connected to said reservoir, and means to lead steam from said superheater to a steam consuming device.

1,781,837. COMBINATION KITCHEN UTENSIL. JOHN G. FUNK, Cleveland, Ohio. Filed Jan. 17, 1929. Serial No. 333,170. 3 Claims. (Cl. 294—32.)



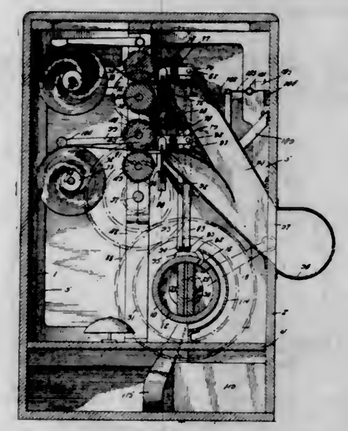
1. A kitchen utensil comprising a flat plate portion adapted to be inserted under pots and the like, the side of the plate portion being cut away to form hooks to engage the bails of pots and the like, the plate portion being provided with a slotted opening to grasp the knobs of lids and the like, and a handle connected to the rear end of the plate portion.

1,781,838. MACHINE AND PROCESS FOR CRACKING NUTS. WILLIAM E. GIESECKE, New York, N. Y., assignor to Charles T. Wilson Company, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 12, 1927. Serial No. 232,842. 12 Claims. (Cl. 146—10.)



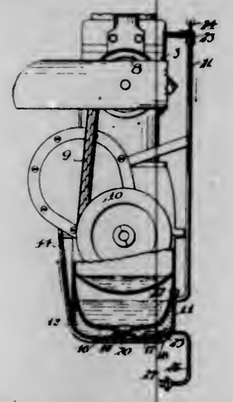
1. The method of cracking nuts with a central resistance column, which consists in supporting the nut by grasping it at the ends of the column, and simultaneously segregating one end of the central column and splitting the outer wall of the nut from the segregated end of the column toward the other end.

1,781,839. VENDING MACHINE. RALPH I. GRAVES, Washington, D. C., assignor to Mildred Van Sweringen Graves, Chevy Chase, Md. Filed May 11, 1925. Serial No. 29,498. 14 Claims. (Cl. 164—48.)



8. In a vending machine, in combination with a delivery table and clamping mechanism, a tapering blade mounted in a guideway diagonal with respect to the delivery table, the blade bearing against the edge of the table, and means connected with the blade for imparting a diagonal upward movement thereto.

1,781,840. CRANK-CASE-OIL HEATER. THOMAS P. HANNEGAN, St. Paul, Minn. Filed Apr. 14, 1928. Serial No. 269,921. 1 Claim. (Cl. 123—196.)

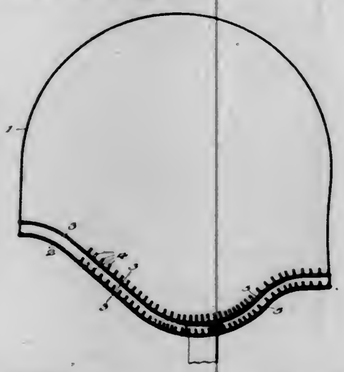


A crankcase oil heater for water cooled motors comprising a pan connected beneath the crankcase of said motor and spaced therefrom to provide a water jacket between said crankcase and said pan, said pan having an indentation therein about an oil drain opening said pan being connected to said crankcase about said opening to form a hermetically sealed joint therewith, a water passage from said water jacket to an upper portion of the water cooling system of said motor, and a second water passage from said water jacket to a lower portion of the water cooling system of said motor.

1,781,841. INSECTICIDE AND METHOD OF PRODUCTION. ALBERT HARTZELL, Yonkers, N. Y., assignor to Boyce-Thompson Institute for Plant Research, Inc., Yonkers, N. Y., a Corporation of New York. Filed July 9, 1926. Serial No. 121,497. 10 Claims. (Cl. 167—20.)

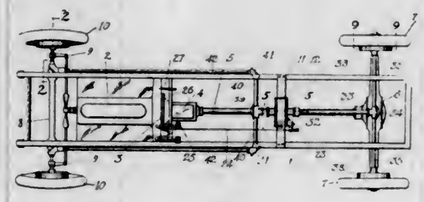
8. An insecticide consisting essentially of minute particles of colloidal sublimed sulphur in an emulsion of fish oil soap and water.

1,781,842. APPAREL. THOMAS J. HOWLAND, Long Branch, N. J. Filed May 5, 1930. Serial No. 449,800. 5 Claims. (Cl. 2—63.)



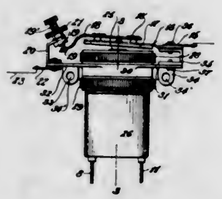
1. An article of apparel comprising a main portion and an elastic body-gripping edge portion, said edge portion having on the inside a relatively narrow, peripherally-extending rib for maintaining a substantially watertight seal between the edge portion and the body of the wearer, and bracing means for maintaining the rib in upright position, said braces being of a height less than the rib at corresponding places.

1,781,843. MOTOR-VEHICLE BRAKE MECHANISM. MERRILL M. INNIS and ORVILLE S. WARD, Columbus, Ohio. Filed Aug. 22, 1929. Serial No. 387,627. 8 Claims. (Cl. 188—10.)



1. In a motor vehicle, a frame, ground engaging wheels carried by the frame, a motor, and motion transmitting mechanism between said motor and at least certain of said wheels, of a brake mechanism comprising an internal gear fixed for rotation in connection with each of the ground engaging wheels, a pinion in engagement with the teeth of each of said gears, shafts carried by said frame and mounted independently of the drive mechanism for said wheel, said shafts being rotatably connected with said pinions, a main brake shaft rotated by said first named shafts in unison with said wheels, and a central brake unit carried by said frame and operative through manual control to govern the rotation of said wheels independently of said drive mechanism by applying rotation retarding forces to said brake shaft.

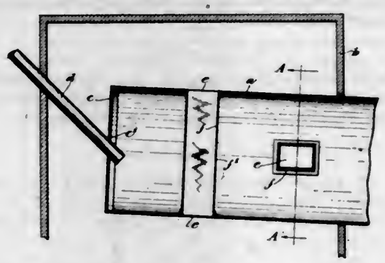
1,781,844. DEVICE FOR CONTROLLING THE VOLTAGE OF STORAGE BATTERIES. EDWARD B. JACOBSON, Pittsfield, Mass. Filed July 12, 1927. Serial No. 205,131. 3 Claims. (Cl. 175—336.)



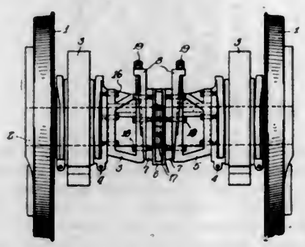
1. A device for the purpose described, comprising an electromagnet, an armature operated by the electromagnet, a magnetic shell enclosing the magnet, the magnetic shell being formed with externally located threads, threaded rings located on the threads of the shell, a slidable collar located between the rings, said rings being for the purpose of adjusting the collar and armature on the shell, whereby the positions of the collar will vary the air gap between the armature and the pole of the electromagnet and whereby the threaded rings operate to firmly lock the collar in its adjustable positions.

1,781,845. ROTARY CEMENT-BURNING KILN. AXEL V. JENSEN, Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y., a Corporation of New Jersey. Filed Apr. 25, 1928, Serial No. 272,631, and in Great Britain Nov. 28, 1927. 2 Claims. (Cl. 222—7.)

1. The combination of a rotary cement burning kiln, a dust chamber about the feed end of the kiln and a slurry chute, the kiln having an end plate with a central opening for the entrance of the slurry chute, and having in its circumferential wall in the zone of the dust chamber an opening for the escape of substantially all of the products of combustion, and a guard within the kiln to prevent the escape of slurry through such opening in the circumferential wall.

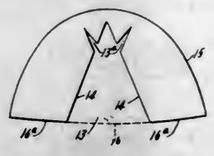


1,781,846. ADJUSTABLE LINER. WILLIAM H. JOHNSTON, Proctor, Minn. Filed May 18, 1927. Serial No. 192,374. 14 Claims. (Cl. 105—79.)



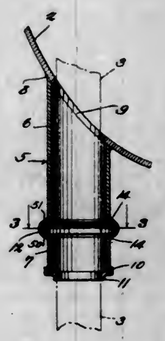
1. In a device of the character described, the combination of a locomotive frame, a filler block, a thrust bearing, and a U-shaped member adapted to be interposed between the filler block and thrust bearing to eliminate the axle lateral.

1,781,847. LIFT FOR SEPARATELY-FORMED ATTACHABLE HEELS. SYDNEY C. KAYES, Brockton, Mass., assignor to Montello Heel Company, Brockton, Mass., a Corporation of Massachusetts. Filed Jan. 31, 1930. Serial No. 424,780. 2 Claims. (Cl. 36—34.)



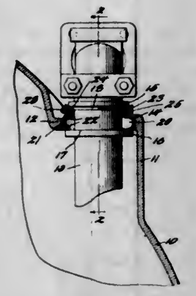
1. As an article of manufacture, a heel lift blank made from a box-toe skiving and convertible into an operative heel lift, said blank having a curved marginal edge, and a breast edge, the outer breast corners of said blank being a greater distance apart than when the blank is formed into a heel lift, the thickness of the blank gradually decreasing from said edges to the center, a portion of the blank being cut out to form a V-shaped recess having a wide mouth leaving two spaced apart sections extending from the heel end to the breast edge, each of said sections converging widthwise from the breast toward the heel end, and at the breast, said sections being of such width so that when brought together, the breast corners of the blank will approximately coincide with the respective breast corners of the heel lift into which the blank is to be formed.

1,781,848. JOINT. JOHN THOMAS KELLY, Waco, Tex. Filed Mar. 12, 1928. Serial No. 261,045. 1 Claim. (Cl. 285—30.)



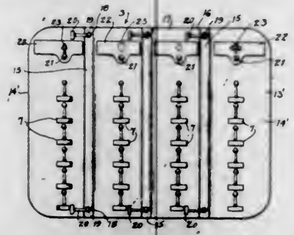
The combination with the boiler shell of a locomotive engine, and a steam pipe entering the shell: of a tubular casing about the pipe, one end of the casing being hermetically closed about the pipe, and the opposite end of the casing being connected to the shell, and an annular expansible intermediate piece fashioned from a metal which is more expansible than the casing, the intermediate piece being U-shaped in cross section and being arranged in substantially concentric relation with respect to the axis of the casing, the U-shaped piece being interposed in the casing, and separating the casing into parts, the inner end of one part of the casing being secured directly to one of the side walls of the intermediate piece, and the inner end of the other part of the casing being secured directly to the other side wall of the intermediate piece.

1,781,849. SMOKE-ARCH SEAL. WILLIAM F. KIESEL, Jr., Altoona, Pa. Filed July 11, 1927. Serial No. 205,019. 9 Claims. (Cl. 285—30.)



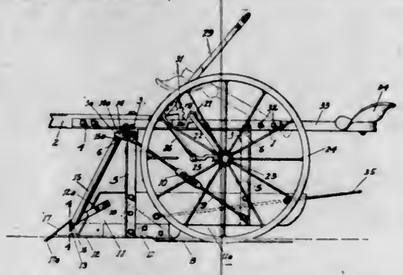
1. In a locomotive, in combination, a smoke-box having an opening through the wall thereof, a pipe passing loosely through said opening and subject to longitudinal and lateral movements due to temperature changes, a pair of circumferential flanges on said pipe spaced one on each side of said smoke-box wall, an annular seal of resilient material the outer surface of the cross section being U-shaped, the base of the U having a pressed fit into said opening, the inner edges of said seal being spaced from said pipe so that one of said flanges can pass therethrough on assembly, one side of said seal abutting one of said flanges, a sectional wedge ring between the other side of said seal and said other flange and means to contract said wedge ring to form an airtight fit between said seal and smoke-box and between said seal and flange.

1,781,850. BRIDGE-GAME ACCESSORY. LILLIAN RADCLIFF LADD, Mobile, Ala. Filed Aug. 22, 1929. Serial No. 387,719½. 4 Claims. (Cl. 273—150.)



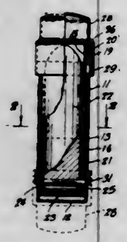
2. A bridge game accessory comprising a hand holder, means for holding and spacing the cards including a plurality of spring clips, each clip having on its free end an outwardly directed card spacing member, said clips arranged one below the other in a series of columns and at such distance apart that the spacing member of one clip engages the card held by the clip next below, each column adapted to hold and display a suit of cards in tiers according to sequence and numerical value.

1,781,851. BEAN CUTTER. GREGORY LANG, Yuba City, Calif. Filed Jan. 21, 1928. Serial No. 248,360. 6 Claims. (Cl. 55—60.)



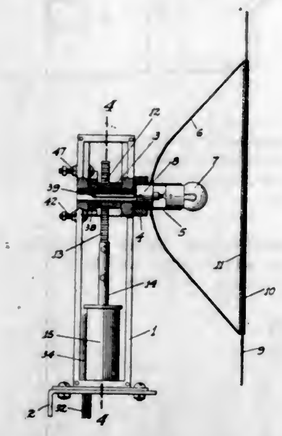
6. In a bean cutter, a frame, side runners below and supported from the frame, ground engaging tips on the forward ends of the runners, tension rods secured to and depending from the frame, means securing the lower ends of the rods in rigid connection with the tips, and rollers disposed about the rods.

1,781,852. LIP-STICK HOLDER. ANKER S. LYHNE, Bridgeport, Conn. Filed Dec. 20, 1929. Serial No. 415,416. 10 Claims. (Cl. 206—56.)



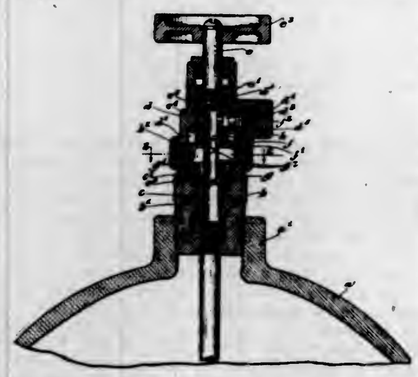
1. In a lipstick container, an outer casing, a stationary sleeve in the casing, a rotary sleeve embraced by the stationary sleeve, one of said sleeves having a longitudinal slot and the other a spiral slot and a longitudinally movable cosmetic carrier in said rotary sleeve carrying a lateral projection in said slots, said rotary sleeve being open at its upper end for protrusion of a cosmetic stick carried by the carrier and provided with means at said open end accessible outside the casing by which said sleeve may be rotated to shift the carrier.

1,781,853. DIRECTION SIGNAL FOR AUTOMOBILES. JOSEPH F. LYNCH, Stockton, Calif. Filed Dec. 27, 1926. Serial No. 157,111. 1 Claim. (Cl. 177—327.)



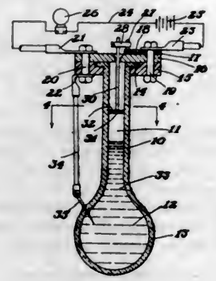
In a direction signal, a lamp housing, an open-ended sleeve projecting through the housing and secured intermediate its ends thereto, a rotatable hollow shaft axially alined with the sleeve outwardly of the housing, said shaft being of smaller diameter than the sleeve, a socket on the end of the shaft adjacent the sleeve and into which the portion of the sleeve outwardly of the housing projects, a terminal plug in the sleeve abutted against the adjacent end of the shaft; the sleeve being also arranged to receive the base of a lamp-bulb from its ends inside the housing so that said base will engage the plug and a circuit wire in the shaft leading to the plug.

1,781,854. RELEASE MECHANISM FOR FIRE-EXTINGUISHING SYSTEMS. DANIEL MAPES, Mamaroneck, N. Y., assignor to Walter Kidde & Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 20, 1928. Serial No. 307,075. 9 Claims. (Cl. 221—73.5.)



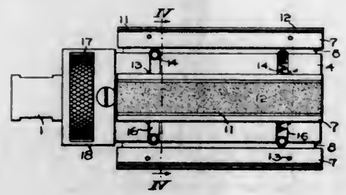
6. A valve for containers of a medium under pressure comprising a valve body secured to the container, a frangible disc carried by the valve body and confining the medium within the container, a cutter for rupturing the disc, means to move the cutter with respect to the disc, an outlet for the medium, a valve carried by the valve stem between the frangible disc and the outlet, means to close the valve by movement of the cutter away from the disc, and means normally preventing the escape of the medium when the valve is closed and adapted to relieve the pressure within the container upon the rupturing of the frangible disc due to an excess pressure within the container.

1,781,855. FIRE-ALARM DEVICE. HARRY MICHELMAN, Brooklyn, N. Y. Filed Apr. 9, 1928. Serial No. 268,496. 1 Claim. (Cl. 200—141.)



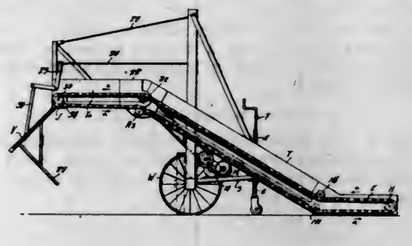
A fire alarm device for closing an electrical circuit and ringing a bell upon the rising of temperature comprising a well, a reservoir communicating with said well, a liquid in said well and reservoir adapted to increase its volume upon rise of temperature of the surrounding atmosphere, a perforated flange, a stem suspending said flange, a tapering needle piercing the wall of said reservoir and entering into said reservoir forming one terminal of the circuit, a bifurcated arm engaging said stem, a stud, said arm projecting from said stud, said stem entering into said bifurcated end of said arm, and a bus bar forming a current-carrying member having said stud secured thereon.

1,781,856. CYLINDER HONING DEVICE. FREDERICK C. MOSER, East Brook, Pa. Filed Feb. 26, 1929. Serial No. 342,690. 5 Claims. (Cl. 51—184.3.)



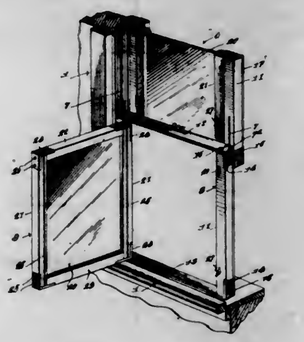
1. In a device for the purpose set forth, the combination of a mandrel having inclined channels spaced thereabout, tool holders correspondingly inclined at their base and engaging within the said channels, a honing tool secured in each of said holders, a sleeve within which the mandrel is slidably fitted and provided with openings through which said tool holders extend into the mandrel channels, and a nut on said spindle cooperating with said sleeve whereby rotative adjustment of said nut effects a longitudinal sliding movement of the sleeve on the spindle and radial adjustment of the tool holders therethrough.

1,781,857. APPARATUS FOR SCREENING, SORTING, AND HANDLING MATERIAL. BYRON W. PAPE, Salt Lake City, Utah. Original application filed Mar. 21, 1925, Serial No. 17,224. Divided and this application filed May 12, 1926. Serial No. 108,623. 6 Claims. (Cl. 209—416.)



1. In combination with a conveyor having an adjustable discharge portion, an apparatus for sorting material comprising a bell crank mounted on the discharge portion, a screening member supported by the bell crank, means to adjust the inclination of the screening member, and means coacting with a fixed portion of the conveyor and the bell crank for operating the screening member.

1,781,858. SLIDING AND SWINGING WINDOW. LEONARD B. PAUL, Williamstown, W. Va., assignor, by direct and mesne assignments, of one-third to Alice Omeara Paul, Williamstown, W. Va., and two-thirds to Louis G. Zachos, Chicago, Ill. Filed Aug. 21, 1928. Serial No. 301,065. 1 Claim. (Cl. 20—48.)



In a window construction, a sliding window sash comprising an outer frame including side rails and upper and lower metal straps bridging the upper and lower ends of the side rails having oppositely extending right angularly disposed feet imbedded in the outer faces of the rails and flush therewith, a swinging inner glass panel carrying frame received in the outer frame, hinges connecting one side of the inner frame to one side rail of the outer frame, stop strips secured to the outer side faces of the side rails and extending inwardly of the same and in the path of movement of the inner frame for limiting the swinging movement thereof in one direction, the inner swinging frame having the outer side faces thereof provided with longitudinally extending grooves, V-shape ribs on the outer longitudinal edges of the stop strips for reception in the grooves when the swinging frame is in abutting engagement with the stop strips, and latches carried by the side rails of the outer frame for engaging the inner faces of the inner swinging frame to hold the same against movement in abutting engagement with said stop strips.

1,781,859. METHOD OF MAKING HYDROGEN PEROXIDE. JAMES B. PIERCE, Jr., Charleston, W. Va., assignor to Barium Reduction Corporation, Charleston, W. Va., a Corporation of Delaware. Filed Dec. 14, 1927. Serial No. 240,081. 5 Claims. (Cl. 23—207.)

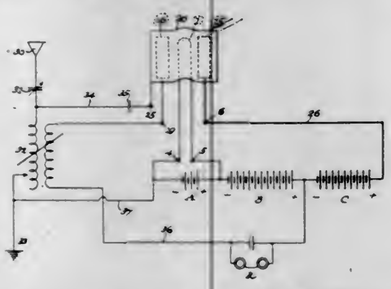
1. The herein described process consisting essentially of adding strontium peroxide to a solution of a mixture of acids one of which forms a relatively insoluble strontium salt and the other of which forms a relatively soluble strontium salt, the second acid being present in a small amount, to form a relatively insoluble strontium salt and hydrogen peroxide.

1,781,860. COMBINATION LUGGAGE CARRIER AND COLLAPSIBLE BOAT. EDWARD F. REESE, South St. Paul, Minn. Filed June 27, 1930. Serial No. 464,209. 6 Claims. (Cl. 9—2.)



5. A collapsible boat comprising a number of quadrangular box-like sections all opening upwardly, means holding said sections rigidly in alinement, suitably tapered end sections securable rigidly one to each of the outer ends of the quadrangular sections, one of said end sections also opening upwardly and formed larger than the other end section to receive the latter within it, means for laying the thus combined end sections within one of the end quadrangular sections but in non-removable relation therewith.

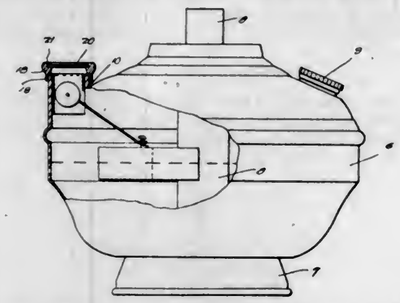
1,781,861. RADIO RECEPTION APPARATUS. MYRON J. RITTENHOUSE, Cleveland, and OSCAR V. MAURER, East Cleveland, Ohio; said Maurer assignor to said Rittenhouse. Filed Jan. 14, 1925. Serial No. 2,297. 7 Claims. (Cl. 250—27.)



1. A radio reception tube comprising the combination with an evacuated vessel of an electron emitting member inclosed therein, two companion electrodes inclosed within said vessel and adapted between them to absorb the electrons emitted by the first electrode, a conductive plate supported in inductive relation as regards one of said electrodes and adapted to bind an induced charge thereon, means for maintaining said conductive plate at a fixed potential of substantial magnitude, means for conveying the oscillations to be detected and amplified to the electrode having the induced charge, and a receiving circuit containing said electron emitting member and the remaining electrode.

1,781,862. LAMP GAUGE. OSCAR SCHNASER, Milbank, S. Dak. Filed Jan. 28, 1930. Serial No. 424,116. 2 Claims. (Cl. 116—118.)

1. In combination with a lamp fuel reservoir, having a vertically extending air compartment, said fuel reservoir having an open neck therein, a cap extending into the neck and having an opening in its upper wall and a pair of aligned openings in its side walls, said cap further having a slot in its side wall between the openings, a closure cap having diaphanous panel across its upper face supported at the upper end of the neck over the first mentioned cap, a float disposed in the reservoir in slidable abutment with



the air compartment, a drum having oppositely extending trunnions journaled in said pair of openings with its axis in parallelism with the top of the cap so as to register indicia on the peripheral face thereof with the yoke in the cap, a rod rigidly secured at one end to the periphery of the drum and at its other end movably coupled with the float for transmiting movement of the float to the drum.

1,781,863. CUTTING TOOL. WILLIAM WALTER SHOEMAKER, New York, N. Y. Filed Mar. 22, 1928. Serial No. 263,756. 3 Claims. (Cl. 164—124.)

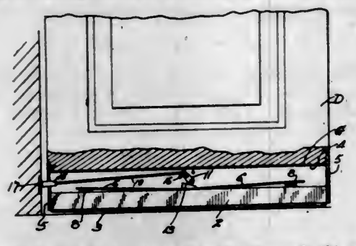


1. A rotary cutting tool comprising a cutting portion of arcuate cross section and having a semi-cylindrical outer surface, said cutting portion having a lateral cuting edge parallel to the axis of the cylindrical surface, an end cutting edge in a plane perpendicular to the axis of the cylindrical surface and a curved intermediate cutting edge joining the end cutting edge and the lateral cutting edge.

1,781,864. DRAFT AND NOISE STOP. CLAYTON F. WYATT, Los Angeles, Calif., assignor, by mesne assignments, of one-half to Pauline S. Seccombe. Filed Mar. 27, 1929. Serial No. 350,288. 1 Claim. (Cl. 20—68.)

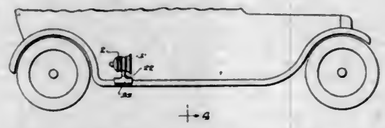
A draft and noise stop strip comprising an elongated shell having an open bottom and adapted to be sunk in a grooved-edge carrying part, an inverted channel section slidably mounted for rise and fall in the shell and having

a packing exposed at its bottom, a bridge-like cam fixed medially to the top of the shell and a leaf spring secured under the bridge and having outwardly directed free ends, cross-hangers in the shell above the packing section and on which said spring ends rest and which form top stops for the channel section, a lever pivoted medially of its length and having on its lower end a roller engaging the



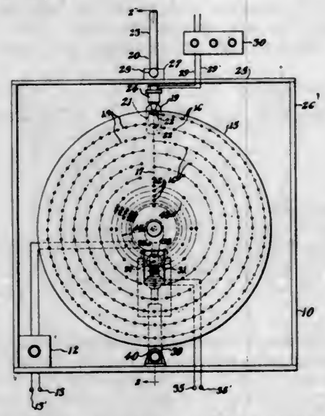
top of the cam to be actuated thereby through the spring; said lever being connected to and outwardly thrusting, a push rod, said rod projecting from the shell to engage a fixed abutment when the carrier is moved to a given position and whereupon the packing device is bodily depressed to effective position; the spring having the dual function of lifting the packing and of projecting the push rod.

1,781,865. VEHICLE LAMP. JOHN F. ANIOL, Chicago, Ill. Filed Apr. 23, 1928. Serial No. 272,168. 5 Claims. (Cl. 240—8.2.)



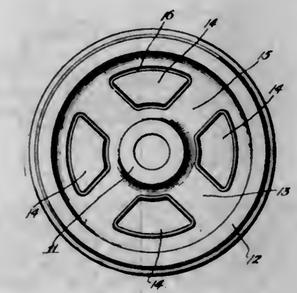
3. A vehicle lamp comprising a casing formed of tough resilient material having an open end provided with a recess around its inner wall spaced away from the periphery at the open end thereof and a reflector of concave shape with a flaring circular edge fitting into said recess to position it in said casing and to strengthen the open end thereof.

1,781,866. SPEED INDICATOR AND VARIABLE SYNCHRONIZER. ROBERT H. BAHNEY, Massillon, Ohio, assignor of one-half to Hurxthal F. Frease, Canton, Ohio. Filed Nov. 30, 1928. Serial No. 322,927. 8 Claims. (Cl. 178—6.)



1. A variable speed indicator and synchronizer including a rotating body, an indicator of time intervals adjacent the body, and a plurality of means on the body each adapted for cooperating with the indicator for emitting a characteristic signal when the body is rotating at a desired speed, and for emitting different signals when the body is rotating at speeds above or below the desired speed, and each cooperating means on the rotating body including a set of apertures therein, the apertures of each set being adapted for traversing the indicator.

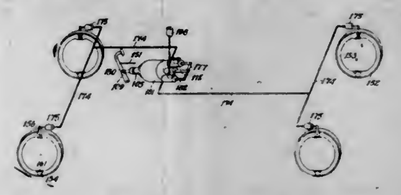
1,781,867. CAR WHEEL. FRANK B. BELL, Pittsburgh, Pa., assignor to Edgewater Steel Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 4, 1928. Serial No. 297,558. 6 Claims. (Cl. 295—29.)



1. A car wheel, comprising a central hub, a peripheral flanged rim, and a web connecting said hub and rim, said web being provided with outstanding ribs upset from the material of the web to circumscribe isolated web areas.

2. A car wheel, comprising a central hub, a peripheral flanged rim, and a web connecting said hub and rim, areas of said web having continuous circumscribing ribs upset from the metal within the ribs outwardly to form the ribs.

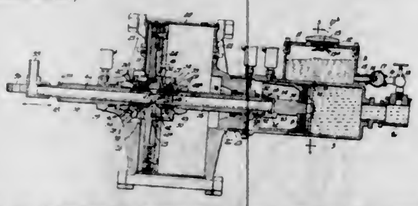
1,781,868. HYDRAULICALLY-ACTUATED BRAKE MECHANISM. CALEB S. BRAGG, Palm Beach, Fla., and VICTOR W. KLIESRATH, Port Washington, N. Y., assignors to Bragg-Kliesrath Corporation, Long Island City, N. Y., a Corporation of New York. Filed June 26, 1924, Serial No. 722,485. Renewed Oct. 13, 1928. 18 Claims. (Cl. 188—155.)



18. In a hydraulically actuated brake mechanism, the combination with a plurality of pressure cylinders, each having a pressure piston therein, a separate hydraulic system connected with each of said pressure cylinders, including an actuating piston, a cylinder, and liquid conducting connections therefrom to the pressure cylinder, each pressure cylinder being at all times in free communication with its connected hydraulic system, and provided with a port on its upper side adapted to be opened by the pressure piston when in retracted position, and to be closed during the power stroke of the pressure piston, an equalizing passage connecting the said ports of said pressure cylinders, and communicating freely in both directions with said cylinders when the pressure pistons are retracted, and a vented reservoir located above said equal-

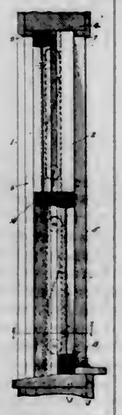
izing passage and communicating freely therewith at all times, to keep the several pressure cylinders and their hydraulic systems filled, to vent occluded air from said systems, and to compensate for the expansion and contraction of the liquid in each pressure cylinder, and the hydraulic system connected therewith under variations in temperature.

1,781,869. HYDRAULICALLY-ACTUATED BRAKE MECHANISM. CALEB S. BRAGG, Palm Beach, Fla., and VICTOR W. KLIESRATH, Port Washington, N. Y., assignors to Bragg-Kliesrath Corporation, Long Island City, N. Y., a Corporation of New York. Filed Aug. 20, 1925, Serial No. 51,300. Renewed Oct. 13, 1928. 14 Claims. (Cl. 188—152.)



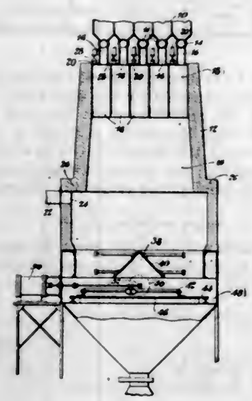
4. In a hydraulic brake system, the combination with a main hydraulic cylinder, a main hydraulic piston working therein, said cylinder being provided with a venting and filling port on its upper side, adjacent to the position of the piston when in retracted position, and adapted to be closed by the first part of the active stroke of the piston, a liquid reservoir located above said cylinder and communicating with said port by means providing a body of oil of greater horizontal diameter than said port, adjacent thereto, to permit the escape of occluded air through said liquid to the surface of the liquid in the reservoir, and prevent said air from being drawn back into said cylinder in maintaining the system in filled condition, a hydraulic brake actuating cylinder, a piston therein, brake mechanism connected with said piston, pipe connections extending from the main hydraulic cylinder to said brake actuating cylinder, a pipe connecting said reservoir with the system adjacent to the discharge end of said main hydraulic cylinder, for filling or bleeding the system, a check valve in said pipe for preventing the return of liquid therethrough to the reservoir, a shut off valve in said connecting pipe, and means for operating the main hydraulic piston.

1,781,870. WINDOW HOLDER. CHARLES J. CHRISTOPHERSON, Oak Park, Ill. Filed July 29, 1929. Serial No. 381,783. 1 Claim. (Cl. 292—76.)



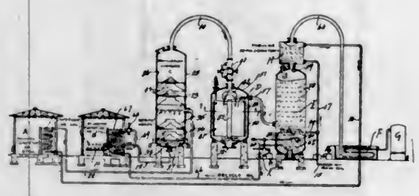
In a device of the class described, a window frame, upper and lower window sashes each having recesses in their lateral edges slidably mounted in said frame, a guide member mounted on the side of said frame comprising a channel for retaining said sashes in spaced relation, a pair of belts movably mounted in said channel, each extending outwardly on opposite sides thereof, means on each belt connected with one of said sashes, a pair of resilient members on said channel frictionally engaging said belts for holding said sashes in adjusted position.

1,781,871. METHOD AND APPARATUS FOR DISTILLING SOLID CARBONACEOUS MATERIAL. HENRY L. DOHERTY, New York, N. Y. Filed May 8, 1925. Serial No. 28,866. 10 Claims. (Cl. 202—15.)



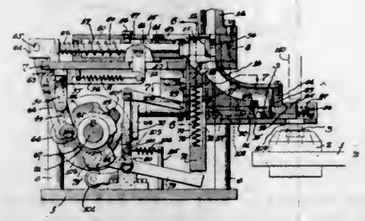
1. A method of controlling distillation of solid volatile-containing carbonaceous fuel which comprises passing said fuel downwardly in a column through a shaft retort, passing a current of hot non-combustion-supporting gas upwardly through the fuel column to distil the fuel by heat transfer therewith, and removing the mixture of gas distilling medium and volatile products evolved from any portion of the fuel selectively from the top of the fuel column so as to force the gas distilling medium to distribute itself in uniform concentrations through each cross section of the fuel column during its upward passage therethrough.

1,781,872. PROCESS FOR MAKING MOTOR FUEL. BENJAMIN FIXMAN, Bartlesville, Okla. Filed Nov. 18, 1926. Serial No. 149,195. 3 Claims. (Cl. 196—57.)



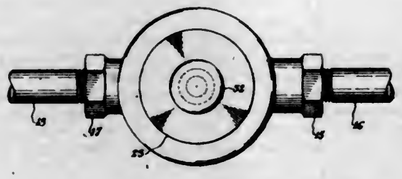
1. The process of producing hydrocarbons of substantially the character of motor fuels which consists in heating a raw heavy mineral oil to the conversion temperature under pressure, heating a recycle oil, intimately contacting the heated heavy mineral oil and the reaction products resulting therefrom with the separately heated recycle oil, releasing the resultant hydrocarbon mixture at a reduced pressure which will enable liquid components of the mixture to vaporize, removing carbon from the vapor by electromagnetic treatment, and separating the hydrocarbons of the desired characteristics from those requiring recycling to produce the recycle oil above mentioned.

1,781,873. AUTOMATIC LOADING DEVICE. FELIX HAMROL, Detroit, Mich., assignor, by mesne assignments, to Motor City Sales Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 31, 1929. Serial No. 336,414. 9 Claims. (Cl. 10—162.)



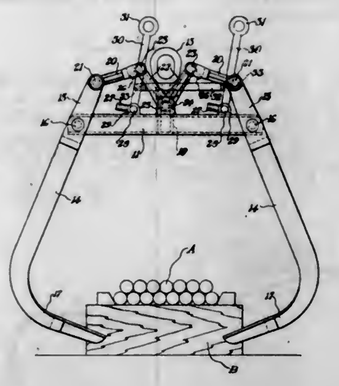
3. In a device for loading articles into a machine holding means for retaining an article, a carrier movable towards said holding means, grasping means carried by said carrier and yieldably held thereby, said grasping means being shaped to receive a given end of the article and to exclude the other end, an ejector adapted to release the article from said grasping means, a delivery chute beneath said holding means, and a partition slidable in the mouth of said chute and adapted to divide the same into two compartments, one of which is between said holding means and ejector, said ejector being timed to discharge the article from said grasping means into said compartment, said partition being actuated and timed to engage the discharged article and guide it into said chute.

1,781,874. OIL STRAINER. ROBERT C. HOPKINS, Alliance, Ohio. Filed Nov. 2, 1928. Serial No. 316,776. 3 Claims. (Cl. 210—165.)



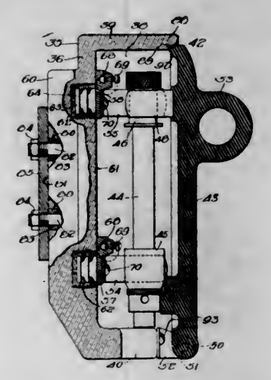
1. An oil strainer including a housing having inlet and outlet openings, a valve seat between the inlet and outlet openings and having a central opening many times larger than the area of the inlet opening forming the only communication between the inlet and outlet, a spring pressed disk valve having a cutting edge normally seated upon the valve seat and adapted to be raised a predetermined distance by pressure of the incoming oil so as to permit passage of the oil between the cutting edge and valve seat and prevent passage of sludge in the oil, and a sludge chamber beneath the valve seat.

1,781,875. PICKLING TONGS. ROBERT C. HOPKINS, Alliance, Ohio. Filed June 22, 1929. Serial No. 372,956. 7 Claims. (Cl. 294—106.)



1. Tongs including a supporting frame, a pair of jaws hinged upon said frame, toggle levers connected to the jaws for automatically locking the jaws in closed position, and a rocker shaft for releasing the jaws to permit them to open.

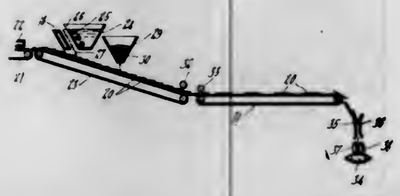
1,781,876. FUSE BOX. WILLIAM D. KYLE, Milwaukee, Wis., assignor to Line Material Company, South Milwaukee, Wis., a Corporation of Delaware. Filed July 16, 1929. Serial No. 378,785. 1 Claim. (Cl. 200—138.)



A device of the class described comprising a fuse box adapted to be exposed to the weather for housing a high voltage fuse and consisting of the combination of a unitary body member comprising a back wall member from which extends forwardly an integral rim defining substantially parallel sidewalls and a top wall leaving the front and bottom open, said back member and rim being formed as an integral unitary piece of dense wet process porcelain the same being throughout completely impervious to moisture and to metallic vapors generated by the blowing of the fuse, and being non-porous throughout and of very high dielectric strength, a movable cover member loosely fitting within the front opening, the body member having an external recess and there being secured therein a supporting member to mount the fuse box in such position that the back wall is substantially vertical, the inside of the body member having a pair of recesses and there being secured in said latter recesses a pair of contact supports, and an

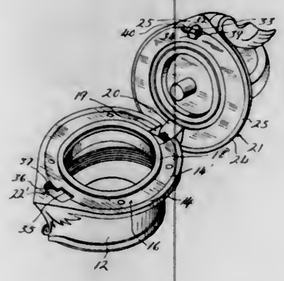
expulsion fuse mounted in the box and connected to said contact supports having an opening for the expulsion of metal vapors upon blowing of the fuse out through the bottom opening of the box, said sidewalls having perforations therethrough for the leading in of conductors to the contact supports in the box.

1,781,877. METHOD OF AND MECHANISM FOR COATING ROOFING ELEMENTS. HAROLD L. LEVIN, Passaic, N. J., assignor, by mesne assignments, to The Patent and Licensing Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 22, 1927. Serial No. 177,407. 9 Claims. (Cl. 91—68.)



9. The method of coating a roofing element, which comprises covering a portion of a face of a roofing blank with another roofing blank, covering the remaining portion of the face and adjacent edges with a coating of liquefied asphalt, and separating said blanks.

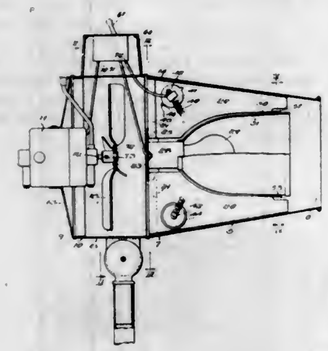
1,781,878. RADIATOR-CAP CONSTRUCTION. RUDOLPH MILLER, Detroit, Mich., assignor, by mesne assignments, to Bohn Aluminum & Brass Corporation, Detroit, Mich., a Corporation of Michigan. Filed Dec. 12, 1927. Serial No. 239,569. 15 Claims. (Cl. 220—24.)



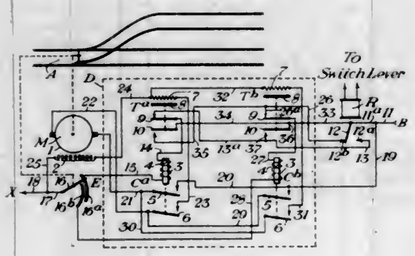
1. The combination with a filler tube of a radiator, of a ring secured to said filler tube having a recess therein, a member positioned within said recess, a closure having a part hingedly mounted upon said ring and another part rotatably mounted upon said first mentioned part, and means upon said rotatable part engageable in a portion of said recess in one rotative position of said rotatable part and engageable with said member in another rotative position thereof to subject the closure to a sealing pressure upon said ring.

1,781,879. HAIR DRIER. OLIVER NORDEN, Chicago, Ill., assignor to William Meyer, Chicago, Ill. Filed Oct. 28, 1929. Serial No. 402,890. 7 Claims. (Cl. 34—26.)

3. In a drier of the class described, a drum having an outlet casing part extending forwardly therefrom, means for projecting a body of air through said outlet casing part, radial guide vanes mounted in said casing part for preventing swirling of the body of air, a socket member mounted upon the rearward ends of said vanes, an electric light mounted in said socket and a reflector surrounding and extending forwardly from said light and surrounded by said vanes and attached thereto.



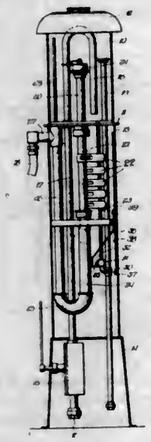
1,781,880. MOTOR-CONTROL APPARATUS. BERNARD E. O'HAGAN, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed July 5, 1929. Serial No. 375,976. 14 Claims. (Cl. 246—242.)



1. In combination, a device capable of assuming a first or a second position, an electric motor for operating said device, manually controlled means for supplying current to said motor to drive said device from said first position to said second position, and means responsive to the magnitude of the current supplied to said motor for at times deenergizing said motor and for subsequently automatically supplying current to the motor to restore said device to said first position.

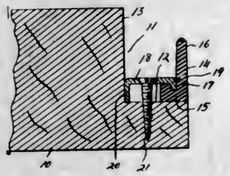
1,781,881. LIQUID-DISPENSING APPARATUS. WALTER H. PARKER, Beaver, Pa., assignor, by mesne assignments, to The Wayne Pump Company, Baltimore, Md., a Corporation of Maryland. Filed July 13, 1925. Serial No. 43,152. 4 Claims. (Cl. 221—100.)

1. In liquid dispensing apparatus, the combination of a casing for control parts of the apparatus, a measuring container, means for controlling the draining of said container including a self-closing valve and a valve operating member, said valve having means therein for positively closing said valve, said casing having a door with a portion for operating said member and valve to drain said container when the door is moved into one position and



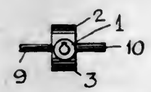
having another portion for embracing said member to prevent meddling with said member and improper operation of said valve when the door is in another position.

1,781,882. WEATHER STRIP. WILLIAM S. PRITCHARD, Detroit, Mich., assignor to Motor Products Corporation, Detroit, Mich., a Corporation of New York. Filed Apr. 25, 1927. Serial No. 186,517. 1 Claim. (Cl. 296—93.)



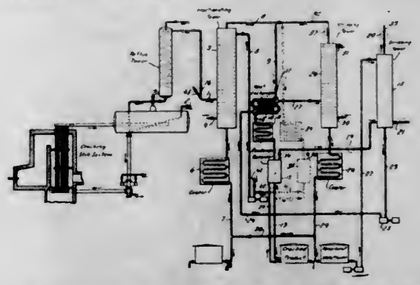
The combination with a support, of a weatherstrip having a grooved lateral extension mounted upon one wall of said support, a substantially U-shaped retaining strip having one leg engaging in said groove and the other leg spaced inwardly from the end of the extension aforesaid and engageable with the said wall of the support, and means for securing said strip to said support including a fastening element extending through the base of the strip and into the support at a point spaced from the end of the extension whereby upon clamping the strip to the support, the same pivots about the leg engageable with the wall aforesaid to firmly clamp the weatherstrip to the support.

1,781,883. AERONAUTICAL PROPELLER. SYLVANUS A. REED, New York, N. Y., assignor to The Reed Propeller Co. Inc., a Corporation of New York. Filed Oct. 29, 1929. Serial No. 403,165. 15 Claims. (Cl. 170—173.)



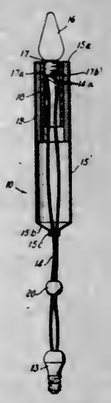
1. A metal aeronautical propeller including a hub unit and two or more blade pairs, the blade pairs in each instance being substantially hairpin shaped with the loop end of each pair bearing on and passing around said hub.

1,781,884. ART OF CRACKING HYDROCARBONS. HORACE K. ROGERS, Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y., a Corporation of Maine. Filed Oct. 11, 1928. Serial No. 311,744. 5 Claims. (Cl. 196—48.)



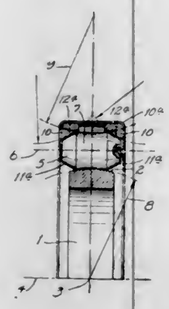
1. In cracking operations for the production of lower boiling hydrocarbon oils from higher boiling hydrocarbon oils, the improvement which comprises taking off a gas-vapor mixture from the cracking operation including vapors of the desired product, condensing the desired product therefrom, subjecting the gases and vapors remaining uncondensed to scrubbing treatment with an absorbent menstruum to absorb therein condensable constituents of the gases and vapors, passing the absorbent menstruum containing absorbed constituents from the scrubbing treatment in indirect heat exchanging relation with the gas-vapor mixture from which the desired product is condensed, vaporizing absorbed constituents from the thus heated absorbent menstruum while preventing direct contact between the gas-vapor mixture from the cracking operation and the absorbent menstruum and condensing these vaporized constituents.

1,781,885. ELECTRIC-LIGHTING DEVICE. ALBERT SADACCA, New York, N. Y., assignor to Noma Electric Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 5, 1928. Serial No. 267,522. 2 Claims. (Cl. 240—10.)



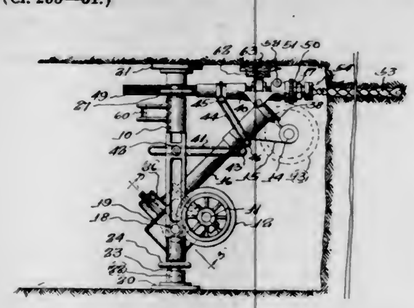
1. A decorative lighting device of the character described simulating a candle comprising a tubular member having an open end, an integral closure for the other end of said member having a central opening therein, an insulating bushing, a filler piece surrounding said bushing, said bushing and piece being snugly fitted into the open end of said member to form a reinforcement for the latter, a receptacle outlet adapted to receive an electric bulb carried by said bushing, and flexible conductor wires connected to said outlet, said wires extending through said bushing member and the closure opening as and for the purpose described and specified.

1,781,886. SELF-ALIGNING ROLLER BEARING. WILLIAM L. SCRIBNER, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Mar. 15, 1929. Serial No. 347,209. 4 Claims. (Cl. 308—212.)



1. A roller bearing comprising an annular inner bearing member convexly curved lengthwise, a circular series of bearing rollers thereon having their axes parallel with the axis of the bearing and having their body portions concavely curved to cooperate with said inner bearing member, and cup members having tapering bores constituting outer raceways, said rollers having tapering end portions to cooperate therewith.

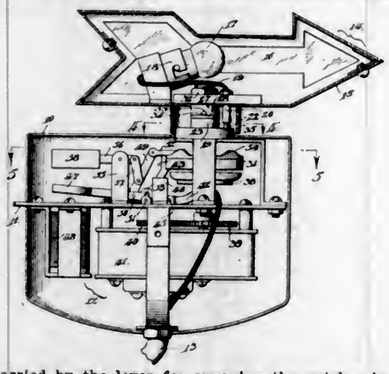
1,781,887. DRILLING MECHANISM. FREDERICK W. VODOZ, Wilmette, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 20, 1928. Serial No. 307,073. 9 Claims. (Cl. 255—51.)



5. In a portable drilling mechanism, a main frame, a pair of feet on one end of said main frame adaptable to rest on a mine bottom, a bearing member on the opposite end of said main frame adaptable to bear against a mine roof to hold said main frame in a vertical position, a motor pivotally mounted on said main frame adjacent said feet, a drilling arm pivotally mounted on said main frame on the same pivotal axis as the pivotal axis of said motor, drilling mechanism on the opposite end of said drilling arm driven by said motor, and a plurality of wheels on said main frame and said drilling arm for supporting said main frame in a horizontal position for transporting said drilling mechanism from working place to working place.

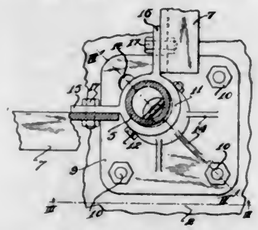
1,781,888. DIRECTION INDICATOR. FRANK WEIDLINGER, Bethlehem, Pa. Filed July 13, 1928. Serial No. 292,483. 8 Claims. (Cl. 177—327.)

1. A direction indicator including a frame, a shaft rotatable therein, a pointer on the shaft, a perimetrically notched clutch wheel on the shaft, a rotatable clutch member, means for rotating the clutch member, a lever for moving the clutch member into engagement with the clutch wheel, a



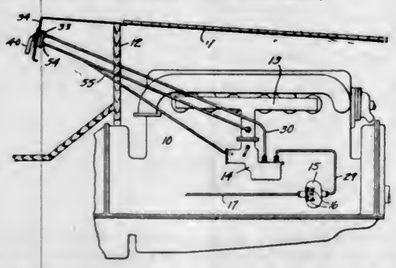
dog carried by the lever for engaging the notches in the clutch wheel, and means for actuating the lever and moving the dog into such notch engaging position.

1,781,889. FOOT CASTING FOR DERRICKS AND METHOD OF USING THE SAME. DALLAS D. WERTZBERGER Tulsa, Okla. Filed June 2, 1928. Serial No. 282,328. 1 Claim. (Cl. 189—21.)



As an article of manufacture, a unitary support for a derrick leg adapted to be fastened to the top of the plastic foundation comprising a base formed to be secured to said foundation, a slanting tube integral with said base for receiving the lower end of a slanting derrick leg, lateral ears disposed at substantially a right angle to each other and formed integral with said tube for attachment to derrick girders and the like adapted to extend directly over the base of the derrick, and a releg boss integral with said base and disposed between said ears, said lateral ears being arranged so as to guide the releg in said boss.

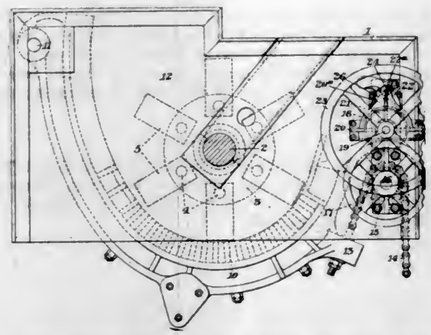
1,781,890. PRIMING DEVICE. SUMNER WILTSE, Detroit, Mich., assignor to Wiltse Appliance Company, a Corporation of Michigan. Filed Sept. 1, 1927. Serial No. 216,827. 8 Claims. (Cl. 123—139.)



1. In combination with an internal combustion engine having an intake manifold, a carbureter connected thereto,

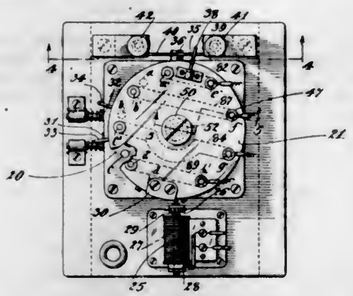
and a mechanically driven pump for delivering fuel to said carbureter, means for priming said pump comprising a passage exterior to said carbureter between the float bowl thereof and said intake manifold, and means in said passage for closing the same.

1,781,891. HAMMER CRUSHER. GEORGE W. BORTON, New Lisbon, N. J., assignor to Pennsylvania Crusher Company, New York, N. Y., a Corporation of New York. Filed July 6, 1928. Serial No. 290,801. 5 Claims. (Cl. 83—11.)



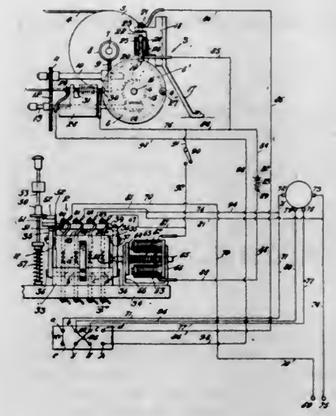
1. The combination with a crushing machine having a frame, an adjustable screen mounted therein, adjustable supporting means for one end of said screen, gearing including a driving and a driven element for actuating said adjustable supporting means, and mechanism for holding the driving element of said gearing against movement including a ratchet wheel and a pawl in engagement with said ratchet wheel, of a shear pin support for said pawl, and a bracket support carried externally of the wall of the crushing machine frame in which the ends of said shear pin are mounted.

1,781,892. CONTROL SWITCH. HARRY E. CHIPMAN, Springfield, Mass., assignor, by direct and mesne assignments, to Andrew Le Roy Chipman, New York, N. Y. Filed Sept. 18, 1926. Serial No. 136,246. 9 Claims. (Cl. 200—12.)



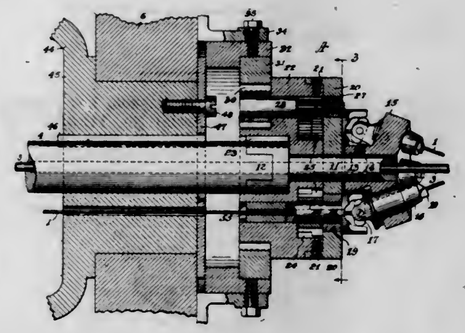
1. In a switch of the character described, in combination, two sets of cooperating electrical terminals arranged in adjacent parallel planes, one set being rotatable with respect to the other set into and out of contact with terminals of the other set selectively, resilient means operative to move said rotatable carrier in either direction to normally maintain the terminals thereon in out of contact position with the terminals of the other carrier, means for latching the rotatable set of terminals in various positions with respect to the other set, and electro-magnetic means operative when energized to release said latching means.

1,781,893. CONTROL SWITCH. HARRY E. CHIPMAN, Springfield, Mass., assignor, by direct and mesne assignments, to Andrew Le Roy Chipman, New York, N. Y. Filed May 3, 1928. Serial No. 274,774. 11 Claims. (Cl. 200—107.)



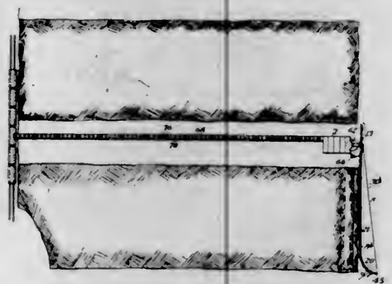
1. In a switch of the character described, in combination, a pair of carriers, a set of electrical terminals fixed to the periphery of one of said carriers, a plurality of sets of electrical terminals fixed to a side face of the other of said carriers, means for normally retaining one of said carriers in out-of-electrical contacting position in reference to the other carrier, and means for rotating one of said carriers with respect to the other in either direction from said normal position to place the terminals thereon into and out of contact selectively with the terminals of the other carrier.

1,781,894. MACHINE FOR MAKING WIRE STRANDS, ROPES, AND CABLES. EDWARD A. CONNER, Stratford, Conn., assignor to American Cable Company, Inc., a Corporation of Delaware. Filed Jan. 12, 1927, Serial No. 160,571. Renewed Feb. 11, 1930. 7 Claims. (Cl. 117—20.)



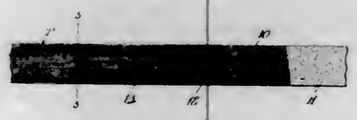
1. In a machine for making wire strand, rope or cable, a preforming head comprising a central shaft having a member rotatable therewith and furnished with a plurality of preforming devices mounted for individual rotation in bearings spaced around the axis of said central shaft, and a hub on said central shaft having planetary gearing adapted to rotate said preforming devices individually.

1,781,895. COAL-LOADING MACHINE. GEORGE M. CRAWFORD, Ingomar, and JACOB M. LONDON, Butler, Pa. Filed June 21, 1926. Serial No. 117,246. 17 Claims. (Cl. 198—7.)



1. A loading machine including a machine frame, a loading arm carried thereby, a scraper movable along the arm, a receiving disc for receiving material from the loading arm means, and a conveyer associated with the machine to which the receiving disc delivers.

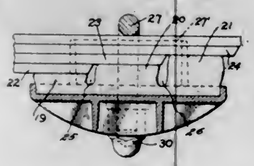
1,781,896. BIAS INSULATING TAPE. HARRY I. DIAMOND, Atlanta, Ga. Filed Dec. 13, 1927. Serial No. 239,687. 13 Claims. (Cl. 154—2.6.)



12. An insulating tape comprising a bias-cut fabric having one set of the threads disposed at an angle between 5° and 40° relative to the longitudinal edge of the strip, a coating of friction material on one side thereof, a coating of rubber on the other side thereof, and a removable protective covering on said rubber coating.

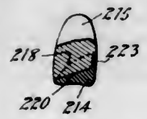
1,781,897. [WITHDRAWN.]

1,781,898. SNUBBER. ROLLIE B. FAGEOL, Los Angeles, Calif. Filed Oct. 16, 1926, Serial No. 141,924. Renewed Oct. 21, 1929. 20 Claims. (Cl. 267—53.)



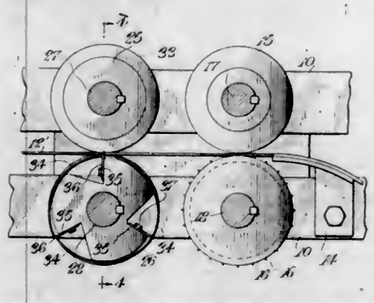
1. In combination with a multi-leaf spring, a plurality of resilient members separately bearing against the exposed overlapping faces of the spring leaves, and means for clamping said members against said exposed faces whereby yieldable friction will be produced between the contacting faces of the several leaves.

1,781,899. PONTIC FOR BRIDGEWORK. BERNARD FISCHLER, Brooklyn, N. Y., assignor, by mesne assignments, to The Columbus Dental Manufacturing Co., Columbus, Ohio, a Corporation. Filed Dec. 17, 1924. Serial No. 756,511. 3 Claims. (Cl. 32—9.)



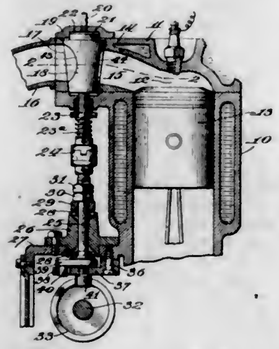
1. An artificial tooth having an integral root, and a flat oblique occlusally disposed end extending from the lingual to the labial face, and having undercut side walls, the undercuts increasing in depth toward the lingual face, a recess in the lingual face of the tooth intercepting said undercuts at their lingual end.

1,781,900. MATCH-STOCK-CUTTING APPARATUS. SAMUEL M. FRIEDE and FRANK J. MCGUIRE, Sarasota, Fla. Filed May 19, 1928. Serial No. 278,973. 4 Claims. (Cl. 164—68.)



1. In a machine of the kind described, a rotary cutter comprising opposed rollers, one serving as a bearer for the stock and the cut off knives, and the other having spaced peripheral knives, a circumferential groove for each knife and a stripper spring in each groove extending circumferentially, said spring located between the knives and fixed at its middle portion.

1,781,901. OSCILLATING VALVE. JOSEPH GAMACHE, Los Angeles, Calif., assignor to Imperial Oscillating Valve Company, Las Vegas, Nev., a Corporation of Nevada. Filed Jan. 23, 1929. Serial No. 334,467. 4 Claims. (Cl. 123—81.)



1. In an oscillating valve, a valve carrying stem, a crank arm projecting from the lower end of said stem,

a lever fulcrumed at one end and having a pin and slot connection with said crank arm, a roller journaled on said lever between its fulcrum and the pin and slot connection with said crank arm, and a cam for engaging and actuating said roller.

1,781,902. MANIFOLDING. EDWIN R. GILL, Jr., Yonkers, N. Y. Filed Jan. 15, 1929. Serial No. 332,697. 9 Claims. (Cl. 282—26.)

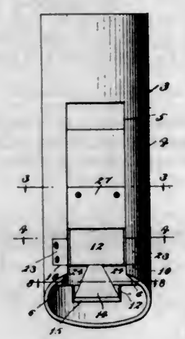


1. The method of manifolding which consists in respectively providing the surfaces of two sheet members with chemical reagents which are capable of reacting with each other to form an ink, superposing said sheets with the reagent surfaces in contact and impressing written matter upon the outer surface of one of said sheets with pressure sufficient to bring said reagents into intimate contact with each other.

5. In a manifolding system, superposed contacting sheets, the contacting surfaces being respectively provided with reagents capable of reacting when in intimate contact to form an ink.

9. The method of printing which consists in respectively providing the surfaces of two sheet members with chemical reagents which are capable of reacting with each other to form an ink, superposing said sheets with the treated surfaces in contact and applying to one of said sheets concentrated pressure along a line or lines of the shape of a legible character to bring the reagent materials which are subjected to such pressure into sufficiently intimate contact to cause them to react.

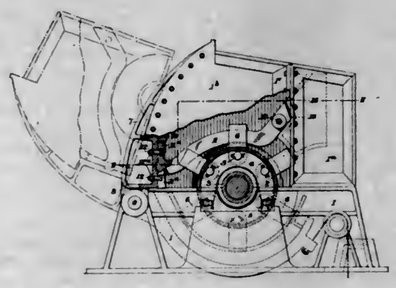
1,781,903. WELL TOOL. ARTHUR A. HELMECKE, Bay City, Tex. Filed Aug. 28, 1929. Serial No. 389,031. 6 Claims. (Cl. 294—86.)



1. A tool of the class described comprising a cylinder, a barrel slidable therein, a pair of plates slidably connected with the barrel, cooperating means carried by the barrel and plates for sliding the plates toward each other during upward sliding movement of the barrel within the cylinder.

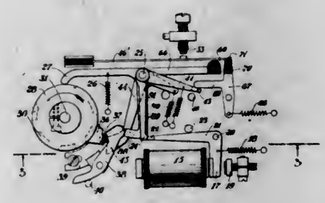
1,781,904. HAMMER MILL. CHARLES A. JAMISON, Philadelphia, Pa., assignor to Pennsylvania Crusher Company, New York, N. Y., a Corporation of New York. Filed June 30, 1928. Serial No. 289,503. 14 Claims. (Cl. 83—11.)

1. A crushing structure comprising a hopper for the material to be crushed having its bottom made up of spaced bars in the form of a grate, rotary beaters adapted to pass between the bars of said grate into said hopper, a pivotally mounted support for the bars of said grate to



which they are fixed at a point adjacent said pivot, and a transverse support upon which the opposite ends of said grate bars may freely rest.

1,781,905. PRINTING TELEGRAPHY. EDWARD E. KLEINSCHMIDT, Chicago, Ill., assignor, by mesne assignments, to Teletype Corporation, Chicago, Ill. Filed Mar. 7, 1922, Serial No. 541,745. Renewed Dec. 1, 1928. 42 Claims. (Cl. 178—33.)



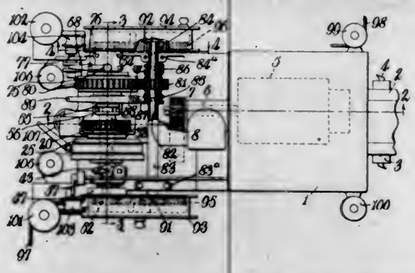
1. In a selective system, rotary means, means for arresting rotation of said rotary means, means for adjusting the position of said arresting means while said rotary means is in rotation to change the position in which said rotary means is brought to rest thereby, and means controlling said arresting means to initiate rotation of said rotary means.

25. A receiving selector comprising a single magnet; a shaft and means for rotating the same, means controlled by the energization of said magnet for mechanically stopping the rotation of said shaft and by the de-energization thereof for permitting rotation of said shaft; means actuated by said shaft during the rotation thereof for successively setting a plurality of selector members; and means controlled by the energization of said magnet for interfering with the successive setting of said selector members by said shaft actuated means.

1,781,906. MINING MACHINE. LOUIS A. MAXSON, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Aug. 31, 1925, Serial No. 53,555. Renewed June 3, 1929. 17 Claims. (Cl. 262—30.)

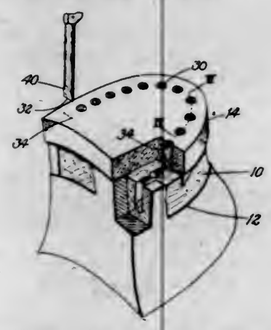
1. In a mining apparatus, feeding means including a feed operating member adapted to cooperate directly with flexible feeding means, driving means for said feed operating member, an exclusively braking means for said feed operating member for holding said member against movement or to permit said member to rotate under frictional resistance when said member is disconnected from said

driving means, and separate transmission connections between said feed operating member and said braking and



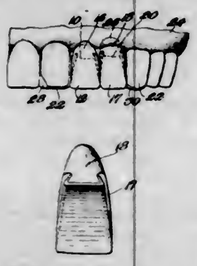
driving means respectively, the transmission connections between said feed operating member and said braking means comprising intermeshing gearing.

1,781,907. ATTACHMENT OF TOP LIFTS TO WOOD HEELS. DENNIS J. SULLIVAN, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 28, 1927. Serial No. 194,986. 6 Claims. (Cl. 12—147.)



1. That improvement in methods of attaching top lifts to wood heels which comprises holding a top lift and a wood heel in assembled relation, making holes through the top lift into the wood of the heel with an awl having a chisel point positioned with its edge extending in a direction substantially normal to the edge of the heel, and inserting fastenings in the holes thus formed.

1,781,908. ARTIFICIAL TOOTH. ALFRED E. VONGUNTEN, Hamilton, Ontario, Canada, assignor, by direct and mesne assignments, to The Columbus Dental Manufacturing Company, Columbus, Ohio. Filed Dec. 18, 1923. Serial No. 681,371. 12 Claims. (Cl. 32—9.)

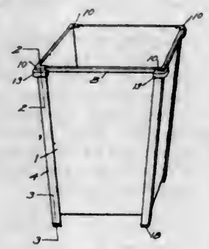


1. An artificial tooth having an integral root and comprising a metal backing, means for supporting the backing in proper position with the metal clear of the gum line arranged to have its incisal surface bear the entire biting stress, a facing adapted to simulate a natural tooth and having external grooves for engaging the backing and adapted to be cemented thereto, whereby the use of anchoring pins is eliminated.

3. An artificial tooth comprising a facing having an integral root extension and a crown portion, said crown portion being provided with a labio-occlusally inclined surface, a tenon projecting from said inclined surface and having its vertical sides under cut; said tenon being of greater depth at the lingual end than at the labial end; a cusp plate, said cusp plate being provided with a mortise to fit said tenon.

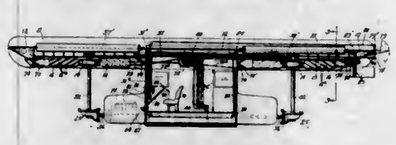
10. A pontic comprising a root tooth and a cusp, a key integral with an on the occlusally directed surface of the tooth having sides sloping inwardly toward each other from the incisal end toward the lingual face of the tooth and wedgedly engaging the cusp portion, said key and cusp terminating short of the gum line of the tooth.

1,781,909. RECEPTACLE. JOB H. WILLSON, Erie, Pa., assignor to Penn Art Steel Works, Erie, Pa., a Corporation of Pennsylvania. Filed Jan. 27, 1927. Serial No. 163,966. 9 Claims. (Cl. 220—1.)



1. In a receptacle, the combination of the sides; panel strips along the sides; a corner cushion at the corner of the receptacle above the panel strip; and a securing plate having a downturned flange extending downwardly, the outer faces of the flange being in face contact with the inner faces of the panel strip and having upwardly extending serrations projecting into the cushion.

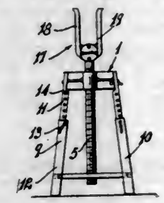
1,781,910. FLYING MACHINE. SEVERIN C. ANKERHOLTH, Los Angeles, Calif. Filed Sept. 25, 1928. Serial No. 308,230. 15 Claims. (Cl. 244—15.)



1. In a flying machine, a body, a cabin carried thereby, a propeller mounted therein to turn about a vertical axis, a motor for driving said propeller, shutters above said propeller and adjustable to regulate the suction of air downwardly by said propeller, and adjustable members to form pockets in horizontal alinement with said propeller, whereby air from said propellers laterally will impact in one of said pockets and move said flying machine horizontally.

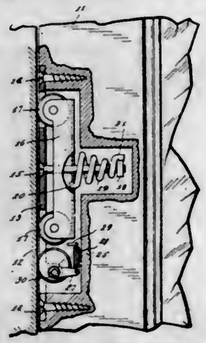
1,781,911. ADJUSTABLE SCAFFOLDING. HOWARD BALL, Long Beach, Calif. Filed Dec. 4, 1929. Serial No. 411,486. 4 Claims. (Cl. 304—4.)

1. An adjustable scaffolding comprising a head formed as a metal casting, flanges on both sides of the head, pairs of legs depending from each side of the head, said legs being formed of structural angles, means pivotally securing the legs to the flanges, a post extending through the



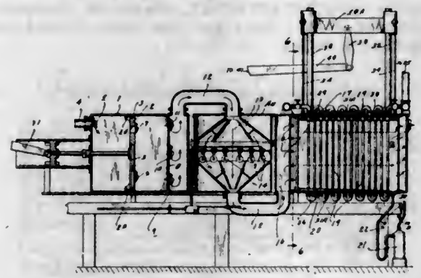
head and a latch pivotally mounted in the head, the inner end of said latch engaging the post, and a rest on the upper end of said post.

1,781,912. SASH HOLDER. STANLEY BARNES, Indianapolis, Ind., assignor to Barnes Sash Holder, Inc., Indianapolis, Ind., a Corporation of Indiana. Filed Aug. 7, 1925. Serial No. 48,698. 5 Claims. (Cl. 292—15.)



1. In combination with a window sash and its associated casing, the end face of such sash being provided with a recess, a plate bridging such recess and secured to said sash, a member located in such recess, a screw passing inward through said plate and said member, a nut on the inner end of said screw, rollers rotatably mounted on said member on opposite sides of said screw and adapted to engage said casing, and a coil spring surrounding said screw and acting between said nut and said member for forcing said rollers into engagement with said casing, the ends of said coil spring engaging said member and said nut to prevent relative rotation between them.

1,781,913. HEAT-EXCHANGE APPARATUS. FRANK BATTER, Linnton, Oreg. Filed July 14, 1925. Serial No. 43,544. 2 Claims. (Cl. 257—9.)

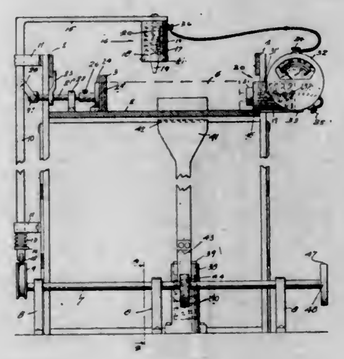


1. In a device of the class described, a warming chamber having openings disposed through its top and bottom,

conical shaped baffles attached within the chamber and in spaced relation, the upper baffle having its top side downwardly sloping and having an opening at the apex of the cone in registrable alignment with the top opening in the chamber, the lower baffle having its top side upwardly sloping and having an opening at the apex of the cone in registrable alignment with the bottom opening in the chamber, secondary baffles disposed within the primary baffles in spaced relationship with them and with each other, each baffle in similar position respecting the openings in the chamber and the primary baffles, heat radiating means disposed between these baffles in spaced relation, the upper group of baffles acting as diffusers, the lower group acting as concentrators, conduits removably secured to the openings in the chamber permitting the passing of air into and from the chamber.

2. In a device of the class described, in an apparatus for extracting moisture from the air, a condensing chamber having a plurality of vertically extending tubes in spaced relationship with dividing walls disposed therebetween, U shaped tube connections removably secured to the upper and lower ends of the tubes, packing means associated therewith, wiping means for the tubes comprising a plurality of vertically extending bars having associated with each pair of bars a horizontally positioned group of wiping rings connected at the lower ends of the respective bars, the upper ends of such bars being attached to reciprocating means for imparting vertical movement to said bars.

1,781,914. ELECTRIC-CELL-TESTING MACHINE. VICTOR T. COMER, San Francisco, Calif. Filed Feb. 26, 1927. Serial No. 171,346. 9 Claims. (Cl. 175—183.)

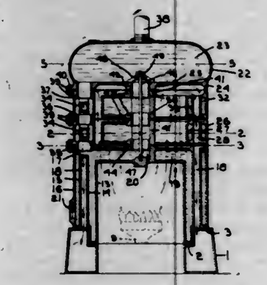


2. In combination an electric cell, an inclined guide, an electrical measuring instrument related to the guide, means to block the movement of the cell, means to momentarily clamp the cell said clamping means comprising a stationary contactor, to be supported on the guide, a clamping disc slidably disposed on the guide opposite said contactor, a movable contactor operatively connected to said disc, means to reciprocate said disc and the movable contactor and to reciprocate said blocking means; and means to electrically connect said contactors to said instrument.

1,781,915. SECTIONAL LIQUID-HEATING APPARATUS. WILLIAM A. CROSS, East Milton, Mass. Filed May 7, 1928. Serial No. 275,603. 14 Claims. (Cl. 122—214.)

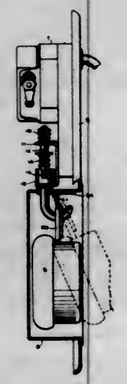
1. A sectional liquid heating apparatus comprising a fire-box having a water leg, conduits forming a spider, converging from the upper end of the water leg into a central hollow column, a wall section superimposed upon said water leg comprising inner and outer communicating chambered walls spaced apart to provide a flue therebetween,

conduits, communicating with said water leg and the chambers of said wall section, a chambered dome superimposed upon said wall section adapted to direct the products of



combustion downwardly into said flue, means respectively establishing communication between said dome and said central column and said water leg, and means to direct the products of combustion from said flue to a stack.

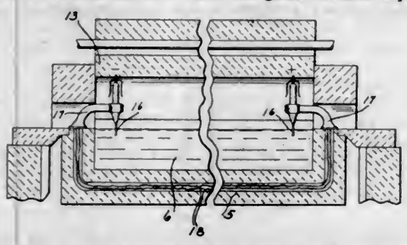
1,781,916. TELEPHONE SUBSTATION EQUIPMENT. JOHN A. DICKMAN, Rochester, N. Y., assigner to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Oct. 5, 1929. Serial No. 397,563. 5 Claims. (Cl. 179—161.)



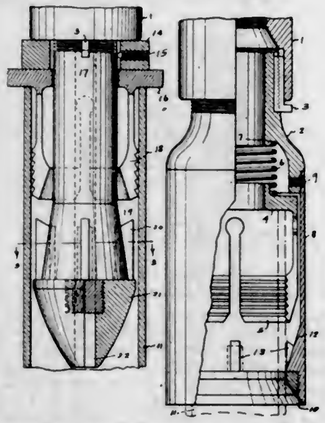
1. In telephone substation equipment, a support, electrical contacts mounted on said support, a switch-hook movably mounted in said support to actuate said contacts, a telephone receiver normally suspended from said switch-hook to move the same to its normal position, said receiver engaging said support to hold said switch-hook in its normal position, and means to move said switch-hook to its opposite position when said telephone receiver is removed therefrom.

1,781,917. HEATING MEANS FOR SHEET-GLASS APPARATUS. JOHN L. DRAKE, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Nov. 17, 1926. Serial No. 148,789. 18 Claims. (Cl. 49—53.)

1. In glass apparatus, a receptacle adapted to contain a mass of molten glass, an electrical heat resistance element for heating said glass, and a plurality of electrodes acting to automatically lessen the heating effect of said heat resistance element when the glass reaches a predetermined temperature, said electrodes then functioning to effect a heating of the glass whereby to maintain it at such predetermined temperature.

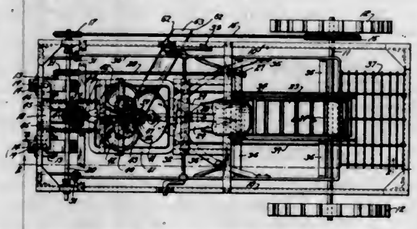


1,781,918. PIPE-PULLING MACHINE. CHARLES R. EDWARDS, Houston, Tex. Original application filed Feb. 20, 1923, Serial No. 620,240. Divided and this application filed Sept. 6, 1927. Serial No. 217,731. 37 Claims. (Cl. 294—96.)



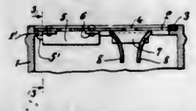
1. A releasable pipe puller including a member having a tapered slip seat, a slip support, a slip carried by said support and adapted to engage the pipe to be pulled and having a tapered seat, said member being movable into one position relative to said slip to bring said seats into cooperating relation whereby the slip is forced into secure engagement with the pipe, said member being movable into another position to carry said seats out of cooperating relation to permit said slip to release said secure engagement with said pipe.

1,781,919. BEET HARVESTER. LEWIS W. EVERSMAN, Julesburg, Colo. Filed Dec. 19, 1927. Serial No. 240,971. 4 Claims. (Cl. 55—9.)



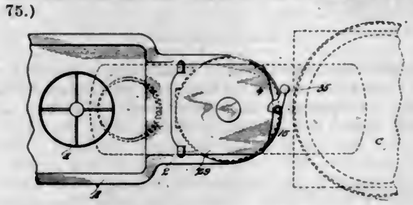
1. A beet digging and topping machine comprising a substantially rectangular fixed frame; guide wheels at the forward extremity of said fixed frame; power wheels adjacent the rearward extremity of said fixed frame, all of said wheels acting to support said fixed frame in a substantially horizontal position; a vertically hinged frame within said fixed frame, the hinge point being adjacent the forward extremity of both said frames; a floating frame positioned within said hinged frame, said latter frame being hinged from said fixed frame for both vertical and horizontal movement; digging means carried by said hinged frame; guiding means carried by said floating frame; and topping means carried by said floating frame.

1,781,920. SAVINGS BANK. EDWARD J. FISHER, Jackson Heights, N. Y., assignor to Lavender Line, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 8, 1929. Serial No. 398,126. 7 Claims. (Cl. 232—4.)



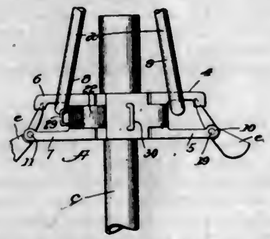
1. In a receptacle provided with an opening at the top for the admission of specified articles thereinto, a guard for said opening comprising two plates mounted within said receptacle under said opening for limited rotation about axes which are above the centers of gravity of said plates when said receptacle is in its upright position and having transversal cross sections curved away from said opening.

1,781,921. LAUNDRY APPARATUS. BENJAMIN E. GETZ, Morton, Ill. Substitute for application Serial No. 178,187, filed Mar. 25, 1927. This application filed Nov. 17, 1927. Serial No. 234,020. 15 Claims. (Cl. 210—75.)



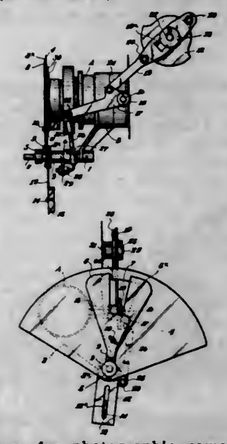
1. In combination, a centrifugal extracting member, a casing for said member and a housing connected with said casing and arranged to receive water expelled from said member, said housing and casing adapted for manual and circumferential adjustment about said member, and a drain board connected with said housing and movable therewith whereby to selectively discharge water at different points about said extracting member.

1,781,922. WELL ELEVATOR. JOHN GRANT, Los Angeles, Calif., assignor, by mesne assignments, to Byron Jackson Co., West Berkeley, Calif., a Corporation of Delaware. Filed Jan. 11, 1923. Serial No. 611,978. Renewed July 17, 1926. 4 Claims. (Cl. 294—90.)



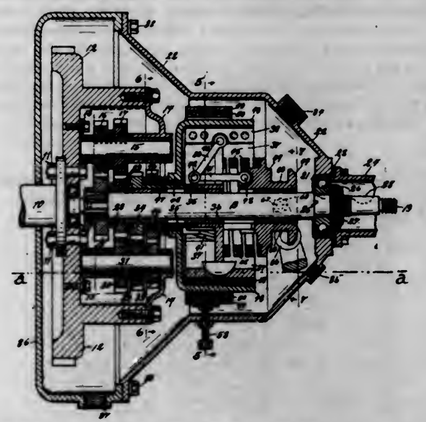
1. A device of the character disclosed including suspension means, a member adapted to be applied to work and provided with spaced arms adapted to receive said suspension means; in combination with movably mounted means normally closing the space between said arms and adapted to move to open said space upon engagement by said retaining means with an object on the movement of said device in one direction; said last named means comprising a finger mounted upon one of said arms and provided with a projection for causing movement of the finger; further means being provided for releasably locking said finger in one position.

1,781,923. SHUTTER FOR PHOTOGRAPHIC CAMERAS. SIDNEY HIRSCH, New York, N. Y., assignor to Photomaton Inc., New York, N. Y., a Corporation of New York. Filed Mar. 29, 1928. Serial No. 265,616. 2 Claims. (Cl. 88—19.3.)



1. In shutters for photographic cameras, a primary shutter member formed with an intermediate image aperture and a lens shielding portion at each side of said aperture, a fan blade mounted on the shutter member for adjusting the size of the image aperture, a rotary shaft, a cam on the shaft, a cam arm, and lever and link connections intermediate the arm and the primary shutter member.

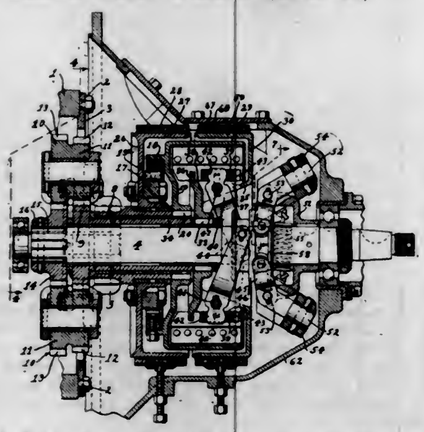
1,781,924. STRAIGHT-LINE TRANSMISSION. JAMES A. JOHNSON, Los Angeles, Calif., assignor to Annie W. Stimson, Los Angeles, Calif. Filed Aug. 20, 1927. Serial No. 214,338. 6 Claims. (Cl. 74—84.)



1. In a planetary transmission mechanism, the combination of a driving member, a planetary cage carried

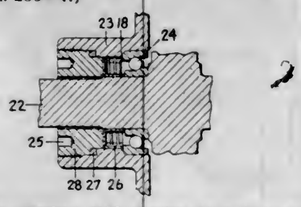
thereby with planetary gear wheels, two coaxial members mounted to rotate on a common axis of rotation with means for driving the same through said gears to rotate them respectively at different speeds on their axes, a weak friction connection associated with said coaxial members to resist first, and then prevent, without stopping their relative rotation, said friction connection including a drum rotating in unison with one of said two coaxial members and friction shoes mounted for rotation with the other of said two coaxial members, hand-controlled means for pressing the shoes against the drum with a constant force, and a driven shaft driven through said gears, said parts co-operating to drive the driven shaft at a reduced speed through the gears when the said friction connection permits relative rotation between the said shoes and the said drum, and operating to drive the shaft at the same speed as the driving member when said shoes lock with the drum and prevent relative rotation of said two coaxial members.

1,781,925. TRANSMISSION MECHANISM. JAMES A. JOHNSON, Los Angeles, Calif., assignor to Annie W. Stimson, Los Angeles, Calif. Filed Aug. 27, 1928. Serial No. 302,182. 17 Claims. (Cl. 74—34.)



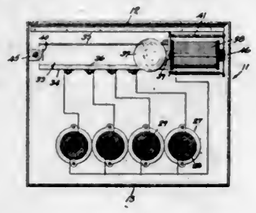
1. In a transmission mechanism, the combination of a driving-member, a driven-shaft, a planetary reduction-gearing between the driving-member and the driven-shaft for driving the driven-shaft at a reduced speed-ratio, hand operated means capable of assuming a starting position to cause the planetary reduction gearing to drive the driven shaft at the reduced speed ratio in commencing the transmission of movement through the transmission mechanism, and automatic means controlled by the speed of the driven shaft operating while the said hand-operated means is maintained in said starting position, for ceasing the driving at the reduced speed ratio and effecting the driving of the driven shaft at a higher speed.

1,781,926. PACKING. BRYAN P. JOYCE, Davenport, Iowa. Filed July 16, 1927. Serial No. 206,210. 2 Claims. (Cl. 286—7.)



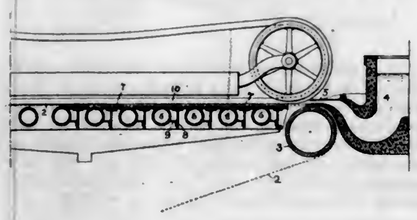
1. A packing member, said member having an annular sealing surface adapted to contact a polished, relatively movable part, said sealing surface consisting of large segments of tin between narrow radial bands of harder metal which extend entirely across the annular surface.

1,781,927. SIGNAL DEVICE. JOSEPH W. KLEIN, Los Angeles, Calif., assignor to The Electric Signal Company, Limited, Los Angeles, Calif., a Corporation of California. Filed May 21, 1929. Serial No. 364,817. 5 Claims. (Cl. 177—7.)



5. A signal device comprising in combination a track having a rail of conducting material and a rail of non-conducting material, a plurality of contact members on the non-conducting rail, a bridging piece on the track and movable therealong to bridge between said contact members and said conducting rail, said track being inclined relative to said bridging piece whereby said bridging piece is normally biased by gravity to one end of said track, electromagnetic means for producing an impact upon said bridging piece to move the same along the track against the force of gravity, a plurality of electromagnetically operated sound producing devices and circuits therefor each connected to one of said contact members.

1,781,928. PAPER-MAKING MACHINE. HARRY LIEBECK, Swarthmore, Pa., assignor to Scott Paper Company, a Corporation of Pennsylvania. Filed Sept. 27, 1928. Serial No. 308,698. 4 Claims. (Cl. 92—44.)



1. In a paper making machine of the Fourdrinier type, the combination with a wire apron, tube rolls, press roll and head-box, with a plurality of transversely arranged closure plates intermediate of adjacent tube rolls to provide obstruction to the flow of water through the apron and downward between the tube rolls, said closure plates formed of nonmetallic material and upon which the apron is supported and guided, and transversely arranged metallic frames sustained at their ends and forming an intermediate support for the nonmetallic closure plates.

1,781,929. UNDERGARMENT FOR WOMEN. MARY D. NEILSON, Minneapolis, Minn. Filed Apr. 20, 1927. Serial No. 185,167. 1 Claim. (Cl. 2—73.)

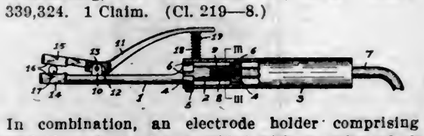
An undergarment slip for women comprising a single front piece having upwardly-converging upper side edges and substantially parallel lower side edges, an upper back piece narrower in width than the upper portion of the front piece with correspondingly converging side edges sewed to the upper side edges of the front piece and extending to a

point substantially at the hip line of the wearer, and a pair of lower back pieces each having an edge connected with



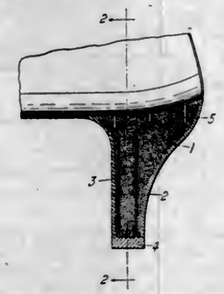
a lower side edge of the front piece and being sewed along their parallel upper edges in overlapping relation to the lower edge of the upper back piece.

1,781,930. ELECTRODE HOLDER. PAUL L. ORR, Wilkinsburg, Pa. Filed Feb. 12, 1929. Serial No. 339,324. 1 Claim. (Cl. 219—8.)



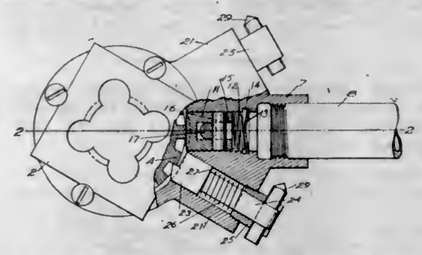
In combination, an electrode holder comprising an electrical conductor bar provided with an enlarged clamping jaw at the forward end thereof, the rear end of said conductor being formed to provide a connecting shank having a pair of circumferentially extending shoulders disposed at respective ends of the latter, a tubular insulating handle detachably mounted on said pair of shoulders and spaced from said connecting shank, a lever provided with a clamping jaw at its forward end and having an enclosed pivotal connection with said conductor bar, a spiral spring seating on said insulating handle and engaging said lever for normally shifting and maintaining the clamping jaw of the latter in the clamping position with the clamping jaw of the said conductor bar, means formed in said conductor bar for connecting the latter with the source of electrical supply, said pair of shoulders being provided with a plurality of transversely extending grooves establishing air passages to said insulating handle, the opposed faces of said clamping jaws being flat and roughed to augment their gripping action.

1,781,931. HEEL FOR FOOTWEAR. WILLIAM A. OWEN, Akron, Ohio. Filed Jan. 26, 1929. Serial No. 335,158. 2 Claims. (Cl. 36—35.)



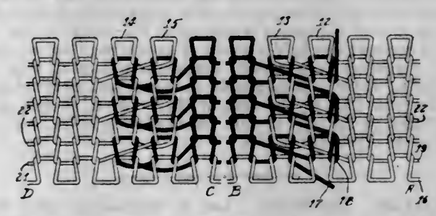
1. A high heel for footwear comprising a body portion of hard, cellular rubber, a reinforcement comprising a metal tube extending down through the shank thereof, said tube being completely supported in said cellular rubber, an integral veneer of hard rubber about the body portion, and a lift of comparatively soft rubber vulcanized to the bottom of the heel.

1,781,932. DIESTOCK. THORVALD PETERSEN, Erie, Pa., assignor to Reed Manufacturing Company, Erie, Pa., a Corporation of Pennsylvania. Filed Apr. 14, 1928. Serial No. 270,106. 4 Claims. (Cl. 192—48.2.)



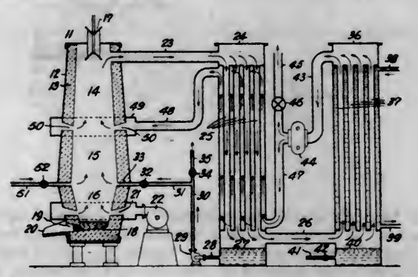
1. In a die stock, the combination of a carrier having a shank, said shank having a locking groove and ratchet teeth; a driving ring on the shank; a driving pawl socket in the ring; a driving pawl in the driving pawl socket operating on the ratchet teeth; a locking pawl socket in the ring; and a locking pawl in said locking socket operating in the groove.

1,781,933. SUTURE. WALTER F. ROLSTON, Rockford, Ill., assignor, by direct and mesne assignments, of one-half to Burson Knitting Company, Rockford, Ill., a Corporation of Illinois. Filed Nov. 11, 1926. Serial No. 147,674. 6 Claims. (Cl. 66—179.)



1. A suture between two knit fabrics comprising two adjoining wales in which the yarn of one fabric alternates with the yarn of the other fabric, each yarn being crossed upon itself by being knit successively in said two wales but in opposite strokes.

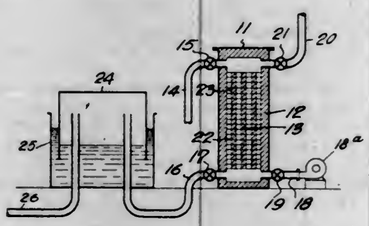
1,781,934. PROCESS OF DISTILLING MATERIAL AND CRACKING OIL. FREDERICK T. SNYDER, New Canaan, Conn. Filed June 8, 1925. Serial No. 35,804. 10 Claims. (Cl. 202—6.)



1. A process of obtaining volatiles from distillable solid carbonaceous material, which comprises, feeding an auto-

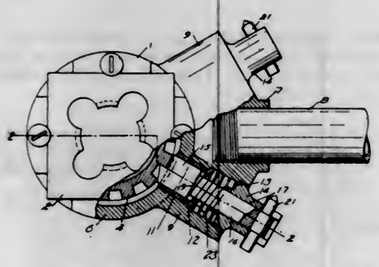
thermic retort with the solid material, distilling said material by passing in contact therewith hot non-oxidizing gas, burning the solid residue from said distillation in the base of said retort with a blast of air to supply said non-oxidizing gas and the heat required for distillation, fractionally condensing the vapours evolved by the distillation operation, injecting the heavier fractions at a point above the zone of combustion into the solid material undergoing distillation to act as part of a cooling fluid and to undergo cracking and distillation, heating the uncondensed gases and injecting them, at a point above the point of injection of said heavier condensate, into said solid material undergoing distillation to aid the distillation.

1,781,935. PRODUCTION OF HYDROGEN. FREDERICK T. SNYDER, New Canaan, Conn. Filed Dec. 16, 1925, Serial No. 75,795, and in Canada Mar. 12, 1925. 7 Claims. (Cl. 23—212.)



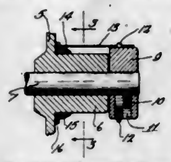
1. A process of making hydrogen by decomposing hydrocarbon gas, which comprises passing the gas in contact with refractory material of increasing temperature with exclusion of air, the maximum temperature of said material being above the decomposing temperature of said gas, and then of decreasing temperature, the decomposition being accompanied by deposition of carbon near the material of maximum temperature, subsequently burning said deposited carbon with heated air to re-heat said material, and absorbing part of the heat of the products of said combustion in the part of said material with which said gas initially came in contact.

1,781,936. DIESTOCK. LEO V. STOELTZLEN, Erie, Pa., assignor to Reed Manufacturing Company, Erie, Pa., a Corporation of Pennsylvania. Filed Apr. 14, 1928. Serial No. 270,101. 12 Claims. (Cl. 192—43.2.)



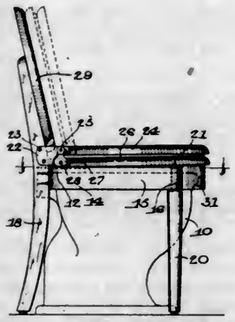
1. In a die stock, the combination of a carrier having a shank, said shank having ratchet teeth thereon and a locking pawl receiving groove; a handle ring on the shank; a locking pawl mounted in the ring and projecting into said pawl receiving groove; and a driving pawl carried by the ring and acting on said ratchet teeth.

1,781,937. FILM SPROCKET STRUCTURE. ALEXANDER FERDINAND VICTOR, New York, N. Y. Filed July 18, 1929. Serial No. 379,303. 7 Claims. (Cl. 74—31.)



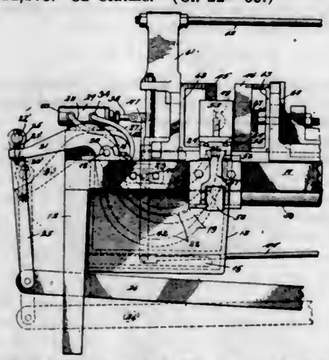
1. A device of the kind described comprising a rotatable spindle, a cylindrical body mounted thereon and provided with a plurality of radial teeth adapted to engage perforations in one margin of a motion-picture film, and a guide spaced from and independent of said body for supporting and guiding the opposite margin of the film.

1,781,938. CLOSET CHAIR. EUGENE A. ZUNDEL, Chicago, Ill. Filed Oct. 4, 1926. Serial No. 139,445. 8 Claims. (Cl. 4—134.)



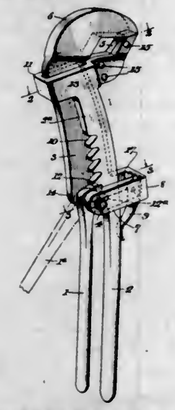
1. In a closet chair, the combination, with a closet bowl having apertures at its rear portion opening upwardly, of a chair frame disposed over said bowl and having supporting legs, and depending members at the rear portion of said frame entering said apertures to position said frame with respect to the bowl and to support said frame against lateral movement.

1,781,939. MULTIPLE-MIXTURE DIE-CASTING METHOD AND MACHINE. AXEL AKERS, Chicago, Ill., assignor to Quality Hardware & Machine Corporation, Chicago, Ill., a Corporation of Illinois. Filed Aug. 11, 1927. Serial No. 212,178. 32 Claims. (Cl. 22—69.)



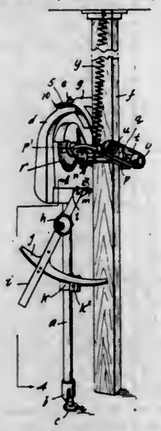
3. A die casing machine having a plurality of melting furnaces, each having movable metal containers, a mold having a cavity with means for successively enlarging the same, the containers being adapted to be simultaneously brought into position to inject different fluid metals from the furnaces into the cavity under pressure, said mold having separable parts, the joints between which are sealed by the metal upon the injection from the first container to expel air from the mold cavity whereby to establish a partial vacuum within the cavity and prevent oxidation of the exposed surface of the metal upon the enlargement of the cavity and the proper fusion of the second metal therewith.

1,781,940. WRENCH. LON DE MOSS ANDERSON, Cross Cut, Tex. Filed July 2, 1928. Serial No. 289,916. 2 Claims. (Cl. 81—86.)



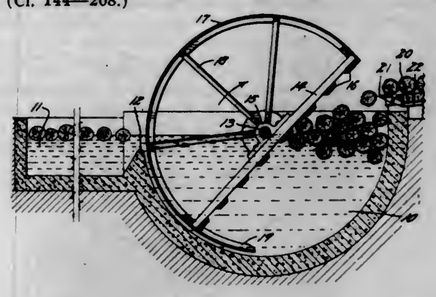
1. A wrench comprising a handle with toothed rack and an end jaw and a sleeved engagement with a movable jaw, a toothed lever pivoted on the movable jaw and engageable with the rack, the sleeved engagement being such as to permit a racked jaw to move into and out of engagement with the toothed lever and means for normally maintaining it in engagement therewith.

1,781,941. SAW GRINDER. EDWARD P. ARMSTRONG, Portland, Oreg. Filed May 28, 1927. Serial No. 195,007. 3 Claims. (Cl. 76—40.)



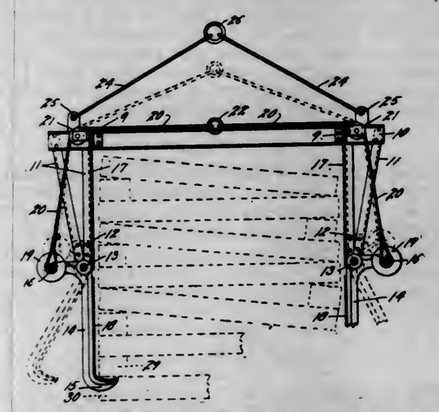
1. In combination with a saw-tooth grinder, a saw-blade support comprising, a supporting arm pivoted at one end to the floor, a post carried by the free end of said arm, an offset extension on said post to a point above the grinding wheel of the grinder, said extension having a lateral projection, a bracket to which the upper end of said extension is pivoted, the axes of the said two pivots coinciding, a pendent arm pivoted at its upper end to the said lateral projection, and means adjustable on said pendent arm for clamping the saw-blade thereon.

1,781,942. PROCESS AND APPARATUS FOR BARKING LOGS. ORLO A. BARTHOLOMEW, Kansas City, Mo. Filed Mar. 14, 1929. Serial No. 346,943. 7 Claims. (Cl. 144—208.)



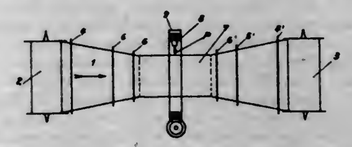
1. A device for removing the bark from logs comprising: a tank adapted to contain water; a shaft extending longitudinally of said tank; cross members carried by said shaft; and means for oscillating said shaft so that said cross members will force said logs alternately below the surface in said tank at opposite sides thereof.

1,781,943. CRANE-OPERATED DEVICE. ORLO A. BARTHOLOMEW, St. Louis, Mo. Filed May 11, 1929. Serial No. 362,153. 5 Claims. (Cl. 294—63.)



1. A crane operated device for engaging piled material comprising: a top frame; sides depending downwardly from said top frame; and hook members hinged to the lower extremity of said sides and arranged to swing inwardly to support the load between said sides; and counterweights arranged to swing said hook members inwardly.

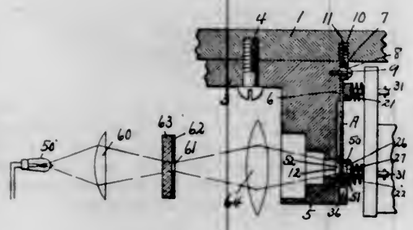
1,781,944. DEVICE FOR RECORDING DOCUMENTS TRANSMITTED BY RADIO. EDOUARD BELIN, Paris, France. Filed Nov. 2, 1929, Serial No. 404,458, and in France Nov. 10, 1928. 4 Claims. (Cl. 178—14.)



1. In a device for recording documents transmitted by radio the combination of a paper strip, means for impart-

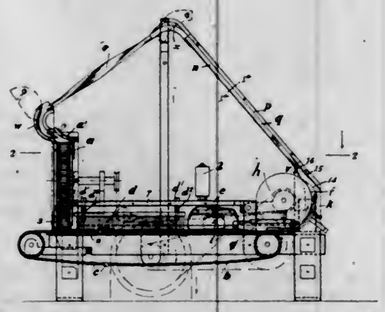
ing linear displacement to said strip, means for forming a cylindrical shape of a portion of said strip, a rotary ring surrounding said cylindrical portion, a stylus in said ring for said strip, and a worm for imparting rotary motion to said ring.

1,781,945. TALKING-PICTURE MACHINE. THEODORE WILLARD CASE, Auburn, N. Y., assignor to Case Research Laboratory, Inc., Auburn, N. Y., a Corporation of New York. Filed Mar. 14, 1928. Serial No. 261,611. 9 Claims. (Cl. 179—100.3.)



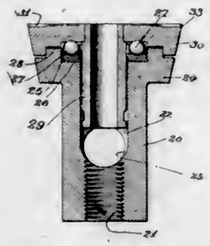
1. In an apparatus for producing or reproducing sound pictures in connection with a record element having or adapted to have a narrow sound record thereon, a body portion having a track upon which the film is adapted to ride, means for holding the record element in contact with the track and said track formed with a longitudinal channel underlying the portion of the record element which bears the sound record but positioned to one side of that portion of the record element which bears the picture.

1,781,946. MACHINE FOR CLEANING THE MATRICES FOR TYPE SETTING AND CASTING MACHINES. KARL CHRISTEL, Taucha, Germany. Filed Feb. 26, 1927, Serial No. 171,320, and in Germany Feb. 27, 1926. 8 Claims. (Cl. 15—77.)



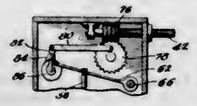
1. A machine for cleaning matrices for type setting and casting machines, comprising a frame, a feeding channel at one end of said frame, means for cleaning the matrices including a rotatable disc at the other end of said frame, a conveyor to deliver matrices to said disc, to be cleaned, a gabled return channel for said matrices and guiding means to direct the matrices from the conveyor to the return channel, whereby said matrices upon being thrown by the centrifugal force of the rotating disc will travel through the return channel to the feeding channel.

1,781,947. POTTERY KICK-OUT ELEMENT. IRVEN F. DAINS, Monmouth, Ill., assignor to Western Stoneware Company, Monmouth, Ill., a Corporation of Maine. Filed Nov. 18, 1927. Serial No. 234,070. 24 Claims. (Cl. 25—28.)



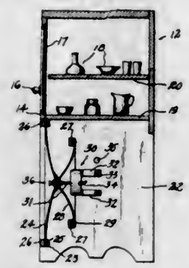
1. The combination with a pottery molding machine mold, of a rotatable core adapted to be projected therein, a kickout member positioned to be projected into said mold, and a rotatable head supported on said kickout member for co-action with said rotatable core to mold a material in said mold.

1,781,948. LUBRICATING SYSTEM. ERNEST W. DAVIS, Oak Park, Ill., assignor to Alemite Corporation, Chicago, Ill., a Corporation of Delaware. Filed July 16, 1925. Serial No. 43,993. 3 Claims. (Cl. 184—7.)



1. The combination with an automotive vehicle chassis comprising a frame and an axle movable with respect thereto, of a lubricating device mounted on said axle comprising resilient means for storing energy, a transmission for tensioning said resilient means and then suddenly releasing it, lubricant ejecting means actuated by the resilient means, said axle carrying rotatable parts, and a driving connection between said parts and said transmission, said driving connection including a pawl and ratchet for permitting reverse movement of the vehicle with the actuation of said transmission.

1,781,949. AEROPLANE-CLOTH SPEAKER. ULYSSES GRIER, New York, N. Y. Filed June 26, 1928. Serial No. 288,409. 2 Claims. (Cl. 181—31.)



1. A device of the character described, including a cabinet, supporting means for the cabinet including a pair of side members, a main diaphragm of aeroplane cloth mounted at its edges on said side members and at its upper and lower ends on said cabinet, an auxiliary diaphragm to the rear of the main diaphragm, said main and auxiliary diaphragms being centrally perforated and connected together, and tensioned in opposite directions at the center, and being both stretched taut, along the elements thereof,

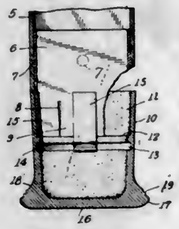
and means to transmit sound vibrations to the main diaphragm passing through the perforations in the diaphragms and engaging the same, there being a small fabric re-enforcement cemented to the main diaphragm about its perforation, said means including a pair of washers disposed at opposite sides of the diaphragms to clamp the same together and afford strong engagement therewith, said washers being perforated to permit the application of liquid cement therethrough to strengthen the diaphragms and to cement said re-enforcement to the main diaphragm as aforesaid.

1,781,950. TONGUE FOR SHOES. MATHEW HILGERT, New York, N. Y.; Lurelia Harper and Hazel M. Weiss administratrices of said Mathew Hilgert, deceased. Original application filed Feb. 15, 1923, Serial No. 619,131. Divided and this application filed Nov. 23, 1927. Serial No. 235,198. 6 Claims. (Cl. 36—54.)



1. A tongue for shoes having a stiffener comprising a sole leather base and a thin metallic strip secured to the outer side of the base by through-and-through fastenings and disposed so as to stiffen the tongue against bending laterally of the shoe.

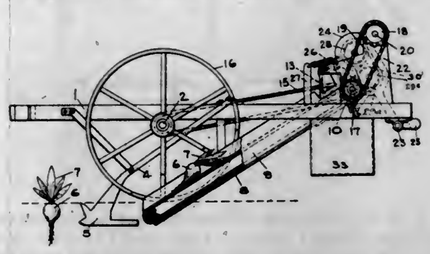
1,781,951. FURNITURE SHOE. FRED JANTZEN, Bronx, N. Y. Filed May 7, 1928. Serial No. 275,568. 3 Claims. (Cl. 16—42.)



3. As a new article of manufacture, a shoe for the leg of a table or other piece of furniture, comprising an integral hollow one piece molded member provided with a downwardly tapering socket in the top of the same, whose walls have the roughness of the original molding to thereby wedge over and frictionally grip the surface of the furniture leg, said member having a wide flat continuous smooth bottom surface of substantially the full external dimensions of the article and thereby forming a continuous flat supporting surface equal to carrying the weight of the furniture without marring a floor surface of lineoleum or the like.

1,781,952. BEET HARVESTER. OTTIS M. MCGUIRE, Bridgeport, Nebr. Filed Apr. 5, 1928. Serial No. 267,642. 7 Claims. (Cl. 55—107.)

1. The combination with the rear end of a beet harvester conveyor on which beets are carried with their tops rearwardly disposed, of a topping mechanism, said topping mechanism comprising a constantly driven gear, a pivoted frame adjacent said gear, top gripping rollers carried by said pivoted frame, sprockets at opposite ends of the rollers, the sprockets at the ends of one of the rollers rotating therewith, the other sprockets being idly mounted, a drive gear carried by one of said rollers, sprocket chains extending over said sprockets, severing



knives carried by the sprocket chains and means for driving said conveyor at a speed whereby the topping mechanism will be pivotally moved incident to the momentum of the beets projected against the same whereby the roller carried gear will be moved into mesh with the constantly driven gear for imparting movement to the knives and simultaneously rotating the rollers for gripping beet tops.

1,781,953. SHOE COUNTER. CHARLES MILLER, Long Island City, and MAX FEINSTEIN, Corona, N. Y. Filed Mar. 16, 1928. Serial No. 262,225. 13 Claims. (Cl. 36—68.)



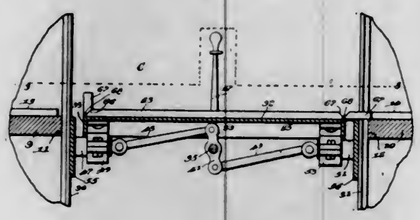
1. A counter for shoes, said counter being provided with a transverse cut extending from the bottom edge to a point substantially midway between the top and bottom, the adjacent edges of said counter at said cut being bevelled and in overlapping relation with each other when the counter is assembled in the shoe.

1,781,954. MANUFACTURE OF SULPHURIC ACID. HUGO PETERSEN, Berlin-Steglitz, Germany. Filed Feb. 24, 1927, Serial No. 170,663, and in Germany Mar. 20, 1926. 16 Claims. (Cl. 23—168.)



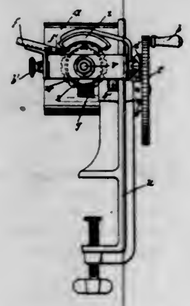
1. In the art of making sulphuric acid by the nitrogen-oxid method the step of oxidizing sulphurous acid gases which comprises passing said gases and nitrous vitriol of at least fifty-five degrees Bé. strength in the vertical direction in contact with each other and through packed reaction spaces, and regulating the flowing resistance through said spaces, so as to correspond to a pressure ranging from approximately one quarter millimeter to six millimeters water-column for each meter of said vertical flow, and keeping the nitrous strength of the vitriol at the bottom of said spaces within a limit of at least a quarter of the nitrous strength at the top of said spaces.

1,781,955. AUTOMOBILE DISPOSAL AND WITHDRAWAL STRUCTURE. WILLIAM J. PORTER, Spokane, Wash. Filed Nov. 14, 1928. Serial No. 319,281. 7 Claims. (Cl. 214—16.1.)



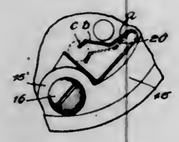
1. In an automobile storage disposal and withdrawal structure, opposed banks of floors spaced to form an intervening aisle therebetween, vertically disposed guide rails on the facing side of said floors, a car carrying platform movable in said aisle diagonally, vertically and horizontally thereof and having elongated shoes, and means for spreading said shoes against said rails to control or arrest said platform or contracting said shoes away from said rails to permit free movement of said platform between said rails.

1,781,956. HYGIENIC DENTAL BURR-CLEANING APPARATUS. ANDREAS RÜGAMER, Pforzheim, Germany. Filed Oct. 22, 1927, Serial No. 228,067, and in Germany Jan. 3, 1927. 1 Claim. (Cl. 15—21.)



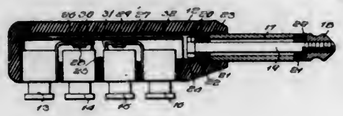
A dental burr cleaning apparatus, comprising in combination, a cleaning brush journaled in a casing, a rest for the burrs to be cleaned, means to engage the burrs from their rest and feed them to said brush and means to rotate the burrs about their longitudinal axes when passing by the brush.

1,781,957. TUBE SOCKET. NEWTON C. SCHELLENGER, Elkhart, Ind., assignor to Chicago Telephone Supply Co., Elkhart, Ind., a Corporation of Delaware. Filed Mar. 13, 1925. Serial No. 15,224. 11 Claims. (Cl. 173—328.)



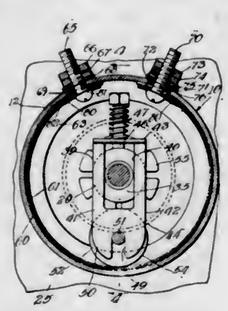
1. In combination, a mounting, a contact spring, a movable contact stud cooperating therewith, said spring including a pair of contact legs both of which are adapted to be engaged by said stud, and means on said mounting for holding one leg of the spring and forming an abutment for said leg, the other leg of the spring being free, the legs of the spring extending in the general direction of engaging movement of the contact stud and the free leg lying at an angle to the path of movement of the stud, said stud having means cooperating with said mounting for guiding the motion thereof with respect to said spring.

1,781,958. AUTOMATIC PLUG. NEWTON C. SCHELLENGER, Elkhart, Ind., assignor to Chicago Telephone Supply Co., Elkhart, Ind., a Corporation of Delaware. Filed Sept. 5, 1925. Serial No. 54,593. 7 Claims. (Cl. 173—361.)



1. In combination, a unitary housing having a centrally disposed opening and a plurality of openings offset from the central axis thereof, a plug assembly adapted for mounting in said centrally disposed opening, a plurality of jack members having sleeves adapted for mounting in the offset openings of said housing, clutch means wholly enclosed within said sleeves and adapted to act independently thereof, and means secured between the walls of said housing and said sleeves for electrically connecting said jacks with said plug assembly.

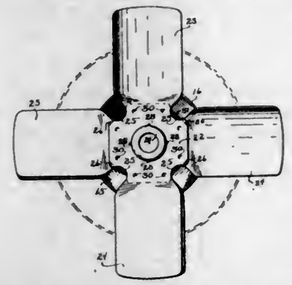
1,781,959. RHEOSTAT. NEWTON C. SCHELLENGER, Elkhart, Ind., assignor to Chicago Telephone Supply Company, Elkhart, Ind., a Corporation of Delaware. Filed Oct. 6, 1926. Serial No. 139,783. 12 Claims. (Cl. 201—55.)



11. In combination, an operating rod, a slotted collar on the rod, an arm disposed in the slot in the collar and slidable therein, a headed screw rigidly securing the collar to the rod, a lug on the arm, and a spring disposed between the lug and the head of the screw for yieldingly urging the arm away from the head of the screw.

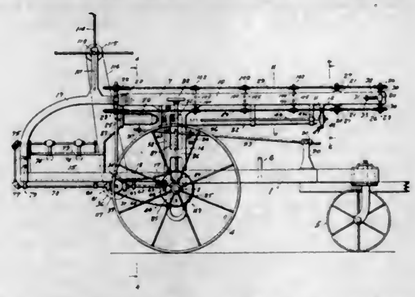
1,781,960. COMBINED FAN AND PULLEY. EDWARD SCHULTZ, Chicago, Ill., assignor to The Nagel-Chase Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 10, 1928. Serial No. 276,613. 6 Claims. (Cl. 170—159.)

1. In a device of the class described, two duplicate parts, each comprising a rectangular body portion, a fan blade formed on two opposite sides of said body portion, each having a width at a point where it joins said body portion less than the edge of said body portion to which it is formed; said part so proportioned that when the two duplicate parts are placed together the remaining sides



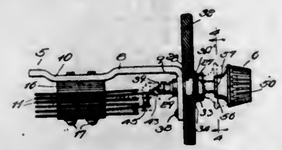
of the rectangular body portions without fan blades formed on them, each overlap and strengthen a portion of the fan blade adjacent to it.

1,781,961. BROOMCORN HARVESTER. AUGUSTUS SMITH, Denver, Colo., assignor to Catherine Teresa Daly and Mary Barbara Daly, Billings, Mont. Filed Dec. 13, 1926. Serial No. 154,621. 20 Claims. (Cl. 56—54.)



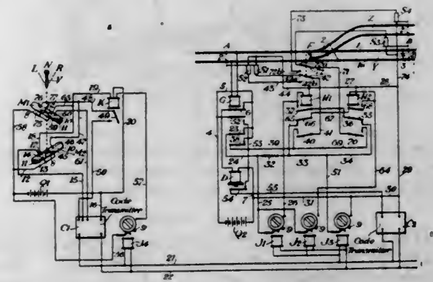
1. In a broom corn harvester adapted to operate upon a row of standing broom corn, a frame mounted upon road wheels, a cutter for removing the broom from the growing stalks of said broom corn, means for gathering said stalks and presenting them to said cutter, means for booting the stems of the cut brooms, means for passing the brooms progressively over the cutter and over the booter, means for gripping and holding said brooms erect while so passing, means for propelling the harvester along the row, and means for progressively varying the length of stem on the cut brooms, and means for operating the various elements of the machine in proper synchronism.

1,781,962. JACK SWITCH. JAMES A. STIRLING, Elkhart, Ind., assignor to Chicago Telephone Supply Company, Elkhart, Ind., a Corporation of Delaware. Filed Dec. 10, 1924. Serial No. 754,926. 25 Claims. (Cl. 200—1.)



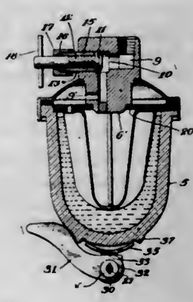
1. In a device of the class described, the combination of a jack and an operating element therefor, said element having rotary motion, and means for converting the rotary motion into longitudinal motion to move the element into and out of its operated position.

1,781,963. REMOTE-CONTROL APPARATUS. PAUL P. STOKER, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Feb. 19, 1929, Serial No. 341,067. Renewed Apr. 16, 1930. 27 Claims. (Cl. 246—5.)



25. In combination with a railway signal, a relay responsive to conditions adjacent said signal, a movable lever, a code transmitter controlled by said lever and by said relay, and means controlled by said code transmitter for operating said signal.

1,781,964. FILTER. GEORGE F. THOMAS, Berwyn, and OTTO J. HERB, Chicago, Ill., assignors to Alemite Corporation, Chicago, Ill., a Corporation of Delaware. Filed Nov. 30, 1925. Serial No. 72,243. 8 Claims. (Cl. 210—165.)

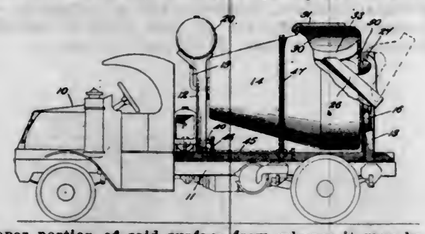


1. A filter comprising an open-ended receptacle, a cap for said receptacle comprising an annular sheet metal portion having means for making sealed connection with the edges of the open end of said receptacle, and a connection block extending through said annular portion and having inlet and outlet passageways therethrough, a filter element in said receptacle forming a filtering means between said inlet and outlet passageways, and means for securing said cap to said receptacle comprising a bail having its ends pivoted on said annular portion and its bight positioned below the bottom of said receptacle, a stirrup mounted upon said bail and movable transversely of said bail, a spring seat carried by said stirrup for engagement with the bottom of said receptacle, and a cam mounted on said bail between the sides of said stirrup, said cam having a flat edge for engaging the bottom of said stirrup.

1,781,965. CONCRETE MIXER AND AGITATOR. CHARLES F. BALL, Milwaukee, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 14, 1929. Serial No. 346,988. 12 Claims. (Cl. 83—78.)

1. In a transit concrete mixer and agitator, a receptacle having a discharge opening and a surface inclining down-

wardly toward said opening; and means for moving concrete material away from said opening and toward the

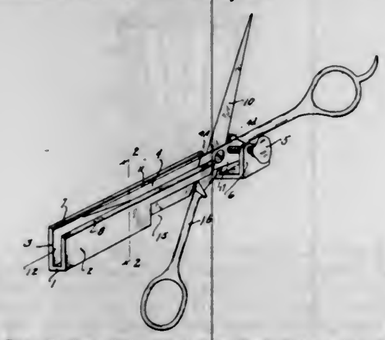


upper portion of said surface from whence it may be returned by gravitational action toward said opening, to effect agitation or mixing of said material.

1,781,966. CARBAZOLE-INDOPHENOL COMPOUNDS AND PROCESS OF PREPARING THE SAME. FRITZ BALLAUF, FRIEDRICH MUTH, and ALBERT SCHMELZER, Elberfeld, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Original application filed Jan. 16, 1925, Serial No. 2,926, and in Germany Jan. 24, 1924. Divided and this application filed Nov. 6, 1926, Serial No. 146,842. 5 Claims. (260—46.)

1. In the process of preparing carbazoloic acid-alkylamido-indophenols the steps which comprise reacting with an aliphatic amine having a replaceable hydrogen atom linked to the nitrogen, in presence of an anhydrous halide condensation agent, upon a carbazole-carboxylic acid and condensing the so obtained carbazoloic-acid-alkylamide with a nitrosophenol.

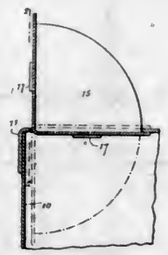
1,781,967. SHARPENING DEVICE. EDMUND A. BALTZELL, Portland, Oreg. Filed Jan. 12, 1929. Serial No. 332,102. 3 Claims. (Cl. 76—82.2.)



1. In a device of the class described, the combination of a body element having a base and side walls spaced apart and extending upwardly therefrom, there being case-hardened beveled surfaces terminating the upper edges of the side walls and in registrable alignment with each other, and an offset disposed in one of the side walls for permitting the blade to be sharpened to be brought into intimate contact with the inner surface of one of said walls and to accommodate the blade not being sharpened and means for clamping the device to be sharpened relative to the body element.

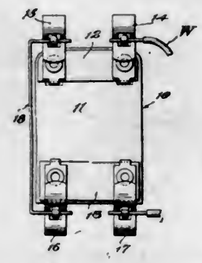
1,781,968. MEASURING DISPENSING DEVICE FOR CONTAINERS. MARION BARTIAENS, Elberon, N. J., assignor to Belle-Rea Corporation, Wilmington, Del., a Corporation of Delaware. Filed July 26, 1927, Serial No. 208,617. Renewed Apr. 5, 1930. 1 Claim. (Cl. 221—98.)

The combination with a container top having an opening therein, a trough-shaped measuring dispensing device mounted for limited tilting movement in the opening, said device including a V-shaped plate and spaced sector plates connecting the two sides thereof, said sector plates being



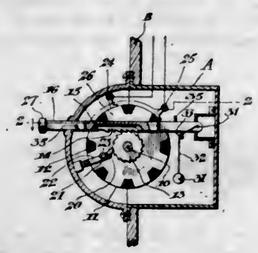
set in from the lateral edges of the V-plate and including bendable tongues projecting from their edges passed through slots in the V-plate and bent around against the back of the latter.

1,781,969. AUTOMATIC SAFETY CUT-OUT FOR TOY RAILWAYS AND THE LIKE. HARRY S. BECKER, River Forest, Ill., assignor to American Flyer Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 16, 1926. Serial No. 88,649. 3 Claims. (Cl. 200—133.)



1. An automatic safety cutout unit for electrical toys comprising an insulating base, conductor strips secured at opposite edges of said base, a pair of wire terminal clamping clips electrically connected to each strip, and a fusible member adapted to be detachably and positively connected to opposite clips of each pair.

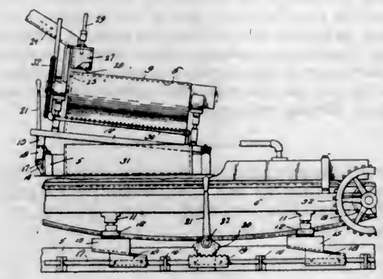
1,781,970. SWITCH. WALTER OTWAY BENJAFIELD, Regina, Saskatchewan, Canada. Filed Sept. 19, 1927, Serial No. 220,548. Renewed Apr. 1, 1930. 4 Claims. (Cl. 200—156.)



1. A switch comprising a casing, a rotatably mounted shaft in the casing, a contact member on the shaft formed

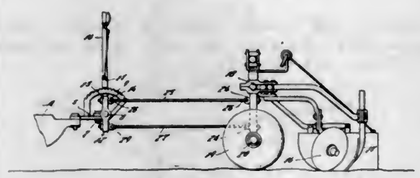
with peripherally spaced insulated portions, spaced terminals associated with said member, a ratchet wheel on the shaft, a push rod operable from without the casing and formed with an intermediate rack portion to engage with the ratchet wheel, means associated with the rod for continuously exerting pressure outwardly thereon.

1,781,971. CONCENTRATING MACHINE. CLAUDE N. BIELENBERG, Deer Lodge, Mont. Filed May 31, 1928. Serial No. 281,937. 1 Claim. (Cl. 209—508.)



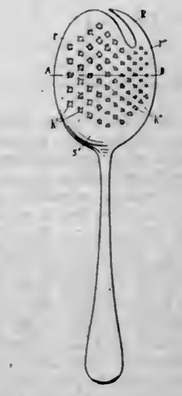
In an ore concentrating machine, the combination of a base frame and a supplemental frame, a concentrating table mounted on the base frame, and means associated with the base frame and the table for adjustably laterally tilting said table, said supplemental frame having legs, transverse bars upon which the lower ends of said legs are secured, said transverse bars having corresponding ends pivotally resting upon a longitudinal member of the base frame at one side of the machine, said second named longitudinal member of the base frame having pairs of spaced upwardly projecting pins, and cross pieces on the adjacent ends of said transverse bars having apertures through which said pins loosely project.

1,781,972. CULTIVATOR HITCH. ALBERT BLECHA, Benkelman, Nebr. Filed June 18, 1929. Serial No. 371,818. 4 Claims. (Cl. 97—143.)



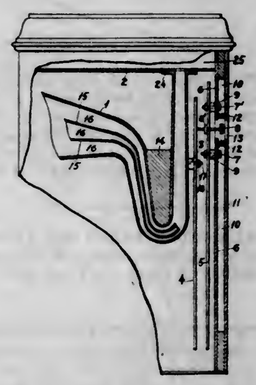
1. A tractor hitch for cultivators comprising a shaft rotatably mounted at the rear of the tractor, means for rotating the shaft, upwardly and downwardly projecting members on the shaft, a gauge wheel mount, means for securing a cultivator to said mount, and link members connecting the said mount to the upwardly and downwardly extending members on the shaft.

1,781,973. SPOON. EDITH MARY BOLTON, Gerrard's Cross, England. Filed May 27, 1929, Serial No. 366,369, and in Great Britain Jan. 28, 1929. 4 Claims. (Cl. 146—180.)



1. A culinary utensil including a spoon like bowl having one side edge abruptly curved and the remaining side edge substantially flat, said bowl having grater punchings extending from the convex surface of the bowl and increasing in size by regular gradation from the flat to the curved side of the bowl.

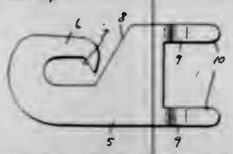
1,781,974. GRAMOPHONE, MEGAPHONE, OR THE LIKE. ALFRED HERSLEB BORDQVIST, Copenhagen, Denmark. Filed May 31, 1928, Serial No. 281,938, and in Denmark Sept. 6, 1927. 5 Claims. (Cl. 181—27.)



1. In sound amplifying apparatus, a horn formed with a sharp goose-neck bend, in combination with a heavy mass disposed exteriorly of said horn between and engaging the opposing inner walls of said sharp bend thereof and serving to dampen the vibrations of the walls of said horn.

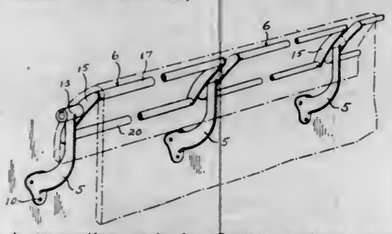
2. In sound amplifying apparatus, a horn formed with a sharp goose-neck bend, and a sound board, in combination with a plurality of resonance plates, one of said resonance plates being mounted on said horn in spaced relation thereto to receive vibrations from the wall thereof, and another of said resonance plates being mounted on said sound board in spaced relation thereto, and an adjusting screw mounted in the latter resonance plate and adjustable therethrough to engage and exert varying degrees of pressure on the resonance plate mounted on the horn.

1,781,975. HAME HOOK. LITTLE B. BRAY, Bonaire, Ga. Filed June 9, 1930. Serial No. 460,004. 1 Claim. (Cl. 24—230.5.)



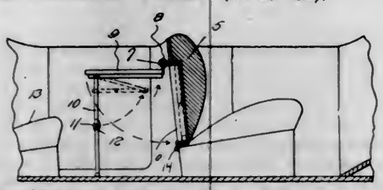
A hame hook formed from a single length of material and comprising a relatively flat plate like body portion provided with an L-shaped notch opening inwardly from one side edge of the plate, intermediate the ends of the plate, and having an inner portion extending parallel to the longitudinal axes of the plate, and a second portion extending substantially obliquely to the longitudinal axes of the plate whereby to provide a substantially circuitous passage for the admission of the eye of a trace, spaced parallel coextensive arms integral with said body and projecting therefrom adjacent one end of the body, said arm being offset inwardly relative to the plate, and said arms merging into hooks, said last mentioned hooks being arranged in transverse alinement relative to said body and having their planes at right angles to the plane of said body, said last mentioned hooks adapted to engage the staple of a hame.

1,781,976. RACK. WALTER G. BROWN, Balboa, Canal Zone, Panama. Filed Nov. 15, 1928. Serial No. 319,680. 4 Claims. (Cl. 211—89.)



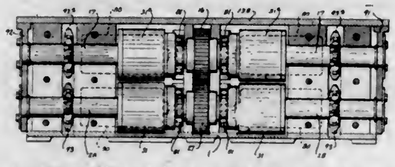
1. A supporting rack for flexible articles, including mounting brackets for attachment upon a vertical surface, and a frame pivotally mounted at its ends between the brackets and having a grip rod engageable with the face of the vertical surface below the pivot axis of the frame and above the point of attachment of the brackets.

1,781,977. COLLAPSIBLE TABLE FOR AUTOMOBILES. LEON H. CUMMINGS, Ware, Mass. Filed Apr. 28, 1928. Serial No. 273,630. 1 Claim. (Cl. 45—51).



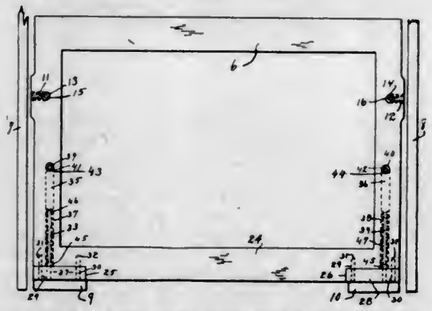
In combination, an automobile seat including an upright back portion having a comparatively shallow open compartment therein, a horizontal rod secured to the rear surface of the back portion of said seat in spaced relation therefrom and adjacent the upper end of the compartment, a table top and suspension means for one edge of the table top adapted for supporting the same in either a vertical position in the compartment or a horizontal position and comprising a plurality of hooks extending laterally and upwardly above the upper surface of the top, from one edge thereof and adapted for detachable engagement with said rod.

1,781,978. MACHINE FOR HANDLING LOOSE MATERIALS. KENNETH DAVIS, Ebensburg, Pa., assignor to Rembrandt Peale, W. Sanders Davies, and William S. Wallace, Trustees. Filed June 22, 1926. Serial No. 117,673. 5 Claims. (Cl., 180—9.2.)



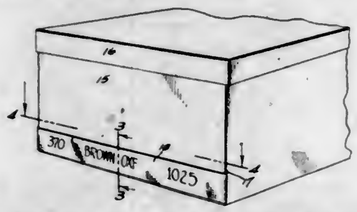
1. An automobile machine for handling loose materials, including in combination a motor on the machine, an endless traction tread at either side of the machine, and two reversely operating sprocket wheels meshing with either traction tread, continuously driven driving connections from the motor to the sprocket wheels, and clutches for connecting and disconnecting the various sprocket wheels and their driving connections.

1,781,979. ADJUSTABLE PLATEN-PRESS CHASE. GEORGE A. DICKLEY and EARL B. GROFF, Long Beach, Calif. Filed Dec. 24, 1928. Serial No. 328,110. 4 Claims. (Cl. 101—391.)



1. A platen press chase comprising a substantially rectangular frame adapted to have the type form locked therein, the lower corners of said frame being cut away to form recesses opening downwardly and outwardly, plungers slidably mounted in the side members of said frame longitudinally thereof to slide lengthwise of said side members, an adjusting block rigidly secured to the lower end of each of said plungers normally resting within said recesses; resilient means to normally hold said plungers and adjusting blocks in their innermost positions; and means to move said plungers and blocks outwardly.

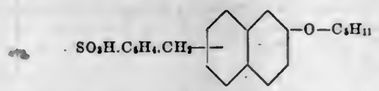
1,781,980. BOX LABEL. ABRAHAM ISAACSON, Los Angeles, Calif. Filed Oct. 10, 1928. Serial No. 311,568. 7 Claims. (Cl. 40—7.)



1. In combination, a box having openings therein, a label extended through the openings so as to have a portion of the label presented to the outer side of the box, and means for detachably securing the label to the box.

1,781,981. PROCESS FOR THE MANUFACTURE OF ARYLALKYLETHERS WHICH ARE ARALKYLATED IN THE NUCLEUS AND OF THEIR SULPHONIC ACIDS. MYRTIL KAHN, Cologne-Deutz-on-the-Rhine, and ALFRED THAUSS, Cologne-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed June 21, 1926, Serial No. 117,616, and in Germany June 27, 1925. 3 Claims. (Cl. 260—159.)

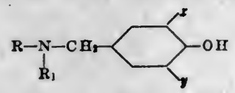
3. As a new product the herein described compound having probably the formula:



being in the form of its alkali metal salt a light colored amorphous substance of soap-like appearance, easily soluble in water to a substantially colorless solution and having an extraordinarily high wetting action on textile fibres in neutral alkaline and acid solutions.

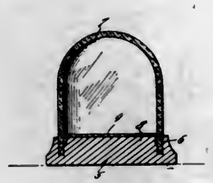
1,781,982. AROMATIC METHYLENEAMINO COMPOUNDS AND PROCESS OF PREPARING THE SAME. MYRTIL KAHN, Cologne, WILHELM SCHEPSS, Leverkusen-on-the-Rhine, and LUDWIG ZEH, Wiesdorf-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed June 23, 1927, Serial No. 201,017, and in Germany Aug. 19, 1926. 4 Claims. (Cl. 260—129.)

2. The new products being condensation products of the aromatic series, being whitish powders soluble in dilute alkalies producing azo dyes with diazocompounds and having most probably the following general formula:



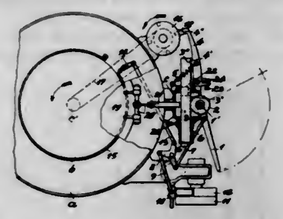
R stands for a benzene or naphthalene nucleus which may contain further substituents, R_1 stands for hydrogen, alkyl or aryl, x means hydrogen or a substituent and y hydrogen or the carboxylic group.

1,781,983. DICE BOX. EDWIN W. KOCH, Tremont, Ill. Filed Jan. 14, 1930. Serial No. 420,727. 1 Claim. (Cl. 273—145.)



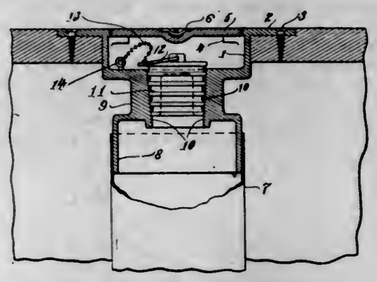
A dice box comprising a receptacle of transparent material closed at its top and open at its bottom, a supporting base for said receptacle normally closing the opened bottom of the receptacle, said bottom being of substantially relatively flat disk like formation and having on the top face thereof an annular groove inwardly of the peripheral edge thereof for receiving the lower edge of said receptacle, and a disc of relatively soft material covering the top face of said base and having its peripheral edge arranged within the groove, said disc presenting a sound deadening surface for the base.

1,781,984. CENTRIFUGAL EXTRACTOR. HUBERT KRANTZ, Aachen, Germany. Filed Aug. 18, 1928, Serial No. 300,564, and in Germany Feb. 24, 1928. 5 Claims. (Cl. 210—72.)



1. In a centrifugal extractor, a rotatable basket, a mechanism for starting and stopping the rotation of the basket, latching means for locking this mechanism during the starting and working of the extractor, power means for automatically moving the said mechanism into stopping position when released, a continuously one way rotatable timing member actuated by the basket drive and designed to make not more than one revolution at each operation of the extractor, at least one releasing element carried by the timing member for delimiting the amount of rotation of this member and the length of each operation of the extractor, said element being adapted to actuate the said latching means for releasing the starting and stopping mechanism at the end of each section of rotation of the timing member and to assume the starting position of the section of rotation for the succeeding operation.

1,781,985. TAP. JOSEPH M. LE GRAND, Baltimore, Md., assignor to Carrier Engineering Corporation, a Corporation of New York. Filed June 8, 1926. Serial No. 114,586. 7 Claims. (Cl. 137—76.)

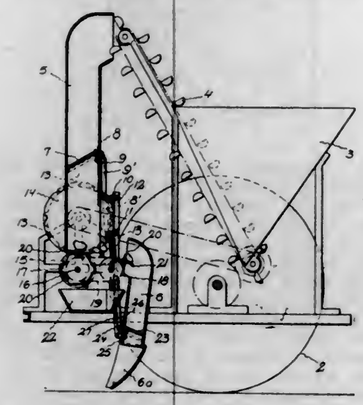


1. An outlet for exhaust systems comprising a shell having an external peripheral flange at one end to enable the shell to be set approximately flush into a wall at the flanged end and also having a chamber opening outwardly through the flanged end and at its inner end restricted into a tapered passage tapering away from said chamber, said shell at its end opposite the flanged end being formed for attachment to an exhaust conduit, a movable closure mounted approximately flush in the outer end of said chamber, and a tapered plug fitting said tapered passage.

1,781,986. POTATO-SETTING MACHINE. JANNE FREDRIK LJUNGDAHL, Stockholm, Sweden. Filed Nov. 25, 1929. Serial No. 409,699. 2 Claims. (Cl. 221—128.)

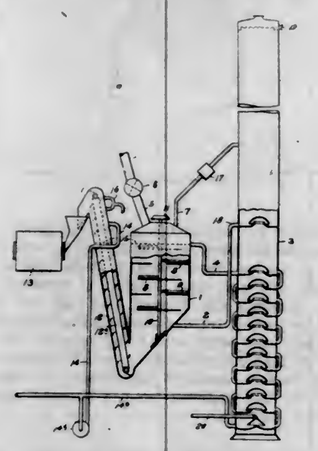
1. A potato setting machine comprising a container for the potatoes to be set, two drop tubes for each

furrow, means for covering the potatoes from said container into the drop tubes, a drop damper in each drop tube, an intermittently movable conveyor means positioned beneath the lower open end of each drop tube, driving means for both of the conveyors and adapted for driving them alternately, a setting tube positioned at the discharge end of each conveyor, a setting damper in each setting tube, a common setting chute leading from the



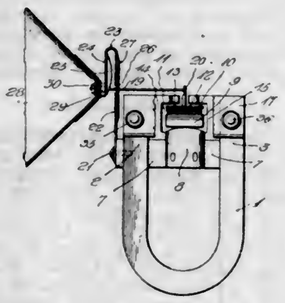
discharge ends of both setting tubes into the furrow to be set, driving means for opening and closing of all of the dampers, and interconnection means between said dampers adapted for performing an opening and closing of the drop damper belonging to one of the setting devices simultaneously with the opening and closing of the setting damper belonging to the other setting device, and vice versa.

1,781,987. PROCESS OF TREATING AMMONIACAL LIQUORS. DWIGHT R. MEANS, Madena County, Ohio, assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Sept. 20, 1926. Serial No. 136,542. 7 Claims. (Cl. 202—57.)



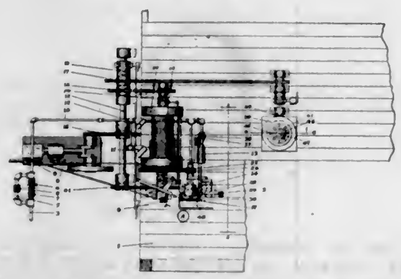
1. The process of recovering ammonia from liquor containing fixed ammonium compounds including ammonium chloride comprising supplying at one end of a mixer a quantity of unpulverized quick lime containing unburned lime stone in an amount necessary to decompose the fixed ammonium compounds, supplying countercurrently at a remote portion of the mixer ammoniacal liquor, allowing the unpulverized quick lime containing the unburned lime stone to gradually work downwardly and be suspended in the ammoniacal liquor and the unburned lime stone to settle and segregate in the lower portion of the liquor, removing the unburned lime stone from the liquor, and subjecting the liquor containing the lime suspension to distillation to recover ammonia therefrom.

1,781,988. ACOUSTIC DEVICE. PHILIP A. MICHELL, New Brighton, N. Y., assignor to Brandes Laboratories, Inc., Newark, N. J., a Corporation of New Jersey. Filed Apr. 26, 1929. Serial No. 358,216. 5 Claims. (Cl. 179—115.)



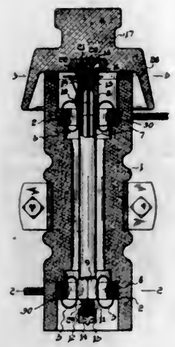
1. In an electromagnetic sound reproducer, a vibratory armature member, a sound reproducing diaphragm, a drive pin interconnecting said armature member with said sound reproducing diaphragm, and means for suspending said drive pin comprising a resilient strip of material bent upon itself, said drive pin passing through one portion of said resilient strip and being connected to another portion thereof.

1,781,989. APPARATUS FOR WELL DRILLING. GEORGE D. PARKER, Riverside, Calif.; Clara B. Parker executrix of will of said George D. Parker, deceased. Filed Aug. 18, 1923. Serial No. 658,152. 8 Claims. (Cl. 255—19.)



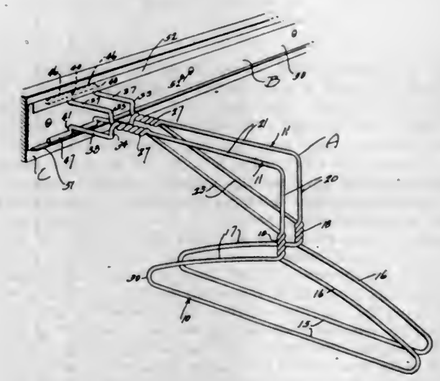
5. A controlling device for a drum of a drilling machine comprising driving mechanism driven by an engine and adapted to drive said drum; and a piston and cylinder responsive to the pressure of the operating medium of the engine for operating and controlling said driving mechanism.

1,781,990. COMBINED ELECTRIC FUSE AND SWITCH. JAMES R. TATE, Toronto, Ontario, Canada, assignor to Dominion Cutout Company Limited, Toronto, Canada. Filed Aug. 13, 1928. Serial No. 299,347. 16 Claims. (Cl. 200—129.)



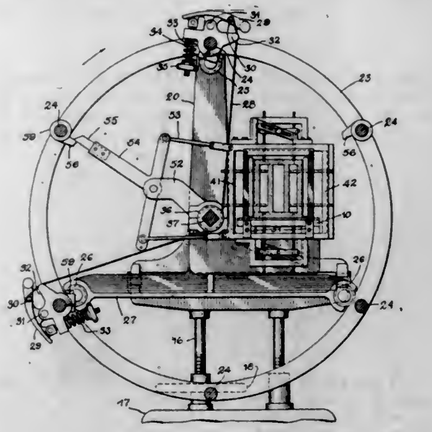
13. In a combined fuse and switch, the combination of a fuse cartridge having spaced contact members thereon to which a fusible element is connected; a hollow body of insulating material in which the fuse cartridge is slidably received; spaced contacts within the body with which the contacts on the fuse cartridge are adapted to engage, the upper contact member on the fuse cartridge having a threaded recess formed thereon to receive the end of the fusible element; a cap of insulating material; a plug carried by the cap and adapted to be screwed into said recess; a spring on said upper contact member, said upper contact member having a hole formed in its side; a tongue on said spring extending through said hole, said plug having a shoulder formed thereon with which said tongue is adapted to engage to prevent the removal of the plug, said plug having a pocket formed therein; a plunger slidable in said pocket; and a spring in said pocket tending to move the plunger into projected position.

1,781,991. GARMENT HANGER. HOWARD L. STOVER, Williamsport, Pa. Filed July 5, 1928. Serial No. 290,587. 5 Claims. (Cl. 223—61.)



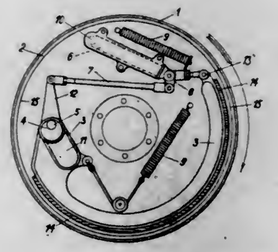
1. As an article of manufacture a garment hanger supporting rail consisting of an elongated supporting body having a lower substantially right angled transverse flange and an upper socket flange with a socket opening directly facing the lower flange.

1,781,992. APPARATUS FOR MAKING TILES. JOHN W. THOMAS, Daisy, Tenn., assignor to B. Mifflin Hood Brick Company, Daisy, Tenn., a Corporation of Tennessee. Filed July 24, 1928. Serial No. 295,101. 14 Claims. (Cl. 25—17.)



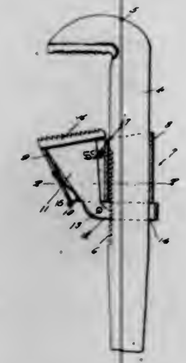
1. In a tile making machine, the combination with a die shaped to form a substantially rectangular tubular structure having vertical partitions parallel with opposite side walls, the structure partially separated at the junction of the partitions and the side walls with the top and bottom walls to enable easy separation of the walls and partitions into individual tiles after baking, means moving with the structure for cutting it transversely into similar lengths, and means moving therewith for perforating all of the walls and partitions to provide openings for nail holes.

1,781,993. BRAKE MECHANISM WITH BRAKE BLOCK FOR MOTOR VEHICLES. EMANUEL WIECZOREK, Breslau, Germany, assignor to Rudolf Kandt, Leipzig, Germany. Filed Sept. 28, 1928, Serial No. 308,945, and in Germany Oct. 5, 1927. 1 Claim. (Cl. 188—78.)



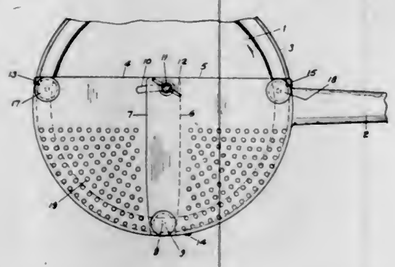
A brake mechanism for motor vehicles, comprising in combination with the brake drum, one single brake block having an oblong slot in one end, a piston linked to one end of said brake block and adapted to press said brake block against said brake drum, an eccentric engaging with said oblong slot for guiding obliquely said brake block and adapted to press said brake block against said brake drum, a lever carrying said eccentric, a rod hingedly connected to said lever, and a link connecting said rod to said piston.

1,781,994. WRENCH. FORD M. WILSON, Liberal, Kans., assignor of one-half to Henry E. Snyder, Liberal Kans. Filed May 28, 1929. Serial No. 366,668. 1 Claim. (Cl. 81—92.)



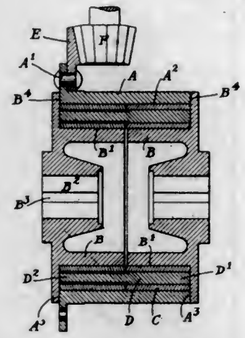
In a wrench of the class described, a shank having a longitudinal rack on one edge and provided at its outer end with a right angularly disposed stationary jaw, a movable jaw unit slidable on said shank and comprising a mounting including a sleeve portion snugly embracing and slidable on said shank, and a sheath projecting outwardly in substantial parallelism with said stationary jaw, a pawl loosely disposed in said sheath having its upper end projecting beyond the upper end of the sheath and formed into a toothed jaw and having its lower end projecting below the corresponding end of the sheath, directed laterally and formed with teeth for engaging the rack teeth, sping means in said sheath acting on said pawl to tip said teeth into engagement with said rack, an operating element for the pawl embracing the shank, the operating element comprising a yoke, and a thumb hook depending from the outer wall of the sheath in opposed relation to the yoke to facilitate operation of said elements.

1,781,995. STRAINING ATTACHMENT FOR PANS AND KETTLES. ROY W. ALEXANDER, Newark, N. J. Filed Mar. 22, 1930. Serial No. 438,028. 3 Claims. (Cl. 53—8.)



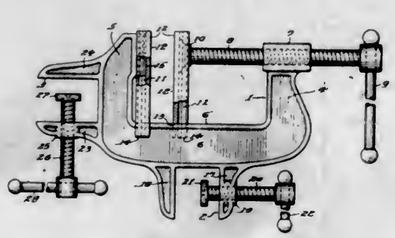
1. A straining attachment for pans, kettles and the like comprising two sector-shaped metal pieces pivoted together in overlapping relationship, the pivot being near the arcuate edges of said pieces, said pieces being provided with means located substantially diametrically opposite to said pivot for changing the amount of overlap for the purpose described, a plurality of clips positioned on one side of said sectors for engaging the rim of a pan, kettle or the like, and knobs on the opposite side of the sectors from said clips for manipulating the attachment, said sectors having a plurality of drain holes therein.

1,781,996. DIFFERENTIAL. CIPRIANO ANDRADE, Jr., New York, N. Y. Filed Sept. 28, 1926. Serial No. 138,157. 2 Claims. (Cl. 74—7.)



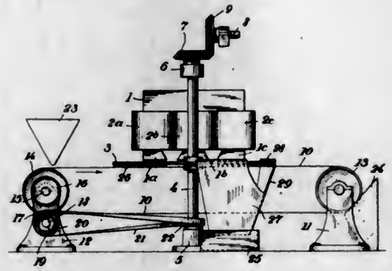
1. In a differential; a first set of locking rollers; a second set of locking rollers; a driving member outside of said locking rollers; a first driven member inside of said first set of locking rollers; a second driven member inside of said second set of locking rollers; said driving member being supported only by said locking rollers.

1,781,997. CLAMP. JOHN BEREZOWSKI, Philadelphia, Pa., assignor of one-half to Peter Berezowski, Philadelphia, Pa. Filed Oct. 23, 1929. Serial No. 401,732. 3 Claims. (Cl. 144—304.)



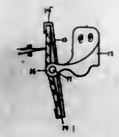
1. A tri-dimensional clamping device comprising the combination with a main generally C-shaped clamp consisting of two main stationary jaws, a connecting portion integral therewith and a clamping screw, threaded through one main jaw and longitudinally movable toward and away from the other main jaw, of an auxiliary clamp comprising two substantially parallel auxiliary jaws and a connecting portion integral therewith and comprising said main connecting portion of said main clamp, said auxiliary jaws extending in a direction opposite to that in which said main jaws extend, a clamping screw through one of said auxiliary jaws movable longitudinally toward and away from the other of said auxiliary jaws, and a second auxiliary clamp also comprising two substantially parallel stationary jaws and a connecting portion integral therewith, said connecting portion being that main jaw toward and away from which said main clamping screw moves longitudinally, said second auxiliary clamping jaws projecting outwardly from said main jaw in a direction at right angles to that in which said main and first auxiliary jaws extend and a clamping screw threaded through one of said second auxiliary jaws and movable longitudinally toward and away from the other of said second auxiliary jaws.

1,781,998. MAGNETIC SEPARATOR. JULIUS BING, Eisenach, Germany, assignor to the Firm Magnet-Werke G. m. b. H., Eisenach Spezialfabrik für Elektromagnet-Apparate, Eisenach, Germany. Filed Aug. 8, 1928. Serial No. 298,354, and in Germany Aug. 9, 1927. 7 Claims. (Cl. 209—227.)



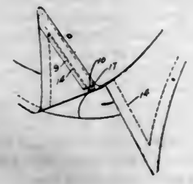
1. In a magnetic separator, an alternating current electro-magnet provided with downwardly extending free poles, a rotary disc being partly arranged below said poles and adapted to be moved in close proximity of said poles, means for feeding the material to be separated into the active zone of the field of said poles below said disc the same having such a circular velocity that the magnetic particles of the material brought by the magnet into adhesion with the disc are centrifuged from said disc outside of the active zone of the field of said poles, said disc being revolved by the alternating current magnet consequently to the magnetic field produced thereby.

1,781,999. REAR-VIEW MIRROR. CHARLES BITTINGER, Brookline, Mass. Filed Mar. 16, 1929. Serial No. 347,512. 4 Claims. (Cl. 88—1.)



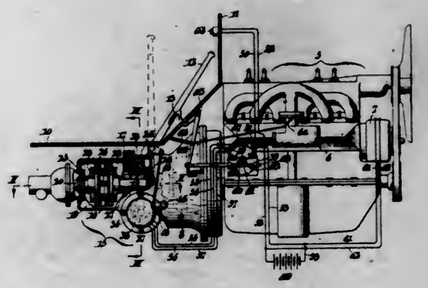
1. A combined night and day driving mirror for motor vehicles, comprising a plurality of mirror surfaces having sharply different factors of reflection, means for supporting said mirror surfaces in obtuse angular relation, means for supporting the assembly in such manner that slight angular movement of the unit changes the disposition of the mirrors so as to vary the reflections to a given point.

1,782,000. COLLAR. JOHN N. COLLINS, Rosedale, N. Y. Filed Apr. 2, 1929. Serial No. 351,900. 4 Claims. (Cl. 2—132.)



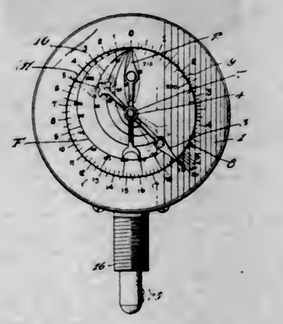
1. A collar including an outer ply, an inner ply, and an interlining ply together with a pocket ply interposed between said inner and outer plies and adjacent said interlining ply, all of said plies being stitched together by a common seam at the extreme edge of the collar, said pocket ply extending around the extreme outer edge of said inner ply and extending rearwardly thereof, and all of said plies being stitched together by a common seam substantially parallel to said first mentioned seam and lying at the rear edge of said pocket ply.

1,782,001. VARIABLE-SPEED MECHANISM. JAMES V. CRICHTON, Philadelphia, Pa., assignor of one-half to Karl Salberg, Philadelphia, Pa. Filed Nov. 29, 1929. Serial No. 410,418. 12 Claims. (Cl. 74—34.)



1. In variable speed drive mechanism, a differential interposed between the drive shaft of a source of power and an aligned shaft to be driven; independent means to drive the floating member of the differential; and a common means operative to control the source of power and for controlling the speed of said independent drive means to govern the floating member of the differential and thereby effect variation in the induced speed of the driven shaft.

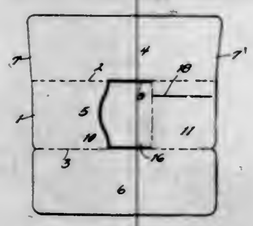
1,782,002. GAUGE. HENRY W. CROWELL, Glen Ridge, N. J. Filed July 2, 1926. Serial No. 120,084. 6 Claims. (Cl. 73—151.)



1. A gauge for indicating air content in a mixture of water vapor and air, comprising means movably responsive to variations in temperature of said mixture, means movably responsive to variations in the pressure of said mixture and having normally a definite relation to said temperature responsive means, whereby changes in said relation indicate variations in the amount of air in said mixture, said responsive means each including a movable indicating member, and the gauge being provided with a dial or chart having a scale to cooperate with both said members and containing temperature graduations and pressure graduations arranged in relations corresponding to those of the actual respective temperatures and

pressures of a pure water vapor, said dial or chart also having a plurality of curves each representing a certain percentage of air content in a mixture of water vapor and air so that the curve nearest the point on one of said indicating members at a distance from said scale equal to the distance between said two indicating members is indicative of the approximate percentage of air in the mixture.

1,782,003. COMBINATION POCKETBOOK. BARNETT EPSTEIN, New York, N. Y. Filed Oct. 11, 1929. Serial No. 398,894. 3 Claims. (Cl. 150—38.)



2. In combination, a pocket book consisting of a plurality of sections arranged in parallel relation to define a plurality of pockets and provided with an opening, and further provided with a slit contiguous to said opening, and a memorandum pad having a portion inserted through said slit to have a detachable interlocking engagement with the pocket book, said opening communicating with a pocket directly in the rear of said memorandum pad.

1,782,004. MESH CHAIN AND METHOD OF MAKING SAME. WILLIAM FORSTNER, Irvington, N. J., assignor to Forstner Chain Corporation, Irvington, N. J. Filed May 29, 1929. Serial No. 366,830. 2 Claims. (Cl. 245—10.)

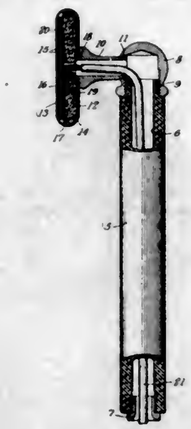


1. The method of manufacturing ornamental flexible band chains, which consists in weaving a web of solder-filled wires and uniting to the marginal edges thereof ornamental border chains consisting of a flexible series of hollow spheres connected by uniformly spaced links, and passing the said band chain and border chains when disposed in close proximity together over a zone of heat sufficient to cause the solder to flow from the wires to the links and spheres of the border chains throughout the passage thereof through the heat zone.

2. An ornamental flexible mesh chain comprising a woven body formed of solder-filled wires, and ornamental border chains consisting of a flexible series of hollow spheres connected by uniformly spaced links and united to the edges of the said woven body by the melted solder contained in the said wires.

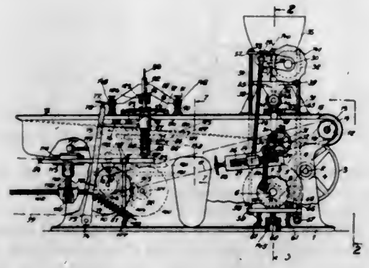
1,782,005. MASSAGING DEVICE. JOSEPH GRISON, New York, N. Y. Filed Apr. 30, 1930. Serial No. 448,476. 1 Claim. (Cl. 128—62.)

A massaging device, comprising a flat metal casing, a plurality of disks of insulating material positioned in the casing, a plurality of interrupted bands of conducting material deposited on one of the disks, each of said bands being connected at its ends to adjacent bands, means for supplying electrical current to the bands, said bands being distributed to apply heat evenly to one flat wall of the



casing, and a packing of insulating material interposed between the discs and the opposite wall to maintain the discs firmly against the wall being heated.

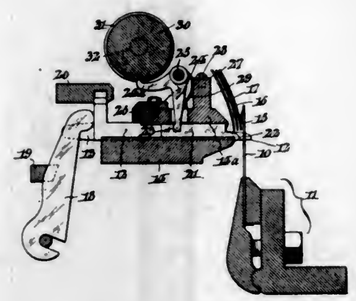
1,782,006. AUTOMATIC DOUGH DIVIDING AND WORKING MACHINE. OTTO KREMMLING, Hamersleben, near Oschersleben, Germany. Filed July 10, 1926, Serial No. 121,561, and in Germany July 11, 1925. 10 Claims. (Cl. 107—9.)



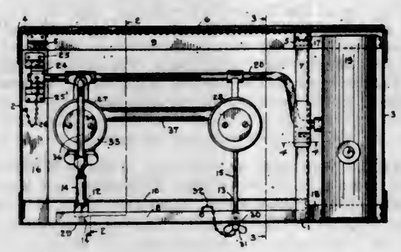
7. A machine of the class described, comprising a traveling conveyer, means for delivering dough portions to said conveyer successively, a dough-working mechanism arranged adjacent to a different portion of the conveyer to co-operate with such conveyer portion in working the dough portions thereon, and movable bodily with the conveyer during the working period of such dough-working mechanism, and means for moving said mechanism, at the end of such period, first away from the conveyer and then lengthwise thereof in a direction opposite to the movement of the conveyer.

1,782,007. KNITTING MACHINE. JEAN LOUIS LE GORRE, York, Pa. Filed Apr. 6, 1928. Serial No. 267,816. 10 Claims. (Cl. 66—89.)

1. In a flat knitting machine, a series of spring beard needles, individually associated independently-slidable pressers to close the needle beards incidental to loop formation, pivoted actuating fingers articulated to the pressers instrumental in moving the same into and out of active position, and a rotary cylinder with surface variations adapted to be over-travelled by the fingers in selectively controlling the pressers and thereby governing the performance of corresponding needles for fashioning purposes.



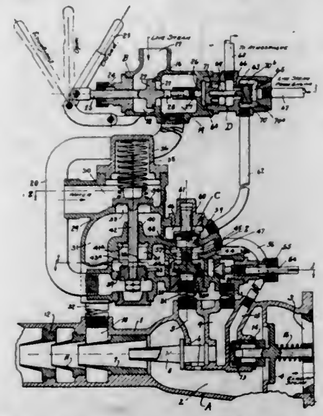
1,782,008. PORTABLE HYDROCARBON STOVE. WALTER C. LINDEMANN, Milwaukee, Wis., assignor to A. J. Lindemann & Hoverson Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed July 22, 1927. Serial No. 207,651. 4 Claims. (Cl. 126—38.)



1. The combination of a supporting frame comprising longitudinal and lateral members having open recesses therein, a fuel supply tank, a fuel supply conduit, a burner connected with said conduit and valve carrying structure all rigidly connected to form a unit and removably supported in said recesses by said frame, one of said lateral members forming a partition to isolate the tank from the burner and intercept the radiation of heat from the latter to the former.

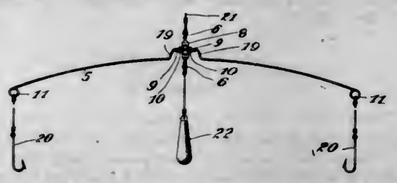
1,782,009. EXHAUST-STEAM INJECTOR. NEAL T. MCKEE, Bronxville, N. Y., assignor to The Superheater Company, New York, N. Y. Filed Mar. 3, 1927. Serial No. 172,367. 13 Claims. (Cl. 103—265.)

1. An exhaust steam injector control system of the type wherein a main control valve located at a point remote from the injector governs the admission of live steam to a plurality of fluid pressure actuated valves for admitting water, exhaust steam, and live steam to the injector, said valves including an automatic valve governing the admission of auxiliary live steam to the injector, characterized by the provision of a single conduit leading from said main control valve and terminating at said injector for supplying live steam to operate both the injector and said valves, a branch conduit leading from said single conduit for supplying supplementary live steam to the injector, a manually adjustable valve located in said branch conduit, a second branch conduit controlled by said automatic valve leading from said single conduit to the injector, and a third branch



conduit leading from said single conduit to the fluid pressure actuated valve controlling the admission of exhaust steam.

1,782,010. FISHHOOK SPREADER AND METHOD OF MAKING THE SAME. HAROLD W. MEYER, Brooklyn, N. Y. Filed Jan. 24, 1929. Serial No. 334,627. 3 Claims. (Cl. 43—28.)



1. A fish hook spreader comprising a length of wire having fish hook attaching means on its opposite ends and provided with an offset loop in the central portion thereof, a line attaching member loosely engaged upon the bight portion of said loop for free rotation thereon, and sleeves loosely engaged on the bight portion of said loop at opposite sides of said member for free rotation with or independently of said member and to prevent axial shifting of said member from its centered position with respect to the loop.

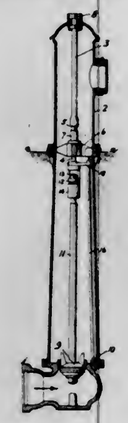
1,782,011. METHOD FOR PRESERVING EMULSIONS. ALBERT MUSHER, Washington, D. C. Filed Oct. 26, 1928. Serial No. 315,349. 2 Claims. (Cl. 99—11.)

1. A method of stabilizing packaged emulsified food products of the salad dressing type comprising substantially filling the remaining space between the surface of the food product and the closure with relatively inert material having relatively the same properties as wax.

1,782,012. HYDRANT. EDWIN D. RATTIGAN, Philadelphia, Pa. Filed May 5, 1928. Serial No. 275,268. 2 Claims. (Cl. 137—18.)

1. A hydrant comprising a sectional housing, a sectional valve rod having between its sections a detachable coupling, a rod guide clamped between the flat faces of flanges provided on the sections of the housing, main valve mechanism, the lower section of the valve rod attached at one end to the main valve and guided at the other end by the rod guide, a lost motion connection for

vertical movement between the lower and the adjacent section of the rod, an auxiliary valve having a stem guid-



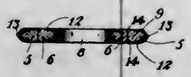
ed in said rod guide, and a connection for actuating said auxiliary valve attached to said adjacent section of the valve rod above the lost motion connection.

1,782,013. ARRANGEMENT OF ENGINES ON AIRCRAFT. ADOLF ROHRBACH, Berlin-Wilmersdorf Germany, assignor to Rohrbach Patents Corporation, a Corporation of Delaware. Filed Sept. 4, 1926, Serial No. 133,652, and in Germany Sept. 18, 1925. 23 Claims. (Cl. 241—31.)



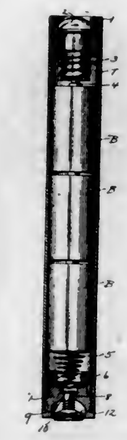
21. In an airplane, the combination of a lifting wing and an engine supporting frame suspended from said wing including a multi-point connection with the wing including a three-point connection with the wing bottom surface and at least one other connection at a higher level, together with a streamlined covering for the engine which merges into the wing surface.

1,782,014. PACKING GASKET. JOSEPH RIMMELSPACHER, Newark, N. J. Filed Aug. 10, 1927. Serial No. 211,916. 1 Claim. (Cl. 288—1.)



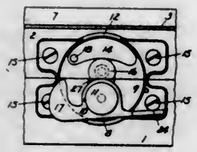
A packing gasket consisting of two flexible strips of packing material of circular form nested one within the other, and each having its ends in abutting contact, and the abutting ends of the packing strips being disposed out of radial alignment with each other, and annular sheet metal casing members of substantially semicircular form in cross section, each open at one circumferential side thereof, and receiving a portion of one of the packing strips at the inner and outer edges respectively of the gasket, the side walls of said sheet metal members extending upon the opposite side faces of the respective packing strips, the opposed edges of the inner and outer members being spaced apart and embeded in the packing material of the respective strips, the exposed portions of the packing strips at opposite sides of the gasket having their surfaces disposed in substantially the same plane as the faces of the side walls of said sheet metal members.

1,782,015. FLASH LIGHT. WILLIAM B. SACHS, Jamaica, N. Y. Filed Apr. 3, 1929. Serial No. 352,075. 3 Claims. (Cl. 240—10.5.)



1. A flashlight device comprising a casing having a first insert located therein and also having a second insert located therein and spaced from said first insert, a bulb located in the first insert and provided with contacts, a spring located adjacent the second insert and adapted to hold a battery so that one of the contacts of said battery touches one of the contacts of said bulb and the other of said contacts is electrically connected to said holding spring, and a plunger movably located in the second insert and adapted to contact with the adjacent end of the holding spring, the second insert being electrically connected to the other contact of said bulb.

1,782,016. WINDOW FASTENER. ARTHUR N. SANDERSON and FRANK H. DANA, West Springfield, and KARL G. VOGEL, Mittineague, Mass. Filed Jan. 26, 1929. Serial No. 335,289. 7 Claims. (Cl. 292—241.)

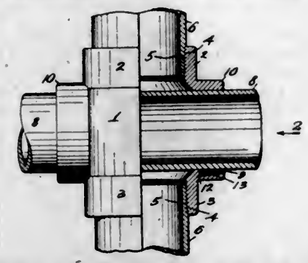


1. The combination, in a window fastener, with a base attachable to the meeting-rail of an upper window sash, and provided with a post, of a base attachable to the meeting-rail of the associated lower window sash, a guard plate movable on said second-named base, a latch pivotally connected with said second-named base, and having a part to engage and release said post, and cam-operating means to move said plate toward and away from said first-named base as said latch is swung into operative and inoperative position.

1,782,017. RAIL FITTING. WILLIAM SHANKS, Brooklyn, and WILLIAM B. CATER, Douglaston, N. Y., assignors to Vulcan Rail and Construction Company, Maspeth, Long Island, N. Y., a Corporation of New York. Filed Dec. 18, 1925. Serial No. 76,138. 1 Claim. (Cl. 287—54.)

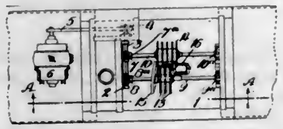
In a rail fitting, the combination of a coupling member having a longitudinal sleeve capacitated to receive a

rail and means for supporting the coupling, a rail positioned in the longitudinal sleeve, a relatively narrow recess extending longitudinally of the rail sleeve and having a bottom inclined toward the vertical axis of the cou-



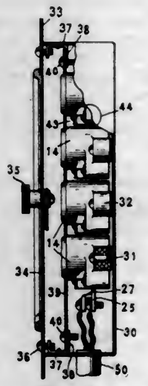
pling and inwardly diverging side walls, and a rail locking member comprising a single piece of deformable metal dimensioned to substantially fill the recess and driven therein and engaging the rail and sleeve to lock the rail in its sleeve.

1,782,018. DEVICE FOR CLEANING AND WASHING CROCKERY AND THE LIKE. FRANK STAINES, London, England. Filed Oct. 4, 1927, Serial No. 223,894, and in Great Britain Nov. 6, 1926. 5 Claims. (Cl. 15—74.)



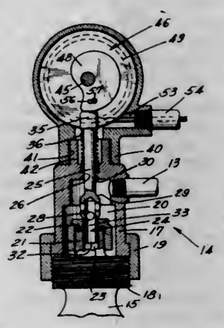
1. A device for washing crockery and the like, comprising a tank, rotary cleaning members in said tank, to engage the opposite faces of an article, means for supporting and rotating the article including a revolving cam member for imparting a reciprocating motion to said article transversely to the acting surfaces of said cleaning members.

1,782,019. FUSE CABINET OR PANEL BOARD. FRANK T. WHEELER, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a Corporation of Connecticut. Filed Mar. 25, 1926. Serial No. 97,196. 7 Claims. (Cl. 175—183.)



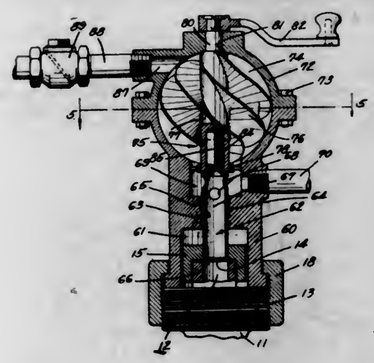
1. A panel board unit including a base of insulating material having channels in the back to receive and to cover co-operating bus bars, fuse contacts mounted on said base each including a terminal at one edge of each end of the base, a shoulder on said base between said terminals and at a higher plane than said terminals and a bus bar terminal on said shoulder, the said shoulder co-operating with one side of a similar unit to form a channel for wires between the fuse receptacle and the said similar unit.

1,782,020. HEAD FOR PUNCTURING CLOSURE DISKS. SCOTT E. ALLEN and OZRO N. WISWELL, Los Angeles, Calif., assignors, by mesne assignments, to C-O-Two Fire Equipment Company, Los Angeles, Calif., a Corporation of California. Filed Jan. 30, 1929. Serial No. 336,156. 7 Claims. (Cl. 221—73.5.)



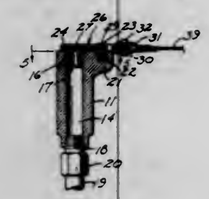
4. A device for use on a container having an outlet closed by a closure including, a body, a member carried by the body operable to open the closure, and a unit detachably connected with the body and said member including a cam operatively engaging said member and a pulley for operating the cam.

1,782,021. GAS-OPERATED SCREW-TYPE HEAD FOR PUNCTURING CLOSURES. SCOTT E. ALLEN and OZRO N. WISWELL, Los Angeles, Calif., assignors, by mesne assignments, to C-O-Two Fire Equipment Company, Los Angeles, Calif., a Corporation of California. Filed Jan. 30, 1929. Serial No. 336,157. 9 Claims. (Cl. 221—73.5.)



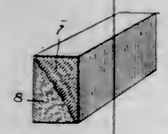
1. In a device for use in connection with a container having a closure for closing the opening thereof, the combination of: a puncturing member, means whereby said puncturing member is adapted to be advanced by rotation to puncture said closure; and a fluid-operated rotor for causing operation of said means.

1,782,022. GAS-PRESSURE MEANS FOR RELEASING CONNECTIONS. SCOTT E. ALLEN and OZRO N. WISWELL, Los Angeles, Calif., assignors, by meane assignments, to C-O-Two Fire Equipment Company, Los Angeles, Calif., a Corporation of California. Filed May 20, 1929. Serial No. 364,523. 9 Claims. (Cl. 74—93.)



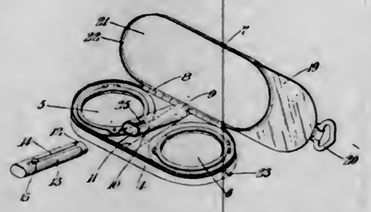
1. In a fluid pressure operating device, the combination of: a body having a fluid opening formed therein; a releasable member to be moved by a jet of fluid issuing from said fluid opening; a primary holding member on said body; and a secondary holding member on said member adapted to engage said primary holding member to form a releasable connection therewith, said connection being releasable by the movement of said member.

1,782,023. REFRACTORY STRUCTURE. FRANCIS L. ARENSBERG, Pittsburgh, and ARTHUR J. JACKMAN, Forest Hills, Pa., assignors to Vesuvius Crucible Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Feb. 8, 1929. Serial No. 338,459. 12 Claims. (Cl. 72—36.)



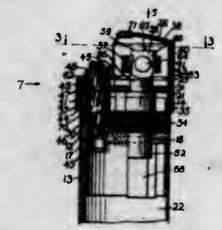
1. A refractory structure comprising materials of different degrees of susceptibility to spalling, one face of the structure being predominantly of material of relatively less susceptibility to spalling, the ratio of such material to material of relatively greater susceptibility to spalling decreasing progressively and substantially continuously throughout a substantial portion of the structure in the direction of its depth.

1,782,024. VANITY CASE. LOUIS V. ARONSON, Newark, N. J., assignor to Art Metal Works, Inc., a Corporation of New Jersey. Filed Apr. 26, 1928. Serial No. 272,903. 13 Claims. (Cl. 132—83.)



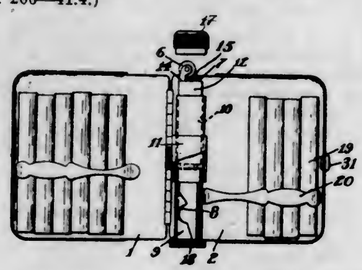
1. A vanity case having cosmetic holding means therein and a cover hinged thereto, said cover having a thin compartment therein with an opening to the compartment at the edge of the cover, a mirror removably inserted in said compartment, and latching means having one part attached to the mirror and a cooperating part attached to the body of the case.

1,782,025. CIGAR AND CIGARETTE LIGHTER. LAWRENCE D. BELL, Los Angeles, and JOHN C. ROMBACH, Glendale, Calif.; said Rombach assignor to said Bell. Filed July 31, 1928. Serial No. 296,538. 17 Claims. (Cl. 67—7.1.)



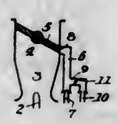
7. A lighter comprising in combination a container having a top, a wick tube extending therethrough having a wick therein, a snuffer tube slidably mounted thereon, a flint wheel mounted above the top, a flint holder adjacent thereto, a cover having a fixed inner section with a portion partly cylindrical having an opening at one side to expose the wick and an outer rotatable cover connected thereto on an axis parallel to the wick tube, the outer cover having a partly cylindrical section adapted to fit over the fixed cover or to form a closure for the wick, and a cam interconnecting the rotatable outer cover and the snuffer tube to slide said tube longitudinally on the rotation of the rotatable cover.

1,782,026. COMBINATION CIGARETTE CASE, LIGHTER, AND ASH TRAY. DAVID S. BEYER, Boston, Mass. Filed Mar. 16, 1929. Serial No. 347,580. 4 Claims. (Cl. 206—41.4.)



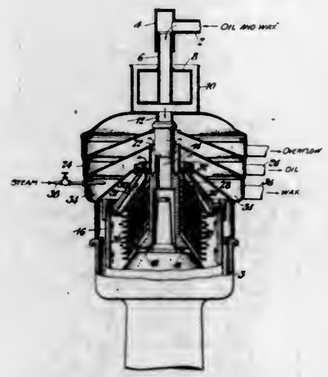
1. A combination smoking unit including a casing comprising a pair of hinged covers having portions of their adjacent edges cut away to form openings on opposite edges of the casing, and a member mounted in said casing and aligned with said opposite openings and comprising at one end a lighting unit and at the other end an ash receiving unit each exposable through its adjacent opening, said casing members comprising independent cigarette retaining chambers.

1,782,027. CARBURETOR. ANTONIN BOULADE, Lyon, France, assignor to Societe du Carburateur Zenith, Lyon, France, a Corporation of France. Filed Aug. 31, 1926, Serial No. 132,692, and in France Sept. 18, 1925. 1 Claim. (Cl. 123—179.)



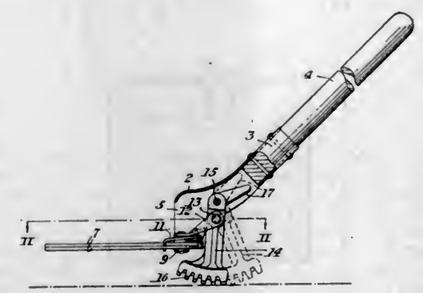
A carburetor having a slow speed channel with a nozzle therein, an auxiliary channel connected to the slow speed channel, and an independent nozzle adapted to supply fuel to the auxiliary channel, both of said nozzles being above the fluid lever in the carburetor.

1,782,028. PROCESS AND APPARATUS FOR DEWAXING OILS. ELI F. BURCH, Laurel Springs, N. J., assignor to Crew Levick Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 14, 1927. Serial No. 175,022. 11 Claims. (Cl. 233—11.)



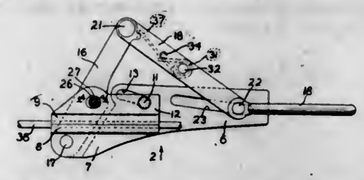
1. The process of separating wax from chilled mineral oil containing wax in suspension, which comprises continuously introducing the mixture of oil and wax into a centrifugal separator bowl whereby the wax is separated from the oil in an outer layer surrounding the oil, applying gaseous heating medium to the outer surface of the separator bowl whereby said layer of wax is melted and separately discharging said separated oil and melted wax from said separator.

1,782,029. GARDEN SHEARS. HAROLD W. CLARK, Alliance, Ohio, assignor to The Alliance Manufacturing Company, Alliance, Ohio, a Corporation of Ohio. Filed Oct. 12, 1929. Serial No. 399,267. 9 Claims. (Cl. 56—241.)



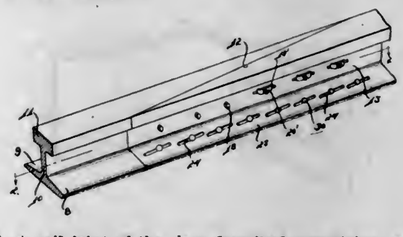
1. A garden shear comprising a shear blade and a pivoted foot adapted to engage the ground, the foot being operatively connected to the shear blade so as to actuate the same on forward movement of the shear.

1,782,030. GRIPPING DEVICE. ODIE OSON COLLINS, Riverside, Calif. Filed July 15, 1929. Serial No. 378,518. 10 Claims. (Cl. 24—134.)



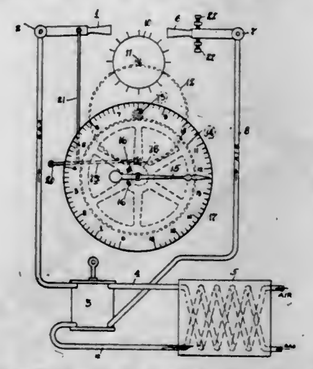
1. In a gripping device, a pair of jaws movable relatively to each other, actuating means associated with said jaws, and means operable by said actuating means for initially moving one of said jaws perpendicularly and subsequently in arcuate motion away from the other jaw.

1,782,031. RAIL. GEORGE R. DOUGLAS, Detroit, Mich. Filed Oct. 12, 1929. Serial No. 399,380. 3 Claims. (Cl. 238—237.)



2. A rail joint of the class described comprising: a pair of overlapping rails, each of said rails having at its overlapped portion a diagonally extended face lying in a vertical plane engaging the diagonally extending face of the cooperating rail; a base flange projecting outwardly from the outer side of each of said rails at said overlapping portion; and means operable on the base flange of said rails inwardly of the outer edges thereof for moving the same laterally of each other upon expansion and contraction.

1,782,032. METHOD OF AND APPARATUS FOR GAS ANALYSIS. HERBERT H. DOW, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed July 28, 1926. Serial No. 125,559. 22 Claims. (Cl. 265—44.)



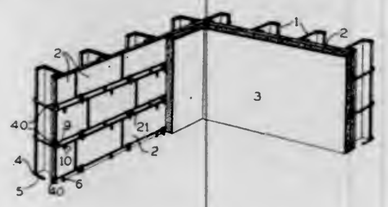
1. In a method of indicating variations in density of a certain gas, the steps which consist in directing alternating opposing blasts of said gas and of another gas of substantially unvarying density upon an element movable in either direction, and employing the movements of said element to indicate the density of said certain gas.

1,782,033. MAGNETIC RAZOR-CONDITIONING DEVICE. JOHN S. FORBES, Philadelphia, Pa., assignor, by mesne assignments, to Yates & Grant, Inc., Detroit, Mich., a Corporation of Michigan. Filed Mar. 17, 1927. Serial No. 176,195. 8 Claims. (Cl. 132—80.)



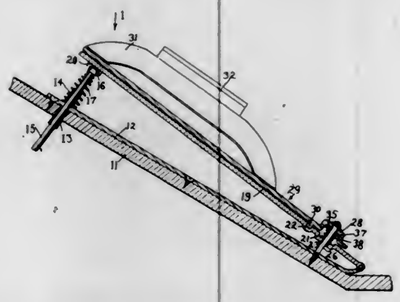
1. A device of the character described comprising a bar magnet with engagement means for coacting with a safety razor mounting extending alongside thereof to maintain the blade of said razor in magnetic treating position with respect to said magnet.

1,782,034. WALL. OSCAR L. GENT, Tulsa, Okla. Filed Nov. 21, 1928. Serial No. 320,946. 5 Claims. (Cl. 72—46.)



2. A wall consisting of a series of vertical studs, sheets of plaster board placed against the studs, reinforcing members running horizontally between the sheets of plaster board and contacting with the studs; flexible integral wire clips formed of body portions and oppositely extending prongs, said body portions partly encircling the vertical studs and said prongs extending in parallelism with the studs whereby the plaster boards sheets and the reinforcing members may be placed between the prongs and the studs and thereby held in position without any mutilation thereof and regardless of the positions of the several joints between the sheets of plaster board.

1,782,035. FOOT THROTTLE. PETER A. GIANERA, Torrance, Calif. Filed July 2, 1928. Serial No. 289,995. 8 Claims. (Cl. 74—81.)

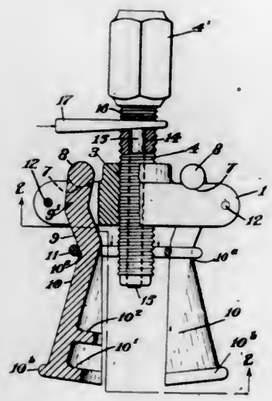


1. A foot throttle having in combination a movable under pedal with means connected therewith to actuate a throttle, an upper pedal mounted thereon to move in a direction transverse to that of the under pedal, and means actuated by the upper pedal to operate the lower pedal to actuate the throttle.

1,782,036. HEAT PLASTIC COMPOSITION. HAROLD GRAY, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Apr. 27, 1927. Serial No. 187,112. 5 Claims. (Cl. 106—23.)

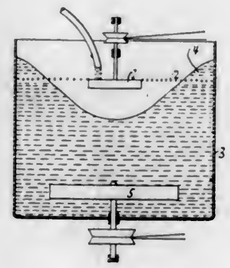
1. A composition of matter comprising a heat plastic rubber isomer having a less chemical unsaturation than rubber and lead salt of a higher fatty acid.

1,782,037. WHEEL PULLER. GEORGE W. GREBENSTEIN, Newtonville, Mass. Filed May 2, 1929. Serial No. 359,828. 4 Claims. (Cl. 29—85.)



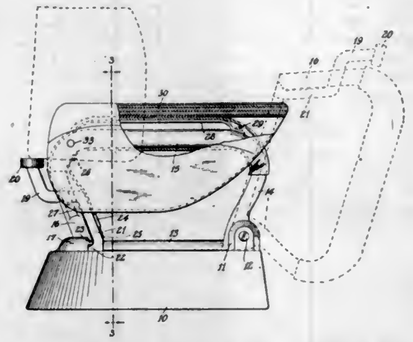
2. A wheel puller or the like comprising a frame having a central threaded bearing and a pair of jaw supports on each side thereof said supports having trunnion bearings on their upper faces, a pair of jaws each having a trunnion at its upper end and supported in said bearings, said jaws having tapered outer faces and flange engaging inner faces, a closing ring slidably retained about said jaws, a thrust screw threaded in said bearing, a drive pin axially of said screw and a driving key disposed through said screw and having a driving contact with said pin.

1,782,038. CONVERSION OF SALTS INTO GLOBULAR OR SIMILAR SHAPED BODIES. BODO HAAK, Neuroessen, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Nov. 19, 1928, Serial No. 320,445, and in Germany Dec. 13, 1927. 12 Claims. (Cl. 23—102.)



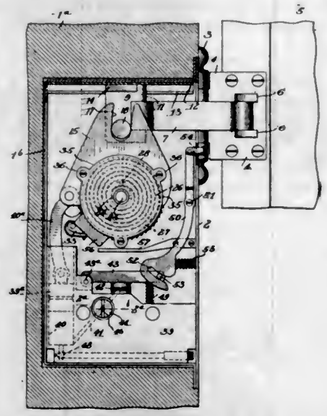
1. The process for the conversion of salts into globular or similar shaped bodies, which comprises dropping the fused salt into a cool liquid not dissolving said salt and set into rotation around a vertical axis within the liquid.

1,782,039. FLATIRON. WILLIAM H. HAWKES, New York, N. Y. Filed Mar. 26, 1929. Serial No. 349,929. 3 Claims. (Cl. 68—26.)



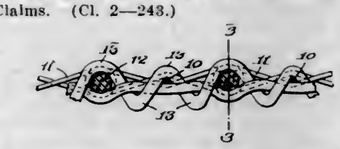
1. The combination with a flat iron having a body, a handle pivoted at one end thereto, and a lever carried by the handle to engage the opposite end, of a cushion pad pivoted to said handle, means for releasing said lever when the pad is turned upon its pivot, and a single flat spring intervening the upper surface of the handle and pad throughout their length.

1,782,040. DOOR-CONTROL APPARATUS. REUBEN HILL, Detroit, Mich., assignor to Sargent & Greenleaf, Inc., Rochester, N. Y., a Corporation of New York. Original application filed Aug. 23, 1927, Serial No. 214,969. Divided and this application filed Aug. 31, 1928. Serial No. 303,299. 16 Claims. (Cl. 16—66.)



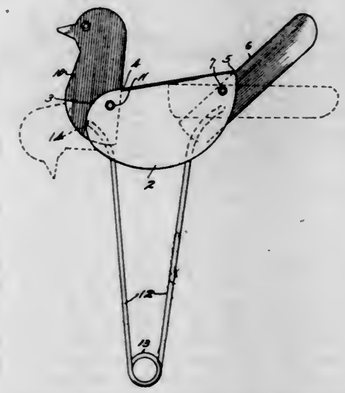
1. A door control device, comprising a casing, an element pivotally mounted in said casing and having a spring connected therewith through which force is transmitted to close the door, an operating member for said element arranged to slide thereon during operation thereof, a supporting guide for the operating member on which the latter is free to slide, a second spring in said casing having a contact surface, and a lug on said element adapted upon rotation of said element to engage said surface whereby said second mentioned spring will operate to oppose or retard the rotation of said element during a portion of its movement through engagement of the lug and will quicken the action for the rest of its movement to effect a quickened movement of the door when approaching extreme closed position.

1,782,041. ELASTIC WEBBING. JOSEPH HIRSCH, Yonkers, N. Y., assignor to Kops Bros. Inc., a Corporation of New York. Filed Jan. 22, 1927. Serial No. 162,698. 3 Claims. (Cl. 2—243.)



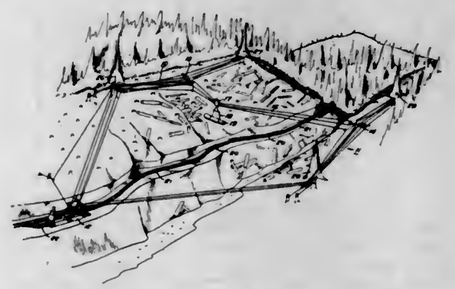
1. In an elastic webbing, inelastic threads forming the body of the webbing, spaced elastic strands at intervals between the inelastic threads, and a line of lock stitches binding a portion of each elastic strand on both sides thereof to adjacent portions of the inelastic threads to prevent the elastic strands from pulling through the inelastic threads.

1,782,042. TOY BIRD. VICTOR V. KUNKEL, Los Angeles, Calif. Filed Feb. 4, 1929. Serial No. 337,335. 3 Claims. (Cl. 46—40.)



1. An animated toy, simulative of a natural creature, including a main body, appendages pivoted on the body, and a spring forming a yoked handle and having a plurality of shanks having ends directly and operatively connected to respective appendages; the appendages and the shanks being pivoted one on the other.

1,782,043. LOGGING SYSTEM. DAVENPORT LAWSON, Elk, Calif., assignor to Goodyear Redwood Co., Elk, Calif., a Corporation of Maine. Filed July 24, 1926. Serial No. 124,570. 7 Claims. (Cl. 214—19.)

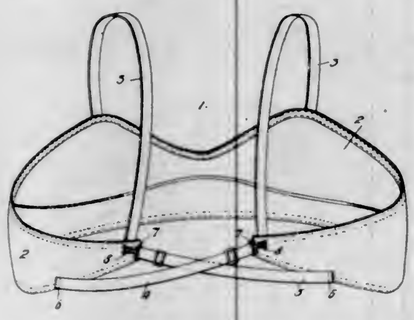


1. In a system of the class described, a traversing carriage comprising a frame, a sheave journaled within said

frame for tracking the same on a cable, a triangle pivotally secured to one end of said frame, and blocks secured to the corners of said triangle.

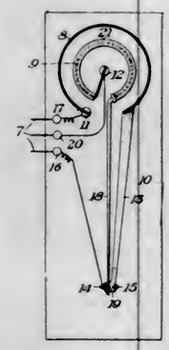
7. In a logging system, a yarder having a plurality of winding drums, horizontally spaced tracking cables, a pair of traversing carriages engaging the tracking cables, haul cables for effecting movement of said traversing carriages, one of said carriages being a lead carriage comprising a frame having a tracking sheave, a beam pivotally secured to said frame, sheaves carried by said beam and means for stabilizing the movement of said beam, a hoist carriage, and a hoist cable for controlling said hoist carriage engaging the sheaves in said beam.

1,782,044. BRASSIÈRE. BERNARD LUSTGARTEN, New York, N. Y. Filed Mar. 6, 1929. Serial No. 344,637. 1 Claim. (Cl. 2—42.)



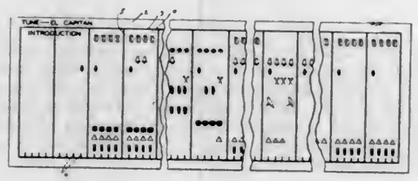
In an article of the class described, a band with ends at the back shoulder straps connecting the ends at the back with the front, elastic bands at the lower edge of the band one near each rear end, each elastic band having a hook at its free end and an eye secured to the band adjacent to each of the rear shoulder strap ends and adapted to engage a hook on the elastic band secured to the other end of the band so that when the brassière is in use, it will be held firm and true in place and an upward thrust of the breasts of the wearer is accomplished.

1,782,045. THERMOSTAT AND SIMILAR CONTROL MECHANISM. MAX MASON, Chicago, Ill., assignor of thirty per cent to Louis B. Slichter, thirty per cent to Donald L. Hay, and ten per cent to Donald C. Slichter, Madison, Wis. Filed Apr. 20, 1926. Serial No. 103,394. 8 Claims. (Cl. 236—1.)



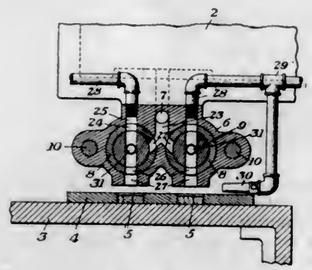
1. A thermostat comprising two sensitive thermo-responsive elements connected so that each tends to neutralize the effect of the other, the elements, however, having unequal effects in the operation of the thermostat for a given temperature change of whatever rapidity to which both elements may be subjected, whereby the thermostat responds to any variation in temperature whether rapid or slow, the element having the lesser effect being heat-insulated whereby its counteracting effect is less and the thermostat's response therefore greater for rapid than for slow variations in temperature to which the thermostat is subjected.

1,782,046. RHYTHMIC CHART FOR CHILD ORCHESTRATION. MARY E. MAYBERRY, Burlingame, and EDITH A. HILL, San Francisco, Calif. Filed Nov. 5, 1927. Serial No. 231,279. 5 Claims. (Cl. 283—47.)



1. As an article of manufacture a rhythmic chart comprising an elongated sheet inscribed with spaced marks designating measures of a piece of music, said measures uniformly graduated with spaced sub-marks designating the beats of the measures, and aligned with said sub-marks a series of symbols of various sound instruments.

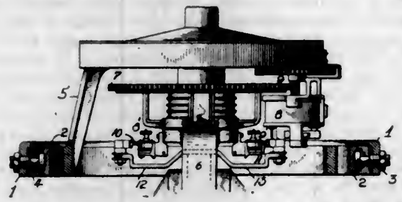
1,782,047. SLUG-CASTING MACHINE. JOHN A. MCGINNIS, Wheeling, W. Va., assignor to Wheeling Stamping Company, Wheeling, W. Va., a Corporation of West Virginia. Filed May 27, 1927. Serial No. 194,680. 10 Claims. (Cl. 22—209.)



1. In a slug casting machine, a hot metal holder, a casting valve having a hot metal receiving opening therein for intermittently dispensing a measured quantity of metal from the holder, and means for supplying a non-oxidising gas to the opening in the valve.

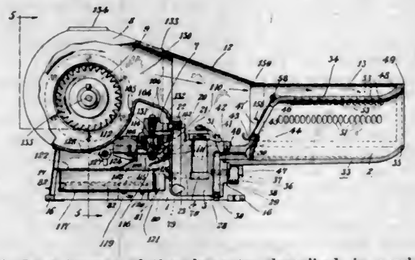
CARNEGIE LIBRARY OF ATLANTA

1,782,048. GYROCOMPASS REVERSING CONTACT. CHESTER B. MILLS, Brooklyn, N. Y., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a Corporation of New York. Original application filed Mar. 15, 1921, Serial No. 452,505. Divided and this application filed Dec. 27, 1922. Serial No. 609,329. 5 Claims. (Cl. 200—52.)



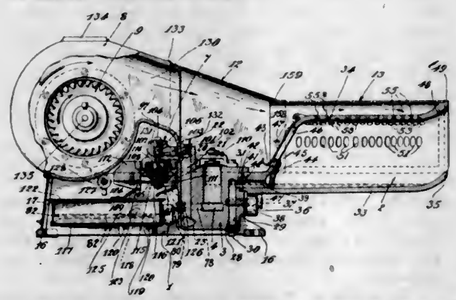
1. An electrical contact wheel composed of an aluminum hub and web, the former having a German silver bearing block and a bracket supporting the wheel having Monel metal bearing pins thereon for the wheel.

1,782,049. BURNER FOR PRODUCING HEAT FROM LIQUID FUEL. MILTON A. POWERS, New York, N. Y., assignor, by mesne assignments, to The Timken-Detroit Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 25, 1927. Serial No. 215,494. 29 Claims. (Cl. 158—92.)



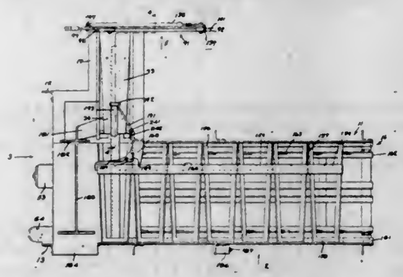
1. In a burner of the character described, in combination, a tray for liquid fuel, means for maintaining a pool of liquid fuel on said tray, means for sweeping a stream of air first downwardly to the edge of said fuel pool and then inwardly across said fuel pool, to entrain fuel vapor from the pool, and means for igniting the mixture of air and vapor.

1,782,050. METHOD OF LIQUID-FUEL HEATING. MILTON A. POWERS, New York, N. Y., assignor, by mesne assignments, to The Timken-Detroit Company, Detroit, Mich., a Corporation of Michigan. Original application filed Aug. 25, 1927, Serial No. 215,494. Divided and this application filed Feb. 1, 1928. Serial No. 251,202. 23 Claims. (Cl. 158—117.5.)



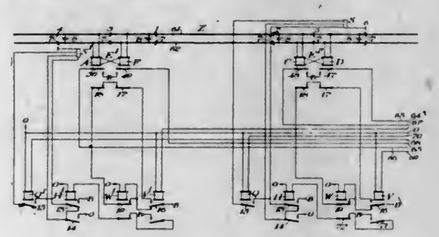
1. The method of burning liquid fuel which includes first bathing all exposed interior portions of the combustion chamber with entering air, and then rolling said air against the surface of a pool of liquid fuel transverse to the fuel flow in the presence of a flame to produce a flaming combustible mixture of vapors from the fuel pool and said air.

1,782,051. TILE MACHINE. BURT R. SIMMONS, Palms, Calif. Filed Jan. 26, 1929. Serial No. 335,219. 20 Claims. (Cl. 25—42.)



1. A tile machine comprising a pallet adapted to receive an end of a ribbon of plastic tile forming material, means for severing a predetermined length of said material on said pallet from the ribbon, a tray, means for moving said pallet to deposit said severed length of material thereon, and means for returning said pallet to receiving position.

1,782,052. TRAIN-COUNTING APPARATUS. PAUL P. STOKER, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Jan. 16, 1930. Serial No. 421,145. 4 Claims. (Cl. 246—21.)

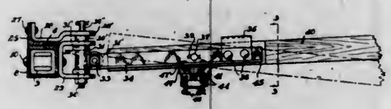


1. In combination, a stretch of railway track, a signal governing traffic into said stretch, a plurality of normally energized counting relays, means for successively deenergizing said relays in one order as successive trains enter said stretch, means for successively re-energizing said relays in the reverse order as successive trains leave the stretch, a main relay and a proceed relay for said signal, a circuit for said main relay including front contacts of all of said counting relays in multiple, a circuit for said proceed relay including a front contact of only the first of said counting relays, a caution indication circuit for said signal controlled by said main relay, and a proceed indication circuit for said signal controlled by both said main and said proceed relays.

1,782,053. MANURE SPREADER. HENRY SYNCK, Coldwater, Ohio, assignor to The New Idea Spreader Company, Coldwater, Ohio, a Corporation of Ohio. Original application filed Mar. 14, 1924, Serial No. 699,385. Divided and this application filed Mar. 19, 1927. Serial No. 176,780. 4 Claims. (Cl. 280—103.)

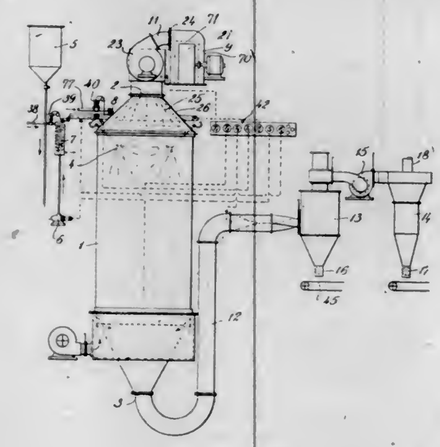
1. In a structure of the character described, an axle, wheel spindles pivotally connected with said axle, a pair

of angle iron draft members pivotally connected with said axle by a vertical pivot, a tongue connected with said draft members, a metal bracket extending across and



connected with said draft members, connections pivotally connected with said spindles and with said bracket, the ends of said bracket being extended beyond said draft members to cooperate with said axle to form stops.

1,782,054. METHOD AND APPARATUS FOR PROCESSING MATERIALS BY MEANS OF GASES. BEN FOREST UHL, Richmond Hill, New York, N. Y., assignor to Industrial Spray-Drying Corporation, New York, N. Y., a Corporation of Delaware. Filed Sept. 1, 1927. Serial No. 216,809. 21 Claims. (Cl. 159—4.)



1. In a spray processing apparatus the combination with a treating chamber wherein a flow of treating gas in one general direction is maintained, of means for continuously delivering a current of treating gas to said chamber, and means comprising a plurality of gas conducting passages of substantial length and substantially free from abrupt changes in direction or in cross sectional area for receiving the incoming treating gas, conducting said gas in a plurality of separate streams to specified discharge areas arranged across a section of the treating chamber substantially transversely to the general direction of flow through said chamber, which areas combined are substantially larger than the cross sectional area of the incoming gas current at the point where it is divided into said plurality of streams, and discharging said plurality of gas streams substantially transversely of said respective discharge areas, whereby a positive distribution of the said gas is effected across the treating chamber and a flow of said gas having no substantial component at right angles to the general direction of flow through the chamber is obtained.

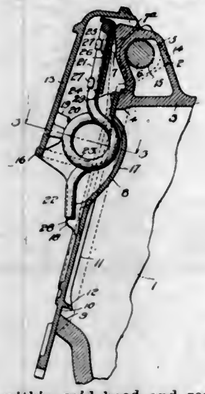
9. Material processing apparatus of the general class described which comprises a treating chamber, means for continuously introducing materials to be processed into said chamber in finely divided condition, means for heating treating gas for introduction into said chamber, a fan for passing a continuous current of said heated treating gas into said chamber, substantially independently of the operation of the other parts of the apparatus, means for controlling the amount of treating gas delivered by said fan so that any desired quantity at any desired gas temperature may be supplied to the treating chamber, a fan for positively withdrawing from said heating chamber a current of spent gas, means for controlling the amount of gas handled by said fan, inlet means for admitting additional gas to said treating chamber at a point other than the principal inlet for heated treating gas, said treating chamber and other gas conducting parts of the apparatus being substantially gas tight to thereby prevent substantial admission or discharge of gas at points other than the intended points of admission and outlet, whereby the amount of said additional gas may be controlled by controlling the difference in the amounts of gas handled by the discharge and the inlet fans.

20. In a spray processing apparatus comprising a treating chamber and means for delivering treating gas to said treating chamber, a liquid supply system which comprises means for spraying into said chamber liquid material to be treated, a heater for heating said liquid prior to its introduction into the chamber and while it is flowing in a continuous current on its way to said chamber, a temperature control for automatically controlling the temperature of the liquid discharged from said heater to a desired substantially constant value, a steam jacketed liquid line between said heater and said treating chamber for delivering the liquid to said treating chamber at substantially the said desired temperature value, means for supplying heating steam to said line and pressure regulating means for controlling the pressure of said steam whereby the said steam may be controlled to such a pressure that the condensation temperature of said steam is substantially equal to the said desired temperature of the liquid discharged from said heater, the steam supply means being such that the said steam is furnished in ample quantity to insure presence of uncondensed steam in said line at all times.

21. The method of treating materials in finely divided condition by means of gases which comprises establishing a continuously flowing current of treating gas, dividing the said incoming unexpanded current of treating gas into a plurality of separate streams, independently but simultaneously and gradually expanding said several gas streams to larger cross sectional areas of flow, restricting the whirling motion of the gas in each of said expanding streams to effect a substantially straight flow of gas in each of the several streams, discharging said several expanded streams of treating gas into contiguous areas to form a combined resultant continuous current of treating gas of enlarged cross sectional area flowing in a straight, orderly manner without substantial whirling or confusion of flow, dispersing the material to be treated in finely divided condition across said resultant flowing current of treating gas without substantially altering the character of flow of said gas current whereby said material is carried along in finely divided form entrained in dispersed condition in said gas current, and then separating and collecting the material from the gas after a predetermined interval of treatment.

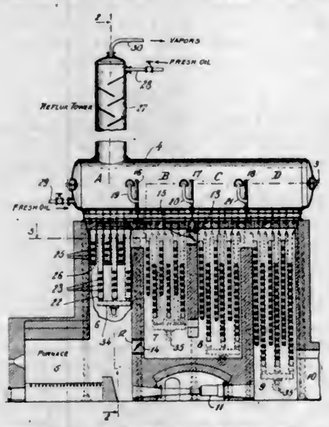
1,782,055. JOURNAL BOX. DONALD S. BARROWS, Rochester, N. Y., assignor, by mesne assignments, to The Symington Company, a Corporation of Maryland. Filed Oct. 30, 1924. Serial No. 746,795. 5 Claims. (Cl. 308—47.)

1. The combination with a journal box having a pivot lug thereon, of a lid pivotally connected thereto, said lid having an imperforate portion completely closing the opening of said journal box, a hood integrally formed on said lid and adapted to partially enclose said pivot lug, said hood serving as pivot means for said lid, a torsion



spring housed within said hood and reacting at opposite ends against the lug and lid and a lug on said lid cooperating with said spring to prevent undesired displacement thereof.

1,782,056. ART OF CRACKING HYDROCARBONS. JOHN E. BELL, Brooklyn, and EDWARD W. ISOM, Locust Valley, N. Y., assignors to Sinclair Refining Company, Chicago, Ill., a Corporation of Maine. Filed Nov. 12, 1924. Serial No. 749,402. 8 Claims. (Cl. 196—49.)



3. A process of cracking hydrocarbon oil, consisting in passing the oil through a heating coil wherein it is subjected to a conversion temperature, in discharging the heated oil into an enlarged conversion chamber, in passing the vapors issuing from said conversion chamber to a dephlegmator, in returning reflux condensate from the dephlegmator to said heating coil, in condensing the vapors issuing from the dephlegmator and in collecting the resulting distillate, in circulating the unvaporized oil from said conversion chamber through an independent heating element wherein it is subjected to a lower temperature than the oil in said coil and back to the conversion chamber, and in maintaining a superatmospheric pressure on the oil undergoing conversion.

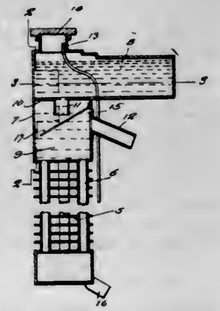
1,782,057. SLEEVE HOLDER. JOHN C. BOLLINGER, Olympia, Wash. Filed Mar. 26, 1929. Serial No. 350,091. 1 Claim. (Cl. 24—137.)

A device of the character specified including elongated members having jaws at corresponding ends and handles at opposite corresponding ends, a loop connected to one of said handles, a ring carried by the loop and adapted to receive an elastic strip, the loop being flexible whereby the ring and strip may partake of a twisting movement relative to the members, said members having transverse grooves in their inner faces forming mating seats, and having corresponding grooves in the outer faces of the



jaws, there being an interengaging rib and groove in the inner faces of the jaws adjacent their outer ends, a coil spring snugly fitted in the mating seats, and arms projecting in the same direction from the ends of the coil spring and extending along the sides of the jaws and having their ends bent laterally, thence rebent to engage the grooves formed in the outer faces of the opposite jaws.

1,782,058. RADIATOR TANK. WALLACE G. CAMPBELL, Lockport, N. Y. Filed Oct. 31, 1928. Serial No. 316,325. 4 Claims. (Cl. 257—25.)

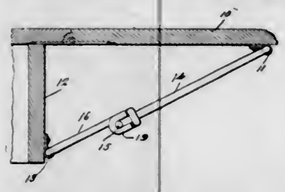


1. A radiator tank having a horizontal partition formed therein whereby to provide upper and lower chambers within the tank, said upper chamber being provided with a filler cap and said lower chamber being interposed in the fluid circulation system of the radiator and a neck depending from said partition with its lower edge terminating in said lower chamber below the horizontal plane of the partition whereby to provide an air space in the upper portion of said lower chamber at the under side of the partition, for trapping the vaporized fluid created in said lower chamber.

1,782,059. TABLE-LEAF SUPPORT. FRANK L. CASPER, Howes Cave, N. Y. Filed Sept. 12, 1927, Serial No. 219,149. Renewed Nov. 22, 1929. 3 Claims. (Cl. 45—47.)

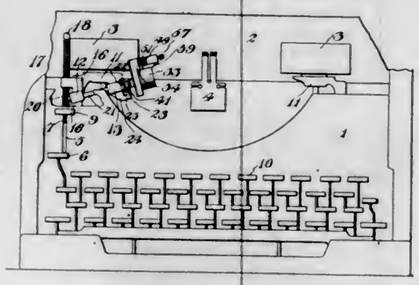
1. The combination with a hingedly mounted member and a support therefor, of a brace comprising companion

sections, and pivotally mounted on said member and support, loops formed on the limbs of one section, and adapted to slidably receive the limbs of the other section, offset extremities formed on the limbs of the last mentioned section and both slidably and pivotally received by said loops, whereby said sections can be arranged in end to



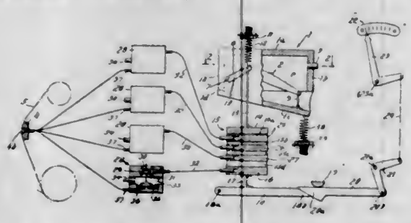
end relation or folded substantially parallel, and each loop having a portion curved inwardly to provide oppositely disposed cam surfaces cooperating with the limbs of the second mentioned section, whereby said sections are effectively latched when swung into end to end relation, and adapted to be unlatched by force in a direction perpendicularly to said offset extremity.

1,782,060. ERASER ATTACHMENT FOR TYPEWRITERS. STEPHEN A. CROSBY, Philadelphia, Pa. Filed May 11, 1928. Serial No. 276,934. 10 Claims. (Cl. 197—181.)



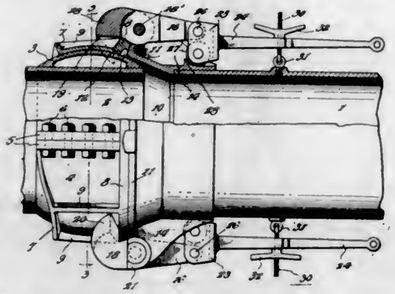
8. An attachment for typewriters comprising a pivotally mounted arm, an eraser shaft slidably and rotatably mounted on the free end of said arm, means for swinging said arm to carry the eraser shaft to and from an erasing position, means on the arm to rotate the shaft, means to normally restrain the rotating means, and means on the shaft to release said restraining means when the shaft is moved endwise by impact at erasing position with material to be erased.

1,782,061. EXPRESSION DEVICE FOR AUTOMATIC PIANOS. JOSEPH H. DICKINSON, Larchmont, N. Y., assignor to The Aeolian Company, a Corporation of Connecticut. Filed May 17, 1927. Serial No. 192,006. 4 Claims. (Cl. 84—41.)



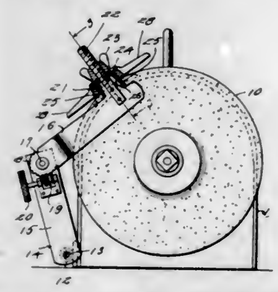
4. In a player piano, the combination of a regulator and its valve, said valve being adjustable both by the regulator and independently thereof; music-sheet controlled means operatively connected with said regulator valve to adjust it independently of the operation of said valve by the regulator; and a hand controlled device operable to adjust the position of said music-sheet controlled means bodily as an entirety and thereby adjust the connected regulator valve while said means is in operation.

1,782,062. UNIVERSAL JOINT FOR PIPE COUPLINGS. OLE P. ERICKSON, Chicago, Ill. Filed Apr. 5, 1928. Serial No. 267,634. 3 Claims. (Cl. 285—91.)



2. In a pipe coupling, the combination of a socket member, a ball member, a gland secured around the ball member and having a flange presented to the socket member, a lever fulcrumed upon the socket member and having a head engaging behind the flange on the gland, an operating lever pivotally connected to the free end of the first-mentioned lever and having a traveling fulcrum engaged with the socket member, and means whereby the power lever may be locked in operative position.

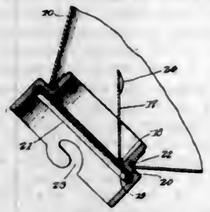
1,782,063. GRINDING APPARATUS. CARTER C. GIBSON, Hamburg, Iowa, assignor to The Two-Way Electric Grinder Company, Hamburg, Iowa, a Corporation of Iowa. Filed Apr. 30, 1929. Serial No. 359,380. 2 Claims. (Cl. 51—220.)



1. In combination with a rotating grinding disc, a shaft axially paralleling the disc and mounted for rotation and longitudinal shifting, an arm carried by the shaft, said arm being formed in two sections, one of which is provided with a worm gear and the other of which is provided with a worm for coaction with the gear, the outer end of the outer section of the arm having a flat tapered extension provided with a stud, and a thumb nut mounted upon said stud.

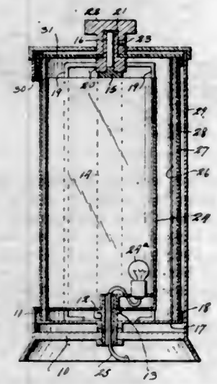
1,782,064. VALVE FOR VACUUM-CLEANER DUST BAGS. ROSE E. GRAY, Sacramento, Calif. Filed Apr. 16, 1929. Serial No. 355,637. 5 Claims. (Cl. 183—40.)

5. The combination of a dust bag connector, having a central bore, means for attaching a dust bag to said connector, a removable washer in said central bore, a ring member secured between said washer and connector, an



inlet valve for the bag pivoted on said member, and a counterweight on said valve at a point remote from the pivotal center of the latter.

1,782,065. RADIO LOG. ALBERT R. GWYNN, Los Angeles, Calif. Filed Mar. 25, 1930. Serial No. 438,815. 4 Claims. (Cl. 40—77.)



1. A radio log of the character described, comprising a base, a fixed shaft extending upward from the base, a frame supported by said shaft, the shaft extending upward from the upper end of the frame, a frame rotatably mounted upon the base, a transparent drum mounted upon said frame for rotation therewith and having vertical columns of radio indicia, the drum at its upper end having a sleeve surrounding the shaft at the upper end of the frame, a knob carried by said sleeve whereby the drum may be rotated, and a reflector disposed within the frame and within the drum and held from rotation, the reflector having its side edges extended nearly to the drum and having a width at this point approximately equal to one of the columns of indicia on the drum, and a lamp disposed within the reflector.

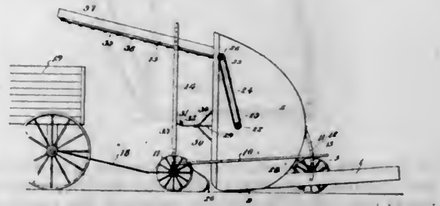
1,782,066. SHOE-LACE KNOTTER. DONOVAN H. HARDY, Manila, P. I., assignor of one-half to Elbert E. Grubbs, Manila, P. I. Filed Dec. 10, 1929. Serial No. 413,106. 6 Claims. (Cl. 24—140.)



1. A shoe having an upper including a securing flap, a fastener element carried by said flap and having a shank,

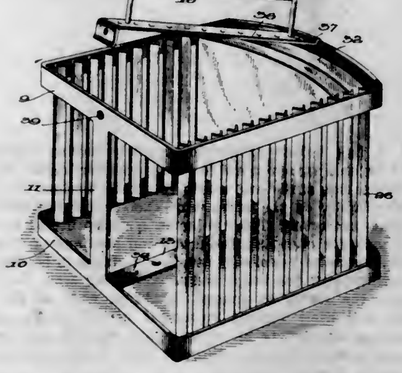
and a lace carried by a portion of the upper overlapped by said flap and passed through the flap at opposite sides of the shank of said fastener, and adapted to be tied across the shank.

1,782,067. CORN GATHERER. EDWARD HASSMAN, Fleming, Colo. Filed June 12, 1928. Serial No. 284,735. 10 Claims. (Cl. 56—344.)



10. An apparatus for the purpose set forth comprising a traveling frame, a housing mounted on the front end of the frame and having an open front and bottom and a closed back and top, a transfer wheel mounted within the frame concentric with the back of the same, and a conveyer having its rear end supported by and within the housing at the upper forward corner thereof, the conveyer extending forwardly from the housing and being disposed to receive material thrown forwardly by the transfer wheel.

1,782,068. NEGATIVE HOLDER. JOSEPH W. HAZELL, Washington, D. C. Filed Dec. 21, 1926. Serial No. 156,124. 2 Claims. (Cl. 95—100.)

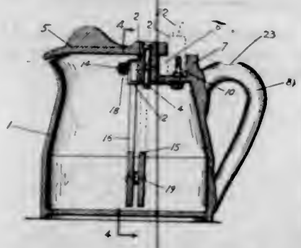


1. A holder for flexible negatives including a pair of parallel side members provided with opposed negative supporting portions, each portion being grooved, the sides of each groove diverging from each other at an angle of substantially ninety degrees, said opposed negative supporting portions being spaced apart a distance less than the corresponding dimension of the negative to be supported thereby, and means for preventing relative movement of one of said side members with respect to the other.

1,782,069. ELECTRIC HEATING APPARATUS FOR LIQUIDS. HENRY HERBERT HENNING, Pymble, near Sydney, New South Wales, Australia. Filed Nov. 17, 1928, Serial No. 320,162, and in Australia Feb. 2, 1928. 6 Claims. (Cl. 219—40.)

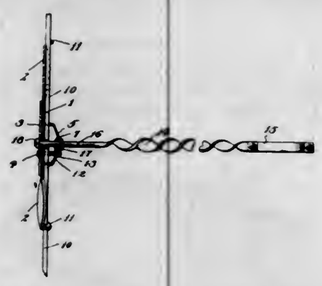
1. Electric heating apparatus for liquids comprising an electrically insulated receptacle for the liquids, a lid for said receptacle openable horizontally from the mouth

of such receptacle, a recess in the head of such receptacle rearwardly of such lid, electric conductive means associated with said recess to which an electric current conducting coupling is attachable to prevent opening of the



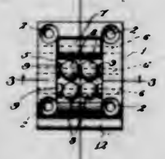
lid from the receptacle when the coupling is so attached, and electrodes associated with said electric conductive means and located in the said receptacle, the electric circuit of which is only completable through liquid contained in said receptacle.

1,782,070. FLAG HOLDER. REX H. LAZARUS, Jackson, Mich. Filed May 2, 1929. Serial No. 359,899. 4 Claims. (Cl. 46—14.)



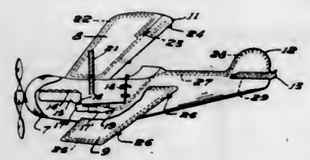
4. A flag holder comprising a body having radiating arms twisted transversely to form propeller blades, means to engage flag staffs and retain the staffs against the body longitudinally of the arms with their outer flag-carrying portions projecting from the arms, a clamp fitting against said body for engaging the inner end portions of the flag staffs, means to releasably secure the clamp in binding engagement with the body, means extending from the body within the clamp to engage the inner ends of the flag staffs and limit inward movement of the staffs, and a mounting adapted to be secured to a support and having a stem passed centrally through the clamp and body to rotatably mount the body.

1,782,071. DOORLATCH STRIKER. FRANK J. MCGUINNESS, Webster, Mass. Filed Oct. 24, 1928. Serial No. 314,754. 1 Claim. (Cl. 292—340.)



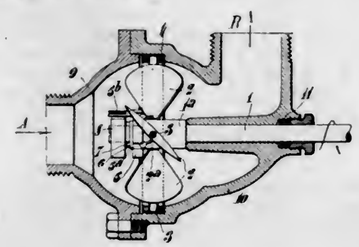
A striker comprising a block adapted to be secured against a door jamb and having a flat inner end face and an outer side face extending from the end face, the block being reduced in thickness towards its other end to facilitate movement of a latch plunger along the block, said block having a pocket opening through its outer side face and spaced from its inner end, pins extending transversely through said pocket in spaced relation to each other longitudinally thereof, a roller in the inner end portion of said pocket rotatably mounted upon one pin, and a plurality of balls rotatably carried by each of the remaining pins between the roller and the outer end of the pocket, the balls closest to the outer end of the pocket being of reduced diameter and said roller and balls projecting out of the pocket an equal distance and adapted to engage a latch plunger and facilitate movement of the plunger along the block into position to engage the said inner end face of the block in overlapping relation thereto and retain a door closed.

1,782,072. SYSTEM FOR PREVENTING THE FORMATION OF ICE ON AIRCRAFT. FRANK MCKINSTRY, Nashville, Tenn. Filed June 19, 1928. Serial No. 286,681. 2 Claims. (Cl. 244—31.)



1. The combination with an airplane, exhaust manifold of an engine within the airplane and a heating system for distributing exhaust from the manifold throughout the plane, of a guide located at one side of the exhaust manifold, a movable distributor head telescopically engaged in the system and communicating with the exhaust manifold, a slider supporting the head, and means within reach of an operator of the plane to permit the head to be shifted with respect to the manifold, said manifold being superposed relative to said head, whereby the latter can travel beneath the manifold.

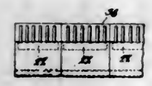
1,782,073. PUMP OUTFLOW REGULATING DEVICE. EMILE PIQUEREZ, St. Cloud, France, assignor to Société Anonyme des Etablissements Técalémit, Paris, France, a Joint-Stock Company of France. Filed May 18, 1929, Serial No. 364,265, and in France May 26, 1928. 1 Claim. (Cl. 103—37.)



In a centrifugal pump, the combination of a casing having a delivery port, a cover of this casing having an inlet port, a driving shaft journalled in a hub extending within the casing and integral with the same, a fluid-tight joint between the shaft and the casing, radial axes on the said shaft, blades respectively pivoted on each of the said axes, a crown surrounding the said blades and peripherally staying the said axes, a ring rotating on the said shaft and having peripheral side grooves, fingers respectively secured on each blade and fitting in the corresponding groove of the said ring, a finger secured on the periphery of the said ring and having a longitudinal groove,

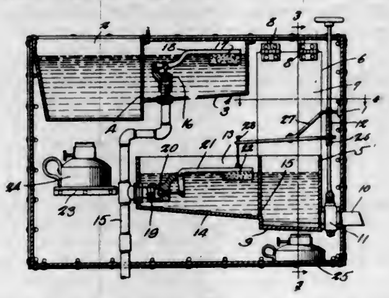
and a thermostat in spiral form, held, at one end, in the groove of the finger integral with the ring and, at the other end, in a side groove of the driving shaft, this thermostat being constituted by the superposition of two sheets of metals having different coefficients of expansion.

1,782,074. MATCH PACKET. RODNEY S. PULLEN, Philadelphia, Pa., assignor to Pullenlite Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 24, 1928. Serial No. 321,597. 14 Claims. (Cl. 206—34.)



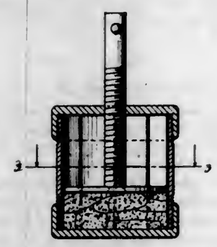
1. In manufacturing a plural section match packet the method of procuring a stiff but readily broken connection between the sections of the packet which consists in separating the outside surfaces of the adjacent sections and in providing a weakened connection between the sections intermediate the thickness of the packet.

1,782,075. STOCK WATERER. JOSEPH RUSKAMP, Dodge, Nebr. Filed Dec. 10, 1928. Serial No. 324,987. 1 Claim. (Cl. 119—73.)



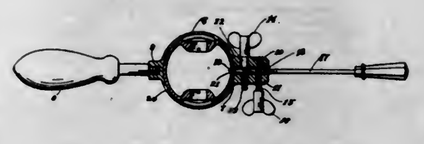
A stock waterer including a casing, a watering trough therein, a drain pipe leading from the trough and casing, a valve for controlling said pipe, a water supply pipe opening into the trough, a float actuated lever in the trough, a valve actuated thereby adapted to close when the float is raised, a threaded rod for actuating the drain valve, a slidable member actuated thereby, and means operated by said member when raised by the complete opening of the drain valve, for supporting the float lever and holding the supply valve closed.

1,782,076. DEVICE FOR PRESSING SOAP. HENRY T. SAFFORD, Sr., El Paso, Tex. Filed Aug. 27, 1929. Serial No. 388,768. 1 Claim. (Cl. 25—10.)



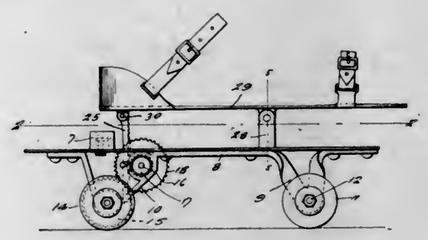
A soap press of the character described comprising a cylindrical casing open at each end, a cap threadedly engaging over and closing each end of the casing, one of said caps having a threaded aperture through the center thereof, a follower designed to snugly position in the casing to reciprocate therein, a threaded shaft attached at one end to said follower and extending through and engaging in the threaded aperture, and lateral arms carried by said shaft at its outer end to facilitate its rotation, said casing having the inner face of the wall provided with a series of longitudinally extending grooves extending throughout from one end to the other.

1,782,077. APPARATUS FOR RESIZING PISTONS. FRED H. SHARP, Salina, Kans. Filed July 15, 1926. Serial No. 122,714. 5 Claims. (Cl. 153—79.)



1. A piston sizing device comprising a slitted piston-encircling sleeve, means connecting the portions on opposite sides of the slit for expanding and contracting the sleeve, and a piston expanding wedge that passes through the slit of the sleeve.

1,782,078. SKATE. SYLVESTER J. STIVER, New Bethlehem, Pa. Filed Oct. 12, 1929. Serial No. 399,254. 1 Claim. (Cl. 208—174.)

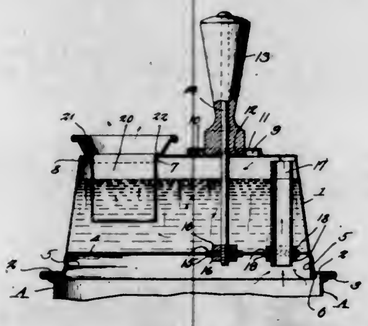


A skate comprising a supporting plate, a rockable foot plate mounted on said supporting plate, a longitudinally extending bar secured to the under side of the supporting plate and having depending substantially V-shaped front and rear portions and shaft bearings in the upper forward part of the said rear portion, axle shafts journaled in the bottoms of the V-shaped front and rear portions of said bar, rollers fixed on the said axle shaft, a driving shaft journaled in the said bearings in the upper forward part of the rear V-shaped portion, a driving connection between said driving shaft and the rear axle shaft, said driving connection operable to rotate the axle in only one direction of rotation of the driving shaft, and means operatively connecting the said rockable foot plate to the said driving shaft for rotating the latter in alternate directions upon rocking movement of said foot plate.

1,782,079. COVER FOR COOKING UTENSIL. LAWRENCE HENRY TAYLOR, Iola, Kans. Filed Aug. 13, 1929. Serial No. 385,564. 6 Claims. (Cl. 53—1.)

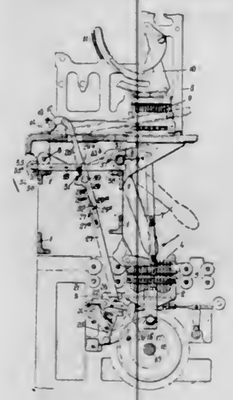
1. A cover for cooking utensils and the like, including a body constituting a water container, a steam outlet

tube opening through the bottom of said body into the upper portion thereof, a water tube opening through the top of the body downwardly into the lower portion there-



of, said body having an opening in the top thereof, a cap for closing the opening, and means extending upwardly within the body for detachably connecting the bottom of the body and the cap.

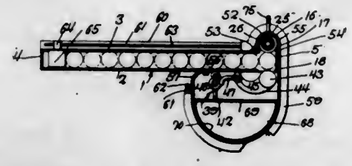
1,782,080. LOCKING DEVICE. ARTHUR THOMAS, Thornton Heath, and FREDERICK EDWARD HALLAHAN, Southend-on-Sea, England, assignors to the Accounting & Tabulating Corporation, of Gt. Britain, Limited, London, England. Filed Mar. 22, 1928. Serial No. 263,851. 12 Claims. (Cl. 235—130.)



1. The combination in a machine of the class described, of a base frame, total controlling and sensing mechanisms mounted on said base frame, a head frame movable in relation to said base frame, calculating mechanisms mounted on said head frame, crippiable movement-transmitting means interconnecting said mechanisms on said base and head frames, means for moving said head frame in relation to said base frame, together with means to prevent movement of said head-frame from an operative to an inoperative position without rendering said interconnecting means inoperative.

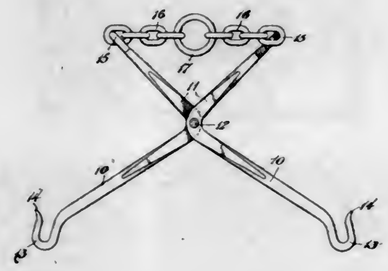
1,782,081. COMBINATION CIGARETTE CONTAINER, IGNITER, AND EJECTOR. VERNON S. WERNER, Morris, Ill. Filed May 28, 1928. Serial No. 281,234. 8 Claims. (Cl. 312—86.)

1. In a cigarette container and dispenser, a longitudinal cigarette storage compartment to accommodate a row of cigarettes to be dispensed, a follower movable longitudinally in said compartment and engageable with one end of a row of cigarettes arranged therein, means yieldably urging the follower to effect movement of the cigarettes toward one end of the compartment upon displacement of the respective endmost cigarette of the row from the row, a receiving chamber in communication at one side with the last mentioned end of the compartment, a displacing member operable to effect transfer of a



cigarette from the said storage compartment into the receiving chamber and comprising a cylindrical engaging member supported for swinging movement, an ejecting member movable in the receiving chamber to eject therefrom a cigarette transferred thereto from the storage chamber, the said ejecting member being manually operable, and means actuated through movement of the ejector and operable upon initial movement of the ejector for effecting swinging movement of the displacing member.

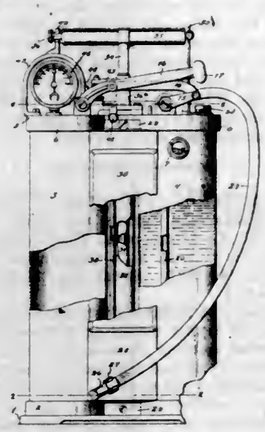
1,782,082. GAMBREL. KARL WICHTENDAHL, Gotha, Fla. Filed Dec. 12, 1929. Serial No. 413,553. 1 Claim. (Cl. 294—79.)



A gambrel comprising a pair of substantially C-shaped arms forged out of round metal bars pivoted together at their elbows and having flattened portions adjacent to the pivot to permit limited opening movement; hooks having outwardly extending, deep bight portions formed on the lower ends of said arms; eyes on the upper ends of the arms; a chain connected to the eyes limiting the closing movement of hooked arms; and a hook-receiving ring in said chain whereby it may be suspended and the weight of the carcass will automatically open the hooked arms.

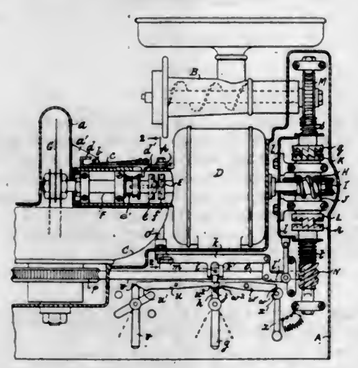
1,782,083. FIRE EXTINGUISHER. FRANK T. WILCOX, Norwalk, Ohio, assignor to The Firex Extinguisher Company, Norwalk, Ohio, a Corporation of Ohio. Filed Oct. 11, 1927. Serial No. 225,474. 5 Claims. (Cl. 299—96.)

1. In a fire extinguisher, air and chemical cylinders, an integral head closing the upper end of said cylinders, valve housings forming a part of said head, valves in said housings for controlling air from the air cylinder to said chemical cylinder and the discharge of chemical from said chemical cylinder, a pump for delivering air to the air cylinder, means for connecting said air cylinder with an external source of pressure, and a valve for controlling the air from said source and said pump to the air cylinder.



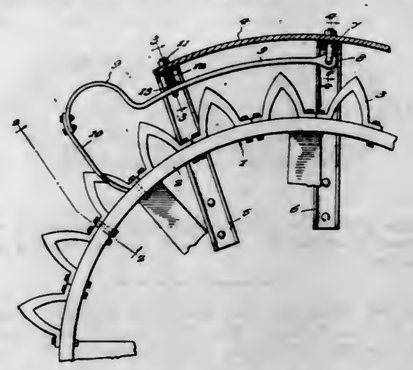
4. In a fire extinguisher, vertically disposed air and chemical cylinders arranged in parallelism beside each other, an integral head casting closing the upper ends of said cylinders, said casting comprising valve housings and fluid passageways establishing communication between the interior of said cylinders and also between the interior and exterior of said chemical cylinder, rotatably mounted valves in said housings to control said respective passageways whereby to control the discharge of air from said air cylinder to the chemical cylinder and the discharge of chemical from said chemical cylinder, and means for simultaneously rotating said valves.

1,782,084. MEAT-MINCING AND SAUSAGE-MEAT-MAKING MACHINE. FREDERICK HURSH WRIGHT and EDMUND WOODWARD LEWIS, London, England. Filed Jan. 12, 1927, Serial No. 160,725, and in Great Britain Apr. 16, 1926. 15 Claims. (Cl. 192—135.)



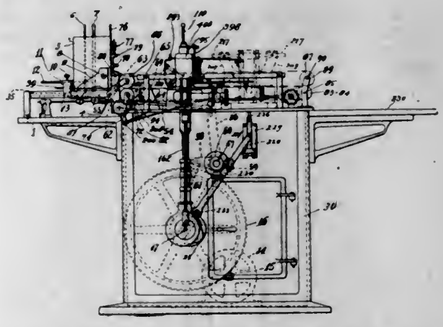
1. A machine for preparing sausage-meat and of the kind described, comprising a safety device consisting of a movable cover fitting over the bowl and knives, a lug or pin on the cover, a spring member depressible by the lug or pin when the cover is closed, a clutch on the knife spindle, and a hand-operated sliding bolt which in one position engages the lug or pin to lock the cover in place and effects engagement of the clutch on the knife spindle, and in the other position disengages the clutch and is automatically locked by the spring member when the cover is opened.

1,782,085. WHEEL SCRAPER. FRANK T. ZERWIG, Ste. Genevieve, Mo. Filed Sept. 25, 1929. Serial No. 395,110. 1 Claim. (Cl. 280—158.)



The combination with a traction wheel, and braces at the side thereof having portions extending across the rim of the wheel in spaced relation thereto, of an arm disposed between the rim of the wheel and the overhanging portions of the braces and pivoted at one end to one of the braces, and having its opposite end curved outwardly, thence inwardly, a scraping blade attached to the recurved end of the arm and engaging the rim of the wheel, a U-bolt having its closed end engaging under and its arms embracing the sides of the pivoted arm and passing through the overhanging portion of the other brace, a plate loosely mounted on the arms of the U-bolt and engaging the outer side of the pivoted arm, and springs on the arms of the U-bolt between the brace and plate to yieldably hold the scraper blade in contact with the rim of the traction wheel.

1,782,086. TAG-MAKING MACHINE. SAMUEL E. ALLEN, Pittsburgh, Pa. Filed July 13, 1928. Serial No. 292,455. 10 Claims. (Cl. 93—87.)

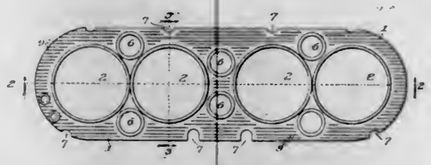


1. In a tag making machine, a patch punching and pressing device; an eyeleting device; a system of conveyor belts adapted to convey tag-blanks to said devices, and means for operating said devices and conveyor-belts in proper speed relation.

1,782,087. GASKET. CLAUDE B. BAILEY, Wyandotte, Mich., assignor to McCord Radiator & Mfg. Co., Detroit, Mich., a Corporation of Maine. Filed May 7, 1926, Serial No. 107,323. Renewed Jan. 11, 1929. 3 Claims. (Cl. 288—1.)

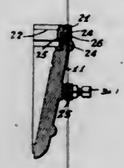
1. A cylinder-head gasket having a body portion of a single layer of sheet metal with a plurality of openings

therein, means carried by the body layer immediately about each of the openings to provide the pressure receiving and joint sealing sections of the gasket, and corru-



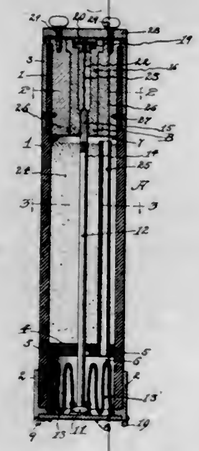
gations provided in the body layer entirely outside of said sections to stiffen the body layer against bending and distortion.

1,782,088. BAKING AND MOLDING DEVICE. JAMES L. BALTON, Baltimore, Md. Filed Apr. 12, 1929. Serial No. 354,677. 12 Claims. (Cl. 107—58.)



1. In an apparatus of the character stated, an aluminium female mold having molding cavities closed except at the mouths of the cavities and having rings of heavier metal embedded in the aluminium near the open end of the cavities, aluminium cores adapted to enter and partly fill the molding cavities, said cores having rings of heavier metal secured around the upper large end, the rings adapted to rest upon the ring in the female molds when the cores are inserted into the molds.

1,782,089. PROTECTIVE DEVICE FOR ELECTRIC CIRCUITS. HARRY W. BAUMER, Chicago, Ill. Filed June 13, 1925. Serial No. 36,853. 20 Claims. (Cl. 200—127.)

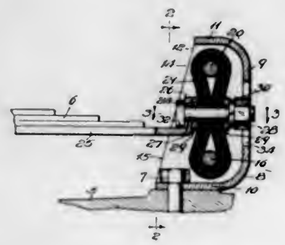


1. A protective device for electric circuits, comprising a non-conductor housing having a removable conductor member on one end and a hinged conductor member on the other end, a movable conductor member slidably mounted within the housing and electrically connected at one end with the hinged conductor member, a removable extension on the other end of the movable conductor, a non-conductor, removable cartridge member interiorly provided with a motor element, and a fuse connected at one end with said extension member and electrically connected at its other end with the housing conductor member, so located in the cartridge that upon being blown its arc will actuate the motor element.

1,782,090. MERCURY COMPOUND OF META CRESOL. DUNCAN MACDONALD COPLEY and JOHN PAUL SNYDER, Norwich, N. Y., assignors to The Norwich Pharmacal Company, Norwich, N. Y., a Corporation of New York. Filed Sept. 14, 1927. Serial No. 219,558. 6 Claims. (Cl. 260—13.)

1. The process of producing the organic mercury derivatives of a cresol isomer consisting in filtering into the isomer an alcohol solution of potassium hydroxide, slowly adding thereto an alcohol solution of a mercuric salt, and meanwhile agitating the mixture, then concentrating same and promoting reaction by low heat, cooling, filtering, and washing until only very faint traces of chlorides appear, and finally drying same.

1,782,091. SPRING SHACKLE. THOMAS L. FAWICK, Racine, Wis. Filed Dec. 20, 1923. Serial No. 681,766. 7 Claims. (Cl. 248—14.2.)

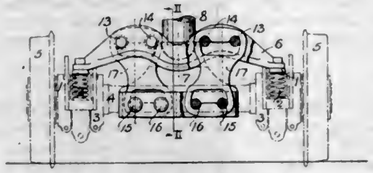


1. The combination with a supporting-frame and a motor of a support for supporting the forward end of the motor on said frame, said support comprising a flexible band looped in a vertical direction, supports between opposite sides of the rear of the motor and said frame, one of said last supports comprising a flexible band looped in a vertical direction and the other comprising a flexible band looped in a horizontal direction.

1,782,092. ARTICLES HAVING TARNISH-RESISTING SURFACE AND PROCESS OF MAKING SAME. DANIEL GRAY and RICHARD O. BAILEY, Oneida, and WILLIAM S. MURRAY, Utica, N. Y., assignors to Oneida Community, Limited, Oneida, N. Y., a Corporation of New York. Filed May 16, 1923, Serial No. 639,447. Renewed Dec. 13, 1926. 2 Claims. (Cl. 204—2.)

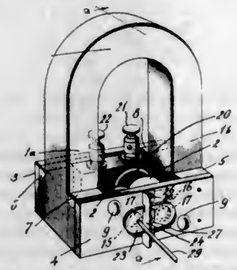
1. The process of providing an article with a tarnish-resisting coating comprising a mixture of silver and chromium, which consists in preparing an aqueous bath containing at least 3 per cent chromic acid, and a compound of the silver, using the article to be coated as a cathode, passing a plating current through the solution by means of a suitable anode, and maintaining an excess of said silver salt in contact with the bath.

1,782,093. TRUCK FOR RAILWAY ROLLING STOCK. ROBERT F. HALL, Schenectady, N. Y. Filed July 10, 1929. Serial No. 377,164. 8 Claims. (Cl. 105—189.)



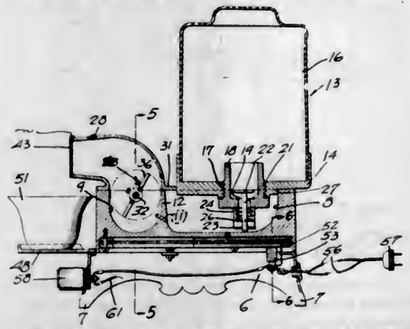
1. A swing hanger link for lateral motion railway trucks, having two upper and two lower bearings, the upper bearings being disposed on opposite sides of the middle line of the link at unequal distances from the lower bearings.

1,782,094. ELECTRICAL MOVEMENT FOR LOUD-SPEAKERS. MARCUS C. HOPKINS, Washington, D. C., assignor, by mesne assignments, to Hopkins Corporation, Jersey City, N. J., a Corporation of Delaware. Filed Jan. 7, 1927. Serial No. 159,552. 5 Claims. (Cl. 175—339.)



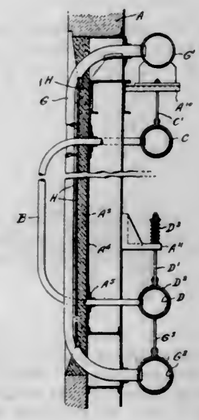
1. A telephone instrument comprising a permanent magnet, a pole piece connected to each pole of the permanent magnet, the pole pieces being arranged substantially parallel to each other, a pair of reversely wound coils arranged between said pole pieces, core elements for said coils, said core elements being connected to one of said pole pieces to form a portion of the path for the magnetic flux, and being spaced from the other pole piece, and an armature carried by said second pole piece in operative relation with the ends of said core members.

1,782,095. LIQUID-WHIPPING APPARATUS. WILLIAM JENSEN, Pasadena, Calif. Filed Feb. 11, 1929. Serial No. 339,207. 8 Claims. (Cl. 259—10.)



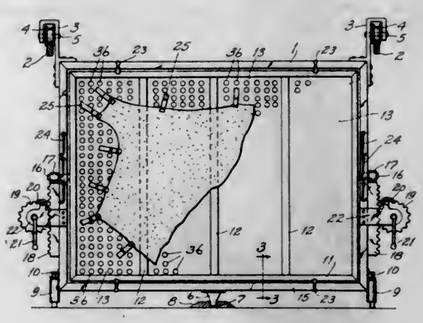
1. A liquid whipping apparatus comprising a base; a partition to divide the base into two communicating vessels; means common to both vessels to heat the same; a container for said liquid communicating with one of said vessels; and means for beating the liquid into a foam in the other vessel.

1,782,096. SUPERHEATER BOILER. WALTER F. KEENAN, Jr., Pelham, N. Y., and HAROLD F. EDDY, Jackson, Mich., assignors to Foster Wheeler Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 10, 1928. Serial No. 268,908. 9 Claims. (Cl. 122—481.)



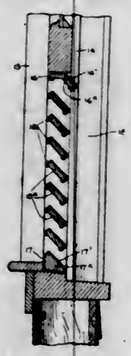
1. The combination with the combustion chamber wall of a boiler furnace, of thin walled radiant heat superheater tube elements adjacent said wall at the furnace chamber side of the latter and freely exposed to heat radiation from the portion of the combustion chamber in front of said elements, said elements being spaced apart from one another and from said wall to avoid slag bridging action between said elements and between the latter and said wall, and to permit of substantial radiant heat absorption from gases between said elements, and between said elements and said well as well as from the latter.

1,782,097. MECHANISM FOR STRETCHING AND DRYING HIDES AND LEATHER. ERNEST G. LOWE, Hartford, Ill. Filed Nov. 16, 1928. Serial No. 319,834. 1 Claim. (Cl. 149—21.)



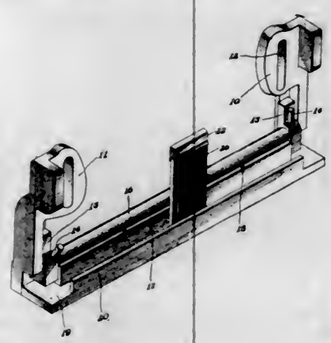
Mechanisms for stretching and drying hides and leather, comprising a transportable outer frame, a rotatable inner frame mounted within said outer frame, tracks for transporting said frames, means for transportably suspending said frames from said tracks, means for shifting the axis of rotation of said inner frame in said outer frame, means for holding said inner frame in adjusted positions, means for holding hides and leather under tension within said inner frame, means for holding said frame and said mechanisms against longitudinal movement.

1,782,098. WINDOW VENTILATOR. JOSEPH MAJUSCHAK, Lyndhurst, N. J. Filed July 12, 1928. Serial No. 292,112. 2 Claims. (Cl. 98—99.)



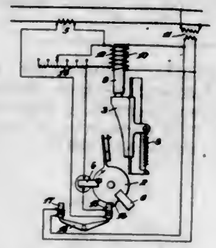
1. A ventilator comprising a pair of mating members, each of said members including a vertical side element, and further including top and bottom horizontally extending elements, each of said top extending elements being formed to have a portion of its upper face substantially horizontal and a further portion of its top face inclined downwardly, each of said members further including horizontally extending elements disposed intermediate said top and bottom horizontally extending elements spaced from one another and fixedly secured at one side with its said vertical side element, said intermediate horizontally extending elements having their upper faces substantially parallel to said downwardly inclined upper face portion of its said top extending element, the said intermediate horizontally extending elements of one of said mating members being hollow and dimensioned to receive the corresponding said intermediate horizontally extending elements of the other mating member, and a vertically extending element for each mating member fixedly inter-connecting the said intermediate horizontally extending elements and disposed intermediate the sides of said member.

1,782,099. ATTACHMENT FOR LOOMS. ROBERT PORMANN, Union City, N. J. Filed Aug. 15, 1928. Serial No. 299,662. 1 Claim. (Cl. 139—188.)



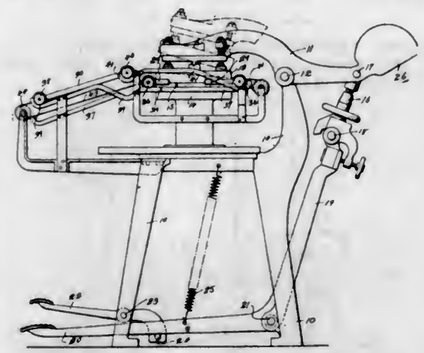
In a loom, a pair of spaced apart brackets adapted to be supported on the lay of the loom, blocks mounted rigidly on said brackets, a spindle rotatably mounted in said blocks for supporting the warp strings being fed to the loom, a platform connecting said brackets and being attached ot the latter, a reed supported on said platform, a beam mounted on said platform, said beam having grooves traversing said channel, and a felt layer projecting from said grooves serving as a support for said spindle, said beam having a longitudinal channel therein receiving one-half the periphery of said spindle, said spindle resting upon said felt layer, said felt projecting above the channel surface.

1,782,100. RELAY. MANFRED SCHLEICHER, Berlin-Charlottenburg, and PAUL CARIO, Berlin-Grunewald, Germany, assignors to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed July 13, 1927, Serial No. 205,307, and in Germany June 24, 1926. 8 Claims. (Cl. 200—97.)



1. A protective relay comprising means for automatically cutting out part of a line system after a predetermined time interval, which interval increases in proportion to an increase of voltage and decreases in proportion to an increase in current, and means for setting said relay to operate after a predetermined time interval, with a predetermined value of the quotient of voltage and current, without affecting the increase of the time interval for the operation of the relay in the event the predetermined value of said quotient should be exceeded.

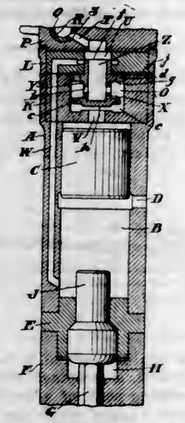
1,782,101. GARMENT OR IRONING PRESS. EDWARD J. SCHREMP, Beechhurst, and PHILIP N. BRAUN, Syracuse, N. Y., assignors, by mesne assignments, to the Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Apr. 19, 1924, Serial No. 707,576. Renewed Apr. 11, 1930. 11 Claims. (Cl. 68—9.)



1. A conveyor press comprising a heating zone into which the work is conveyed for treatment, a pair of tray receptacles supported one above the other, guiding means on which each tray travels in opposite directions, means for bringing the trays to rest in predetermined position in spaced relation, one end of the guiding means being bent downwardly and so constructed and including means as to cause the tray to assume an angular position outside the heating zone by which work may be conveniently

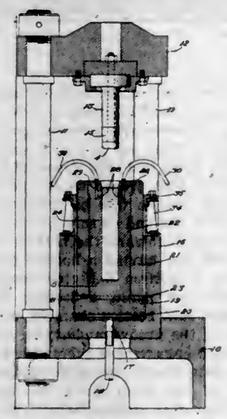
placed thereon, the other end of the guide means arranged and including means to bring the tray to rest in place for treatment inside the heating zone.

1,782,102. VALVE FOR ROCK DRILLS. WILLIAM A. SMITH, Jr., Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Dec. 12, 1929. Serial No. 413,534. 3 Claims. (Cl. 121—19.)



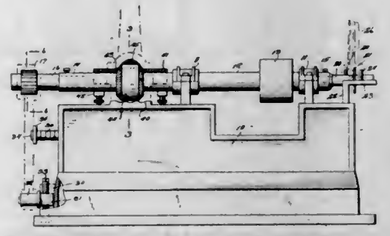
1. In a fluid actuated rock drill, the combination of a cylinder and a hammer piston therein, a valve chest having a valve chamber, inlet passages leading from the valve chamber to the cylinder, a valve in the valve chamber to control the inlet passages and having opposed differential pressure surfaces against which pressure fluid acts to throw the valve, a passage in the valve through which pressure fluid flows into the valve chamber, a head on the valve over which pressure fluid flows to one inlet passage, and an actuating surface on the valve intermittently exposed to compression to assist the pressure fluid acting against the pressure surface of smaller area to throw the valve.

1,782,103. HIGH-PRESSURE HYDRAULIC PRESS. JOHN C. SOLBERG, Arlington, and FREDERICK C. LANGENBERG, Watertown, Mass., and EDMUND M. SAWTELLE, New York, N. Y., assignors to Oneida Community, Limited, Oneida, N. Y., a Corporation of New York. Filed May 4, 1928. Serial No. 275,228. 3 Claims. (Cl. 138—10.)



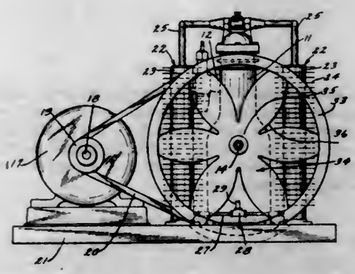
1. The improved pressure applying apparatus comprising a ram and cylinder cooperating with each other and capable of movement to cause the ram to enter or to be withdrawn from the bore of the cylinder, said ram having a packing thereon, said cylinder being provided with a port entering the side of the bore at a point distant from the mouth of the bore greater than the length of the packing on the ram.

1,782,104. BEARING GROOVING AND POCKETING MACHINE. CLIFFORD T. SONDLEY, Newberry, S. C. Filed Oct. 4, 1928. Serial No. 310,424. 13 Claims. (Cl. 90—11.)



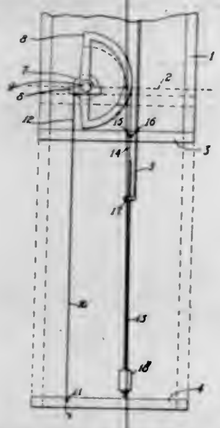
1. In apparatus for forming a diagonal oil groove in bearings which are formed in sections each of which has a pair of apertured ears disposed in a plane at right angles to the bearing for the reception of securing elements holding the sections in assembled relation, said apparatus comprising a shaft, means for rotating the shaft, a cutter carried thereby, and a pair of pins diagonally disposed with reference to each other and to the shaft, said pins being arranged at opposite sides of the shaft and at opposite sides of the cutter adapted to engage in the apertures of the ears and guide the bearing section for engagement with the cutter.

1,782,105. REFRIGERATION. CHARLES C. SPREEN, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Mar. 12, 1927. Serial No. 174,883. 1 Claim. (Cl. 257—39.)



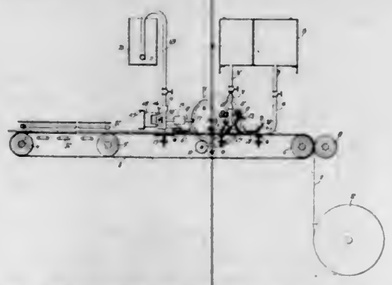
A condenser for refrigerating apparatus comprising a pair of closed spaced cylinders, said cylinders extending in parallel relation in a vertical plane, spaced circular fins extending in a horizontal plane from said cylinders, a common inlet connection for said cylinders, a common outlet connection for said cylinders, a common horizontally disposed support for said cylinders, and means for securing the bottom portions of the latter rigidly to the support.

1,782,106. MEAN-TEMPERATURE INDICATOR. MARSHALL TAYLOR, Wilkinsburg, Pa. Filed June 24, 1929. Serial No. 373,135. 6 Claims. (Cl. 73—118.)



1. A temperature measuring device comprising the combination with the escapement lever of a clock mechanism, of means responsive to temperature changes for varying the rate of such mechanism, said means being adapted to exaggerate the variations in the rate of the clock mechanism.

1,782,107. METHOD AND APPARATUS FOR MAKING INLAID SHEET MATERIAL. MERWYN C. TEAGUE, Elmhurst, N. Y., assignor to The Mechanical Rubber Company, Cleveland, Ohio, a Corporation of New Jersey. Filed Jan. 26, 1924. Serial No. 688,696. 36 Claims. (Cl. 154—21.)



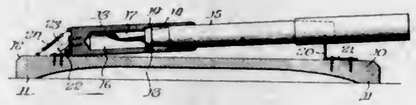
22. An inlaying machine for plastic material comprising means for supporting a backing, and means laterally movable relatively to each other for distributing plastic material of different colors in predetermined inlaid arrangement on the backing by relative movement of the backing and distributing means.

1,782,108. DESK STAND AND HOLDER FOR FOUNTAIN PENS. JOHN C. WAHL, Chicago, Ill., assignor, by mesne assignments, to Pen Desk Set Company, a Corporation of Illinois. Filed July 11, 1925. Serial No. 42,900. 27 Claims. (Cl. 120—108.)



1. A fountain pen desk set comprising a relatively shallow base adapted to rest on a flat surface, a supporting member on said base, an open-mouthed holder adapted to removably receive the writing end of a fountain pen, the lower end of said holder being swingably mounted directly in the supporting member, and resilient means to cause the holder to remain at any angle to which it may be adjusted until pressure is applied to move it to a different angle, the holder being swingable from a position substantially parallel with the base to well beyond the vertical whereby the holder and its contained pen can be laid down close to the base to facilitate storing and readily swung from an angle on one side of the vertical to an angle on the other side of the vertical.

1,782,109. FOUNTAIN-PEN DESK STAND. JULES A. FREMON and AVERY S. DE HAVEN, Leeper, Mo., assignors, by mesne assignments, to Pen Desk Set Company, a Corporation of Illinois. Filed Sept. 17, 1926. Serial No. 136,073. 7 Claims. (Cl. 120—108.)



1. In a fountain pen desk stand, a base adapted to be placed on top of a desk, a receptacle having a closed end for receiving the writing point of a fountain pen, a shoulder in said receptacle against which the end of said fountain pen is urged by its own weight to seal substantially the ink-feeding mechanism, means directly secured to said closed end and said base whereby said receptacle is movably mounted on said base, and means whereby said pen when in said receptacle is prevented from movement below a position wherein the ink in said pen flows toward the writing point thereof.

1,782,110. BOX. ARNOLD WETZLER, Far Rockaway, N. Y. Filed Jan. 26, 1929. Serial No. 335,258. 3 Claims. (Cl. 217—62.)



1. A box construction, comprising side, end and bottom walls, and a flexible slidable cover, said side walls each having a substantially straight groove therein terminating a distance from one end wall, said grooves adapted to receive said cover and said cover adapted to slide substantially out of said groove so the portion of the cover beyond the said groove will be relatively free, an upper deflector opposite the end of said groove for deflecting the cover in a direction toward the bottom wall after leaving the groove, said box having a bottom chamber for receiving the cover, a bottom deflector cooperating with the upper deflector for again deflecting the flexible cover toward and into said bottom chamber, and a member adjacent the end of the groove underlying the said cover and having a limited engagement therewith for aiding re-entry of the cover into the groove with minimum restriction of the freedom of the cover when slid out of the groove, whereby the cover is substantially free and unrestricted outside of the groove and the restricted portion is entirely within a straight groove.

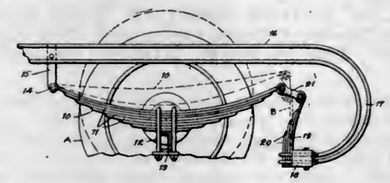
1,782,111. METHOD OF MANUFACTURING TETRA-ALKYLATED THIURAMDISULPHIDES. HAROLD S. ADAMS, Larchmont, N. Y., and LUDWIG MEUSER, Bound Brook, N. J., assignors to The Naugatuck Chemical Company, Naugatuck, Conn., a Corporation of Connecticut. Filed Aug. 4, 1925. Serial No. 48,069. 3 Claims. (Cl. 260—16.)

1. A process for making tetra alkylated thiuramdisulphides which comprises treating a secondary amine with an excess of carbon disulphide, oxidizing the dithiocarbamate thus formed to a thiuramdisulphide and causing the liberated secondary amine to react with the excess carbon disulphide to form additional dithiocarbamate, oxidizing the dithiocarbamate as it forms into further thiuramdisulphides and recovering the thiuramdisulphide from the reaction mixture.

1,782,112. METHOD OF TREATING MIXTURES OF AMINES. HAROLD S. ADAMS, Larchmont, N. Y., and LUDWIG MEUSER, Bound Brook, N. J., assignors to The Naugatuck Chemical Company, New Haven, Conn., a Corporation of Connecticut. Filed Aug. 4, 1925. Serial No. 48,070. 19 Claims. (Cl. 260—16.)

1. A process for treating a mixture of amines which comprises reacting with carbon bisulphide on the primary and secondary amines therein, oxidizing the reaction products in the presence of an acid to thereby form an insoluble material, removing the insoluble material from the solution, and recovering tertiary amine from the solution.

1,782,113. SHOCK ABSORBER. WALTER J. ALBERSHEIM and HARVEY S. KONHEIM, New York, N. Y. Filed Sept. 2, 1926. Serial No. 133,182. 3 Claims. (Cl. 267—46.)



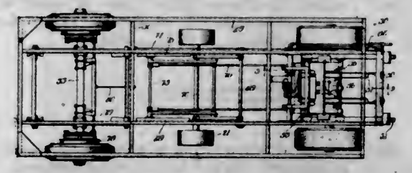
1. The combination with a vehicle frame, of an axle, a laminated spring supported intermediate its ends by said axle, cushioning means connected between one end of said laminated spring and said frame, said means comprising a vertical laminated spring member, a link pivoted to said last mentioned spring member, said link lying normally in a substantially horizontal plane and said link being connected to said first mentioned laminated spring, whereby said link and said vertical spring are brought into substantially vertical alignment before the said first mentioned spring is substantially strained by variations in pressure between said axle and said frame.

1,782,114. SUNDIAL. GONZALO ANCIRA, Houston, Tex. Filed Nov. 22, 1927. Serial No. 235,096. 3 Claims. (Cl. 33—62.)



2. A device of the character described comprising a disk, a pointer pivotally connected at one end to said disk centrally thereof, said disk being provided over one semi-circle with an arcuate scale concentric with the pivot of said pointer, the opposite semi-circle of said disk being provided with a straight radial slot adapted to be alined with the sun.

1,782,115. TRAILER VEHICLE. ADDI BENJAMIN CADMAN, Beloit, Wis., assignor to Warner Mfg. Co., South Beloit, Ill., a Corporation of Michigan. Filed Mar. 5, 1926. Serial No. 92,428. 62 Claims. (Cl. 280—33.1.)

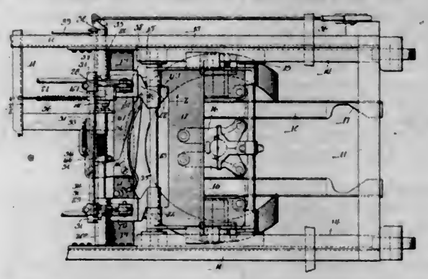


1. A trailer having, in combination, a frame, a clutch rotatably mounted on said frame comprising a driving element and a driven element, manual means for oscillating said driving element, brakes arranged to be set by oscillation of said driven element in one direction, and means for effecting disengaging movement of one of said elements only when said brakes are in set position, said last mentioned means while in brake-releasing position being ineffective to prevent subsequent setting of the brake.

10. A vehicle having, in combination, a tractor, a trailer, and means for coupling the tractor and trailer together for combined operation comprising a carriage mounted to slide on said trailer during coupling and uncoupling, means on said carriage arranged to engage a part on said tractor whereby to lock the carriage to the tractor automatically during coupling and to disengage said part automatically at the end of the uncoupling operation whereby to unlock said carriage and tractor, movable latches pivoted on said carriage and arranged to lock the carriage to the trailer automatically at the completion of the coupling operation, and manually operable means on the trailer for releasing said latches to permit uncoupling.

61. A combined vehicle of the character described comprising, in combination, a tractor section, a trailer section, a king pin on one of said sections, means providing a socket for said king pin including a pair of coacting members mounted on said other section to be spread apart and permit the entry of said king pin during coupling of said sections, and a device mounted for movement independent of said members and arranged to be moved into and out of locking engagement with the members by a camming action of said king pin in leaving and entering said socket whereby to maintain said members spread apart while the sections are disconnected.

1,782,116. TRAILER VEHICLE. ADDI BENJAMIN CADMAN, Beloit, Wis., assignor to Warner Mfg. Co., South Beloit, Ill., a Corporation of Michigan. Filed Aug. 16, 1926. Serial No. 129,393. 5 Claims. (Cl. 280—33.1.)



2. A trailer vehicle having, in combination, a frame, a rock-shaft carried by said frame, a pair of crank arms fixed

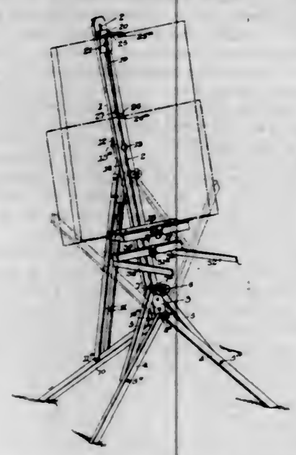
to said shaft, locking pins pivoted on said arms, an element slidably mounted on said frame and having openings to receive said pins, means on said frame for guiding said pins, and cam means for controlling the oscillation of said shaft whereby to move said pins into and out of said openings.

1,782,117. METHOD OF MOUNTING PIEZO-ELECTRIC RESONATORS FOR THE EXCITATION OF VARIOUS OVERTONES. WALTER G. CADY, Middletown, Conn., assignor to Radio Corporation of America, a Corporation of Delaware. Filed Oct. 1, 1925. Serial No. 59,751. 10 Claims. (Cl. 171—327.)



1. The method of stimulating a piezo-electric body to vibrate at a frequency higher than the fundamental frequency of said body which comprises, subjecting only a fractional portion of said body to an alternating electric field of suitable frequency.

1,782,118. ARTIST'S EASEL. GEORGE W. CAHALL, Philadelphia, Pa. Filed Mar. 26, 1928. Serial No. 264,787. 11 Claims. (Cl. 45—129.)



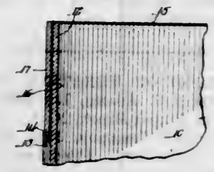
4. In an easel, the combination of a standard slotted throughout its length, a series of legs pivotally connected to the lower end of said standard and foldable in parallel relation thereto, adjustable connections between said legs and the standard movable in the slotted portion of the latter, a stretcher shelf or support carried by said standard, and an adjustable retaining member carried at the upper end of the slotted standard and movable in the slot of the same for engagement with objects mounted on said stretcher shelf.

1,782,119. KNOCK DOWN SHELVING. PHILIP DEAN, Madison, Wis. Filed Oct. 6, 1927. Serial No. 224,431. 1 Claim. (Cl. 248—19.)



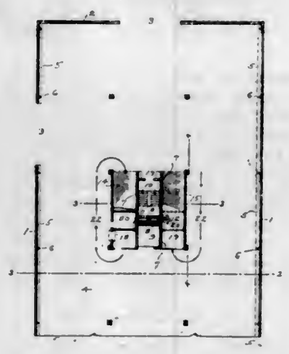
In a shelving structure the combination of a pair of uprights having opposed faces with openings formed therein, a shelf-supporting stirrup between said uprights said stirrup comprising a horizontal shelf-supporting web having upwardly inclined end portions, down turned hook portions on said end portions for interlocking engagement within said openings in said uprights, and an upright flange extending throughout the length of said web and connecting said end portions.

1,782,120. CONTAINER. FRANK J. FUNKE, La Crosse, Wis. Filed Nov. 7, 1927. Serial No. 231,577. 3 Claims. (Cl. 206—44.)



3. A container having an inner wall reaching to the top of the container and an outer wall reaching a portion of the way upwardly to leave a shoulder, a transparent membrane extending across the opening of the container and down the sides of the container, and a band snugly fitting the outer face of the downwardly extending portion of the membrane, said band being thinner in cross section than the thickness of the outer wall, and a cover fitting down over the outer face of the outer wall.

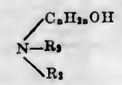
1,782,121. BUILDING STRUCTURE. WILBUR R. HERBY and RAYMOND J. UNGER, Dayton, Ohio. Filed Apr. 25, 1927. Serial No. 186,289. 2 Claims. (Cl. 20—1.13.)



1. In a building structure including superposed floors located at full story intervals, a hollow vertical column having therewithin means of access to the several floors, and two series of inclined cantilever ramps, each leading from one floor to another, one series located on each side of the hollow vertical column and supported thereby at their adjacent margins, the outer margins of the ramps being located in spaced relation with the walls of the building to permit travel of vehicles beside each series of ramps from the outlet of one ramp to the inlet of the next ramp of the respective series.

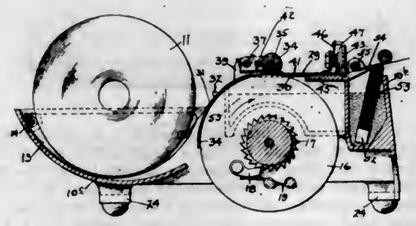
1,782,122. VAT ASSISTANT FOR USE IN DYEING. JEAN GEORGES KERN and CHARLES J. SALA, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 4, 1927. Serial No. 210,715. 14 Claims. (Cl. 8—5.)

3. The process of improving a vat color paste, the step which comprises incorporating with the vat color paste a compound having the structural formula:



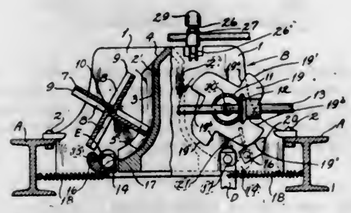
wherein $C_nH_{2n}OH$ represents an aliphatic radical, substituted or not, and R_1 and R_2 represents either hydrogen or an aliphatic radical or a hydroxy-aliphatic radical.

1,782,123. PACKAGE SEALER. THEODORE H. KRUEGER, New York, N. Y. Filed May 12, 1925. Serial No. 29,715. 31 Claims. (Cl. 91—14.5.)



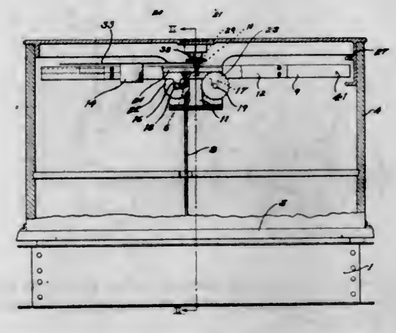
1. In a gummed tape serving device an unguided path for the tape through the machine, a tape feeding means adapted to engage the middle portion only of the tape to center and project the same through the machine, and a brush moistening element to uniformly apply a liquid to the tape as it emerges from the machine.

1,782,124. FEEDING MECHANISM FOR NUT-CRACKING MACHINES AND THE LIKE. LEO J. MEYER, St. Louis, Mo., assignor of one-half to John A. Schuler, St. Louis, Mo. Filed Feb. 1, 1928. Serial No. 250,975. 9 Claims. (Cl. 146—12.)



1. Feeding mechanism comprising a rotary element, feeding means for conducting articles to be fed to said rotary element, a member arranged to receive articles from said rotary element, the last mentioned member being trippably supported to effect the discharge therefrom of articles being fed, and means for tripping said member.

1,782,125. WEIGHING SCALE. LOUIS A. OSGOOD, Hartford, Conn., assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Oct. 10, 1924. Serial No. 742,831. 5 Claims. (Cl. 265—49.)

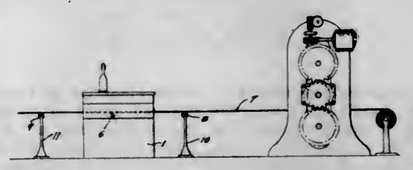


1. In a device of the class described, in combination, a beam, a poise slidably mounted thereon, a graduated member fixed to and movable with said poise, and magnifying means for rendering a portion of said graduated member visible.

1,782,126. PROCESS FOR PREVENTING SPONTANEOUS COMBUSTION. EARLE C. PITMAN, Princeton, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed July 13, 1928. Serial No. 292,604. 3 Claims. (Cl. 169—1.)

1. Process for preventing the spontaneous combustion of the spray residue of coating compositions containing oxidizable matter, which comprises treating said spray residue with a suitable anti-oxidant.

1,782,127. TESTING DEVICE. JOHN L. THEOBALD, Dayton, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Oct. 27, 1926, Serial No. 144,436. Renewed Apr. 25, 1930. 5 Claims. (Cl. 265—58.)

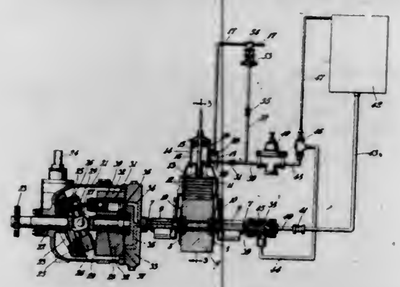


1. In a device of the class described, in combination, means adapted to support a movable strip of material, means whereby such support is continuously subjected to a definite length of such material; means for coating said moving strip of material, and counterbalancing means for such material including a series of selectively replaceable unit weights corresponding to the width of the material to be tested.

1,782,128. GRINDING OR CUTTING APPARATUS. LOUIS H. THULLEN, East Orange, N. J. Filed Nov. 29, 1926. Serial No. 151,306. 12 Claims. (Cl. 83—75.)

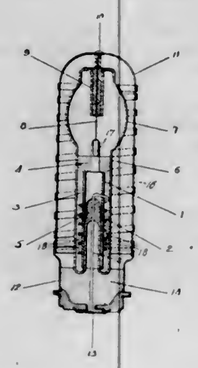
1. Grinding apparatus having in combination a grinding member, a fluid pressure pump for operating said grinding member, means for holding the material being ground, means whereby operation of the grinding member builds up

a fluid pressure varying with the load encountered by the grinding member, and means tending to decrease the



pressure with which the material being ground is pressed against the grinding member responsive to increases in said fluid pressure.

1,782,129. UNILATERAL CONDUCTOR FOR RECTIFYING ALTERNATING CURRENT. HENRI GEORGES ANDRÉ, Paris, France. Filed Apr. 29, 1925, Serial No. 26,748, and in France Dec. 26, 1924. Renewed Apr. 11, 1930. 10 Claims. (Cl. 175—318.)



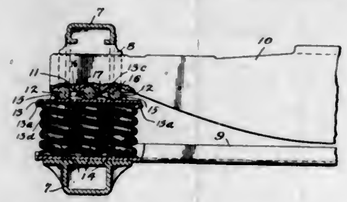
1. In electrical apparatus, the combination of a sealed tube containing a centrally disposed anode in colloidal form, a cathode mounted so that substantially all of its surface is presented to said anode and means including a mixture of sulfuric acid and anhydride for maintaining the colloids in suitable proportions.

2. As an article of manufacture, a helical element of nickel alloy, the convolutions of which contain particles of silver.

9. In electrical apparatus, the combination of a subdivided anode subject to agglomeration, an electrolyte associated therewith and means comprising an intersticed cathode, for permitting flow through the agglomeration of the gas formed by electrolysis.

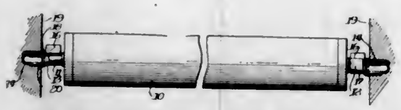
1,782,130. LATERAL-MOTION ROLLER BEARING FOR CARS. FRANKLIN L. BARBER and EDWIN W. WEBB, Chicago, Ill., assignors to Standard Car Truck Company, Chicago, Ill., a Corporation of New Jersey. Filed Feb. 15, 1929. Serial No. 340,240. 3 Claims. (Cl. 105—186.)

1. A lateral motion roller bearing device for car trucks and cars, which device comprises a set of several rollers and a pair of bearing plates, one below the rollers and the other above and resting on the rollers, and which



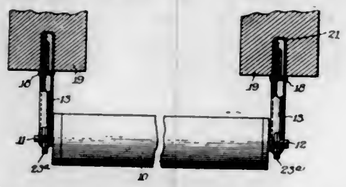
plates have cooperating stops applicable to only one of the said set of several rollers, substantially as described and for the purpose stated.

1,782,131. SHADE-ROLLER BRACKET. ELMER BROBERG, Rockford, Ill., assignor to Elco Tool and Screw Corporation, Rockford, Ill., a Corporation of Illinois. Filed Dec. 14, 1927. Serial No. 239,852. 8 Claims. (Cl. 156—24.)



1. A shade roller bracket comprising a substantially tubular socket portion having a longitudinal slot therein, a pair of outwardly extending flanges integrally connected to said socket portion at the margins of said slot, a tubular anchoring stem having a tapered outer end, an annular bead intermediate said socket portion and said tubular stem and integrally connecting one to the other, and one or more ribs projecting outwardly from the surface of said tubular stem.

1,782,132 SHADE-ROLLER BRACKET. ELMER BROBERG, Rockford, Ill., assignor to Elco Tool & Screw Corporation, Rockford, Ill., a Corporation of Illinois. Original application filed Dec. 14, 1927, Serial No. 239,852. Divided and this application filed July 19, 1929. Serial No. 379,353. 6 Claims. (Cl. 156—24.)

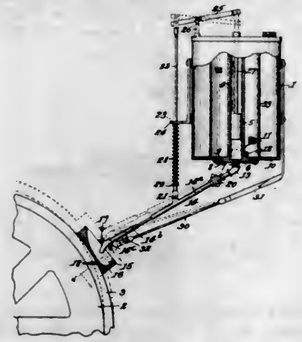


1. A shade roller bracket comprising a socket portion having a substantially tubular stem, an outwardly extending lug integrally connected to said stem and notched to receive the end of a shade roller, and a tubular anchoring portion formed integral with said stem.

1,782,133. WHEEL-FLANGE OILER. JOHN S. CHILDS, McMechen, W. Va., assignor of one-third to Roy A. Nease, McMechen, W. Va., and one-third to Claude B. Harrington, McMechen, W. Va. Filed Dec. 7, 1929. Serial No. 412,438. 6 Claims. (Cl. 184—3.)

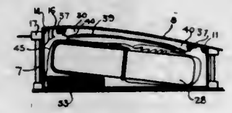
1. In a wheel-flange oiler, a stationarily mounted oil container, a pump cylinder to which oil is supplied from said container, a plunger within said cylinder, a saddle-like member mounted to ride on the wheel flange, said member having therein a reservoir and ports leading from the

reservoir, a flexible telescoping feed pipe leading from said pump cylinder to said member and having connection with the latter, and connections intermediate said feed



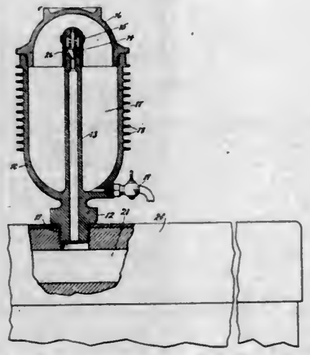
pipe and said plunger whereby vertical movements imparted to the former are communicated to the latter for forcing oil to said feed pipe.

1,782,134. SAFETY EQUIPMENT FOR AIRCRAFT. DONALD G. COPLEN, Seattle, Wash. Filed Aug. 8, 1928. Serial No. 298,280. 5 Claims. (Cl. 244—21.)



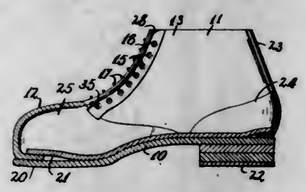
1. In an airplane or the like, a parachute compartment having a lid that will be outwardly displaced from the plane when released, holding means for normally retaining the lid in closed position, a main parachute collapsed within the compartment and having connection with the airplane for sustaining the latter when the parachute is open, a pilot parachute collapsed within the compartment and having connection with the main parachute for withdrawing the latter from the compartment to a position for opening, means releasably supporting the pilot parachute from the under side of the lid for carrying it therewith from the compartment to a position for opening when said lid is displaced and means for actuating said holding means to release the lid.

1,782,135. LUBRICATING DEVICE. WALTER H. COTTON, Chicago, Ill. Filed Oct. 31, 1924. Serial No. 747,030. 2 Claims. (Cl. 184—51.)



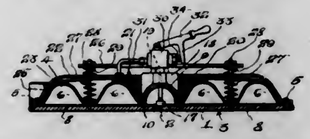
2. A lubricating device comprising a container provided with a threaded nipple extending outwardly therefrom and a tube extending upwardly therein, said tube and nipple being provided with a bore, a spring pressed valve for closing the upper end of said bore, a cap for enclosing said valve, said cap having an aperture through its side wall, a closure for said container for enclosing said tube, cap and valve, a pet cock in communication with the lower portion of said container, and heat radiating ribs on the exterior of said container.

1,782,136. WATERPROOF SHOE. ARON CSONT, Coraopolis, Pa. Filed Mar. 5, 1930. Serial No. 433,238. 4 Claims. (Cl. 36—50.)



1. A waterproof shoe, comprising a waterproof sole and heel structure connected with a waterproof shoe upper structure, said shoe upper comprising a vamp portion connected with an ankle portion having an opening extending from the vamp portion to the top of the ankle portion, eyelets thru apertures along the opposite sides of said openings and formed with bayonet slots, a shoe lace thru said eyelets, a waterproof closure member behind the opening in said ankle portion and held in place at the bottom on said lace, and prongs demountably engaged in said bayonet slots and engageable against the face of said closure member to hold it in place against one's foot upon a tightening of said lace.

1,782,137. PRESSING ELEMENT FOR PRESSING MACHINES. ERNEST DAVIS, Syracuse, N. Y., assignor to The Prosperity Company Inc., Syracuse, N. Y., a Corporation of New York. Filed Jan. 18, 1929. Serial No. 333,444. 7 Claims. (Cl. 68—9.)

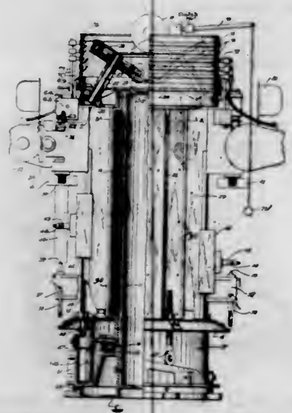


1. A platen pressing element for pressing machines comprising a pressing plate having perforations therethrough and opening through its pressing face, a conduit for a fluid to be projected through the perforations, the conduit being mounted on the plate and communicating with said perforations and means extending transversely through the conduit and into the plate to secure the conduit to the plate.

1,782,138. CONTINUOUSLY-OPERATING MULTIPLE LATHE. FRANK M. DAVIS, Milwaukee, Wis., and ALBERT C. HOEH, Pontiac, Mich., assignors to Davis & Thompson Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 22, 1926. Serial No. 103,839. 11 Claims. (Cl. 29—38.)

1. In combination, a base and a central column secured thereto, a rotatable carrier surrounding said column and having a guide member at its lower end rotatable therewith, vertical guide-ways formed in said guide member, a cam ring secured to said base and surrounding said guide member, a plurality of spindle units mounted about said carrier for rotation therewith, a vertically reciprocable carriage for each spindle unit, a connecting rod depending

from each carriage and having its lower end guided for vertical movement in said guide-ways, and a roller mounted at the lower end of each connecting rod and riding on the



cam ring surrounding the guide-ways, said cam ring being capable of removal and replacement without dismantling other mechanism.

1,782,139. SOUNDING DEVICE. DAVID G. DEDRICK, Groton, Conn. Filed Sept. 12, 1929. Serial No. 392,152. 6 Claims. (Cl. 137—18.)

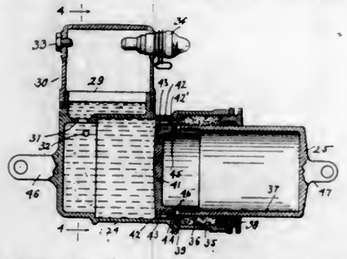


1. A sounding lead having in its bottom face a recess, a closure cup mounted to turn within said recess and provided with a beveled closing edge, resilient means normally acting to close said cup, means arranged to hold said cup in open position in opposition to said resilient means, and a trip-rod adapted to release said resilient means and close said cup.

1,782,140. RUBBER DERIVATIVE AND METHOD OF MAKING SAME. HARRY L. FISHER and HERBERT A. WINKELMANN, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Dec. 29, 1926. Serial No. 157,867. 6 Claims. (Cl. 260—1.)

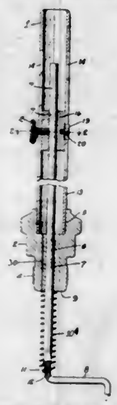
1. The method of producing heat-plastic rubber derivatives which comprises incorporating into rubber a dialkyl sulfate, and heating the mix under conditions causing it to be changed to a thermoplastic product.

1,782,141. SHOCK ABSORBER. LOUIS WILLIAM GREVE, Cleveland, Ohio, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed Apr. 30, 1928, Serial No. 273,929. Divided and this application filed July 26, 1929. Serial No. 381,178. 2 Claims. (Cl. 267—64.)



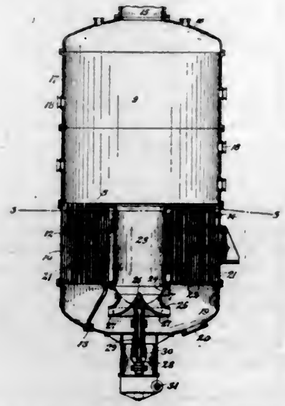
1. In a shock absorbing strut for aircraft, a cylinder, a piston therefor, means for mounting said cylinder and piston to have a substantially horizontal operative position, a dome extending upwardly from said cylinder in the operative position of the latter, said dome being in communication with the cylinder near the closed end thereof beyond the innermost position of the piston, said strut containing a quantity of liquid sufficient to fill a portion of the dome and all of the cylinder in the expanded position of the strut, and containing also a quantity of compressed air, said piston behind the piston head being shaped to provide an annular chamber between the piston and cylinder, and means for permitting relatively free flow of liquid into said annular chamber upon the forward stroke of the piston and restricted flow out of said chamber when the piston moves in the opposite direction.

1,782,142. TIMING INDICATOR FOR INTERNAL-COMBUSTION ENGINES. WILLIAM D. HAVENS, Schenectady, N. Y. Filed Feb. 12, 1929. Serial No. 339,372. 1 Claim. (Cl. 33—180.)



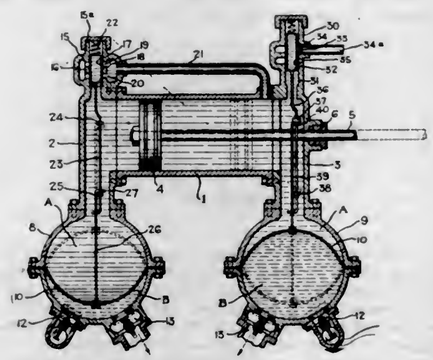
In a timing indicator for internal combustion engines, the combination of a hollow plug adapted to screw into a spark plug opening, a tube screwed to the plug and provided with two slots, said tube being provided with a scale, a hollow block mounted to slide freely in said tube, an indicator mounted on said block and adapted to slide in one of the slots, and to co-operate with the scale on the tube, an indicating rod mounted to slide within the plug, tube and block, a set screw carried by the hollow block and adapted to slide in the other slot of the tube to adjustably connect the indicator rod to the hollow block, an offset foot carried by the indicator rod to engage a piston out of line with the plug, and a spring normally pressing the offset foot away from the plug.

1,782,143. EVAPORATOR. HARLAN W. HOW, Buffalo, N. Y., assignor to Buffalo Foundry & Machine Company, Buffalo, N. Y., a Corporation of New York. Filed Jan. 12, 1927. Serial No. 160,748. 1 Claim. (Cl. 259—96.)



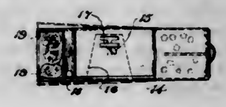
A circulator for evaporators of the character described, comprising an upright conduit having an upper section having a cylindrical wall of comparatively large diameter, an intermediate section having a tapering wall which reduces downwardly from the lower end of said cylindrical wall and a lower section having a flaring wall which enlarges downwardly from the lower small end of the wall of said intermediate section and extends with its lower edge laterally beyond the wall of the upper section; and a rotary impeller having a conical body arranged below said conduit and axially in line therewith and having its point projecting upwardly into the lower and intermediate sections of said conduit and having its wall flaring downwardly from said point at a distance from the wall of said lower conduit section and forming between the latter and the body of said impeller an annular outlet passage which in radial section is wide at the top and gradually reduces downwardly toward the narrow lower end thereof; and blades arranged on the upper side of said impeller body and in the downwardly reducing space between the marginal part thereof and the inner side of the wall of said lower conduit section.

1,782,144. PUMP. FREDERICK H. JENSEN, Seattle, Wash. Filed Nov. 7, 1928. Serial No. 317,729. 6 Claims. (Cl. 103—44.)



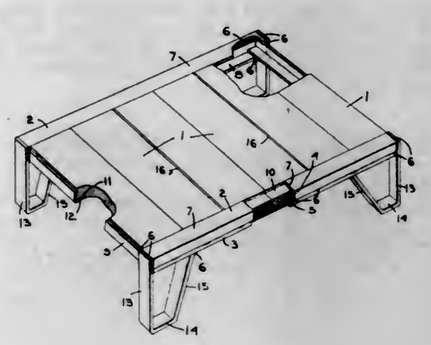
1. In a pump comprising a cylinder, a piston reciprocally operable in the cylinder, pumping chambers connected with opposite ends of the cylinder, flexible diaphragms dividing the pumping chambers, said chambers having valved inlets and valved outlets at one side of the diaphragm, and a liquid pumping medium filling the cylinder and chambers between the piston and the other sides of the diaphragms, and means associated with the cylinder for automatically maintaining a predetermined amount of pumping medium in the cylinder, and means for automatically maintaining a predetermined amount of the medium at the opposite sides of the piston.

1,782,145. COMBINED CIGARETTE-PACKAGE HOLDER AND MATCH BOX. SAMUEL A. KORNSWEET, Venice, Calif. Filed Jan. 30, 1928. Serial No. 250,515. 4 Claims. (Cl. 206—38.)



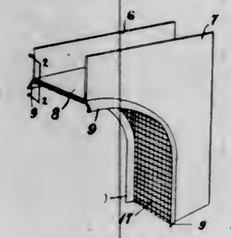
1. In a device of the character described, a cigarette package holder formed from a single piece of sheet metal bent to form side walls, a rear wall and overlying top members, connections between said overlying top members whereby the same may move past each other to permit the free edges of the side walls to move toward and away from each other, inwardly projecting flanges on the free edges of the side walls of said holder, and inwardly projecting flanges on the lower edges of side walls and the rear wall of said holder.

1,782,146. PORTABLE PLATFORM. ARTHUR LEM LEWIS, Newton Center, Mass., assignor to Lewis-Shepard Company, Watertown, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1926. Serial No. 148,913. 10 Claims. (Cl. 248—41.)



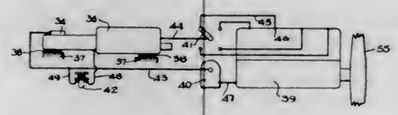
1. A portable platform comprising floor members, side members of channel shape fabricated from associated angle bars having their vertical flanges welded together longitudinally in such manner as to cause the horizontal flanges thereof closely to engage the upper and under faces of the end portions of the floor members and transverse metal girders welded to the respective ends of the channel bars to provide an integral frame and to protect the ends of the floor.

1,782,147. METAL ARCH MEMBER FOR OPENINGS. THOMAS MERRYWEATHER, Akron, Ohio. Filed July 18, 1929. Serial No. 379,106. 9 Claims. (Cl. 72—116.)



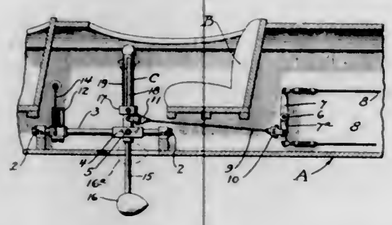
1. In a device for forming an arched plastering base for the construction of plastered openings, parallelly disposed side walls of sheet material, each side wall having an inwardly arched edge and a correspondingly arched wall connecting said side walls, said side walls and end walls joining in flanges forming plastering grounds.

1,782,148. SYNCHRONIZED MACHINE GUN. OSCAR A. ROSS, New York, N. Y. Filed Oct. 26, 1927, Serial No. 228,859. Renewed Oct. 29, 1928. 12 Claims. (Cl. 89—28.)



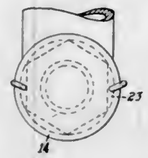
11. In combination with an internal combustion motor having an ignition system for ignition of the explosive charges therein and a machine gun arranged to fire electrically fired ammunition, of means for firing the ammunition in synchronism with the ignition of the explosive charges in the motor.

1,782,149. STABILIZER FOR AEROPLANES. HERVEY M. SALISBURY, Walnut Grove, and ARTHUR E. MILLER, Sacramento, Calif. Filed Jan. 31, 1928, Serial No. 250,760. Renewed Jan. 9, 1929. 5 Claims. (Cl. 244—20.)



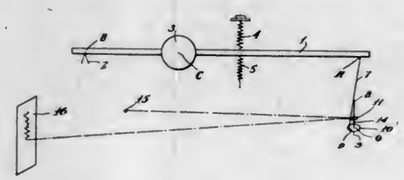
1. In an aeroplane, an operating lever whereby the position of the ailerons and the elevator is controlled, a pivotal mounting for the lower end of the lever, a rod carried by the operating lever, a weight on the lower end of the rod, manual actuated means whereby the rod may be raised to a point where the weight will assume an inoperative position, or conversely lowered to a point where the weight will gravitationally function to maintain the operating lever in a vertical position, and means whereby the angle formed by said rod and operating lever may be varied.

1,782,150. VALVE PROTECTOR. PETER J. SHRUM, Monaca Heights, Pa., assignor to Pittsburgh Screw and Bolt Corporation, a Corporation of Pennsylvania. Filed Mar. 1, 1928. Serial No. 258,356. 1 Claim. (Cl. 137—91.)



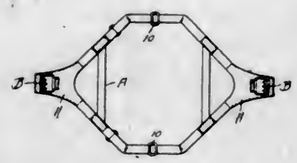
The combination with a valve having an opening therein, said opening terminating in a hexagonal flange, said opening being internally threaded, of a cup-shaped protector whose diameter corresponds to the maximum diameter of the hexagonal flange and being formed to fit over said flange, said cup-shaped protector having openings adjacent its inner circumference and the smallest diameter of said hexagonal flange, and means for engaging said openings for fastening said protector to the valve.

1,782,151. MEASURING OR DETECTING DEVICE. WILLIAM JAMES STALLAN, Cambridge, England, assignor to Cambridge Instrument Company, Limited, London, England, a Corporation of Great Britain. Filed Dec. 9, 1929, Serial No. 412,671, and in Great Britain June 6, 1929. 6 Claims. (Cl. 234—1.)



1. An instrument for detecting very small movements of a point having, in combination, means connecting the point with another point that is constrained to move in a path that is not parallel to the path of movement of the first-named point, and means for detecting the movement of the second-named point.

1,782,152. SANITARY-NAPKIN BELT. ESTELLA STATTER, Sioux City, Iowa. Filed Mar. 9, 1929. Serial No. 345,680. 2 Claims. (Cl. 128—291.)



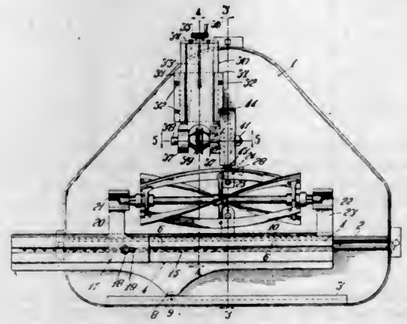
1. In a sanitary napkin belt, in combination with a pad, a hinge sleeve secured thereto and positioned substantially horizontally when the belt is being worn, and a buckle comprising a closed loop having spaced portions, one of which is received in the hinge sleeve, prongs formed integrally with the other portion and extending into the space within the loop, substantially in the plane of the loop, each of said prongs having a rounded tip and a laterally projecting lug spaced from said tip.

1,782,153. RAIL TIE. LUDOVIC SZEPSY and IONACZ WINDISCH, Arad, Rumania. Filed Apr. 11, 1930. Serial No. 443,303. 7 Claims. (Cl. 238—62.)



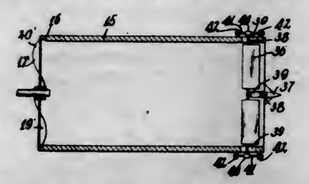
1. A rail tie, comprising a body member for extending transversely beneath a pair of rails and formed with a pair of end elements for engaging the outer sides of said pair of rails, a pair of bosses positioned adjacent the inner sides of said rails, and side walls connecting said end elements, plates extended across said side walls and over said bosses, jaw plates on said plates and abutting against the inner sides of said rails, means for holding said jaw plates in place, pegs projecting from said jaw plates and engaging in apertures in said rails, and lugs projecting from said side walls and extending partially over the jaw plates from the inner sides for aiding in holding the jaw plates in place.

1,782,154. MACHINE FOR GRINDING MOWER ELEMENTS. ROBERT A. THOMAS, Lombard, Ill. Filed June 16, 1928. Serial No. 285,920. 1 Claim. (Cl. 51—95.)



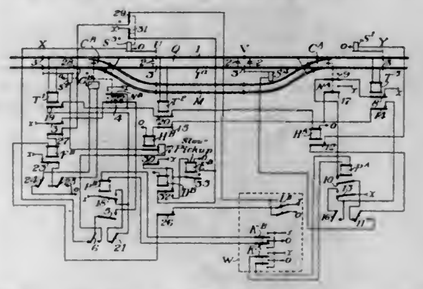
A grinding machine comprising a horizontal support or bed plate, an upwardly projecting longitudinal flange along one edge thereof provided with a longitudinal groove in its inner face, an upstanding longitudinal rib between the side edges of said bed plate parallel with said flange and having a V-shaped groove in its upper face, a carriage provided in its lower face with a V-shaped groove opposed to the groove of said rib, antifriction balls interposed between said rib and said carriage and confined in said grooves, an arm on said carriage equipped at its outer end with a roller engaging in the groove of said flange, a downwardly extending flange on said carriage overhanging said rib and provided in its exposed face with a longitudinal groove, a member removably mounted on said bed plate and engaging in said last-named groove, arms at opposite ends of said carriage provided at their outer ends with formations to receive and pivotally engage the axial terminals of a rotary cutter and hold the latter against longitudinal movement relatively to said carriage, a grinding wheel rotatable on an axis parallel with that of the supported rotary cutter arranged for adjustment toward and from said carriage, and a vertically adjustable stop element arranged proximately to the circumferential face of the grinding wheel and adjustable toward and from the carriage for cooperation to maintain a blade to be ground properly positioned relatively to the grinding wheel during reciprocation of said carriage, the said wheel rotating in a direction to maintain the blade being ground in firm contact with said stop element.

1,782,155. NAUTICAL CYLINDER OR TUBE. ARCANGELO TOSCANO, New York, N. Y. Filed June 13, 1929. Serial No. 370,497. 2 Claims. (Cl. 244—18.)



1. In combination with a motor driven propeller, a tubular member in line with the discharge of the propeller and arranged to canalize the discharge and prevent lateral escapement, and horizontal and vertical rudders arranged in the discharge of the tubular member, said rudders being arranged for adjustment relative to the discharge end of the tubular member, spindles projecting from said rudders and extending thru slots in said tubular member, bearings supporting the ends of the spindles, and screws at right angles to the spindles adjustably supporting the bearings and rotatively mounted on the tubular member accomplish the adjustment of the rudders.

1,782,156. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. JAMES J. VANHORN, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Mar. 18, 1930. Serial No. 436,743. 3 Claims. (Cl. 246—3.)

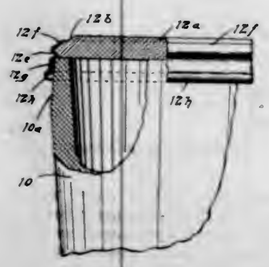


2. In combination, a stretch of railway track divided into sections, track circuits including track relays for said sections, a switch C^A in the track section at the east end of said stretch and a switch C^B in the track section at the west end of said stretch, a west-bound signal S^1 and an eastbound signal S^2 governing traffic into said stretch, a west-bound signal S^3 governing traffic into the track section at the west end of said stretch, an eastbound signal S^4 governing traffic into the track section at the east end of said stretch, a polarized relay P^A for the control of signals S^1 and S^4, a polarized relay P^B for the control of signals S^2 and S^3, a home relay H^B associated with said signals S^2 and S^3 and having a front contact included in the control circuit for signal S^2, a circuit for relay H^B including front contacts of all of said track relays except the one for the section at the west end of said stretch and a back contact of relay P^A, a branch for said circuit around the back contact of relay P^A and including a front contact of relay P^A and a polar contact of relay P^A closed when the relay is energized to clear signal S^4, and means for controlling said switch C^B by said relay H^B.

1,782,157. COVER AND PROCESS OF MAKING. AXEL M. WALSTROM, Minneapolis, Minn., assignor to Elgin Butter Tub Company, Elgin, Ill., a Corporation of Illinois. Filed Apr. 14, 1927. Serial No. 183,691. 11 Claims. (Cl. 217—76.)

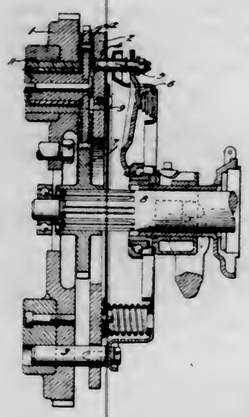
6. The method of forming a cover for a container which consists in providing a nonmetallic central portion forming

the edge thereof of convex shape in radial cross section, forming a hoop of a strip of metal and spinning said



hoop about the edge of said central portion so as to embrace the same and be secured thereto with its upper edge below the top of said central portion.

1,782,158. DIFFERENTIAL-ACTION CLUTCH. ERNEST E. WEMP, Detroit, Mich. Filed Aug. 24, 1928. Serial No. 301,803. 2 Claims. (Cl. 74—34.)



1. In a clutch, the combination of a driving member, stub shafts journaled in the driving member, a pinion mounted on each stub shaft, said pinions having friction material on each side, a pressure plate mounted upon the opposite side of the pinions from the driving member, a driven member including a gear which meshes with the said pinions, and means acting upon a pressure plate to pack the pinions in between the driving member and pressure plate to frictionally hold them against rotation so that they positively drive the geared driven member with the driving member, said pinions being free so as to rotate upon relief of the pressure by the pressure plate, which rotation is effected by relative rotational movement between the driving and driven members, the inertia incident to the setting up of rotary movement of the members being effective so as to tend to cause rotation of the driven member with the driving member.

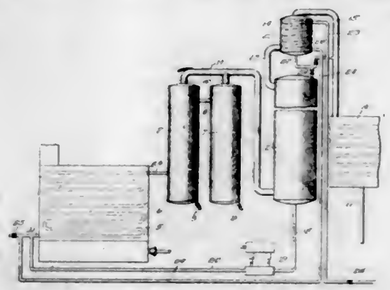
1,782,159. SHADE HOLDER. CHARLES J. AUSTIN, Utica, N. Y., assignor to Robert E. Roberts, Utica, N. Y. Filed May 29, 1930. Serial No. 457,452. 8 Claims. (Cl. 156—10.)

4. A shade holder comprising an open-sided and open-ended tubular casing adapted to house a shade roller and a shade thereon and having opposing spaced flanges at the edges of said side opening, end members removably mounted in the ends of said casing and having bearings



to engage the shade roller pins, means engaging the opposite casing flanges near their ends for contracting the casing to hold the said end members therewithin.

1,782,160. ART OF CONVERTING HIGH-BOILING HYDROCARBON OILS. EDWARD E. BARTELS, Whiting, Ind., assignor to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed July 12, 1926. Serial No. 121,850. 2 Claims. (Cl. 196—48.)

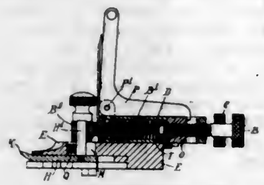


2. The method of forming desired low boiling products of the nature of gasoline from higher boiling products which comprises passing the higher boiling oil to be converted through a confined passage in which it is heated to conversion temperature under pressure, the oil being passed through said passageway at a rate such as to prevent substantial deposition of coke therein, maintaining the oil at conversion temperature to effect the desired conversion thereof, separating the conversion products into a vapor portion and an unvaporized portion, passing the vapors through a dephlegmating chamber in countercurrent to reflux condensate, passing all of the fresh oil entering the system into indirect heat conductive contact with the uncondensed vapors from said dephlegmating chamber in a reflux condensing zone, separating the condensate formed from said vapors by the cooling action of said fresh oil, returning a controlled proportion of said condensate from the refluxing zone to the dephlegmating chamber, to pass therethrough in countercurrent to the vaporized portions of the converted products, discharging the remainder of said condensate together with the uncondensed vapors into a condenser and charging the feed stock preheated by said vapors into the confined passageway.

1,782,161. CIRCULAR-KNITTING MACHINE. JOHN HENRY GLENN BAYLES, Nottingham, England. Filed Nov. 26, 1929, Serial No. 409,856, and in Great Britain Dec. 12, 1928. 4 Claims. (Cl. 66—101.)

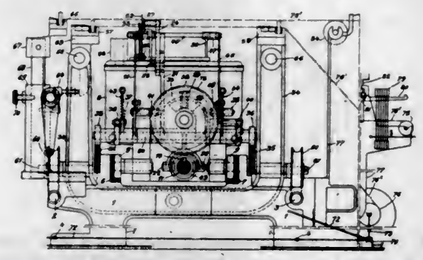
1. In a circular knitting machine, means for adjusting the presser and sinker cams comprising in combination a sinker cam ring, a housing secured on the upper face of

the said cam-ring, a series of adjustment screws disposed in the housing said screws having screw-threaded parts engaging in the housing or parts disposed therein, and



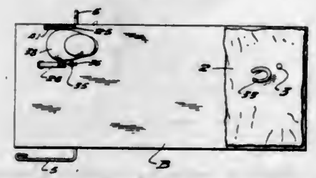
screw-threaded parts of a different pitch engaging in sleeves which are connected to the respective cam-slides on the underside of the cam-ring, substantially as described.

1,782,162. MACHINE FOR KNOTTING WARPS. ULRICH BISCHOF, Aarau, Switzerland. Filed May 29, 1929, Serial No. 367,024, and in Switzerland Oct. 4, 1928. 2 Claims. (Cl. 28—49.)



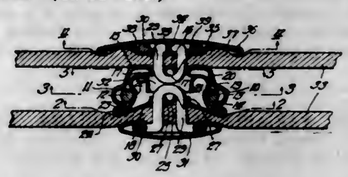
1. A machine for knotting a fresh warp to an existing warp, which warps are clamped and secured in grips, comprising grip carrying members which are constructed as downwardly bent bows, comprising bridge pieces passing through underneath the driving shaft, and the machine further comprising a toothed rack fixedly mounted upon the machine, a second toothed rack fixed to the warp carriage and displaceable with it, both of the said toothed racks being arranged inside the warp carriage in such a way that the transverse bridge pieces of the downwardly bent rows are continuous underneath the racks so that one and the same rack is made continuous for a plurality of machines coupled together, toothed wheels rotatably mounted on the knotting carriage and meshing with the said racks, ratchet wheels associated with the toothed wheels, and ratchet mechanisms for rotating the ratchet wheels and thereby displacing the knotting carriage and the warp carriage automatically and uninterruptedly.

1,782,163. AMUSEMENT DEVICE. LAWRENCE L. COOK, Indianapolis, Ind. Filed Mar. 19, 1929. Serial No. 348,308. 8 Claims. (Cl. 46—40.)



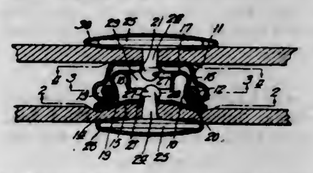
1. An amusement device of the class described comprising a base, an upstanding post mounted thereon, a member pivotally engaged with said post and extending upwardly therefrom, said post having a stop with which said member contacts to limit the upward swinging movement of the member, means for normally maintaining said member at said limit of movement, a projector arm carried by said member, and means for imparting requisite movement to the projector arm, said means also operating to impart downward swinging movement to the member.

1,782,164. SECURING MEANS. IRA D. FORD, Roseland, Ontario, Canada, assignor to Universal Button Fastening & Button Company, Detroit, Mich., a Corporation of Michigan. Filed June 11, 1928. Serial No. 284,313. 9 Claims. (Cl. 24—208.)



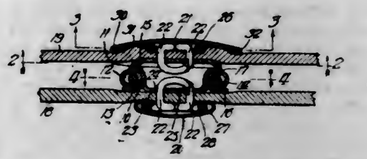
1. A snap fastener structure comprising in combination a snap fastener element having a cloth engaging base pierced to provide spaced openings and an intervening attaching bar, the metal displaced to provide said openings being curled inwardly to provide up-standing marginal flanges for said bar, said base being corrugated to reinforce the same, and an attaching fastener having a head and spaced pointed prongs, said head and base being of a size to present substantial cloth engaging faces, said prongs piercing the cloth without severing any part thereof and being bent around the attaching bar under pressure to cause said head and base tightly to grip opposite sides of the cloth.

1,782,165. SECURING MEANS. IRA D. FORD, Roseland, Ontario, Canada, assignor to Universal Button Fastening & Button Company, Detroit, Mich., a Corporation of Michigan. Filed June 11, 1928. Serial No. 284,314. 6 Claims. (Cl. 24—208.)



6. A snap fastener structure including two spaced cloth engaging members, one being a base, a headed and flanged stud element having the flange thereof secured to said base, the head of said element being circular and having an inwardly extending annular stiffening flange, and attaching means for said members including a single pointed prong projecting from the other of said members and extending through said base, the pointed end of said prong being upset after entering the base and being adjacent the annular stiffening flange aforesaid.

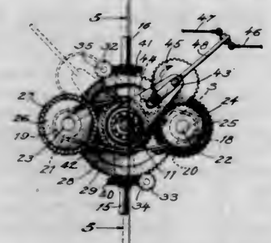
1,782,166. SECURING MEANS. IRA D. FORD, Roseland, Ontario, Canada, assignor to Universal Button Fastening & Button Co., Detroit, Mich., a Corporation of Michigan. Filed Dec. 22, 1927. Serial No. 241,761. 8 Claims. (Cl. 24—208.)



1. Means for securing cloth fabric together comprising in combination a pair of interfitting snap fasteners each having a relatively large base constructed and ar-

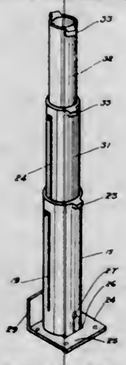
ranged to engage a substantial area of cloth, a fastener attaching means for each fastener part comprising a cloth engaging head corresponding in size to the fastener base and having a pair of spaced cloth piercing prongs projecting therefrom, each base being pierced at separated points and providing spaced openings and an intervening bar, said intervening bar being flat and continuously smooth on both sides thereof, prongs of the attaching means being bent around the bars of the respective fastener parts under pressure, whereby a substantial area of cloth is gripped between the fastener base and the attaching head and the area of cloth between the fastener prongs cooperates to prevent separation of the fastener from the cloth.

1,782,167. VARIABLE-PITCH PROPELLER. CLARENCE KIRK GREENE, Cananea, Mexico. Filed Nov. 20, 1928. Serial No. 320,640. 11 Claims. (Cl. 170—163.)



1. A rotary propeller having blades adjustable to vary the angles of incidences thereof, means including a gear rotatably mounted on the propeller shaft, for moving the blades to vary their angles of incidences in response to driving of said gear at a speed different from the propeller speed, means for driving said gear at a speed different from the propeller speed including a driving gear fixed to the propeller shaft, and means for operatively connecting the driving gear to and disconnecting it from the first mentioned gear.

1,782,168. COLLAPSIBLE POST. LAWRENCE JOUBERT, Williamstown, Ontario, Canada. Filed Sept. 9, 1929. Serial No. 391,491. 3 Claims. (Cl. 105—381.)

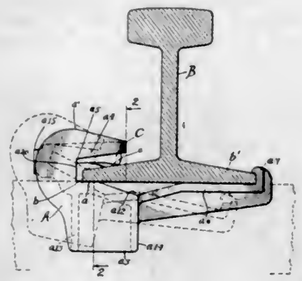


3. In a collapsible post, an angle plate having a slot in one section parallel to the other section, a bolt hole in the latter section, a tubular extensible post having its length telescopically arranged, a longitudinal slot and a locking slot in one of the inner lengths, a stop carried by a length within said inner length, said stop receivable in either of said slots, lugs carried at the outer ends of each length for extension purposes, the outer length having a supporting lug projecting therefrom, a slot in said lug, a second slot in said outer length opposite said first mentioned slot and a bolt through said slots and through said bolt hole in said angle plate and fastened by a nut.

1,782,169. PROCESS FOR PREVENTING THE WEATHERING (ESPECIALLY CLOUDING, TARNISHING, AND LUSTERING) OF THE SURFACE OF GLASS. KIYOSHI KAMITA, Ushigome-Ku, Tokyo, Japan, assignor to The Asahi Glass Company Limited, Tokyo, Japan. Filed Sept. 9, 1927, Serial No. 218,580, and in Japan Oct. 21, 1926. 1 Claim. (Cl. 49—77.)

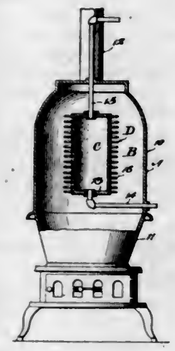
A process for preventing the weathering, clouding, and tarnishing of the surface of glass which comprises treating the surface of the glass with an acid gas at a temperature between 300° C. and 600° C., the said acid gas being a mixture of gas normally present in the leer and additional acid gases.

1,782,170. RAIL ANCHOR. WILLIAM ALEXANDER KENNEDY, Oak Park, Ill. Filed May 27, 1929. Serial No. 366,354. 9 Claims. (Cl. 238—316.)



1. A rail anchor comprising a body, and a split spring washer held non-rotatably by the body and in a position wherein one end thereof is adapted to bite directly against one of the base-flanges of a rail and prevent the anchor from moving lengthwise of the rail in one direction.

1,782,171. HEAT-CONDUCTING MEANS FOR STEAM GENERATORS OR FLUID HEATERS. PAUL M. LATTNER, Cedar Rapids, Iowa. Filed Oct. 31, 1928. Serial No. 316,234. 2 Claims. (Cl. 257—263.)



1. In combination, means for confining a medium to be heated, means for confining a heating medium in heat exchange relation with the first mentioned medium, and a plurality of arched members arranged in staggered relation with respect to each other and having the ends of their parallel leg portions connected to one of said means and projecting into the space confined by the other of said means.

1,782,172. CUTTER BIT AND CARRIER THEREFOR. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Mar. 8, 1924. Serial No. 697,789. 16 Claims. (Cl. 262—33.)



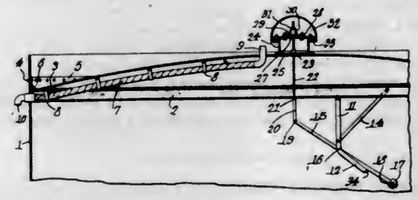
1. In a coal cutting apparatus, the combination with a cutter chain, of a cutter bit having a plurality of cutting arms adapted to be successively placed in coal cutting position upon the chain, and means upon the chain to engage at least two of said arms to hold the bit against bodily displacement and at least one arm in coal cutting position.

1,782,173. AUTOMOBILE DOOR OR WINDOW SCREEN. LEONARD H. NICHOLSON, Chula Vista, Calif. Filed May 7, 1928. Serial No. 275,769. 1 Claim. (Cl. 156—14.)



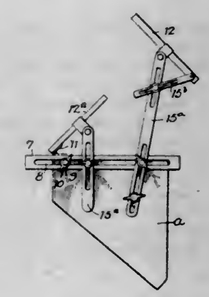
In a screen for placing within the opening formed by a lowered, vertically adjustable vehicle door or window pane, a screen, a unitary, rectangular frame, including upright and horizontal channel portions adapted to embrace the marginal portions of said screen, said upright portions adapted to fit snugly against the sides of said opening, the upper horizontal portions adapted to fit snugly within the slot normally receiving the upper margin of said pane when closed, the lower horizontal channel member having extended marginal portions, said portions being bent initially downwardly, then curved outwardly and downwardly, forming together a substantially U-shaped channel, a relatively soft, resilient channel member securely clamped within said U-shaped channel and forming depending lip portions for receiving and gripping the upper margin of said pane.

1,782,174. WATER ROOF TANK. JOHN FRANKLIN PATTERSON, Warren, Ohio, assignor to The Warren City Tank & Boiler Company, Warren, Ohio, a Corporation of Ohio. Filed Oct. 8, 1927. Serial No. 224,956. 3 Claims. (Cl. 220—44.)



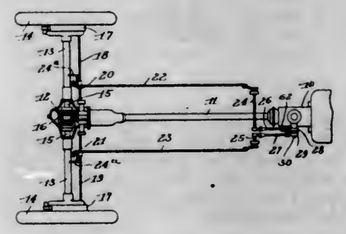
1. In a device of the class described, a tank having a flexible roof, a tubular member mounted on the roof, a valve seat carried by the tubular member, a spider mounted in the tubular member, a connecting rod slidable in the spider, a valve which closes against the under side of the seat, means for mounting the valve on the connecting rod for adjustment longitudinally of the connecting rod, a frame work within the tank, a fulcrum bracket mounted on the frame work and having an inclined end, a lever pivotally mounted intermediate its ends on the bracket, a link pivoted to one end of the lever and to the connecting rod, a weight adjustable along the opposite end of the lever, means for holding the weight in adjusted positions along the last-specified end of the lever, and the last-specified end of the lever being engageable with the inclined end of the fulcrum bracket after the lever has tilted a predetermined amount, thereby to stop the movement of the lever and the valve and to permit the seat to move with the roof, away from the valve, when the roof flexes beyond a predetermined point, thus bringing about a venting of the tank through the seat.

1,782,175. ILLUMINATED SIGN. JOHN D. PEARMAIN, Scarborough, N. Y. Filed Sept. 21, 1928. Serial No. 307,506. 11 Claims. (Cl. 40—130.)



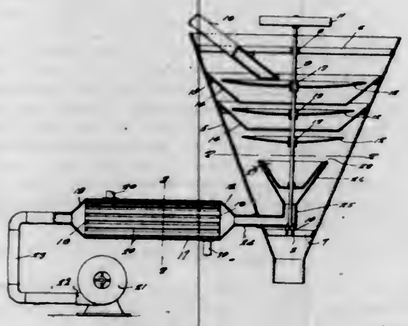
1. An illuminated sign having a stencil plate through which the daylight passes, and a reflector on one side of the plate into which the stencil is projected and in which the image of the stencil is projected and viewed; in combination with a plurality of auxiliary reflectors at different angles arranged on the opposite side of said plate to reflect artificial light from distant different sources through the plate to the first reflector normally unassociated with the sign.

1,782,176. BRAKE MECHANISM. FRANK W. PICHÉ, Detroit, Mich. Filed June 6, 1927. Serial No. 196,713. 17 Claims. (Cl. 188—16.)



1. The combination with a vehicle frame having a plurality of traction members and brakes therefor having different actuating parts, an operating device for said actuating parts mounted for movement to different selective positions to effect individual operations of said actuating parts and a guard for said operating device arranged to be moved to release position by movement of the operating device to a predetermined position in advance of its movement to said selective positions.

1,782,177. SUGAR DRIER. DAVID K. RICHARDS, Hilo, Territory of Hawaii. Filed July 19, 1929. Serial No. 379,541. 1 Claim. (Cl. 34—10.)



In a sugar drying apparatus, a hopper, a rotary shaft within the hopper, a disk fixed upon said shaft, and means for introducing heated air into the hopper including a funnel shaped nozzle disposed in concentric relation with respect to the shaft and positioned below the said disk, an inverted frusto-conical member nesting within said funnel shaped nozzle in circumferentially spaced relation therewith and being fixed to said shaft, said nozzle and frusto conical member being of such relative spacing at their larger upper ends as to provide a continuous vertically discharging air outlet of annular extension and having their respective side walls of such inclination as to direct the heated air in a solid annular wall to the periphery of the said disk.

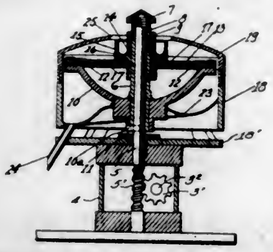
1,782,178. SHOE-SHANK SUPPORT. SAMUEL RICHMOND, Batavia, Ohio, assignor to The Edwards Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 24, 1928. Serial No. 264,393. 5 Claims. (Cl. 36—76.)



5. A metal shank support for shoes comprising a formed strip of sheet metal having its forward end enlarged and slitted to provide strips, adjacent strips being bent in opposite directions and providing spaced supporting means for superposed shoe sole members between which the shank support may be mounted.

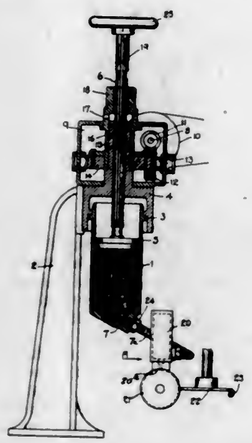
1,782,179. CENTRIFUGAL EXTRACTOR. FRED RODLER, Cincinnati, Ohio. Filed Nov. 2, 1927. Serial No 230,609. 7 Claims. (Cl. 210—63.)

1. A centrifugal extractor comprising a rotatable shaft, a bowl, a cover for said bowl, means for clamping said cover on said bowl, a casing surrounding said bowl having a lid, a sleeve detachably mounted on said shaft, said sleeve and shaft extending through said bowl cover, said bowl attached to and rotatable with said sleeve, said bowl cover having an extended hub having an annular groove



therein with a passage extending from said groove to within said bowl for directing the flow of fluid to the outer periphery of said sleeve.

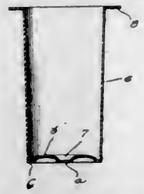
1,782,180. CIGARETTE-MAKING MACHINERY. FÉLIX FRÉDÉRIC RUAU, Deptford, London, England. Filed July 23, 1928, Serial No. 294,753, and in Great Britain Aug. 20, 1927. 1 Claim. (Cl. 131—39.)



In a device for applying adhesive, the combination with a receptacle having an aperture at one end thereof through which adhesive may be introduced and discharged, a piston movable in said receptacle toward the apertured end thereof for discharging adhesive from the latter, a threaded piston rod associated with said piston, a frame on which said receptacle is removably supported, threaded means held against rotation by said frame and engaging the threaded portion of said piston rod, a rotatable element journalled on said threaded means, a member splined to said piston rod and having a disengageable clutch connection with said rotatable element, an adhesive furnishing roller, a nozzle disposed adjacent the periphery of said roller for delivering adhesive thereto, and a detachable flexible conduit interposed between said aperture and said nozzle for conveying adhesive to the latter whereby said receptacle may be readily removed for filling and replaced without disturbing the relative positions of said nozzle and roller.

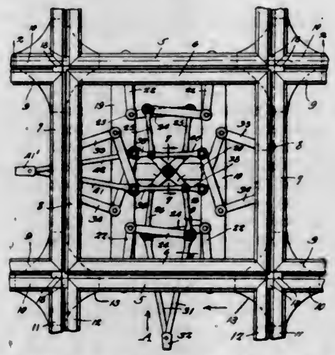
1,782,181. SIGN REFLECTOR. EMIL SIMPSON, Spooner, Wis. Filed Dec. 17, 1928. Serial No. 326,558. 3 Claims. (Cl. 40—130.)

3. As a new article of manufacture, a reflector of the class described including a tubular body with a disk at one end thereof, said disk including a plain center with an annular inwardly directed bulge portion thereabout and a plain ring portion about the bulge portion, said tubu-



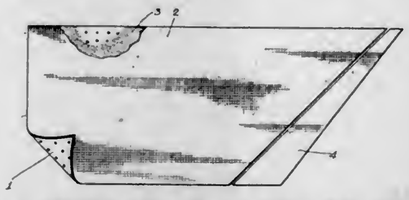
lar body tapering toward the disk end thereof, the other end thereof being formed with an outwardly directed annular flange.

1,782,182. RAILROAD CROSSING. MICHAEL G. STOLLER, Paulding, Ohio. Filed May 10, 1930. Serial No. 451,431. 1 Claim. (Cl. 246—380.)



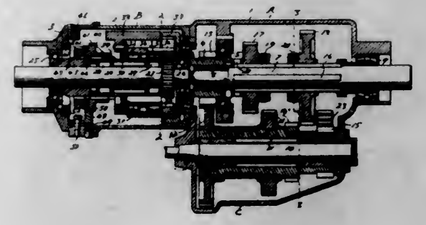
In a railway crossing, rail chairs having bores extending horizontally therethrough, said railway chairs having vertical openings, vertically movable rail sections operating in the vertical openings, said rail sections having grooves in the lower ends thereof, wedge shaped members mounted in the horizontal bores, the upper edges of the wedge shaped members being inclined and positioned in the grooves of the rail sections, and levers for operating the wedge shaped members.

1,782,183. TIE, TIE PIECE GOODS, AND METHOD OF MAKING. NATHAN J. STRAUSS, Lynbrook, N. Y., assignor, by direct and mesne assignments, of one-third to Freydberg Bros., Inc., New York, N. Y., a Corporation of New York, and two-thirds to Joseph Silberman and Louis Kahn, trading as Resisto Manufacturing Company, Baltimore, Md. Filed May 17, 1926. Serial No. 109,648. 5 Claims. (Cl. 2—146.)



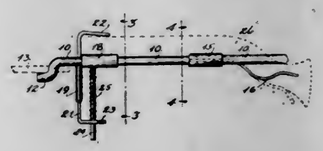
1. A necktie, composed of a face piece, a back piece, and an elastic adhesive material interposed between the two pieces and intimately uniting the same throughout the area of the pieces falling within the knot-tying portion of the tie, said three parts being resilient longitudinally.

1,782,184. TRANSMISSION. WALTER W. WELLS, Lansing, Mich., assignor to Reo Motor Car Company, Lansing, Mich., a Corporation of Michigan. Filed Dec. 22, 1924. Serial No. 757,504. 2 Claims. (Cl. 74—58.)



2. A transmission comprising a pair of interconnected casings, a rotatable member journaled in one of said casings and projecting within the other of said casings, a projection in one of said casings having a bearing for one end of said member, external teeth on said member between said bearing and journal respectively, axially aligned shafts in each of said casings, each having one end journaled in a casing and the other end journaled in said rotatable member, a countershaft gearing between said countershaft and said external teeth, gearing between said countershaft and one of said axially aligned shafts and internal gearing between said rotatable member and the other of said shafts.

1,782,185. HOLDER FOR PAPER SLIPS. ROBERT S. YOUNG, New Brighton, N. Y. Filed Jan. 20, 1930. Serial No. 422,210. 4 Claims. (Cl. 24—66.)

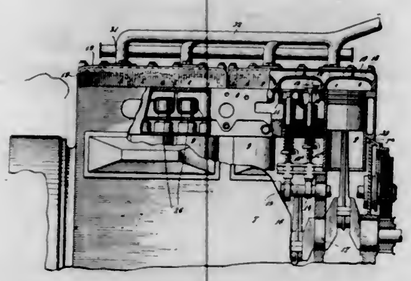


1. A device of the kind described consisting of a frame having a pair of sides and a cross end, a bridge member connecting said sides in spaced relation to said end, a clamp adjacent the other end of said frame, said sides being spaced to permit passage of a bunch of slips therebetween to extend below the cross end, and means to press the bunch of slips lightly against the cross end.

1,782,186. ASPHALTIC MATERIAL AND PROCESS FOR MANUFACTURE. GENE ABSON, Chicago, Ill., assignor to Chicago Paving Laboratory, Inc., Chicago, Ill., a Corporation of Illinois. Continuation of application Serial No. 252,945, filed Feb. 8, 1928. This application filed Oct. 25, 1929. Serial No. 402,548. 10 Claims. (Cl. 196—74.)

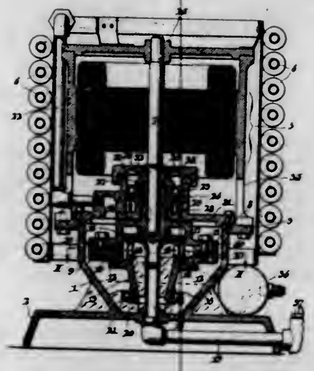
1. The process of treating petroleum residuum in the conversion thereof to blown asphalt having a higher penetration for a given melting point than can be obtained from the same residuum without treatment, which comprises incorporating with said residuum a relatively small quantity of an inorganic non-alkaline earth metallic salt which is non-volatile at blowing temperatures, said salt being in insufficient amount to effect cracking of the residuum at blowing temperatures, and subjecting the residuum to air blowing while in a heated condition.

1,782,187. INTERNAL-COMBUSTION ENGINE. BENJAMIN B. BACHMAN, Philadelphia, Pa., and LOUIS S. CLARKE, Palm Beach, Fla., assignors to The Autocar Company, Ardmore, Pa., a Corporation of Pennsylvania. Filed July 18, 1928. Serial No. 293,683. 8 Claims. (Cl. 123—177.)



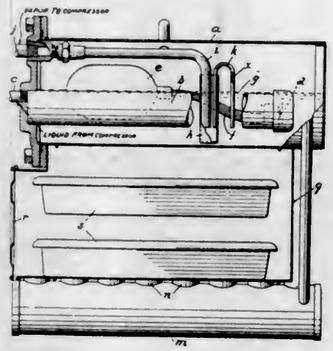
1. In an internal combustion engine having a water jacket, the combination of a passage disposed longitudinally within said jacket, and at the lowest part thereof, means communicating with said passage and with a water cooling unit for delivering the cooled water directly from said unit to said passage and means for ejecting the water from said passage into said water jacket beneath the exhaust valves, whereby said valves and their seats will be subjected to the cooling influence of the water received from the cooling unit while the heat absorption capacity of the liquid is greatest.

1,782,188. COMPRESSOR PUMP. EUGENE L. BARNES, Buffalo, N. Y. Filed Oct. 19, 1926. Serial No. 142,543. 2 Claims. (Cl. 230—108.)



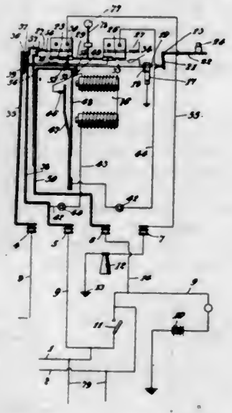
1. In a pump, a rotor with a hollow central portion communicating with a source of mercury, said portion having a series of outlet ports, said rotor having a series of passages, the cross-sectional areas of which diminish outwardly, communicating with said outlet ports and separated therefrom by an annular interval, a stator having an axial inlet communicating with a supply of fluid to be pumped and communicating with said annular interval, and an annular ported portion within the interval aforesaid cooperating with said rotor ports to intermittently expel by centrifugal action globules of said mercury and charges of said fluid.

1,782,189. REFRIGERATING APPARATUS. EUGENE L. BARNES, Buffalo, N. Y. Filed Feb. 15, 1928. Serial No. 254,336. 5 Claims. (Cl. 62—115.)



1. In a refrigerating apparatus, in combination, a refrigerant chamber, means for maintaining liquid refrigerant in said chamber, a sump within said chamber extending below the level of liquid refrigerant therein, a vapor discharge conduit extending into said sump and means extending beneath the level of refrigerant in said chamber and into said sump whereby liquid refrigerant is transferred from said chamber into said sump by capillary action.

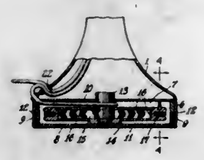
1,782,190. ALARM APPARATUS. JOSEPH ARTHUR BOLDUC, Montreal, Quebec, Canada, assignor to Automobile "Lock-Alarm" Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 26, 1926. Serial No. 90,732. 2 Claims. (Cl. 177—314.)



1. In a theft alarm system for automobiles, an alarm circuit, a switch in said circuit including a member biased for movement in one direction to circuit opening position, and latching means for holding said member in closed circuit position against said bias, a vibratory member, electromagnetic means included in a normally open circuit

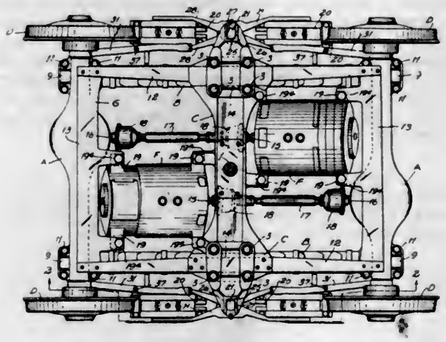
for vibrating said member, inter-engaging means between the first named member and said vibrating member for moving said biased member to latched position and to thereafter permit the free vibration of said vibrating member, and means including a ratchet and pawl mechanism operated by said vibrating member for releasing said latch member after a predetermined number of vibrations of said vibratory member.

1,782,191. TELEPHONE-CONNECTER TAKE-UP. JOHN ESTEN BOLLING, East Orange, N. J. Filed May 9, 1928. Serial No. 276,271. 11 Claims. (Cl. 179—155.)



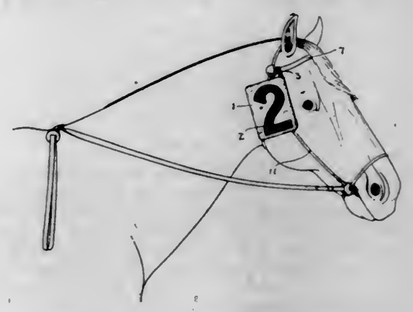
1. The combination with a telephone hand set, comprising a supporting member and a hand piece provided with transmitter and receiver, of a connecter reel connected with the base of said supporting member, a rewinding spring therefor, and a connecter connected with said hand piece, and having portions engaging said reel, adapted to be withdrawn therefrom when the hand piece is removed from said supporting member for use, and to be rewound thereon when the hand piece is replaced, and locking means for arresting said reel, said reel including interengaging portions on said reel and a part connected with said supporting member, said interengaging portions being constructed to be disengaged by a movement of the reel in either direction.

1,782,192. CAR TRUCK. NELSON R. BROWNYER, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a Corporation of Ohio. Filed Dec. 13, 1929. Serial No. 413,766. 17 Claims. (Cl. 188—165.)



1. A track brake comprising two arms adapted to extend longitudinally of the track and spaced apart from each other, supports for the remote ends of said arms permitting vertical swinging movement thereof, a member extending longitudinally of said track between the spaced ends of said arms, a brake shoe fixed to said member, and means for holding the adjacent ends of said arms and said member together to form a downwardly yieldable supporting frame for said brake shoe.

1,782,193. HEAD NUMBER FOR HORSES. PETER EDWARD CALLEN, Toronto, Ontario, Canada. Filed Jan. 5, 1929. Serial No. 330,478. 6 Claims. (Cl. 40—10.)



2. The combination with the head harness, of a placard having a number on one side detachably secured to said head harness with the number outermost.

1,782,194. HOLDING BAND. WINTHROP L. CARTER, Nashua, N. H., assignor to Nashua Surehold Company, Nashua, N. H., a Corporation of Massachusetts. Filed Jan. 21, 1929. Serial No. 333,915. 1 Claim. (Cl. 24—17.)

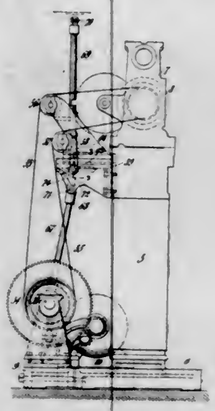


A band for holding articles, comprising an elongated imperforated strip, a narrow end edge of which is folded to provide a plurality of layers, a limited area of the strip adjacent to said folded end having a dry-gum coating.

1,782,195. BELT-TIGHTENING MECHANISM FOR MOTOR-DRIVEN SUPPLY UNITS. HUBERT DALTON, Stamford, Conn. Original application filed Jan. 16, 1922, Serial No. 529,406. Divided and this application filed Jan. 9, 1925. Serial No. 1,335. 1 Claim. (Cl. 64—5.)

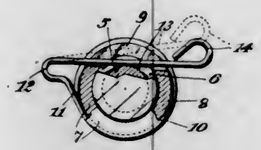
Belt tightening mechanism including, in combination with a horizontal driven shaft, coned pulleys on said shaft, a supporting standard therefor and a driving shaft, a pulley on said driving shaft, and an endless driving belt engaged with said pulleys; a supporting bracket fixed to and projecting laterally from one side of said stand-

ard, a pulley carriage mounted for sliding movement on said bracket, means for adjusting said carriage towards and from the supporting standard, said carriage including a single pair of spaced bearing standards, and a pair of belt guiding pulleys journalled upon and between



said standards arranged within their axes in fixed vertically and laterally spaced relation to each other and engaged with the respective stretches of the driving belt whereby said belt stretches are simultaneously and equally tensioned in the adjustment of said carriage.

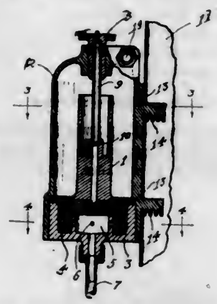
1,782,196. THREADLESS NUT OR COLLAR. HUBERT DALTON, Stamford, Conn. Filed Feb. 10, 1928. Serial No. 253,332. 3 Claims. (Cl. 287—52.08.)



1. In combination with a shaft having a circumferential groove in the face thereof, a collar for said shaft having a transverse slot in one side extending entirely through the wall thereof, and a retaining member for said collar consisting of a length of resilient wire held at one of its ends in fixed relation to the collar and having an intermediate bend therein extending laterally from one side of the collar, and a substantially straight portion extending through said slot inwardly of the inner face of the collar and terminating in a loop projecting laterally from the opposite side of the collar, said straight portion of the retaining wire adapted for engagement in the groove in said shaft and said portion of the wire adapted to be sprung outwardly by pressure against said terminal loop to permit of the axial movement of the collar relative to said shaft.

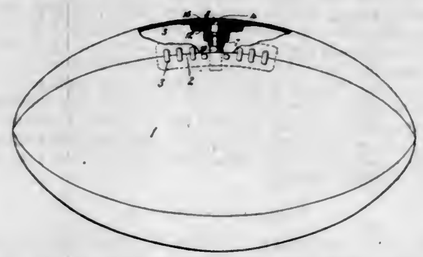
1,782,197. HUMIDIFIER. MARTIN DE GRAAF, Grand Rapids, Mich. Filed Feb. 25, 1928. Serial No. 256,861. 2 Claims. (Cl. 126—113.)

1. A humidifier of the class described comprising an outer container of thermally expansive material provided with means for securing it to the casing of a hot air heater or the like in heat absorbing relation to said casing, said container having a water inlet and a water outlet for supplying water to the hot air heater, an interiorly arranged valve mounted on the said container at one end thereof, and a cooperating valve seat on the opposite end of said container for controlling said water



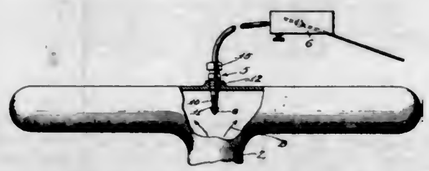
inlet, said valve and valve seat being in spaced relation with the walls of the container so as to be surrounded by water and thereby shielded from external heat.

1,782,198. INFLATABLE PLAYING BALL AND BLADDER THEREFOR. JAMES R. DENKERT, Johnstown, N. Y. Filed Jan. 25, 1930. Serial No. 423,307. 7 Claims. (Cl. 273—65.)



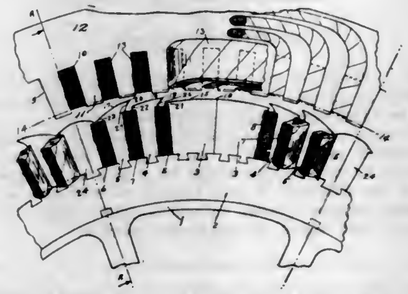
1. In an inflatable playing ball, the combination with a cover provided with a minute inflating aperture, of a bladder of rubber provided with a rubber valve enclosing sleeve having portions projecting from the bladder and provided at their outer end with a laterally extending rubber attaching and cushioning disc, provided with a plurality of stitch receiving apertures and stitched therethrough directly and permanently to the inner face of said cover adjacent the aperture, substantially co-axially with respect to said aperture, and valve mechanism, including a metallic valve sleeve, secured within said enclosing sleeve and out of contact with the cover.

1,782,199. VACUUM INDUCING CONSTRUCTION. ADIEL Y. DODGE, South Bend, Ind. Filed Sept. 29, 1927. Serial No. 222,705. 4 Claims. (Cl. 230—95.)



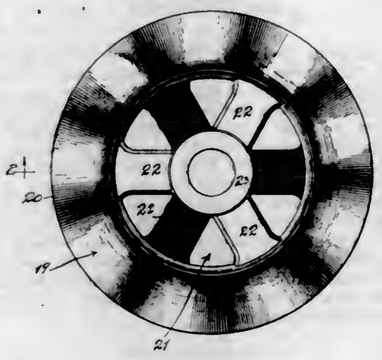
1. A suction inducing device having provisions for communication with a suction conduit and an intake conduit of an internal combustion engine comprising a tubular member having an enlarged head portion and a reduced shank portion, said shank portion having a longitudinal passage in communication with said suction conduit and leading to a position adjacent said enlarged head and having a transverse passage-way which places said longitudinal passage-way in communication with said intake conduit, said transverse passage-way opening into said intake conduit at a place adjacent the junction of the shank and head.

1,782,200. SYNCHRONOUS DYNAMO-ELECTRIC MACHINE. JOHN F. H. DOUGLAS and EDWARD W. KANE, Milwaukee, Wis. Filed Apr. 27, 1925. Serial No. 26,113. 9 Claims. (Cl. 171—252.)



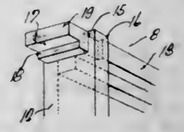
1. The combination with the armature of a dynamo electric machine, of a field magnet having a distributed winding comprising a plurality of coils for each pole, and pole members, each member of the pole so shaped with reference to its adjoining member that air-gaps on the two sides of any coil separating adjacent pole members are to each other as the magneto-motive forces on the respective faces of said pole members.

1,782,201. ROLLER PULVERIZER. RAY E. DUNHAM, Berea, Ohio, assignor to The Dunham Company, Berea, Ohio, a Corporation of Ohio. Filed Feb. 23, 1928. Serial No. 256,131. 7 Claims. (Cl. 55—77.)



1. A roller pulverizer disk having a concavely beveled periphery forming a circumferentially extending laterally undulating cutting edge, the roller disk being hollow and provided on each side with spokes merging into a centrally disposed hub, the spokes on one side being arranged in staggered relation with respect to the spokes on the other side, substantially as described.

1,782,202. HIVE FRAME. GORDON G. FRATER, Watertown, Wis., assignor to G. B. Lewis Company, Watertown, Wis., a Corporation of Wisconsin. Filed Dec. 7, 1929. Serial No. 412,433. 3 Claims. (Cl. 6—2.)



1. A device of the character described including a top bar and side pieces, the side pieces having their upper ends bifurcated to receive the top bar therein, and an abutment on the top bar adjacent each end and located medially of the adjacent side piece outer surface and the top bar end, said abutments being formed by reducing the outer end portions of the top bar.

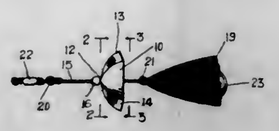
3. A device of the character described, including a top bar and side pieces, the top bar having recesses in its opposite sides of a width substantially equal to the thickness of the side pieces, and the adjacent ends of the side pieces being bifurcated and having spaced projections received within the recesses of the top bar, abutments formed on the top bar adjacent its ends and outwardly of the side pieces, said abutments providing means limiting endwise movement of the frame within a hive, means securing the top bar to the side piece, and said abutments being inclined downwardly and inwardly.

1,782,203. SCREEN. WILLIAM HANLEY, East Orange, N. J., assignor to Ferguson Brothers Manufacturing Company, Hoboken, N. J., a Corporation of New Jersey. Filed Dec. 2, 1929. Serial No. 411,078. 4 Claims. (Cl. 45—106.)



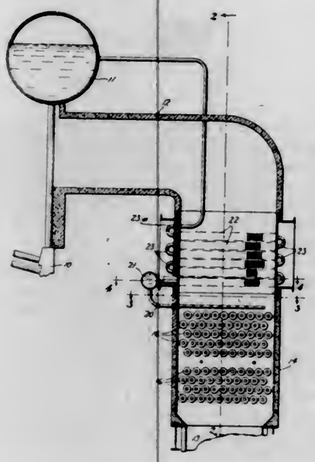
1. A screen comprising a panel of double-faced corrugated board, and a metal cross brace rigidly connecting the sides of the frame between its top and bottom, said cross brace being housed within the panel and the frame sides.

1,782,204. FISHING LURE. JOHN EDWARD JENSEN, Toronto, Ontario, Canada, assignor to The Allcock-Laight & Westwood Co., Toronto, Canada. Filed Oct. 10, 1929. Serial No. 398,632. 1 Claim. (Cl. 43—45.)



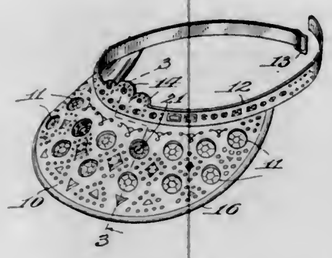
A fishing lure, comprising a draw wire terminating in a suitable tail, a spinner freely mounted on said wire intermediate of the length thereof between ball members and having a bell mouth facing said tail and spiral fixed fins projecting from the outer surface of said spinner and rotating it to produce air bubbles in the wake through which said tail trails.

1,782,205. ECONOMIZER. WALTER F. KEENAN, Jr., Pelham Manor, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 17, 1929. Serial No. 355,815. 13 Claims. (Cl. 257—220.)



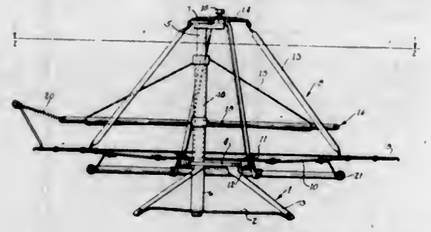
1. An economizer for heating boiler feed water by means of products of combustion comprising a flue having an oblong cross-section, a first group of tubes extending transversely of the flue in the direction of greater dimension, a second group of tubes extending transversely of the flue in the direction of lesser dimension, the cross-sectional area of flow of the second group being greater than the cross-sectional area of flow of the first group, and connections for passing fluid through the groups of tubes in series.

1,782,206. DECORATED VISOR. SAMUEL A. KORNSWEET, Venice, Calif. Filed Mar. 6, 1928. Serial No. 259,446. 2 Claims. (Cl. 2—12.)



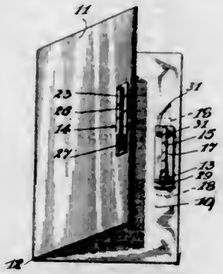
1. In a decorated visor, an eyeshade portion provided with openings, an inturned retaining lip on the lower edge of said eyeshade portion, a member detachably applied to the under face of said eyeshade portion and having its lower edge positioned behind said retaining lip, means for detachably connecting the upper edge of said member to the upper portion of said eyeshade portion, portions of which detachable member are visible through the openings in the eyeshade portion, and said detachable member being provided with relatively small sight openings that are adapted to register with certain of the openings in said eyeshade portion.

1,782,207. ROUNDABOUT. DELL J. LAHAY, Carney, Mich., assignor, by direct and mesne assignments, to Universal Playground Equipment Company, Menominee, Mich., a Corporation of Michigan. Filed Feb. 14, 1929. Serial No. 339,840. 5 Claims. (Cl. 272—33.)



1. A device of the kind described embodying therein a base, an annular member on said base, an upright member arranged eccentrically of said annular member, a seating means supported on said upright member for rotation concentric with respect to said annular member, means carried by said seating means for a guiding engagement with the periphery of said annular member and an actuating member rotative on said upright member but eccentric with respect to said seating member.

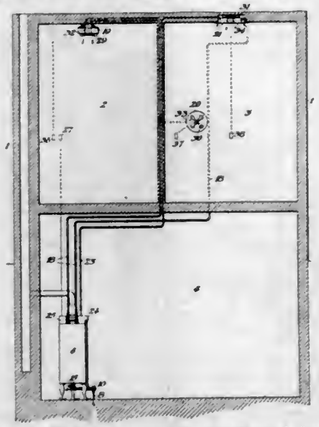
1,782,208. FASTENING DEVICE FOR POCKETBOOKS AND THE LIKE. HARRY LEBERMAN, New York, N. Y., assignor to Groove Lock Co. Inc., New York, N. Y., a Corporation of New York. Filed Jan. 22, 1929. Serial No. 334,336. 4 Claims. (Cl. 24—223.)



1. A fastening device for the purpose set forth comprising a rail having base portions and a head, a button slidable along the head of the rail, a securing plate provided with a guide slot and an opening, both being entirely through the plate transversely thereof and defined by edge walls which extend from the inner face of the plate to the outer face thereof, the head of the rail being insertable between the edge walls of the slot and opening so as to permit the inner face of the plate to rest upon the base portions, said button being insertable through the opening and constructed to have sliding contact between the head of the rail and the edge walls of the slot, and projections on the button adapted to slide in contact with the outer face of the plate when the inner face of the plate rests on said base portions.

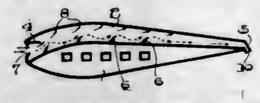
1,782,209. WATER HEATER. VICTOR MAUCK, Merion, Pa. Original application filed Sept. 13, 1926, Serial No. 134,964. Divided and this application filed May 5, 1927. Serial No. 189,090. 3 Claims. (Cl. 257—248.)

1. In a heating system, a heater unit of cellular structure, including a congeries of thin sheet metal flue tubes, having their opposite ends expanded to polygonal form, and fitted tightly together with their intermediate portions in spaced relation, affording space and passageways between said tubes for a fluid to be heated; a casing around said congeries, inclosing said space and passageways between said tubes; an inlet and an outlet in closely spaced relation, transversely to the axes of said tubes, and leading to and from said passageways; and a baffle plate, between said inlet and outlet, and extending in said pas-



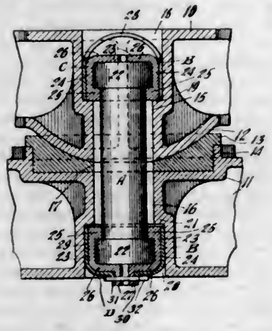
sageways, to the entire axial extent thereof, between adjoining tubes in said congeries; whereby the heated fluid is prevented from short-circuiting, from said inlet to said outlet, and compelled to tortuously traverse all of said passageways around said flue tubes, laterally, and transversely with respect to the axes of said tubes.

1,782,210. AEROPLANE. TOICHI NOSE, Kamakura Machi, Kanagawa Ken, Japan. Filed July 6, 1929, Serial No. 376,322, and in Japan Oct. 24, 1928. 1 Claim. (Cl. 244—12.)



An aeroplane provided with air compartments adapted to receive air current at their front ends and discharge it at their rear ends said air compartments being provided with deflectors for deflecting the passing air current and provided in their top walls with small perforations to assist the upward thrusting of the air current.

1,782,211. CAR CONSTRUCTION. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Jan. 6, 1930. Serial No. 418,799. 7 Claims. (Cl. 105—200.)



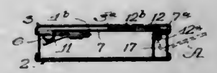
1. In car construction, the combination with body and truck bolsters having alined center pin receiving openings, each bolster having a head receiving pocket adjacent its opening, said pocket being of larger diameter than the corresponding opening, thereby providing an annular retaining shoulder at the inner end of the pocket; of a center pin member having a shank of smaller diameter than said center pin openings, said pin having cylindrical enlargements at opposite ends thereof, of not greater diameter than said pin receiving openings but of smaller diameter than said pockets, thereby providing annular retaining shoulders at opposite ends of said shank; and a plurality of locking blocks at each end of the pin providing sectional head members embracing the corresponding enlargements and each having an inwardly projecting annular sectional flange of a width corresponding to that of the annular shoulder of the corresponding enlargement, each set of blocks together defining a sectional head member of smaller diameter than the corresponding pocket and overlapping the annular retaining shoulder thereof, the combined width of said inwardly projecting flange and the overlap of said head with the retaining shoulder of the corresponding pocket being greater than the clearance between said head of the side wall of said pocket, said pin member being laterally displaceable in said pin receiving openings to permit insertion of the parts of the sectional heads within said head receiving pockets between the side walls of said pockets and the enlargements of the pin member.

1,782,212. KEYLESS LOCK. JOHN RECKER, Newark, N. J. Filed Jan. 23, 1928. Serial No. 248,594. 3 Claims. (Cl. 70—55.)



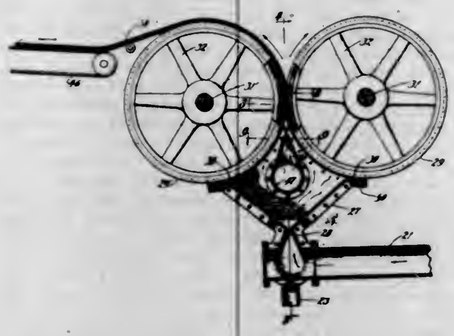
1. A keyless bag lock comprising a casing having two sections, one being fixed on the outer side and the other to the inner side of one of the bag frame sides, a catch carried by the mating frame side to enter the inner section, a spring actuated slide to normally retain the catch in said section, a plate slidable in the outer section directly connected with said slide to communicate motion thereto, means on the outer section to actuate said plate, and a pair of independently operable means when set in a predetermined position permitting movement of said plate and when in any other position preventing movement thereof.

1,782,213. COIN SAVINGS BANK. WALTER P. SCULLY, Chicago, Ill., assignor to G. Felsenthal & Sons, Chicago, Ill., a Firm composed of L. J. Felsenthal and I. G. Felsenthal. Filed Feb. 6, 1928. Serial No. 252,153. 5 Claims. (Cl. 232—4.)



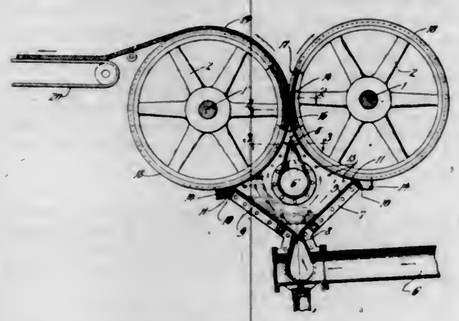
1. A coin savings bank comprising a body portion having an inwardly extending marginal flange about its open edge, a flanged cover member adapted to close the open side of said body and having an integral hook-shaped hinge member adjacent its periphery and projecting from its under side with its free end spaced therefrom, there being a slot in said flange adapted to receive said hinge member with its free end extended outwardly beyond one end of said slot, said flange being slit adjacent said opening to permit the material of said flange to be yieldingly depressed to effect the insertion of said hinge member into said opening, and a leaf spring mounted on said flange and bearing at its free end against said hinge member.

1,782,214. PROCESS AND APPARATUS FOR PRODUCING FELTED FIBROUS BOARD. EDWARD S. SHEPPERD, St. Joseph, Mo., assignor to Albert D. Stewart, St. Joseph, Mo. Filed Sept. 6, 1928. Serial No. 304,254. 9 Claims. (Cl. 92—39.)



1. A machine comprising in combination, forming cylinders geared together to rotate in unison, a forming chamber disposed below said forming cylinders substantially centrally of the bite between, and communicating with, said forming cylinders, a seal disposed adjacent the sides of the forming cylinder for preventing leakage past the sides of the forming cylinder and the forming chamber and separate inlets for supplying water and pulp to said forming chamber, one disposed adjacent the lower end thereof and the other disposed above said lower inlet.

1,782,215. APPARATUS FOR PRODUCING FELTED FIBROUS BOARD. EDWARD S. SHEPPERD, St. Joseph, Mo., assignor to Albert D. Stewart, St. Joseph, Mo. Filed Sept. 6, 1928. Serial No. 304,255. 6 Claims. (Cl. 92—39.)



1. An apparatus comprising in combination, forming cylinders geared together to rotate in unison, a forming chamber disposed below and in communication with said forming cylinders, means for introducing to said forming chamber pulp suspension under hydrostatic pressure, and means disposed on both sides of the forming cylinders for preventing leakage past the ends of the forming cylinders and the forming chamber, consisting of a stationary seal adapted to register with opposed grooves in said cylinders.

1,782,216. JOIST BEARING PLATE AND ANCHOR. JOHN G. SHODRON, Fort Atkinson, Wis., assignor to James Manufacturing Company, Fort Atkinson, Wis., a Corporation of Wisconsin. Filed Aug. 22, 1928. Serial No. 301,205. 5 Claims. (Cl. 72—108.)

2. The combination with load bearing tile provided with a plurality of longitudinally extending webs along the inner face of the tile and transversely extending webs, of a bearing plate spanning said longitudinally extending webs and certain of said transverse webs and adapted to distribute load therebetween, means carried by said

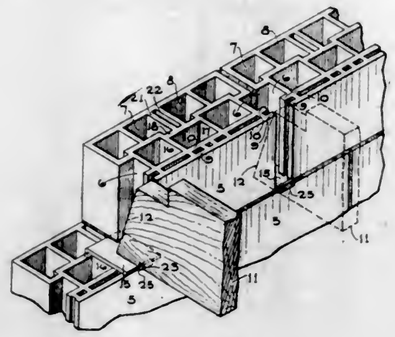
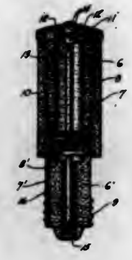


plate positioned for engagement with certain of the longitudinal and transverse webs of the tile on which said plate rests, a joist, and means for securing said joist against longitudinal displacement with reference to said plate.

1,782,217. PLAY PEN. BEATRICE M. STODDARD, Dedham, Mass., assignor to Dorothy Dewey Comstock, Dedham, Mass., doing business as The Kiddie-Rhester Co. Filed June 8, 1929. Serial No. 369,300. 2 Claims. (Cl. 5—99.)

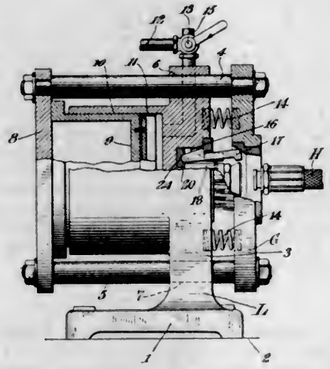
1. In combination with a portable pen comprising a plurality of thin, rectangular sections pivotally interconnected to form an upright, rectangular enclosure when erected and to fold into parallel juxtaposition when closed, a combined bottom mat and casing consisting of a sheet of flexible material having a substantially rectangular body portion shaped to underlie the bottom of the erected pen and to fold over the bottom, sides and top of the folded pen, and having a pair of oppositely disposed, substantially rectangular side wings, the wings being substantially as long and as wide as the respective ends of the closed pen to cover said ends when the sheet is used as a casing, the opposed margins of the body portion and wings of the casing overlapping each other completely to enclose the folded pen therewithin, cooperating fastener elements spaced along said margins for securing the casing about the folded pen, and fastener elements spaced along the bottom of the sections at the sides of the erected pen, cooperating with the fastener elements at the side margins of said body portion for attaching the sheet to the bottom of the erected pen.

1,782,218. INFRA-RED ELEMENT FOR THERAPEUTIC LAMPS AND HOLDERS. ERNEST SUTER and JULIUS NUETZI, Milwaukee, Wis. Filed Apr. 25, 1928. Serial No. 272,672. 1 Claim. (Cl. 174—177.)



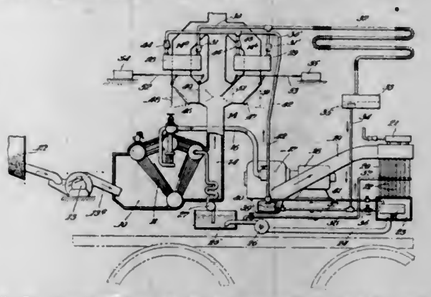
A therapeutic element, comprising an insulating core having a spiral groove, a coiled resistance wire extending into the groove, and a screen coating for said wire consisting of aloxide, neutral magnetic iron oxide black, silicon soda, and red phosphor zirconium oxide.

1,782,219. MACHINE FOR USE IN ASSEMBLING HOSE-COUPLING PARTS AND THE LIKE. ARCHIBALD L. WALLACE, Brooklyn, N. Y., assignor to Metal Hose & Tubing Co., Inc., Brooklyn, N. Y., a Corporation of New York. Filed Nov. 24, 1928. Serial No. 321,693. 4 Claims. (Cl. 29—88.2.)



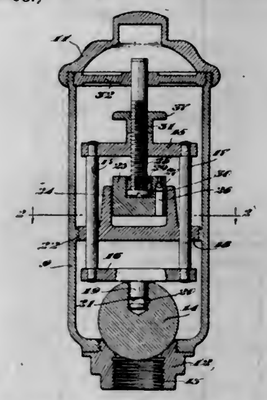
1. A machine for assembling coupling parts where one annular coupling part is intended to be connected to another by constriction of the diameter of the first coupling part, said machine comprising means to support the first coupling part, a plurality of presser members arranged side by side in position to surround said first coupling part movable toward a common centre for pressing against said coupling part to constrict its diameter, means by which said presser members are pivotally supported to swing toward and away from said common centre, resilient means urging said presser members away from said common centre, and a single ring shaped cam engaging all of said presser members for simultaneously moving them in opposition to said resilient means.

1,782,220. STEAM-GENERATING APPARATUS. ERNEST WANAMAKER and LAURENCE C. BOWES, Chicago, Ill., assignors, by direct and mesne assignments, to U. S. Oil & Service Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 25, 1929. Serial No. 349,737. 5 Claims. (Cl. 60—95.)



2. In combination, a steam generator, steam driven power means associated therewith, a condenser for condensing the exhaust steam of said power means, and a refrigerating apparatus activated by heat from said generator for augmenting the condensing action of said condenser.

1,782,221. FLUSH VALVE. HAROLD WESSON, Springfield, Mass., assignor to Smith and Wesson, Inc., Springfield, Mass., a Corporation of Massachusetts. Filed July 28, 1927. Serial No. 209,097. 10 Claims. (Cl. 137—93.)

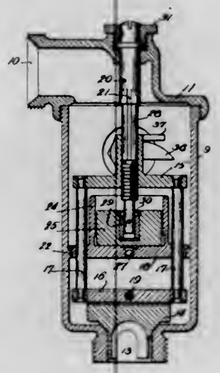


1. A valve comprising a casing having a fluid outlet at its bottom, a valve within the casing for closing the outlet, said valve being normally seated by pressure of the fluid within the casing, a carriage within the casing connected to the valve and movable therewith longitudinally of the casing, a rotatable shaft having a cam adapted upon rotation of the shaft to engage and lift the carriage to move the valve off its seat against said fluid pressure, manually controlled means for rotating said shaft, a dash pot consisting of a cylinder fixed transversely of the casing and a piston adjustably mounted in said carriage adapted to retard the seating of the valve, so that a predetermined volume of fluid is delivered through said outlet before the valve is seated.

1,782,222. FLUSH VALVE. HAROLD WESSON, Springfield, Mass., assignor to Smith and Wesson, Inc., Springfield, Mass., a Corporation of Massachusetts. Filed Apr. 22, 1929. Serial No. 356,947. 2 Claims. (Cl. 137—93.)

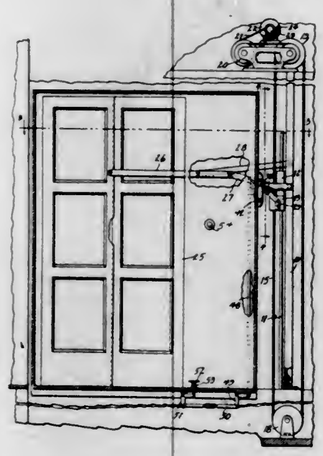
1. A flush valve comprising a casing having a valve seat at one end, a guide in the casing intermediate its ends, a

cylinder on the guide having an open end facing away from the valve seat, a carriage having rods sliding in the guide and cross-heads interconnecting the rods on opposite sides of the guide, a piston mounted on one cross-head to cooperate with said cylinder and a valve on the other cross-head to cooperate with said seat, a threaded stem for



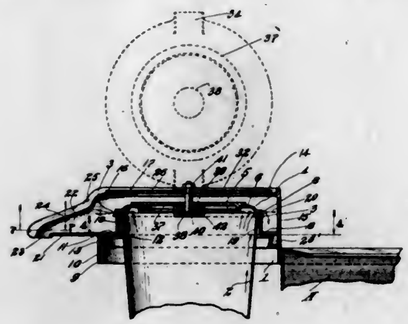
adjusting the piston longitudinally of the cylinder, and a sleeve journaled in the other end of the casing for rotating the threaded stem from outside the casing, said sleeve having sliding but non-rotating relation with the stem, so that the position of said piston may be adjusted without moving the sleeve longitudinally of the casing.

1,782,223. ELEVATOR-DOOR-OPERATING APPARATUS. GUY L. ALLEN, Dallas, Tex. Filed May 12, 1928. Serial No. 277,181. 15 Claims. (Cl. 187—52.)



14. In an elevator door operating apparatus, the combination with a horizontally slidable elevator door, of door operating means connected with said door, automatic door opening means connected with said door operating means and normally locked against operation when said door is closed, a door closing element normally disconnected from the opening means, means for releasing the door opening means to open the door and for causing said means to connect with the closing element, and means for actuating said door closing element to close the door.

1,782,224. LAUNDRY APPARATUS. ALPHEUS W. ALTORFER, Peoria, Ill., assignor to Altorfer Bros. Company, East Peoria, Ill., a Corporation of Illinois. Filed Mar. 4, 1927. Serial No. 172,644. 23 Claims. (Cl. 210—75.)



20. A revolvable housing for a centrifugal extractor, including a water receiving and conducting chamber having a radially arranged conduit and discharge opening therefor and a transfer shelf partitioned from said conduit.

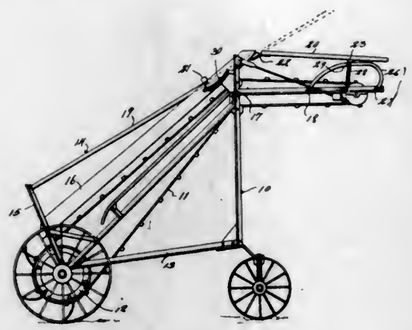
1,782,225. RECOVERY OF SULPHUR FROM PYRITES. RAYMOND F. BACON, Bronxville, N. Y. Filed Apr. 6, 1927. Serial No. 181,359. 1 Claim. (Cl. 23—227.)

The method of recovering sulphur from iron pyrites which comprises heating the iron pyrites to a temperature of about 600° C. and not in excess of 700° C. in a rotary retort, subjecting the said heated pyrites while still in the said retort to the action of steam at a temperature of about 600° C. and not in excess of 700° C., thereby forming a gaseous product containing elemental sulphur and hydrogen sulphide together with an excess of steam, treating said hot gaseous product with sulphur dioxide at a temperature of about 600° C. and not in excess of 700° C., thereby producing additional elemental sulphur through the reaction of sulphur dioxide with hydrogen sulphide, subjecting the so treated gaseous product to a condensation operation in which the elemental sulphur is in large part condensed without substantial condensation of the steam, reheating the exhaust gases of the condensation operation by heat derived from the hot gases leaving the retort, raising the said exhaust gases to a temperature of about 600° C. and not in excess of 700° C. by means of the excess heat from the retort heating device, and reintroducing the reheating gases into the retort for further reaction with iron pyrites.

1,782,226. RECOVERY OF SULPHUR FROM IRON PYRITES. RAYMOND F. BACON, Bronxville, N. Y. Filed Apr. 13, 1927. Serial No. 183,436. 5 Claims. (Cl. 23—226.)

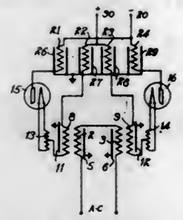
1. The method of recovering sulphur from iron pyrites which consists in effecting a partial elimination of the sulphur from iron pyrites by subjecting the pyrites to the action of steam at an elevated temperature and thereby forming a gaseous product containing elemental sulphur and hydrogen sulfide effecting a further removal of sulphur from the residual iron sulfide remaining after such a partial elimination of sulphur from iron pyrites by subjecting the residual iron sulfide to oxidation at an elevated temperature and thereby forming a gaseous product containing sulphur dioxide, and subjecting the gaseous products resulting from the foregoing operations to a condensation operation in the course of which the hydrogen sulfide and sulphur dioxide react and form elemental sulphur and a large part of all the elemental sulphur present is condensed.

1,782,227. HAY LOADER. VICTOR BAL, Hyannis, Nebr. Filed Jan. 4, 1930. Serial No. 418,570. 3 Claims. (Cl. 198—160.)



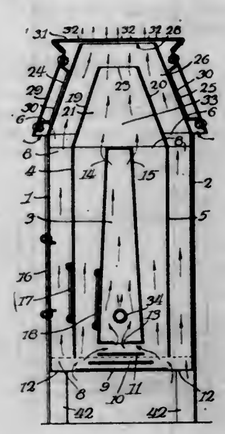
1. In combination with a hay loader, retaining means for retaining the hay on the loader, said retaining means comprising upper and lower retaining members hingedly secured to each other, yieldable means mounted on the loader and engaging said retaining member at the opposite sides thereof whereby to hold said retaining members in contact with the hay and coactively prevent the hay from being blown away during the loading operation, a pair of U-shaped supporting members secured to said loader and adapted to engage the opposite side portions of said upper retaining member whereby to maintain said upper retaining member in spaced relation to the loader.

1,782,228. CURRENT-RECTIFYING APPARATUS. CHARLES B. BARTLEY and VIRGIL H. DAKE, Pittsburgh, Pa. Filed Nov. 14, 1928. Serial No. 319,276. 6 Claims. (Cl. 175—363.)



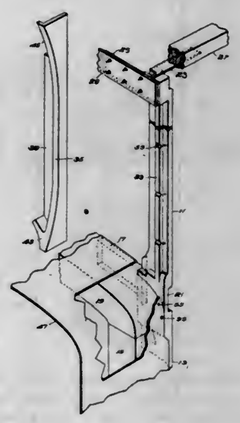
4. An alternating current rectifying device, comprising a current transformer having a plurality of sections of electrostatically shielded primary and secondary windings, a plurality of electron discharge valves for rectifying the current passing through the transformer, one valve being provided for each section of said secondary winding, a plurality of auxiliary transformer secondary windings for energizing said electron discharge valve, and a plurality of reactance coils for damping out fluctuations in the direct current provided by the rectifier; said valves, said transformer secondary windings, said auxiliary secondary windings and said reactance coils being connected in a plurality of parallel circuits each of which circuits extends from a negative terminal of the rectifier through one of said reactance coils, one of said valves, one of said auxiliary secondary transformer windings, one section of said transformer secondary windings and a second reactance coil to a positive terminal on the rectifier.

1,782,229. SPACE HEATER. ALOYSIUS W. BECKER, Chicago, Ill., assignor to Econoheet Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 17, 1928. Serial No. 326,604. 9 Claims. (Cl. 126—90.)



1. In a space heater, the combination, of an upright central heating flue having a bottom inlet opening and upper outlet openings, walls spaced from the walls of the flue to provide an air heating space all around said flue, and outer walls spaced from said first mentioned walls, forming a second air heating space all around said first mentioned walls, a heating element in said flue, and commingling means forming the top portion of the heater, said commingling means receiving and commingling the heated air discharged upwardly from the flue and the upper ends of the first and second heating spaces, provided with discharge means to discharge the commingled and heated air from the top portion of the heater.

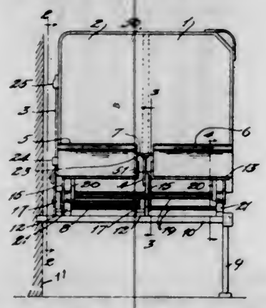
1,782,230. AUTOMOBILE BODY AND METHOD OF CONSTRUCTING A BODY. RAYMOND CALPIN, Everett, Mass., assignor to A. S. Campbell Company, East Boston, Mass., a Corporation of Massachusetts. Filed Sept. 17, 1928. Serial No. 306,463. 16 Claims. (Cl. 296—28.)



1. The method of constructing automobile bodies which comprises constructing the body frame including top supporting body pillars arising adjacent the cowl and having

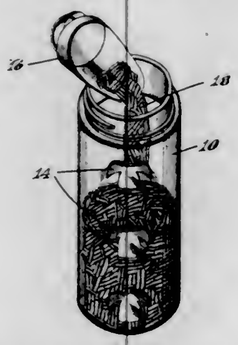
the roof hung and permanently secured thereto, securing in position a cowl panel with edges presented adjacent the front of said pillars and then assembling with the pillars by a movement of approach in substantially a horizontal plane contour-completing sections having base portions to overlie said panel adjacent the pillars and mechanically securing such sections to the pillars.

1,782,231. SEAT. JAMES WILLIAM CROSS, Finsbury Pavement, London, and ERIC ELDRIDGE JOHNSON, Tottenham, London, England. Filed Dec. 13, 1929, Serial No. 413,839, and in Great Britain Dec. 10, 1928. 6 Claims. (Cl. 155—101.)



1. A reversible double car seat including a main frame supported at the car wall and in spaced relation thereto, a pair of spaced inner and outer seat bottoms supported on said frame, the inner of said seat bottoms having a side adjacent but spaced from the car wall, a seat back frame support between the wall and adjacent seat bottom, a second seat back frame support between said seat bottom, said supports being mounted for swinging movement transversely of the seat on said main frame; and a seat back frame supported on said supports and having a portion overhanging the full width of the outer seat bottom and free from connection with the outer seat bottom and main frame.

1,782,232. ORNAMENTAL FOOD PACKAGE AND METHOD OF MAKING THE SAME. ALBERT GRANDE, Boston, Mass., assignor to Beau Ideal Food Co., Boston, Mass., a Corporation of Massachusetts. Filed Oct. 10, 1929. Serial No. 398,792. 4 Claims. (Cl. 226—1.)



1. The method of making an ornamental food package which consists in preliminarily arranging in a complete pattern upon the inner curved walls of a transparent jar a plurality of food stuff units, and then filling the jar with a food stuff of contrasting color without disturbing the previously established pattern of the units on the walls of the jar.

1,782,233. LIQUID-LEVEL INDICATOR. THOMAS M. EYNON, Philadelphia, Pa. Filed Feb. 25, 1924. Serial No. 695,007. 1 Claim. (Cl. 73—54.)



In a device of the character stated, a tank adapted to contain a liquid, a pair of open ended tubes of unequal internal volumetric capacity positioned within said tank, a pair of identical U-shaped indicating members having the upper ends of the rear arms thereof closed and the upper ends of the front limbs thereof open, and having indicating fluids in the lower portions thereof, and a corresponding pair of pipes of unequal diameters leading from the upper ends of said tubes to the respective upper closed ends of the rear limbs of said U-shaped indicating members.

1,782,234. METHOD OF WELDING AND THE RESULTANT PRODUCT. OTTO U. HOFMANN, Philadelphia, Pa. Filed Dec. 31, 1928. Serial No. 329,411. 3 Claims. (Cl. 113—112.)

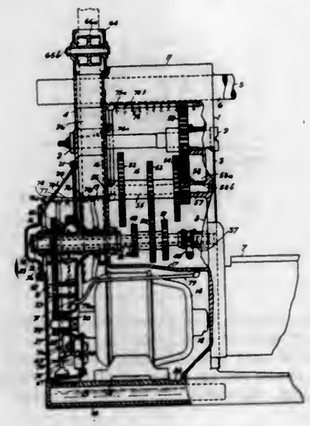


1. The herein described press plate for a steam buck comprising a flat press plate, a flat back plate having its marginal wall deflected beyond its outer wall and welded to the rear wall of said press plate, said back plate having depressions with openings in the bottoms of the depressions, and welding material filling the bottoms of said openings to form a steam tight union of the juxtaposed walls of said depressions and the rear wall of said press plate.

1,782,235. MACHINE-TOOL ORGANIZATION. EDWARD J. KEARNEY, Wauwatosa, and JOSEPH B. ARMITAGE, Milwaukee, Wis., assignors to Kearney & Trecker Corporation, West Allis, Wis., a Corporation of Wisconsin. Filed Jan. 20, 1926. Serial No. 82,544. 2 Claims. (Cl. 90—11.)

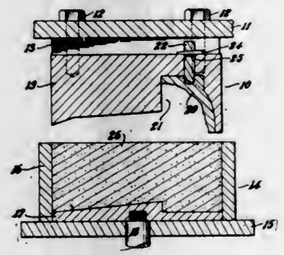
1. In a machine tool the combination of a plurality of transmission chambers separated by a ventilating passageway and a motor chamber substantially underneath one of said transmission chambers and connected with said passageway, a speed change transmission mechanism

in one of said transmission chambers, gearing in the other of said transmission chambers, and transmission mecha-



nism connecting said gearing to drive said speed change transmission including a shaft passing through said passageway.

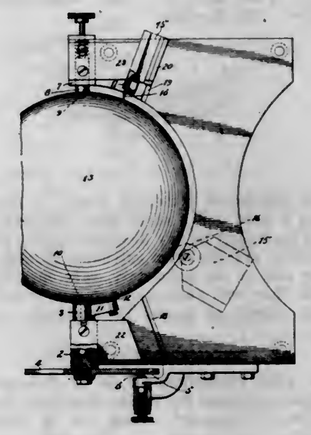
1,782,236. CLAY-MOLDING DIE. ANDREW P. KELLER, Tiffin, Ohio. Filed July 25, 1929. Serial No. 380,877. 5 Claims. (Cl. 25—27.)



1. A clay-pressing die comprising members movable toward each other to mold the plastic material between them, one of said members having a removable portion adapted to be left on the molded piece when the remainder of said member is retracted, and detachable from said piece transversely of the direction of molding pressure.

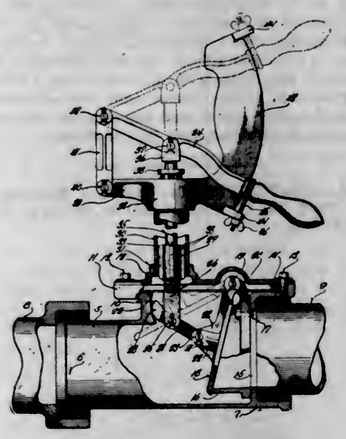
1,782,237. CUTTING MACHINE FOR GLOBE CONSTRUCTION. PETER J. KING, Detroit, Mich., assignor to C. S. Hammond & Company, Inc., Brooklyn, N. Y. Filed Dec. 13, 1929. Serial No. 413,802. 4 Claims. (Cl. 164—63.)

4. In a cutting apparatus for trimming gore sections mounted on a geographical globe comprising a globe support for holding a globe on its pole axis, means to permit said globe to be freely turned for one operation, means to hold said globe at certain predetermined positions against being turned for another operation, a movable cutter, and means for supporting and guiding said cutter in the direction to trim a gore on a globe along a meridian line while the globe is stationary and also to support said



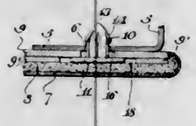
cutter in another position to trim the ends of all the gore sections on a line equidistant at all points from a pole end of said globe while the latter is being revolved.

1,782,238. VALVE. ROBERT O. KIRCHHAN, Milwaukee, Wis. Filed Mar. 9, 1928. Serial No. 260,310. 4 Claims. (Cl. 251—17.)



1. In a drain valve including a body member having an inlet and an outlet, a valve within the body member and adapted to either communicate or disconnect the inlet from the outlet, a link extended from the valve and having one end abutting an iner wall of the body member when the valve is in closed position, a cover member carried by the body member, a tube extended from the cover member, an operating rod positioned within the tube, means connecting one end of the rod with the link, said means forming a guide for the rod to maintain the same properly spaced from the walls of the tube, and means connected with the free end of the rod for actuating the rod to either of its positions.

1,782,239. MEANS FOR ATTACHING UPHOLSTERY IN AUTOMOBILE BODIES. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 30, 1924. Serial No. 740,795. 20 Claims. (Cl. 45—138.)



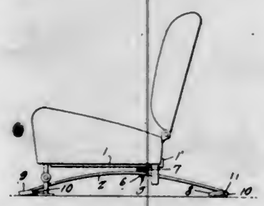
1. In an upholstery attaching means, a fastening device having a head and a stem, said head being disposed for lateral movement in any direction within the body of the upholstery, and the stem extending through an opening in one side of the upholstery, said opening being of greater size than said stem, and a frame or panel having an opening therein to receive the projecting end of the stem.

1,782,240. BAG CLOSURE. ISAAC W. LITCHFIELD, Boston, Mass., assignors to Bemis Bro. Bag Company, a Corporation of Missouri. Filed Jan. 5, 1928. Serial No. 244,601. 13 Claims. (Cl. 229—62.)



1. A bag closure formed by a fold of one end of the bag upon itself to one side of the bag, fastenings securing said end in its closed and folded condition, the folded-over portion of the bag being extended on the bag side of the fastening line a sufficient distance beyond a line of flexure in the other side of the bag adjacent to the fastening line to constitute with said fastenings a lever tending to rock said closure about said line of flexure and means on the other side of said bag adjacent the fastening line adapted to establish said line of flexure.

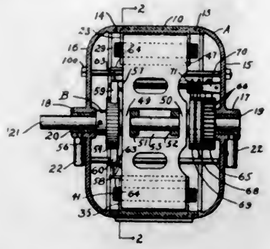
1,782,241. SEAT SUPPORT. LESTER B. MARVIN, Pueblo, Colo. Filed Feb. 18, 1929. Serial No. 340,814. 5 Claims. (Cl. 155—55.)



5. In combination with a pivoted seat, a bar engaging the under side of the seat, a spring swivelly secured intermediate its ends to the bar and having portions which are adapted to serve as legs for the seat and means for adjusting the spring at its point of connection with the bar toward and away from said bar.

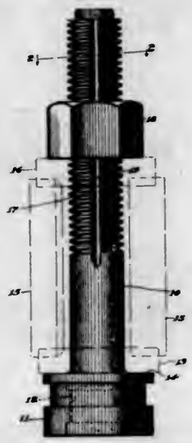
1,782,242. ELECTRIC MOTOR. BERNARD L. MCNERNEY, Minneapolis, Minn. Filed July 30, 1928. Serial No. 296,274. 5 Claims. (Cl. 172—126.)

1. An electric motor comprising a stator, a shaft journaled in said stator, a series of electromagnets mounted within said stator, a second series of electromagnets spaced from said first series of electromagnets, plate-like members mounted for oscillation upon said shaft and adapted to move between the corresponding magnets of the two series of magnets, a commutator on said shaft connect-



ed to said magnets for alternately energizing adjoining magnets of each of said series of magnets to cause the oscillation of said plate-like members between said magnets, and means for effecting rotational movement of said shaft through the oscillation of said members.

1,782,243. CUTTER SPINDLE. FRANK S. MCQUESTON, Winchendon, Mass., assignor to Baxter D. Whitney & Son, Inc., Winchendon, Mass., a Corporation of Massachusetts. Filed Aug. 29, 1929. Serial No. 389,132. 1 Claim. (Cl. 144—231.)

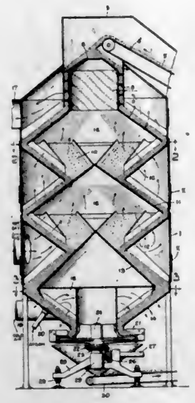


A wood shaper spindle constructed to prevent dirt and dust from accumulating between the cooperating threads of the spindle and nut, comprising, a threaded spindle portion adapted to receive a cutter, and a nut for clamping the cutter upon the spindle, the threaded portion of the spindle being provided with a clearance slot formed longitudinally of the spindle to receive the compressed dirt and dust from between the cooperating threads and constructed so that its side walls converge towards the bottom of the slot.

1,782,244. BRIQUETTE OVEN. THEODORE NAGEL, Brooklyn, N. Y. Filed Jan. 3, 1927. Serial No. 158,789. 14 Claims. (Cl. 34—34.)

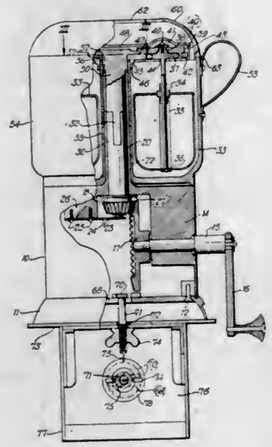
13. A continuous oven comprising a vertically arranged cylindrical shell having a restricted entrance neck com-

prising spaced apart walls concentric with the vertical axis of the shell, a spiral chute in said neck for feeding



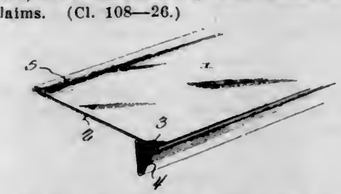
material through the neck to the body of the oven, and means within the oven to continuously feed material therethru.

1,782,245. INTERCHANGEABLE APPLIANCE FOR MIXING, BEATING, ETC. FREDERIC W. PARKHILL, Kansas City, Mo. Filed Oct. 1, 1929. Serial No. 396,487. 11 Claims. (Cl. 259—102.)



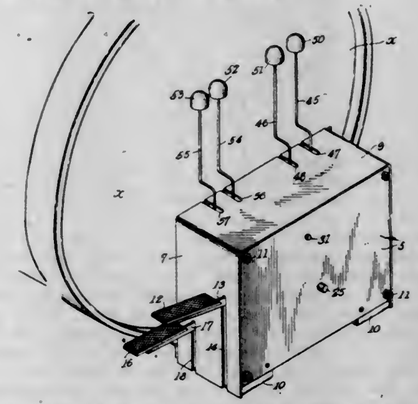
1. A device of the character described comprising a body member, driving means mounted in said member and including an upwardly projecting shaft, a receptacle on the top of said member and having a sleeve or housing enclosing such shaft, and a material treating device mounted in said receptacle with journal bearing support on the top of said sleeve and provided with a detachable drive connection with said shaft.

1,782,246. FLASHING. MICHAEL J. N. SCHNEIDER, Winter Haven, Fla., assignor to Walter G. Meyer, Milwaukee, Wis. Filed Feb. 14, 1930. Serial No. 428,344. 9 Claims. (Cl. 108—26.)



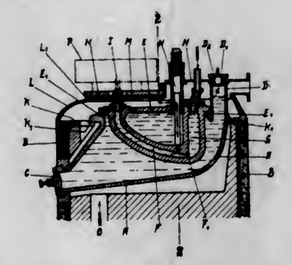
1. A flashing composed of sheet metal sections, each having a top plate provided with a protruding flange at its forward edge and a longitudinal hook positioned below said flange for abutting engagement with the face of a wall or partition, and a counterflashing engaged in said longitudinal hook.

1,782,247. AUTOMATIC DRUM PLAYER. JOHN VERRECCHIA, Newark, N. J. Filed Oct. 24, 1927. Serial No. 228,168. 4 Claims. (Cl. 84—422.)



1. A drum beater comprising a pair of beater hammers adapted to strike a drum, a single pedally actuated lever to impart motion to said hammers, intermediate gear means for causing the hammers to strike alternately, and resilient means for imparting the stroke of the hammers.

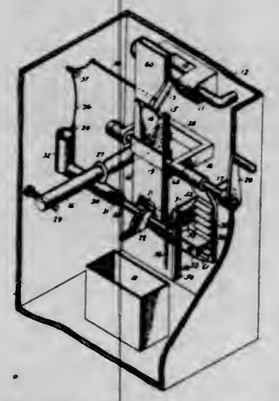
1,782,248. PRESSURE DIE-CASTING APPLIANCE. KARL FRIEDRICH WAGNER, Feuerbach, near Stuttgart, Germany, assignor to Elektronmetall G. m. b. H., Cannstatt-Stuttgart, Germany. Filed Feb. 17, 1928, Serial No. 255,093, and in Germany Feb. 19, 1927. 7 Claims. (Cl. 22—69.)



1. In a pressure die-casting apparatus a melting and charging device comprising, in combination, a closed crucible serving as a metal container, a feeding shaft extending upwards from said crucible, a substantially U-shaped casting vessel suspended by and within said

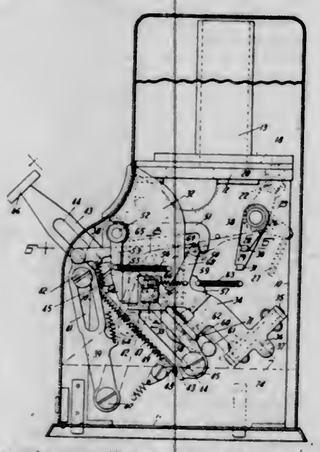
crucible, means for introducing a fluid under pressure into one end of said casting vessel, a nozzle for discharging molten metal from the opposite end of said casting vessel and a valve connecting the interior of said casting vessel with the interior of said crucible.

1,782,249. MECHANISM FOR RECEIVING AND WEIGHING COINS. MAX WOLNIK, Brooklyn, N. Y. Filed July 19, 1929. Serial No. 379,365. 20 Claims. (Cl. 194—103.)



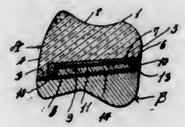
1. The combination with a coin chute pivoted at a point intermediate the ends thereof, open at both ends thereof for the passage of coins and slotted at said ends to expose parts of said coins, of a member of a vending mechanism arranged in the path of the uppermost coin in said chute and adapted to be operated by said member on the swinging of said chute, a lever near the bottom of said chute, a coin supporting member on said lever arranged across the lower slot of said chute, means for swinging said chute for operating said vending machine member, and a flexible member connected to said vending machine member and to said lever for swinging said lever after said vending machine member has been operated whereby the coins are discharged from said chute.

1,782,250. COIN-CONTROLLED APPARATUS. ABRAM L. ZENT, Dayton, Ohio. Filed Jan. 7, 1929. Serial No. 330,732. 17 Claims. (Cl. 194—88.)



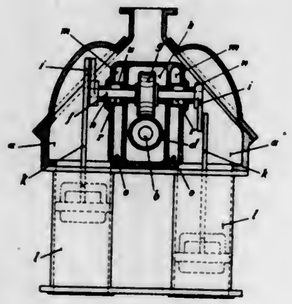
1. In a coin controlled apparatus having a plurality of parts to be operated, an actuating member to actuate a selected one of said parts to be actuated, a coin controlled device to position said actuating member in operative relation to one of said parts to be operated, and means for imparting operative movement to said actuating member.

1,782,251. BICUSPID AND MOLAR BRIDGE TEETH. ROBERT W. BECK, Lewiston, Idaho. Filed Feb. 9, 1928. Serial No. 253,084. 2 Claims. (Cl. 32—9.)



1. A tooth comprising a pontic, a metal occlusal block, one of said parts being provided with two grooves, a U-shaped anchor carried by the other of said parts, said anchor being located and cemented in one of the grooves, the last mentioned part also being provided with a crimped cross member, and said crimped cross member being located and cemented in the other of said grooves.

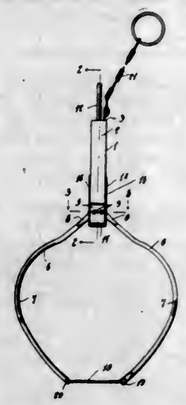
1,782,252. LIQUID PUMP. HEINRICH BEYER, Flensburg, Germany. Filed Dec. 20, 1928. Serial No. 327,240. 2 Claims. (Cl. 103—183.)



1. A power driven piston pump, comprising in combination with two parallel cylinders, a housing on said cylinders, a driving shaft journaled in said housing and having a worm portion, a piston in each cylinder, a transverse shaft in said housing above said driving shaft, a worm wheel keyed on said transverse shaft, a crank on each end of said transverse shaft, a connecting rod connecting each crank with its piston, a casing in said housing enclosing said worm gear mechanism and the corresponding portions of said shafts, and a separate chamber at each side of said casing designed to prevent the entrance of liquid under pressure from said pressure chamber into said casing.

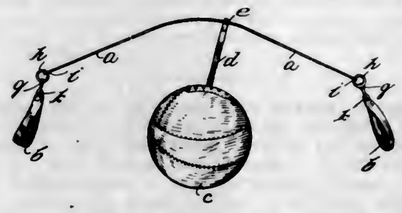
1,782,253. ANIMAL TRAP. BENJAMIN W. BOOTH, Ketchikan, Alaska. Filed Aug. 21, 1929. Serial No. 387,450. 2 Claims. (Cl. 43—89.)

1. In a trap, a body member having its opposite sides open, jaws pivotally secured to said body member, a plunger slidably mounted in said body member, said plunger having portions extending through the openings in the body member and provided with slotted openings engaging said jaws, spring means normally urging said plunger



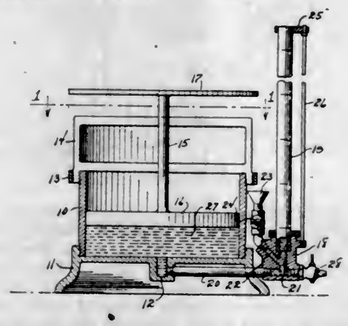
to close said jaws, and means pivotally engaging one of said jaws and releasably engageable with the other jaw to hold the jaws distended.

1,782,254. GAME. MAX BREIDENBACH, Mainz, Germany. Filed May 20, 1929, Serial No. 364,547, and in Germany Oct. 1, 1928. 5 Claims. (Cl. 273—1.)



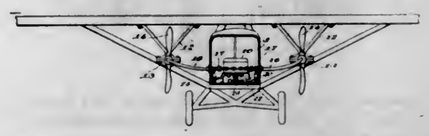
1. An apparatus for a ball game comprising a single elastic support, a ball carried by the support, and handles at each end of the support whereby the elastic is extended or allowed to retract by a force at the handles.

1,782,255. HYDRAULIC SCALE. GEORGE WASHINGTON CALVERT, Rushville, Mo. Filed Sept. 20, 1929. Serial No. 394,001. 2 Claims. (Cl. 265—47.)



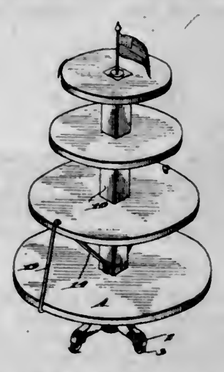
1. In a hydraulic scale, a body including a lower cylindrical portion closed at one end adapted to be partly filled with water, and an upper portion comprising two semi-cylindrical sections, a ring holding said sections together and associated with said cylindrical portion of the body, a piston operating in said body, a piston rod, a scale platform supported by the piston rod, the upper sections of the body constituting bearings for said piston rod, a casting arranged at one side of the body portion and having a bore therethrough, a pipe establishing communication between the casting and said cylindrical body portion, means for filling the body portion through said casting, and a graduated tube supported by the casting and communicating with said body portion.

1,782,256. AEROPLANE. FEDERICO GUILLERMO DIAGO, Habana, Cuba. Filed July 20, 1929. Serial No. 379,829. 3 Claims. (Cl. 244—25.)



2. The combination with an aeroplane having a straight line motor, clutch members fixed to the ends of the power shaft of the motor, cooperating clutch members slidable on the ends of the power shaft, a propeller mounted on the aeroplane at each side of the engine, an operative connection between each propeller and one of the slidable clutch members, parallel rack bars operatively connected with each of the slidable clutch members, a manually operable rotatable shaft mounted in the aeroplane, and a pinion on the shaft and engaging the rack bars and operable to shift the movable clutch members to operative and inoperative position.

1,782,257. REVOLVING DISPLAY STAND. CHARLES DUMLER, Canton, Okla. Filed Oct. 30, 1928. Serial No. 316,023. 2 Claims. (Cl. 211—131.)

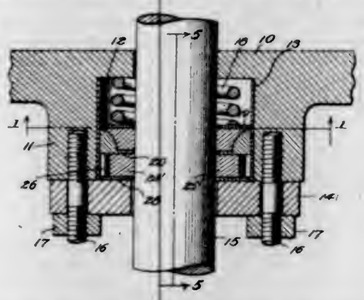


1. In a revolving display stand, a hollow pedestal, a platform mounted on the upper end of said pedestal and having an opening registering with the bore of the pedestal, a spindle mounted in said pedestal and projecting above it, a hollow post loosely mounted to rotate on said spindle and detachably engaged with said platform to rotate therewith, said post having a plurality of longitudinally spaced collars to receive and support a plurality of shelves.

1,782,258. PACKING FOR PISTON RODS AND VALVE STEMS. SAMUEL E. DUNHAM, Augusta, Ga. Filed Nov. 24, 1928. Serial No. 321,723. 1 Claim. (Cl. 286—22.)

In a device of the class described, a packing ring comprising a plurality of segmental sections each having a flat edge portion, resilient means bearing on the outer edges of the sections, a disk adjacent to which the sections are

mounted, said disk and sections being adapted to surround a rod, and lugs carried by the disk and positioned at points opposite each other, for engaging the edge portions of



the sections, said lugs forming elongated lips remote from the center and constituting chord reinforcements of the edge portions of the disk.

1,782,259. LIGHT-SENSITIVE LAYER AND PROCESS OF MAKING PHOTOGRAPHIC IMAGES. JOHN EGGERT, Leipzig, and RICHARD SCHMIDT and BRUNO WENDT, Dessau-in-Anhalt, Germany, assignors to Agfa Ansco Corporation, Binghamton, N. Y., a Corporation of New York. Filed July 12, 1929, Serial No. 377,911, and in Germany July 17, 1928. 19 Claims. (Cl. 95—6.)

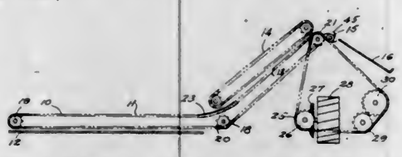
1. A light-sensitive layer containing an ethylene derivative forming cis-trans-isomerides.

1,782,260. REMOVALBE RADIATING DEVICE FOR THE COOLING OF SPARK PLUGS. JEAN FRANQUET, Chatillon-Sous-Bagneux, and NICOLAS DZIACOS, Paris, France. Filed June 10, 1929, Serial No. 369,801, and in Luxemburg June 16, 1928. 4 Claims. (Cl. 257—263.)



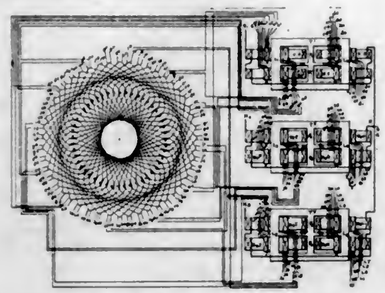
1. A radiator for spark plugs comprising two sections hinged together, each section including a semicircular band having a series of vertically disposed spaced apart flanges which extend above and below the band, and means for securing the ends of the sections together.

1,782,261. HARVESTING MACHINE. ERIK FRIIS-HANSEN, Fort Saskatchewan, Alberta, Canada. Filed Sept. 5, 1928. Serial No. 303,987. 6 Claims. (Cl. 56—185.)



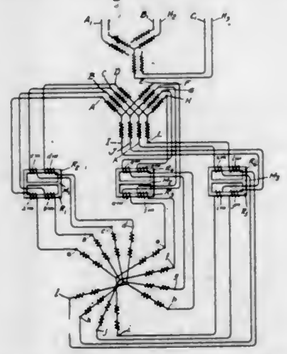
1. In a harvesting machine, a frame including side members, each of which consists of two legs disposed angularly with respect to each other, a transverse shaft at each end of the frame, a third transverse shaft mounted in the frame at the point of juncture of the legs, a curved guide rail on the inner side of each side member at the point of juncture of the legs, a sprocket wheel at each end of said shafts, an endless chain at each side of said frame, each of the chains comprising a plurality of links some of which have projections thereon, said chains operating over said sprocket wheels and being guided by said guide rails, and an endless conveyor belt secured to the projections on the links of the chains and adapted to travel in a path conforming to the shape of the frame.

1,782,262. MEANS AND METHOD OF CONNECTING ELECTRICAL MACHINES WITH TRANSFORMER BANKS. FRAZER W. GAY, Newark, N. J., assignor to General Electric Company, a Corporation of New York. Filed June 3, 1927, Serial No. 196,218. Renewed April 7, 1930. 7 Claims. (Cl. 172—237.)



1. A multipole electrical machine having uniformly distributed alternating current windings comprising a predetermined number of coils per pole, in which every coil under one pole is segregated within said machine from every other similarly located coil under every other pole, and interconnecting means in segregated relation external of said machine coil circuits for interconnecting said coils in groups having generated voltages of the same time phase.

1,782,263. MEANS AND METHOD OF CONNECTING ELECTRICAL MACHINES WITH TRANSFORMER BANKS BY PHASE CHANGING AND VOLTAGE CHANGING. FRAZER W. GAY, Newark, N. J., assignor to General Electric Company, a Corporation of New York. Filed Feb. 15, 1928, Serial No. 254,560. Renewed June 18, 1930. 15 Claims. (Cl. 172—237.)

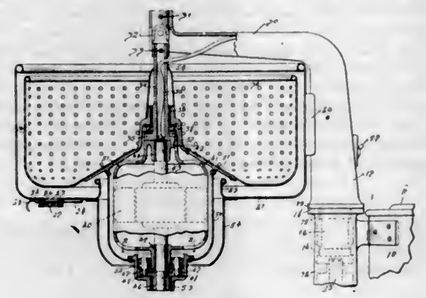


1. In combination, a multiple electrical machine having a multiplicity of separately insulated three phase windings each differing from the others in the time phase of its generated E. M. F., a three phase transformer bank having as many separately insulated three phase primaries as there are separately insulated three phase machine windings, and phase changing means for bringing to a common time phase the E. M. F. of predetermined generator windings which are connected to predetermined three phase primary windings.

2. In combination, a multipole electrical machine having a multiplicity of separately insulated three phase windings each differing from the others in the time phase of its generated E. M. F., a three phase transformer bank having separately insulated three phase primary windings mounted on magnetic cores so that in any phase a magnetic core has a winding thereon connected to a plurality of machine windings of the same generated time phase, and phase changing means for bringing to a common time phase the voltage of said plurality of generator windings of different generated time phase which are connected to the smaller number of said transformer primary windings.

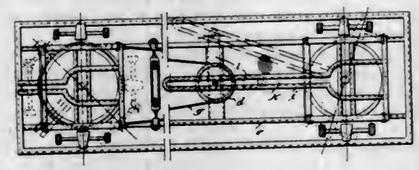
6. In combination, a multipole electrical machine having a multiplicity of separately insulated three-phase windings each differing from the other in the time phase of its generated E. M. F., a three-phase power circuit connected to be energized from said machine windings, two of said machine windings having E. M. F.'s slightly lagging and slightly leading the E. M. F. of said power circuits respectively, and three-phase transformer time phase changing means having two equal turn coils per phase mounted on a common magnetic leg, one of said coils being connected in the corresponding phase of each of said two machine windings in such a manner that equal power currents fed by said machine phase windings to their connected power phase will produce M. M. F.'s in said phase changing coils equal and opposite.

1,782,264. CENTRIFUGAL DRIER. LEE B. GREEN, Lakewood, Ohio, assignor to The Borden Company, Warren, Ohio, a Corporation of Ohio. Filed Nov. 16, 1928. Serial No. 319,929. 7 Claims. (Cl. 210—72.)



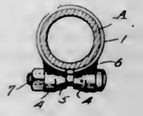
1. In a centrifugal clothes drier, a support, a non-rotatable hanger carried thereby, said hanger comprising a flexible joint, a drier basket rotatably suspended upon said hanger, a motor casing secured to said hanger below said basket, said motor having a vertical rotor with a shaft extending downwardly through said casing, and a driving connection extending from the lower end of said shaft upwardly around said motor casing and attached to said basket.

1,782,265. STEERING MECHANISM FOR VEHICLES. OTTO HAASE, Dresden-Altstadt, Germany. Filed Nov. 28, 1927, Serial No. 236,270, and in Germany Nov. 29, 1926. 1 Claim. (Cl. 280—100.)



In a steering mechanism for vehicles, a front bogie, a pulley firmly secured thereto, a rear bogie, a second pulley which is smaller than the said first pulley mounted in front of the rear bogie, a rope transmitting the movement of the said first pulley to the said smaller pulley, an arm mounted on the said smaller pulley, a flat iron bar mounted on the rear bogie, a longitudinal slot in the said bar, and a bolt on the said arm engaging in the said slot, the arrangement being such that the movement of the said smaller pulley is transmitted in positive fashion to the rear bogie.

1,782,266. CLAMP AND METHOD OF MAKING THE SAME. JOHN WALLACE HARDING, Wheeling, W. Va. Filed Nov. 8, 1929. Serial No. 405,727. 1 Claim. (Cl. 24—19.)

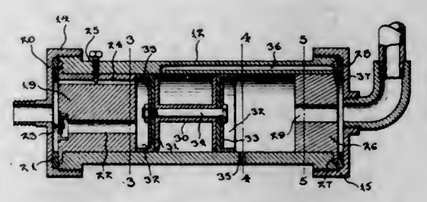


The herein described method of producing metal clamps which consists in slotting the ends of a metal band and bending the band to bring the ends adjacent to each other, thereafter applying to the slotted portions of the band a tubular member bridging the space between the ends of the band, subsequently joining the tubular member to the ends of the band by fusing, and finally dividing the tubular member at its center to form alining eyes.

1,782,267. REMOVING COLOR FROM ROSIN. WILLIAM BURNS LOGAN, De Quincy, La., assignor, by mesne assignments, to The Newport Company, a Corporation of Delaware. Filed Aug. 2, 1928. Serial No. 297,110. 11 Claims. (Cl. 87—2.)

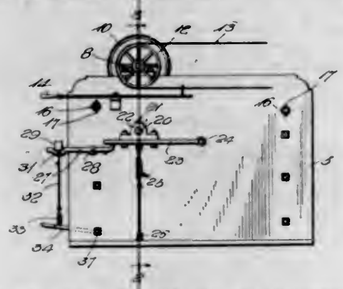
1. A process of improving the color of rosin which comprises the herein described steps of treating a solution of rosin with a light colored metal halide capable of forming an insoluble compound with the color bodies in the rosin and separating the precipitate from the solution of rosin.

1,782,268. AUTOMATIC AIR RELEASE FOR AIR BRAKES. PAUL A. MANNING, Madison, Ill., and JOSEPH W. GATES, St. Louis, Mo. Filed Oct. 10, 1928. Serial No. 311,670. 6 Claims. (Cl. 303—80.)



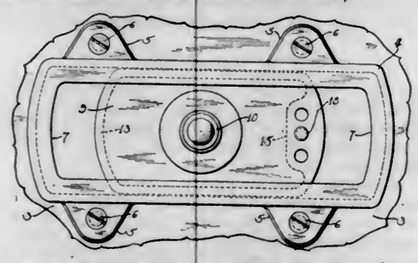
1. In combination with the train line and auxiliary reservoir and triple valve of an air brake mechanism, means connecting the auxiliary reservoir with the train line and automatically discharging the air from the reservoir upon reduction of the train line to atmospheric pressure, said means being adjustable to vary the time interval between the moment of the reduction of the train line to atmospheric pressure and the instant of discharge from the reservoir.

1,782,269. ABRADING MACHINE. PETER MARCHESINI, Peabody, Mass. Filed Sept. 17, 1928. Serial No. 306,400. 4 Claims. (Cl. 51—72.)



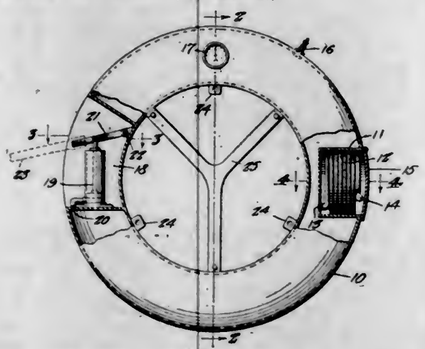
4. In a machine of the class described, a pressing roll, two vertically swingable arms having bearings supporting said roll, two levers separate from and operatively connected with said arms for upwardly swinging them, springs operatively connected with said arms for downwardly swinging them, a transverse bar operatively connected with said levers, a foot pedal under the center of said bar, and a vertical connection between said foot pedal and said center of said bar.

1,782,270. SEAT CONSTRUCTION. WILLIAM S. MENDENHALL, Aberdeen, Wash. Filed Oct. 12, 1928. Serial No. 312,128. 2 Claims. (Cl. 155—33.)



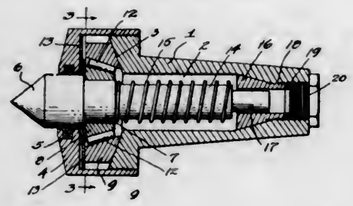
1. A seat construction comprising a seat, a guide casing secured to the seat and having an opening therein, a sliding member disposed within the guide casing and having a shank projecting through the opening in said guide casing, and a pin secured to said sliding member and adapted to be connected with a seat return.

1,782,271. AIR-STORAGE TANK. ELONZA A. PENNINGTON, Arkadelphia, Ark. Filed Oct. 17, 1928. Serial No. 313,084. 4 Claims. (Cl. 220—1.)



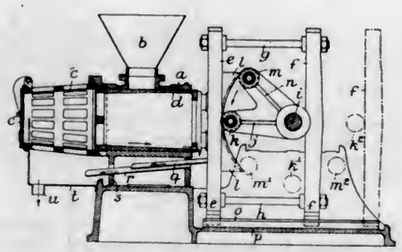
1. In an air storage tank, an annular hollow member of substantially the same size and configuration as an automobile tire, means whereby air under pressure may be introduced into the tank, a hose compartment arranged within the tank, a door for closing the compartment, and a hose within the compartment and having communication with the tank.

1,782,272. LATHE CENTER. LEWIS R. POWER, Lawton, Mich. Filed Jan. 12, 1929. Serial No. 332,103. 6 Claims. (Cl. 82—33.)



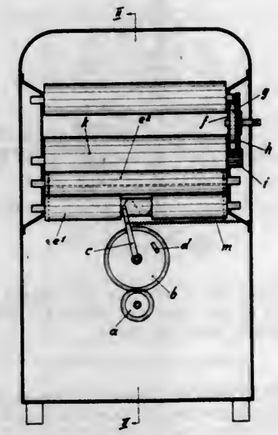
1. In a lathe center, a housing adapted to be secured in the tail stock of a lathe, the said housing being provided with a central bore and a flanged outer end having a conical face opening toward the central bore, a rotatable lathe center extending into the central bore of the housing, a bearing in the said central bore in which one end of the rotatable lathe center is rotatably mounted, an inner bearing race secured to the end of the rotatable lathe center opposite the said bearing and having a conical face, a series of bearing rollers positioned on the said face, an outer bearing race positioned about the said bearing rollers and having a conical face seating against the conical face of the housing, the outer bearing race being split through a portion of its circumference, a cap threaded onto the flanged end of the housing, a yieldable member carried by the cap, and adapted to engage the outer bearing race between the yieldable member and the conical face of the housing as the cap is threaded onto the housing.

1,782,273. PRESS. OTTO RIEMANN, Wellingsbuttel, Germany. Filed Sept. 11, 1928, Serial No. 305,224, and in Germany Mar. 22, 1928. 2 Claims. (Cl. 100—39.)



1. An apparatus for expressing juice or fluid from compressible substances, comprising a cylinder, a feed hopper communicating with said cylinder, a perforated, tapered discharge channel at one end of the cylinder, a piston in said cylinder, an open frame carried by the piston outside the cylinder, a rigidly supported shaft passing through the opening in said frame, a crank on said shaft co-operating with the frame members for reciprocating the piston within the cylinder, a cam element carried by said frame between the shaft and the piston, and an additional crank on the shaft adapted to engage said cam element so as to support the piston against the reaction of the compressed materials after the first crank has passed its dead centre position.

1,782,274. CLOCK-ACTUATED CALENDAR. EMIL SAHNER, Sackingen, Baden, Germany. Filed June 4, 1929, Serial No. 368,255, and in Germany June 4, 1928. 1 Claim. (Cl. 58—6.)



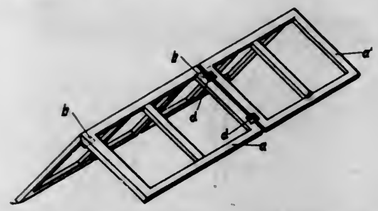
A releasing device for a clock actuated calendar, comprising in combination with an annular band driven by a spring motor, a guide roller over which said annular band passes having a helical groove terminating in a hole, a resilient locking lever actuated by the clock and having a pointed end adapted to normally engage in said hole, a wheel driven by the clock and having an aperture, a releasing element pivotally mounted on said wheel and in said aperture and adapted to lift said locking lever every twenty-four hours from said hole, and a spiral spring adapted to pull said locking lever away from said hole, whereby said spring motor is released to operate and the point of said locking lever falls into said helical groove of said guide roller to be guided back into the hole in said roller and to stop the said spring motor.

1,782,275. FASTENER. WILLIAM P. SAYLOR, Pittsburgh, Pa. Filed Feb. 23, 1929. Serial No. 342,157. 1 Claim. (Cl. 24—246.)



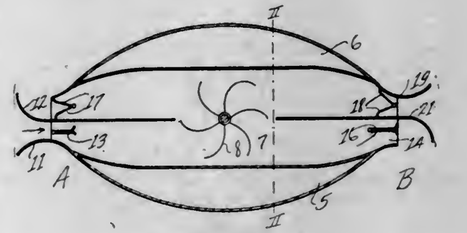
In a hose supporter, a plate to which the usual limb encircling strap may be secured, an arm pivotally secured at one end to said plate, the opposite end of said arm being provided with a pair of laterally disposed and converging spring fingers, a protuberance on the said plate, said protuberance being provided with a pair of pockets therein, into each of which one of the fingers is adapted to engage, said arm at the free end thereof being provided with an extension for engagement by a finger of the person operating the arm, said extension being curved in the direction of the plate.

1,782,276. BEDCOVER FRAME. ERNST THEODOR SEIFARTH, Leipzig, Germany. Filed Mar. 23, 1929, Serial No. 349,287, and in Germany Sept. 27, 1928. 1 Claim. (Cl. 5—319.)



A collapsible bed cover frame adapted to be arranged in inverted V-formation on a bed to support and hold the bed clothes elevated out of contact with the body of a person lying in bed, said frame comprising two pairs of oblong rectangular frame members arranged on opposite sides of the longitudinal center of the frame and each pair consisting of an upper member and a lower member, the upper members being hinged at their inner longitudinal edges for unfolding movement to an inverted V-formation and for a folding movement in parallel overlapping relation, and the lower members being free from connection at their inner longitudinal edges and hinged at their upper end edges to the lower end edges of the upper frame members so as to adapt said lower frame members to be unfolded to form with the upper frame members an elongated Λ-shaped support and to be folded over upon the outer faces of the upper frame members and collapsed in parallel relation to the latter.

1,782,277. POWER APPARATUS. RALSTON R. SMITH, Hayward, Calif. Filed Dec. 15, 1928. Serial No. 326,281. 1 Claim. (Cl. 170—101.)

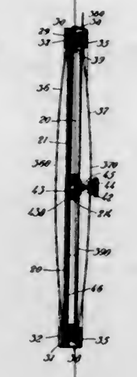


In a device of the character described, a body portion comprising a pair of pontoons, a chamber formed between said pontoons, a division plate positioned at each end of said chamber, a water wheel positioned within said chamber and at a point between the adjacent ends of said division plates, an inlet and outlet port formed at each end of said chamber and at opposite sides of said division plates, a valve positioned within each of said inlet and outlet ports, said valves comprising hinged vanes having flared ends, the flared ends of the inlet valves extending into said chamber, the flared ends of said outlet valves extending in a reverse direction from said inlet valves.

1,782,278. VIBRATING CONDENSER. HANS VOGT, Berlin-Wilmersdorf, Germany. Filed Sept. 6, 1927, Serial No. 217,838, and in Germany Apr. 28, 1926. 9 Claims. (Cl. 179—111.)

1. An electrostatic telephone comprising a rigid plate having a plurality of apertures and composed, at least partially, of a suitable metal, and a vibratile diaphragm mounted in spaced relationship and substantially parallel

to the said rigid plate, the said diaphragm consisting of a light metal alloy preferably aluminium alloyed with not more than 3.5 per cent of magnesium and having a tensile strength of more than 20 kg. per square millimeter and the said diaphragm further having a thickness of approximately .010 to .070 millimeters and a diameter of more than 20 centimeters and being wholly supported peripherally and maintained highly tensioned in radial direction.

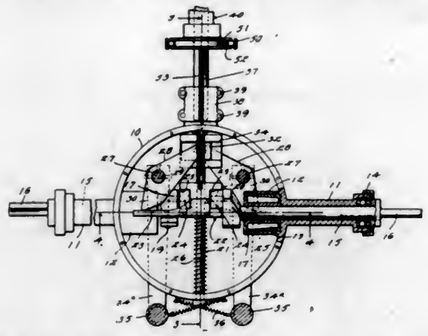


1,782,279. BUST SUPPORT. PAULINE WERNER, NÉE FRESENIUS, Stuttgart, Germany. Filed Sept. 21, 1927, Serial No. 220,980, and in Germany Nov. 2, 1926. 1 Claim. (Cl. 2—42.)

A bust support including a pair of breast pockets, each breast pocket having a cross brace attached at its upper end to the upper inner edge of one of said breast pockets and extending to the lower inner edge of the other breast pocket, and a belt section attached at one end to the lower outer corner of the pocket, the belt section of each pocket extending around the wearer under the other breast pocket and attached at its end to the lower end of the cross brace which is attached to the same pocket to which the other end of the belt section is attached.

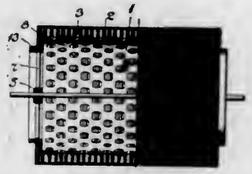
1,782,280. WINDMILL. ARNOLD B. WILLENBRING, Richmond, Minn. Filed Dec. 1, 1928. Serial No. 323,128. 3 Claims. (Cl. 170—68.)

1. In a wheel for windmills and the like, a hub casing, radially pivoted vanes carried thereby, an axially disposed guide within the casing, a yoke slidable upon the guides, slides mounted in the yoke, cranks carried by the inner



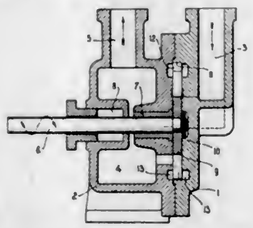
ends of the vanes, pins connecting said cranks and corresponding slides of the yoke, and means for shifting said yoke longitudinally upon the guide.

1,782,281. CYLINDER MOLD OF PAPER-MAKING MACHINES. TARIO YONEKURA, Takaoka, Fuji-Gun, Japan. Filed Feb. 23, 1929, Serial No. 342,179, and in Japan Sept. 18, 1928. 1 Claim. (Cl. 92—42.)



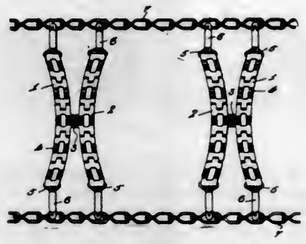
In a cylinder mold for paper making machines, a cylinder having a plurality of spaced annular flanges on its periphery defining liquid passage ways, the periphery of the cylinder being perforated for the entrance and exit of liquid, certain of the flanges having openings therein which are bevelled from the outer faces of such flanges and communicate with two adjacent perforations.

1,782,282. ROTARY PUMP. ADOLF BARGEBOER, The Hague, Netherlands. Filed May 14, 1929, Serial No. 362,989, and in Great Britain Apr. 4, 1929. 12 Claims. (Cl. 230—79.)



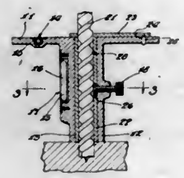
1. In a rotary pump, a casing enclosing a pumping space having two side walls, an impeller adapted for rotation within said space and fitting between said side walls, a channel formed between the circumferential portion of said impeller and the walls of said space, an inlet opening in one of said side walls and located within said channel, an outlet opening in one of said side walls, and a shoot of said channel extending inwardly and forming a recess in a side wall of said space.

1,782,283. ANTISKID CHAIN FOR AUTOMOBILES. DANTE BARTOLETTI, Pittsburgh, Pa., assignor of one-half to Marino Fredici, Monessen, Pa. Filed Apr. 21, 1928. Serial No. 271,886. 1 Claim. (Cl. 152—14.)



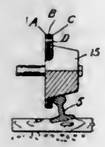
A cross unit for an anti-skid chain comprising a pair of arcuate members each consisting of a series of arcuate links, and an integral connection extending between the middle links of each series, the said members having their convex sides opposed.

1,782,284. BIT GAUGE AND POSITIONING OR LEVELING ATTACHMENT. MIGUEL BETANCOURT, Bronx, N. Y. Filed Dec. 3, 1928. Serial No. 323,550. 2 Claims. (Cl. 145—128.)



1. A bit gauge and positioning or leveling attachment comprising a tubular sleeve, a set screw threaded in said sleeve for clamping the same upon a bit, a disk at one end of said sleeve, and a spirit level mounted in said disk, a bore reducer element fitting into said tubular sleeve and having a bore extending therethrough, said reducer element having a hole therein for the passage of said set screw, and coacting means for preventing accidental turning of said bore reducer member with respect to said sleeve and for aligning said opening with respect to said set screw.

1,782,285. WHEEL FOR RAILROAD VEHICLES. PIERRE MARCEL BOURDON, Paris, France, assignor to Michelin & Cie., Clermont-Ferrand, France, a Corporation of France. Filed Sept. 15, 1930, Serial No. 482,032, and in France Oct. 28, 1929. 4 Claims. (Cl. 295—1.1.)



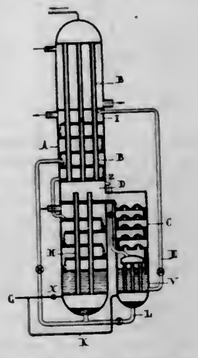
1. A flange for railroad vehicle wheels comprising a part secured to the wheel rim, a part adapted to rub against the rail-head and an elastic vibration-damping part interposed between the two first parts.

1,782,286. PLATE SPRING. ERNEST BURNAND, Paris, France. Filed Nov. 25, 1929, Serial No. 409,707, and in Germany Nov. 29, 1928. 4 Claims. (Cl. 267—48.)



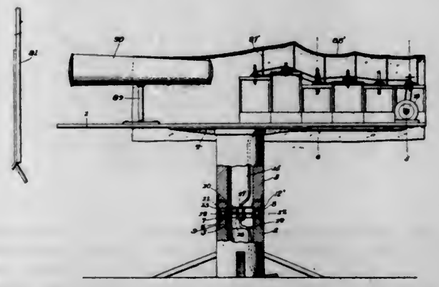
1. A plate spring comprising an auxiliary plate connected to the end of the main plate, it being interposed in the set of spring plates and slidable with reference to said plates.

1,782,287. GAS-SEPARATION PROCESS. GEORGES CLAUDE, Paris, France, assignor to Société l'Air Liquide, Société Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude, Paris, France. Filed May 8, 1925, Serial No. 28,940, and in France June 3, 1924. 10 Claims. (Cl. 183—115.)



4. A process of manufacturing hydrogen, comprising the steps of partially liquefying a gaseous mixture containing hydrogen; extracting the nitrogen-containing liquid formed during the liquefaction operation; subjecting it to a progressive vaporization out of the path of the gaseous mixture undergoing liquefaction; and mixing the gas rich in nitrogen obtained from the vaporization operation with the gaseous mixture at the point where the nitrogen-containing liquid is collected.

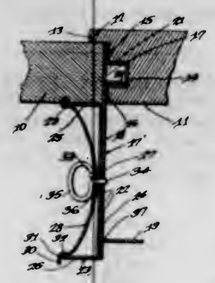
1,782,288. PROJECTING APPARATUS. ROHAN CLUFF, Nogales, Ariz. Filed Aug. 17, 1927. Serial No. 213,594. 10 Claims. (Cl. 88—24.)



1. A projecting apparatus comprising a set of shadow forming elements, a series of light receiving and reflecting elements, one spaced from the other and said elements arranged tandemwise rearwardly of said shadow forming elements, certain of said receiving and reflecting elements having light sources of different colors, means for revolving said elements approximately 1500 revolutions per minute, a telescope arranged adjacent to the inner one

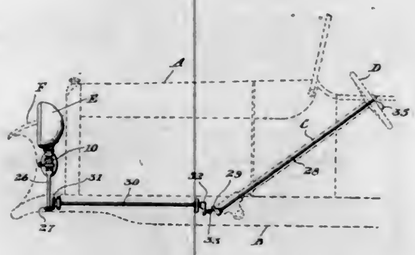
of said light receiving and reflecting elements, and a light confining means for said elements and extended upon the telescope at the entrance end of the latter.

1,782,289. DOOR LATCH. FREDERICK AVERY COX, Chicago, Ill. Filed Apr. 14, 1928. Serial No. 270,092. 2 Claims. (Cl. 292—295.)



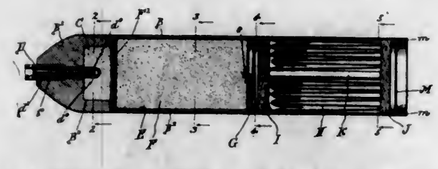
1. A latching device including a substantially flat plate, said plate having projections extending from one face thereof in spaced relation with the ends and having a plurality of openings formed therein adjacent one of said projections, a substantially U-shaped member including an elongated bight portion, a spring member having portions connected to the limbs of said U-shaped member and having the intermediate portions thereof disposed toward said bight portion, a connecting member, means for attaching said connecting member to said spring member whereby when said plate and the bight portion of said U-shaped member are arranged in abutting relation said spring member will force said connecting member through a selected one of said openings.

1,782,290. OSCILLATING HEADLIGHT FOR AUTOMOBILES. HERBERT CRAGG, Ottawa, Ontario, Canada. Filed Sept. 26, 1929. Serial No. 395,428. 1 Claim. (Cl. 240—61.)



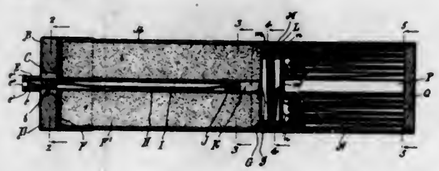
The combination with the headlights of an automobile, of spindles secured to the bottoms thereof, projections on said spindles and a tie rod joining said projections, an arm secured to and depending from one of said spindles and having a pinion secured at the bottom thereof, a shaft mounted on the chassis frame of the automobile and having a pinion secured at one end thereof meshing with said first mentioned pinion, said shaft having a crank connection with a shaft on the steering column of the automobile and means for permitting rotation of said last mentioned shaft to one side only of the position it assumes when said automobile headlights are at dead center.

1,782,291. PROJECTILE FOR SIGNALING OR ILLUMINATING PURPOSES. LOUIS L. DRIGGS, Jr., Tippecanoe City, Ohio, and HENRY B. FABER, New York, N. Y. Filed Nov. 12, 1929. Serial No. 406,670. 6 Claims. (Cl. 102—29.)



1. A projectile, comprising a hollow substantially cylindrical shell having its rear end closed by a heavy base, and its forward end closed by a separate cap, said base being provided with a chamber for the ejecting charge and an ejecting charge mounted in said chamber, and with a time fuse for igniting said charge, after a predetermined time interval, with a flare casing mounted in said shell in front of said chamber, and a parachute in front of said flare casing and connected thereto, whereby the center of gravity of said shell is brought near said base, causing said shell to turn end for end at the beginning of its flight and continue thereafter substantially base foremost.

1,782,292. FLARE. LOUIS L. DRIGGS, Jr., Tippecanoe City, Ohio, and HENRY B. FABER, New York, N. Y. Filed Nov. 12, 1929. Serial No. 406,671. 8 Claims. (Cl. 102—24.)



1. A projectile for signalling or illuminating purposes, comprising a cylindrical shell serving as a loading chamber, a cap closing the rear end of said shell, an igniting charge enclosed in said cap, and a time fuse mounted in said cap and projecting into said igniting charge, a transverse partition secured t the interior of said shell near the center thereof, a tube projecting rearwardly from said partition, and an ejecting charge and quick match contained in said tube, a flare composition and an igniting composition mounted in said shell and surrounding said tube, a gas check mounted in front of said partition, a plug closing the forward end of said shell, stiffening means interposed between said gas check and said plug, a parachute mounted in said shell with said stiffening means, the cable for said parachute having its one end secured to said shell and the other end secured to the parachute stays.

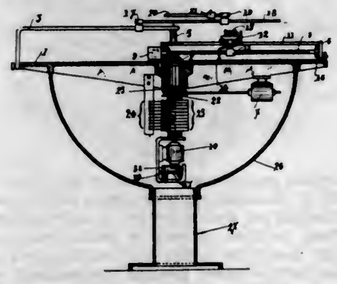
1,782,293. SNAP-FASTENER STUD. FRANK M. ELLIOTT, Detroit, Mich. Filed Mar. 28, 1930. Serial No. 439,621. 5 Claims. (Cl. 24—219.)



1. A stud for snap fasteners including a drive screw having a screwthread upon the shank portion thereof, a

sleeve member formed of soft metal through which sleeve said drive screw is driven to cause said screw thread to cut into the soft metal of the sleeve and rigidly secure said sleeve and screw together, and a head on said sleeve member for separable snapping engngement with a socket member.

1,782,294. METHOD AND APPARATUS FOR TORPEDO-FIRING OPERATIONS. CHARLES LOUIS FLORISSON, Becon-les-Bruyeres, France, assignor to Societe de Condensation et d'Applications Mecaniques, Paris, France. Filed June 13, 1928, Serial No. 285,182, and in France June 28, 1927. 6 Claims. (Cl. 181—26.)

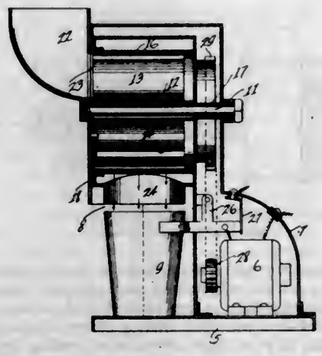


1. The process for conducting the firing of torpedoes which comprises sending, on board of the first vessel, towards the target vessel, elastic submarine waves, receiving the echo thereof, causing the course of said waves to be automatically recorded on a reduced scale, while they travel, repeating said successive operations at intervals whereby the relative disposition of both vessels is drawn on a reduced scale and the speed of the target vessel may be calculated therefrom for deducing the firing data for the torpedo.

1,782,295. MANUFACTURE OF CERAMIC PRODUCTS. VICTOR MORITZ GOLDSCHMIDT, Oslo, Norway. Filed Dec. 11, 1928, Serial No. 325,377, and in Germany Aug. 18, 1927. 12 Claims. (Cl. 25—156.)

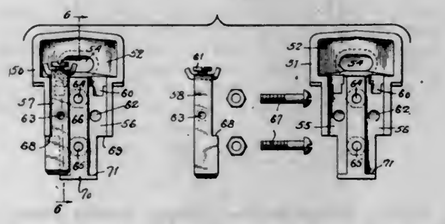
1. A process for the manufacture of ceramic products, in which mixtures of magnesium hydro-silicates, with the exception of talc, with substances rich in magnesium are used, then heating the mixtures to temperatures at which magnesium ortho-silicate is formed without fusion.

1,782,296. ICE-SHAVING DEVICE. ADOLPH O. GOLDSTEIN, Santa Cruz, Calif., assignor to Sno-Ko Inc., Santa Cruz, Calif., a Corporation of California. Filed Aug. 16, 1929. Serial No. 386,287. 1 Claim. (Cl. 83—62.)



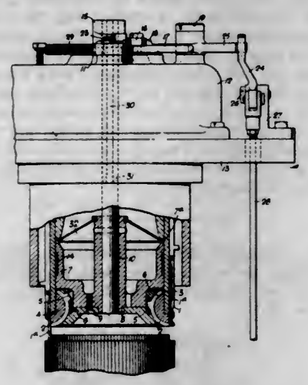
In a device of the character described, a base, a housing positioned on said base, a drum rotatably supported in said housing, a motor supported on said base, said drum being adapted to be rotated by said motor, a recess formed in said housing, a hopper secured to said housing and adapted to feed ice to the interior of said drum, said drum being provided with slots, blades carried by said drum and positioned adjacent said slots, a discharge spout adapted to receive shaved ice from said drum and deposited in a glass positioned within said recess, and a baffle immovably held within said drum, said baffle having arms extending into close proximity with the knives carried by said drum.

1,782,297. ATTACHMENT PLUG AND RECEPTACLE. GILBERT W. GOODRIDGE, Fairfield, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Mar. 16, 1925. Serial No. 16,008. 13 Claims. (Cl. 173—330.)



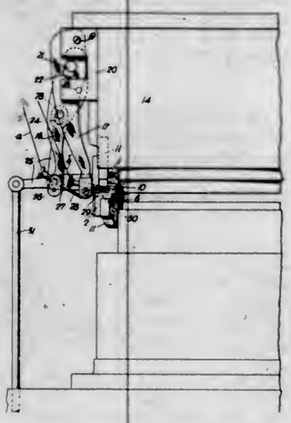
1. A plug receptacle comprising an insulating body recessed to form a well with contact chambers on opposite sides thereof, the top walls of said chambers and side walls thereof facing the well being apertured to accommodate entering plug blades.

1,782,298. CIRCULAR-KNITTING MACHINE. THOMAS SCOTT GRIEVE, Leicester, England. Filed Nov. 19, 1926, Serial No. 149,393, and in Great Britain Nov. 21, 1925. 10 Claims. (Cl. 66—106.)



1. In a circular rib knitting machine, rib and plain needle cylinders co-axially opposed, needles operable in said cylinders for rib and plain knitting, said machine operating with rotary motion and also with reciprocating motion during which latter the knitting yarn slackens; a circular series of web holding elements arranged in the rib cylinder for projection outwards between the rib needles to hold the knitted web against the loop drawing action of said needles, and means whereby said elements can be withdrawn inwards to such extent as to avoid contact with the slack yarn during reciprocatory knitting action of the machine.

1,782,299. YARN-FEEDING MEANS FOR CIRCULAR-KNITTING MACHINES. THOMAS SCOTT GRIEVE, Leicester, England, assignor to T. Grieve & Co. Limited, Leicester, England. Filed Mar. 15, 1929, Serial No. 347,398, and in Great Britain Mar. 31, 1928. 10 Claims. (Cl. 66—137.)

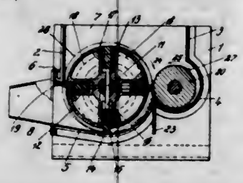


1. In a circular knitting machine, co-axial needle cylinders and cam boxes, a series of needles and means for feeding yarns in plating relation, comprising a pair of fingers pivoted on the rib cam box, the pivot for each finger being disposed so that upon operation of the fingers to change the positions of the yarns the ends which deliver the yarns move substantially radially towards and away from the needles, the path of movement being a substantially horizontal arc.

1,782,300. ALUMINUM ALLOY. HORACE CAMPBELL HALL and TENNYSON FRASER BRADBURY, Derby, England, assignors to Rolls-Royce Limited, Derby, England. Filed Oct. 23, 1929, Serial No. 401,970, and in Great Britain Dec. 18, 1928. 1 Claim. (Cl. 75—1.)

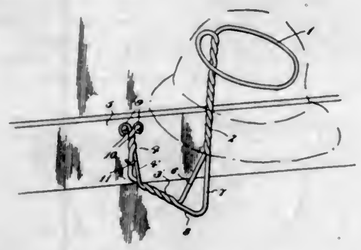
An aluminum alloy formed by compounding the elements, and that in relative quantities respectively within the ranges set out below:—copper 0.5 to 5.0 per cent of the whole, magnesium 0.1 to 1.7 per cent of the whole, nickel 0.2 to 1.5 per cent of the whole, iron 0.6 to 1.5 per cent of the whole, silican .55 to 2.8 per cent of the whole, titanium up to .3 per cent of the whole, manganese up to .3 per cent of the whole, aluminum the remainder, only traces of other elements.

1,782,301. STRING MOLDING PRESS. KARL HÄNDLE, Muehlacker, Germany. Filed Sept. 12, 1929, Serial No. 392,141, and in Germany Sept. 29, 1928. 10 Claims. (Cl. 25—45.)



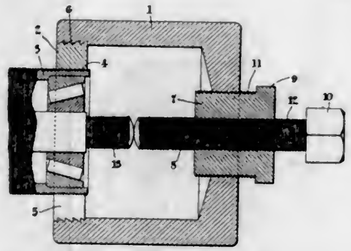
1. String molding press for pasty masses, especially brick-material, comprising a casing open on top with plane cross walls, partly curved side walls, a nozzle, a rotary drum nearly filling up the said casing, slides adapted to move in longitudinal slots of the said drum and being smaller than the width of the said slots, and guide paths provided on the cross walls of the casing and adapted to move the said slides during the rotation of the said drum out against the curved portion of the side walls and back again into the said drum.

1,782,302. HAT HOLDER. JANE C. HARVEY, Miami, Fla. Filed Oct. 16, 1929. Serial No. 400,035. 1 Claim. (Cl. 211—32.)



A hat holder comprising a strand of wire bent to form a loop and a standard extending downwardly from said loop and having an arm at its lower end terminating in an attaching portion adapted to be secured against a support and mount the holder with the standard upright, the portions of the strand forming the standard, arm and attaching portion being twisted together below the loop and in spaced relation to the meeting ends of the arm and standard separated and one extended downwardly and then inwardly to form the lower portion of the standard and outer portion of the arm and the other extending downwardly at a rearward incline to form a brace for the standard extending diagonally between the arm and standard, the strands being then again twisted together to form the intermediate portion of the arm and again separated and one strand extending rearwardly and then upwardly to form the rear portion of the arm and lower portion of the attaching portion and the other strand extending rearwardly at an upward incline to form a brace extending between the arm and attaching portion, the strands being then twisted together to form the upper portion of the attaching portion and having their ends bent to form eyes disposed close to the attaching portion at opposite sides thereof and adapted to bear against the support and prevent the arm and standard from swinging about the attaching portion.

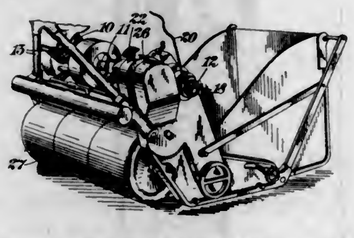
1,782,303. DEVICE FOR REMOVING WHEELS OR OTHER ELEMENTS FROM THEIR BEARINGS. JOHN STEVENSON IMLACH, Ottawa, Ontario, Canada. Filed Feb. 13, 1928. Serial No. 254,146. 1 Claim. (Cl. 29—85.)



A device for removing wheels or other elements, comprising a hollow cylindrical cap member, there being a screwthreaded hole at one end of said member, a screwthreaded sleeve provided with a central bore mounted in said hole, a bolt mounted in said central bore in said sleeve and having a screwthread of shorter pitch than the outer thread on the sleeve, and a split, annular

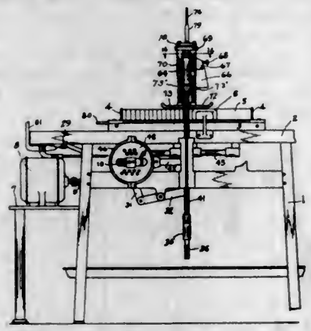
adapter member fitted in the opposite end of the cap member, there being means provided on said annular adapter member cooperating with the cap member to contract said adapter member to embrace an element to be removed.

1,782,304. STARTING DEVICE FOR MOTOR-DRIVEN MACHINES. ARTHUR ERNEST JERRAM, Leicester, England. Filed Nov. 21, 1927, Serial No. 234,863, and in Great Britain Dec. 22, 1926. 6 Claims. (Cl. 56—25.)



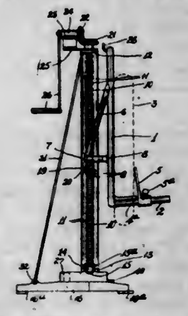
1. A motor-driven movable machine of the kind described comprising in combination, a low-lying shaft adapted, upon rotation, to start the motor of the machine, a flexible tie having one end wound on a part operatively connected with said shaft and adapted to be pulled to rotate the shaft, and a relatively fixed support for a foot of the operator so secured to the machine as to steady the latter whilst the operator is pulling the tie, and as to enable the operator to use his muscular strength to advantage.

1,782,305. CUTTING MACHINE. WILLIAM E. KAY, Elyria, Ohio. Filed Sept. 4, 1925. Serial No. 54,472. 8 Claims. (Cl. 107—21.)



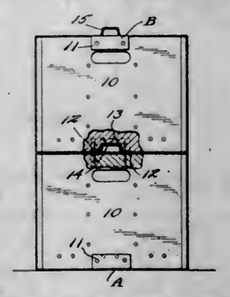
6. In a machine for cutting an elongated block of plastic material, such as ice cream or the like, into a plurality of equal sized cakes, the combination with a machine bed having a longitudinally extending guide, of a carriage longitudinally movable on the bed and adapted to support the material to be cut, an upright cutter support extending upwardly from the bed, and a cutter element journaled for vertical reciprocating in the support and comprising a transverse blade vertically reciprocable through the material, common driving means for the carriage and the reciprocating cutter comprising a ratcheting mechanism for advancing the carriage by a step by step movement on the guide and a rocker arm for operating the cutter, means for variably effecting the step by step movement of the carriage on the guide comprising a ratcheting device, an arm for operating the ratcheting device, and an adjustable connection between the common driving means and the arm, said adjustable connection comprising a pair of superposed plates, a plurality of separately alignable apertures through the plates, a pin insertable through any pair of aligned apertures, one of said plates adapted to be rotated by the common driving means, the other of said plates being joined to the end of the arm and forming an eccentric drive thereof by motion communicated from the rotatable plate, and controlling means for the common driving means comprising a trip mechanism, said trip mechanism comprising a lever arm, a spring therefor, a clutch interposed between the common driving means and the mechanism of the machine, connections adapted to communicate motion from the arm to the clutch to actuate it to disassociate the common driving means from the mechanism, said spring tending to move the clutch to open position and trip means comprising an element carried by the carriage and an element carried by the bed at an end thereof, adapted to release said arm from a clutch actuating position thereof, and manually restoring means for said mechanism, comprising a handle on the lever.

1,782,306. MEANS OR APPARATUS FOR LIFTING MOTOR VEHICLES AND THE LIKE THROUGH THE MEDIUM OF THEIR WHEELS. JOSEPH ADOLPH GEORGE KIRSTEN, East London, South Africa. Filed May 9, 1928, Serial No. 276,386, and in the Union of South Africa May 20, 1927. 5 Claims. (Cl. 214—1.)



4. Apparatus for lifting motor vehicles through the medium of their wheels, comprising a cradle for the wheel, and a lifting jack to which the cradle is pivotally connected and by which it can be raised and lowered, said jack being pivotal about its base and having a stay loosely connected at one end to the base and adapted detachably to engage the frame of the jack to render the jack structure rigid, the cradle including a frame to be placed against the outside of the wheel, having inwardly extending lower parts which project beneath the wheel, adjustable stops on said parts adapted to engage the inner side of the wheel, and bearings fixed to said frame for pivotally engaging with the part of the jack which is raised and lowered, as set forth.

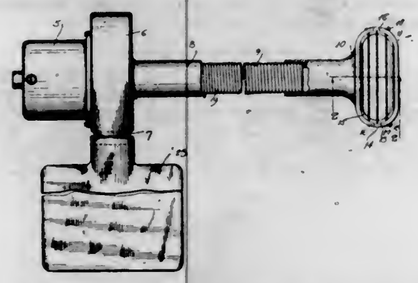
1,782,307. CRATE ATTACHMENT. DELPHIS A. LAGASSÉ, Fall River, Mass. Filed Mar. 28, 1927. Serial No. 179,040. 1 Claim. (Cl. 217—13.)



The combination with a container having recesses at opposite ends, plates secured to the ends of the container,

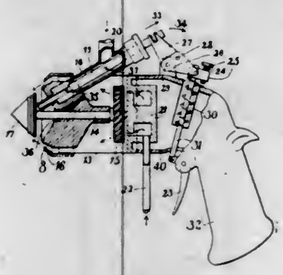
certain of said plates forming one wall of the recesses, flanges extending at right angles from the edges of the plates, and offset portions provided in the intermediate portions of the flanges, the offset portions of certain of the plate flanges extending into the recesses and the offset portions of the other plate flanges being adapted to be received within the offset portions of the first referred to flanges of another receptacle.

1,782,308. PNEUMATIC CLEANING TOOL. FREDERICK LUCKENSMEIER, Reedsburg, Wis. Filed Apr. 22, 1926. Serial No. 103,898. 1 Claim. (Cl. 119—84.)



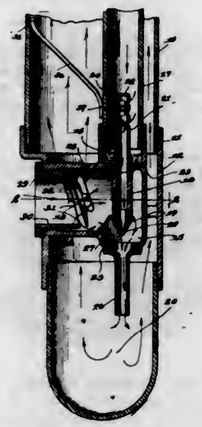
In a vacuum cleaner, an attachment consisting of a head adapted to be connected to a vacuum creating instrumentality, the said head having a rim with seats formed therein in spaced relation to each other, a frame of the general contour of the inner surface of the rim having lugs fitting in the seats of the rim, means extending through portions of the rim and said lugs for securing the lugs to the rim, elements extending parallel to each other and spaced apart on and carried by the frame, and dust dislodging elements on said elements.

1,782,309. LIQUID-SPRAYING DEVICE. KARL LUDWIG, Hamburg, Germany, assignor to "Hundertfeuer" Gesellschaft für Moderne Hautentechnik mit beschrankter Haftung, Hamburg, Germany. Original application filed Aug. 31, 1927, Serial No. 216,637, and in Germany Aug. 31, 1926. Divided and this application filed Oct. 31, 1928. Serial No. 316,305. 10 Claims. (Cl. 91—45.)



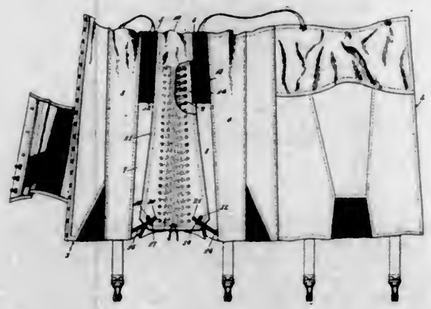
1. A liquid spraying device of the air brush type comprising a closed hollow body, having an air exit at its front end, means for admitting air under pressure to said body, a rotary mechanical atomizer at the front end of said body adjacent said air exit, means for projecting material to be sprayed onto said rotary atomizer, and a rotor within said body and driven by the compressed air therein and having driving connection to said rotary atomizer.

1,782,310. WELL PUMPING APPARATUS. JOHN T. OVERSTREET, San Antonio, Tex. Filed Nov. 19, 1926, Serial No. 149,430. Renewed May 13, 1930. 10 Claims. (Cl. 103—260.)



1. A device of the character described comprising a suction chamber having a depending portion in the bottom thereof of reduced size and an opening in said depending portion, a tube depending from the upper wall of said chamber in line with said opening and terminating at a point adjacent said opening, a tube connected to said depending tubular member for supplying liquid under high pressure so that it will be forced from the tubular member through the opening, a valve for permitting entrance of liquid in said chamber upon the creation of suction therein, and an outlet pipe in communication with said opening in said chamber.

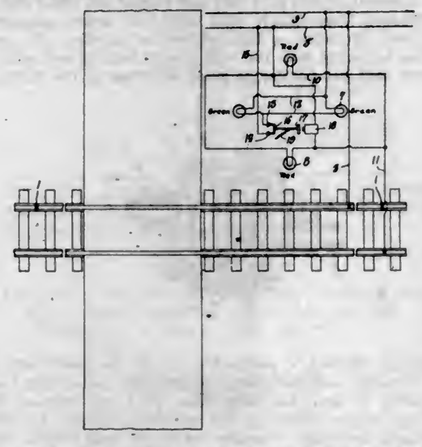
1,782,311. CORSET. ISIDORE PANES, New York, N. Y. Filed Jan. 2, 1930. Serial No. 418,074. 3 Claims. (Cl. 2—40.)



3. A corset comprising a body provided at the front with disengageable fastening means, a panel structure at the back, said panel structure including a pair of strips of non-elastic fabric extending from the bottom of the body to near the top thereof, each of said strips being connected along one edge to said body, lacing for drawing the other edges of said strips toward each other, a covering strip wider at the bottom than at the top and extending from the top to the bottom of said body positioned to cover said lacing, said covering strip being narrower than the combined width of said pair of strips, a panel of elastic fabric at each side of the upper part of said covering strip extending from the top of said body to a point below the top of said pair of strips, said elastic panels being connected respectively to said covering and

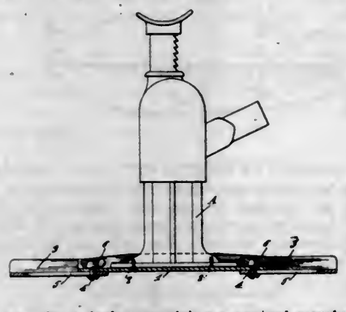
to said body, and a pair of disengageable elastic members for holding the lower part of said covering strip centrally of said pair of strips.

1,782,312. RAILROAD-CROSSING SIGNAL. FRANK PAYNE, Biltmore, N. C. Filed Apr. 9, 1930. Serial No. 442,873. 2 Claims. (Cl. 246—128.)



1. A railroad crossing signal system comprising a lamp casing having a pair of chambers therein, windows in the walls of each chamber visible to persons approaching the crossing, a red lens in each of the windows of one chamber, a green lens in each of the windows of the other chamber, a lamp in each chamber, circuits for the lamps, means whereby the circuit of the lamp in the chamber having the red lenses in its windows is closed by a train approaching the crossing and the circuit of the other lamp is opened and means for closing the last mentioned circuit and opening the other circuit when the train passes the crossing.

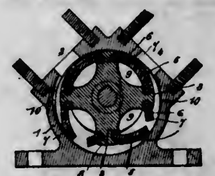
1,782,313. ADJUSTABLE BASE FOR AUTOMOBILE JACKS. ALFRED F. POEHLS, Algoma, Wis. Filed Oct. 30, 1929. Serial No. 403,562. 2 Claims. (Cl. 254—1.)



1. A base for a jack comprising a central member adapted to be fastened to the base of the jack, a side member at each end of the central member and means for slidably connecting the side members with the central member.

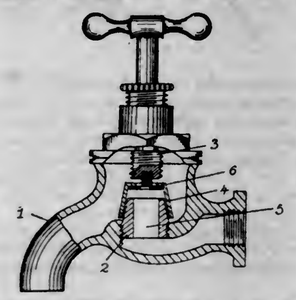
1,782,314. ROTARY PUMP OF THE OSCILLATING-BLADE TYPE. LOUIS ILDEVERT POIRMEUR, Meru, France. Filed Sept. 25, 1929, Serial No. 395,139, and in France Oct. 5, 1929. 6 Claims. (Cl. 103—140.)

1. A rotary machine comprising a bored stator, a rotor adapted to rotate eccentrically inside the stator bore and to remain in contact with the wall thereof along a predetermined generatrix, a fluid inlet and a fluid outlet on either side of said generatrix, a series of blades pivotally secured to the rotor and adapted to open in a given direction and to come into contact with the wall of the bore



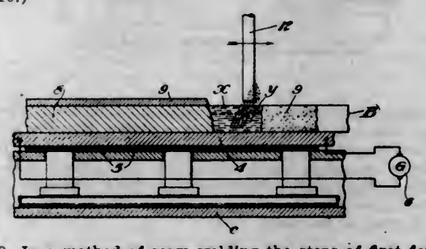
and a series of cylindrical shutters provided with a yielding cover at their outer edge pivotally secured to the rotor and adapted to rotate in the opposite direction and to come into fluid-tight engagement with the wall of the bore throughout the length thereof when they arrive near the generatrix of contact of the stator bore.

1,782,315. WATER TAP. JOHN POWELL, Salop, England. Filed Nov. 14, 1928, Serial No. 319,803, and in Great Britain Feb. 24, 1928. 2 Claims. (Cl. 251—159.)



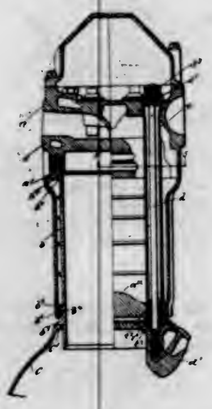
1. In a water tap, in combination, a screw spindle, a thimble, a headed screw for mounting said thimble on said spindle independently of the rotation thereof the head of said screw being located within the thimble, a tapped hole in the end of said spindle for receiving said screw, a nipple screwed into the tap body, and an aperture in said nipple, said thimble being adapted for opening and closing said aperture.

1,782,316. METHOD OF WELDING. BORIS S. ROBINOFF, Pittsburgh, and SUMNER E. PAINE and WRIGNOL E. QUILLEN, McKeesport, Pa., assignors to National Tube Company, a Corporation of New Jersey. Filed May 10, 1929. Serial No. 362,040. 8 Claims. (Cl. 219—10.)



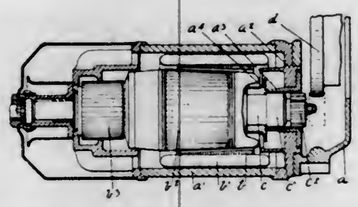
8. In a method of seam welding the steps of first forming a groove along the seam to be welded, then depositing a body of flux in said groove, and then moving a metal electrode along said groove and drawing an arc causing said flux to melt and melting said electrode so as to deposit the molten metal from said electrode through said melted flux.

1,782,317. CYLINDER OF INTERNAL-COMBUSTION ENGINE. FREDERICK HENRY ROYCE, West Wittering, near Chichester, and ARTHUR JOHN ROWLEDGE, Ellerslie, Derby, and ALBERT GEORGE ELLIOTT, West Wittering, near Chichester, England. Filed Dec. 7, 1927, Serial No. 238,442, and in Great Britain Dec. 24, 1926. 2 Claims. (Cl. 123—173.)



1. In a multi-cylinder internal combustion water-cooled engine, a cylinder block having a single walled cooling jacket, and head and base portions all integrally cast of aluminum alloy, said head and base portions being recessed and having packing means associated therewith for seating steel cylinder liners therein, registering bolt holes formed in said head and base portions, fastening means passing through said bolt holes and connecting with a supporting crank-case, and aluminum tubes having gas and water-tight connections with said head and base portions surrounding said fastening means.

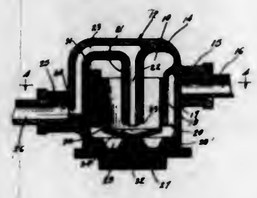
1,782,318. ELECTRICAL TURNING GEAR FOR STARTING INTERNAL-COMBUSTION ENGINES. FREDERICK HENRY ROYCE, West Wittering, near Chichester, England, assignor to Rolls Royce Limited, Derby, England. Filed Jan. 16, 1929, Serial No. 332,970, and in Great Britain Feb. 14, 1928. 2 Claims. (Cl. 74—7.)



1. Electric turning gear for starting internal combustion engines of the type in which a pinion fixed for rotation on an extension of the armature shaft of a starting motor is caused to move axially into engagement with a toothed wheel geared to the engine shaft, characterized in that normally the pinion is within the hollow of the end bearing of the motor shaft.

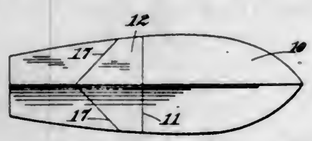
1,782,319. RADIATOR TRAP. ALBERT R. SCHOULTZ, Joliet, Ill. Filed May 3, 1929. Serial No. 360,206. 1 Claim. (Cl. 137—103.)

In a device of the class described, a housing providing a chamber interiorly thereof, a boss on said housing projecting downwardly into said chamber from the upper end thereof, said boss having a tapered end portion terminating in spaced relationship with the lower end of said chamber and having an outlet passage extending therethrough, means including a web portion providing an inlet passage terminating in spaced relationship to the lower end of said chamber, a substantially cup-shaped float having the upper end thereof open and including a body portion disposed around said boss and having the walls thereof disposed intermediate said inlet and outlet passages, said float including a tapered bottom portion, ribs extending inwardly from the wall of said housing and adapted with said web portion to guide said float in the vertical



movement thereof, a removable cap at the lower end of said housing and including an upwardly extending boss providing a seat for said float, said cap having an annular groove formed on the inner wall thereof adapted to collect sediment, whereby water of condensation entering said inlet passage will raise said float until the tapered bottom portion thereof engages the tapered end portion of said boss to prevent said water escaping through said outlet passage, and when the water in said chamber reaches the height of said float said float will be lowered onto said seat thereby causing a siphoning action in said outlet passage and permitting water to flow from said cup therethrough.

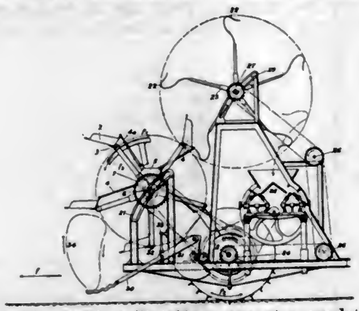
1,782,320. HULL OF WATER CRAFT. HUBERT SCOTT-PAINE, Southampton, England. Filed Oct. 15, 1929, Serial No. 399,813, and in Great Britain Nov. 30, 1928. 5 Claims. (Cl. 114—66.5.)



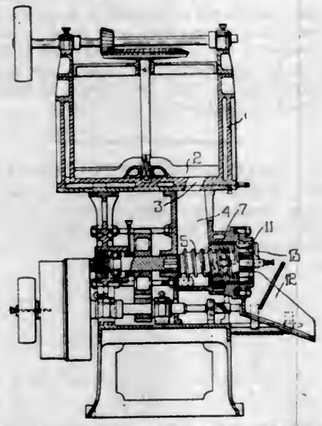
2. In watercraft of the type which has a stepped hull-bottom, a step-structure separately constructed as a box-like unit and shaped on the side coming into contact with the hull-bottom to the configuration of said hull-bottom and means whereby said unit can be detachably secured to said hull-bottom.

1,782,321. REAPING MACHINE. EUGENE EDMOND CHARLES SERRE, Paris, France. Filed Apr. 12, 1927, Serial No. 183,044, and in France May 1, 1926. 7 Claims. (Cl. 56—103.)

1. An agricultural machine for the automatic reaping of maize cobs from the stalks comprising a frame adapted to move over the ground, a spider member having a plurality of arms rotatably mounted on said frame, means for causing rotation of said spider member, bucket members carried by each of said arms and oscillatable means rotatably mounted in said bucket members for resiliently and positively gripping the said cobs and detaching the same from their stalks, means for rotating and for causing oscillation of said oscillatable member, and means for normally holding said oscillatable means at a pre-determined distance above the bucket members and for limiting the angle of movement toward the bucket.

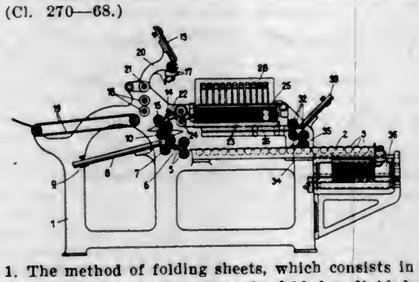


1,782,322. MOLDING MACHINE. ALBERT WILLIAM SIZER, Hessle, England. Filed Sept. 3, 1929. Serial No. 390,163. 1 Claim. (Cl. 18—12.)



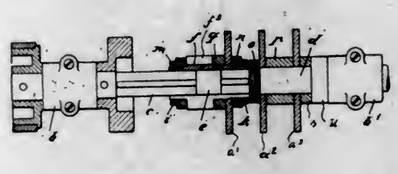
A continuous molding machine for plastic material comprising in combination a compression chamber, a die plate closing said chamber, a feed worm body mounted to rotate within said chamber of lesser diameter than said chamber for the major proportion of its length, a shallow helical flange on said feed worm body merging at the delivery end into a flange of diameter equal to the internal diameter of said compression chamber.

1,782,323. CROSS-FOLDING MACHINE. GEORG SPIESS, Leipzig-Plagwitz, Germany. Filed Apr. 25, 1927, Serial No. 186,338, and in Germany May 7, 1926. 18 Claims. (Cl. 270—68.)



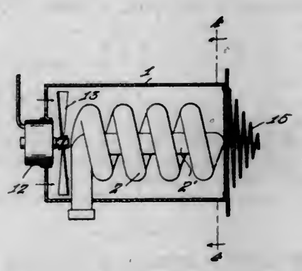
1. The method of folding sheets, which consists in folding an undivided sheet, cutting the folded undivided sheet transverse to the fold into smaller folded sheets, feeding the smaller folded sheets to a common cross-folder and cross-folding the same, and then feeding the sheets so cross-folded to another cross-folder and further cross-folding the same thereby.

1,782,324. SHAFT COUPLING. KARL TESSKY, Esslingen-on-the-Neckar, Germany. Filed June 30, 1925, Serial No. 40,650, and in Germany July 21, 1924. 4 Claims. (Cl. 287—110.)



1. The combination with a pair of aligned shafts arranged in sufficiently spaced relation to enable attachment and removal of devices adapted to be operated by said shafts, of a split coupling device threaded at each end and provided intermediate its threads with an annular flange, a clamping nut for each end correspondingly threaded, the thread of the sleeve being formed at one side of its crest with a relatively wide face inclining upwardly away from the flange at a relatively small acute angle with relation to the longitudinal axis of the sleeve whereby to produce compressive action upon the sleeve when the clamping nut co-acts with the flange and at the other side with a narrower reaction face forming a relatively large acute angle.

1,782,325. VEHICLE HEATER. GEORGE N. THOMAS, Mankato, Minn. Filed Apr. 24, 1929. Serial No. 357,776. 2 Claims. (Cl. 257—241.)

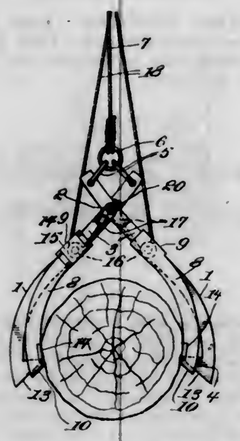


1. A device of the class described comprising a casing having one end entirely open and in direct communication with the interior of a vehicle, a coil in said casing, means for leading the exhaust gases from the engine of the vehicle through the coil, a valve for controlling such means, a fan at the other end of the casing for forcing the air from the casing into the interior of the vehicle, and a deflector at the outlet end of the casing for evenly distributing the air therefrom into the vehicle, said deflector being of spiral form and of conical shape.

1,782,326. HOISTING TONGS. WALTER E. TORNQUIST, Hoquiam, Wash. Filed Mar. 13, 1930. Serial No. 435,568. 4 Claims. (Cl. 294—112.)

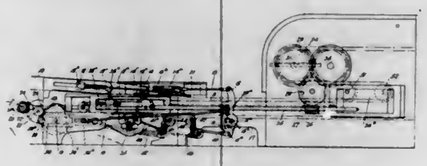
1. A hoisting tongs comprising a pair of crossed arms which are pivotally connected and which have their outer

ends arched inwardly and formed at their ends with inwardly projecting prongs, a pull line connected to the upper ends of the arms for swinging the prongs toward each other, a channeled member in which the arched and pointed ends of the prongs are received, each of said



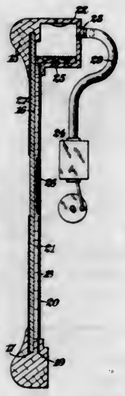
members having an opening in the inner face thereof for the passage of the prongs therethrough, each of said members having its opposite end closed, lines connected to the pivot for the arms of the prongs, sneave wheels on the sides of the closed ends of the members to which the lines are trained and a cable connected to the lines.

1,782,327. BISCUIT-MAKING AND THE LIKE MACHINE. EDWARD LYNTON VICARS, Earlestown, England, assignor to T. & T. Vicars Limited, Earlestown, England. Filed Dec. 11, 1925, Serial No. 74,725, and in Great Britain Dec. 17, 1924. 8 Claims. (Cl. 107—7.)



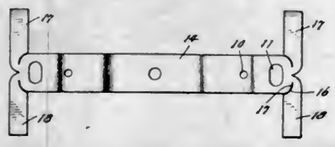
1. A biscuit making machine comprising an oven, an endless oven conveyor moving at a uniform rate of speed through the oven, three sets of guide wheels over which the conveyor runs at the feeding end whereby it is given a first reversal of direction at the first set, a second reversal at the second set and a third reversal at the third set, means to couple said first and second sets to move together in a direction parallel to the flight of the conveyor between them, a stationary bearing for the third set, a rotating shaft, and means operated by said shaft to move said first and second sets whereby to produce alternately apparently decreased and increased movements of the flight of conveyor between them, and including a cam, a lever, a link operated from said cam and pivotally connected to said lever to move the same, a device connected to said coupling means and including an actuator link pivotally connected to said lever for moving said first and second sets, and means provided on said lever to vary the point of pivoting of said actuator link thereon whereby to change the distance of movement of said first and second sets.

1,782,328. DISPLAY APPARATUS AND METHOD OF OPERATING THE SAME. GORDON AUGUSTUS WEARHAM, London, England. Filed May 21, 1929, Serial No. 364,854, and in Great Britain May 23, 1928. 21 Claims. (Cl. 40—28.)



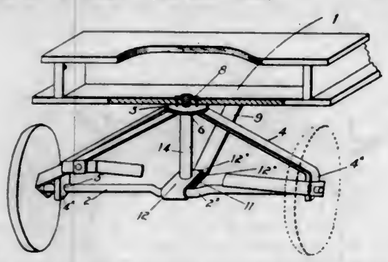
3. Display apparatus comprising a container having one wall constituting a window, and liquid constituting a screen situated in the container so as to be visible through the window, in combination with means operating by fluid pressure arranged to vary the amount of liquid situated in the line of vision through the window.

1,782,329. METHOD OF MAKING MOUNTING ELEMENTS WITH PLASTER EARS. BENJAMIN C. WEBSTER, Southport, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Oct. 8, 1929. Serial No. 398,181. 4 Claims. (Cl. 113—119.)



1. The method of making a plaster ear on a mounting element which comprises forming a slit in the end of a piece of strap stock, notching the piece in its side edges in the region of the inner end of the slit and bending an end part, thus formed by the slit, outwardly substantially in the plane of the piece.

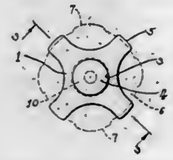
1,782,330. CHILD'S WAGON. JOHN WERLICH, Preston, Ontario, Canada. Filed May 18, 1929. Serial No. 364,133. 1 Claim. (Cl. 280—113.)



In a wagon, the combination with a wagon body having a fifth wheel member secured to the end face thereof, a

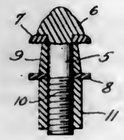
transverse bolster bar, a fifth wheel member secured to the bolster bar in contact with the aforesaid fifth wheel member said bolster bar having vertical ends, an axle extending diametrically of the fifth wheel and at its ends through the vertical portions of the bolster, and having a central portion offset, a bolt extending through the wagon body and members of the fifth wheel bolster and depending at its lower end in central alignment with the axle, a clip extending around the offset portion of the axle and through which the bolt also extends, a brace extending from the clip rearwardly to the body of the wagon, and a spacing sleeve extending between the fifth wheel and the clip.

1,782,331. LENS ATTACHMENT FOR EYES. BENJAMIN L. WILHELM, Chicago, Ill. Filed June 8, 1928. Serial No. 283,844. 6 Claims. (Cl. 88—54.)



1. A device of the type described comprising a lens, and means for securing said lens to an eyeball, said securing means adapted to be disposed between the muscles of said eyeball.

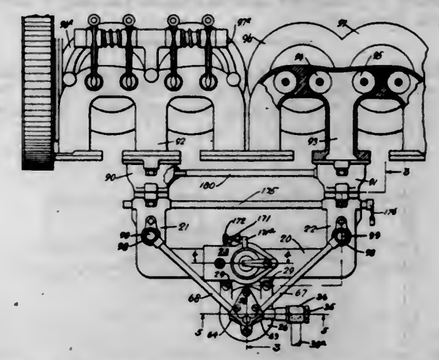
1,782,332. EMBALMER'S PLUG. CHARLES L. ARNOLD, Shelbyville, Ky. Filed Mar. 25, 1930. Serial No. 438,801. 1 Claim. (Cl. 27—1.)



In a device of the class described, a body portion comprising an inner section and an outer section, said inner section being constructed of hard rubber material, a head at one end of the inner section, said head presenting a shoulder, a soft rubber washer positioned against the shoulder, a sleeve engaging the soft rubber washer to hold the washer in position against the shoulder, a soft rubber washer engaging the opposite end of the sleeve, and a sleeve threaded on the inner section and engaging the last mentioned washer to hold the first mentioned sleeve and washer in position.

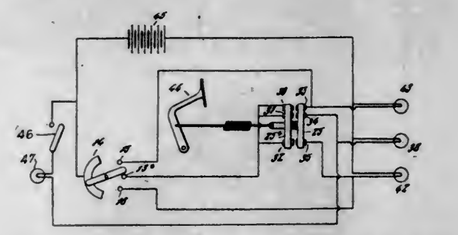
1,782,333. CHARGE-FORMING DEVICE FOR INTERNAL-COMBUSTION ENGINES. FRED E. ASELTINE, Dayton, Ohio, assignor, by mesne assignments, to Delco Products Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Jan. 26, 1925. Serial No. 4,665. 80 Claims. (Cl. 123—52.)

1. A charge forming device for an internal-combustion engine comprising, in combination: an air conduit having an air inlet and communicating with the intake port of an engine cylinder; a fuel-relay chamber adjacent the cylinder intake; means for delivering a charge of liquid fuel to said relay chamber; a venturi in the conduit having a constricted throat portion in communication with the relay chamber whereby fuel is directed from said chamber into the venturi at its constricted throat portion; and means for delivering a portion of the fuel



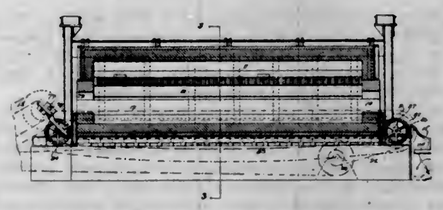
charge in the relay chamber into the venturi at a point between the constricted throat portion and the cylinder intake.

1,782,334. COMBINED LIGHT AND SIGNAL. OMER R. AURAND, Shamokin Dam, Pa. Filed Jan. 28, 1927. Serial No. 164,279. 1 Claim. (Cl. 177—337.)



In a vehicle signalling device, directional signal lamps, a stop lamp, a pilot lamp, a source of electrical energy in a circuit with the lamps, said pilot lamp being in a series circuit with the stop lamp to normally retain the latter partly illuminated, a switch for controlling the said series circuit to act as a tail lamp, a switch in the first mentioned circuit and carried by the steering wheel of a vehicle to selectively illuminate the directional signal lamps, and a vehicle controlling pedal operated switch in the first mentioned circuit to illuminate the stop lamp to full brilliancy and the directional signal lamps simultaneously therewith to indicate a stop.

1,782,335. FURNACE CONVEYER. GEORGE F. BEACH, Philadelphia, Pa., assignor, by mesne asignments, to Ryan, Scully & Company, Philadelphia, Pa., a Corporation of Delaware. Original application filed Apr. 8, 1926, Serial No. 100,681. Divided and this application filed June 1, 1927. Serial No. 195,766. 15 Claims. (Cl. 198—189.)



1. A furnace conveyer comprising a flexible belt, and a plurality of attachments therefor providing successive

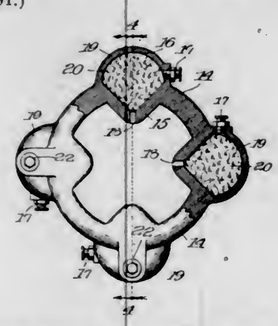
overlapping blades, the upper edges of which are adapted to constitute supporting surfaces, said blades being twisted to present an inclined face to the line of movement of the belt.

1,782,336. SHIRT COLLAR. HUGO BEZNER, Grossingersheim, Germany. Filed Aug. 23, 1927, Serial No. 214,882, and in Germany June 30, 1927. 3 Claims. (Cl. 2—129.)



1. A turn-down starched collar including a body portion, a neckband portion, and a visible mark on one of said portions extending substantially the length of the collar and longitudinally thereof, said mark being formable into a straight line before the collar is ironed to indicate the proper position in which the portions of the collar are to be ironed in order to provide a space between said portions, after the folding thereof, through which a necktie is easily slidable.

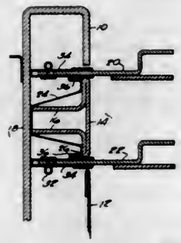
1,782,337. MEANS FOR LUBRICATING CONNECTERS. BENJAMIN S. BURRELL, East Chicago, Ind. Filed Apr. 14, 1928. Serial No. 270,070. 2 Claims. (Cl. 64—91.)



1. A wobbling coupler construction comprising a rotatable drive member, a rotatable member to be driven thereby, and a rotatable coupler member encircling at its ends the ends of the others of said members and having inwardly extending projections at which said coupler member has wobbling driving connection with each of said first and second-named members, said coupler member containing a lubricant chamber in radial alinement with one of said projections and opening into the joints between said coupler member and said first and second-named members for supplying lubricant to the driving and driven surfaces of said members.

1,782,338. SEALING MECHANISM FOR METAL WINDOWS. HARRY E. CAMPBELL, Baltimore, Md., assignor to Campbell Metal Window Corporation, Baltimore, Md., a Corporation of Maryland. Filed Aug. 3, 1929. Serial No. 383,190. 3 Claims. (Cl. 189—65.)

1. In a window of the type having jambs, openings through the inner walls of the jambs, a parting strip forming part of the inner jamb wall between such openings, separate enlarged chambers back of such openings and sashes having plates adapted to extend through such openings, members movable vertically with the sash plates and held substantially in contact with such plates in such a way as to permit relative transverse movement between the two, and members attached in the jamb adapted to contact with the rear wall of the parting strip and having a portion extending back into the



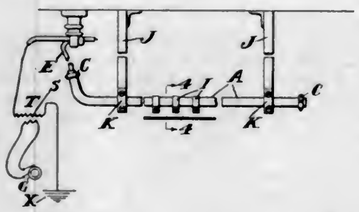
jamb substantially parallel with the sash plates and adapted to engage such movable sash members to make a seal between the sashes and the parting strip and also to draw the sashes towards the parting strip.

1,782,339. SHADE AND SCREEN FOR DOORS, WINDOWS, AND THE LIKE. ANTHONY CAMPOBASSO, Chicago, Ill. Filed Oct. 4, 1928. Serial No. 310,366. 4 Claims. (Cl. 156—10.)



3. In a screen construction, a connecting link having looped ends, and a spirally formed tubular member having yielding, overlapping edges for receiving said link, the looped portions of said link being larger than the diameter of said spirally formed tubular member.

1,782,340. DISCHARGE BAR FOR NEUTRALIZING STATIC ELECTRICITY. WILLIAM HENRY CHAPMAN, Portland, Me., assignor to Chapman Electric Neutralizer Company, Portland, Me., a Corporation of Maine. Filed Apr. 6, 1929. Serial No. 353,219. 6 Claims. (Cl. 175—264.)

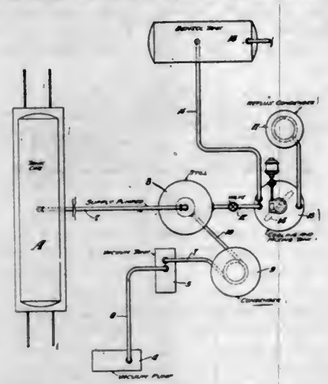


5. A discharge bar for neutralizing static electricity comprising a conductor bar, a compressible insulating sheath thereon, a capacitively coupled sleeve, means for clamping it about the bar, and a resiliently mounted discharge point connected to said sleeve and comprising a conic spirally coiled base and a tip member projecting therefrom.

1,782,341. COATING COMPOUND. STANTON I. CHARLESWORTH and ARCH W. HARRIS, Cleveland, Ohio. Filed Feb. 4, 1927. Serial No. 165,870. 2 Claims. (Cl. 134—51.)

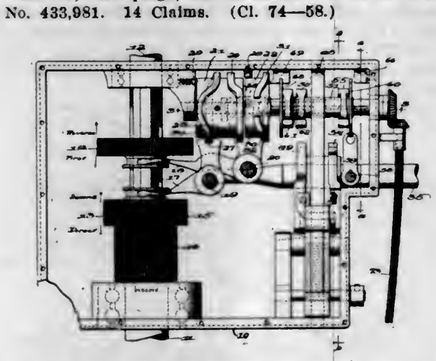
1. A coating compound adapted to form a hard resinous coating on metal or other surfaces, comprising a resin base consisting of the residue remaining after the distilling, up to 300 degrees centigrade under approximately

28 inches of vacuum, of the pure still residue remaining after the distillation of the light oils recovered from by-



product coke oven gas, said resin base being mixed while molten and hot with approximately 30 per cent. by weight of benzol or other light oil products.

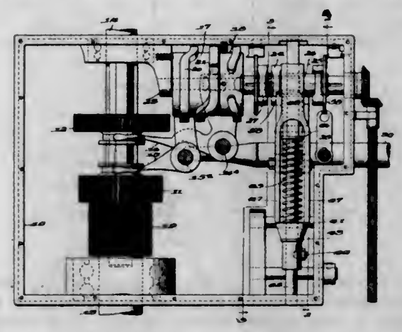
1,782,342. TRANSMISSION MECHANISM. DONALD C. DOBBINS, Champaign, Ill. Filed Mar. 7, 1930. Serial No. 433,981. 14 Claims. (Cl. 74—58.)



1. In combination with a shiftable change speed gearing, a clutch and a clutch control pedal therefor; of a gear shifting mechanism comprising an actuator operatively connected to said clutch pedal, means for automatically preselecting speed gear shifting for forward speed increasing drive, means for manually preselecting speed gear shifting for reverse and forward speed decreasing drive, means adapted for engagement by said actuator for progressively shifting said gearing in any preselected order or direction through a series of successive speeds to and from neutral position automatically upon successive depressions of said pedal, and means controlled by the initial movement of depression of said pedal for holding said clutch out of engagement, and upon final movement of depression of said pedal for causing said actuator to engage said shifting means.

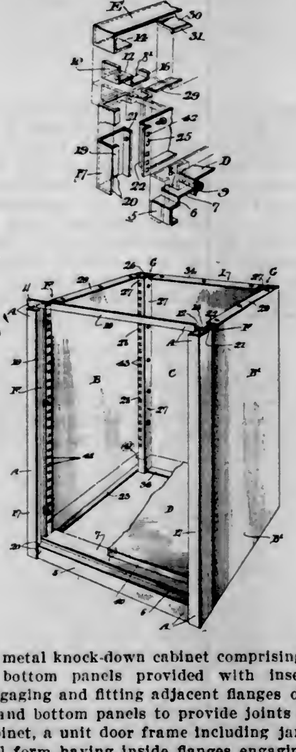
1,782,343. TRANSMISSION MECHANISM. DONALD C. DOBBINS, Champaign, Ill. Filed Apr. 21, 1930. Serial No. 446,007. 20 Claims. (Cl. 74—58.)

1. In a shiftable change speed gearing including shiftable gears, a clutch therefor, means for shifting said gears successively into engagement with different speed and direction gears, cam means for said shifting means, a foot pedal, and connections associated with said foot pedal for effecting disengagement of said clutch upon initial depression of said pedal and effecting shifting of said gears to neutral position upon final depression of said pedal, means for effecting shifting of said gears to the next progressive speed upon initial release of said pedal and engagement of said clutch upon final release



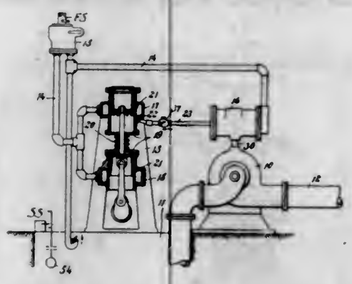
thereof and after engagement of said driving gears has been established, said last named means being operable to shift said gears through successive speeds automatically without manual preselection for forward drive.

1,782,344. KNOCKDOWN METAL CABINET. GLENN T. GOURLEY, Youngstown, Ohio, assignor to General Fireproofing Company, Youngstown, Ohio, a Corporation of Ohio. Filed July 12, 1926. Serial No. 121,970. 4 Claims. (Cl. 312—141.)



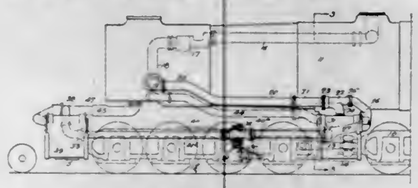
2. In a metal knock-down cabinet comprising back, side, top and bottom panels provided with inset marginal flanges engaging and fitting adjacent flanges of said back, side, top and bottom panels to provide joints lying inside of the cabinet, a unit door frame including jamb members of channel form having inside flanges engaging the front edge flanges of the sides, a lintel member having flanges engaging the flanges of the top, and a sill member having flanges engaging the flanges of the bottom.

1,782,345. CENTRIFUGAL-PUMP-PRIMING SYSTEM. OTTO HAENTJENS, Hasleton, Pa. Filed May 18, 1929. Serial No. 364,189. 3 Claims. (Cl. 103—113.)



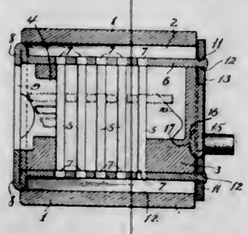
1. In combination, a centrifugal pump, suction priming means therefor including a conduit leading from the pump casing, a valve in said conduit adapted to be closed by pump pressure and suction-operated means tending to hold said valve open.

1,782,346. STEAM PIPE FOR LOCOMOTIVES. HENRY K. HARWICK, Darby, Pa. Filed May 10, 1929. Serial No. 362,089. 3 Claims. (Cl. 105—47.)



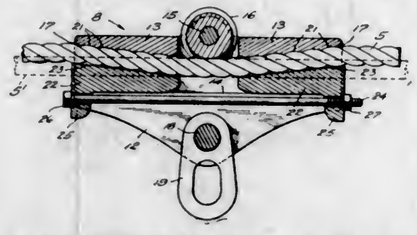
1. The combination in a high pressure simple "mallet" locomotive, of a front frame and a rear frame pivotally connected; a cylinder saddle on each frame; a cylinder secured to each side of each saddle; a live steam pipe extending from one cylinder saddle to the other; and two live steam pipes extending from the smoke-box end of the boiler to the cylinders on the rear frame, said pipe having an outside T coupling, one branch of the T being directly connected to the valve chest of a cylinder, the other branch of the T extending to the rear of the saddle and communicating with the pipe leading from the rear cylinder structure to the forward cylinder structure.

1,782,347. CYLINDER LOCK. FREDERIC K. HEYER, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Oct. 13, 1926. Serial No. 141,302. 12 Claims. (Cl. 70—46.)



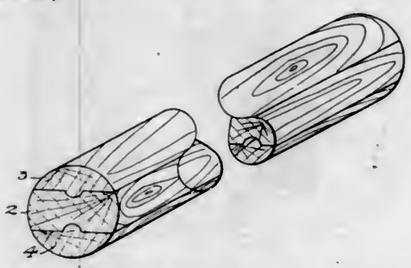
1. A plug structure for a cylinder lock, comprising a core member, a reinforcing member surrounding the same, said reinforcing member being independent of said core member and a cam plate secured to said reinforcing member and having connection with the core member, whereby said members are rotatable together.

1,782,348. PULLEY CARRIER FOR GUY LINES. SEYMOUR W. HILLIER, Sultan, Wash., assignor of one-half to James Headrick, Sultan, Wash., and one-fourth to G. G. Startup, Sultan, Wash. Filed Sept. 17, 1928. Serial No. 306,453. 10 Claims. (Cl. 254—190.)



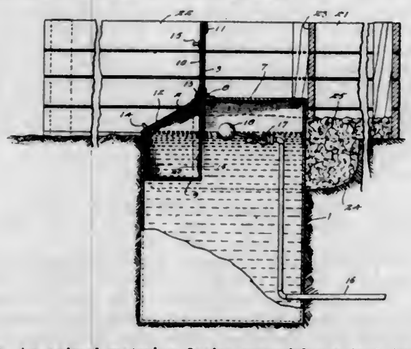
1. In a pulley carrier adapted to be secured to a supporting cable, said carrier comprising longitudinally spaced block elements having upwardly and outwardly diverging grooves in the lower face and plate elements depending in parallel relation from the sides thereof, cable engaging means carried between said plates at both ends of the carrier, said means being arranged for movement longitudinally of the carrier and adapted to cooperate with said block elements for deflecting the cable upwardly into angularly engaged relation with the carrier.

1,782,349. SPEAR POLE FOR REMOVING PAPER FROM THE ROLLERS OF PAPER-MAKING MACHINES. RAY B. HULL, near Dayton, Ohio. Filed Nov. 23, 1929. Serial No. 409,385. 3 Claims. (Cl. 93—38.)



1. A laminated soft wood spear pole for removing paper from the clogged up rollers of a paper making machine.

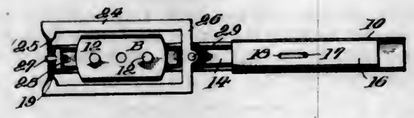
1,782,350. STOCK WATERER. FERDINAND M. HUPP, Clearwater, Nebr. Filed Dec. 28, 1929. Serial No. 417,158. 5 Claims. (Cl. 119—73.)



1. An animal watering device comprising a tank having a portion of the top thereof cut away at an inclination,

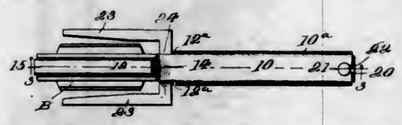
an upstanding partition wall secured in the upper part of the tank and projecting downwardly thereinto, a receptacle arranged in the tank at the side of the wall adjacent the inclined part thereof, said receptacle constituting a drinking trough and having a back wall extending upwardly and formed to provide a supporting flange engaging over the top edge of the first mentioned wall, means for permitting water to flow from the tank into the receptacle, means for controlling the flow of water into the tank, a hinged cover for the receptacle, and a cover for the remaining part of the tank.

1,782,351. RAZOR-BLADE STROPPER. ROBERT H. INGERSOLL, New York, N. Y.; Charles S. Smith, Lansing, Mich., and Frederic C. Leubuscher, Essex Fells, N. J., executors of said Robert H. Ingersoll, deceased, assignors to Robt. H. Ingersoll, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 16, 1926. Serial No. 135,915. 4 Claims. (Cl. 51—218.)



1. In a razor blade stropping device, a handle having a blade holder connected therewith, said holder including elements to support the blade rigidly with regard to the handle for stropping, one of said elements having its end bent out of plane, a rocking guard comprising a rigid frame and guard rods spaced from and parallel to the edges of the blade when in stropping position, a pivot pin supported in said bent end, and supporting said guard, and a journal for said guard fastened to said bent element adjacent the opposite end thereof.

1,782,352. RAZOR STROPPER. ROBERT H. INGERSOLL, New York, N. Y., assignor to Robt. H. Ingersoll, Inc., New York, N. Y., a Corporation of New York. Filed July 26, 1927. Serial No. 208,484. 5 Claims. (Cl. 51—218.)



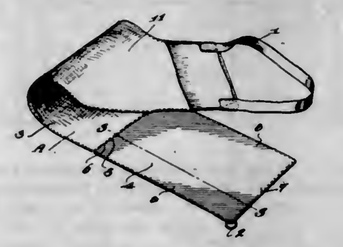
5. In a razor blade holder, a pair of members each constituting an integral handle and blade holder element, one of said members having blade receiving and retaining lugs secured thereto and directed toward the other member, said members being pivoted together to move toward and from one another for placing a razor blade on and removing the same from said lugs, said members when together constituting a blade holder device for securing the razor blade in position, means to clamp said members together in operative position, and a guard pivotally mounted on one of said members on the side thereof adjacent the other member so that the guard pivot mounting is located between the members when clamped together, said members being spaced apart so that said guard may project therethrough, the portions of said members so spaced apart constituting stops to limit the rocking movement of said guard.

1,782,353. ZEOLITE. ALPHONS O. JAEGER and JOHANN A. BERTSCH, St. Louis, Mo.; said Jaeger assignor to The Selden Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Apr. 6, 1926. Serial No. 100,116. 40 Claims. (Cl. 23—234.)

4. Zeolite bodies containing at least one catalytically active complex basic compound in non-exchangeable form and containing at least one nuclear acid component other than SiO_2.

22. The method of preparing zeolite bodies which comprises causing a complex compound of a base to react with nuclear acid forming components under conditions of zeolite formation, and decomposing at least a part of the complex compound by transforming it into a compound of lower degree of dissociation and eliminating this latter compound.

1,782,354. COTTON-PICKING SACK. WILLIAM R. KEENE, Ruleville, Miss. Filed June 12, 1928. Serial No. 284,828. 1 Claim. (Cl. 150—2.)



A cotton picking sack of canvas or like material whose lower end and bottom side is cut away and replaced with a corresponding strip of rubber which is stitched in place at its marginal edges.

1,782,355. FRUIT-PICKING BAG. PAUL V. KINNEY, Austin, Colo., assignor to MacIntyre-Fishback Mfg. Co., Pueblo, Colo., a Corporation of Colorado. Filed Nov. 17, 1928. Serial No. 320,160. 1 Claim. (Cl. 150—2.)

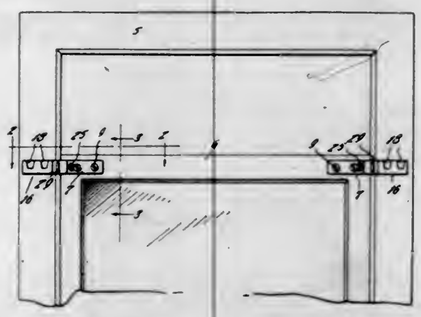


A fruit gathering garment including a body forming a blouse and provided with means for gathering the lower edge closely about the body of the wearer, a delivery tube extending from the lower front portion of the body and foldable forwardly and upwardly against the front of the body, buttons on the underside of said tube to lie in front of the tube upon the latter being folded upwardly, and tabs depending from the shoulder portions of the blouse and carrying loops engageable with said buttons.

1,782,356. MANUFACTURE OF ACID DYESTUFFS OF THE PHENONAPHTHOSAFRANINE SERIES. PAUL LAEUGER, Basel, Switzerland, assignor to the Firm J. R. Geigy S. A., Basel, Switzerland. Filed Oct. 25, 1928, Serial No. 315,102, and in Germany Nov. 14, 1927. 5 Claims. (Cl. 260—29.)

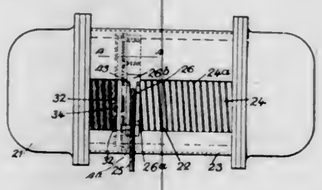
1. A process for the manufacture of acid dyestuffs fast to alkali of the phenonaphthosafranine series, consisting in condensing an unsymmetrical N-alkylated para-phenylene-diamine-sulphonic acid having a sulpho group in ortho-position with respect to the primary amino-group with a phenonaphthazonium sulphonic acid having an alkyl group attached to the mesoazine-nitrogen atom.

1,782,357. WINDOW-SHADE HOLDER. ARTHUR F. LAMOUREUX and PETER SELLAS, Norwich, Conn. Filed Dec. 18, 1928. Serial No. 326,737. 5 Claims. (Cl. 156—24.)



1. A device of the class described comprising a primary bracket member of L-shaped formation to provide an arm adapted to be secured to the upper rail of a sash and an arm projecting at right angles outwardly therefrom, and a secondary bracket member of L-shaped formation including one arm hollowed to telescope over said other arm of the primary bracket and another arm extending at right angles thereto and outwardly therefrom, means for supporting a window shade from the said other arm of the secondary bracket, said other arm of the secondary bracket including pockets, shanks having heads seated in the pockets, said shanks adapted to have curtain poles telescoped thereover, a screw threaded through said other arm of the primary bracket member for engaging a window frame frictionally.

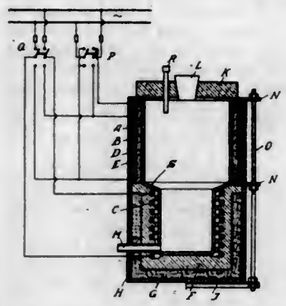
1,782,358. WINCH DRUM. ANTON LANG, Feldkirchen, near Munich, Germany, assignor of one-half to Demag Aktiengeselischaft, Duisburg, Germany, and one-half to Maschinenfabrik Fr. Schülle & Co., Feldkirchen, near Munich, Germany. Filed Oct. 31, 1928, Serial No. 316,193, and in Germany Dec. 30, 1926. 2 Claims. (Cl. 242—158.)



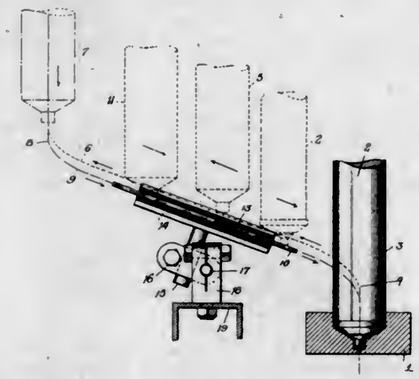
1. The combination with a winch drum having a groove in its periphery, of a rope guide having a part engaging said groove, said guide being movable axially of the drum as the latter rotates, means for preventing said guide from rotating with the drum, and a gripping ring bearing upon the rope coils adjacent the guide and rotatable with the drum, said ring being interlocked with the guide so as to move therewith axially of the drum.

1,782,359. ELECTRIC MELTING FURNACE. FRANZ LINNHOFF, Eberswalde, Germany, assignor to Ajax Electrothermic Corporation, Ajax Park, Ewing Township, N. J., a Corporation of New Jersey. Filed Feb. 7, 1929, Serial No. 338,205, and in Germany Feb. 11, 1928. 7 Claims. (Cl. 266—1.5.)

6. In an electric furnace, a furnace shell having upper and lower charge receiving portions, heat insulation about the upper portions, a furnace inductor about the heat insulation, connections for supplying current to the inductor, a furnace resistor surrounding the lower portion of the furnace having relatively high resistance and correspondingly low inductive effect, heat insulation about the resistor confining the heat of the resistor against the furnace shell and connections for supplying electric current to the resistor.



1,782,360. AUTOMATIC STOP FOR EXTRUDING MACHINES. FRANK J. LYNCH, Hillside, N. J., assignor to The Sun Tube Corporation, Hillside, N. J., a Corporation of New Jersey. Filed Mar. 29, 1928. Serial No. 265,684. 7 Claims. (Cl. 192—125.)

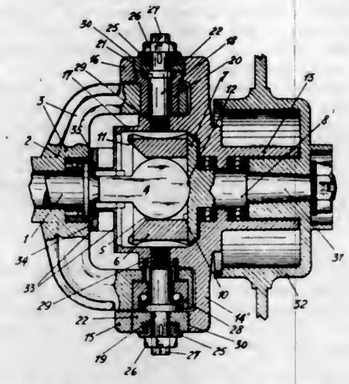


2. An automatic electrical stop for extruding machines provided with a plunger adapted to carry a metal object, including a switch interposed in the circuit of the motor of the extruding machine, an electro-magnetic structure for opening said switch and a circuit for said electro-magnetic structure, including a contact rail positioned near the path of movement of the plunger of the extruding machine whereby when a metallic object carried by the plunger contacts with said rail at any point said circuit will be closed.

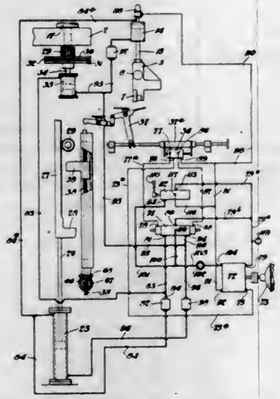
1,782,361. FRONT-WHEEL-DRIVING JOINT WITH STEERING SWIVEL FOR MOTOR VEHICLES. CURT MATSCHEI, Wettingen, Switzerland. Filed Aug. 20, 1927, Serial No. 214,338, and in Switzerland Jan. 13, 1927. 2 Claims. (Cl. 180—43.)

1. In a motor vehicle a stub axle mount comprising in combination a steering swivel having a hub portion and a fork-shaped portion, threaded bores in the arms of the fork, hollow locking nuts positioned in said bores, pivot bolts arranged one in each of said nuts, teeth arranged in the inner portions of said nuts, a locking disk on each bolt having teeth in its outer circumference designed to engage with the teeth in its outer circumference designed to engage with the teeth of said nuts, a cylindrical casing on said swivel extending between said arms and provided with threaded openings in alinement with said threaded bores, said openings adapted to receive the free ends of said bolts.

CARNEGIE LIBRARY OF ATLANTA



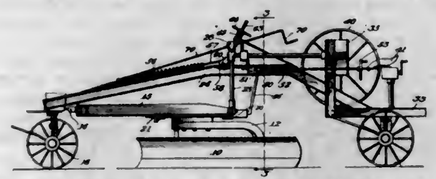
1,782,362. SHEARS. ARTHUR R. MCARTHUR, Gary, Ind.; Mattie Lee McArthur executrix of said Arthur R. McArthur, deceased. Filed Nov. 30, 1928. Serial No. 322,719. 5 Claims. (Cl. 164—56.)



1. An automatic cutting-up shear for shearing strips into a plurality of short lengths of equal weight, comprising a shear-head, hydraulic means for operating said shear-head, a plurality of feed-in rolls for feeding the strip to be sheared through said shear in a step-by-step manner, hydraulic means for operating said feed-in rolls, means operable by said feed-in roll operating means for releasing the fluid pressure to said feed-in roll operating means and for supplying fluid pressure to said shear-head operating means, and means operable by said shear-head for releasing the fluid pressure to said shear-head operating means and for supplying fluid pressure to said feed-in roll operating means.

1,782,363. LIFTING ATTACHMENT FOR ROAD GRADERS. ANDREW J. MONROE and GEORGE W. MONROE, Arthur, Ill. Filed Sept. 6, 1929. Serial No. 390,773. 1 Claim. (Cl. 37—156.)

A lifting device for road graders including a main frame supported by wheels, an auxiliary frame movably mounted on the main frame, a blade carried by the auxiliary frame, means to raise and lower the blade, a spring secured to the main frame, a flexible element connecting the spring to the auxiliary frame, a bracket secured to the main frame and having an opening, an operating rod extending through said opening, a pulley carried by the rod and having the flexible element trained thereover, a hand wheel threaded to said rod and adapted to be adjusted towards and from the bracket, and tension means between the hand wheel and the bracket.

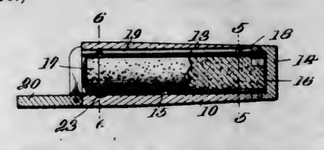


1,782,364. WRENCH. JOHN NATION, Highmore, S. Dak. Filed Oct. 26, 1928. Serial No. 315,243. 1 Claim. (Cl. 81—79.)



A wrench comprising, a pair of substantially parallel handle members having oppositely inclined anchor portions intersecting each other and pivotally connected together, one of said anchor portions merging at its forward end into a jaw member extending in a plane substantially parallel to the longitudinal plane of the handle member with which the anchor portion merging into the jaw member is formed, said jaw member being formed at its forward end with an upturned portion whereby the jaw member is provided with an angular gripping face disposed forwardly of and in spaced relation to the anchor portion merging thereinto, teeth provided on the upturned portion of said gripping face, the other of said anchor portions merging at its forward end into a jaw member extending in a plane substantially parallel to the longitudinal plane of the other handle member and having a flat face formed adjacent its forward end with an angular recess to provide an angular gripping face at the forward end of said last named jaw member and merging into the flat face thereof in spaced relation to the inclined anchor portion merging thereinto.

1,782,365. LIP-STICK HOLDER. GORDON W. NELSON and ALBERT F. CERES, Jr., Philadelphia, Pa. Filed Sept. 27, 1929. Serial No. 395,603. 8 Claims. (Cl. 206—56.)

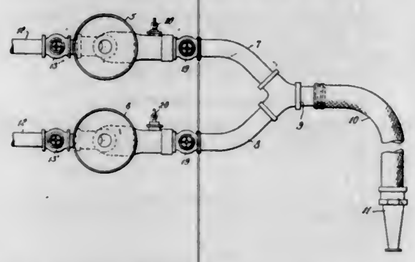


1. A holder for rouge stick or the like comprising a casing having an open end and a closure therefor hinged to said casing, a rouge stick carrier within said casing, said closure effective when opened to form a guide or guard projecting longitudinally from the open end.

1,782,366. METHOD OF AND APPARATUS FOR PRODUCING FIRE-EXTINGUISHING FOAM. WALTER PALMER, Chester, Pa., assignor to Amdyco Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 7, 1925. Serial No. 61,004. 4 Claims. (Cl. 169—15.)

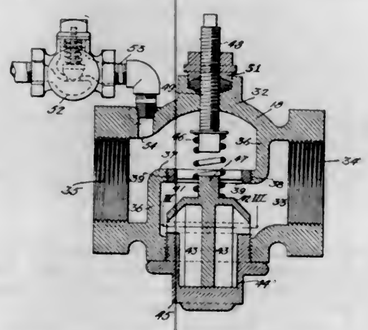
1. The method of producing and delivering fire-extinguishing foam which consists in establishing separate

streams of water in suitable conduits, continuously and simultaneously delivering from separate and external sources by the suction effect produced by the streams a dry material including as a reacting chemical only an acid reagent into one stream and a dry material including as a reacting chemical only a basic reagent into the other in proportions substantially constant with respect to each other and to the flow of water, one of the reagents including a foam-stabilizer, mingling the separate streams to permit initial reaction of the acid and basic reagents thereby producing foam, and conveying the mixture of foam and undissolved particles of the reagents through a conduit to the point of discharge of the foam.



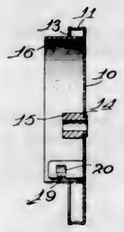
2. An apparatus for producing fire extinguishing foam, comprising at least two conduits communicating with a common source of water supply for conducting water toward a point of discharge, one of the conduits having a sole hopper from which a dry foam reagent is delivered directly into the flowing water in the conduit, an ejector for causing the dry reagent to be drawn into the water by suction, hopper means from which another dry foam reagent and a foam stabilizer are delivered directly into the flowing water in another of the conduits, and ejector means for causing said second dry reagent and the stabilizer to be drawn into the water in the conduit by suction, the hopper and ejector and the hopper means and ejector means including means to effect the delivery of the reagents in proportions substantially constant with respect to each other and to the flow of water, said conduits converging together and being joined into a single conduit at the side of the hoppers opposite to the water supply to permit the initial intermingling of the reagents in the presence of the foam stabilizer.

1,782,367. OVERFLOW VALVE FOR STEAM HYDRAULIC SYSTEMS. WILLIAM H. RIDGWAY, Coatesville, Pa., assignor to William H. Ridgway and Ellis B. Ridgway, Coatesville, Pa. Original application filed June 1, 1923, Serial No. 642,800. Divided and this application filed Jan. 20, 1927. Serial No. 162,386. 2 Claims. (Cl. 277—61.)



1. A valve comprising a valve casing having a passageway terminating in inlet and outlet openings, a partition having an opening therein intercepting said passageway, said partition being formed to constitute a valve seat, the portion of said casing beneath said opening being provided with a pocket, a valve element having one end slidably mounted in said pocket and the other end provided with a valve disk normally spaced from said valve seat, means for resiliently maintaining said valve disk in said last-mentioned position, the valve element being actuated to cause said valve disk to engage said valve seat only when the pressure of a fluid medium supplied to said valve inlet opening exceeds a predetermined value, and a check valve communicating with the atmosphere and having an operative connection with said casing immediately adjacent to said outlet opening for avoiding vacuum effects on the operation of said movable valve element.

1,782,368. RADIO TUNING MECHANISM. CHARLES SCHEIBEL, Chicago, Ill., assignor to Crowe Name Plate & Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed Aug. 13, 1930. Serial No. 475,025. 8 Claims. (Cl. 116—124.3.)



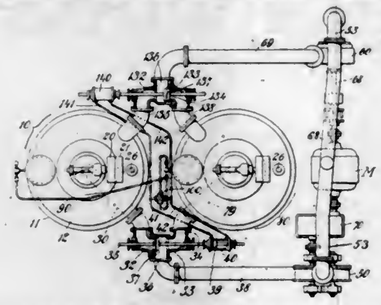
1. A radio drum tuning dial having a concaved peripheral edge.

1,782,369. GARAGE-RAMP SYSTEM. HORACE L. SMITH, Jr., Richmond, Va., assignor, by mesne assignments, to Auto Ramps Corporation, Richmond, Va., a Corporation of Virginia. Filed Nov. 30, 1926. Serial No. 151,754. 3 Claims. (Cl. 20—1.13.)



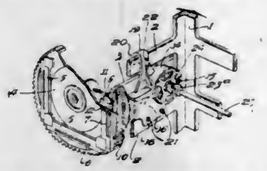
1. In a garage building superimposed horizontal storage floors spaced to provide full head room between the successive floors, a ramp structure providing separate automobile driveways for ingress to and egress from the successive floors of the building, said ramp structure comprising two superimposed substantially continuous helical driveways having a common vertical axis, the outer radius of said driveways being just greater than the turning radius of greatest amplitude of the cars the building is designed to accommodate, the inner radius of said ramps being just less than said turning radius, and the middle lines of said driveways being throughout the length of the driveways at the same distance from the vertical axis, said distance being such that automobiles can traverse the length of the ramp without change in the position of their steering wheels.

1,782,370. APPARATUS FOR PREPARING VISCOUS MIXTURES. WILLIAM LEIGH SMITH, Brandywine Summit, Pa., assignor to The Viscose Company, Marcus Hook, Pa., a Corporation of Pennsylvania. Filed Aug. 17, 1929. Serial No. 386,727. 9 Claims. (Cl. 259—1.)



1. In an apparatus for preparing viscous mixtures, the combination of a plurality of mixing tanks, an outlet valve adapted to let the mixtures flow out of any one of said tanks, outlet conduits leading from said tanks to said outlet valve, a pump, a conduit leading from said valve to said pump, a grinding mill, a reentry valve adapted to direct the mixtures back into any other of said tanks, a conduit leading from said pump to said mill and a conduit leading from said mill to said reentry valve, conduits leading from said reentry valve to said tanks, one of said tanks also having a valved discharge conduit, said conduits and valves being constructed and operable in such a way that the mixture may be lead through said apparatus as many times as desired.

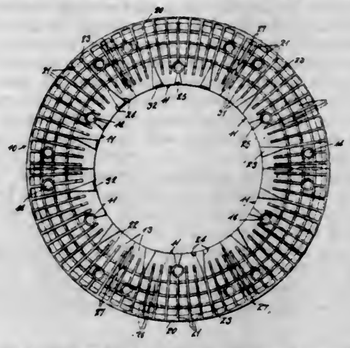
1,782,371. MOLD-COOLING DEVICE FOR LINE-CASTING MACHINES. SAMUEL E. SPERRY, Hollis, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 5, 1929. Serial No. 397,627. 9 Claims. (Cl. 199—56.)



1. In a line casting machine having a mold provided with a cavity for casting type bars therein, an air blower having a discharge mouth opposite to the rear face of the mold for directing a blast of air against the rear face of the mold substantially in the plane of the mold cavity.

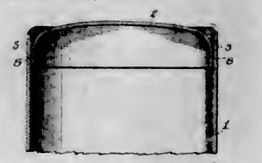
1,782,372. BURR PLATE. WILLIAM M. TOMASHEK, Winona, Minn., assignor to Winona Attrition Mill Company, Winona, Minn., a Corporation of Minnesota. Filed Aug. 15, 1929. Serial No. 386,030. 5 Claims. (Cl. 83—3.)

1. A burr plate comprising an annular member having a peripheral flange and a plurality of relatively closely spaced radial ribs flush with the edge of said flange, the surface of said member sloping outwardly to the outer edge of said flange, a plurality of circular ribs extending between said radial ribs, of less height than said



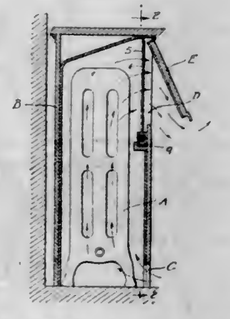
radial ribs and describing circles unbroken except by intersection by radial ribs, certain of said radial ribs having circumferentially widened inner ends.

1,782,373. METHOD OF WELDING COPPER BOILER HEADS. ALBERT H. TRAGESER and LOUIS HASSINGER, New York, N. Y., assignors to John Trageser Steam Copper Works, Maspeth, N. Y., a Corporation of New York. Filed Oct. 29, 1929. Serial No. 403,333. 4 Claims. (Cl. 219—10.)



1. The method of welding and brazing the head on a copper boiler, consisting in fitting the head into the end portion of the shell and boiler, so that part of the shell of the boiler will project beyond the head, supplying a quantity of spelter solder in the pocket provided between the projecting portion of the shell and the head, and then applying heat by an electric torch to the portion of the shell projecting beyond the head, said torch being maintained in position until a large part of the projecting portion of the shell is melted and all of the solder melted and caused to merge into one substantially homogeneous mass with the edge portion of the shell and the edge portion of the head.

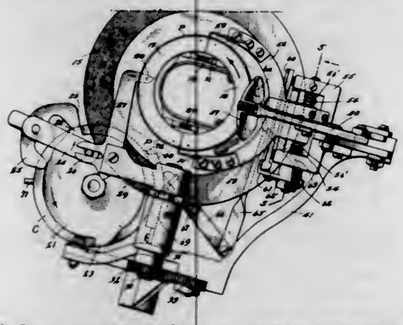
1,782,374. AIR-FILTERING DEVICE FOR HEATING APPARATUS. JOHN A. WALLS, Baltimore, Md. Filed Mar. 12, 1929. Serial No. 346,442. 1 Claim. (Cl. 183—51.)



In an apparatus of the character described and for the purpose set forth, a casing including front, rear and

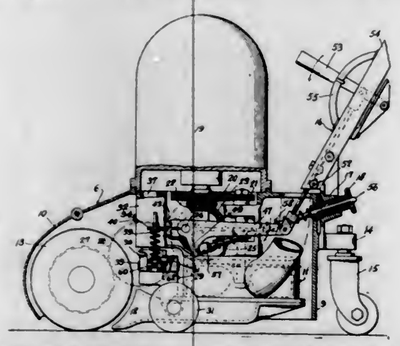
side walls, the front wall having a cold air intake opening adjacent its lower end and a heated air outlet opening adjacent its upper end and means arranged within one of said openings for filtering and treating the air circulated therethrough, said means comprising a foraminous absorbent filtering panel and a receptacle in which the lower end of the filtering panel is immersed for absorbing a liquid contained in the receptacle, means for removably supporting the filtering panel in juxtaposition to the heated air outlet opening and the receptacle consisting of a supporting frame for the panel formed at its upper end with laterally projecting trunnions, the said side walls of the casing adjacent the upper ends of the heated air outlet opening having inwardly extending grooves for receiving the trunnions and a closure element hinged to the casing adjacent the upper end of the opening for intersecting the grooved portions of the side walls when the closure element is in a normal position, whereby to retain the panel frame and panel against accidental displacement.

1,782,375. LOOP RETAINER AND MECHANISM THEREFOR. LOUIS N. D. WILLIAMS, Ogontz, Pa., and HARRY SWINGLEHURST, Jr., Brooklyn, N. Y., assignors to Scott & Williams, Incorporated, New York, N. Y., a Corporation of Massachusetts. Filed Sept. 11, 1928. Serial No. 305,206. 19 Claims. (Cl. 112—27.)



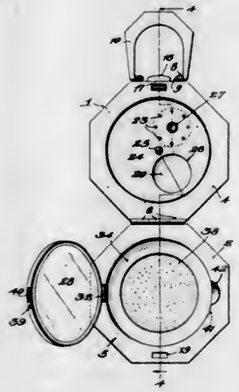
1. In a looping machine, a foldable segmental point carrier and a loop retainer adapted to extend transversely of said carrier between the end points of the carrier segments, said retainer comprising an end portion adapted to extend on the fabric side of the points above and below the level of the tips of the points.

1,782,376. ROTARY DRUM MACHINE. HARRY H. WOLFE and HARRY L. MYERS, Toledo, Ohio, assignors to The American Floor Surfacing Machine Company, Toledo, Ohio. Filed Jan. 12, 1928. Serial No. 246,198. 8 Claims. (Cl. 51—176.)



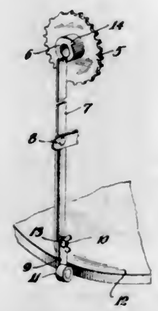
8. In a surfacing machine of the class described, a body, a horizontal rotary surface treating drum mounted on the forward end portion of the body, a guiding and supporting caster swivelly mounted on the rear end portion of the body, a motor supported on top of the body between the caster and drum, a handle fastened to the rear end portion of the body adjacent said caster, a wheeled truck, and mounting and adjusting means for the truck connected to the body and serving to permit the truck to be gradually adjusted in a step by step manner, together with spring means associated with the truck and said mounting means to aid in the adjustment of the truck and render the truck substantially self-leveling.

1,782,377. VANITY CASE. LOUIS A. ANDERSON, Attleboro, Mass., assignor to R. & G. Company, Attleboro, Mass. Filed May 8, 1929. Serial No. 361,323. 7 Claims. (Cl. 132—83.)



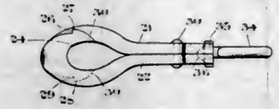
1. In a vanity case, a member having a mirror seat, and having spaced struck-out ears which extend upwardly from said member and which form an opening, a pin headed at its ends into engagement with the ears, and a mirror frame receivable on said seat and formed with an extension which is received in said opening and which is rolled about said pin in the space between the ears.

1,782,378. ALARM DEVICE. EMIL BAHR, Dean, Mont. Filed Oct. 18, 1927. Serial No. 226,876. 1 Claim. (Cl. 58—14.)



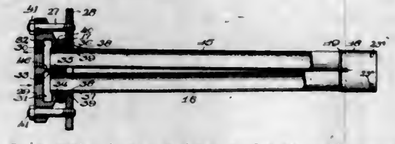
A releasing mechanism for a phonograph record by a clock at a predetermined time, comprising a friction roller normally serving as a brake to retard the movement of the record, a link to which said roller is attached, a lever, a wing nut for clamping said link, normally to said lever, allowing upon its release the normal playing of said record, a cam connected with the works of said clock having a shoulder formed therewith, adapted to be engaged by the upper end of said lever at a certain predetermined time, and a pivot for said lever intermediate its ends allowing a swinging of the lever thereabout to release the brake roller from said record upon engagement of its upper end with the cam shoulder to gradually wake a sleeper by the playing of said record.

1,782,379. SNAP HOOK. WILLIAM R. COOPER, Huntingdon, Quebec, Canada, and HERBERT QUICK, New York, N. Y. Filed Feb. 11, 1929, Serial No. 339,120. Renewed Oct. 16, 1930. 6 Claims. (Cl. 24—232.)



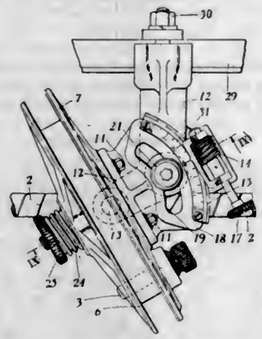
1. A snap hook comprising a pair of pivotally connected shank members each having an eye at one end and a hooked portion at the other end substantially at right angles to the transverse axis of the eyes, an eye bolt passing through recesses formed in the eye portion, and a nut having a curved surface fitting into a curved recess in the eye adapted to force the members together when load is applied to the hook portions.

1,782,380. UNRESTRICTED-RETURN WATER HEATER. WALTER A. DALEY, Chicago, Ill., assignor to Bell & Gossett Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 23, 1927. Serial No. 186,061. 6 Claims. (Cl. 257—248.)



1. In a water heater a heat exchange unit comprising a group of tubes one end of which tubes being united in a casing, comprising a deformed length of tubing with a closure for its rear end and the other ends of which tubes are united by a transverse plate.

1,782,381. MEANS FOR THE APPLICATION OF INSULATING MATERIAL IN THE FORM OF STRIPS TO ELECTRIC CONDUCTORS. PERCY DUNSHEATH, London, England, assignor to W. T. Henley's Telegraph Works Company, Limited, London, England, a British Company. Filed Apr. 22, 1930, Serial No. 446,368, and in Great Britain May 10, 1929. 5 Claims. (Cl. 117—41.)



1. Apparatus for applying material in the form of strip to an electric conductor, comprising a carrier for a flat coil of the material, a guide round which the strip passes from the coil to the conductor, means for supporting said carrier and guide in fixed relation to each other and rotatable about the conductor, said supporting means comprising a pivotal mounting of the coil and guide providing adjustment of their positions by turning about an axis which is radial to the conductor and which passes through a point at which the strip makes contact with the conductor as it comes from the guide.

1,782,382. PROCESS FOR THE MANUFACTURE OF PAPER FROM PLANT FIBER. HEINRICH EGGERS, Bremen-Weser, Germany, assignor of five per cent to Alexander Orgovan and five per cent to Otto S. Leszay, New York, and five per cent to Irving Matusoff, Brooklyn, N. Y. Filed Jan. 4, 1929, Serial No. 330,413. Renewed Oct. 17, 1930. 4 Claims. (Cl. 92—13.)

1. A process for making paper from the fibrous material of plants, which process consists of subjecting the said material, together with a mixture of waste paper and powdered chalk to the action of a solution of caustic soda in a closed converter and under a greater than atmospheric pressure.

1,782,383. HEAT-INSULATING MATERIAL AND PROCESS OF MANUFACTURE. HAROLD W. GREIDER, Plymouth Meeting, Pa., assignor to The Philip Carey Manufacturing Company, a Corporation of Ohio. Filed Feb. 19, 1926. Serial No. 89,494. 16 Claims. (25—155.)

2. Heat insulation material molded under pressure with expulsion of water in filter-molds from a semi-fluid water mix before substantial setting of the ingredients of the mix by chemical reaction, comprising finely-divided solid ingredients thickly interspersed with minute dried bubbles of a gaseous emulsion, the material surrounding the multiplicity of voids created in said insulation by said dried bubbles containing minute quantities of a film-forming and stabilizing agent.

7. In a process of making heat insulation material wherein finely-divided solid ingredients are mixed with water to form a semi-fluid mix, air or other gas being introduced in water of the mix prior to molding the mix, the mix is molded in filter-molds under pressure with expulsion of water, and the molded forms are thereafter dried, the step comprising including in water of the mix a gas-emulsifying agent and emulsifying said gas when introduced in said water of the mix so as to form a stable gaseous emulsion of minute pressure-resisting bubbles in said mix prior to molding said mix, a multiplicity of said bubbles of emulsified gas being substantially retained during said molding under pressure in filter-molds and a multiplicity of thickly interspersed minute voids being created in the dried product by said retained bubbles of said gaseous emulsion.

1,782,384. POROUS MATERIAL AND THE MANUFACTURING PROCESS THEREOF. HAROLD W. GREIDER, Plymouth Meeting, Pa., assignor to The Philip Carey Manufacturing Company, a Corporation of Ohio. Original application filed Apr. 18, 1928, Serial No. 271,108. Divided and this application filed June 27, 1929. Serial No. 374,273. 4 Claims. (Cl. 18—47.5.)

2. The process of making molded heat insulation material of high micro-porosity comprising mixing light finely-divided and/or fibrous inorganic materials with water to form a semi-fluid or plastic water mix, dissolving alkali in the water of mix, generating gas therein by incorporating finely-divided calcium carbide coated with an oily, resinous, waxy, or organic fatty acid substance, forming a relatively stable foam of minute bubbles containing said gas stabilized by the bubble-forming and stabilizing agent formed by the reaction of the oily, resinous, waxy, or organic fatty acid substance with the alkali of the mix, and molding the mass under pressure with expulsion of water from the mold.

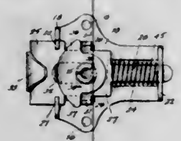
1,782,385. TOY AIRPLANE. WILLIAM KRAMER, Richmond Hill, N. Y., assignor to Ideal Aeroplane & Supply Co., Inc., New York, N. Y., a Corporation of New York. Filed June 26, 1929. Serial No. 373,732. 9 Claims. (Cl. 46—50.)



7. The combination, in a top airplane, of a fuselage composed of spaced side walls of stiff material, said walls having slots therein, and a series of sheet metallic bulkheads fitted between said walls, said bulkheads provided with flanges to lie against said walls, and tongues cut from said flanges to penetrate the slots through said walls, and to clamp against the outer surfaces of said walls.

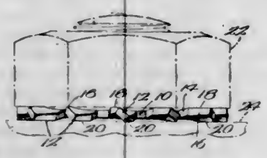
8. The combination in a top airplane having a fuselage, of landing gear therefor comprising resilient sheet material members engaging the fuselage in spaced relation, an axle carrying wheels, said axle penetrating bearing holes in said members, and shoulders on said axle to tensionally spread apart said members, thereby increasing the distance separating them at their lower portions.

1,782,386. CABINET LATCH. RAYMOND G. MOORE and ARTHUR CLAUD-MANTLE, Bridgeport, Conn., assignors to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed May 23, 1928. Serial No. 279,864. 4 Claims. (Cl. 292—169.)



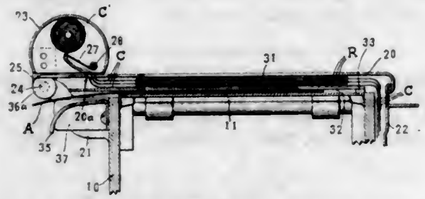
1. In a latch for a movable closure or the like, an attaching plate, a tubular handle guide secured to said plate and adapted to be inserted in a hole in the closure, a reciprocating latch bolt mounted on said plate having an elongated longitudinal slot, a rotary handle member engaged in said guide and extending through said slot, and an oscillatory plate secured to said handle member and adapted upon movement in either direction to retract said bolt.

1,782,387. LOCK WASHER. CARL G. OLSON, Chicago, Ill., assignor to Shakeproof Lock Washer Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 5, 1928. Serial No. 323,838. 12 Claims. (Cl. 151—35.)



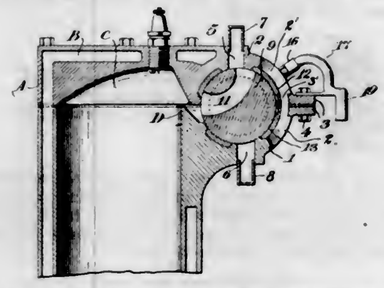
9. A lock washer having a body portion, a locking prong extending therefrom, the outer end of which is narrower than the root thereof, said prong being progressively twisted out of the plane of the washer stock.

1,782,388. MANIFOLDING DEVICE. WILLIAM A. PRINGLE and LOUIS FRED HAGEMANN, Niagara Falls, N. Y., assignors to American Sales Book Company, Limited, Toronto, Canada, a Corporation of Ontario, Canada. Filed Dec. 13, 1927. Serial No. 239,648. 18 Claims. (Cl. 282—5.)



1. In a manifolding device, in combination, means for feeding a traveller record strip and supporting it in position for reception of an inscription, supporting means for supporting transfer material with parts thereof in transfer relation with the record strip, a support for supporting an auxiliary record card for independent insertion into manifolding relation with said traveller record strip and transfer material and for independent removal from manifolding position, and a passageway opening laterally at the outside of one side of the manifolding device for insertion or removal of said card to and from manifolding position on said support.

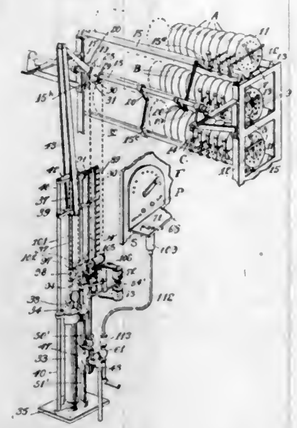
1,782,389. ROTARY VALVE. JOHN M. RAUHA, Jr., and ALEX MATTSON, Owen, Wis. Filed Dec. 24, 1927. Serial No. 242,448. 3 Claims. (Cl. 123—190.)



1. The combination with an internal combustion engine having a removable head, a valve casing including an upper section formed with the head, a lower section formed with the block of the engine, said valve casing being grooved to provide air spaces extending therethrough, a cylinder valve arranged in said casing, enlargements formed with said cylindrical valve and being provided with arcuate shape passages adapted to communicate with passages to the cylinders of the engine and passages to the exhaust and intake manifolds of the engine, and means for oiling the valve, flanges formed with the sections of the valve casing and having bores registering with the grooves, and said grooves, bores and oiling means being adapted to retain the valve in a cool condition.

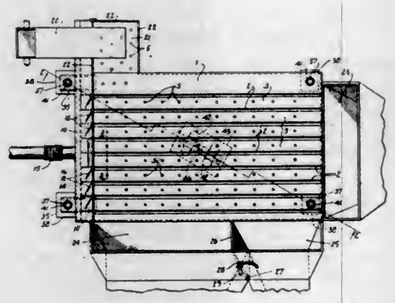
1,782,390. ACTUATING MEANS FOR ELECTRIC-LIGHT DIMMERS. HARRY J. ATTICKS and JOSEPH G. SALTZMAN, New York, N. Y. Filed May 17, 1927. Serial No. 192,149. 2 Claims. (Cl. 175—312.)

1. In a mechanism of the character described, in combination with at least one electric light dimmer of the type including a plurality of stationary contacts and a movable contact member frictionally engaging the stationary contacts, means for operating said dimmer comprising a hydraulic fluid operated device, means for transmitting power from said device to the movable contact of said dimmer and means for variably controlling the rate of flow of motive fluid through said device whereby the rate of operation of said dimmer may be variably controlled and undesirable changes in the rate of operation of



said dimmer due to variations in the friction between the movable contact and the stationary contacts of said dimmer are avoided.

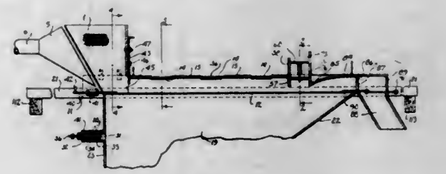
1,782,391. PROCESS AND MECHANISM FOR SEPARATING INTERMIXED MATERIALS. KENNETH DAVIS, Ebensburg, Pa., assignor, by mesne assignments, to Peale-Davis Company, Wilmington, Del., a Corporation of Delaware. Filed Jan. 31, 1922, Serial No. 532,978. Renewed Dec. 20, 1928. 16 Claims. (Cl. 209—467.)



1. A mechanism for separating intermixed divided materials, comprising in combination an air pervious table having longitudinally extending partitions thereon, means for supporting the table in a diagonally inclined position so that the materials tend to travel across the partitions, said supporting means including resilient means, carrying the weight of the table, for resiliently supporting it, means for forcing air through the table, and means for vibrating the table in a direction substantially perpendicular thereto.

12. The process of separating intermixed divided materials which comprises maintaining a bed of materials in continuous progression along an air-pervious table, subjecting the materials to vibration and upwardly-directed, lifting air currents to stratify the materials according to their specific gravities, impelling a settled heavier material to discharge and permitting a flotant stratum of lighter material to progress unrestrictedly to discharge transversely of the settled heavier material, and regulating the air supplied to the bed of materials in independently controlled areas both laterally and longitudinally of the table.

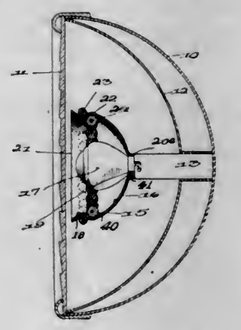
1,782,392. PROCESS AND MECHANISM FOR SEPARATING INTERMIXED MATERIALS. KENNETH DAVIS, Ebensburg, Pa., assignor, by mesne assignments, to Peale-Davis Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 4, 1922, Serial No. 541,123. Renewed Dec. 17, 1928. 32 Claims. (Cl. 209—467.)



1. A mechanism for separating intermixed divided materials of different specific gravities, including in combination a bed bottom having sides for maintaining therebetween a bed of materials of substantial depth, means for separating the materials in the bed and for discharging a heavier material from the bottom of the bed, and means for discharging a lighter material from the upper part of the bed along the side edge thereof by the use of a laterally flowing current of air.

18. The process of separating intermixed divided materials which comprises vertically confining a bed of the material and subjecting it to a flow of air under pressure from beneath to separate and stratify the materials and then directing the air current laterally to discharge the lighter and superior separated material from the bed, and subjecting the forward part of said superior and lighter material to a backwardly moving current of air to insure complete separation and discharge of the lighter material.

1,782,393. ANTIGLARE DEVICE. FRANK A. TREIBER, Cumberland, Md. Filed June 21, 1930. Serial No. 462,900. 5 Claims. (Cl. 240—48.6.)



1. The combination with a light projector including a source of light, of a partially translucent shield fitted about said source and having an annular shoulder about its forward portion and an annular refractive device surrounding said shoulder.

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office

Vol. 400—No. 4 TUESDAY, NOVEMBER 25, 1930 Price—$10 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscription, $10.00 per annum; including annual indexes, $11.50; single numbers, 25 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or concerning TRADE-MARKS, PRINTS, and LABELS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

CONTENTS

	Page
Issue of November 25, 1930	675
Adjudicated Patents	675
Communications to The Patent Office	675
Important Information	675
Notice Regarding Payment of Fees	675
Notice—Attorney's Address	675
Applications Under Examination	676
Decisions of the Board of Appeals—	
Ex parte Dosch	677
Decisions of the U. S. Courts—	
In re Bronson	678
In re Engelhardt	678
Patent Suits	681
Trade-Marks Published (188 Applications)	683
Trade-Mark Registrations Granted	707
Trade-Mark Registrations Renewed	715
Labels	717
Prints	718
Reissues	719
Designs	721
Patents Granted	732

Issue of November 25, 1930

Trade-Marks	210	No. 277,651 to No. 277,860,	inclusive.
T. M. Renewals	78		
Labels	42	No. 38,271 to No. 38,312,	inclusive.
Prints	4	No. 12,824 to No. 12,827,	inclusive.
Reissues	11	No. 17,877 to No. 17,887,	inclusive.
Designs	52	No. 82,596 to No. 82,647,	inclusive.
Patents	779	No. 1,782,394 to No. 1,783,172,	inclusive.
Total	1,176		

Adjudicated Patents

(C. C. A. Mich.) Ward and Taylor patent, No. 1,104,589, for gear-grinding machine, *Held* infringed. *Reo Motor Car. Co.* v. *Gear Grinding Machine Co.* 42 F.(2d) 965.

(C. C. A. Mich.) Ward patent, No 1,155,532, for trimming mechanism for grinder wheels of shaft-grinding machines, *Held* infringed. *Id.*

(C. C. A. Mich.) Ward patent, No. 1,271,495, for method of grinding spline shafts and other interrupted cylindrical bodies, claims 3 and 5, *Held* infringed. *Id.*

(C. C. A. Pa.) Daily patent, No. 1,580,651, for radiator, claims 1, 2, and 3, *Held* valid and infringed. *James B. Clow and Sons* v. *Automatic Gas-Steam Radiator Company*, 42 F.(2d) 1016.

Communications to the Patent Office

Rule 8. A separate letter should in every case be written in relation to each distinct subject of inquiry or application. Assignments for record, final fees, and orders for copies or abstracts must be sent to the Office in separate letters.

Important Information

In ordering manuscript copies much time will be saved if the order states specifically what is desired, viz:

Application as originally filed. (Petition, specification, oath, and drawings as received.) Application as amended. (Petition, specification, oath, and drawings with amendments entered.)

Application as allowed. (Petition, specification, oath, and drawings as passed by the Examiner for issue.)

Original application. (Facsimile petition, specification, oath, and drawings at present time.)

Specification as originally filed. (As received in Office.)

Specification as amended. (With amendments entered.)

Specification as allowed. (As passed by the Examiner for issue.)

Original specification. (Facsimile at present time.)

File-wrapper. (File-wrapper only.)

File-wrapper and contents. (File-wrapper, contents of record, including photoprints of any tracings or of prints within file-wrapper. In patented-cases, printed copy of the specification and drawings of the patent is furnished.)

File-wrapper, contents, and drawings. (File-wrapper and all of the contents of record, including photoprints of any tracings, exhibits, or prints within the file-wrapper. In pending cases, photoprints of the pending drawings only, omitting any canceled. If patented, copy of the specification and drawings of the patent being furnished, photoprints are not made of the original drawings unless specially ordered. If canceled drawings are wanted, they must also be specially ordered.)

Assignment. (Give the liber and page of the record as well as the name of the inventor.)

Printed publications in possession of the Office. (Give title and date of publication, also page and exact portion to be copied.)

Orders for copies of any other records not mentioned above must state specifically the exact paper to be copied.

Notice Regarding Payment of Fees

All fees must be paid in advance. Payment of money required for Office fees *must* be made in specie, Treasury notes, national-bank notes, post-office money orders, or certified checks. Money orders and checks must be made payable to the "Commissioner of Patents." Money sent by mail to the Patent Office will be at the risk of the sender. (See Rule 194.)

Certified checks, bank drafts, express and foreign money orders must be immediately negotiable in this country and for the full amount of the fee required by the Patent Office. No allowance can be made by this Office for any charge for their collection or exchange. Postage stamps will not be accepted. Failure to comply with the above instructions will cause delay.

Notice—Attorney's Address

Many letters are being returned to this Office for lack of street address. The attorney's full post-office address should be given in every power of attorney. The prompt delivery of communications will thereby be facilitated.

Condition of Applications Under Examination at Close of Business November 14, 1930

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 111,894: Trade-Mark Division, 1,262. Oldest new case, Jan. 15, 1930; oldest amended, Jan. 16, 1930.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	Mar. 20	Apr. 4	1,155
126	2. HADEN, C. F., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Velocipedes.	Feb. 15	Feb. 15	1,806
331	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	Mar. 27	Aug. 2	1,281
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	Apr. 8	Apr. 7	1,278
108*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	Mar. 20	Mar. 17	1,334
318	6. LEWERS, A. M., Carbon Chemistry	Jan. 30	Feb. 11	2,402
106	7. JARBOE, C. G., Optics; Photography	Feb. 4	Feb. 4	2,646
133	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Mar. 18	Apr. 1	1,710
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Apr. 15	Apr. 19	1,585
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Apr. 2	Apr. 7	1,545
148*	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Apr. 23	May 7	958
380	12. HENRY, C. C., Machine Elements	Mar. 21	Mar. 25	1,573
154*	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working: Needle and Pin Making; Turning; Boring and Drilling.	Apr. 1	Apr. 2	1,397
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working; Assembling, and Blanks and Processes.	Mar. 11	Mar. 20	1,418
329	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Jan. 29	Jan. 29	2,996
242*	16. SPENCER, C. J., Telegraphy; Telephony	Mar. 19	Apr. 21	1,231
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Feb. 14	Feb. 15	1,664
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Mar. 26	Apr. 1	1,465
236	19. KENNEDY, A. R. (Acting), Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Feb. 8	Feb. 15	2,618
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	Mar. 14	Mar. 29	1,406
212	21. THOMPSON, T. J., Textiles; Cloth Finishing	Mar. 29	June 2	897
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Mar. 20	Apr. 15	1,548
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Jan. 20	Feb. 7	1,143
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Feb. 18	Mar. 20	1,126
202*	25. BLAKELEY, C. F., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Feb. 25	Feb. 26	1,634
228*	26. HODGES, J. S., Electricity, Generation; Motive Power	Mar. 5	Mar. 12	1,179
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Mar. 14	Mar. 14	1,415
225	28. BENSON, A. R., Internal-Combustion Engines	Feb. 7	Feb. 15	2,168
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	June 9	June 24	597
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Mar. 31	Aug. 30	995
312	31. HOLMES, W. N., Distillation; Gas, Heating and Illuminating; Mineral Oils	Jan. 21	Jan. 16	2,866
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	May 14	May 19	1,425
152	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures: Roads and Pavements; Roofs; Wooden Buildings.	Apr. 14	Apr. 24	2,675
304	34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	Apr. 21	Apr. 16	969
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	June 14	June 27	1,354
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	Mar. 18	Mar. 14	2,354
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Feb. 21	Feb. 28	2,026
145	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Feb. 14	Feb. 15	1,193
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Mar. 4	Mar. 10	1,843
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	Feb. 8	Mar. 22	3,405
125	41. WHITNEY, M. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	Apr. 15	Apr. 18	1,116
223*	42. CUTTING, H. O., Electric Signaling	Mar. 15	Mar. 15	1,701
124*	43. NASH, P. N., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Mar. 14	Mar. 14	1,827
253	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	Feb. 18	Feb. 25	2,262
379	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	Feb. 8	Feb. 8	2,491
233	46. TAYLOR, M., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Mar. 22	Mar. 29	1,414
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	Feb. 26	Mar. 22	2,409
212*	48. ROEPKE, O. B., Electricity, General Applications	Feb. 20	Mar. 5	1,304
239	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	May 2	June 13	1,602
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Jan. 25	Jan. 28	3,037
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Feb. 19	Feb. 19	2,461
144	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Apr. 4	Apr. 12	2,138
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	May 31	June 4	1,074
241	54. WAITE, W. E., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Jan. 28	Jan. 28	3,008
102	55. BOWEN, S. T.—{Bread, Pastry, and Confection Making; Cutlery / Designs	Aug. 20 / Oct. 19	Aug. 27 / Oct. 29	304 / 243
309	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Feb. 17	Feb. 19	2,314
257*	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Mar. 20	Apr. 7	1,047
270*	58. DOWELL, E. F., Abrading; Typewriting	Feb. 10	Feb. 10	1,589
315	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Cement and Lime; Hides, Skins, and Leather; Fuel	Mar. 19	Mar. 19	1,876
213*	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	Jan. 23	Jan. 25	2,316
269	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Horology; Time-Controlling Apparatus.	Jan. 15	Jan. 25	2,726
245*	62 COCHRAN, W. W., Toys; Amusement Devices; Furniture; Baggage; Package and Article Carriers	Jan. 21	Jan. 23	2,829
200	63. WINKELSTEIN, A. H., Bleaching and Dyeing; Explosive, Pyrotechnic, and Match Compositions; Oils, Fats, and Glue; Preserving; Sugar, Starch, and Carbohydrates.	Feb. 14	Feb. 15	2,526
163	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND—{Trade-Marks / Labels and Prints	Oct. 18 / Oct. 15	Nov. 1 / Nov. 1	1,082 / 180

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES

Decisions of the Board of Appeals

EX PARTE DOSCH

Decided March 31, 1930

1. PATENTABILITY—ESTOPPEL.

After an award of priority in an interference involving two applications the successful party is not estopped to present claims reading upon the disclosure of the losing party merely because he did not present such claims, under the provisions of rule 109, during the pendency of the interference.

2. INTERFERENCE—DECLARATION—REPRESENTATIVE CLAIMS SELECTED.

"It is not only customary but it is highly desirable to select a few representative claims as counts in an interference proceeding. To adopt any other practice would result in needless multiplication of interference counts."

(This application has resulted in Patent No. 1,780,465.)

Application for Patent filed November 21, 1929, Serial No. 339,692.

OILING APPARATUS

Messrs. Williams, Bradbury, McCaleb & Hinkle for the applicant.

Before KINNAN, First Assistant Commissioner, and LANDERS and IDE, Examiners in Chief

LANDERS, *Examiner in Chief:*

This is an appeal from the action of the Examiner finally rejecting claims 1, 10, 11, 12, and 13. Claims 1 and 10 are illustrative and read as follows:

1. A lubricating system for the bearings of a machine, comprising a pipe leading to a bearing, a source of lubricant under variable pressure, a valve to control the flow of lubricant from said source into said pipe, hand-operated means to open said valve, and means, operated by the pressure of the lubricant, to close said valve.

10. A lubricating system, comprising a lubricant supply reservoir, a plurality of bearings to be lubricated from said reservoir, lubricant expelling means for forcing lubricant from said reservoir, a valve casing presenting a plurality of outlets, a plurality of conduits connecting said outlets and said bearings, a valve in said casing presenting a passage for conveying lubricant from said reservoir to one of said outlets, and valve actuating intermittently engaging mechanism operable by reciprocation of said lubricant expelling means.

The references relied upon are: Fitzgerald, 458,450, August 25, 1891; Medway, 535,953, March 19, 1895; Brown, 881,896, March 17, 1908.

The invention relates to a system for supplying the bearings of a machine, as an automobile, with lubricant. In the form shown in Figure 5 of the drawings the lubricant is forced by a reciprocating pump from a tank into a casing provided with a plurality of outlets. Each outlet is connected by a pipe to a bearing of the machine. A valve which has the general shape of a pan is provided with an orifice in its side, and this orifice is brought into alignment with a selected outlet, so that the bearing fed therefrom may be supplied with oil. The side of the valve member is also provided with a circular series of openings corresponding in number and spacing to the outlets. These openings are selectively positioned in alignment with an additional discharge opening in the side of the casing from which oil is conducted back to the source of supply during those periods when the first mentioned opening of the valve is not in register with any of the outlets connected to the bearings.

The claims have been rejected on the ground of estoppel, and some of them have also been refused on prior art patents.

This application was formerly involved in Interference No. 53,578 with certain other applications. The Examiner has held applicant estopped to patent the claims on appeal on the ground that they could have been presented by motion under rule 109 in the interferrence proceeding.

[1, 2] Interference No. 53,578 was terminated by an award of priority of invention to the applicant here. The claims in that interference were directed to the same subject matter as the claims on appeal. We believe there is no basis for holding that applicant is now estopped to patent these claims. Such a ruling would amount to a holding that when two applicants have been involved in an interference and priority has been awarded to one of them he may patent only such claims common to the two cases as actually constituted counts of the interference. It not only is customary but is highly desirable to select a few representative claims as counts in an interference proceeding. To adopt any other practice would result in needless multiplication of interference counts. No sound reason exists why the successful applicant in an interference proceeding may not thereafter present additional claims to the common subject matter.

The Examiner calls attention to the patent to Gleason, No. 1,590,823, granted on an application at one time involved in interference with a joint application of the instant applicant and another, said joint application and the instant application being assigned to a common assignee. The appealed claims, however, are clearly differentiated from the disclosure in the Gleason patent.

Claims 1, 12, and 13 were rejected on each of the patents to Medway and Brown. Medway does not disclose a source of lubricant which is under variable pressure. This patent also fails to disclose means operated by the pressure of the lubricant to close the valve. The first element is included in claim 1, and the second element is included in each of the claims of this group.

Brown discloses a hand-operated pump for elevating lubricant to a casing 29 from which it flows through a plurality of conduits to as many bearings. In our opinion it fails to disclose the construction set forth in each of claims 1, 12, and 13.

Claim 11 has been rejected on the patent to Fitzgerald. This patent discloses as many valve casings as there are bearings to be lubricated. It does not disclose a valve casing presenting a plu-

rality of outlets and a valve having a port adapted to register with said outlets, as required by this claim.

Claim 10 has been additionally rejected as not being patentable in addition to the counts of interference No. 53,578. This claim is a more limited claim than count 1 and a broader claim than count 2 of said interference. We believe it should be allowed in addition to the claims corresponding to the counts.

The decision of the Examiner is reversed.

U. S. Court of Customs and Patent Appeals

IN RE BRONSON

No. 2,336. Decided May 28, 1930

[40 F.(2d) 575]

PATENTABILITY—METHOD OF FORMING A WASHER UPON A VALVE MEMBER.

Certain claims for a process of forming a rubber washer upon a valve member *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Messrs. Kwiss, Hudson & Kent and *Mr. Watts T. Estabrook, Mr. William E. Williams*, and *Mr. A. J. Hudson* for Bronson.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

BLAND, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office which affirmed the decision of the Examiner, rejecting appellant's claims 1 to 4 and 10 to 13 for a method for forming an external washer upon a valve member. Claims 1, 4, and 13 are regarded as typical of all the claims rejected and are as follows:

1. The process of forming a rubber washer upon a valve member which comprises molding raw rubber into the form of a washer on said member, and vulcanizing said washer while in place on the said member.

4. The process of forming a rubber washer upon a valve member, which comprises applying a body of raw rubber to the valve member circumferentially thereof, molding said raw rubber into the form of a washer surrounding the valve member, and vulcanizing the washer so molded while in place on the valve member.

13. The process of forming rubber washers upon valve members which comprises simultaneously moulding raw rubber into the form of washers on a plurality of said members maintaining a pressure on the individual washers and vulcanizing the same on the valve members while under pressure.

The claims were rejected upon Schweinert et al., 1,177,902, April 4, 1916.

The rejected claims are for a process of forming a rubber washer upon a valve member which is ordinarily part of an automobile tire valve. The process is described in the decision of the Board of Appeals as follows:

In applicant's process he prepares a sheet of uncured rubber which is plastic like a sheet of flour dough. The sheet is perforated by being forced down over pointed pins projecting up from the top of a plate. This operation forms a thick ring of plastic rubber around the perforations in the sheet. The perforated sheet is then transferred to a bottom mold plate having valve barrel members inserted in perforations therein so that the top of the lower washer retaining collar on the barrel is flush with the upper surface of the collar. The raw or plastic rubber sheet is placed upon the lower mold plate and the openings are caused to slip over the projecting ends of the barrels of the valve inside members. The raw rubber then is in position so that the edge of the sheet is engaging with that portion of the barrel comprehended by the groove in the barrel within which groove the raw rubber is to be positioned and vulcanized. The upper mold plate of the mold having recesses in its bottom, shaped to conform to the outer finished form of the washer, is then brought down upon the lower mold plate with the recesses fitted over the projecting ends of the barrels in the lower mold plate and the plates are pressed together and heated to subject the rubber to vulcanizing action. The rubber between the meeting faces of the mold plates is squeezed laterally to fill the space between the barrel insides of the valve members and the mold cavity in the upper mold plate. When the rubber has become vulcanized sufficiently the valve members are removed from the molds and the vulcanized washers adhere to the valve barrel members.

Concerning the Schweinert disclosure the Board said:

The patent to Schweinert et al. describes a process of making and applying washers to valve barrels which involves two stages of operation. First, making a plurality of partially vulcanized washers which possess sufficient resiliency to retract closely to the barrel when stretched over the retaining collar on the barrel. Second, inserting the barrels with the washers in place within mold recesses in a plate, pressing the assembled barrels and washers into the mold apertures and vulcanizing the rubber.

The Board and the Examiner rejected the claims on the theory that they disclosed nothing not disclosed in the second stage of operation disclosed in Schweinert. Schweinert uses a partially vulcanized rubber to start with. After the rubber ring has been formed and put in place, it is then molded and vulcanized upon the valve member. The Board regarded it as immaterial, as far as patentability was concerned, whether the rubber was completely raw or partially vulcanized, since certain claims for appellant's invention were allowed and the claims which were rejected were only those which described the process shown in Schweinert's second process.

We agree with the conclusion reached by the Board of Appeals and its decision is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE ENGELHARDT

No. 2,753. Decided May 28, 1930

[40 F. (2d) 760]

1. PATENTABILITY—CLAIMS COPIED FROM A PATENT—RESOLUTION OF DOUBT.

Where an applicant copies claims from a patent, the Patent Office should, if it was clearly wrong in allowing the patented claims, not repeat the error in the application, but "we think that in such cases lack of patentability should very clearly appear to warrant rejection, and any doubt as to patentability should be more strongly resolved in favor of patentability than under circumstances where a patent had not been previously issued."

2. SAME—PROCESS OF SEPARATING GASES BY PASSING THE MIXTURE INTO ACTIVATED CARBON.

Certain claims for a process of separating gases including passing the mixture into activated carbon *Held* patentable over the prior art.

APPEAL from the Patent Office. Modified.

Mr. Drury W. Cooper, Mr. C. B. Townsend, Mr. H. F. Wiegand, and *Mr. R. L. Scheffler* for Engelhardt.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

LENROOT, *J.*:

This is an appeal from a decision of the Board of Appeals of the Patent Office rejecting claims 4 to 8 inclusive of appellant's application, for want of patentability over the prior art.

Upon oral argument appellant abandoned claims 4, 5 and 6, leaving only claims 7 and 8 in issue. These claims read as follows:

7. In a process of separating gases, passing a gaseous mixture into activated carbon and removing the adsorbable portion from said gaseous mixture by the activated carbon while allowing the unadsorbable portion to pass, expelling the adsorbed portion from the activated carbon by introducing steam into the carbon carrying the adsorbed gaseous material, cooling and collecting the gaseous matter thus expelled.

8. In a process of separating gases, passing a gaseous mixture into activated carbon and removing the adsorbable portion from said gaseous mixture by the activated carbon while allowing the unadsorbable portion to pass, expelling the adsorbed portion from the activated carbon by introducing steam into the carbon carrying the adsorbed gaseous material, and liquefying the gaseous matter thus expelled with the aid of cooling.

The references cited by the Patent Office are: Dewar (British) 7,808 of 1905; Dewar (British) 13,638 of 1904.

Said claims sufficiently describe the invention in issue.

The appellant is a chemist, a citizen of Germany. He filed his application in the United States Patent Office on August 11, 1921. On November 4, 1916, his assignee filed an application in Germany for a patent, making the following claim:

Separation of organic gas or of vaporized organic substances from their mixtures with air or other difficulty—or un-absorbable gases, such as hydrogen, consisting in treating such mixtures with especially porous charcoal, such as can be produced according to the process of Patent No. 290,656, and expelling the organic substances absorbed by the charcoal with the aid of steam in the heat.

It is conceded that the disclosure in said application describes the invention here in issue. Said application was allowed and patent thereon was granted by Germany and published on November 11, 1920, effective from November 4, 1916.

Upon application of appellant to the United States Patent Office, he was given the benefits of the act of March 3, 1921, known as the Nolan Act, which gave to him the benefit of the filing date of the said German patent, November 4, 1916.

On July 20, 1921, one Oscar L. Barnebey, an American citizen, filed in the United States Patent Office an application for a patent upon the same invention involved herein, and patent therefor was granted on August 14, 1928, No. 1,680,840. The claims 7 and 8 here in issue were copied from said Barnebey patent for the purpose of an interference proceeding, the said claims being numbered 15 and 20 in said Barnebey patent. Said patent was inadvertently issued, as appellant's application was pending at the date of its issue, and it is conceded that the subject matter of said claims is disclosed in appellant's application.

Appellant filed with the Commissioner of Patents a petition requesting that the claims here in issue, with the others which have now been abandoned, be entered, and an interference declared between his application and the said patent to Barnebey. Said amendments were finally entered, but the interference petitioned for was denied upon the ground that the claims were unpatentable, and in effect held that the Barnebey patent, inadvertently issued as aforesaid, was invalid. The Board stated that the British references here relied upon were not cited against the Barnebey application.

The appellant contends that from the foregoing state of facts an extraordinary situation is presented which should be considered in passing upon the claims here in issue. That contention may be stated as follows:

That appellant's legally effective filing date of application is November 4, 1916, being the date on which his assignee in Germany filed an application corresponding to the application here involved; that it is not disputed that the disclosure of said German application is the same as the disclosure of appellant's application here in issue; that appellant's application admittedly disclosed the invention defined in the claims copied from the Barnebey patent; that if appellant is permitted to enter an interference contest with Barnebey's patent, appellant will be entitled to his date of filing of the German application, and priority of invention will be awarded to him unless Barnebey is able to prove that he made his invention prior to November 4, 1916, which is almost four years before Barnebey filed his application.

Up to this point appellant's contention presents a situation not unusual in the case of an inadvertent issue of a patent upon a copending application; but appellant further contends in his brief as follows:

Engelhardt's *German* patent, standing alone, without the grant to him of a United States patent, was not granted or published until too late to defeat the Barnebey patent. Barnebey filed the application for his patent on July 20, 1920, and the Engelhardt German patent was not granted or published until after that date. In the absence of pending (not abandoned) or patented corresponding United States application filed within the provisions of 4887 R. S. (or as supplemented by the Nolan Act) a foreign patent speaks only as of its date of grant or publication and not as of its filing date (*Elizabeth v. Pavement Co.*, 97 U. S. 126, (130).

It is therefore beyond dispute that if the decision of the Patent Office refusing all claims to Engelhardt is made final, no one will ever be able to prove that Engelhardt and not Barnebey was in fact the first inventor.

In this contention appellant seems to be correct. If his application be rejected, and he is thereby denied an interference with Barnebey, should a suit against him for infringement be brought by Barnebey, and should the court hold the Barnebey patent was not anticipated by the British patents upon which the Board of Appeals relied in rejecting appellant's application, and therefore valid, judgment could be entered against appellant, although he may have been in fact the first inventor and had done everything that the law requires to protect his invention in the United States.

This is so because, with the rejection of appellant's application, there would be nothing pending in the Patent Office, and as conception and reduction to practice of an invention in a foreign country is not a defense to a United States patent, and as the German patent was issued subsequent to Barnebey's application, although applied for four years prior thereto, appellant would have no legal defense to an infringement suit, based upon the fact that he was the first inventor.

Appellant urges that the foregoing warrants us in resolving in his favor all doubts as to pat-

entability of his claims to a greater extent than would be proper under ordinary circumstances.

Of course we must find that the Board of Appeals erred in its decision before we can reverse it. The fact that strong equities may exist in favor of appellant does not justify us in finding error where none exists, but we think it is proper for us to consider these facts in determining the weight to be given to the fact that all of the tribunals of the Patent Office concurred in finding lack of patentability in appellant's claims. We have a right to consider that a patent has been issued by the Patent Office, a patent covering the very claims here in issue; that such patent is beyond recall by it, and that it will be considered in any court as presumptively valid.

[1] Of course the issue of the Barnebey patent did not preclude the Patent Office from finding that the claims here in issue lack patentability. If the Patent Office was clearly wrong in finding patentability of the Barnebey application, it should not repeat its error with regard to the claims here involved, but we think that in such cases lack of patentability should very clearly appear to warrant rejection, and any doubt as to patentability should be more strongly resolved in favor of patentability than under circumstances where a patent had not been previously issued.

With these observations we come to the consideration of the question of patentabilty of the claims here in issue.

The Board of Appeals held the claims here involved are anticipated by the British patent to Dewar, No. 7,808, of 1905, when taken in connection with the earlier British patent to him, No. 13,638 of 1904.

In its decision the Board of Appeals said:

> Furthermore, these claims and also claims 7 and 8 are anticipated by said Dewar patent when taken in connection with the earlier British patent to Dewar, No. 13,638, referred to in the later patent. The later patent substitutes an earthy oxide, or a mixture of such oxide with carbon, for the charcoal of the former. It fairly teaches the use of the charcoal of the earlier patent, as well as the earthy oxides to which it is particularly directed, in its disclosed processes.
>
> The earlier patent discloses pre-conditioning the charcoal by heating it to a red heat (525° to 850° C.) and exhausting it to free it from its naturally contained gas to render it more active in absorbing gases. Barnebey's original disclosure contained his method of preparing activated carbon only by reference to his earlier application, Serial No. 348,901, which has since matured into Patent No. 1,660,642. This method as disclosed in the earlier application consists in heating the carbon for an extended period of time at temperatures above 700° C. in the presence of steam. This treatment is comparable to that disclosed by Dewar. Each excludes air and both heat to substantially the same temperature. If Barnebey's carbon be more highly activated than is that of Dewar the difference is merely one of degree. We consider the earlier Dewar patent discloses "activated carbon" within the meaning of this expression as used in the Barnebey claims of which claims 7 and 8 on appeal are copies. * * *

The crucial question in the case is whether the earlier Dewar patent, 13638, discloses the use of activated carbon in the process there described. If it does not, it is conceded that neither British patent, singly or in connection with the other, constitutes an anticipation of appellant's claims.

The definition of "activated" given by lexicographers is not especially helpful in arriving at the meaning of the words "activated carbon".

Funk & Wagnalls New Standard Dictionary defines the word "activate" as follows:

> 1. *Physics:* To render radioactive, as a gas, by subjecting to the action of a radioactive substance; ionize.
> 2. *Archaic:* To make active.

We think it clear that the words "activated carbon", as used in the claims, have a technical meaning in the chemical art, and it must be so considered by us.

Following the decision of the Board of Appeals, from which this appeal is taken, appellant filed a petition for rehearing, which was denied. In support of that petition he filed two affidavits. The first was made by one Dr. Arthur B. Lamb, a professor of chemistry at Harvard University and director of chemistry at said university. He is also editor of the Journal of the American Chemical Society. He also made an earlier affidavit, not necessary to discuss here, but in the decision appealed from, Dr. Lamb is referred to by the Board of Appeals as "one highly skilled in the art".

In the affidavit filed with this petition for rehearing Dr. Lamb states:

> Dewar, by exhausting, excludes air and thus *excludes the oxygen* contained in it. Steam activation excludes *air*, but it does furnish *oxygen*, because at the temperatures employed steam is an oxidizing agent. It therefore burns some of the carbon and contained impurities to oxides of carbon. The very purpose of using steam is to utilize this *oxidizing* action to activate the carbon. Instead of steam, other oxidizing agents may be and are employed. For instance, carbon dioxide can be used, or even air, at suitable temperatures. In other words, while the Dewar process and the steam activation process appear superficially similar in that both exclude air, this very point of apparent similarity is the substantial point of difference between the two. By reason of his deliberate exclusion of air (which might, if present and properly used, have supplied the required oxygen) Dewar failed to secure a true *activated carbon*. (Last italics ours.)
>
> Claims 7 and 8 of the Engelhardt application recite a *dynamic* process of gas adsorption in which *activated carbon* is specified as the absorbent material. This process depends for its successful operation upon activated carbon as distinguished from the charcoal prepared according to the Dewar patent. Activated carbon such as can be prepared by the zinc chloride process, or by steam activation or equivalent process, and of an activity differing not in degree but in order of magnitude, is essential to the operation of the dynamic process of gas adsorption. With respect to dynamic adsorption the difference between Dewar's charcoal and such activated carbon is not one of mere degree—the two are not even comparable either as to properties or results obtained.

The second affidavit filed with the petition was made by one Walter Duisberg, a consulting chemist practicing his profession in New York city. In this affidavit, Dr. Duisberg states:

> The heating to red heat and exhaustion may serve the purpose of driving off undesired gas already contained in the charcoal, thereby rendering it able to adsorb that much more gas. Cooling the charcoal, as proposed by Dewar, also renders the charcoal capable of adsorbing more gas than it otherwise would. This process of preconditioning proposed by Dewar is not an activation process and does not produce activated carbon. Such preconditioning produces no effective change in physical structure or characteristics. It is erroneous to refer to Dewar's process as an "activation" process. The product produced by activation processes possesses changed physical characteristics and properties from those of either ordinary charcoal or the preconditioned charcoal of Dewar.
>
> (7) Dewar's charcoal cannot be used in the process defined by the Engelhardt claims here on appeal. This Engelhardt process depends for its operativeness upon the use of *activated carbon* whether prepared by steam activation, by the zinc chloride process, or otherwise.

In its denial of the petition for rehearing the Board said:

> Appellant petitions for a rehearing upon the question of patentability of the claims rejected to him and particularly claims numbered 7 and 8.
>
> The petition is accompanied by another affidavit of Dr. Lamb in view of which it is urged that Dewar in British Patent No. 13,638 is not using true activated carbon or carbon which may be considered as activated carbon within the meaning of this expression as used in claims 7 and 8. The affidavit states that when steam is used during the heat treatment, as in Barnebey, it acts as an oxidizing agent, whereas, in the Dewar process of preparation, air, and consequently oxygen, is excluded and therefore Dewar does not obtain activated carbon comparable to that used by Barnebey. It seems obvious that in the Dewar treatment the air cannot be entirely excluded and consequently the charcoal must be activated. Certainly it is rendered more active by the heat treatment and in the subsequent use of the charcoal the patent points out that recently ignited charcoal is employed. The additional affidavit of Druisberg does not change our views. After careful consideration of the petition and accompanying affidavits it does not appear that there is any probability that our decision would be reversed or modified if a rehearing were granted.
>
> *The petition is accordingly denied.*

Following the denial of the petition for rehearing, appellant filed with the Commissioner of Patents a petition for reconsideration of the rejection of said claims 7 and 8. Said request included an argument in support thereof. This petition was denied on February 21, 1930, in a written decision, again holding that the claims here in issue were anticipated by said Dewar patents.

In the second Dewar patent, No. 7,808, earthy oxides are substituted for the charcoal described in the first Dewar patent, No. 13,638, as the adsorbent material used. The Primary Examiner, in discussing the relative value of the two kinds of adsorbents, said:

> The claims were not rejected on the Dewar patent per se but on the ground that it involves no invention but only the obvious thing to do to substitute a superior adsorbent for an inferior one when the superior adsorbent one is available. All the affidavit shows is that activated carbon is superior to alumina as an adsorbent, *a thing that was conceded from the beginning.* (Italics ours.)

This naturally raises the inquiry, if the treatment given charcoal described in the first Dewar patent produced activated carbon, why did not Dewar use it in his later patent as the adsorbent material instead of an inferior material? Is there not some implication at least that the reason he did not was because the treatment of charcoal described in the first patent did not result in activated carbon, and hence was not suitable for use in carryng out the process covered by the second Dewar patent?

Standing alone this would not be determinative of the question, but it is a circumstance proper to be considered in connection with the other facts in the case.

We recognize that the questions here involved relate to an abstruse art requiring technical knowledge that can only be acquired through thorough training. We recognize, too, that the Patent Office tribunals possess this technical knowledge, while the members of this court lack it except to a very limited degree.

The record, however, presents a state of facts which we think justifies us in coming to a conclusion contrary to that of the experts of the Patent Office. They may be summarized as follows:

1. Affidavits of eminent chemists are found in the record positively stating that the treatment accorded charcoal described in the first Dewar patent does not produce activated carbon.

2. The second Dewar patent did not utilize charcoal treated as described in the first Dewar patent as an adsorbent material, but did use an absorbent material inferior to activated carbon. This would be explained if activated carbon was not produced by the treatment of charcoal described in the first Dewar patent.

3. The Patent Office has held these identical claims to be patentable and has issued a patent thereon to Barnebey, which patent is presumptively valid.

4. The references relied upon by the Board of Appeals are foreign patents, and are to be measured as anticipatory not by what might have been made out of them but by what is clearly and definitely expressed in them. *Carson* v. *American Smelting & Refining Co.*, 4 F. (2d) 463.

We think that considering all the facts in the case disclosed by the record, it is clear that the Board of Appeals should have held that the Dewar Patent 13,638 did not disclose a treatment of charcoal producing activated carbon or the use of activated carbon, and therefore said Dewar patents, singly or aggregated, neither anticipate nor negative appellant's invention covered by said claims 7 and 8. We hold that failure to so find was error.

No injustice can flow from the conclusion here reached. If, as a result of our action, an interference is declared with the Barnebey patent, and priority should be awarded to him, appellant will be eliminated. If priority should be awarded to appellant, a patent will issue to him and there will then be two patents outstanding upon the same invention. Under section 4918, Revised Statutes, the rights of the parties can be fully adjudicated in the Federal courts, where expert witnesses can be produced, subject to cross-examination; and if the court in such a proceeding should find that the process in issue is not patentable, both patents will be declared void, as the statute provides in such cases.

The decision of the Board of Appeals is affirmed as to claims 4, 5, and 6, and reversed as to claims 7 and 8.

Modified.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,013,610, W. E. Pedley, Wall construction for dams, filed Sept. 13, 1930, D. C., S. D. Calif. (Los Angeles), Doc. E S-33-J, *L. Pedley* v. *The County of Los Angeles, Calif.*

1,089,405, W. S. Ferguson, Reenforced-concrete dock or pier, filed Sept. 10, 1930, D. C., E. D. Mo., E. Div., Doc. 9165, *W. S. Ferguson et al.* v. *The City of St. Louis, Mo.* Same, filed July 18, 1930, D. C. Md., Doc. E 1742, *The Dock & Terminal Engineering Co. et al.* v. *Bethlehem Shipbuilding Corp., Ltd.* Same, Doc. E 1743, *The Dock & Terminal Engineering Co. et al.* v. *Sanford & Brooks Co.*

1,148,483. (See 1,172,243.)

1,164,720, P. M. Hotchkin, Stand-lamp reflector, filed June 13, 1930, D. C., N. D. Ill., E. Div., Doc. 9862, *Curtis Lighting Inc. et al.* v. *Sandel Mfg. Co.*

1,172,243, R. W. Andrews, Boiler-feed-water regulator; 1,148,483, same, Feeding water to boilers, filed Sept. 15, 1930, D. C., W. D. Okla. (Oklahoma City), Doc. E 1155, *Northern Equipment Co.* v. *Oils, Inc.*

1,209,460, G. F. Lowe, Recovering means for machine-construction device, filed Sept. 23, 1930, D. C. R. I., Doc. 353, *G. F. Lowe* v. *National Collapsible Tube Co.*

1,209,843, H. C. Innes, Railway road crossing, filed Sept. 8, 1930, D. C., E. D. Mo., E. Div., Doc. 9160, *W. S. Moseley* v. *J. T. Ryerson & Son, Inc.*

1,212,840, F. J. Straub, Building block and method of making same, filed Sept. 16, 1930, D. C., N. D. Ohio, E. Div., Doc. 3485, *Crozier-Straub, Inc.*, v. *F. P. Lipp.*

1,221,389, A. E. Strippel, Stencil, appeal filed Sept. 18, 1930, C. C. A., 2d Cir., Doc. 11101, *Wallace Addressing Machine Co., Inc.*, v. *Rapid Addressing Machine Co.*

1,268,580, E. H. Kidder, Grain-car-door-opening mechanism, C. C. A. 8th Cir. (St. Louis), Doc. 8718, *Link-Belt Co. et al.* v. *The Quaker Oats Co.* Decree modified and affirmed Sept. 16, 1930.

1,303,968, 1,470,291, 1,531,881, J. Sawdon, Duplex envelope, filed June 6, 1930, D. C., N. D. Ill., E. Div., Doc. 9849, *Du-Plex Envelope Corp. et al.* v. *Central Envelope Co.*

1,307,284 (*a*), S. J. Wentworth, Heel-seat-forming machine, filed Sept. 20, 1930, D. C., S. D. Ohio, W. Div., Doc. E 703. *United Shoe Machinery Corp.* v. *The L. G. Freeman Co. et al.*

1,307,284 (*b*), S. J. Wentworth, Heel-seat-forming machine; 1,482,524, D. W. Bowie, Heel-seat-fitting machine, D. C., S. D. Ohio, W. Div., Doc. 570, *United Shoe Machinery Corp.* v. *The H. Gordon Co., Inc.* Dismissed for want of equity (notice Sept. 22, 1930).

1,356,178 (*a*), C. H. Thordarson, Machine for cutting magnetic-circuit laminæ, filed June 17, 1930, D. C., N. D. Ill., E. Div., Doc. 9866, *Thordarson Electric Mfg. Co.* v. *Nordendale Mfg. Co., Inc.*

1,356,178 (*b*), C. H. Thordarson, Machine for cutting magnetic-circuit laminæ; 1,482,591, same, Method of making polysided coils; 1,482,592, same, Machine for winding coils, filed June 17, 1930, D. C., N. D. Ill., E. Div., Doc. 9864, *Thordarson Electric Mfg. Co.* v. *Transformer Corp. of America.* Doc. 9865, *Thordarson Electric Mfg. Co.* v. *Chicago Transformer Corp.*

1,432,524. (See 1,307,284 (*b*).)

1,438,560, E. F. Slattery, Repair link for tire chains, filed Aug. 27, 1930, D. C. Dels., Doc. E 816, *E. F. Slattery et al.* v. *Eureka Auto Chain Co.*

1,470,291. (See 1,303,968.) 1,482,591. (See 1,356,178 (*b*).)

1,482,592. (See 1,356,178 (*b*).)

1,504,128, C. G. Lindbom, Cigarette case, D. C., S. D. N. Y., Doc. E 51/60, *W. Demuth & Co.* v. *Strauss Silver Co., Inc.* Consent decree for plaintiff Sept. 18, 1930.

1,507,016, L. de Forest, Radio signaling system; 1,507,017, same, Wireless telegraph and telephone system, D. C., E. D. Mich., S. Div., Doc. 4121, *De Forest Radio Co.* v. *Cardon Phonocraft Corp.* Consent decree dismissing bill Sept. 20, 1930.

1,507,017. (See 1,507,016.)

1,509,211, J. B. Kausal, Electric lamp; 1,575,690, same, Aisle chair, appeal filed May 26, 1930, C. C. A., 3d Cir., Doc. 4431, *J. B. Kausal* v. *American Seating Co.*

1,520,100, S. Zetlin, Reenforced detachable pocket, filed Aug. 19, 1930, D. C. Md., Doc. E 1772, *S. Zetlin (Uniform Pocket Co.)* v. *A. Hankin et al.*

1,531,881. (See 1,303,968.)

1,533,779, W. F. Washburn, Method of bleaching barytes, filed Aug. 19, 1930, D. C., E. D. Mo., E. Div., Doc. 9153, *National Pigments & Chemical Co.* v. *C. P. De Lore.*

1,575,690. (See 1,509,211.)

1,617,148, R. T. Chase, Can opener, filed Sept. 26, 1930, D. C., S. D. N. Y., Doc. E 55/286, *R. T. Chase et al.* v. *Lorraine Metal Mfg. Co.*

1,652,262, M. Walter, Dumping mechanism for semi-trailers, appeal filed Sept. 24, 1930, C. C. A., 2d Cir., Doc. —, *M. Walter* v. *The Heil Co.*

1,670,082, D. M. Solenberger, Piston ring, filed Aug. 5, 1930, D. C., E. D. Mo., E. Div., Doc. 9147, *The Simplex Piston Ring Co. of America, Inc.*, v. *Ramsey Accessories Mfg. Corp.*

1,687,323, H. S. Cook, Medicament cartridge and hypodermic syringe embodying the same, filed Sept. 24, 1930, D. C., S. D. N. Y., Doc. E 55/282, *Cook Laboratories, Inc.*, v. *D. Curtis (The De Ce Products Co.).*

1,697,024, A. J. Rubin, Electric toaster, filed Sept. 22, 1930, D. C., S. D. N. Y., Doc. E 55/257, *Domestic Mfg. Corp. et al.* v. *Knapp-Monarch Co.*

1,704,961, T. Birkenmaier, Disconnecting block; 1,731,775, W. A. Heinrich, Hanger; 1,743,942, E. Volkmann, Switch, filed Sept. 4, 1930, D. C., E. D. Mo., E. Div., Doc. 9161, *W. N. Matthews Corp.* v. *J. R. Kearney Corp.*

1,728,837, G. Slayter, Method of heat insulating, filed Sept. 2, 1930, D. C., E. D. Mich., S. Div., Doc. 4377, *Slayter & Co.* v. *Johns-Manville Co. et al.*

1,730,309, I. I. Tubbs, Inflated ball, filed Sept. 12, 1930, D. C., E. D. Mo., E. Div., Doc. 9167, *I. I. Tubbs et al.* v. *National Sporting Goods Mfg. Co.*

1,731,775. (See 1,704,961.)

1,735,436, S. Kauffman, Radiator inclosure, filed Sept. 23, 1930, D. C., E. D. Mo., E. Div., Doc. 9172, *American Metal Products Corp.* v. *Adler Metal Products Corp.*

1,740,048, R. H. Thayer, Key-retainer strip; 1,770,327, same, Key-filing cabinet, filed Sept. 16, 1930, D. C., S. D. N. Y., Doc. E 55/220, *Thayer Felker Corp.* v. *Davenport-Taylor Mfg. Co.*

1,743,942. (See 1,704,961.)

1,760,382, C. H. Teesdale, Controlling means for electric switches, filed June 26, 1930, D. C., N. D. Ill., E. Div., Doc. 9876, *Teesdale Mfg. Co.* v. *Cook Electric Co.*

1,770,827. (See 1,740,048.)

1,770,420, J. N. Meyers, Oil-gauge wiper, filed Sept. 24, 1930, D. C. Mass., Doc. E 333, *J. N. Meyers* v. *Apco Mossberg Corp.*

Re. 16,869, R. H. Goldman, Manicuring instrument, filed Aug. 2, 1930, D. C., E. D. Mo., E. Div., Doc. 9146, *H. L. Hughes Co., Inc.*, v. *Professional Products Co.*

Re. 17,131, O. S. Caesar, Heating apparatus for automotive vehicles, C. C. A., 8th Cir. (St. Louis), Doc. 8849, *Tropic-Aire, Inc.*, v. *Sears, Roebuck & Co.* Decree affirmed Sept. 16, 1930.

Re. 17,486, G. R. Luginbuhl, Railway guides, filed Sept. 19, 1930, D. C., S. D. N. Y., Doc. E 55/237, *G. R. Luginbuhl et al.* v. *Walworth Co. et al.*

Des. 63,464, D. Gerber, Ice-cream cone, filed July 8, 1930, D. C. Md., Doc. E 1736, *The Maryland Baking Co.* v. *M. Levinson (Mount Clare Candy & Tobacco Co.).*

T. M. 195,811, Portland Wire & Iron Works, Automatic coal burner; T. M. 248,719, T. M. 252,678, Iron Fireman Mfg. Co., same, filed Sept. 23, 1930, D. C., N. D. Ohio, E. Div., Doc. 3506, *Iron Fireman Mfg. Co.* v. *Mechanical Fireman Corp.*

T. M. 248,719. (See T. M. 195,811.)

T. M. 252,678. (See T. M. 195,811.)

TRADE-MARKS

OFFICIAL GAZETTE, NOVEMBER 25, 1930

[VOL. 400. No. 4]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for " under the ten-year proviso " are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 305,766. D IRENE SOULÉ, doing business as American Coal & Wood Co., Oakland, Calif. Filed Sept. 16, 1930.



The word "Sootless" is disclaimed apart from the mark.
For Coal.
Claims use since Aug. 28, 1930.

Ser. No. 305,926. DYAL PRODUCE CORPORATION, New York, N. Y. Filed Sept. 22, 1930.



Applicant disclaims the words "Papa de Semilla Certificada Red Bliss Triumph Cosechada y Envasada por en el Canada."
For Seed Potatoes.
Claims use since Aug. 15, 1928.

CLASS 2

Receptacles

Ser. No. 300,991. GLENN A. SMITH, Los Angeles, Calif. Filed May 21, 1930.



For Receptacles for Containing Merchandise—Namely, Barrels, Boxes, Tins, Cans, Cases, Casks, Kegs, Cartons, Tanks, Tubs, Pails, Bottles, Cylinders, Jugs, Tubes, and Drums, Made of Wood, Metal, or Fiber or Combinations Thereof.
Claims use since May 1, 1930.

Ser. No. 304,772. HYGIENIC WIRE WORKS LTD., London, England. Filed Aug. 19, 1930.

GENYKAGE

For Bird Cages of Ordinary Metal.
Claims use since Apr. 1, 1930.

CLASS 3

Baggage, Animal Equipments, Portfolios, and Pocketbooks

Ser. No. 291,818. COUCH BROS. MANUFACTURING CO., East Point, Ga. Filed Oct. 31, 1929. Under 10-year proviso.

LANKFORD

For Collars, Collar Pads, and Back Bands for Animals.
Claims use since 1892.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 305,145. GEORGE SCHELCHER, doing business as The Polifina Products Co., Sacramento, Calif. Filed Aug. 29, 1930.



For Cleanser for Nickel, Silverware, Marble, Glass, and Duco, Enamel, or Lacquered Surfaces.
Claims use since June 1, 1930.

Ser. No. 305,756. INTERNATIONAL AGRICULTURAL CORPORATION, New York, N. Y. Filed Sept. 16, 1930.

IACO

For Cleansing Compound Having a Base of Trisodium Phosphate.
Claims use since Aug. 20, 1929.

Ser. No. 306,475. LOUISE BEATRICE STONE, Chicago, Ill. Filed Oct. 4, 1930.



The word "Shampoo" is disclaimed apart from the mark as shown. The portrait on drawing is based on picture of applicant's daughter, with some fanciful changes added.
For Lightweight Shampoo Soap for the Scalp and Hair.
Claims use since May, 1927.

Ser. No. 306,557. COLGATE-PALMOLIVE-PEET COMPANY, Chicago, Ill. Filed Oct. 9, 1930.

GYMSO

For Soap.
Claims use since Oct. 1, 1930.

Ser. No. 306,768. COMFORT MANUFACTURING CO., Chicago, Ill. Filed Oct. 15, 1930.

Ace

For Shaving Creams.
Claims use since Oct. 9, 1930.

Ser. No. 306,793. OTTO C. SOMMERFELD, Jr., doing business as Soprim Soap Co., Minneapolis, Minn. Filed Oct. 15, 1930.

SOPRIM

For Hand Soap.
Claims use since June 4, 1921.

CLASS 5

Adhesives

Ser. No. 305,030. THE BRITISH ISINGLASS COMPANY, LIMITED, Grimsby, England. Filed Aug. 26, 1930.

CERTOFIX

For Adhesives, Being Liquid Glue.
Claims use since September, 1924.

CLASS 6

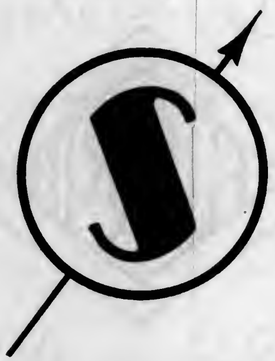
Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 290,519. GUY LIBURANCE OSTRANDER, doing business as Ethylizer Corp. of America, Dallas, Tex. Filed Oct. 2, 1929.

ETHYLIZER

For Liquid for the Purpose of Eliminating Detonation from Gases in Internal-Combustion Motors.
Claims use since Jan. 1, 1928.

Ser. No. 290,971. LEONARD QUARTETTI, doing business as Speer Products Company, Chicago, Ill. Filed Oct. 11, 1929.



For Candy Laxatives.
Claims use since Oct. 7, 1929.

Ser. No. 294,107. BERRIEN LABORATORIES, INC., St. Joseph, Mich. Filed Dec. 27, 1929.

℞ MERCUROGUM

The prescription symbol "R" in a circle, together with the short line intersecting the terminal of the letter "R" is disclaimed apart from the other features of the mark shown in the drawings.
For Medicated Chewing Gum Usable as an Aid in the Prevention and Treatment of Pyorrhea and Analogous Diseases of the Human Gums, as an Oral Antiseptic, as an Aid to Digestion, and for the Preservation of the Teeth.
Claims use since Dec. 15, 1929.

Ser. No. 298,191. DR. MARGARET LIVINGSTON CO., Chicago, Ill. Filed Mar. 31, 1930.

Dr Margaret Livingston

The facsimile signature shown in the drawing is that of Dr. Margaret Livingston and is used with her consent.
For Liver and Bowel Stimulant Tablets, Medicated Hygienic Wash Tablets, a Tablet Containing Vegetable Matter and Iron and Entitled Veg-Iron Compound, Complexion Cream, Pile Ointment, a Medicinal Healing Ointment, a Tampon Built on a Suppository Core, Astringent Medicinal Herb Hemorrhagic Tablets and Neutralizing Digestive Tablets.
Claims use since Mar. 1, 1930.

Ser. No. 299,693. ELLIS-FOSTER COMPANY, Montclair, N. J. Filed Apr. 30, 1930.

UNYTE

For Synthetic Resin Compositions for Molding Purposes.
Claims use since Apr. 17, 1930.

Ser. No. 299,732. JOHN W. SAUER, doing business as Secure-Lab., San Francisco, Calif. Filed Apr. 30, 1930.

SEKŪR

For Liquid Preparation Applied to Metal Surfaces to Prevent the Formation of Tarnish Thereon.
Claims use since Mar. 15, 1930.

Ser. No. 301,149. FRANK W. BARBER, doing business as Frank W. Barber Company, Stockton, Calif. Filed May 24, 1930.

SANATIF

For Antiseptic Liquids.
Claims use since May 1, 1930.

Ser. No. 303,806. FISK MANUFACTURING COMPANY, West Frankfort, Ill. Filed July 25, 1930.



Fisk's Liniment

No claim is made to the word "Liniment" except when used in the relation shown. The photograph is that of S. N. Fisk, one of the proprietors of the firm marketing said goods.
For Liniment for Use on Cuts, Bruises, Burns, Etc.
Claims use since Apr. 21, 1930.

Ser. No. 304,305. ANTI-EROZON LABORATORIES, INC., Miami, Fla. Filed Aug. 7, 1930.

Dr. Hall's
Anti-Frozon

For Tooth Paste.
Claims use since March, 1930.

Ser. No. 304,365. VINCENT CARRASCO, doing business as Tosfer Laboratory, New York, N. Y. Filed Aug. 8, 1930.



For Preparation for Use in the Treatment of Whooping Cough.
Claims use since Apr. 7, 1930.

Ser. No. 304,514. CHARLES M. ROSENBAUM, doing business as C. M. R. Mfg. Co., New York, N. Y. Filed Aug. 12, 1930.

CIMARIN TABLETS

The word "Tablets" is disclaimed apart from the mark shown on the drawing.
For Medical Preparation for the Treatment of Constipation and All Liver Irregularities.
Claims use since July 1, 1928.

Ser. No. 305,196. C. F. SIMMONS MEDICINE CO., INCORPORATED, New York, N. Y. Filed Aug. 30, 1930.

DR. M. A. SIMMONS



The trade-mark consists of the name and portrait of Dr. M. A. Simmons, deceased.
For Laxative Medicine.
Claims use since November, 1909.

Ser. No. 305,237. NATIONAL FLUXSITE CO., LTD., San Leandro, Calif. Filed Sept. 2, 1930.

FLUXRITE

For Metal-Fluxing Preparation.
Claims use since July 3, 1930.

Ser. No. 305,421. TENNESSEE PRODUCTS CORPORATION, Nashville, Tenn. Filed Sept. 6, 1930.

ROYAL PURPLE

For Antifreeze Mixtures—Namely, Methanol When Used for Such Mixtures.
Claims use since Aug. 19, 1930.

Ser. No. 305,729. A. O. SCHMIDT, doing business as A. O. Schmidt Co., San Francisco, Calif. Filed Sept. 15, 1930.

ANVITA

For Vaginal Suppositories.
Claims use since Sept. 5, 1930.

Ser. No. 305,805. THE DEANE PLASTER CO., Yonkers, N. Y. Filed Sept. 18, 1930.

'E-Z-BAC'
"BEST—
NEXT
TO YOU!"

No claim being made to the exclusive use of the word "Best" apart from the mark as shown in the drawing.
For Plasters for the Treatment of Coughs, Colds, Backache, Pleurisy, Rheumatism and Asthma.
Claims use since July 18, 1930.

Ser. No. 305,913. LARRY VERDI, Ossining, N. Y. Filed Sept. 20, 1930.

"IMPERIAL"



For Bleaching Solution for Straw Hats.
Claims use since May, 1928.

Ser. No. 306,288. RU-GO LABORATORIES, Charlotte, N. C. Filed Oct. 1, 1930.

Ru-So

For Preparation for Removing Hair.
Claims use since July 24, 1930.

Ser. No. 306,439. LOUISE H. GOLDSCHMIDT, Bellefontaine, Ohio. Filed Oct. 6, 1930.

SENGEL-GOLDSCHMIDT

For Salve and Ointment for External Use for Treating Human Ailments—Namely, Piles, Running Sores, Boils, and Carbuncles.
Claims use since Sept. 1, 1930.

Ser. No. 306,451. EDWARD E. MANSUR, doing business as The Man Chemical Co., Jefferson City, Mo. Filed Oct. 6, 1930.

PETIGO

For Ointment to be Applied Externally for the Treatment of Skin Diseases, Skin Infections, Ulcers, Wounds, Cuts, Scratches, Fever Blisters, and Which is Also Adapted for Use as a Skin Protective, Antiseptic, and Soothing Preparation.
Claims use since Mar. 15, 1929.

Ser. No. 306,539. PULVERAL COMPANY, INC., New York, N. Y. Filed Oct. 8, 1930.

Pulveral

For Medicinal Preparation for the Treatment of Indigestion and Constipation.
Claims use since Aug. 8, 1930.

Ser. No. 306,743. FRANK L. PALMER, Hartford, Conn. Filed Oct. 14, 1930.

(P-I-L-E-N-O-X)

For Hemorrhoidal Ointment.
Claims use since Feb. 1, 1915.

Ser. No. 306,778. JOHNSON & JOHNSON, New Brunswick, N. J. Filed Oct. 15, 1930.

CAMPHENOL

For Antiseptic Disinfectant.
Claims use since 1897.

Ser. No. 306,838. C. A. OPPELT, Kane, Pa. Filed Oct. 16, 1930.

NUL-UFF

For Medicinal Preparation for Use in Treating Dyspepsia, Stomach, Liver, and Kidney Troubles, Impure Blood, Eczema, Salt Rheum, Nervous Conditions, Head Dizziness, Headache, Constipation, Asthma, Coughs, Colds, Bronchitis, Hay Fever, Rheumatism, Neuralgia, Catarrh, Quinsy, Burns, Cuts, Sprains, and Bruises.
Claims use since 1915.

Ser. No. 306,837. GIUSTINO SALLUSTO, doing business as The Sulphoradion Company, Brooklyn, N. Y. Filed Oct. 16, 1930.

Sulphoradion

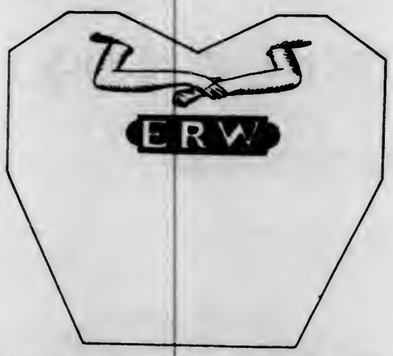
For Scientific Preparation for High Blood Pressure.
Claims use since December, 1929.

Ser. No. 306,877. PIERRE PAUL PLACIDE ASTIER, Paris, France. Filed Oct. 18, 1930.

STALYSINE

For Antistaphylococcus Vaccine Used in Furonculosis, Anthrax, Acne, and All Diseases Having the Staphylococcus as Their Origin.
Claims use since December, 1927.

Ser. No. 306,909. EDGAR R. WILLIAMS, Washington, D. C. Filed Oct. 18, 1930.



For Salve for the Treatment of Neuritis and Rheumatism.
Claims use since Sept. 10, 1930.

Ser. No. 306,957. JAMES MARCUM, Alba, Mo. Filed Oct. 20, 1930.

VALIANTINE

For Vegetable Compound Used in the Treatment of Neuralgia, Rheumatism, Piles, Bunions, Frostbites, Burns, Sore Nipples, Cuts, Sprains, Bruises, Croup, Catarrh, Sore Throat, Earache, Old Sores, Stings, Bronchitis, Tonsilitis, and Throat Trouble.
Claims use since Oct. 12, 1920.

Ser. No. 306,965. F. H. ROSS & CO., Charlotte, N. C. Filed Oct. 20, 1930.

ROSWAY

For Laundry Sour.
Claims use since Sept. 1, 1930.

Ser. No. 307,004. MIFFLIN CHEMICAL CORPORATION, Philadelphia, Pa. Filed Oct. 21, 1930.

MYLIN

For Uterine Sedative.
Claims use since Oct. 13, 1930.

Ser. No. 307,008. HUGH MULLEN, doing business as Sylgar Products Company, New York, N. Y. Filed Oct. 21, 1930.

SYLGAR

For Medicinal Preparation for Use as a Laxative and Food Corrective.
Claims use since Oct. 2, 1930.

CLASS 9

Explosives, Firearms, Equipments, and Projectiles

Ser. No. 292,526. THE EQUITABLE POWDER MANUFACTURING CO., East Alton, Ill. Filed Nov. 18, 1929.



The words "Hi-Way Signal" form part of the registration sought only in association with the other features of the mark shown in the drawing.
For Flaring Signal Fuzees.
Claims use since Sept. 3, 1929.

CLASS 10

Fertilizers

Ser. No. 303,750. THE MOUNTAIN COPPER CO. LTD., San Francisco, Calif. Filed July 23, 1930.

GRO-WELL

For Fertilizer.
Claims use since July 8, 1930.

CLASS 12

Construction Materials

Ser. No. 287,453. THE COLORADO PORTLAND CEMENT COMPANY, Denver, Colo. Filed July 22, 1929.

IDEAL QUIXTRENGTH CEMENT

No claim being made for the word "Cement" nor "Quixtrength" apart from the mark shown.
For Hydraulic Cement.
Claims use since May 9, 1929.

Ser. No. 306,262. EVERSEAL MANUFACTURING CO. INC., New York, N. Y. Filed Oct. 1, 1930.

NIAGRATITE

For Compound for Making Cement Waterproof.
Claims use since June 1, 1930.

Ser. No. 306,304. THERMAX CORPORATION, Chewelah, Wash. Filed Oct. 1, 1930.

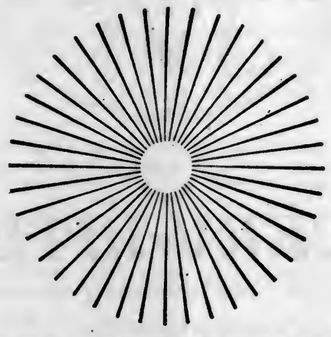
THERMAX

For Insulating Building Board.
Claims use since Aug. 2, 1930.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 272,678. EDWIN B. STIMPSON COMPANY, Brooklyn, N. Y. Filed Sept. 19, 1928.



For Metal Rivets, Washers, and Lacing Studs.
Claims use since Feb. 5, 1908.

Ser. No. 304,851. THE AMERICAN ART WORKS, INC., Coshocton, Ohio. Filed Aug. 21, 1930.

SOCIAL SUPPER

For Serving Trays of Metal Other Than Precious Metal.
Claims use since Apr. 15, 1930.

Ser. No. 305,598. A-B-C MFG. CO., Quincy, Ill. Filed Sept. 12, 1930.

"JECTOR"

For Atomizing Nozzle.
Claims use since Apr. 15, 1930.

Ser. No. 305,631. TRICOLATOR COMPANY, INC., New York, N. Y. Filed Sept. 12, 1930.

TRICOLATOR

For Coffee Infusers.
Claims use since May 22, 1922.

Ser. No. 306,601. HARRY HARPER, Minneapolis, Minn. Filed Oct. 10, 1930.

Chef-tain
THE CHIEF OF COFFEE CHEFS

For Coffee Urns.
Claims use since Sept. 26, 1930.

Ser. No. 306,693. THE COLORADO FUEL AND IRON COMPANY, Denver, Colo. Filed Oct. 13, 1930.

SUNRISE

For Wire Fence.
Claims use since Mar. 1, 1918.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 302,543. THE LUNDIE ENGINEERING CORPORATION, New York, N. Y. Filed June 18, 1930.



For Railway Tie Plates, These Being Rolled Metal Plates Used in Railway Track Construction.
Claims use since Jan. 1, 1920.

CLASS 15

Oils and Greases

Ser. No. 299,449. LYNCH-CLARISEY COMPANY, Chicago, Ill. Filed Apr. 25, 1930.



No claim is made to the exclusive right to use the separate words "Gear" and "Oil" apart from the mark shown in the drawing.
For Lubricating Oils and Greases.
Claims use since Mar. 24, 1930.

Ser. No. 305,255. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif. Filed Sept. 2, 1930.

BALLROLL

For Lubricating Greases.
Claims use since November, 1928.

Ser. No. 305,591. THE TEXAS COMPANY, New York, N. Y. Filed Sept. 11, 1930.



No claim being made to the exclusive use of the words "Motor Oil," "Clean," "Clear," and "Golden," apart from the mark as shown on the drawing.
For Petroleum Products—Lubricating Oils.
Claims use since June 2, 1930.

CLASS 16

Paints and Painters' Materials

Ser. No. 301,894. GENERAL PAINT & VARNISH CO., doing business as Invader Paint and Varnish Co., Chicago, Ill. Filed May 31, 1930.

LIN-O-LITE

For Waterproof and Quick-Drying Polish for Linoleum and Like Interior Surfaces.
Claims use since January, 1924.

Ser. No. 305,294. STANCO INCORPORATED, New York, N. Y. Filed Sept. 3, 1930.



The drawing is lined to indicate the colors red and green.
For Polish for Furniture, Automobiles, and Other Painted, Varnished, Lacquered, or Enameled Surfaces.
Claims use since Aug. 1, 1930.

Ser. No. 305,699. WILLIAM H. DEVITT, doing business as Paul J. Devitt, Philadelphia, Pa. Filed Sept. 15, 1930.

DEVCO

For Ready-Mixed Paints for Outside and Inside Use, Varnish, Paint Enamels, Paint and Varnish Removers, and Prepared Shellac.
Claims use since Apr. 15, 1930.

Ser. No. 306,052. CONDIE-BRAY GLASS & PAINT CO., doing business as Cerv-Rite Paint Company, St. Louis, Mo. Filed Sept. 25, 1930.

CERV-RITE

For House Paints, Barn Paints, Paint Enamels, and Varnishes.
Claims use since Sept. 1, 1925.

Ser. No. 306,233. G. C. DANIELSON, doing business as Dan-D-Shyne Polish Company, Minneapolis, Minn. Filed Sept. 30, 1930.

Dan-D-Shyne

The word "Shyne" is disclaimed apart from the mark shown on the drawing.
For Polish for Woodwork, Automobiles, and All Kinds of Painted, Varnished, Lacquered, and Enameled Surfaces.
Claims use since Aug. 1, 1930.

CLASS 17

Tobacco Products

Ser. No. 304,402. DE NOBILI CIGAR COMPANY, New York, N. Y. Filed Aug. 9, 1930.



The drawing is lined to indicate the colors green and red. No claim is made to the word "Extra" apart from the mark shown.
For Cigars.
Claims use since Dec. 1, 1913.

Ser. No. 306,286. GARCIA, VINA & LUNA, doing business as Garcia Y. Vina, Tampa, Fla. Filed Sept. 30, 1930.

G.V.L.

For Cigars.
Claims use since Aug. 27, 1930.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 305,834. WALLACE L. VAN VALKENBURG, Williamsett, Mass. Filed Sept. 18, 1930.

FOXY ~NOB

Applicant disclaims any exclusive right to the word "Nob" apart from the mark shown in the drawing.
For Vehicle Hand Grips for Levers.
Claims use since June 23, 1930.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 288,048. "ZÜNDAPP" GES. FÜR DEN BAU VON SPEZIALMASCHINEN M. B. H., Nuremberg, Germany. Filed Aug. 2, 1929.

Zündapp

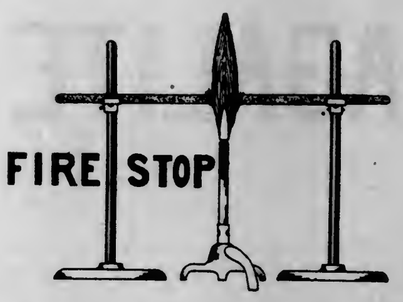
For Spark Plugs, Electric Motors, Storage Batteries, Electrically-Operated Starters, Motor Dynamos for Starting, Lighting Dynamos, Searchlights, Electric-Lighting Plants for Motor Vehicles, Electric Cables, Fixtures for Lighting Plants for Motor Vehicles, Electric Signalling Devices Consisting of Lights or Horns for Motor Vehicles.
Claims use since June, 1917.

Ser. No. 291,780. MONTGOMERY WARD & CO., INCORPORATED, Chicago, Ill. Filed Oct. 30, 1929.

TORNADO

For Automobile Ignition Systems.
Claims use since Feb. 15, 1925.

Ser. No. 294,645. NATIONAL ELECTRIC PRODUCTS CORPORATION, Pittsburgh, Pa. Filed Jan. 10, 1930.



No claim is made to the exclusive use of the words "Fire Stop" and to the representation of a section of wire apart from the mark as shown.
For Wires and Cables for Electrical Use.
Claims use since June 1, 1929.

Ser. No. 300,944. ROBERT HOE, Poughkeepsie, N. Y. Filed May 21, 1930.

MERRYWAY

For Electrically-Driven Power Unit for Operating Household Devices.
Claims use since Jan. 5, 1927.

Ser. No. 304,655. THE FITZGERALD MANUFACTURING COMPANY, Torrington, Conn. Filed Aug. 15, 1930.

STAR-Rite
Magic Maid

The drawing as presented illustrates shading. It is not intended to indicate color.
For Electric Mixing and Beating Devices Consisting of Drink Mixers, Egg Beaters, Dough Beaters, and the Like.
Claims use since July 15, 1930.

Ser. No. 305,308. JAMES W. BONSALL, Detroit, Mich. Filed Sept. 4, 1930.

"Bonsalite"

For Electrically-Illuminated Display and Advertising Signs.
Claims use since Feb. 1, 1930.

Ser. No. 306,038. AGA AUTO LAMP COMPANY, INC., Amesbury, Mass. Filed Sept. 24, 1930.

AGALITE

For Flood Lamps and Spot Lamps.
Claims use since Aug. 16, 1930.

Ser. No. 306,122. THE AMERICAN STEEL AND WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio; Chicago, Ill.; Pittsburgh, Pa.; New York, N. Y.; Worcester, Mass.; and Hoboken, N. J. Filed Sept. 27, 1930.

TIGERWELD

For Rail Bonds, and Particularly Signal Bonds.
Claims use since Aug. 7, 1930.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 261,995. STRAUSS-ECKARDT CO. INC., New York, N. Y. Filed Feb. 20, 1928.

Our Dolly-Kar Pet

No claim is made to "Dolly-Kar" apart from the mark shown.
For Dolls and Doll Velocipede Sets.
Claims use since Dec. 1, 1927.

Ser. No. 295,013. BURKE GOLF COMPANY, Newark, Ohio. Filed Jan. 21, 1930.

OLD GOLD

For Golf Balls.
Claims use since Dec. 15, 1929.

Ser. No. 296,585. THE CONESTOGA CORPORATION, Bethlehem, Pa. Filed Feb. 27, 1930.

RO-TO-TOP

The use of the word "Top" is disclaimed apart from the mark as shown.
For Tops.
Claims use since February, 1924.

Ser. No. 301,238. OWEN W. BLANCHARD, Chicago, Ill. Filed May 26, 1930.

KITTEN BOWLING

No claim is made to the exclusive use of the word "Bowling" apart from the mark shown on the drawing.
For Portable Bowling Alleys.
Claims use since Mar. 10, 1930.

Ser. No. 304,181. CAMILLE C. BLAIR, doing business as Ruffles Co., West Los Angeles, Calif. Filed Aug. 4, 1930.

RUFFLES

For Dolls.
Claims use since July 7, 1930.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 291,266. THE CINCINNATI MILLING MACHINE COMPANY, Cincinnati, Ohio. Filed Oct. 19, 1929.



For Machine Tools—Namely, Milling Machines and Cutter Grinders.
Claims use since Oct. 8, 1929.

Ser. No. 295,911. UTICA CUTLERY COMPANY, Utica, N. Y. Filed Feb. 11, 1930.



For Base-Metal Cutlery—Namely, Pocketknives, Bread Knives, Table Knives, Butcher Knives, Razors, and Razor Blades.
Claims use since August, 1929.

Ser. No. 296,816. HARRY K. PAINTER, Cincinnati, Ohio. Filed Mar. 4, 1930.

Mixasoda
THE CARBONATING DISPENSER

The words "The Carbonating Dispenser" are disclaimed apart from the drawing and word symbol "MixaSoda" as shown in the drawing.
For Apparatus for Mixing and Dispensing Soda-Fountain Drinks and the Like.
Claims use since Jan. 21, 1930.

Ser. No. 306,472. WILDER STRONG CO., Monroe, Mich. Filed Oct. 6, 1930.

SPIKE DISC

The words "Spike Disc" are disclaimed apart from the mark as shown.
For Disc Cultivators.
Claims use since Sept. 25, 1930.

CLASS 25

Locks and Safes

Ser. No. 306,757. AJAX LOCK CORPORATION, New York, N. Y. Filed Oct. 15, 1930.

Guardor

For Door and Window Locks.
Claims use since June 16, 1930.

Ser. No. 306,758. AJAX LOCK CORPORATION, New York, N. Y. Filed Oct. 15, 1930.

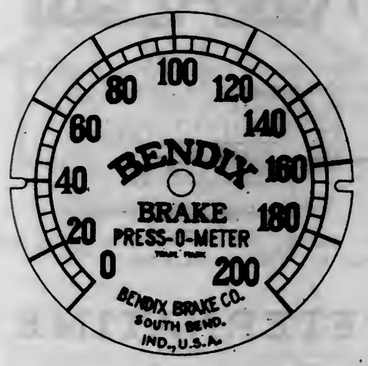
INNERGUARD

For Door and Window Locks.
Claims use since Feb. 28, 1928.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 281,895. BENDIX BRAKE COMPANY, Chicago, Ill. Filed Apr. 5, 1929.



The applicant disclaims the representation of the dial and all indicia thereon except the words "Press-O."
For Brake-Testing Apparatus.
Claims use since Nov. 16, 1927.

Ser. No. 305,886. WILLSON PRODUCTS, INC., Reading, Pa. Filed Sept. 19, 1930.

WILLSONITE

Applicant claims ownership of U. S. trade-mark registrations No. 108,119 dated Jan. 18, 1916; No. 236,979 dated Dec. 27, 1927; No. 237,593 dated Jan. 10, 1928.
For Ophthalmic Protection Lenses.
Claims use since Aug. 20, 1930.

Ser. No. 306,197. WILLIAM GEORGE MILLER, doing business as William Miller Productions, Hollywood, Calif. Filed Sept. 29, 1930.

WHY IS IT

For Motion-Picture Films.
Claims use since Sept. 18, 1930.

Ser. No. 306,731. EASTMAN KODAK COMPANY, Rochester, N. Y. Filed Oct. 14, 1930.

KODAPLAY

For Motion-Picture Film Carrying Completed Images for Projection and Projection Screens.
Claims use since Sept. 18, 1930.

CLASS 27

Horological Instruments

Ser. No. 306,691. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill. Filed Oct. 13, 1930.

ETERNATIME

For Electric Clocks.
Claims use since Oct. 1, 1930.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 289,202. OMEGA GAMMA KAPPA SORORITY, Long Beach, Calif. Filed Aug. 30, 1929.

ΩΓΚ

For Sorority Pins, Emblems, Badges, and Finger Rings, All Made of or Plated with a Precious Metal.
Claims use since August, 1925.

Ser. No. 305,858. BENJAMIN & EDWARD J. GROSS CO. INC., New York, N. Y. Filed Sept. 19, 1930.

LOVE'S ROMANCE

For Finger Rings and Mountings Therefor.
Claims use since June, 1930.

CLASS 29

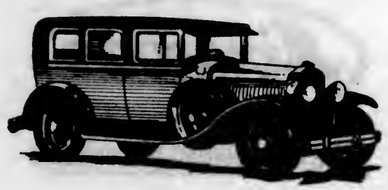
Brooms, Brushes, and Dusters

Ser. No. 289,927. SIDNEY Z. HERZFELD, doing business as The Polly Cloth Co., Birmingham, Ala. Filed Sept. 18, 1929.

AUTOKNIT

For Unimpregnated Dust Cloths.
Claims use since June 1, 1928.

Ser. No. 289,928. SIDNEY Z. HERZFELD, doing business as The Polly Cloth Co., Birmingham, Ala. Filed Sept. 18, 1929.



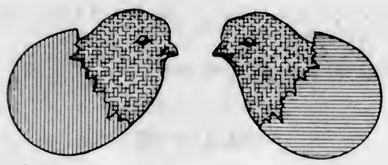
For Unimpregnated Dust Cloths.
Claims use since June 1, 1928.

Ser. No. 289,929. SIDNEY Z. HERZFELD, doing business as The Polly Cloth Co., Birmingham, Ala. Filed Sept. 18, 1929.

CHIC

For Unimpregnated Dust Cloths.
Claims use since June 1, 1928.

Ser. No. 289,930. SIDNEY Z. HERZFELD, doing business as The Polly Cloth Co., Birmingham, Ala. Filed Sept. 18, 1929.



The eggs from which the chickens are emerging are red and blue respectively in accordance with the lining appearing on the drawing, the protruding heads of the chickens being in yellow, although applicant does not limit himself to these color combinations, as other color combinations may be used.
For Unimpregnated Dust Cloths.
Claims use since June 1, 1928.

Ser. No. 290,256. KENT BRUSH SALES CORPORATION, New York, N. Y. Filed Sept. 26, 1929. Under 10-year proviso.

KENT

For Toothbrushes, Hairbrushes, Hand Brushes, Bath Brushes, Cloth Brushes, Hat Brushes, Shaving Brushes, Complexion Brushes, and Military Brushes.
Claims use since 1878.

CLASS 31

Filters and Refrigerators

Ser. No. 306,177. FRIGIDAIRE CORPORATION, Dayton, Ohio. Filed Sept. 29, 1930.

QUICKUBE

For Ice Trays Used as Refrigerating Units.
Claims use since Sept. 3, 1930.

Ser. No. 306,801. NORTH-MEHORNAY FURNITURE CO., Kansas City, Mo. Filed Oct. 15, 1930.



For Ice Boxes, Refrigerators, Including Both Electrical and Ordinary Types, and Water Filters.
Claims use since May 15, 1928.

CLASS 32

Furniture and Upholstery

Ser. No. 302,874. WEBSTER FURNITURE MANUFACTURING CO., Tacoma, Wash. Filed June 26, 1930.

LUX-O-REST

For Upholstered Furniture—Namely, Davenport Suites, Chairs, and Cushions; and Backs for Upholstered Furniture.
Claims use since Aug. 1, 1929.

Ser. No. 302,875. WEBSTER FURNITURE MANUFACTURING CO., Tacoma, Wash. Filed June 26, 1930.

INVINCIBLE

For Upholstered Furniture—Namely, Davenport Suites, Chairs, and Cushions; and Backs for Upholstered Furniture.
Claims use since Aug. 1, 1929.

Ser. No. 305,423. THE TOLEDO PARLOR FURNITURE COMPANY, Toledo, Ohio. Filed Sept. 6, 1930.

HURLEE
FURNITURE
"The Beauty-Mark of the Home"

No claim is made to the word "Furniture" apart from the mark shown in the drawing.
For Beds, Davenports, Couches, Chairs, Desks, Tables, Chiffoniers, Dressers, Buffets, Sideboards, Bookcases, Cabinets, and Mirrors.
Claims use since Aug. 22, 1930.

Ser. No. 306,276. MARQUARDT COMPANY, Milwaukee, Wis. Filed Oct. 1, 1930.

Add-a-Bed

The word "Bed" is disclaimed apart from the mark as shown.
For Convertible Beds.
Claims use since Apr. 2, 1930.

Ser. No. 306,492. MORTON H. GOLDENBERG, doing business as Goldenberg's, Washington, D. C. Filed Oct. 7, 1930.

LUXEDO BRAND

No claim being made to the word "Brand" apart from the mark as shown.
For Mattresses.
Claims use since Sept. 10, 1930.

CLASS 34

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus

Ser. No. 306,074. THERMO SERVICE, INC., New York, N. Y. Filed Sept. 25, 1930.

THERMOTUBE

For Heating Radiators.
Claims use since Aug. 20, 1930.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 305,950. CHARLES LAURENCE WILLIS, New York, N. Y. Filed Sept. 22, 1930.



No claim being made to the exclusive use of the words "Trade Mark" and "Packing" apart from the mark shown on the drawing.

For Rolled Asbestos Woven Cloth Packing With Rubber Friction or Binder for Packing Steam Glands or Stuffing Boxes of Engines.

Claims use since January, 1929.

Ser. No. 306,215. CHARLES LAURENCE WILLIS, New York, N. Y. Filed Sept. 29, 1930.



No claim being made to the exclusive use of the words "Trade Mark," "High Temperature," and "Packing" apart from the mark shown on the drawing.

For Plaited Asbestos Packing with or without a Metallic Strip of Metal for Packing Glands or Stuffing Boxes of Engines.

Claims use since November, 1929.

CLASS 36

Musical Instruments and Supplies

Ser. No. 302,082. STERLING MOTION PICTURE APPARATUS CORPORATION, New York, N. Y. Filed May 31, 1930.

SYNCROGRAF

For Sound-Reproducing Machines of the Phonograph Type Used in Connection with Motion-Picture Projectors.

Claims use since May 6, 1930.

Ser. No. 305,155. CHICAGO MUSICAL INSTRUMENT COMPANY, Chicago, Ill. Filed Aug. 30, 1930.



For Brass Band Instruments, Clarinets, and Bowed and Fretted String Instruments.

Claims use since Aug. 25, 1930.

CLASS 37

Paper and Stationery

Ser. No. 297,937. SOLOMON M. SAGER, Evanston, Ill. Filed Mar. 26, 1930.

"Little Giant"

For Fountain Pens.

Claims use since Nov. 15, 1929.

Ser. No. 301,928. THE INSURANCE FORMS ASSOCIATION, INC., San Francisco, Calif. Filed May 31, 1930.



The drawing is lined for the colors red and blue. The words "Via Air Mail" are disclaimed.

For Mailing and Correspondence Envelopes, Writing Paper, Blank Post Cards, and Wrapping Paper Sold to the Trade as Such.

Claims use since May 1, 1930.

Ser. No. 306,198. SADAYOSHI NAKAHARA, doing business as Namiki Manufacturing Co., New York, N. Y. Filed Sept. 29, 1930.



For Fountain Pens and Mechanical Pencils.

Claims use since June 15, 1930.

Ser. No. 306,551. AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed Oct. 9, 1930.

557 2/3

For Pencils.

Claims use since Dec. 24, 1925.

Ser. No. 306,806. BADGER PAPER MILLS, INC., Peshtigo, Wis. Filed Oct. 16, 1930.

GATEWAY

For Writing and Printing Papers.

Claims use since Oct. 10, 1930.

CLASS 38

Prints and Publications

Ser. No. 300,700. ELECTRAD, INC., New York, N. Y. Filed May 16, 1930.

The Electrad Forum

For Printed Publications Issued from Time to Time.

Claims use since Nov. 1, 1929.

Ser. No. 303,973. NELLIS & WIEDENBECK, INC., New York, N. Y. Filed July 29, 1930.



For Quarterly Publication.

Claims use since Apr. 1, 1930.

CLASS 39

Clothing

Ser. No. 262,514. FAY & KING, New York, N. Y. Filed Mar. 2, 1928.

"It"
The Goddess of Beauty

For Hosiery.

Claims use since August, 1927.

Ser. No. 285,490. CLARENCE B. ALDRICH, doing business as Aldrich & Aldrich, Chicago, Ill. Filed June 13, 1929.



For Women's Wearing Apparel—Namely, Basket-Ball and Gymnasium Suits; Jersey Sweaters, Pants, Bloomers, Skirts, Shoes of Leather, of Leather with Rubber Soles, and of Fabric with Rubber Soles, Hose, Blouses, Neckties, Dancing Suits, Hockey and Polo Jackets and Tunics, Swimming Suits, Track Pants, and Shirts, Knickers, and Waists for Outer Wear, Dresses, and Caps and Gowns for Collegiate, Academic, and Vested-Choir Use.

Claims use since 1912 on all goods except caps and gowns and since 1923 on caps and gowns.

Ser. No. 289,716. GORDON & FERGUSON, INC., St. Paul, Minn. Filed Sept. 13, 1929.

Town Country

For Hats for Men, Women, and Children, Made of Fur Felt, Felt, and Caps and Straw Hats.

Claims use since Mar. 1, 1929.

Ser. No. 291,286. W. C. MUNN COMPANY, Houston, Tex. Filed Oct. 19, 1929.

WONDERWEAR

For Men's, Young Men's, and Boys' Hats, and Women's Coats, Dresses, and Hats.

Claims use since Aug. 1, 1929.

Ser. No. 292,252. CHOCK-HOROWITZ COMPANY, New York, N. Y. Filed Nov. 11, 1929.



The drawing is lined for red. "Sleeping Garments" and "Nitie," respectively, are severally disclaimed per se.

For Men's and Boys' Pajamas.

Claims use since Sept. 1, 1929.

Ser. No. 293,808. FASHION, LIMITED, New York, N. Y. Filed Dec. 17, 1929.

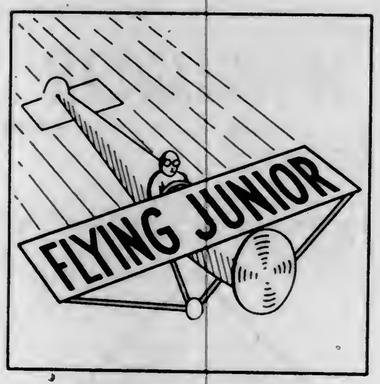


Applicant disclaims the right to the exclusive use of the phrase "Authentic Fashions" except in the association shown.

For Men's Furnishings—Namely, Neckties, Hose, Gloves Made of Leather, Dress Shirts, Pajamas, Shorts (Underwear), Sweaters, Bathing Suits, and Slacks (Long Flannel Trousers for Sports Wear).

Claims use since Aug. 1, 1929.

Ser. No. 297,111. WORTHY MANUFACTURING COMPANY, Chicago, Ill. Filed Mar. 10, 1930.



The word "Junior" is disclaimed apart from the mark shown.

For Children's Play Suits and Overalls.

Claims use since July 12, 1929.

Ser. No. 297,238. H. CHAIKEN & SONS, Philadelphia, Pa. Filed Mar. 13, 1930.

Chaison

For Ladies', Misses', and Children's Dresses; Boys' Wash Suits; and Men's, Ladies', Boys', Girls', and Infants' Sweaters.

Claims use since July, 1922.

Ser. No. 297,466. BRAEBURN OF ROCHESTER, INC., Rochester, N. Y. Filed Mar. 18, 1930.

YOUNG BRAEBURN

For Men's Outer Suits, Coats, Vests, Trousers, and Overcoats.

Claims use since Feb. 13, 1930.

Ser. No. 298,117. FRANK RUBENSTEIN & CO., INC., New York, N. Y. Filed Mar. 29, 1930.

Florine

For Ladies' Dresses, Coats, and Suits.

Claims use since Mar. 10, 1930.

Ser. No. 301,306. SIMPLEX SHOE MANUFACTURING COMPANY, Milwaukee, Wis. Filed May 26, 1930.



For Boots, Shoes, and Slippers, of Leather, Fabrics, or Combinations Thereof.

Claims use since Mar. 30, 1930.

Ser. No. 303,502. CRESCENT SHOE COMPANY, New York, N. Y. Filed July 15, 1930.



For Leather Shoes.

Claims use since April, 1926.

Ser. No. 303,924. MAURICE L. ROTHSCHILD, INCORPORATED, Chicago, Ill. Filed July 28, 1930.



SKOKIE KNITS

No claim being made to the word "Knits" apart from the mark as shown.

For Women's Suits.

Claims use since July 1, 1930.

Ser. No. 304,084. J. MILLER & SON, Baltimore, Md. Filed July 28, 1930.



Lord Baltimore Cravat

The lining in the drawing indicates the color purple, but applicant does not wish to confine its mark to any particular color. No claim is made to the exclusive use of the word "Cravat" apart from the mark as shown in the drawing. The picture shown in the drawing is not that of Lord Baltimore, but was invented by the artist when making up the sketch.

For Neckwear—Namely, Scarfs, Bows, and Four-In-Hand Ties.

Claims use since June 5, 1930.

Ser. No. 304,106. REAL SPORT CLOTHING CO., Philadelphia, Pa. Filed Aug. 1, 1930.

FLEXO

For Breeches, Riding Breeches, Service Breeches, and Sport Breeches.

Claims use since July 8, 1930.

Ser. No. 304,291. MILFORD NEWMAN, doing business as The Newman Co., New York, N. Y. Filed Aug. 6, 1930.

CUMFY

For Infants' Wear—Namely, Coats, Gertrudes, Gowns, Kimonos, Panties, Bathrobes, and Buntings.

Claims use since 1922.

Ser. No. 304,559. F. M. HOYT SHOE COMPANY, Manchester, N. H. Filed Aug. 13, 1930.



No claim being made to the symbol "$4."

For Boots, Shoes, and Slippers Made Wholly or in Part of Leather.

Claims use since June 23, 1930.

Ser. No. 305,148. STERN BROTHERS, New York, N. Y. Filed Aug. 29, 1930.

Aviatogs

For Women's Aviation and Sports Clothes—Namely, Helmets, Caps, Hats, Breeches, Coats, Jackets, Riding Habits, Boots Made of Leather and/or Rubber, Puttees, Knickers, Sweaters, Shoes Made of Leather; Gloves Made of Leather, Fabric, and/or Combinations Thereof; Mittens, Wristlets, Scarfs, Weatherproof Jackets and Coats.

Claims use since Apr. 14, 1930.

Ser. No. 305,233. MENDENHALL-GRAHAM COMPANY, Duluth, Minn. Filed Sept. 2, 1930.



For Mackinaw Coats, Sport Coats; Stag Coats—i. e., Woolen Outer Jackets Used Largely for Work Purposes; Blazers, Pants, Shirts, Leather and Cotton Gloves, Mittens, Hosiery, Sweaters, Underwear for Men and Children, Bathing Suits, Overalls, Overall Jackets, Coveralls, and Suspenders.

Claims use since May 1, 1930.

Ser. No. 305,484. KNOX HAT COMPANY, INC., New York, N. Y. Filed Sept. 9, 1930.

COMPANION

For Hats for Men.

Claims use since July 1, 1930.

Ser. No. 305,552. WINSOME HAT CO., INC., New York, N. Y. Filed Sept. 10, 1930.

Winsome Hats

Applicant disclaims the word "Hats" apart from the mark as shown in the drawing.
For Ladies', Girls', and Misses' Hats.
Claims use since November, 1925.

Ser. No. 305,581. MODEL BRASSIERE CO. INC., Brooklyn, N. Y. Filed Sept. 11, 1930.

SCANTIES

For Combination Garments Comprising a Combination of Some or All of the Following Items, Brassière, Girdle, Underwear Step-In, and Vest.
Claims use since Aug. 13, 1925.

Ser. No. 305,718. MONARCH MANUFACTURING COMPANY, Milwaukee, Wis. Filed Sept. 15, 1930.

MONARCH OUTDOOR GARMENTS

Applicant hereby disclaims exclusive use of the words "Outdoor Garments."
For Outing Clothing for Men, Women, and Children—Namely, Coats, Mackinaws, and Lumberjacks Made of Sheep Pelts, Leather, Fur, and Woolen and Rubberized Materials.
Claims use since July 1, 1927.

Ser. No. 305,719. MONARCH MANUFACTURING COMPANY, Milwaukee, Wis. Filed Sept. 15, 1930.

MONARCH 10-POINT COAT

Applicant hereby disclaims exclusive use of the word "Coat."
For Outing Clothing for Men, Women, and Children—Namely, Coats, Mackinaws, and Lumberjacks Made of Sheep Pelts, Leather, Fur, and Woolen and Rubberized Materials.
Claims use since Nov. 1, 1927.

Ser. No. 305,828. ROBERT REIS & COMPANY, New York, N. Y. Filed Sept. 18, 1930.

JIM-BELL SEAT

No claim is made to the exclusive use of the word "Seat" apart from the mark as shown on the drawing.
For Underwear—Namely, Drawers and Union Suits Made of Knitted and Woven Fabrics for Men, Women, and Children.
Claims use since August, 1930.

Ser. No. 305,885. A. TRAINA GOWNS, INC., New York, N. Y. Filed Sept. 19, 1930.

"Le Point D'Interrogation"

For Ladies' Gowns for Outer Wear.
Claims use since Sept. 2, 1930.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 301,608. CLARA K. FINCKE, Kansas City, Kans. Filed May 29, 1930.

D A R N I T ..

For Work Holders Comprising Frame Members of Metallic or Relatively Stiff Material for Holding the Work Such as Stockings and the Like, in Stretched or Distended Relation in Darning or Mending Operations.
Claims use since May 23, 1930.

CLASS 41

Canes, Parasols, and Umbrellas

Ser. No. 298,526. WILLIAM BEEHLER, INCORPORATED, Baltimore, Md. Filed Apr. 8, 1930.



No claim is made to the subject matter "Extends The Roof Of Your Car Direct To The Doorway" apart from the mark as shown.
For Umbrellas and Umbrella Holders and Cases.
Claims use since Mar. 19, 1930.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 290,225. N. H. SKINNER CO., INC., Taunton, Mass. Filed Sept. 25, 1929.

RENNIKS

For Hair Nets.
Claims use since May, 1929.

Ser. No. 300,741. NAAMLOOZE VENNOOTSCHAP WOLLENSTOFFENFABRIEKEN VAN H. ERAS & ZONEN, Tilburg, Netherlands. Filed May 17, 1930.



No claim is made to the words "No Maat Artikel" and "Deken" apart from the mark shown.
For Woolen Blankets.
Claims use since Jan. 1, 1921.

Ser. No. 303,833. JOSEPH B. BRANDLER, New York, N. Y. Filed July 26, 1930.

"Duravel"

For Pile Fabrics and Transparent Velvets (Piece Goods).
Claims use since Jan. 2, 1930.

Ser. No. 305,627. STARK BROS. RIBBON CORPORATION, New York, N. Y. Filed Sept. 12, 1930.

Cherie

For Textile Ribbons in the Piece or Bolt.
Claims use since June 1, 1927.

Ser. No. 305,628. STARK BROS. RIBBON CORPORATION, New York, N. Y. Filed Sept. 12, 1930.

Romance

For Textile Ribbons in the Piece or Bolt.
Claims use since June 11, 1930.

Ser. No. 305,653. CARO CLOTH CORPORATION, Wilmington, Del., and Carolina, R. I. Filed Sept. 13, 1930.

CARO

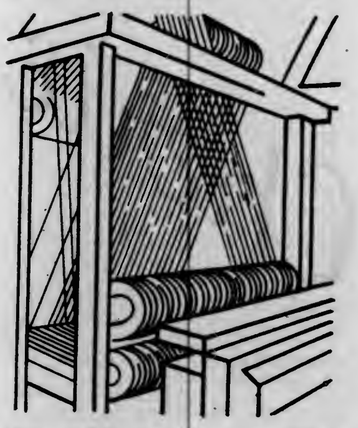
For Piece Goods of All Wool and Blends Containing a Large Percentage of Cotton.
Claims use since Apr. 1, 1926.

Ser. No. 305,907. RICE-STIX DRY GOODS CO., St. Louis, Mo. Filed Sept. 20, 1930.

SUNNY DAY PRINTS

No claim is made to the word "Prints" apart from the trade-mark shown.
For Printed Cotton Goods.
Claims use since May 9, 1928.

Ser. No. 306,148. SOCIÉTÉ A RESPONSABILITÉ LIMITÉE RODIER, Paris, France. Filed Sept. 27, 1930.



For Piece Goods of Wool, Cotton, and Silk, and Mixtures of the Same.
Claims use since June 30, 1930.

Ser. No. 306,489. HENRY GLASS & Co., New York, N. Y. Filed Oct. 7, 1930.

BEAUJON

For Cotton Piece Goods, Silk and Cotton Piece Goods, Rayon, and Artificial-Silk and Cotton Piece Goods.
Claims use since Sept. 4, 1930.

Ser. No. 306,490. HENRY GLASS & Co., New York, N. Y. Filed Oct. 7, 1930.

MALBROUK

For Cotton Piece Goods, Silk and Cotton Piece Goods, Rayon, and Artificial-Silk and Cotton Piece Goods.
Claims use since Sept. 4, 1930.

Ser. No. 306,850. SIDNEY BLUMENTHAL & Co. INC., New York, N. Y. Filed Oct. 17, 1930.

Mayvel

For Pile Fabrics in the Piece.
Claims use since Oct. 6, 1930.

Ser. No. 306,915. ZOLLINGER & SCHROTH, INC., New York, N. Y. Filed Oct. 18, 1930.

SATIN BOLIDE

The word "Satin" is disclaimed apart from the mark shown in the drawing.
For Silk Piece Goods.
Claims use since Oct. 1, 1930.

Ser. No. 306,917. ZOLLINGER & SCHROTH INC., New York, N. Y. Filed Oct. 18, 1930.

AMANAC SATIN

The word "Satin" is disclaimed apart from the mark shown in the drawing.
For Silk Piece Goods.
Claims use since Oct. 1, 1930.

CLASS 43

Thread and Yarn

Ser. No. 305,696. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Sept. 15, 1930.

CELARANDOM

For Yarns or Threads.
Claims use since Sept. 13, 1930.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 304,873. MAGNETIC CUTLERY COMPANY, Philadelphia, Pa. Filed Aug. 21, 1930.

Manipurse

For Sets of Manicure Implements.
Claims use since Jan. 31, 1930.

Ser. No. 304,936. ERNEST BAUM, doing business as Ernest Baum Products Company, Los Angeles, Calif. Filed Aug. 23, 1930.

CROQUIGNOLE PLANE PADS

Applicant does not claim the right to the exclusive use of the words "Croquignole" and "Pads."
For Permanent-Waving Machines and Pads for Use with Permanent-Waving Machines.
Claims use since Aug. 9, 1930.

Ser. No. 304,937. ERNEST BAUM, doing business as Ernest Baum Products Company, Los Angeles, Calif. Filed Aug. 23, 1930.



For Permanent-Waving Pads, Curlers, Protectors, and Heaters for Use in Permanent-Waving Machines.
Claims use since Jan. 10, 1927.

Ser. No. 305,014. RADIUM APPLIANCE COMPANY, Los Angeles, Calif. Filed Aug. 25, 1930.

Radio-Active Solar Pad

No claim is made to the exclusive use of the words "Radio-Active" and "Pad".
For Therapeutical Compresses or Pads.
Claims use since Oct. 10, 1918.

Ser. No. 305,494. SCHNEFEL BROTHERS, INC., Newark, N. J. Filed Sept. 9, 1930.

La Cross

For Tweezers for Dental, Surgical, and Manicure Purposes; Manicure and Pedicure Nippers, Manicure and Pedicure Scissors, Finger-Nail Clips, Cuticle Pushers, Cuticle Knives, Corn Knives and Corn Razors, Manicure Emery Boards, Blackhead and Pimple Removers, Manicure Buffers, Manicure Sticks Including Orange-Wood Sticks, Levy or Manicure Knives for Scraping Finger Nails, and Manicure Sets.
Claims use since 1922.

Ser. No. 306,143. PACIFIC HAIR GOODS CO. INC., doing business as Duart Permanent Wave Co., San Francisco, Calif. Filed Sept. 27, 1930.

DUART CHIEF

For Electrical Hair Dryers.
Claims use since July 17, 1930.

Ser. No. 306,158. EDWARD WECK & SON, INCORPORATED, Brooklyn, N. Y. Filed Sept. 27, 1930.

WECK

For Surgical Cutting Instruments, Forceps, Clamps, Clips, Needle Holders, Syringes, Surgeons' Rubber Gloves.
Claims use since Apr. 1, 1930.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 303,465. A. J. CANFIELD CO., Chicago, Ill. Filed July 14, 1930.

QUALITY CANFIELD'S SEAL

The drawing is lined to indicate the colors blue, red, and gold.
For Maltless Carbonated Beverages Sold as Soft Drinks.
Claims use since about month of June, 1928.

Ser. No. 306,450. MAHONING DRUG CLUB, Youngstown, Ohio. Filed Oct. 6, 1930.

Black and Gold

For Carbonated, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.
Claims use since July 1, 1930.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 273,392. CAUCHOIS COFFEE COMPANY, New York, N. Y. Filed Oct. 5, 1928.



No rights are asserted to the geographic notation "N. Y." apart from the mark as shown in the drawing.
For Tea.
Claims use since Mar. 31, 1927.

Ser. No. 289,772. VAN AMERINGEN-HAEBLER INC., New York, N. Y. Filed Sept. 13, 1929.

Lemonal

For Basic Flavoring Compounds for the Production of Food Flavors.
Claims use since July 18, 1929.

Ser. No. 299,829. CORDAGE FIBER COMPANY, INC., San Bernardino, Calif. Filed May 2, 1930.

ZAPONIN

For Bakers' Preparation for Use in the Manufacture of Meringues, Frostings, Fillings, and Marshmallow.
Claims use since Apr. 8, 1930.

Ser. No. 300,444. SCHULTZ, BAUJAN & COMPANY, Beardstown, Ill. Filed May 13, 1930.

CRITIC

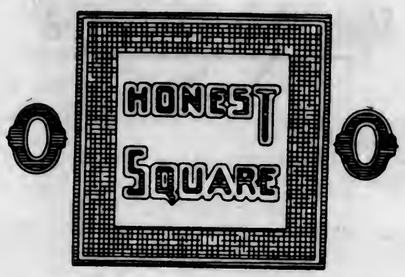
For Livestock and Poultry Feeds, Wheat Middlings, Wheat Bran, and Wheat Shorts.
Claims use since Jan. 4, 1930.

Ser. No. 302,638. LEFKOWITS-ELIAS COMPANY, New Brunswick, N. J. Filed June 20, 1930.

COLLEGE TOWN

For Tomato Catsup, Canned Shrimp, and Canned Apple Sauce, Canned Vegetables, Canned Fish, Spices, Rice, Canned Beans, Wheat Flour, Malt Syrup.
Claims use since January, 1925.

Ser. No. 304,271. THE D. L. CLARK COMPANY, Pittsburgh, Pa. Filed Aug. 6, 1930.



The drawing is lined to show blue and gold colors.
For Candy.
Claims use since September, 1925.

Ser. No. 304,765. FRENCH VANILLA PRODUCTS CO., INC., New York, N. Y. Filed Aug. 19, 1930.

Vaniprox

For Vanilla Sugar, a Powdered Substance to be Mixed with Food for Flavoring Purposes.
Claims use since Aug. 5, 1930.

Ser. No. 305,475. THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich. Filed Sept. 9, 1930.

DORMI

For Preparation for Making a Food Beverage.
Claims use since Jan. 20, 1930.

Ser. No. 305,545. STAFFORD COUNTY FLOUR MILLS COMPANY, Hudson, Kans. Filed Sept. 10, 1930.



Exclusive use of the word "Flour" being disclaimed.
For Hard-Wheat Flour.
Claims use since 1908.

Ser. No. 305,949. FRED. L. WALDRON, LTD., Honolulu, Territory of Hawaii, and San Francisco, Calif. Filed Sept. 22, 1930.





The drawing is lined to represent red and blue. The words "Peerless" and "Rice" are disclaimed except as used in connection with the balance of the mark as shown.
For Rice.
Claims use since Jan. 1, 1925.

Ser. No. 305,958. BEN-BURK, INCORPORATED, Boston, Mass. Filed Sept. 23, 1930.

Swiss Miss

For Malt Syrup.
Claims use since May 31, 1930.

Ser. No. 306,146. W. F. SCHRAFFT & SONS CORPORATION, Boston, Mass. Filed Sept. 27, 1930.

EL JARDIN

For Chocolates and Candies.
Claims use since Sept. 13, 1930.

Ser. No. 306,147. W. F. SCHRAFFT & SONS CORPORATION, Boston, Mass. Filed Sept. 27, 1930.

FLYING CLOUD

For Chocolates and Candies.
Claims use since Sept. 13, 1930.

Ser. No. 306,168. GEO. W. CASWELL COMPANY, San Francisco, Calif. Filed Sept. 29, 1930.



For purposes of this registration only applicant disclaims the surname "Caswell's" apart from the other features of the mark as shown in the drawing.
For Coffee.
Claims use since Aug. 6, 1930.

Ser. No. 306,235. FRETWELL CRACKER COMPANY, Minneapolis, Minn. Filed Sept. 30, 1930.



For Soda Crackers.
Claims use since Aug. 13, 1930.

Ser. No. 306,270. LANCE PACKING COMPANY, Charlotte, N. C. Filed Oct. 1, 1930.



The lining appearing in the drawing indicates the color red.
For Sandwiches Made of Soda Crackers and a Suitable Filler.
Claims use since Aug. 6, 1930.

Ser. No. 306,659. THE FRANK PEPE MACARONI COMPANY, Waterbury, Conn. Filed Oct. 11, 1930.



No claim is made to the word "Macaroni" apart from the mark as shown.

For Macaroni.

Claims use since Aug. 16, 1929.

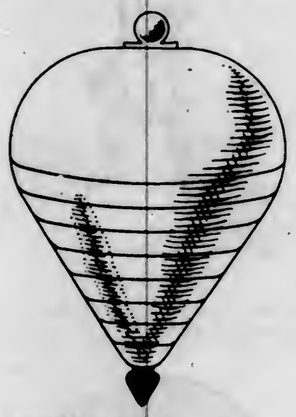
Ser. No. 306,664. RED TOP MALT COMPANY, Cincinnati, Ohio. Filed Oct. 11, 1930.

RED TOP

For Malt Syrups and Extracts.

Claims use since Sept. 1, 1920.

Ser. No. 306,665. RED TOP MALT COMPANY, Cincinnati, Ohio. Filed Oct. 11, 1930.



For Malt Syrups and Extracts.

Claims use since Sept. 1, 1920.

Ser. No. 306,840. SPECIALTY CANDY CO., INC., New Orleans, La. Filed Oct. 16, 1930.



For Candy.

Claims use since Apr. 29, 1930.

CLASS 48

Malt Beverages and Liquors

Ser. No. 269,429. PH. SCHNEIDER BREWING CO., Trinidad, Colo. Filed July 11, 1928.

CENTURY

For Nonalcoholic, Cereal, Malt Beverages Containing Less Than One-half of One Per Cent Alcohol by Volume.

Claims use since 1908.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

NOVEMBER 25, 1930

277,651. EXPLOSION MOTORS, AUXILIARY MOTORS FOR BICYCLES, CYLINDERS FOR EXPLOSION MOTORS, WATER AND OIL PUMPS, INJECTORS, CARBURETORS, VALVES FOR EXPLOSION MOTORS, DIFFERENTIAL GEARS, SPEED-CHANGE GEARS, GEAR BOXES, CLUTCHES, STARTING CRANKS, SLIDE BEARINGS, BEARING SHELLS, BALL BEARINGS, GEAR-WHEELS, SPROCKET WHEELS, AND CAR LIFTERS. "ZÜNDAPP" GES. FÜR DEN BAU VON SPEZIALMASCHINEN M. B. H., Nuremberg, Germany.

Filed August 2, 1929. Serial No. 288,046. PUBLISHED SEPTEMBER 9, 1930. Class 28.

277,652. FOUNTAIN PENS. THE WAHL COMPANY, Chicago, Ill.

Filed July 22, 1929. Serial No. 287,513. PUBLISHED SEPTEMBER 9, 1930. Class 37.

277,653. LEATHER SHOES. EDWARD J. RAMSEY, doing business as Ramsey's "They Cannot Rip," New York, N. Y.

Filed June 29, 1929. Serial No. 286,385. PUBLISHED SEPTEMBER 9, 1930. Class 39.

277,654. PAPER BOTTLES. THE AMERICAN PAPER BOTTLE COMPANY, Toledo, Ohio.

Filed May 6, 1929. Serial No. 283,538. PUBLISHED SEPTEMBER 9, 1930. Class 2.

277,655. PACKAGE TRAYS FOR TRUCKS. THE AMERICAN PULLEY COMPANY, Philadelphia, Pa.

Filed May 3, 1929. Serial No. 283,427. PUBLISHED SEPTEMBER 9, 1930. Class 2.

277,656. MAGAZINE. HOUSE FURNISHING REVIEW COMPANY, New York, N. Y.

Filed April 29, 1929. Serial No. 283,194. PUBLISHED SEPTEMBER 9, 1930. Class 38.

277,657. CLOCKS, CLOCK MOVEMENTS, AND PARTS. M. WINTERHALDER & HOFMEIER G. M. B. H., Neustadt, Germany, and New York, N. Y.

Filed April 12, 1929. Serial No. 282,329. PUBLISHED SEPTEMBER 9, 1930. Class 27.

277,658. LADIES' HATS. EVERITT & GRAF, INC., Milwaukee, Wis.

Filed July 27, 1928. Serial No. 270,242. PUBLISHED OCTOBER 23, 1928. Class 39.

277,659. GINGER ALE AND GINGER SYRUP. HELEN C. M. FRANKS, doing business as Franks' Laboratories and Research Bureau, Brooklyn, N. Y.

Filed June 16, 1928. Serial No. 268,153. PUBLISHED SEPTEMBER 9, 1930. Class 45.

277,660. FORE QUARTERS AND HIND QUARTERS OF FRESH BEEF. SWIFT AND COMPANY, Chicago, Ill.

Filed Oct. 24, 1927. Serial No. 256,552. PUBLISHED MAY 8, 1928. Class 46.

277,661. FORE QUARTERS AND HIND QUARTERS OF FRESH BEEF. SWIFT AND COMPANY, Chicago, Ill.

Filed October 24, 1927. Serial No. 256,551. PUBLISHED APRIL 17, 1928. Class 46.

277,662. LEATHER SHOES. THEO. BERGMANN SHOE MFG. CO., Oreg.

Filed May 27, 1930. Serial No. 301,330. PUBLISHED SEPTEMBER 2, 1930. Class 39.

277,663. SHOES MADE OF LEATHER, RUBBER, OR FABRIC OR COMBINATIONS OF THESE MATERIALS. JOHNS-TILT SHOE CO., Los Angeles, Calif.

Filed May 28, 1930. Serial No. 301,464. PUBLISHED AUGUST 26, 1930. Class 39.

277,664. CORSETS, CORSET BRASSIÈRES, BRASSIÈRES, CORSELETS, GIRDLES, AND BANDEAUX, IN THE NATURE OF BRASSIÈRES. BEATRICE E. TIBBITS, doing business as Tebaut, New York, N. Y.

Filed May 29, 1930. Serial No. 301,727. PUBLISHED AUGUST 26, 1930. Class 39.

277,665. GIRLS' AND YOUNG WOMEN'S SHOES MADE OF LEATHER, RUBBER, FABRIC, AND/OR COMBINATIONS OF THOSE MATERIALS. R. H. MACY & CO., INC., New York, N. Y.

Filed May 31, 1930. Serial No. 301,967. PUBLISHED SEPTEMBER 2, 1930. Class 39.

277,666. FOUNDATION GARMENTS CONSISTING OF A CORSET AND BRASSIÈRE. NATURE'S RIVAL CO., Chicago, Ill.

Filed May 31, 1930. Serial No. 301,996. PUBLISHED AUGUST 26, 1930. Class 39.

277,667. CERTAIN NAMED FOOTWEAR. WOODBURY SHOE MFG. CO., Derry, N. H.

Filed June 7, 1930. Serial No. 302,264. PUBLISHED AUGUST 26, 1930. Class 39.

277,668. CANVAS, COTTON, AND LEATHER-PALM WORK GLOVES. SEATTLE GLOVE COMPANY, Seattle, Wash.

Filed June 9, 1930. Serial No. 302,287. PUBLISHED AUGUST 26, 1930. Class 39.

277,669. SUSPENDERS, GARTERS, ARM BANDS, AND BELTS FOR OUTER WEAR. PIONEER SUSPENDER COMPANY, Philadelphia, Pa.

Filed June 11, 1930. Serial No. 302,331. PUBLISHED AUGUST 26, 1930. Class 39.

277,670. CERTAIN NAMED WEARING APPAREL. ISIDOR WEINGARTEN, New York, N. Y.

Filed June 13, 1930. Serial No. 302,422. PUBLISHED AUGUST 26, 1930. Class 39.

277,671. CERTAIN NAMED CORSETS, BRASSIÈRES, AND UNDERWEAR FOR WOMEN. POIRETTE CORSETS, INC., New York, N. Y.

Filed June 24, 1930. Serial No. 302,693. PUBLISHED SEPTEMBER 2, 1930. Class 39.

277,672. DUST CAPS FOR WOMEN. AMERICAN CAP CO., Philadelphia, Pa.

Filed June 24, 1930. Serial No. 302,762. PUBLISHED SEPTEMBER 9, 1930. Class 39.

277,673. COATS, SUITS, COMBINATION PLAY SUITS, LEGGINGS, HATS, AND OVERCOATS FOR BOYS AND GIRLS. MAX BAUER, INCORPORATED, New York, N. Y.

Filed June 25, 1930. Serial No. 302,806. PUBLISHED SEPTEMBER 9, 1930. Class 39.

277,674. SHOES CONSTRUCTED OF COMBINATIONS OF LEATHER AND FABRIC. ANDRE, INCORPORATED, Long Island City, N. Y.

Filed June 28, 1930. Serial No. 302,923. PUBLISHED SEPTEMBER 9, 1930. Class 39.

277,675. SOLES MADE OR FORMED OF A COMBINATION OF RUBBER AND FABRIC FOR SHOES. THE LIMA CORD SOLE AND HEEL COMPANY, Lima, Ohio. N. Y.

Filed June 28, 1930. Serial No. 302,953. PUBLISHED AUGUST 26, 1930. Class 39.

277,676. FOUNDATION GARMENTS CONSISTING OF CORSETS, GIRDLES, BRASSIÈRES, SUPPORTING BELTS, AND COMBINATIONS OF THE SAME. BARCLEY CORSET COMPANY, Newark, N. J.
Filed July 7, 1930. Serial No. 303,149. PUBLISHED SEPTEMBER 2, 1930. Class 39.

277,677. SHOES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF THESE MATERIALS. FORBES & WALLACE, INC., Springfield, Mass.
Filed July 7, 1930. Serial No. 303,175. PUBLISHED SEPTEMBER 9, 1930. Class 39.

277,678. RUBBERIZED CLOTHING, PARTICULARLY CAPES, BABY PANTS, BATHING CAPS, AND WATERPROOF APRONS. QUICKSLIP COMPANY, INC., New York, N. Y.
Filed July 8, 1930. Serial No. 303,256. PUBLISHED SEPTEMBER 2, 1930. Class 39.

277,679. RUBBER BOOTS AND SHOES. THE GOODYEAR RUBBER COMPANY, Middletown, Conn.
Filed July 10, 1930. Serial No. 303,328. PUBLISHED SEPTEMBER 2, 1930. Class 39.

277,680. BATH BRUSHES. CONTINENTAL MANUFACTURING CORPORATION, LTD., Los Angeles, Calif.
Filed July 31, 1930. Serial No. 304,040. PUBLISHED SEPTEMBER 9, 1930. Class 29.

277,681. ELECTRIC CLOCKS. NEW JERSEY CLOCK COMPANY, Newark, N. J.
Filed July 29, 1930. Serial No. 303,974. PUBLISHED SEPTEMBER 9, 1930. Class 27.

277,682. PIPES, MORE PARTICULARLY CORNCOB PIPES. INDEPENDENT DRUGGISTS' ALLIANCE DISTRIBUTING CO., Chicago, Ill.
Filed July 28, 1930. Serial No. 303,894. PUBLISHED SEPTEMBER 9, 1930. Class 8.

277,683. CANNED VEGETABLES. BURNHAM & MORRILL COMPANY, Portland, Me.
Filed July 28, 1930. Serial No. 303,875. PUBLISHED SEPTEMBER 9, 1930. Class 46.

277,684. WATCHES. BULOVA WATCH COMPANY, INC., New York, N. Y.
Filed July 26, 1930. Serial No. 303,836. PUBLISHED SEPTEMBER 9, 1930. Class 27.

277,685. CASTINGS OF MALLEABLE IRON, GREY IRON, STEEL, AND OTHER SIMILAR MATERIALS. CHAIN BELT COMPANY, Milwaukee, Wis.
Filed July 19, 1930. Serial No. 303,627. PUBLISHED SEPTEMBER 9, 1930. Class 14.

277,686. FOODS FOR BIRDS. JOSEPH P. LEINDORF, New York, N. Y.
Filed July 18, 1930. Serial No. 303,606. PUBLISHED SEPTEMBER 9, 1930. Class 46.

277,687. COAL. THE PHILADELPHIA AND READING COAL AND IRON COMPANY, Philadelphia, Pa.
Filed July 17, 1930. Serial No. 303,576. PUBLISHED SEPTEMBER 9, 1930. Class 1.

277,688. FERTILIZER. PLANT FOOD COMPANY, INC., Canton, Miss.
Filed July 14, 1930. Serial No. 303,487. PUBLISHED SEPTEMBER 9, 1930. Class 10.

277,689. ALUMINUM-BASE ALLOYS. APEX SMELTING COMPANY, Chicago, Ill.
Filed July 10, 1930. Serial No. 303,313. PUBLISHED SEPTEMBER 9, 1930. Class 14.

277,690. PORCELAIN CLOCKS. IRVING MILLER & CO., New York, N. Y.
Filed July 9, 1930. Serial No. 303,293. PUBLISHED SEPTEMBER 9, 1930. Class 27.

277,691. CANNED VEGETABLES. LANGE CANNING CO., Eau Claire, Wis.
Filed July 7, 1930. Serial No. 303,192. PUBLISHED SEPTEMBER 9, 1930. Class 46.

277,692. FRESH DECIDUOUS FRUITS. L. E. ENGELBERG, doing business as Madrone Vineyard, Glen Ellen, Calif.
Filed July 3, 1930. Serial No. 303,102. PUBLISHED SEPTEMBER 9, 1930. Class 46.

277,693. WHEAT FLOUR. THE ACME FLOUR MILLS CO., Oklahoma City, Okla.
Filed July 1, 1930. Serial No. 303,020. PUBLISHED SEPTEMBER 9, 1930. Class 46.

277,694. FIELD AND GARDEN SEED. VIRGINIA SEED SERVICE, INC., Richmond, Va.
Filed June 20, 1930. Serial No. 302,661. PUBLISHED SEPTEMBER 9, 1930. Class 1.

277,695. CANDY. RENAL, INC., St. Louis, Mo.
Filed June 19, 1930. Serial No. 302,601. PUBLISHED SEPTEMBER 9, 1930. Class 46.

277,696. STOCK AND POULTRY FOOD. PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn.
Filed June 19, 1930. Serial No. 302,597. PUBLISHED SEPTEMBER 9, 1930. Class 46.

277,697. POLISHING CLOTHS. FRED J. BANKLE, doing business as Bankle Cotton Products Co., Detroit, Mich.
Filed June 16, 1930. Serial No. 302,456. PUBLISHED SEPTEMBER 9, 1930. Class 29.

277,698. DRIED FRUITS. FAIRVIEW FRUIT PACKING CO., doing business as Fairview Fruit & Health Food Co., Los Angeles, Calif.
Filed May 28, 1930. Serial No. 301,425. PUBLISHED SEPTEMBER 9, 1930. Class 46.

277,699. BUTTER. R. F. PANTIER, doing business as Pantier Creamery Co., Shawnee, Okla.
Filed May 24, 1930. Serial No. 301,203. PUBLISHED SEPTEMBER 9, 1930. Class 46.

277,700. RAZORS, RAZOR BLADES, SAFETY RAZORS, AND SAFETY-RAZOR BLADES. JACOB HOLTZ, New York, N. Y.
Filed November 26, 1929. Serial No. 292,935. PUBLISHED SEPTEMBER 9, 1930. Class 23.

277,701. TABLES, CASES, DESKS, ETC. GUNN FURNITURE COMPANY, Grand Rapids, Mich.
Filed April 28, 1930. Serial No. 299,572. PUBLISHED SEPTEMBER 9, 1930. Class 32.

277,702. FRESH PINEAPPLES. ARTHUR SERRA & CO., Chicago, Ill.
Filed April 24, 1930. Serial No. 299,411. PUBLISHED SEPTEMBER 9, 1930. Class 46.

277,703. MALT CEREAL BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT ALCOHOL BY VOLUME. THE FITGER COMPANY, Duluth, Minn.
Filed April 23, 1930. Serial No. 299,312. PUBLISHED SEPTEMBER 9, 1930. Class 48.

277,704. COAL. OLD BEN COAL CORPORATION, Chicago, Ill., assignor to Spruce River Coal Company, Massillon, Ohio.
Filed April 22, 1930. Serial No. 299,275. PUBLISHED SEPTEMBER 9, 1930. Class 1.

277,705. BABY NAPKINS MADE OF GAUZE WITH CELLULOSE WADDING FOLDED THEREIN. W. F. BENDER & CO. INC., Buffalo, N. Y.
Filed April 19, 1930. Serial No. 299,106. PUBLISHED AUGUST 26, 1930. Class 42.

277,706. CERTAIN-NAMED WEARING APPAREL. JULIUS KAYSER & CO., New York, N. Y.
Filed April 18, 1930. Serial No. 299,061. PUBLISHED AUGUST 26, 1930. Class 39.

277,707. SHOES MADE OF LEATHER, LEATHER AND FABRIC, AND THE COMBINATION OF LEATHER, RUBBER, AND FABRIC. THE WALKER T. DICKERSON COMPANY, Columbus, Ohio.
Filed April 18, 1930. Serial No. 299,051. PUBLISHED SEPTEMBER 2, 1930. Class 39.

277,708. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS, SHOES, SLIPPERS, AND FOOTWEAR MADE OF LEATHER, FABRIC, CANVAS, RUBBER, FELT, OR SATIN. KAUFMANN DEPARTMENT STORES, INC., Pittsburgh, Pa.
Filed April 4, 1930. Serial No. 298,400. PUBLISHED AUGUST 26, 1930. Class 39.

277,709. PERIODICAL PUBLICATION. OLIVE L. TRACY, doing business as National Auto Glass Specifications, Denver, Colo.
Filed March 26, 1930. Serial No. 297,944. PUBLISHED SEPTEMBER 9, 1930. Class 38.

277,710. DIATOMACEOUS EARTH, A MATERIAL FOR STRENGTHENING AND WATERPROOFING CONCRETE, MORTAR, PLASTER, AND STUCCO MIXTURES. A. C. OCHS BRICK & TILE CO., Springfield, Minn.
Filed March 20, 1930. Serial No. 297,615. PUBLISHED SEPTEMBER 9, 1930. Class 1.

277,711. CORD FABRIC FOR AUTOMOBILE TIRES. MANVILLE JENCKES COMPANY, Pawtucket, R. I.
Filed February 5, 1930. Serial No. 295,627. PUBLISHED SEPTEMBER 9, 1930. Class 42.

277,712. GRAIN BLOWERS FOR ELEVATING GRAIN. LINK MANUFACTURING CO., Kansas City, Mo.
Filed January 27, 1930. Serial No. 295,270. PUBLISHED SEPTEMBER 9, 1930. Class 23.

277,713. PAPER, AND MORE PARTICULARLY SUCH PAPER AS IS USED FOR WRAPPING PURPOSES. AMERICAN LAKES PAPER COMPANY, Chicago, Ill.
Filed December 7, 1929. Serial No. 293,360. PUBLISHED SEPTEMBER 9, 1930. Class 37.

277,714. PAPER, AND MORE PARTICULARLY SUCH PAPER AS IS USED FOR WRAPPING PURPOSES. AMERICAN LAKES PAPER COMPANY, Chicago, Ill.
Filed December 7, 1929. Serial No. 293,359. PUBLISHED SEPTEMBER 9, 1930. Class 37.

277,715. COATS, MACKINAWS, CAPS OR HELMETS, LEATHER GLOVES, AND LEATHER MITTENS FOR USE OF MEN, WOMEN, AND CHILDREN. ALBERT RICHARD COMPANY, Milwaukee, Wis.
Filed May 21, 1930. Serial No. 300,979. PUBLISHED AUGUST 26, 1930. Class 39.

277,716. MILK, BUTTER, CHEESE, FERMENTED MILK BEVERAGES (KEFIR), PREPARED MILK BEVERAGES, CONDENSED MILK, AND CREAM. SAYA G. M. B. H., Munich, Germany.
Filed May 20, 1930. Serial No. 300,886. PUBLISHED SEPTEMBER 9, 1930. Class 46.

277,717. SPATS. F. C. CHAMBERLAIN & CO. INC., New York, N. Y.
Filed May 20, 1930. Serial No. 300,857. PUBLISHED SEPTEMBER 9, 1930. Class 39.

277,718. RULES. THE STANLEY WORKS, New Britain, Conn.
Filed May 19, 1930. Serial No. 300,824. PUBLISHED AUGUST 26, 1930. Class 26.

277,719. WHEAT FLOUR. CHARLES BANKS STOUT, doing business as Washington Flour Mill, Washington, Mo.
Filed May 14, 1930. Serial No. 300,550. PUBLISHED SEPTEMBER 9, 1930. Class 46.

277,720. WHEAT FLOUR. CHARLES BANKS STOUT, doing business as Washington Flour Mill, Washington, Mo.
Filed May 14, 1930. Serial No. 300,549. PUBLISHED SEPTEMBER 9, 1930. Class 46.

277,721. WHEAT FLOUR. DELTA FLOUR MILLS CO., Minneapolis, Minn.
Filed May 9, 1930. Serial No. 300,173. PUBLISHED SEPTEMBER 9, 1930. Class 46.

277,722. OIL BURNERS. WALTHAM OIL BURNER CORPORATION, Waltham, Mass.
Filed May 7, 1930. Serial No. 300,004. PUBLISHED SEPTEMBER 9, 1930. Class 34.

277,723. WRITING AND PRINTING PAPER. STRATHMORE PAPER COMPANY, Mittineague, Mass.
Filed May 6, 1930. Serial No. 300,038. PUBLISHED SEPTEMBER 9, 1930. Class 37.

277,724. AIR PILOTING AND COMPUTING DEVICE USED FOR CALCULATING AIR DRAFTS, MAGNETIC VARIATIONS, GROUND SPEED, AND RECKONING. ALVAH RODNEY MELHUISH, Kingston, Pa.
Filed May 3, 1930. Serial No. 299,922. PUBLISHED SEPTEMBER 9, 1930. Class 26.

277,725. TRAVELLING BAGS, SUITCASES, HAND BAGS, ETC. DOBBS & CO., New York, N. Y.
Filed May 3, 1930. Serial No. 299,901. PUBLISHED SEPTEMBER 9, 1930. Class 3.

277,726. BEVERAGE TEA. SPRAGUE, WARNER & COMPANY, Chicago, Ill.
Filed April 30, 1930. Serial No. 299,736. PUBLISHED SEPTEMBER 9, 1930. Class 46.

277,727. ROTARY ROCK-BIT CONES. GARBER TOOL COMPANY, Garber, Okla.
Filed July 7, 1930. Serial No. 303,177. PUBLISHED SEPTEMBER 9, 1930. Class 23.

277,728. PERIODICALS. AMERICAN LITHOGRAPHIC COMPANY, INC., New York, N. Y.
Filed July 29, 1930. Serial No. 303,941. PUBLISHED SEPTEMBER 9, 1930. Class 38.

277,729. PERIODICAL MAGAZINE. THE CHURCH FEDERATOR CO., Chicago, Ill.
Filed July 28, 1930. Serial No. 303,878. PUBLISHED SEPTEMBER 9, 1930. Class 38.

277,730. MAGAZINE. THE AUTOMOBILE CLUB OF NEW HAVEN COUNTY, New Haven, Conn.
Filed July 23, 1930. Serial No. 303,735. PUBLISHED SEPTEMBER 9, 1930. Class 38.

277,731. DAILY NEWSPAPER. THE MORNING NEWS, INC., Savannah, Ga.
Filed July 17, 1930. Serial No. 303,572. PUBLISHED SEPTEMBER 9, 1930. Class 38.

277,732. SECTION OF A PERIODICAL. CARL A. NOWAK, St. Louis, Mo.
Filed July 11, 1930. Serial No. 303,381. PUBLISHED SEPTEMBER 9, 1930. Class 38.

277,733. A LIQUID MILK CHOCOLATE FOR MAKING ICE CREAM. THE PANGO MILK CHOCOLATE CO., Toledo, Ohio.
Filed July 10, 1930. Serial No. 303,342. PUBLISHED SEPTEMBER 9, 1930. Class 46.

277,734. WEEKLY PRINTED PERIODICAL OR TRADE PAPER. ANTIQUARIAN PUBLISHING COMPANY, INC., New York, N. Y.
Filed July 7, 1930. Serial No. 303,146. PUBLISHED SEPTEMBER 9, 1930. Class 38.

277,735. WOMEN'S AND CHILDREN'S SANDALS OF LEATHER AND/OR WOVEN FABRIC. WALTHER LOEWENDAHL SHOE CO. INC., New York, N. Y.
Filed June 28, 1930. Serial No. 302,955. PUBLISHED SEPTEMBER 2, 1930. Class 39.

277,736. PUBLICATION PRINTED AT REGULAR INTERVALS. AMES HARRIS NEVILLE CO., San Francisco, Calif.
Filed June 25, 1930. Serial No. 302,805. PUBLISHED SEPTEMBER 9, 1930. Class 38.

277,737. MAGAZINE PRINTED AND DISTRIBUTED MONTHLY. THE BRUCE PUBLISHING COMPANY, Milwaukee, Wis.
Filed June 23, 1930. Serial No. 302,723. PUBLISHED SEPTEMBER 9, 1930. Class 38.

277,738. OVERALL ELASTIC FOR USE IN MAKING SUSPENDERS FOR OVERALLS. SOUTHERN WEBBING MILLS, INC., Guilford County, near Greensboro, N. C.
Filed June 20, 1930. Serial No. 302,649. PUBLISHED SEPTEMBER 2, 1930. Class 40.

277,739. CHOCOLATE SYRUP FOR FOOD-FLAVORING PURPOSES. THE ZAREX COMPANY, INC., Boston, Mass.
Filed June 18, 1930. Serial No. 302,561. PUBLISHED SEPTEMBER 9, 1930. Class 46.

277,740. BRAIDS AND BIAS BINDINGS. WILLIAMSPORT NARROW FABRIC CO., Williamsport, Pa.
Filed June 17, 1930. Serial No. 302,521. PUBLISHED SEPTEMBER 2, 1930. Class 40.

277,741. MONTHLY PERIODICAL. THE JUNIOR LITERARY GUILD, INC., New York, N. Y.
Filed June 17, 1930. Serial No. 302,510. PUBLISHED SEPTEMBER 9, 1930. Class 38.

277,742. COFFEE, TEA, FLAVORING EXTRACTS FOR FOODS, PREPARED MUSTARD, PEANUT BUTTER, MAYONNAISE, SANDWICH SPREAD, SPICES, AND JELLING POWDERS. MCFADDEN COFFEE & SPICE CO., Dubuque, Iowa.
Filed June 14, 1930. Serial No. 302,439. PUBLISHED SEPTEMBER 9, 1930. Class 46.

277,743. KNITTED GOODS—NAMELY, SWEATERS FOR MEN, WOMEN, AND CHILDREN, BATHING SUITS FOR MEN, WOMEN, AND CHILDREN, AND SPORT COATS FOR WOMEN. UNITED GLOBE KNITTING MILLS, INC., Philadelphia, Pa.
Filed May 26, 1930. Serial No. 301,313. PUBLISHED AUGUST 26, 1930. Class 39.

277,744. LADIES' UNDERWEAR. RABINER UNDERWEAR CO. INC., New York, N. Y.
Filed May 26, 1930. Serial No. 301,293. PUBLISHED SEPTEMBER 2, 1930. Class 39.

277,745. CANNED SAUERKRAUT, TOMATO CATSUP, PICKLES, AND CHILI SAUCE. THE J. WELLER COMPANY, Oak Harbor, Ohio.
Filed May 24, 1930. Serial No. 301,221. PUBLISHED SEPTEMBER 9, 1930. Class 46.

277,746. BOOKS PUBLISHED ANNUALLY. LAMAR & WHITMORE, BOOK AGENTS, PUBLISHING HOUSE, M. E. CHURCH, SOUTH, doing business under the name of Cokesbury Press, Nashville, Tenn.
Filed May 22, 1930. Serial No. 301,041. PUBLISHED SEPTEMBER 9, 1930. Class 38.

277,747. PERIODICALS. ALFRED A. COHEN, New York, N. Y.
Filed July 29, 1930. Serial No. 303,949. PUBLISHED SEPTEMBER 9, 1930. Class 38.

277,748. LADIES' UNDERGARMENTS—NAMELY, LADIES' VESTS, BLOOMERS, PANTIES, CHEMISES, BANDEAUX, NIGHTGOWNS, PAJAMAS, AND PAJAMA ENSEMBLES MADE OF SILK AND RAYON MIXED. M. S. SIEGEL & COMPANY, INC., New York, N. Y.
Filed May 8, 1930. Serial No. 300,148. PUBLISHED SEPTEMBER 9, 1930. Class 39.

277,749. STRUCTURAL SLATE SLABS—NAMELY, SLATE FLAGGING, STAIR TREADS, RISERS AND PLATFORMS, WINDOW SILLS, FLOORS, FLOOR BORDERS, WAINSCOTTING, THRESHOLDS. KEENAN STRUCTURAL SLATE COMPANY, INC., Easton, Pa.
Filed April 24, 1930. Serial No. 299,392. PUBLISHED SEPTEMBER 9, 1930. Class 12.

277,750. ELECTRIC CIGAR LIGHTERS. CASCO PRODUCTS CORPORATION, Bridgeport, Conn.
Filed April 18, 1930. Serial No. 299,041. PUBLISHED SEPTEMBER 9, 1930. Class 21.

277,751. FULL-FASHIONED SILK HOSIERY. CHALFONT HOSIERY MILLS, Chalfont, Pa.
Filed April 7, 1930. Serial No. 298,488. PUBLISHED SEPTEMBER 9, 1930. Class 39.

277,752. ARTIFICIAL BAIT. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio.
Filed March 3, 1930. Serial No. 296,733. PUBLISHED SEPTEMBER 9, 1930. Class 22.

277,753. SUITS, OVERCOATS, TOPCOATS, ETC. THE BIG STORE COMPANY, Cincinnati, Ohio.
Filed February 25, 1930. Serial No. 296,474. PUBLISHED SEPTEMBER 2, 1930. Class 39.

277,754. GASOLINE AND LUBRICATING OILS AND GREASES. IRVING OIL COMPANY, LIMITED, St. John, New Brunswick, Canada.
Filed February 8, 1930. Serial No. 295,796. PUBLISHED SEPTEMBER 9, 1930. Class 15.

277,755. MEN'S, LADIES', BOYS' AND GIRLS, UNDERWEAR, BATHING SUITS, PAJAMAS, AND RUNNING TRUNKS. MY MARYLAND MILLS, INCORPORATED, Hagerstown, Md.
Filed January 21, 1930. Serial No. 295,042. PUBLISHED SEPTEMBER 9, 1930. Class 39.

277,756. ARTICLES MADE OF OR PLATED WITH PRECIOUS METAL CONSISTING OF PINS, WATCH FOBS, AND MEDALS. DELTA PSI, New York, N. Y.
Filed December 21, 1929. Serial No. 293,961. PUBLISHED SEPTEMBER 9, 1930. Class 28.

277,757. HOSIERY. THE VAUGHAN KNITTING COMPANY, Pottstown, Pa.
Filed December 16, 1929. Serial No. 293,757. PUBLISHED FEBRUARY 18, 1930. Class 39.

277,758. NAPHTHA FOR USE IN THE MANUFACTURE OF LACQUERS. AMERICAN MINERAL SPIRITS CO., Chicago, Ill.
Filed November 22, 1929. Serial No. 292,703. PUBLISHED SEPTEMBER 9, 1930. Class 16.

277,759. SOAP. ISRAEL DAVIS, Lawrence, Mass.
Filed November 21, 1929. Serial No. 292,660. PUBLISHED SEPTEMBER 9, 1930. Class 4.

277,760. LADIES' DRESSES. M. C. D. BORDEN & SONS, INC., New York, N. Y.
Filed October 16, 1929. Serial No. 291,111. PUBLISHED DECEMBER 24, 1929. Class 39.

277,761. ELECTRICAL SIGNS. FRANK C. REILLY, New York, N. Y.
Filed September 3, 1929. Serial No. 289,291. PUBLISHED SEPTEMBER 9, 1930. Class 21.

277,762. ARMATURES AND ARMATURE-TESTING DEVICES WHICH INDICATE THE FLOW OF CURRENT BY MEANS OF A LIGHT. ARMATURE & IGNITION SUPPLY CO., Oakland, Calif.
Filed May 1, 1929. Serial No. 283,320. PUBLISHED SEPTEMBER 9, 1930. Class 21.

277,763. ELECTRIC BURGLAR ALARMS AND PARTS THEREOF. AMERICAN ELECTRICAL COMPANY, Boston, Mass.
Filed March 7, 1929. Serial No. 280,372. PUBLISHED SEPTEMBER 9, 1930. Class 21.

277,764. TERMINAL CONNECTORS FOR ELECTRICAL CONDUCTORS, SPARK PLUG AND OTHER IGNITION. WILLIAM J. HUNTER, doing business as Hunter Auto Equipment Co. Inc., New York, N. Y., assignor to Hunter Auto Equipment Co. Inc., New York, N. Y.
Filed December 22, 1928. Serial No. 277,112. PUBLISHED SEPTEMBER 9, 1930. Class 21.

277,765. LUBRICATING OIL. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del.
Filed May 21, 1930. Serial No. 300,996. PUBLISHED SEPTEMBER 9, 1930. Class 15.

277,766. BOYS' TIES (NECKWEAR). EMIL GLICK, Cleveland, Ohio.
Filed May 13, 1930. Serial No. 300,409. PUBLISHED SEPTEMBER 9, 1930. Class 39.

277,767. BOYS' TIES (NECKWEAR). EMIL GLICK, Cleveland, Ohio.
Filed May 13, 1930. Serial No. 300,408. PUBLISHED SEPTEMBER 9, 1930. Class 39.

277,768. LADIES' UNDERGARMENTS—NAMELY, LADIES' VESTS, BLOOMERS, PANTIES, CHEMISES, BANDEAUX, NIGHTGOWNS, PAJAMAS, AND PAJAMA ENSEMBLES MADE OF SILK AND RAYON MIXED. M. S. SIEGEL & COMPANY, INC., New York, N. Y.
Filed May 8, 1930. Serial No. 300,150. PUBLISHED SEPTEMBER 9, 1930. Class 39.

277,769. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y.
Filed July 30, 1930. Serial No. 303,991. PUBLISHED SEPTEMBER 9, 1930. Class 42.

277,770. PILE FABRICS IN THE PIECE. E. F. TIMME & SON, New York, N. Y.
Filed July 29, 1930. Serial No. 303,978. PUBLISHED SEPTEMBER 9, 1930. Class 42.

277,771. OFFICE MACHINES FOR PUNCHING PAPER OR THE LIKE FOR USE IN AN IDENTIFICATION SYSTEM. CASIMIR L. WERK, Jr., Cincinnati, Ohio.
Filed July 28, 1930. Serial No. 303,929. PUBLISHED SEPTEMBER 9, 1930. Class 23.

277,772. BUTTER. MONTGOMERY & COMPANY, Bay City, Mich.
Filed July 28, 1930. Serial No. 303,916. PUBLISHED SEPTEMBER 9, 1930. Class 46.

277,773. GINGER ALE. INDEPENDENT DRUGGISTS' ALLIANCE DISTRIBUTING CO., Chicago, Ill.
Filed July 28, 1930. Serial No. 303,904. PUBLISHED SEPTEMBER 9, 1930. Class 45.

277,774. TWINE. INDEPENDENT DRUGGISTS' ALLIANCE DISTRIBUTING CO., Chicago, Ill.
Filed July 28, 1930. Serial No. 303,893. PUBLISHED SEPTEMBER 9, 1930. Class 7.

277,775. FULL OR PART CIRCLE CONVERTIBLE POWER SHOVELS, TRACTOR SHOVELS, SKIMMERS, TRENCHERS, DIPPER DREDGES, AND PARTS THEREOF. BAY CITY SHOVELS, INC., Bay City, Mich.
Filed July 28, 1930. Serial No. 303,873. PUBLISHED SEPTEMBER 9, 1930. Class 23.

277,776. AIRPLANES. STINSON AIRCRAFT CORPORATION, Wayne, Mich.
Filed July 25, 1930. Serial No. 303,827. PUBLISHED SEPTEMBER 9, 1930. Class 19.

277,777. AIRPLANES. STINSON AIRCRAFT CORPORATION, Wayne, Mich.
Filed July 25, 1930. Serial No. 303,826. PUBLISHED SEPTEMBER 9, 1930. Class 19.

277,778. SILK PIECE GOODS. JANSEN & PRETZFELD, INC., New York, N. Y.
Filed July 25, 1930. Serial No. 303,813. PUBLISHED SEPTEMBER 2, 1930. Class 42.

277,779. AUTOMOBILE TRAILERS. THE GLOBE-TROTTER, INC., Shreveport, La.
Filed July 25, 1930. Serial No. 303,808. PUBLISHED SEPTEMBER 9, 1930. Class 19.

277,780. SAFETY RAZORS, RAZOR-BLADE HOLDERS, AND RAZOR BLADES. ERICSSON SCREW MACHINE PRODUCTS CO., INC., Brooklyn, N. Y.
Filed July 25, 1930. Serial No. 303,804. PUBLISHED SEPTEMBER 9, 1930. Class 23.

277,781. COAL. THE PHILADELPHIA AND READING COAL AND IRON COMPANY, Philadelphia, Pa.
Filed July 17, 1930. Serial No. 303,579. PUBLISHED SEPTEMBER 9, 1930. Class 1.

277,782. COAL. THE PHILADELPHIA AND READING COAL AND IRON COMPANY, Philadelphia, Pa.
Filed July 17, 1930. Serial No. 303,578. PUBLISHED SEPTEMBER 9, 1930. Class 1.

277,783. DOG FOOD. F. L. MARNEY, doing business as Marney Animal Food Products Co., Los Angeles, Calif.
Filed July 16, 1930. Serial No. 303,538. PUBLISHED SEPTEMBER 9, 1930. Class 46.

277,784. CAKE. CONTINENTAL BAKING COMPANY, Wilmington, Del., and New York, N. Y.
Filed July 8, 1930. Serial No. 303,246. PUBLISHED SEPTEMBER 9, 1930. Class 46.

277,785. HEATING GRILLES. TUTTLE & BAILEY MANUFACTURING COMPANY, New York, N. Y.
Filed June 28, 1930. Serial No. 302,973. PUBLISHED SEPTEMBER 9, 1930. Class 34.

277,786. LEATHER TRAVELING BAGS AND BRIEF CASES. NATIONAL BRIEF CASE MFG. CO., Chicago, Ill.
Filed June 27, 1930. Serial No. 302,907. PUBLISHED SEPTEMBER 9, 1930. Class 3.

277,787. CALF LEATHER. AMERICAN HIDE AND LEATHER COMPANY, Boston, Mass.
Filed May 31, 1930. Serial No. 301,774. PUBLISHED SEPTEMBER 9, 1930. Class 1.

277,788. MUCILAGE, ADHESIVE PASTE, AND GLUE. S. S. STAFFORD, INC., New York, N. Y.
Filed May 26, 1930. Serial No. 301,309. PUBLISHED SEPTEMBER 9, 1930. Class 5.

277,789. FIRECRACKERS. VERN EDGAR SCOTT, doing business as Scott, Birdsall Company, San Francisco, Calif.
Filed July 31, 1930. Serial No. 304,073. PUBLISHED SEPTEMBER 9, 1930. Class 9.

277,790. COUNTING MACHINES. EDWARD R. AMMON, Reading, Pa.
Filed July 25, 1930. Serial No. 303,795. PUBLISHED SEPTEMBER 9, 1930. Class 26.

277,791. VENDING MACHINES. VENDI-CATER, INC., Williamsport, Pa.
Filed July 23, 1930. Serial No. 303,755. PUBLISHED SEPTEMBER 9, 1930. Class 23.

277,792. ARTIFICIAL-SILK THREAD AND YARN. "LA SOIE ARTIFICIELLE DE CALAIS," S. A., Calais, France.
Filed July 18, 1930. Serial No. 303,605. PUBLISHED SEPTEMBER 9, 1930. Class 43.

277,793. ARTIFICIAL-SILK THREAD AND YARN. "LA SOIE ARTIFICIELLE DE CALAIS," S. A., Calais, France.
Filed July 18, 1930. Serial No. 303,604. PUBLISHED SEPTEMBER 9, 1930. Class 43.

277,794. ARTIFICIAL-SILK THREAD AND YARN. "LA SOIE ARTIFICIELLE DE CALAIS," S. A., Calais, France.
Filed July 18, 1930. Serial No. 303,603. PUBLISHED SEPTEMBER 9, 1930. Class 43.

277,795. PILE FABRICS IN THE PIECE. E. F. TIMME & SON, New York, N. Y
Filed July 14, 1930. Serial No. 303,495. PUBLISHED SEPTEMBER 9, 1930. Class 42.

277,796. MALT BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT ALCOHOL BY VOLUME. UPPER PENINSULA PRODUCE COMPANY, doing business as H. & A. Bottling Company, Escanaba, Mich.
Filed July 11, 1930. Serial No. 303,409. PUBLISHED SEPTEMBER 9, 1930. Class 48.

277,797. WOOLEN PIECE GOODS AND PILE FABRICS IN THE PIECE. ISADORE GOTTLIEB, doing business as Seminole Textile Co., New York, N. Y.
Filed July 11, 1930. Serial No. 303,375. PUBLISHED SEPTEMBER 9, 1930. Class 42.

277,798. PYROMETER. AMERICAN DEMAG CORPORATION, Chicago, Ill.
Filed July 11, 1930. Serial No. 303,361. PUBLISHED SEPTEMBER 9, 1930. Class 26.

277,799. VAPORIZING OIL BURNERS. THE REGAL CORPORATION, Rochester, Minn.
Filed July 8, 1930. Serial No. 303,257. PUBLISHED SEPTEMBER 9, 1930. Class 34.

277,800. AUTOMATIC VALVES ON OIL-WELL FLOWING APPARATUS. INGERSOLL-RAND COMPANY, New York, N. Y.
Filed July 7, 1930. Serial No. 303,185. PUBLISHED SEPTEMBER 9, 1930. Class 23.

277,801. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS AND EXTRACTS FOR MAKING THE SAME. CITRUS JUICE & FLAVOR COMPANY, Los Angeles, Calif.
Filed July 7, 1930. Serial No. 303,158. PUBLISHED SEPTEMBER 9, 1930. Class 45.

277,802. RAINCOATS. THE POPULAR WAREHOUSES, LIMITED, London, England.
Filed July 15, 1930. Serial No. 303,512. PUBLISHED SEPTEMBER 9, 1930. Class 39.

277,803. HYDRATED LIME. UNITED STATES LIME PRODUCTS CORPORATION, San Francisco, Calif.
Filed July 18, 1930. Serial No. 303,617. PUBLISHED SEPTEMBER 9, 1930. Class 12.

277,804. RAINCOATS. THE POPULAR WAREHOUSES, LIMITED, London, England.
Filed July 15, 1930. Serial No. 303,511. PUBLISHED SEPTEMBER 9, 1930. Class 39.

277,805. HOSIERY. METROPOLE HOSIERY MILLS, INC., New York, N. Y.
Filed July 15, 1930. Serial No. 303,510. PUBLISHED SEPTEMBER 9, 1930. Class 39.

277,806. INFANTS' AND CHILDREN'S HOSIERY, SOCKS, AND ANKLETS. MIDDLETOWN KNITTING CO., INC., Middletown, Pa.
Filed July 14, 1930. Serial No. 303,482. PUBLISHED SEPTEMBER 9, 1930. Class 39.

277,807. HOSIERY. BEAR BRAND HOSIERY CO., Chicago, Ill.
Filed July 14, 1930. Serial No. 303,462. PUBLISHED SEPTEMBER 9, 1930. Class 39.

277,808. HOSIERY. BEAR BRAND HOSIERY CO., Chicago, Ill.
Filed July 14, 1930. Serial No. 303,461. PUBLISHED SEPTEMBER 9, 1930. Class 39.

277,809. MEN'S CLOTHING—NAMELY, OVERCOATS, TOPCOATS, AND SUITS. EAGLE CLOTHES, New York, N. Y.
Filed July 12, 1930. Serial No. 303,426. PUBLISHED SEPTEMBER 9, 1930. Class 39.

277,810. MEN'S CLOTHING—NAMELY, OVERCOATS, TOPCOATS, AND SUITS. EAGLE CLOTHES, New York, N. Y.
Filed July 12, 1930. Serial No. 303,425. PUBLISHED SEPTEMBER 9, 1930. Class 39.

277,811. CLEANING COMPOUND FOR WOOD AND METAL SURFACES, ETC. VOLCANITE PRODUCTS CO., Okemah, Okla.
Filed July 11, 1930. Serial No. 303,411. PUBLISHED SEPTEMBER 9, 1930. Class 4.

277,812. WHISKS AND BROOMS OF VEGETABLE FIBER. PALMETTO WHISK & BROOM COMPANY, Jacksonville, Fla.
Filed July 10, 1930. Serial No. 303,341. PUBLISHED AUGUST 26, 1930. Class 29.

277,813. PLEDGE PINS, BADGES, AND PENDANTS, ALL MADE OF OR PLATED WITH PRECIOUS METAL. DELTA OMICRON, Cincinnati, Ohio.
Filed July 9, 1930. Serial No. 303,278. PUBLISHED SEPTEMBER 9, 1930. Class 28.

277,814. NECKTIES. STERN, MERRITT CO. INC., New York, N. Y.
Filed July 7, 1930. Serial No. 303,224. PUBLISHED SEPTEMBER 9, 1930. Class 39.

277,815. MEN'S DRESS, NEGLIGEE, AND WORK SHIRTS AND UNDERWEAR. APOLLO SHIRT CO., New York, N. Y.
Filed July 1, 1930. Serial No. 303,022. PUBLISHED SEPTEMBER 2, 1930. Class 39.

277,816. MOTOR-LUBRICATING OILS, LUBRICATING GREASES, AND LUBRICANTS CONSISTING OF GREASE COMPOUNDS. ARTHUR F. SNIPES, doing business as The Snipes Company, Oklahoma City, Okla.
Filed June 30, 1930. Serial No. 303,012. PUBLISHED SEPTEMBER 9, 1930. Class 15.

277,817. GYMNASIUM SHIRTS. ONEITA KNITTING MILLS, Utica, N. Y.
Filed June 28, 1930. Serial No. 302,963. PUBLISHED SEPTEMBER 2, 1930. Class 39.

277,818. ELECTRIC SIGNS. FLASHER SALES AND SERVICE CO., INC., New York, N. Y.
Filed June 28, 1930. Serial No. 302,939. PUBLISHED SEPTEMBER 9, 1930. Class 21.

277,819. RADIO LOUD-SPEAKERS. JENSEN RADIO MANUFACTURING COMPANY, Chicago, Ill.
Filed June 27, 1930. Serial No. 302,900. PUBLISHED SEPTEMBER 9, 1930. Class 21.

277,820. RADIO LOUD-SPEAKERS. JENSEN RADIO MANUFACTURING COMPANY, Chicago, Ill.
Filed June 27, 1930. Serial No. 302,899. PUBLISHED SEPTEMBER 9, 1930. Class 21.

277,821. ASBESTOS BRAKE LININGS AND ASBESTOS CLUTCH FACINGS. MULTIBESTOS COMPANY, Walpole, Mass.
Filed June 30, 1930. Serial No. 303,019. PUBLISHED SEPTEMBER 9, 1930. Class 35.

277,822. VEHICLE TIRES OF RUBBER AND FABRIC. UNITED STATES RUBBER COMPANY, New York, N. Y.
Filed June 27, 1930. Serial No. 302,918. PUBLISHED SEPTEMBER 9, 1930. Class 35.

277,823. COIN-OPERATED VENDING MACHINES. UNEEDAPAK PRODUCTS COMPANY, Brooklyn, N. Y.
Filed June 21, 1930. Serial No. 302,703. PUBLISHED SEPTEMBER 9, 1930. Class 23.

277,824. ADJUSTABLE SHADE-ROLLER SUPPORTS ADAPTED FOR RAISING AND LOWERING BOTH ROLLER AND SHADE. GENERAL WINDOW EQUIPMENT CORPORATION, New York, N. Y.
Filed May 31, 1930. Serial No. 301,896. PUBLISHED SEPTEMBER 9, 1930. Class 13.

277,825. METAL END PIECES FOR CORES USED IN REELING UP PAPER OR CLOTH. BROWN COMPANY, Portland, Me., and Berlin, N. H.
Filed May 23, 1930. Serial No. 301,093. PUBLISHED SEPTEMBER 9, 1930. Class 2.

277,826. ARTIFICIAL-SILK THREADS. ALGEMEENE KUNSTZIJDE UNIE N. V., Arnhem, Netherlands.
Filed May 22, 1930. Serial No. 301,003. PUBLISHED SEPTEMBER 9, 1930. Class 43.

277,827. CARBONATED, NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. DORADO CLUB BEVERAGE CO., Los Angeles, Calif.
Filed August 2, 1930. Serial No. 304,120. PUBLISHED SEPTEMBER 9, 1930. Class 45.

277,828. RADIO LOUD-SPEAKERS. JENSEN RADIO MANUFACTURING COMPANY, Chicago, Ill.
Filed June 27, 1930. Serial No. 302,898. PUBLISHED SEPTEMBER 9, 1930. Class 21.

277,829. PAINT, VARNISH, LACQUER, AND TRAFFIC PAINT. ROBERT R. RAAP, doing business as The Union Paint & Varnish Co., Chicago, Ill.
Filed June 24, 1930. Serial No. 302,792. PUBLISHED SEPTEMBER 9, 1930. Class 16.

277,830. CORK BOARD, CORK PIPE COVERING, CORK MACHINERY INSULATION, ACOUSTICAL CORK BOARD, EMULSIFIED ASPHALT, CORK COVERING-SEAM FILLER, AND CORK COVERING LAGGING. CORK INSULATION CO. INC., New York, N. Y.
Filed June 24, 1930. Serial No. 302,769. PUBLISHED SEPTEMBER 9, 1930. Class 12.

277,831. COMBINATION SALT AND PEPPER SHAKER CONSTRUCTED OF CHINA. WILLIAM H. MONTGOMERY, Bremerton, Wash.
Filed June 23, 1930. Serial No. 302,736. PUBLISHED SEPTEMBER 9, 1930. Class 30.

277,832. UNDERWEAR, SHIRTS, SKIRTS, ETC. UNDERWEAR OF RAYON, INC., El Paso, Tex.
Filed June 20, 1930. Serial No. 302,659. PUBLISHED SEPTEMBER 9, 1930. Class 39.

277,833. MECHANICAL TOYS. WILLIAM NEAL TIENCKEN, Brooklyn, N. Y.
Filed June 20, 1930. Serial No. 302,654. PUBLISHED SEPTEMBER 9, 1930. Class 22.

277,834. PENETRATING LUBRICANT. RUST-GO MANUFACTURING CO., Oklahoma City, Okla.
Filed June 26, 1930. Serial No. 302,643. PUBLISHED SEPTEMBER 9, 1930. Class 15.

277,835. PANELING MATERIAL FOR WALLS, CABINETS, OR THE LIKE COMPOSED OF A WASHABLE FACING SUCH AS LINOLEUM PERMANENTLY SECURED TO A BACKING OF LAMINATED WOOD. KOKEN COMPANIES, St. Louis, Mo.
Filed June 19, 1930. Serial No. 302,581. PUBLISHED SEPTEMBER 9, 1930. Class 12.

277,836. CEMENT, LIME, AND CEMENT AND LIME MIXTURES FOR USE IN MAKING CONCRETE, STUCCO, PLASTER, AND MORTAR. RIVERTON LIME COMPANY, INC., Riverton, Va.
Filed June 16, 1930. Serial No. 302,478. PUBLISHED SEPTEMBER 9, 1930. Class 12.

277,837. CEMENT, LIME, AND CEMENT AND LIME MIXTURES FOR USE IN CONCRETE, STUCCO, PLASTER, AND MORTAR. RIVERTON LIME COMPANY, INC., Riverton, Va.
Filed June 16, 1930. Serial No. 302,477. PUBLISHED SEPTEMBER 9, 1930. Class 12.

277,838. CHILDREN'S BEACH SUITS. E-Z MILLS, INC., New York, N. Y.
Filed June 13, 1930. Serial No. 302,379. PUBLISHED SEPTEMBER 9, 1930. Class 39.

277,839. GAMES EMPLOYING BOARDS. HOWARD M. FANCHER, doing business as Rochester Folding Box Co., Rochester, N. Y.
Filed June 7, 1930. Serial No. 302,242. PUBLISHED SEPTEMBER 9, 1930. Class 22.

277,840. COVERED ELECTRICAL CONDUCTORS. SPLITDORF ELECTRICAL COMPANY, Newark, N. J.
Filed May 31, 1930. Serial No. 302,074. PUBLISHED JULY 15, 1930. Class 21.

277,841. CLEANING AND POLISHING SOAP COMPOUND. UNITED CHEMICAL COMPANY, INC., Kansas City, Mo.
Filed May 23, 1930. Serial No. 301,134. PUBLISHED SEPTEMBER 9, 1930. Class 4.

277,842. WALL AND CEILING PANELS. THE MERCHANT TRADING COMPANY, LIMITED, London, England.
Filed May 22, 1930. Serial No. 301,051. PUBLISHED SEPTEMBER 9, 1930. Class 12.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

277,843. (CLASS 5. ADHESIVES.) WILLIAM A. NICHOLSON, Dallas, Tex. Filed Jan. 28, 1928. Serial No. 260,842.

Ever-Ready Puncture Seal

For Composition for Sealing Punctures in the Tubes of Automobile Tires.
Claims use since Aug. 1, 1923.

277,844. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) TESTRITE INSTRUMENT COMPANY, New York, N. Y. Filed Jan. 28, 1929. Serial No. 278,567.

FOTOLITE

For Metal Reflectors for Photographic and Similar Lamps.
Claims use since Dec. 15, 1926.

277,845. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) R. D. WERNER, doing business as Safety Carpet Underlay Co., New York, N. Y. Filed Aug. 30, 1929. Serial No. 289,222.

ANON-SLIP

For Linings Coated with Rubber or Other Solutions and Intended to Prevent the Slipping of Rugs, Mats, and Carpets.
Claims use since Aug. 20, 1929.

277,846. (CLASS 38. PRINTS AND PUBLICATIONS.) CHR. HANSEN'S LABORATORY, INC., Little Falls, N. Y. Filed Aug. 27, 1929. Serial No. 289,073.

Mary Mason

For Newspaper Articles Appearing from Time to Time.
Claims use since 1927.

277,847. (CLASS 45. BEVERAGES, NONALCOHOLIC.) J. W. WUPPERMANN ANGOSTURA BITTERS AGENCY, INC., New York, N. Y. Filed Sept. 21, 1929. Serial No. 290,101.

ANGOSTURA

For Ginger Ale.
Claims use since Aug. 19, 1929.

277,848. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HELENE MORA, doing business as Doris Delrae, New Canaan, Conn., and New York, N. Y. Filed Sept. 27, 1930. Serial No. 306,140.

DORIS DELRAE

For Cucumber Cream.
Claims use since January, 1925.

277,849. (CLASS 2. RECEPTACLES.) THE MENASHA PRODUCTS COMPANY, Chicago, Ill. Filed Sept. 25, 1929. Serial No. 290,219.

LOK-TITE

For Paper Pails.
Claims use since Sept. 1, 1929.

277,850. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BRIDGEPORT MACHINE COMPANY, Wichita, Kans. Filed Sept. 26, 1929. Serial No. 290,240.

SWAN PAT. UNDERREAMER

For Underreamers.
Claims use since Apr. 19, 1899.

277,851. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BRIDGEPORT MACHINE COMPANY, Wichita, Kans. Filed Sept. 26, 1929. Serial No. 290,241.

New Type
·SWAN·
Underreamer

For Underreamers.
Claims use since May 26, 1927.

277,852. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BRIDGEPORT MACHINE COMPANY, Wichita, Kans. Filed Sept. 26, 1929. Serial No. 290,242.

SWAN
Underreamer

For Underreamers.
Claims use since Apr. 19, 1899.

277,853. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HARDWICK & MAGEE COMPANY, Philadelphia, Pa. Filed Oct. 11, 1929. Serial No. 290,949.

SOMERSET
COLONIAL
CARPET

For Textile Carpets.
Claims use since Oct. 8, 1929.

277,854. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AUSTIN, NICHOLS & Co. INC., Brooklyn, N. Y. Filed Oct. 31, 1929. Serial No. 291,808.

KERNELKORN

For Canned Corn.
Claims use since Aug. 20, 1929.

277,855. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) VICTOR BALATA & TEXTILE BELTING CO., New York, N. Y. Filed Nov. 4, 1929. Serial No. 291,955.

EASTON

For Solid-Woven Cotton Belt.
Claims use since Oct. 1, 1929.

277,856. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) STANDARD SCHOOL COMPANY, Saint Louis, Mich. Filed Feb. 17, 1930. Serial No. 296,151.

STANCO

For Soft and Hard Coal Furnaces.
Claims use since June, 1927.

277,857. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) MCQUAY RADIATOR CORPORATION, Minneapolis, Minn. Filed Apr. 21, 1930. Serial No. 299,209.

McQUAY

For Radiators for Internal-Combustion Engines.
Claims use since Apr. 1, 1927.

277,858. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) MCQUAY RADIATOR CORPORATION, Minneapolis, Minn. Filed Apr. 21, 1930. Serial No. 299,210.

McQUAY

For Radiators of Heating Systems and Unit Heaters and Radiator and Coils for Heat-Exchange Units.
Claims use since Apr. 1, 1927.

277,859. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) U. S. RING TRAVELER COMPANY, Providence, R. I. Filed Sept. 12, 1930. Serial No. 305,632.

Bevel Edge

For Ring Travelers.
Claims use since November, 1928.

277,860. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EASTERN FRUIT DISTRIBUTORS, INC., Los Angeles, Calif. Filed Oct. 6, 1930. Serial No. 306,586.

BETTER
'N
EVER

For Fresh Vegetables, Deciduous and Citrus Fruits, Grapes, Cantaloupes, and Honeydews.
Claims use since Feb. 11, 1929.

TRADE-MARK REGISTRATIONS RENEWED

33,126. CERTAIN NAMED GROCERIES. Registered June 27, 1899. ROGER I. SHERMAN, Boston, Mass. Renewed June 27, 1929.

35,445. GRAIN SEEDERS AND GRAIN DRILLS. Registered November 13, 1900. LA CROSSE PLOW COMPANY, La Crosse, Wis. Renewed November 13, 1930, to Allis-Chalmers Manufacturing Company, West Allis and Milwaukee, Wis., a Corporation of Delaware, assignee.

35,449. SACK COATS. Registered November 20, 1900. SWEET, ORR & Co., Newburgh, N. Y. Renewed November 20, 1930, to Sweet-Orr & Co. Inc., Wappingers Falls and New York, N. Y., a Corporation of New York, successor.

35,568. MUSTARD. Registered December 11, 1900. SOCIÉTÉ EN COMMANDITE PAR ACTIONS PRODUITS ALIMENTAIRES LOUIT FRÈRES, ET CIE. Renewed December 11, 1930, to Produits Alimentaires Louit Freres & Cie, Societe Anonyme, Bordeaux, France, a Corporation of France, successor.

35,628. FIRE BRICK. Registered December 18, 1900. STOWE, FULLER & Co., Cleveland, Ohio. Renewed December 18, 1930, to The Massillon Refractories Company, Massillon, Ohio, a Corporation of Ohio, assignee.

35,687. CERTAIN NAMED PROPRIETARY MEDICINES. Registered December 25, 1900. S. B. LEONARDI & Co., Tampa, Fla. Renewed December 25, 1930, to S. B. Leonardi & Co. Inc., New Rochelle, N. Y., a Corporation of New York, successor.

35,669. METALLIC PAINTS. Registered December 25, 1900. WINTER'S METALLIC PAINT COMPANY, Iron Ridge, Wis. Renewed December 25, 1930, to Winters Metallic Paint Company, East St. Louis, Ill., a Corporation of Wisconsin.

35,741. SOAP. Registered January 8, 1901. LOS ANGELES SOAP CO., Los Angeles, Calif., a Corporation of California. Renewed January 8, 1931.

35,793. CERTAIN NAMED FABRICS. Registered January 22, 1901. WM. OPENHYM & SONS, New York, N. Y. Renewed January 22, 1931.

36,005. CEREAL FOOD PRODUCTS. Registered March 5, 1901. THE H-O (HORNBY'S OATMEAL) COMPANY, New York, N. Y. Renewed March 5, 1931, to Hecker-H-O Company, Inc., Buffalo, N. Y., a Corporation of New York, assignee.

36,125. NASAL DOUCHE. Registered March 26, 1901. KRESS & OWEN COMPANY, New York, N. Y., a Corporation of New York. Renewed March 26, 1931.

36,244. CERTAIN NAMED APPAREL. Registered April 16, 1901. BRILL BROTHERS, New York, N. Y. Renewed April 16, 1931.

79,059. STRAIGHT IRISH WHISKY. Registered August 2, 1910. THE IRISH INDUSTRIAL DEVELOPMENT ASSOCIATION (INCORPORATED), Cork, Ireland. Renewed August 2, 1930, to The Irish Industrial Development Association, Dublin, Ireland, a Corporation of the Kingdom of Great Britain and Ireland (now the Irish Free State).

79,158. CONDENSED MILK. Registered August 9, 1910. SCIO CONDENSED MILK CO., Scio, Oreg. Renewed August 9, 1930, to The Borden Western Company, San Francisco, Calif., a Corporation of California, successor.

79,193. TURKISH CIGARETTES. Registered August 16, 1910. PROSPERO DE NOBILI & Co., New York, N. Y. Renewed August 16, 1930, to De Nobili Cigar Company, Long Island City, N. Y., a Corporation of New York, assignee.

79,290. COFFEE. Registered August 23, 1910. LOUIS D. MARGOLIS. Renewed August 23, 1930, to L. D. Margolis Co., Boston, Mass., a Corporation of Massachusetts, assignee.

79,777. Suspensories, trusses, and bandages. Registered October 4, 1910. MEYERS MANUFACTURING COMPANY, Watertown, N. Y., a Corporation of New York. Renewed October 4, 1930.

79,933. A CERTAIN CHEMICAL SUBSTANCE. Registered October 18, 1910. THE ROESSLER & HASSLACHER CHEMICAL COMPANY, New York, N. Y., as assignee of Dr. Rickmann & Rappe, G. m. b. H., Chemische Fabrik, Kalk, near Cologne, Germany. Renewed October 18, 1930, to The Stibium Products Company, Elyria, Ohio, a Corporation of Ohio, assignee by mesne assignments.

79,966. SHAMPOO POWDER. Registered October 25, 1910. R. G. EDWARDS. Renewed October 25, 1930, to Edwards' Harlene, Limited, London, England, a Corporation of Great Britain, successor.

80,019. REFINED PETROLEUM. Registered November 1, 1910. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed November 1, 1930.

80,020. REFINED PETROLEUM. Registered November 1, 1910. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed November 1, 1930.

80,114. A GLYCOLYTIC EXTRACT OF PANCREAS. Registered November 8, 1910. FAIRCHILD BROS. & FOSTER, New York, N. Y., a Corporation of New York. Renewed November 8, 1930.

80,118. FIRE-EXTINGUISHING APPARATUS. Registered November 8, 1910. GENERAL FIRE EXTINGUISHER COMPANY, New York, N. Y., and Providence, R. I. Renewed November 8, 1930, to General Fire Extinguisher Company, Providence, R. I., a Corporation of Delaware, assignee.

80,145. WIRE SCREEN CLOTH. Registered November 8, 1910. NEW YORK WIRE CLOTH COMPANY, New York, N. Y., and York, Pa. Renewed November 8, 1930, to New York Wire Cloth Company, New York, N. Y., a Corporation of Delaware, assignee.

80,239. WHEAT FLOUR. Registered November 22, 1910. THE REA-PATTERSON MILLING CO., Coffeyville, Kans., a Corporation of Kansas. Renewed November 22, 1930.

80,266. CHILDREN'S UNDERCLOTHING. Registered November 29, 1910. BROWN DURRELL CO., Boston, Mass., a Corporation of Massachusetts. Renewed November 29, 1930.

80,268. LUBRICATING GREASE AND YARN GREASE. Registered November 29, 1910. CATARACT REFINING AND MANUFACTURING COMPANY, Buffalo, N. Y. Renewed November 29, 1930, to Swan-Finch Oil Corporation, New York, N. Y., a Corporation of New York, assignee.

80,277. HAIRDRESSING AND HAIR TONIC. Registered November 29, 1910. GIROUX MANUFACTURING COMPANY, Buffalo, New York, a Corporation of New York. Renewed November 29, 1930.

80,399. REFINED PETROLEUM. Registered December 20, 1910. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed December 20, 1930.

80,449. CIGARETTES, CIGARS, SMOKING TOBACCO, AND CHEWING TOBACCO. Registered December 20, 1910. TEOFANI & Co., LIMITED, London, England, a Corporation of Great Britain. Renewed December 20, 1930.

80,466. PAPER. Registered December 27, 1910. DISTRICT OF COLUMBIA PAPER MANUFACTURING COMPANY, Alexandria, Va., and Washington, D. C. Renewed December 27, 1930, to District of Columbia Paper Manufacturing Company, Washington, D. C., a Corporation of Virginia.

80,515. FIRE BRICKS AND TILES AND BLOCKS MADE OF FIRE-BRICK MATERIAL. Registered January 3, 1911. GREENPOINT FIRE BRICK CO., New York, N. Y. Renewed January 3, 1931, to Greenpoint Fire Brick Co., Long Island City, N. Y., a Corporation of New York.

80,563. CLOTH-CLEANING PADS. Registered January 3, 1911. BRADFORD L. WILLIAMS, Philadelphia, Pa. Renewed January 3, 1931, to Bradford L. Williams, Camden, N. J.

80,573. CHOCOLATE CANDIES. Registered January 10, 1911. CENTRAL CANDY COMPANY. Renewed January 10, 1931, to Walter Birk Candy Company, Chicago, Ill., a Corporation of Illinois, assignee.

80,636. STOCK FOOD. Registered January 17, 1911. THE BLISH MILLING COMPANY, Seymour, Ind., a Corporation of Indiana. Renewed January 17, 1931.

80,637. WHEAT FLOUR. Registered January 17, 1911. THE BLISH MILLING COMPANY, Seymour, Ind., a Corporation of Indiana. Renewed January 17, 1931.

80,740. CORSETS AND WOMEN'S AND CHILDREN'S UNDERWAISTS. Registered January 24, 1911. SEARS, ROEBUCK AND CO., Chicago, Ill., a Corporation of New York. Renewed January 24, 1931.

80,767. PAPER. Registered January 31, 1911. DISTRICT OF COLUMBIA PAPER MANUFACTURING COMPANY, Alexandria, Va., and Washington, D. C. Renewed January 31, 1931, to District of Columbia Paper Manufacturing Company, Washington, D. C., a Corporation of Virginia.

80,768. LEAD PENCILS. Registered January 31, 1911. EAGLE PENCIL COMPANY. Renewed January 31, 1931, to Eagle Pencil Company, New York, N. Y., a Corporation of Delaware, assignee.

80,797. CANNED VEGETABLES. Registered January 31, 1911. OLNEY & FLOYD. Renewed January 31, 1931, to Olney & Floyd, Inc., Westernville, N. Y., a Corporation of New York, assignee.

80,798. CANNED VEGETABLES. Registered January 31, 1911. OLNEY & FLOYD. Renewed January 31, 1931, to Olney & Floyd, Inc., Westernville, N. Y., a Corporation of New York, assignee.

80,803. CIGARS. Registered January 31, 1911. CUESTA, REY & Co., Tampa, Fla., a Corporation of Florida. Renewed January 31, 1931.

80,870. FLEXIBLE METALLIC TUBING. Registered February 7, 1911. PENNSYLVANIA FLEXIBLE METALLIC TUBING COMPANY, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed February 7, 1931.

80,874. A CATHARTIC TABLET. Registered February 7, 1911. MAURICE F. SCHLESINGER. Renewed February 7, 1931, to Taps Products, Inc., New York, N. Y., a Corporation of New York, assignee by mesne assignments.

80,938. INTERLOCKING COMPOSITION FLOOR TILING. Registered February 14, 1911. DREADNOUGHT FLOORING COMPANY, as assignee of Axel W. Nilsson. Renewed February 14, 1931, to Dreadnought Flooring Co. Inc., New York, N. Y., a Corporation of New York, assignee by mesne assignments.

80,943. SILICATE OF SODA. Registered February 14, 1911. PHILADELPHIA QUARTZ COMPANY, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed February 14, 1931.

80,944. SILICATE OF SODA. Registered February 14, 1911. PHILADELPHIA QUARTZ COMPANY, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed February 14, 1931.

80,945. SILICATE OF SODA. Registered February 14, 1911. PHILADELPHIA QUARTZ COMPANY, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed February 14, 1931.

80,946. SILICATE OF SODA. Registered February 14, 1911. PHILADELPHIA QUARTZ COMPANY, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed February 14, 1931.

80,947. SILICATE OF SODA. Registered February 14, 1911. PHILADELPHIA QUARTZ COMPANY, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed February 14, 1931.

80,948. SILICATE OF SODA. Registered February 14, 1911. PHILADELPHIA QUARTZ COMPANY, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed February 14, 1931.

80,949. SILICATE OF SODA. Registered February 14, 1911. PHILADELPHIA QUARTZ COMPANY, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed February 14, 1931.

80,950. SILICATE OF SODA. Registered February 14, 1911. PHILADELPHIA QUARTZ COMPANY, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed February 14, 1931.

80,976. CARPET SWEEPERS. Registered February 21, 1911. BISSELL CARPET SWEEPER COMPANY. Renewed February 21, 1931, to Bissell Carpet Sweeper Company, Grand Rapids, Mich., a Corporation of Michigan, assignee.

80,977. CARPET SWEEPERS. Registered February 21, 1911. BISSELL CARPET SWEEPER COMPANY. Renewed February 21, 1931, to Bissell Carpet Sweeper Company, Grand Rapids, Mich., a Corporation of Michigan, assignee.

80,978. CARPET SWEEPERS. Registered February 21, 1911. BISSELL CARPET SWEEPER COMPANY. Renewed February 21, 1931, to Bissell Carpet Sweeper Company, Grand Rapids, Mich., a Corporation of Michigan, assignee.

80,979. CARPET SWEEPERS. Registered February 21, 1911. BISSELL CARPET SWEEPER COMPANY. Renewed February 21, 1931, to Bissell Carpet Sweeper Company, Grand Rapids, Mich., a Corporation of Michigan, assignee.

80,980. CARPET SWEEPERS. Registered February 21, 1911. BISSELL CARPET SWEEPER COMPANY. Renewed February 21, 1931, to Bissell Carpet Sweeper Company, Grand Rapids, Mich., a Corporation of Michigan, assignee.

80,981. CARPET SWEEPERS. Registered February 21, 1911. BISSELL CARPET SWEEPER COMPANY. Renewed February 21, 1931, to Bissell Carpet Sweeper Company, Grand Rapids, Mich., a Corporation of Michigan, assignee.

80,982. CARPET SWEEPERS. Registered February 21, 1911. BISSELL CARPET SWEEPER COMPANY. Renewed February 21, 1931, to Bissell Carpet Sweeper Company, Grand Rapids, Mich., a Corporation of Michigan, assignee.

81,092. STARCH FOR LAUNDRY AND GENERAL SIZING AND STIFFENING PURPOSES. Registered February 28, 1911. NATIONAL STARCH COMPANY, Jersey City, N. J., and New York, N. Y. Renewed February 28, 1931, to Corn Products Refining Company, New York, N. Y., a Corporation of New Jersey, assignee.

81,093. STARCH FOR EDIBLE PURPOSES. Registered February 28, 1911. NATIONAL STARCH COMPANY, Jersey City, N. J., and New York, N. Y. Renewed February 28, 1931, to Corn Products Refining Company, New York, N. Y., a Corporation of New Jersey, assignee.

81,099. SILICATE OF SODA. Registered February 28, 1911. PHILADELPHIA QUARTZ COMPANY, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed February 28, 1931.

81,164. WHEAT FLOUR. Registered March 7, 1911. THE NORTHWESTERN CONSOLIDATED MILLING COMPANY, Minneapolis, Minn., a Corporation of Minnesota. Renewed March 7, 1931.

81,165. CANNED SALMON. Registered March 7, 1911. PACIFIC AMERICAN FISHERIES, Chicago, Ill. Renewed March 7, 1931, to Pacific American Fisheries, South Bellingham, Wash., a Corporation of Maine.

81,202. A COMPOUND OF CORN, MOLASSES, AND SORGHUM SYRUP. Registered March 14, 1911. CORN PRODUCTS REFINING COMPANY, Jersey City, N. J., and New York, N. Y. Renewed March 14, 1931, to Corn Products Refining Company, New York, N. Y., a Corporation of New Jersey.

81,213. BAKING POWDER AND LAUNDRY STARCH. Registered March 14, 1911. S. HAMILL COMPANY, Keokuk, Iowa, a Corporation of Iowa. Renewed March 14, 1931.

81,256. CANNED SALMON. Registered March 21, 1911. DEMING & GOULD COMPANY, Chicago, Ill. Renewed March 21, 1931, to Deming & Gould Co., South Bellingham, Wash., a Corporation of Illinois.

81,285. COTTON SHEETINGS. Registered March 21, 1911. NAUMKEAG STEAM COTTON CO., Salem, Mass., a Corporation of Massachusetts. Renewed March 21, 1931.

81,289. CERTAIN SPORTING GOODS. Registered March 21, 1911. NORVELL-SHAPLEIGH HARDWARE COMPANY. Renewed March 21, 1931, to Shapleigh Hardware Company, St. Louis, Mo., a Corporation of Missouri, by change of name.

81,290. CERTAIN HARDWARE. Registered March 21, 1911. NORVELL-SHAPLEIGH HARDWARE COMPANY. Renewed March 21, 1931, to Shapleigh Hardware Company, St. Louis, Mo., a Corporation of Missouri, by change of name.

81,305. CERTAIN FOODS. Registered March 21, 1911. THE SCUDDERS-GALE GROCER CO., St. Louis, Mo., a Corporation of Missouri. Renewed March 21, 1931.

81,353. SILICATE OF SODA. Registered March 28, 1911. PHILADELPHIA QUARTZ COMPANY, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed March 28, 1931.

81,382. AN ANTISEPTIC. Registered April 4, 1911. SAMUEL CABOT INCORPORATED, Boston, Mass., a Corporation of Massachusetts. Renewed April 4, 1931.

81,411. CANNED SALMON. Registered April 4, 1911. PACIFIC AMERICAN FISHERIES, Chicago, Ill. Renewed April 4, 1931, to Pacific American Fisheries, South Bellingham, Wash., a Corporation of Maine.

81,438. WRITING AND PRINTING PAPER. Registered April 11, 1911. WILLIAM M. DONALDSON. Renewed April 11, 1931, to J. A. Donaldson, doing business as Donaldson Paper Company, Harrisburg, Pa., successor.

81,527. GLASS BOTTLES AND GLASS JARS. Registered April 18, 1911. HAZEL-ATLAS GLASS COMPANY, Wheeling, W. Va., a Corporation of West Virginia. Renewed April 18, 1931.

81,560. CERTAIN TOOLS AND MACHINERY. Registered April 18, 1911. VAN CAMP HARDWARE & IRON COMPANY, Indianapolis, Ind., a Corporation of Indiana. Renewed April 18, 1931.

81,563. ORANGES, LEMONS, GRAPEFRUIT, TANGERINES, AND LIMES. Registered April 18, 1911. WINTER GARDEN CITRUS GROWERS ASSOCIATION, Winter Garden, Fla., a Corporation of Florida. Renewed April 18, 1931.

LABELS

REGISTERED NOVEMBER 25, 1930

38,271.—*Title:* COMB HONEY WRAPPED IN CELLOPHANE. For Comb Honey. C. W. AEPPLER, doing business as C. W. Aeppler Company, Oconomowoc, Wis. Published April 26, 1930.

38,272.—*Title:* WRAPPED COMB HONEY. For Comb Honey. C. W. AEPPLER, doing business as C. W. Aeppler Company, Oconomowoc, Wis. Published April 26, 1930.

38,273.—*Title:* COMB HONEY INDIVIDUALLY PACKED. For Comb Honey. C. W. AEPPLER, doing business as C. W. Aeppler Company, Oconomowoc, Wis. Published April 26, 1930.

38,274.—*Title:* COMB HONEY SEPARATELY ENCLOSED. For Comb Honey. C. W. AEPPLER, doing business as C. W. Aeppler Company, Oconomowoc, Wis. Published April 26, 1930.

38,275.—*Title:* EVANGELINE FLOUR. For Flour. AMERICAN MAID FLOUR MILLS, Houston, Tex. Published March 3, 1929.

38,276.—*Title:* AMERICAN MAID FLOUR. For Flour. AMERICAN MAID FLOUR MILLS, Houston, Tex. Published September 2, 1929.

38,277.—*Title:* CHIEF FLOUR. For Flour. AMERICAN MAID FLOUR MILLS, Houston, Tex. Published November 1, 1929.

38,278.—*Title:* BARMON ART STYLED FROCKS. For Women's Frocks. BARMON BROTHERS COMPANY, INC., Buffalo, N. Y. Published October 17, 1930.

38,279.—*Title:* FOREST TREATS. For Pecans. D. CALAMARI COMPANY, Chicago, Ill. Published February 15, 1930.

38,280.—*Title:* MERCEDES HOSIERY DE LUXE. For Men's Hosiery. CHENANGO KNITTING COMPANY, INC., Sherburne, N. Y. Published July 2, 1929.

38,281.—*Title:* SHERBURNE HOSE. For Hosiery. CHENANGO KNITTING COMPANY, INC., Sherburne, N. Y. Published July 2, 1929.

38,282.—*Title:* INDEPENDENT MERCHANTS ARE THE BACKBONE OF OUR COUNTRY—TRADE WITH THEM. For Flour. CHEROKEE MILLS, also doing business as The Independent Flour Co., Nashville, Tenn. Published August 15, 1930.

38,283.—*Title:* SPRUCE BEER. For Spruce Beer. COURTOIS & BARIL, Chicago, Ill. Published January 1, 1929.

38,284.—*Title:* BEST—NEXT TO YOU. For Plasters. THE DEANE PLASTER CO., Yonkers, N. Y. Published July 18, 1930.

38,285.—*Title:* NO. 664 CREAMERY BUTTER. For Butter. W. W. DOANE, St. Louis, Mo. Published October 15, 1930.

38,286.—*Title:* NO. 662 CREAMERY BUTTER. For Butter. W. W. DOANE, St. Louis, Mo. Published October 15, 1930.

38,287.—*Title:* NO. 661 CREAMERY BUTTER. For Butter. W. W. DOANE, St. Louis, Mo. Published October 15, 1930.

38,288.—*Title:* NO. 663 CREAMERY BUTTER. FOR Butter. W. W. DOANE, St. Louis, Mo. Published October 15, 1930.

38,289.—*Title:* IMPERIAL BRAND SALTED IN THE SHELL. For Peanuts and Almonds. HELEN EMMA DOWNS, doing business as The Imperial Nut Products, Los Angeles, Calif. Published June 30, 1930.

38,290.—*Title:* OUR GANG. For Playthings. THE GRAY LITHOGRAPH COMPANY, New York, N. Y. Published November 20, 1928.

38,291.—*Title:* GRENNAN COOKIES. For Cookies. GRENNAN BAKERIES, INC., Chicago, Ill. Published September 15, 1930.

38,292.—*Title:* COLOR COMPARISON CARDS. For Booklet of Cards to Determine the Exact Shades of Butter. CHR. HANSEN'S LABORATORY INC., Little Falls, N. Y. Published September 29, 1930.

38,293.—*Title:* LEELANAU BRAND MICHIGAN NATURAL RED SOUR PITTED CHERRIES. For Canned Red Sour Pitted Cherries. THE HASEROT COMPANY, Cleveland, Ohio. Published July 1, 1929.

38,294.—*Title:* KRUEGER'S SARSAPARILLA. For Beverage. KRUEGER BEVERAGE COMPANY, Newark, N. J. Published May 22, 1930.

38,295.—*Title:* KRUEGER'S LIME DRY. For Beverage. KRUEGER BEVERAGE COMPANY, Newark, N. J. Published May 22, 1930.

38,296.—*Title:* KRUEGER'S CREAM SODA. For Beverage. KRUEGER BEVERAGE COMPANY, Newark, N. J. Published May 22, 1930.

38,297.—*Title:* LAFAYETTE AGUA CALIENTE HOT COFFEE BOTTLE. For Bottles Insulated with Cork and Asbestos for Holding Hot or Cold Beverages. O. J. LAFAYETTE & CO. LTD., Los Angeles, Calif. Published June 24, 1930.

38,298.—*Title:* SONNY SOUTH. For Buckwheat, Wheat and Corn Pancake Flour. LOUISVILLE MILLING COMPANY, Minneapolis, Minn. Published Sept. 16, 1930.

38,299.—*Title:* MILLER'S POP-PI-YA. For a Confection Composed of Blended Fruits. REINHOLD C. MILLER, Oakland, Calif. Published May 6, 1930.

38,300.—*Title:* NEIGHBORHOOD STORES. For Canned Pears. NEIGHBORHOOD STORES, INC., San Francisco, Calif. Published July 15, 1930.

38,301.—*Title:* PERFECTION DISTILLED WATER. For Distilled Water. PERFECTION EQUIPMENT CO., INC., St. Louis, Mo. Published September 15, 1930.

38,302.—*Title:* PURITAN PURE MALT EXTRACT. For Malt Extract. PURITAN MALT EXTRACT COMPANY, Milwaukee, Wis. Published July 1, 1930.

38,303.—*Title:* EDUCATIONAL LETTERS. For Letters of the Alphabet and Numerals. THE A. I. ROOT COMPANY, Medina, Ohio. Published June 5, 1930.

38,304.—*Title:* KEEP YOUR RUMIDOR LOADED WITH REFILLS. For Smoker's Article for Flavoring and Moistening Cigars, Cigarettes, and Pipe Tobacco. THE RUMIDOR CORPORATION, Weehawken, N. Y. Published August 22, 1930.

38,305.—*Title:* HOLSUM. For Bread. SCHULZE BAKING COMPANY, Chicago, Ill., and Kansas City, Mo. Published April 29, 1930.

38,306.—*Title:* QUAKER. For Bread. SCHULZE BAKING COMPANY, Chicago, Ill., and Kansas City, Mo. Published May 2, 1930.

38,307.—*Title:* EAT SCHNEIDER'S COFFEE CAKE. For Coffee Cake. WILLIAM SCHWEFER, Chicago, Ill. Published June 16, 1930.

38,308.—*Title:* ROYAL. For Gelatin Dessert. STANDARD BRANDS INCORPORATED, New York, N. Y. Published October 14, 1930.

38,309.—*Title:* CLUB CAR. For Coffee. STANDARD BRANDS INCORPORATED, New York, N. Y. Published October 17, 1930.

38,310.—*Title:* PAY-ROLL. For Overalls. SAM D. SURLOW, West Allis, Wis. Published June 2, 1930.

38,311.—*Title:* NIROSTA WARE. For Kitchen Ware and Food-Service Equipment. TRANSUE & WILLIAMS STEEL FORGING CORPORATION, Alliance, Ohio. Published July 2, 1930.

38,312.—*Title:* VARI-CHLOR-OSE. For Medicinal Preparation for the Treatment of Varicose Veins. ULMER LABORATORIES, Minneapolis, Minn. Published July 19, 1930.

PRINTS

REGISTERED NOVEMBER 25, 1930

12,824.—*Title:* YOU'VE GIVEN HER THE BIGGEST THING OF ALL. For Wheat Breakfast Food. THE CREAM OF WHEAT CORPORATION, Minneapolis, Minn. Published October 20, 1930.

12,825.—*Title:* BUSTER BROWN. For Shoes. A. W. GAYOU, doing business as the Gayou Sales Company, St. Louis, Mo. Published July 1, 1930.

12,826.—*Title:* DEPENDABLE MERCHANTS SYSTEM. For Advertising Food Products. NASH-FINCH COMPANY, doing business as Dependable Merchants System Stores, Minneapolis, Minn. Published December 18, 1929.

12,827.—*Title:* ANT OLIO. For a Preparation for Killing Ants. HARRY BRADLEE PRUDEN, De Land, Fla. Published July 21, 1930.

REISSUES

NOVEMBER 25, 1930

17,877. BUTTON. CHARLES M. BONDY, Cleveland, Ohio, assignor to The Bondy Auto Top Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 18, 1930. Serial No. 429,432. Original No. 1,688,520, dated Oct. 23, 1928, Serial No. 257,217, filed Feb. 27, 1928. 7 Claims. (24—103.)

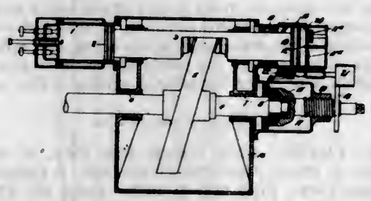


1. The combination with a button of a plurality of separate pin members secured to said button, at least one of said pin members being readily detachable from said button.

17,878. RESINOUS CONDENSATION PRODUCT. ANDRÉ HENRI VICTOR DURR, Paris, France, assignor to Compagnie Nationale de Matieres Colorantes et Manufactures de Produits Chimiques du Nord Reunies, Etablissements Kuhlmann, Paris, France, a Corporation of France. Filed Aug. 19, 1930. Serial No. 476,446. Original No. 1,739,447, dated Dec. 10, 1929, Serial No. 329,940, filed Jan. 2, 1929, and in France Dec. 31, 1927. 6 Claims. (Cl. 260—8.)

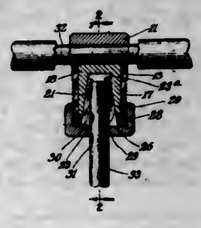
1. The method of preparing a resinous condensation product which consists in heating in an enclosed space under pressure a siccative oil and a synthetic resin having unesterified hydroxyl groups and formed by heating a polyhydric alcohol with a mixture of a polybasic acidic compound and at least one natural resin, the heating of said oil and resin being carried out at a temperature sufficiently high to produce a soluble reaction product in which the oil is chemically combined with said resin.

17,879. CONSTRUCTION OF OPERATING CRANKLESS INTERNAL COMBUSTION AND EXPLOSION ENGINES. ANTHONY GEORGE MALDON MICHELL, Melbourne, Australia, assignor, by mesne assignments, to Michell-Crankless Engines Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 16, 1930. Serial No. 482,346. Original No. 1,698,102, dated Jan. 8, 1929, Serial No. 202,897, filed July 1, 1927, and in Great Britain July 27, 1926. 22 Claims. (Cl. 123—58.)



4. In an internal combustion engine, a combustion cylinder, a swash plate having its axis of rotation parallel to the axis of the combustion cylinder, a power piston in the latter and arranged to coact with and rotate said swash plate, a compressor cylinder for supplying working fluid to the combustion cylinder having perforations in the wall thereof, a compressor piston in the compression cylinder overrunning said perforations to a variable extent according to the movement of the compressor piston and swash plate, and means for moving the swash plate and pistons in the direction of the axes of said cylinders, whereby the quantity of working fluid supplied to the combustion cylinder is varied simultaneously with the compressor volume therein.

17,880. CONNECTER. CHARLES L. STOELTZLEN, Erie, Pa., assignor to Penn-Union Electric Corporation, a Corporation of Pennsylvania. Filed July 29, 1930. Serial No. 471,516. Original No. 1,739,740, dated Dec. 17, 1929, Serial No. 332,810, filed Jan. 16, 1929. 5 Claims. (Cl. 173—303.)



1. In a cable connecter, a yoke member having a pair of legs for straddling a main cable and provided with threads on the external portion of the legs whereby the yoke member may be drawn against the cable with the same force on each leg, a body member positioned between said legs and having one end adapted to engage the main cable and the other end thereof provided with a tapered recess, a separate clamping sleeve for a branch cable positioned in said recess, and adapted to tighten on the branch cable by being forced into the recess and a nut engaging said threads for drawing the yoke member against one side of the main cable and having a surface for pressing the sleeve into the recess whereby the sleeve is clamped on the branch cable and the body member is simultaneously pressed against the main cable on the opposite side from the yoke, the surfaces of the sleeve and nut which transmit pressures therebetween lying substantially normal to the forces being transmitted between the nut and the main cable so that the friction between said surfaces is a minimum.

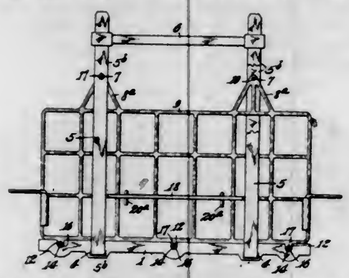
17,881. FASTENING FOR FABRICS AND THE LIKE. MARTIN WINTERHALTER, Halle-on-the-Saale, Germany, assignor, by mesne assignments, to Mishawaka Rubber & Woolen Manufacturing Company, Mishawaka, Ind., a Corporation of Indiana. Filed Oct. 7, 1926. Serial No. 140,186. Original No. 1,549,231, dated July 27, 1926, Serial No. 25,578, filed Apr. 24, 1925, and in Great Britain Dec. 31, 1924. 25 Claims. (Cl. 24—205.)



1. A device for connecting sheets of fabric or the like edge to edge, comprising a plurality of intermeshing

plates connected alternately to opposite edges of said sheets of fabric, each of the plates being provided at one side with a plurality of grooves carried at an angle to each other and at the other side with ribs adapted to interlock with the grooves of the adjacent plate so as to prevent displacement in the planes of the plates.

17,882. PICKLING CRATE. CHARLES W. HALLER, Wheeling, W. Va., assignor to Wheeling Bronze Casting Company, Wheeling, W. Va., a Corporation of West Virginia. Filed Mar. 26, 1930. Serial No. 439,232. Original No. 1,711,054, dated Apr. 30, 1929, Serial No. 308,782, filed Sept. 27, 1928. 9 Claims. (Cl. 266—7.)



1. A sheet pickling crate comprising a base, a plurality of integrally cast grids extending upwardly from said base, each of said grids comprising a plurality of horizontally disposed bars and a plurality of vertically disposed bars lying all in the same plane, said grids being attached to the base in mutually spaced arrangement to provide perforate sheet confining walls giving both vertical and lateral support to the faces of the sheets.

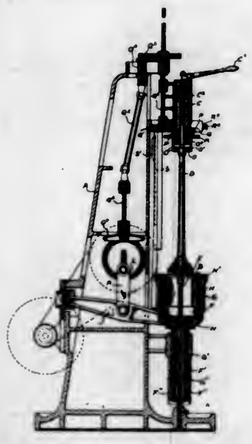
17,883. WOVEN-WIRE-CLOTH COVERING FOR PRESSING-MACHINE ELEMENTS. GEORGE F. SIMPSON, Boston, Mass., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Oct. 15, 1930, Serial No. 488,955. Original No. 1,639,458, dated Aug. 16, 1927, Serial No. 139,732, filed Oct. 5, 1926. 4 Claims. (Cl. 68—9.)



1. In a pressing machine, the combination of upper and lower pressing elements, one of which is movable toward and from the other and one being formed hollow for receiving a heating medium and provided with a line of jet openings through its pressing face for ejecting fluid, a metallic flexible sheet covering the pressing face of said element and spaced apart therefrom and formed with perforations throughout the greater part of the area thereof covering the pressing face forming a distributing chamber for the fluid ejected through said jet openings and said sheet having means in line with said jet openings for deflecting the fluid laterally through said chamber.

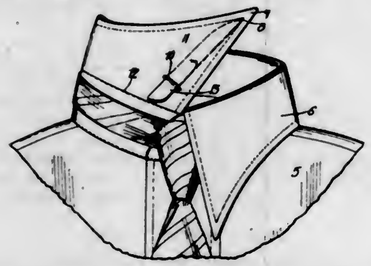
17,884. METHOD OF TRUING GEARS. ALEXANDER W. COPLAND, deceased, by Detroit & Security Trust Company, Detroit, Mich., assignee, and MAXWELL I. MATHEWSON, Providence, R. I., assignors to Detroit & Security Trust Company, Detroit, Mich. Filed Aug. 18, 1930. Serial No. 476,250. Continuation of original application Serial No. 551,141, filed Apr. 10, 1922, and in Great Britain Sept. 14, 1926. Original No. 1,683,867, dated Sept. 11, 1928. Filed Feb. 4, 1927, Serial No. 165,867. 18 Claims. (Cl. 51—278.)

1. The method of grinding gears comprising registering the gear to be ground and a lap having a parallel tooth contour, axially reciprocating the one with respect to the other into and out of mutual engagement, maintaining substantially throughout the mutual overlapping rela-



tion of the two substantially uniform torque pressure per unit area of mutual engagement, and progressively changing the registration between the teeth of the lap and those of the gear.

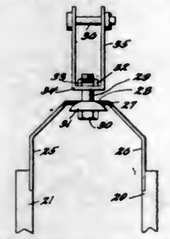
17,885. SHIRT-COLLAR STIFFENER. JOSEPH H. JANOWITCH, Brooklyn, N. Y. Filed July 30, 1930. Serial No. 471,906. Original No. 1,741,311, dated Dec. 31, 1929, Serial No. 288,456, filed June 26, 1928. 5 Claims. (Cl. 2—132.)



1. The combination with a soft collar comprising a plurality of plies of material having extended front points and stitched together by lines of stitching meeting at an acute angle at the points, and slits in the inner ply of the collar material spaced from the front ends of the collar and also spaced from the folded edge thereof, of stiffening strip members insertible between the inner and outer plies of the collar material through said slits said strip members having their lower ends curved at one side to form a point for fitting into the pocket, formed by the meeting of lines of sewing at the front points of the collar and having the upper ends rounded to closely fit into and conform to the shape of the folded edge of the collar, and said strip members extending into the points of the collar and being disposed in a direction opposing a curling action of said points.

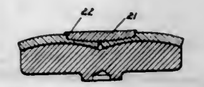
17,886. CRANE. LEON PIERCE, New York, N. Y., assignor to Pierce Steel Pile Corporation, a Corporation of New York. Filed May 5, 1928. Serial No. 275,532. Original No. 1,613,409, dated Jan. 4, 1927, Serial No. 89,034, filed Feb. 18, 1926. 2 Claims. (Cl. 61—74.)

1. In a crane, a boom, leads suspended from said boom, connecting means between said boom and leads permitting rotation of said leads and swinging of the same into a position parallel with the boom, said connecting means comprising a cradle pivoted to and suspended beneath said boom and an inverted U-shaped frame suspended beneath and rotatable relative to said cradle, a bolt connecting said frame and cradle, said frame having an opening permitting passage of said bolt, said opening being larger than said bolt, a block having a hemispherical upper sur-



face mounted on said bolt and upon which said frame is adapted to rest to permit movement of the frame in all directions and leads rigidly connected to the downwardly projecting arms of said frame, said leads being adapted to rest on the ground and to have their free ends located at various positions within the radius of the swing of said boom, substantially as described.

17,887. OPHTHALMIC LENS. EDGAR D. TILLYER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Aug. 21, 1930. Serial No. 476,895. Original No. 1,544,612, dated July 7, 1925, Serial No. 528,563, filed Feb. 23, 1922. 8 Claims. (Cl. 88—54.)

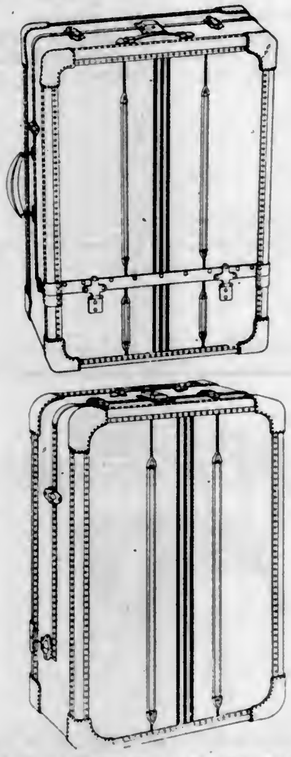


8. A multifocal lens comprising a major portion of glass of one index of refraction, and a minor portion of glass of a different index of refraction inserted in the major portion and both portions finished to one continuous curve, said minor portion tapering from a thick upper edge to a feather edge at its lowest point and the optical center of the minor portion being located near and below the thick edge at a point where a line drawn thru the center of curvature of the front and rear surfaces of the minor portion will, within the thickness of the minor portion be substantially coincident with a line drawn thru the centers of the inner surface of the minor portion and the inner surface of the major portion.

DESIGNS

NOVEMBER 25, 1930

82,596. TRAVELING CASE. SAUL APTER, Cincinnati, Ohio. Filed July 10, 1930. Serial No. 36,320. Term of patent 7 years.



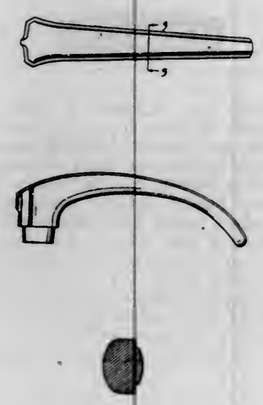
The ornamental design for a traveling case, as shown and described.

82,597. TEXTILE FABRIC. FRED W. BADER, Hillsdale, N. J., assignor to J. Kridel, Sons & Co., a Partnership of New York. Filed Sept. 24, 1930. Serial No. 37,062. Term of patent 3½ years.



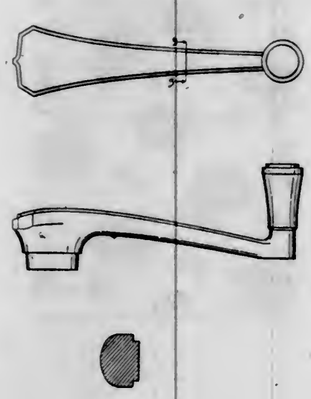
The ornamental design for a textile fabric as shown and described.

82,598. DOOR HANDLE. JAMES L. BROWNELL, Kalamazoo, Mich., assignor to Checker Cab Manufacturing Corporation, Kalamazoo, Mich. Filed Aug. 22, 1930. Serial No. 36,734. Term of patent 7 years.



The ornamental design for a door handle as shown.

82,599. WINDOW-REGULATOR HANDLE. JAMES L. BROWNELL, Kalamazoo, Mich., assignor to Checker Cab Manufacturing Corporation, Kalamazoo, Mich. Filed Aug. 22, 1930. Serial No. 36,735. Term of patent 7 years.



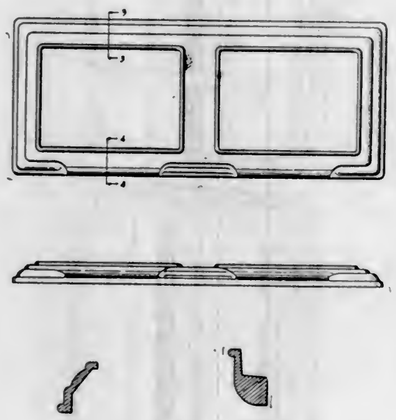
The ornamental design for a window regulator handle as shown.

82,600. HANDLE. JAMES L. BROWNELL, Kalamazoo, Mich., assignor to Checker Cab Manufacturing Corporation, Kalamazoo, Mich. Filed Aug. 22, 1930. Serial No. 36,737. Term of patent 7 years.



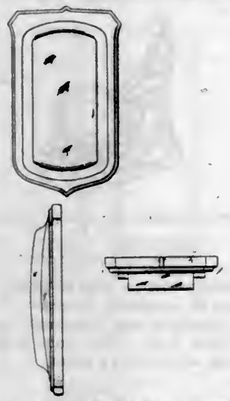
The ornamental design for a handle as shown.

82,601. PICTURE OR CARD HOLDER. JAMES L. BROWNELL, Kalamazoo, Mich., assignor to Checker Cab Manufacturing Corporation, Kalamazoo, Mich. Filed Aug. 22, 1930. Serial No. 36,740. Term of patent 7 years.



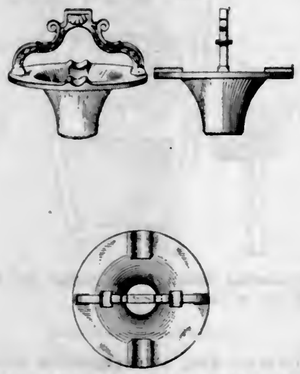
The ornamental design for a picture or card holder as shown.

82,602. LAMP HOUSING. JAMES L. BROWNELL, Kalamazoo, Mich., assignor to Checker Cab Manufacturing Corporation, Kalamazoo, Mich. Filed Aug. 22, 1930. Serial No. 36,741. Term of patent 7 years.



The ornamental design for a lamp housing as shown.

82,603. TOP FOR SMOKERS' STANDS. HUBERT DALTON, Stamford, Conn. Filed Aug. 12, 1930. Serial No. 36,639. Term of patent 14 years.



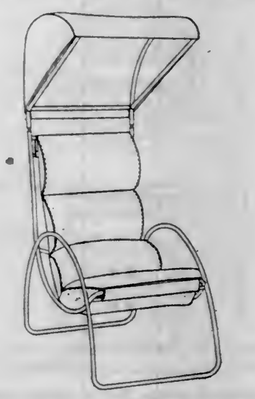
The ornamental design for a top for smokers' stands, as shown.

82,604. CHAIR OR SIMILAR ARTICLE. WILLIAM S. FERRIS, Elkhart, Ind. Filed May 9, 1930. Serial No. 35,558. Term of patent 14 years.



The ornamental design for a chair or similar article substantially as shown.

82,605. CHAIR. AVROM BAYAR GOODMAN, New York, N. Y., assignor to Ficks Reed Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 28, 1930. Serial No. 36,812. Term of patent 3½ years.



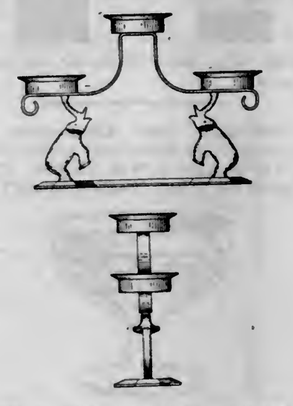
The ornamental design for a chair, as shown.

82,606. LAMP. FRANK GRITT, Indianapolis, Ind. Filed Sept. 12, 1930. Serial No. 36,948. Term of patent 3½ years.



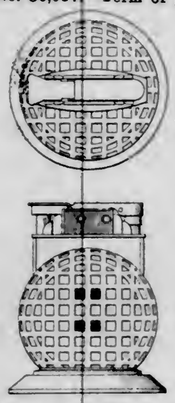
The ornamental design for a lamp as shown.

82,607. FLOWERPOT STAND OR SIMILAR ARTICLE. GEORGE HOLZWORTH, Halifax, Mass. Filed Sept. 10, 1930. Serial No. 36,926. Term of patent 3½ years.



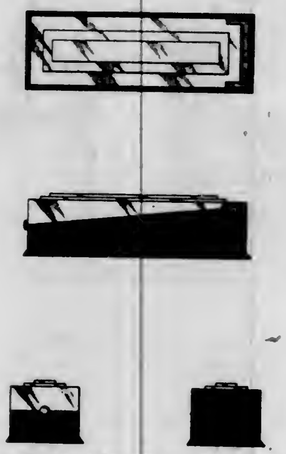
The ornamental design for a flowerpot stand or similar article as shown.

82,608. LIGHTER. JAMES W. JENNINGS, Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Sept. 13, 1930. Serial No. 36,957. Term of patent 7 years.



The ornamental design for a lighter substantially as shown.

82,609. CASING OR SIMILAR CONTAINER. ARCHDALE J. JONES, New York, N. Y., assignor to Bradford Darrach, Alan D. Marks, and Franklin J. Foster. Filed Dec. 12, 1929. Serial No. 33,760. Term of patent 7 years.



The design for a casing, or similar container substantially as shown.

82,610. SHERBET. JOHN KIRKPATRICK, Clarksburg, W. Va., assignor to Hazel-Atlas Glass Co., Wheeling, W. Va., a Corporation of West Virginia. Filed Dec. 27, 1929. Serial No. 33,945. Term of patent 7 years.



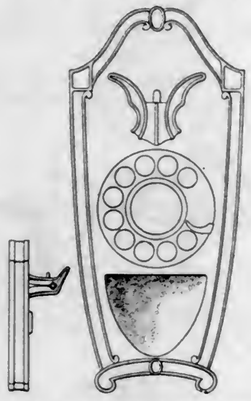
The ornamental design for a sherbet, as shown and described.

82,611. TABLE LAMP. MORRIS KORNBLUM, Brooklyn, N. Y., assignor to Metal Lamp Corporation, Brooklyn, N. Y., a Corporation of New York. Filed May 12, 1930. Serial No. 35,620. Term of patent 3½ years.



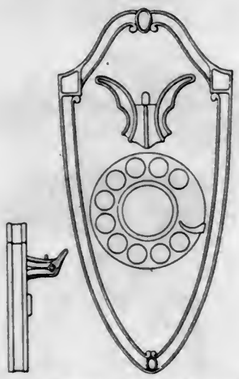
The ornamental design for a table lamp, as shown and described.

82,612. CASING FOR A TELEPHONE SUBSTATION SET. JAMES M. LABAUGH, Paterson, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed June 4, 1930. Serial No. 35,902. Term of patent 14 years.



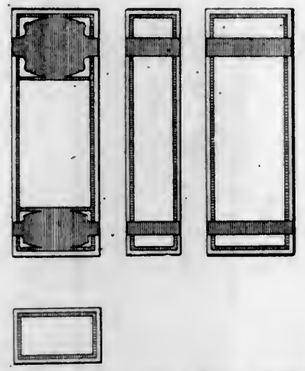
The ornamental design for a casing for a telephone substation set, as shown.

82,613. CASING FOR A TELEPHONE SUBSTATION SET. JAMES M. LABAUGH, Paterson, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed June 4, 1930. Serial No. 35,903. Term of patent 14 years.



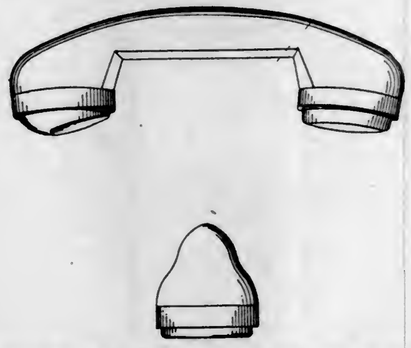
The ornamental design for a casing for a telephone substation set, as shown.

82,614. CARTON. MAX LIPPMANN, St. Louis, Mo., assignor to S. Pfeiffer Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed June 30, 1930. Serial No. 36,244. Term of patent 14 years.



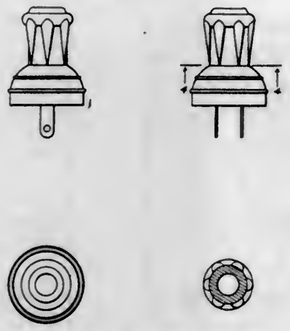
The ornamental design for a carton substantially as shown.

82,615. HAND TELEPHONE. LOUIS J. LOEFFLER, Stapleton, N. Y. Filed June 5, 1930. Serial No. 35,908. Term of patent 14 years.



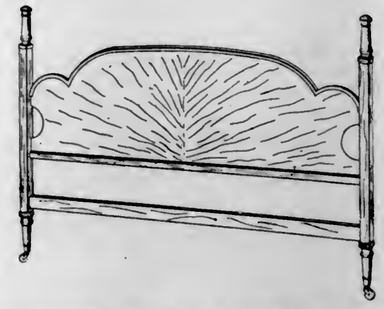
The ornamental design for a hand telephone as shown.

82,616. ATTACHMENT PLUG. LOUIS LUDWIG, Brooklyn, N. Y. Filed Sept. 12, 1930. Serial No. 36,955. Term of patent 7 years.



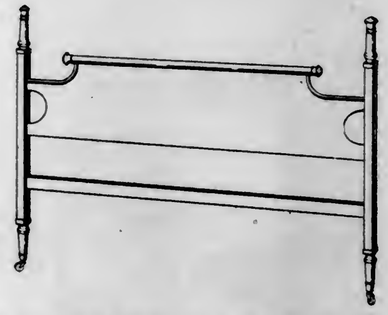
The ornamental design for an attachment plug, as shown.

82,617. BEDSTEAD END FRAME OR ANALOGOUS ARTICLE. JOHN MCKAY, Buffalo, N. Y., assignor to Hard Manufacturing Company, Buffalo, N. Y. Filed Sept. 9, 1930. Serial No. 36,912. Term of patent 7 years.



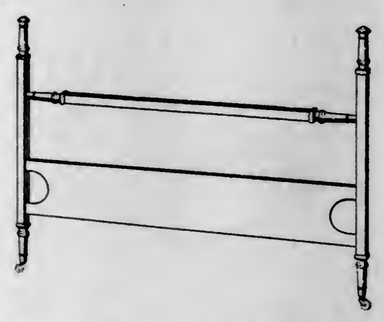
The ornamental design for a bedstead end frame or analogous article, substantially as shown and described.

82,618. BEDSTEAD END FRAME OR ANALOGOUS ARTICLE. JOHN MCKAY, Buffalo, N. Y., assignor to Hard Manufacturing Company, Buffalo, N. Y. Filed Sept. 9, 1930. Serial No. 36,913. Term of patent 7 years.



The ornamental design for a bedstead end frame or analogous article, substantially as shown and described.

82,619. BEDSTEAD END FRAME OR ANALOGOUS ARTICLE. JOHN MCKAY, Buffalo, N. Y., assignor to Hard Manufacturing Company, Buffalo, N. Y. Filed Sept. 9, 1930. Serial No. 36,914. Term of patent 7 years.



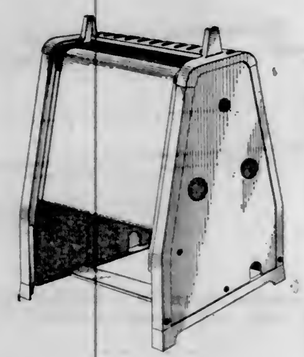
The ornamental design for a bedstead end frame or analogous article, substantially as shown and described.

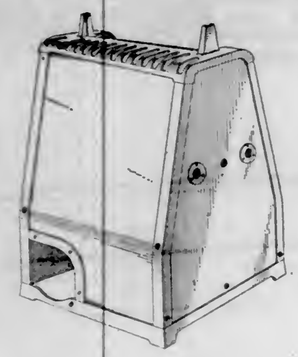
82,620. BEDSTEAD END FRAME OR ANALOGOUS ARTICLE. JOHN MCKAY, Buffalo, N. Y., assignor to Hard Manufacturing Company, Buffalo, N. Y. Filed Sept. 9, 1930. Serial No. 36,915. Term of patent 7 years.



The ornamental design for a bedstead end frame or analogous article, substantially as shown and described.

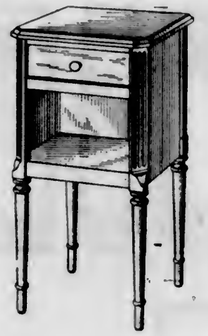
82,621. TOASTING-MACHINE CASING. LESTER E. PADELFORD, Buffalo, N. Y., assignor to The Republic Metalware Company, Buffalo, N. Y., a Corporation of New York. Filed Feb. 11, 1930. Serial No. 34,482. Term of patent 14 years.





The ornamental design for a toasting machine casing as shown.

82,622. NIGHT TABLE OR THE LIKE. ERWIN J. PAULI, Brooklyn, N. Y., assignor to Doehler Furniture Co. Inc., a Corporation of New York. Filed Apr. 16, 1930. Serial No. 35,271. Term of patent 7 years.



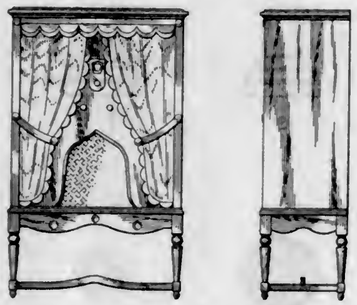
The ornamental design for a night table or the like, as shown.

82,623. CHEST OF DRAWERS OR THE LIKE. ERWIN J. PAULI, Brooklyn, N. Y., assignor to Doehler Furniture Co. Inc., a Corporation of New York. Filed Apr. 16, 1930. Serial No. 35,273. Term of patent 7 years.



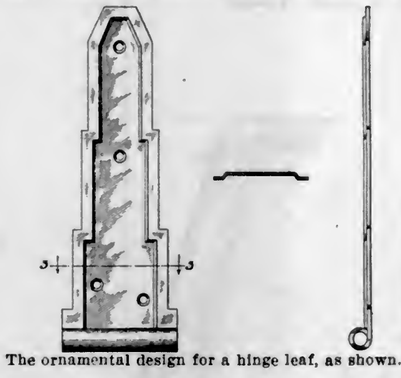
The ornamental design for a chest of drawers or the like, as shown.

82,624. RADIO AND TELEVISION CABINET. JOSEPH PHILLIPS, Denver, Colo. Filed Sept. 15, 1930. Serial No. 36,971. Term of patent 7 years.



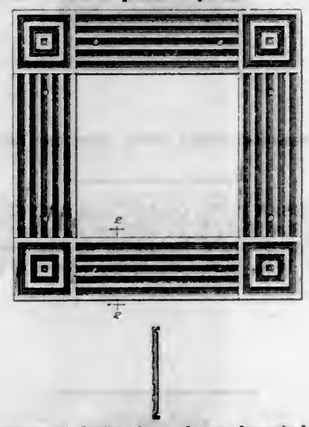
The ornamental design for a radio and television cabinet as shown.

82,625. HINGE LEAF. HORACE H. RAYMOND, Berlin, Conn., assignor to The Stanley Works, New Britain, Conn., a Corporation of Connecticut. Filed Apr. 5, 1930. Serial No. 35,177. Term of patent 14 years.



The ornamental design for a hinge leaf, as shown.

82,626. FRAME FOR WINDOWS OR THE LIKE. HENRY C. REUTER, Chicago, Ill. Filed June 14, 1929. Serial No. 31,680. Term of patent 7 years.



The ornamental design for a frame for windows or the like, as shown.

82,627. EMBOSSED GLASSINE PAPER. EDWIN H. SCHEELE, New York, N. Y., assignor to Westfield River Paper Company, Inc., Russell, Mass., a Corporation of Massachusetts. Filed July 10, 1930. Serial No. 36,317. Term of patent 14 years.



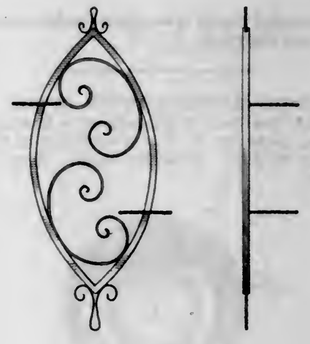
The ornamental design for embossed glassine paper as shown and described.

82,628. DOME LIGHT OR THE LIKE FOR AN AUTOMOTIVE VEHICLE. WILLIAM SCHNELL, Detroit, Mich., assignor to Ternstedt Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 22, 1929. Serial No. 33,138. Term of patent 7 years.



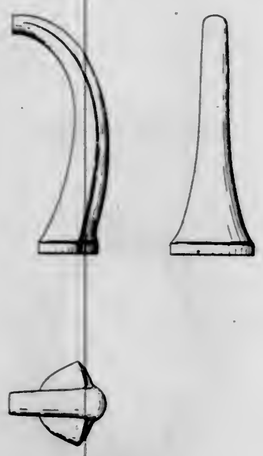
The ornamental design for a dome light or the like for an automotive vehicle substantially as shown.

82,629. WALL POT HOLDER. IRVING G. SCOTT and MAUD C. FOX, New York, N. Y. Filed July 24, 1930. Serial No. 36,462. Term of patent 7 years.



The ornamental design for a wall pot holder as shown.

82,630. DRAFT ARM FOR A SODA FOUNTAIN. DEAN C. SEITZ, Cleveland, Ohio, assignor to The Russ Manufacturing Company, a Corporation of Ohio. Filed July 12, 1930. Serial No. 36,338. Term of patent 7 years.



The ornamental design for a draft arm for a soda fountain, as shown.

82,631. PHOTOGRAPHIC-SHUTTER COVER. WALTER D. TEAGUE, New York, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed July 26, 1930. Serial No. 36,480. Term of patent 14 years.



The ornamental design for a photographic shutter cover as shown and described.

82,632. PHOTOGRAPHIC-SHUTTER COVER. WALTER D. TEAGUE, New York, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed July 26, 1930. Serial No. 36,481. Term of patent 14 years.



The ornamental design for a photographic shutter cover as shown and described.

82,633. PUSH BAR FOR DOORS. ERNEST L. TEICH, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut. Filed Jan. 10, 1930. Serial No. 34,093. Term of patent 14 years.



The ornamental design for a push bar for doors as shown.

82,634. SUGAR BOWL OR SIMILAR ARTICLE. HELEN UFFORD, New York, N. Y., assignor to Quaker Oats Company, Chicago, Ill., a Corporation of New Jersey. Filed June 28, 1930. Serial No. 36,218. Term of patent 3½ years.



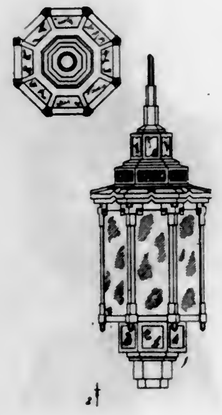
The ornamental design for a sugar bowl or similar article, as shown and described.

82,635. CUP OR SIMILAR ARTICLE. HELEN UFFORD, New York, N. Y., assignor to Quaker Oats Company, Chicago, Ill., a Corporation of New Jersey. Filed June 28, 1930. Serial No. 36,219. Term of patent 7 years.



The ornamental design for a cup or similar article, as shown and described.

82,636. STREET LAMP. WESTERN UNDERWOOD, Santa Monica, Calif. Filed Aug. 25, 1930. Serial No. 36,753. Term of patent 8½ years.



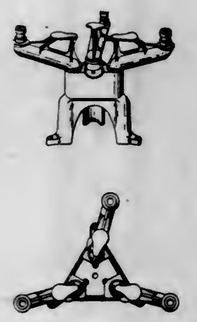
The ornamental design for a street lamp, as shown.

82,637. JUG. BEN H. WILSON, Toledo, Ohio, assignor to Owens-Illinois Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 29, 1930. Serial No. 35,070. Term of patent 14 years.



The ornamental design for a jug, substantially as shown and described.

82,638. BASE FOR A LAUNDRY APPLIANCE. JOHN G. FEHN, Des Moines, Iowa. Filed May 31, 1930. Serial No. 35,872. Term of patent 14 years.



The ornamental design for a base for a laundry appliance, as shown.

82,639. COMBINED SUPPORT AND HOUSING FOR AN ELECTRIC DISCHARGE DEVICE. OTTO J. MOHLER, Bloomfield, N. J., assignor to General Electric Vapor Lamp Company, Hoboken, N. J., a Corporation of New Jersey. Filed Sept. 25, 1929. Serial No. 32,862. Term of patent 14 years.



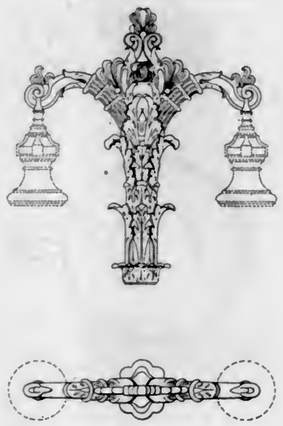
The ornamental design for a combined support and housing for an electric discharge device substantially as shown and described.

82,640. COLLAPSIBLE TUBE. FRANK J. LYNCH, Hillside, N. J., assignor to Pinaud, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 29, 1930. Serial No. 35,069. Term of patent 14 years.



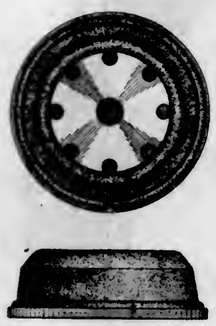
The ornamental design for collapsible tube substantially as shown and described.

82,641. LAMP SUPPORT. JOSEPH W. GOSLING, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 23, 1930. Serial No. 35,354. Term of patent 14 years.



The ornamental design for a lamp support substantially as shown.

82,642. RADIO LEG REST. MILTON A. RUSH, San Francisco, Calif. Filed June 7, 1930. Serial No. 35,970. Term of patent 7 years.



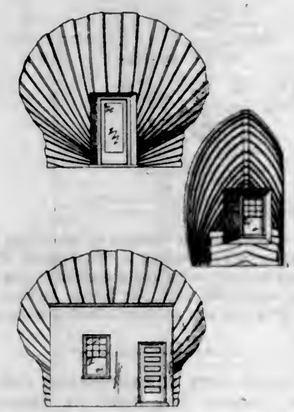
The ornamental design for a radio leg rest, as shown.

82,643. FURNITURE STAND. SUREN MATOSIAN, Los Angeles, Calif. Filed June 30, 1930. Serial No. 36,246. Term of patent 3½ years.



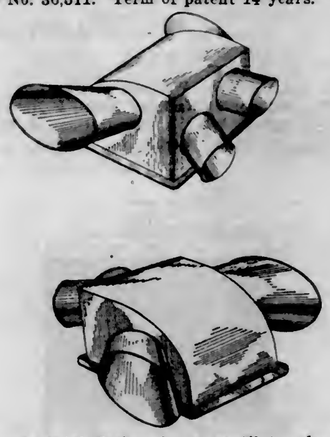
The ornamental design for a furniture stand as shown.

82,644. FILLING STATION. JOE H. GLENN, JR., and BERT L. BENNETT, Winston-Salem, N. C., assignors of one-third to Horace M. Du Bose, jr., and Robert C. Vaughn, Winston-Salem, N. C. Filed July 24, 1930. Serial No. 36,463. Term of patent 14 years.



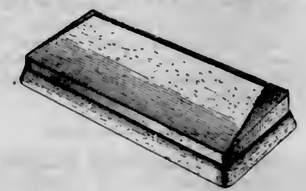
The ornamental design for a filling station as shown.

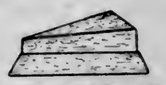
82,645. VENTILATOR FOR VEHICLES. CHARLES S. WARNOCK, Los Angeles, Calif. Filed July 29, 1930. Serial No. 36,511. Term of patent 14 years.



The ornamental design for a ventilator for vehicles, substantially as shown.

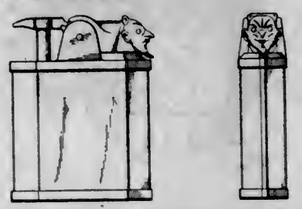
82,646. JEWELRY CONTAINER. JOHN M. SHIELDS, Chicago, Ill., assignor to F. H. Noble & Co., Chicago, Ill., a Corporation of Illinois. Filed June 20, 1929. Serial No. 31,772. Term of patent 14 years.





The ornamental design for a jewelry container, as shown.

82,647. CIGARETTE LIGHTER. IRVING FLORMAN, New York, N. Y. Filed Sept. 5, 1930. Serial No. 36,870. Term of patent 14 years.



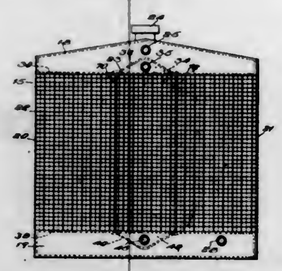


The ornamental design for a cigarette lighter as shown.

PATENTS

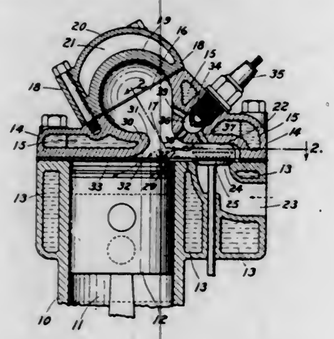
GRANTED NOVEMBER 25, 1930

1,782,394. RADIATOR. WILLIAM A. BEIMLING, Milwaukee, Wis., assignor to National Brake & Electric Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 16, 1926. Serial No. 129,303. 5 Claims. (Cl. 257—125.)



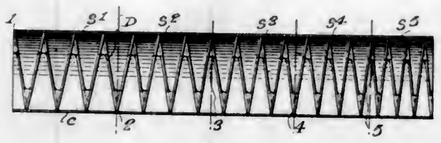
1. In a radiator, the combination of a pair of separate core structures, a single pair of headers common to both said core structures, said core structures having passages between said headers, said headers each having seaparate compartments connecting the passages of one core structure with each other, and the passages of the other core structure with each other, and separating the passages of the two core structures, a pair of inlet connections on one header for the two compartments thereof, and a pair of outlet connections on the other header, one for each of its compartments.

1,782,395. ENGINE COMBUSTION CHAMBER. FRANK A. BULLINGTON, Kansas City, Mo., assignor to Bullington Engine Heads, Kansas City, Mo., a Common-Law Trust consisting of Louis R. Ash, Howard P. Treadway, and Frank A. Bullington. Filed Mar. 10, 1927, Serial No. 174,285. Renewed Oct. 7, 1929. 20 Claims. (Cl. 123—191.)



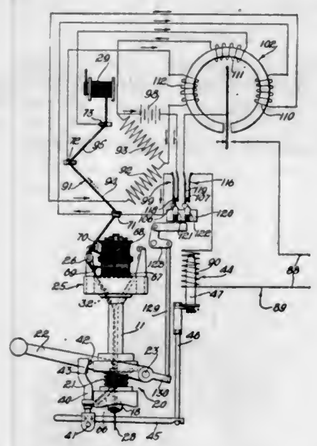
1. In an internal combustion engine, a cylinder, a cylinder head having a combustion chamber therein having restricted communication with said cylinder and adapted to contain the greater portion of the compression space for said cylinder, valved inlet and exhaust means at the head end of said cylinder and at the side thereof independent of said combustion chamber, and deflector means associated with said inlet means comprising a flat wall portion on said cylinder head between said inlet means and said combustion chamber.

1,782,396. MUFFLER. ARTHUR HARRY AARON, Amityville, N. Y., assignor to Fairchild Aviation Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 29, 1929. Serial No. 335,904. 9 Claims. (Cl. 137—160.)



1. In a muffler, a casing, baffling means of a substantially spiral form and of a pitch successively lessened in predetermined degrees at predetermined points throughout its length toward the outlet of said casing.

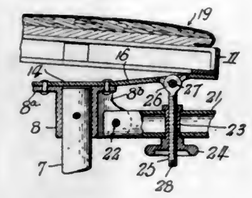
1,782,397. APPARATUS FOR TESTING ELECTRICAL CONDUCTORS. ARTHUR HERMAN ADAMS, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 21, 1925. Serial No. 70,456. 10 Claims. (Cl. 175—183.)



1. In an apparatus for testing an electrical conductor, an electrical circuit including a Wheatstone bridge, said bridge having an arm including a section of the conductor, and a relay associated with the bridge having a winding included in said arm and another winding connected across the bridge.

1,782,398. BACK-REST ARRANGEMENT FOR CHAIRS. TORRIS H. ALFREDS, Park Ridge, Ill., assignor to William S. Ferris, now trading as Do/More Chair Company, Elkhart, Ind. Filed June 13, 1928. Serial No. 284,966. 7 Claims. (Cl. 55—157.)

1. A chair embodying therein, a seat frame including a plate and a seat frame post to which said plate is secured, a back rest post pivoted at one end with respect to said seat frame, a threaded member pivoted to said seat frame plate for a swinging movement about an axis parallel with that of the back rest post, a hand wheel



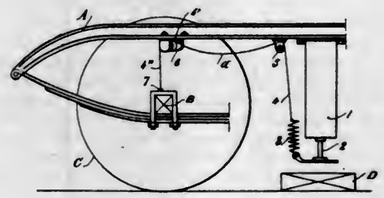
having a sleeve rotatively mounted with respect to said post and having operative engagement with said threaded member.

1,782,399. ABSORPTION OF SOUND. ERNEST V. AMY, New York, N. Y., assignor to Amy, Aceves & King, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 5, 1929. Serial No. 397,487. 12 Claims. (Cl. 181—30.)



1. A structure pierced with a multiplicity of cells respectively of greater length than width and open to permit the entry of sound energy into the air within them, each of said cells having a component of its length parallel to that face of the structure to which comes sound to be absorbed, and there being such a number of cells per unit volume of the structure as to absorb a material amount of the sound reaching the said face of the structure.

1,782,400. WHEEL-LIFTING DEVICE. ALFRED JEAN GUSTAVE BOLARD, Vernon, Eure, France, assignor to "Rusbol," Société à Responsabilité Limitée, Clichy, France, a Corporation of France. Filed June 21, 1928, Serial No. 287,192, and in France Mar. 29, 1928. 5 Claims. (Cl. 254—133.)



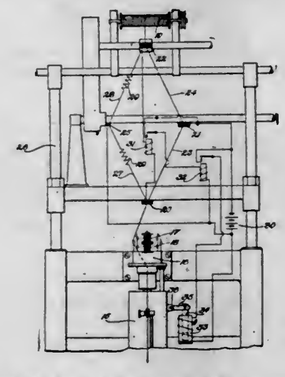
1. In a wheel lifting device for vehicles having a chassis, wheels and axles, the combination of a jack carried by said chassis, a cable attached to said axle, a fixed member on said chassis about which said cable is wrapped and a spring connecting said cable to one of the elements of said jack.

1,782,401. METHOD OF PRODUCING ROSIN OIL. JOSEPH N. BORGLIN, Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del., a Corporation of Delaware. Filed Jan. 2, 1929, Serial No. 329,966. Renewed Mar. 29, 1930. 18 Claims. (Cl. 87—2.)

1. The step in the method of producing rosin oil which includes heating rosin in the presence of a boron compound.

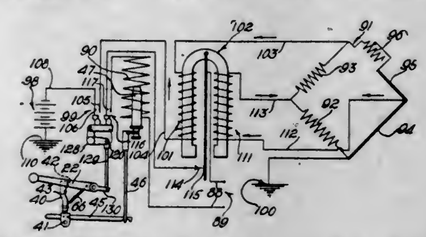
9. The method of producing rosin oil which includes heating wood rosin in the presence of about .05%–1.0% of a boron compound and then subjecting the rosin to destructive distillation.

1,782,402. APPARATUS FOR TESTING ELECTRICAL CONDUCTORS. GEORGE ALFRED BOUVIER, Oak Park, and HARRY LEWIS CASE, Maywood, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 15, 1924. Serial No. 699,433. 1 Claim. (Cl. 175—183.)



In apparatus for testing electrical conductors during the process of their manufacture a plurality of relatively stationary contacting members making sliding engagement with a conductor to be tested, means associated with the contacting members for sending electrical currents of predetermined, relative values through predetermined lengths of the conductor, means for advancing the conductor through said contacting members, and means operative contemporaneously with the advancement of the conductor for indicating a failure of said first-mentioned means to send said currents of predetermined, relative values through said predetermined lengths of the conductor when the conductivity of one length varies from a value assigned with respect to the conductivity of the other length.

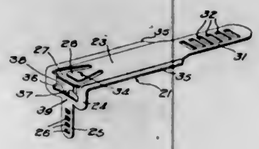
1,782,403. METHOD OF AND APPARATUS FOR TESTING ELECTRICAL CONDUCTORS. GEORGE ALFRED BOUVIER, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 21, 1925, Serial No. 70,453. Renewed Apr. 17, 1930. 17 Claims. (Cl. 175—183.)



1. A method of testing electrical conductors during the process of their manufacture, which consists in indicating

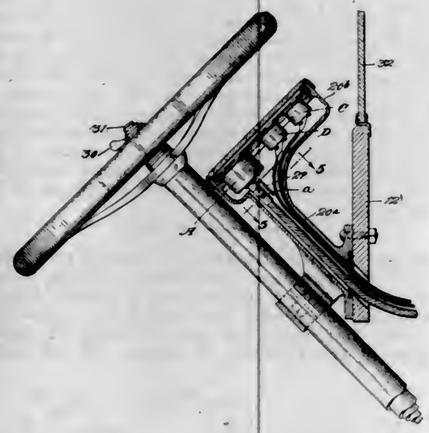
variations in conductivity between a predetermined length of a conductor and an element comprising a predetermined resistance and another portion of the conductor.

1,782,404. CLAMPING DEVICE. HEYWARD WIRGMAN BOWLY, Summit, and WILLIAM WINEBIDDLE MCWILLIAMS, South Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 30, 1929. Serial No. 359,344. 16 Claims. (Cl. 24—17.)



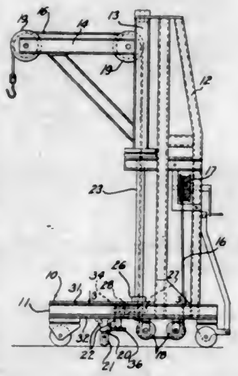
1. A clamping device comprising a two sided member, one side having a depressed prong and a plurality of spaced transverse slots for adjustable interlocking engagement with the depressed prong of another member and the other side having a portion for attachment to a supporting member.

1,782,405. INSTRUMENT-BOARD MOUNTING. HARRISON HURLBERT BOYCE, Jericho, N. Y. Filed Apr. 29, 1927. Serial No. 187,615. 11 Claims. (Cl. 180—90.)



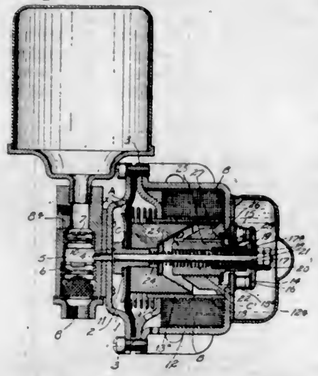
1. In a motor vehicle, in combination with a supporting dash and a steering column supported thereby, an intermediate bracket supporting said steering column comprising a hollow stem extending upwardly and parallel to said steering column, the upper part being enlarged to accommodate a plurality of instruments indicating various motor vehicle conditions.

1,782,406. PORTABLE CRANE. ARTHUR ALFRED BUREAU, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 27, 1928. Serial No. 308,601. 7 Claims. (Cl. 212—145.)



1. In a crane, a supporting frame, a mast rotatably supported thereby, a gib carried by said mast and rotatable therewith, an auxiliary crane supporting member extendible horizontally from the frame, and means actuated by the rotation of the gib for extending the member from the frame.

1,782,407. SOLENOID MOTOR FOR FUEL PUMPS. WILLIAM C. CARTER, Flint, Mich. Original application filed Sept. 28, 1925, Serial No. 59,149. Divided and this application filed Nov. 14, 1928. Serial No. 319,241. 6 Claims. (Cl. 172—126.)

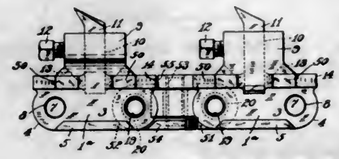


1. In a motor, a solenoid having a movable core, an intermittently operating switch for governing the energizing circuit of said solenoid, a spring for holding the contacts of said switch closed during the stroke of the core of the solenoid in one direction, and a separate means of greater force for holding said contacts open during the stroke of the core of the solenoid in the opposite direction.

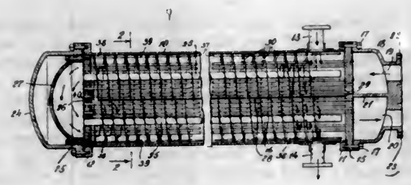
1,782,408. MINING-MACHINE CUTTER CHAIN. FRANK CARTLIDGE, Cincinnati, Ohio, assignor to Cincinnati Mine Machinery Co., Cincinnati, Ohio, a Corporation of Ohio. Filed July 11, 1924. Serial No. 725,371. 4 Claims. (Cl. 262—33.)

3. A cutter chain comprising a multiplicity of main links having guide ribs, and a multiplicity of interspersed

connector links, each connector link comprising two elements, each articulated with an adjacent main link and the axes of such articulations being substantially parallel and at right angles to the axis of articulation of the two elements, one of said connector link elements carrying guide ribs alignable with the guide ribs of the main link.



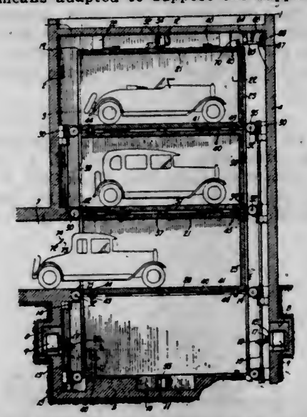
1,782,409. HEAT EXCHANGER. STANLEY J. CHUTE, Ridgewood, N. J., assignor to The Griscom-Russell Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 19, 1927. Serial No. 240,957. 4 Claims. (Cl. 257—239.)



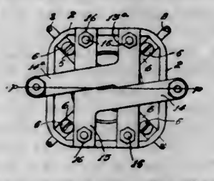
1. In an apparatus of the character described, a tubular shell forming a chamber for the fluid to be acted upon and having inlet and outlet passages for said fluid at one end of the shell, a plurality of tubes within the shell for the circulation of the working fluid, means for delivering and discharging the working fluid to and from said tubes, a flat longitudinal plate arranged diametrically across the interior of the shell and extending substantially from one end thereof to the other so as to cause the fluid to be acted upon to travel from the inlet to the opposite end of the shell and thence to return within the shell to the outlet, an elongated core member extending substantially centrally of the semi-circular chamber above said longitudinal plate, and a second similar core member positioned in the semi-circular chamber below the plate, a plurality of semi-circular sheets of thin metal each perforated centrally and arranged in spaced relation upon the core members in each of said semi-circular chambers, the bases of said baffle elements being placed against the flat surface of said longitudinal plate and arranged in substantially parallel relation at an angle to the axes of the core members, the baffle elements each being severed radially from the core member to their respective semi-circular edges, and the severed portions of each element being offset with respect to one another, the severed edge of one element being secured to the oppositely directed severed edge of its adjacent element thereby forming a continuous substantially helical passageway throughout the length of each of said semi-circular chambers.

1,782,410. STORAGE GARAGE. L. D. COOK, Kansas City, Mo. Filed Feb. 1, 1928. Serial No. 251,042. 9 Claims. (Cl. 214—16.1.)

1. In a storage garage, supports for vehicles, linkage means on the supports for connecting the supports in tiers, means for moving the supports vertically in tiers including means adapted to support the supports during horizontal movement, means for effecting horizontal movement of the supports, and means for controlling said movements.

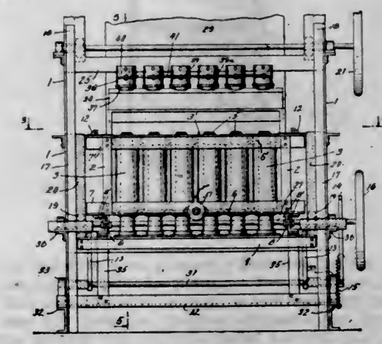


1,782,411. SOCKET. HIRAM D. CURRIER, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 19, 1925. Serial No. 16,623. 3 Claims. (Cl. 248—30.)



1. A device of the character described comprising a tube socket, a baseboard, and a pair of flexible supporting members each having a main portion and an integrally formed flexible extension arm adapted to pass under the main portion of the other member and provided with orifices lying in the same vertical plane adapted to engage screws to balance the said tube socket and to non-rigidly support the said tube socket in mobile relation to the said baseboard.

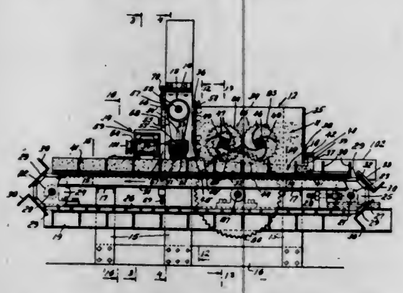
1,782,412. CONCRETE-PIPE MOLD. CHARLES DIETRICHS, Little Ferry, N. J., assignor to Walker Cement Products, Inc., Union City, N. J., a Corporation of New Jersey. Filed Apr. 23, 1926. Serial No. 104,046. 7 Claims. (Cl. 25—30.)



1. In a machine for molding a friable plastic material in a comparatively dry condition, a molding form com-

prising sections separable from one another to allow the molded material to be removed therefrom, one of said sections being perforated throughout substantially its entire surface so as to prevent portions of the molded material from adhering thereto when said section is removed from contact with the material while the material is still plastic.

1,782,413. CONCRETE-BRICK MANUFACTURE. CHARLES DIETRICHS, Little Ferry, N. J., assignor to Walker Cement Products, Inc., Union City, N. J., a Corporation of New Jersey. Filed Apr. 23, 1926. Serial No. 104,047. 11 Claims. (Cl. 25—99.)



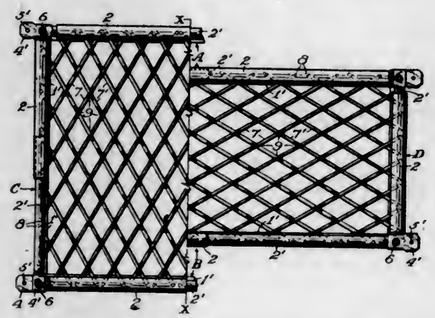
1. A machine of the character described comprising a bed, mold-filling means and mold-packing means above the bed, an endless belt moving over the bed beneath the filling and packing means and carrying a plurality of pallet holders having upstanding rear walls provided with spaced slots, pallets supported on the holders and bridging the spaces between adjacent upstanding walls, a plurality of elongated stationary bars received within said slots and supported in contact with the pallets, said bars having upwardly extending shanks at their front ends the pallets and holders forming with said bars a plurality of molding forms extending both lengthwise and transversely of the apparatus, a slotted member extending crosswise in front of said mold filling means, the shanks of said stationary bars fitting within said slots, and means for retaining said shanks therein.

1,782,414. CABINET SUITCASE. CAROLINE K. DUER, New York, N. Y. Filed Feb. 18, 1928. Serial No. 255,310. 2 Claims. (Cl. 190—41.)



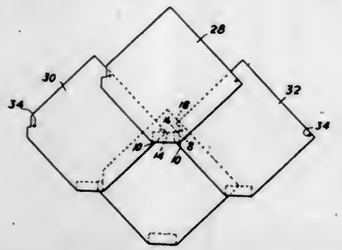
1. A cabinet suit-case consisting of a principal portion divided into a central compartment adapted for carrying a broad brimmed and a narrow brimmed hat and surrounding compartments severally adapted for carrying wearing apparel and toilet articles, said wearing apparel compartments having their bottoms parallel to the bottom of said suitcase, so that folded garments shall lie flat when packed and when carried therein, and a second portion having a form secured thereon for holding a hat in position, which portion is hinged to said principal portion for opening and closing said compartments, and spaced from said compartments to accommodate the brim of a broad brimmed hat between said two portions.

1,782,415. ADJUSTABLE GUARD FOR OPENINGS. JOHN F. FARMER, Indianapolis, Ind. Filed July 24, 1929. Serial No. 380,731. 3 Claims. (Cl. 20—71.)



1. An adjustable guard including a frame comprising two side rails and two end rails having each an outer hollow section and an inner hollow section shiftable therein, each section being open at one side thereof and having an inwardly extending guide bar on one side of the opening, one end of each outer section being connected to one end of an inner section, and offset interwoven wire lattice bars extending loosely into said openings and having each a crook shiftably guided on one of said guide bars.

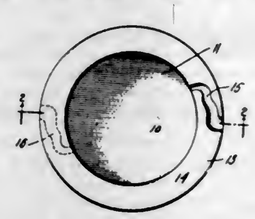
1,782,416. SURFACE COVERING AND METHOD OF MAKING THE SAME. WILLIAM FREEGARD, Elizabeth, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa., a Corporation of West Virginia. Filed Jan. 14, 1928. Serial No. 246,712. 4 Claims. (Cl. 108—7.)



3. A shingle comprising a body portion of substantially quadrilateral shape having a tab at one corner thereof adapted to be folded beneath the body portion of the shingle, an adjacent corner of the body portion being truncated to form a stepped edge, the part of said edge nearest the tab being extended farthest outwardly and outlining a projection on said body portion, the said projection being adapted to engage with the tab of a similar shingle of a superjacent course.

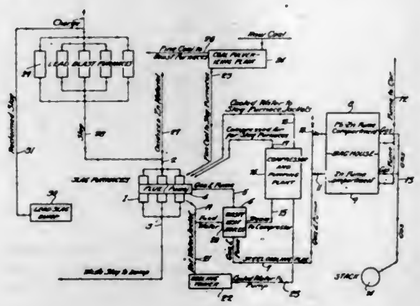
1,782,417. DEVICE FOR PREVENTING BOILING OVER OF MILK. EUGENE FRIED, Newark, N. J. Filed Jan. 20, 1930. Serial No. 422,121. 1 Claim. (Cl. 53—1.)

A device for preventing boiling over of milk comprising a disk provided with a concavity in one of its faces having a peripheral rim on said face of substantial width, said rim having a flat face adapted to contact with a vessel bottom, said rim being provided in its flat face with a



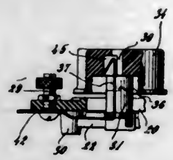
circuitous groove leading from said concavity to the disk periphery, said groove increasing gradually in width and depth from said concavity to the disk periphery.

1,782,418. RECOVERING METALS. ULYSSES A. GARRED, Jackson Heights, N. Y., assignor to Anaconda Copper Mining Company, a Corporation of Montana. Filed Apr. 8, 1927. Serial No. 181,979. 3 Claims. (Cl. 75—17.)



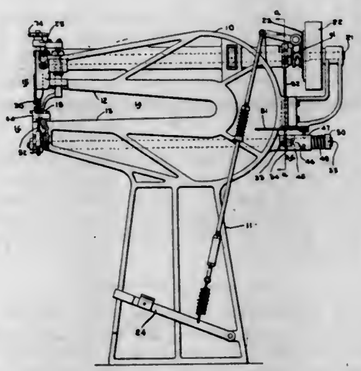
1. In the recovering of volatile metals from slag and the like, the method which consists in forcing through the molten slag finely divided fuel and air, introducing the fuel with air under high pressure and introducing air separately under low pressure and collecting the resulting fume.

1,782,419. TUBE SOCKET. JOHN GELOSO, New York, N. Y., assignor, by mesne assignments, to Pilot Radio & Tube Corporation, Brooklyn, N. Y., a Corporation of Delaware. Filed Mar. 21, 1927. Serial No. 176,862. 2 Claims. (Cl. 173—328.)



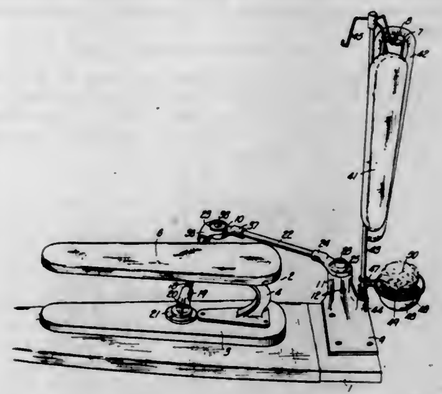
1. In a device of the class described, the combination with a supporting member, contact terminals on said supporting member, a head member having apertures therein for the passage of prongs therethrough, and flexible conductor members, having one extremity positioned within said head member, and the other extremity fastened to the contact terminals on said supporting member, said head member being thereby floatingly supported with respect to the supporting member, and means attachable to said head member, and through which said flexible conductor members pass, for limiting the movement of the head member with respect to the supporting member.

1,782,420. CUTTING MACHINE. CHARLES BAXTER GRAY, Millbourne, Pa. Filed Apr. 13, 1927. Serial No. 183,503. 15 Claims. (Cl. 164—50.)



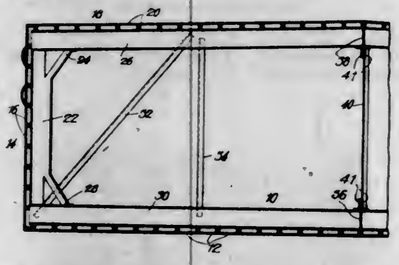
1. In apparatus of the character described the combination of a cooperating punch and die, a feed limiting member disposed in opposed relation with respect to the punch, mechanism for reciprocating the punch, and mechanism driven by the first mechanism and including a clutch for moving the feed limiting member in like directions simultaneously with and substantially to the same extent as the punch.

1,782,421. IRONING BOARD. ARO M. HARVEY, Kansas City, Mo. Filed Aug. 30, 1928. Serial No. 302,985. 5 Claims. (Cl. 68—10.)



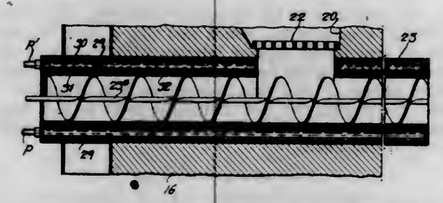
1. In a device of the character described, a support, an ironing board, and means supporting the ironing board from the support including a bracket fixed to the support, a bracket arm connected to the board, and a bracket arm having a rule joint connected with the first named arm and pivoted in the bracket.

1,782,422. STEEL HULL AND METHOD OF BUILDING THE SAME. GORDON G. HOLBROOK, Maplewood, N. J. Filed Mar. 8, 1928. Serial No. 260,029. 12 Claims. (Cl. 114—79.)



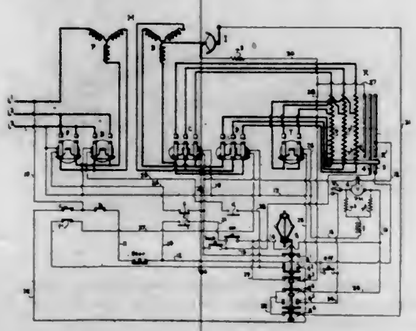
9. A vessel having a hull comprising a multiplicity of run-of-the-mill rolled steel sections having slightly varying widths, said sections being arranged alongside one another with spacing members of varying thicknesses between them and fused metal seams closing the spaces between said sections.

1,782,423. CONVEYER. JOHN WILLIAM HORNSEY, Summit, N. J., assignor to Granular Iron Company, a Corporation of Michigan. Original application filed Sept. 8, 1926, Serial No. 134,287. Divided and this application filed Mar. 18, 1929. Serial No. 348,066. 5 Claims. (Cl. 263—1.)



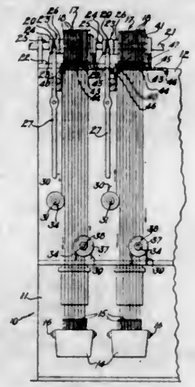
1. A conveyer for hot material having a central conveyer tube, an intermediate tube separated from the first and having an insulating medium between the two, and a third tube surrounding the intermediate tube with means for passing water between the intermediate tube and the third one.

1,782,424. MOTOR CONTROLLER. RICHARD B. HUNTER, Shorewood, Wis., assignor, by mesne assignments, to Cutler-Hammer Inc., Milwaukee, Wis., a Corporation of Delaware. Filed Aug. 24, 1928. Serial No. 301,795. 13 Claims. (Cl. 172—179.)



1. The combination with a motor, of starting and speed regulating means for said motor including a device responsive to the motor speed and a power operated regulating device operative automatically under control by the former device to maintain a substantially constant speed of said motor, said means affording regulation of said motor for a relatively slow speed or a relatively high speed as desired, and further including means rendering said devices effective for constant speed regulation of the motor when the latter operates at the aforementioned slow speed and ineffective therefor when said motor operates at the aforementioned high speed.

1,782,425. APPARATUS FOR COATING STRANDS. RICHARD DALE JESSUP, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 24, 1926. Serial No. 104,360. 4 Claims. (Cl. 91—17.)



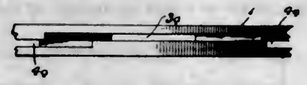
2. In a strand coating apparatus, a coating bath, an oven for baking successive coatings thereon, a plurality of independently rotatable idler pulleys in the bath, a capstan positioned above the pulleys and provided with a plurality of peripheral grooves of gradually increasing diameters for continuously advancing and stretching successive portions of a strand with a tension uniformly distributed among the successive portions thereof as the portions pass through the oven.

1,782,426. PISTON RING. CHARLES E. JOHNSON, Muskegon, Mich., assignor to The Piston Ring Company, Muskegon Heights, Mich., a Corporation of Michigan. Filed Aug. 27, 1928. Serial No. 302,166. 1 Claim. (Cl. 74—109.)



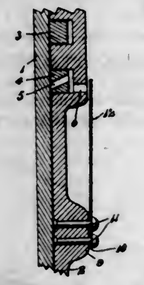
In combination with a piston having a ring groove therein and drainage openings extending from the ring groove to the interior of the piston, and a cylinder in which said piston is adapted to reciprocate, of a piston ring located within said ring groove, said ring being of metal and comprising upper and lower sections, the upper section having somewhat greater width than the lower section and bearing at its outer curved side against the inner walls of the cylinder, the outer curved side of the lower section being spaced from said inner walls of the cylinder, said lower section of the ring having slots therethrough connecting the space between the inner walls of the cylinder and the outer curved side of said lower section with said drainage openings, said upper section of the ring having a continuous groove, rectangular in cross section, formed therein in its outer curved side.

1,782,427. PISTON RING. CHARLES E. JOHNSON, Muskegon, Mich. Filed Sept. 4, 1928. Serial No. 303,796. 3 Claims. (Cl. 74—109.)



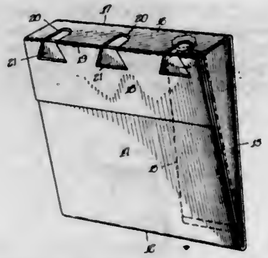
1. A piston ring having a series of spaced apart horizontal slots cut therethrough from its outer curved to its inner curved sides, all of the slots of said series lying in the same horizontal plane, a second series of horizontal slots similarly cut through said ring and lying below the first series, the slots of the second series being in staggered relation to those of the first series and having their ends overlapping the ends of the adjacent slots of said first series, the plane of the upper side of the slots of said second series being substantially coincident with the plane of the lower side of the slots of the first series.

1,782,428. OIL-CONSERVING PISTON. CHARLES E. JOHNSON, Muskegon, Mich. Filed May 12, 1930. Serial No. 451,801. 10 Claims. (Cl. 74—108.)



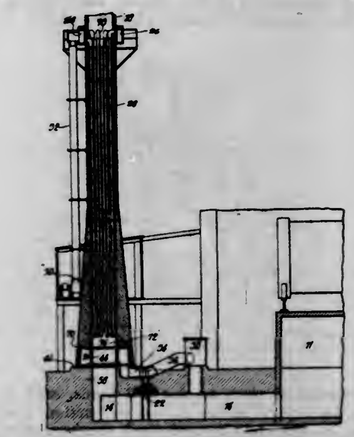
1. A piston provided with a groove around the same in which oil may enter and having oil drainage openings from said groove to the interior of the piston, and means attached to the inner side of the piston and extending over the inner ends of said oil drainage passages, automatically operated by the increase and decrease of air pressures within the piston over and under normal pressure, to move said means into closing engagement with the ends of said passages on increase of air pressure above normal pressure and away from the inner ends of said passages to open the same on decrease of air pressure below normal pressure.

1,782,429. COLLAPSIBLE TUBE PROTECTOR. NORMAN O. JOHNSON, Chicago, Ill., assignor to Illinois Carton & Label Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 21, 1929. Serial No. 348,712. 5 Claims. (Cl. 206—65.)



1. A protector for collapsible tubes, comprising a sheet of relatively stiff material folded along a cross line to afford a pair of diverging side-walls, one of said walls having an end-wall integral therewith and at substantially right-angles thereto, said end-wall having a flap integral therewith and bent to overlap the other side-wall, said end-wall having a slot therethrough to accommodate the neck only of a collapsible tube, said flap having an enlarged extension of said slot of sufficient size to permit the passage of the cap of said neck therethrough whereby to allow the introduction of the tube into said protector.

1,782,430. RECUPERATOR. WALTER J. KELLY and MILTON P. BURNS, Fairfield, and ARCHIE BARR, Wylam, Ala. Filed Apr. 17, 1929. Serial No. 355,808. 6 Claims. (Cl. 263—20.)



3. Recuperator apparatus comprising a stack of brick construction having an outer steel shell, an upper header secured to said shell at a great distance above the base, a lower header, tubes within the stack, fittings secured to and extending inwardly from said upper header, said tubes having heads with packing rings which make a sliding fit with said fittings.

1,782,431. HANDLE FOR WOODEN BASKETS. HENRY W. KRAMER, Kingston, N. Y., assignor to Ralph P. Young, Marlboro, N. Y. Filed May 14, 1926. Serial No. 109,029. 8 Claims. (Cl. 217—125.)

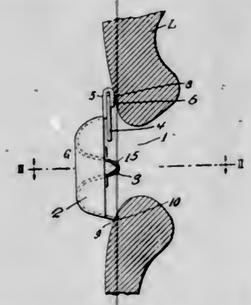


1. In a handle for wooden baskets, the combination with a pair of metallic attaching members adapted to be secured to the basket adjacent to its upper edge only, and provided with guiding and locking portions at different points vertically thereof, a separately formed metallic bail member having a hand engaging portion and downwardly extending arms, each provided with guiding and interlocking portion of said attaching members, and anchoring devices for connecting each of said attaching members with the bottom of the basket, to relieve the sides of the basket from the weight of the contents.

1,782,432. SYNTHESIS OF DIACETYL-3,3'-DIAMINO-4,4' - DIHYDROXY - 5,5' - DIIODOARSENOBENZENE. ALEXANDER DOUGLAS MACALLUM, Perth Amboy, N. J. Filed Mar. 30, 1928, Serial No. 266,120, and in Great Britain May 4, 1927. 2 Claims. (Cl. 260—15.)

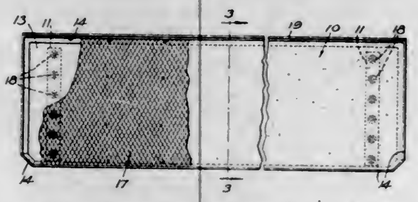
2. As a new product, diacetyl-3,3'-diamino-4,4'-dihydroxy - 5,5' - diiodoarsenobenzene, said product being a lemon-yellow solid soluble in acetone, phenol, bencaldehyde and pyridine.

1,782,433. TONGUE AND TEETH SET FOR DOLLS AND THE LIKE. SAMUEL MARCUS, Brooklyn, N. Y., assignor to Markon Manufacturing Co., Inc., New York, N. Y., a Corporation of New York. Filed Oct. 4, 1927. Serial No. 223,942. 5 Claims. (Cl. 46—40.)



1. A tongue and teeth set for doll heads, said set comprising a base part having a tongue portion projecting therefrom, a separately formed teeth member, and clamp means comprised in the structure for gripping and frictionally retaining the teeth member connected in position.

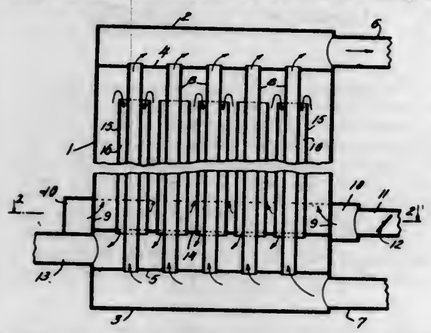
1,782,434. TABLE CONSTRUCTION. LEE ROY MCGUIRE, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 4, 1928. Serial No. 303,772. 8 Claims. (Cl. 45—31.)



1. In a table construction, a receptacle, means having a plurality of angularly disposed surfaces attached to and abutting the inner horizontal surface thereof, and a composition surrounding the angularly disposed surfaces of said means and substantially filling the receptacle.

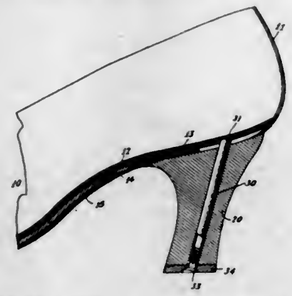
1,782,435. APPARATUS FOR COOLING FLUIDS. HENRY F. MERRIAM, West Orange, N. J., assignor to General Chemical Company, New York, N. Y., a Corporation of New York. Filed Nov. 9, 1926. Serial No. 147,245. 4 Claims. (Cl. 257—228.)

1. In a heat transferrer, the combination of a nest of tubes open for the passage of a fluid to be cooled, baffle tubes surrounding and spaced from the individual tubes of the tube nest and forming passageways therewith, means for passing a stream of cooling fluid over the outer surfaces of the baffle tubes and then through the passageways between the baffle tubes and the tubes of the tube nest, and an adjustable valve controlling the flow of the cooling fluid and set to admit an amount of cooling fluid



which will produce a predetermined temperature condition in the cooling fluid at the point where such cooling fluid first comes into direct contact with the tubes constituting the tube nest.

1,782,436. HEEL-ATTACHING MEANS. CHARLES MILLER, Long Island City, and MAX FEINSTEIN, Corona, N. Y.; said Feinstein assignor to said Miller. Filed Oct. 18, 1929. Serial No. 400,486. 1 Claim. (Cl. 36—42.)



A shoe having an upper, a shank member, a heel joined to said shoe, said heel being provided with a heel seat surface and a tread surface and having a hole extending at a substantial angle to said tread surface from said tread surface to said heel seat surface, a hollow cylindrical tube disposed within and coextensive with said hole, said tube having at its upper end an integral formed angularly disposed clamping head engaging the upper surface of said shank member, and screw threaded means carried by the lower end of said tube for securing the same in clamping position in the hole of said heel.

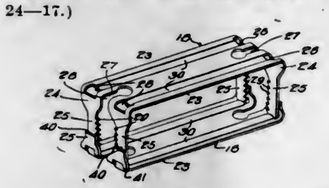
1,782,437. VACUUM-TUBE SOCKET. BEN ZION MOSKOWITZ, Brooklyn, N. Y., assignor, by mesne assignments, to Pilot Radio & Tube Corporation, Brooklyn, N. Y., a Corporation of Delaware. Filed Apr. 26, 1926. Serial No. 104,550. 5 Claims. (Cl. 248—30.)



1. A resilient supporting member for supporting vacuum tube sockets comprising a stamped metallic element

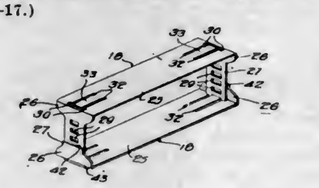
having a plurality of arms, extending from a central surface, a socket portion, and a fixed support, alternate arms being offset in the same direction and being fixed to the base of a socket portion, and the remaining arms being similarly offset in another direction and attachable to the fixed support, whereby movement of a socket member produces a flexing of said resilient support member.

1,782,438. CLAMPING DEVICE. FERDINAND OUDIN, Riverside, and BENJAMIN HARVEY SKINNER, Berwyn, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 30, 1929. Serial No. 359,341. 10 Claims. (Cl. 24—17.)



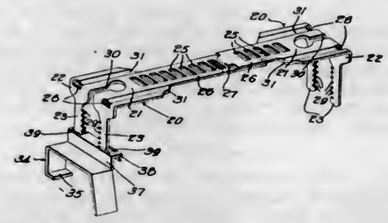
1. A clamping device comprising a substantially flat portion terminating in a bifurcated portion formed with a tooth means on a longitudinal edge thereof for adjustably engaging the edges of a support.

1,782,439. CLAMPING DEVICE. FERDINAND OUDIN, Riverside, and BENJAMIN HARVEY SKINNER, Berwyn, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 30, 1929. Serial No. 359,342. 8 Claims. (Cl. 24—17.)



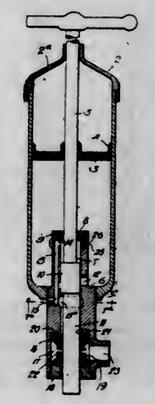
1. A clamping device comprising a horizontal portion and an integral vertical portion, the horizontal portion having a slot and a flexible reed portion terminating therein for adjustable interlocking engagement with the vertical portion of another member.

1,782,440. CLAMPING DEVICE. FERDINAND OUDIN, Riverside, and BENJAMIN HARVEY SKINNER, Berwyn, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 30, 1929. Serial No. 359,343. 11 Claims. (Cl. 24—17.)



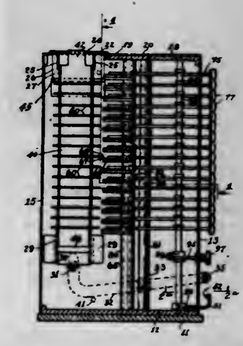
1. A clamping device comprising a two sided right angle member terminating in portions for adjustable interlocking engagement with cooperating portions of another right angle member.

1,782,441. LUBRICANT COMPRESSOR. EMILE PIQUEREZ, Paris, France, assignor to Alemite Corporation, Chicago, Ill., a Corporation of Delaware. Filed Apr. 15, 1925, Serial No. 23,284, and in France June 6, 1924. 16 Claims. (Cl. 221—47.3.)



12. In a lubricating device, in combination, a chamber for containing a lubricant, a cylinder having two axially connected portions and communicating with said chamber, pistons operable in said cylinder portions, a bleed from one of said cylinder portions into said chamber, and a discharge nozzle connected with said cylinder.

1,782,442. SELECTING MACHINE. JAMES POWERS, Sierra Madre, Calif.; Sophie Powers executrix of said James Powers, deceased. Filed July 23, 1926. Serial No. 124,480. 20 Claims. (Cl. 129—16.1.)

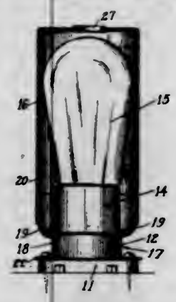


13. In combination, a case; a plurality of record units; means for movably and removably guiding the units in said case; interchangeable indicators connected to said units; and selectors engageable with the indicators when present to influence the movement of the units.

1,782,443. TUBE SHIELD. RUSSELL RAMSDELL, Poughkeepsie, N. Y., assignor, by mesne assignments, to Pilot Radio & Tube Corporation, Lawrence, Mass., a Corporation of Delaware. Filed Dec. 24, 1928. Serial No. 328,213. 1 Claim. (Cl. 250—27.5.)

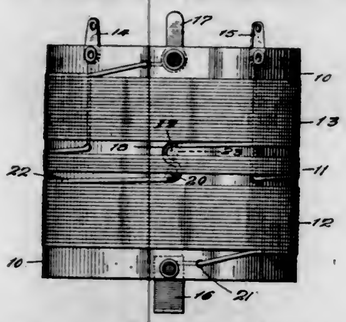
A vacuum tube shielding unit, comprising a plurality of telescoping sections, one of which has a body portion for surrounding the body portion of a tube socket, and a base

portion having projections for gripping the fastening means for said tube socket, whereby such section may be carried by said tube socket, and the other of which sections may surround the bulb portion of the vacuum tube, such other named section being slidable over the first-



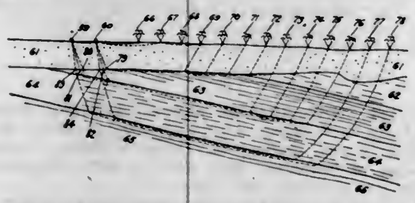
named section, to form a closure for the vacuum tube, and an aperture in said second-named section, having an insulating ring fixed to and surrounding the edges of said aperture, whereby to allow the introduction of and support a contact cap within the ring unit.

1,782,444. INDUCTANCE. RUSSELL RAMSDELL, Poughkeepsie, N. Y., assignor, by mesne assignments, to Pilot Radio & Tube Corporation, Lawrence, Mass., a Corporation of Delaware. Filed Mar. 13, 1929. Serial No. 346,568. 4 Claims. (Cl. 175—359.)



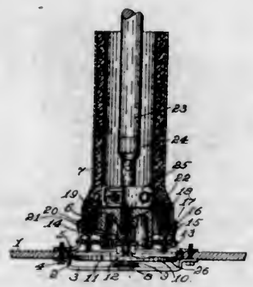
1. A tube of insulating material, adapted to have a primary and a split secondary wound thereon and having a slot extending across the zone designed to be occupied by the primary and abutments formed in said slot, serving to carry a portion of a loop of wire interconnecting the respective parts of the split secondary.

1,782,445. SYSTEM AND METHOD FOR GEOPHYSICAL EXPLORATION. FRANK RIEBER, San Francisco, Calif. Filed June 24, 1927. Serial No. 201,161. 3 Claims. (Cl. 181—0.5.)



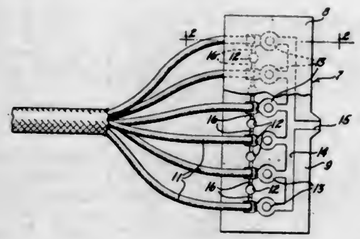
2. In a system for geophysical exploration, a pair of spaced receivers, these receivers being spaced a known distance apart, means for affecting said receivers by the aid of vibratory waves generated at any of a plurality of spaced points collinear with the receivers, and means associated with said receivers for measuring the difference in the times needed for the first arrivals of the waves to the receivers from any of said points.

1,782,446. MACHINE AND METHOD FOR CONSTRUCTING CONCRETE PIPE. ALFRED W. SCHULTZ, Waterloo, Iowa, assignor to The Zeidler Concrete Products Machinery Company, Waterloo, Iowa. Filed July 2, 1928. Serial No. 289,682. 7 Claims. (Cl. 25—30.)



4. The combination with a molding device having a lower portion adapted to shape a termination of a hollow tile to be molded therein, of means for rapidly tapping said lower portion to differentially settle the mixed plastic ingredients of a mixture deposited in the device to produce a termination on the formed tile of harder and stronger consistency than the body of the tile.

1,782,447. METHOD OF FORMING ELECTRICAL TERMINAL MEMBERS. DE HART GRIDLEY SCRANTOM, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 29, 1927. Serial No. 202,277. 3 Claims. (Cl. 22—202.)

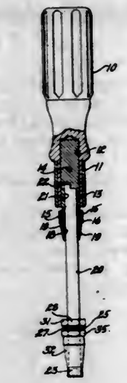


1. A method of making a terminal member for an insulated conductor, which comprises forcing a molten metal longitudinally against the end of the insulated conductor to remove the insulating material therefrom, and forming the metal into a terminal member contacting with the conductor where the insulation is removed and overlapping a portion of the insulation.

1,782,448. GUARDING AND GUIDING ATTACHMENT FOR TOOLS. SAMUEL FRANCIS SHORT, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 15, 1926. Serial No. 148,393. 2 Claims. (Cl. 145—51.)

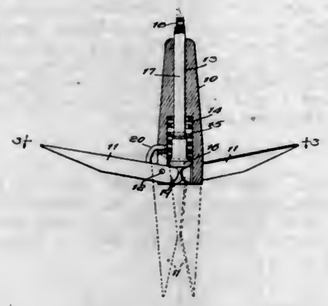
1. In combination with a screwdriver having a tang and a blade of constant cross-section, a threaded sleeve

normally slidable on the blade and provided with a resilient extension positioned adjacent the blade, and a guard having an upper portion threadedly engaging the sleeve, a lower portion having its inner diameter substantially equal to the width of the tang and designed to surround the tang to provide a guard and guide therefor, and an



intermediate portion having a tapered inner surface designed to force the extension into fixed frictional engagement with the blade when the guard is moved longitudinally of the sleeve, said surface tapering to a smaller diameter than that of the blade of the screw-driver so as to bind on the end thereof and limit the upward adjustment of the guard.

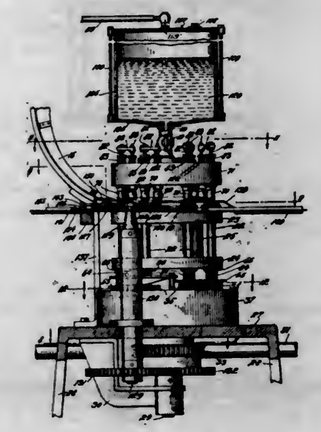
1,782,449. ANCHOR. WILLIAM SIEBERT, Chicago, Ill., assignor of one-half to Hans Wigge, Chicago, Ill. Filed Oct. 16, 1929. Serial No. 399,957. 10 Claims. (Cl. 114—208.)



1. In an anchor, the combination of a holding arm, a member to which said arm is movably connected, means including an element reciprocable longitudinally of said member for maintaining said arm at an angle to said member, said means providing for movement of said arm from said position to thereby release the anchor upon the application of a predetermined resistance applied to said arm, and said means providing means for holding said arm in said released position.

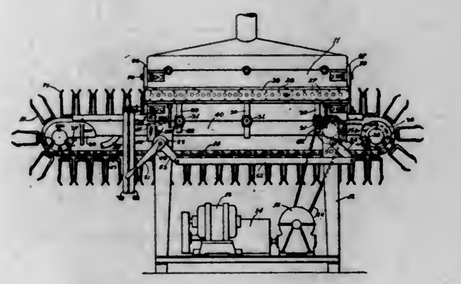
1,782,450. MACHINE FOR APPLYING CEMENT TO CAN TOPS. BURT E. TAYLOR, Mount Vernon, N. Y., assignor to The Borden Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 21, 1929. Serial No. 341,822. 16 Claims. (Cl. 113—80.)

1. In a machine for applying cement to can caps and having a rotary carriage, a plurality of vertically movable cap supporting spindles mounted on the carriage, and means for applying cement to properly positioned caps, an annular cam on which the lower ends of the spindles



are adapted to travel to lift the caps on the spindles into cement receiving position, and means for lowering the cam for rendering the spindles inoperative.

1,782,451. HEAT-TREATING FURNACE. HORACE L. WAISNER, Rockford, Ill., assignor, by mesne assignments, to Mechanics Universal Joint Company, Rockford, Ill., a Corporation of Illinois. Filed Nov. 7, 1927. Serial No. 231,639. 14 Claims. (Cl. 268—8.)

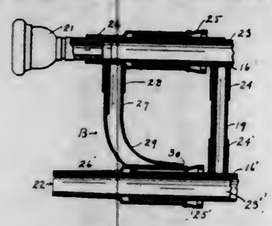


1. A heat treating furnace comprising, in combination, a casing providing an elongated heating chamber therein, an endless conveyor operating through said casing having means thereon for holding work to feed a portion of the same through the casing, means for directing flames onto the work from both sides as the same is fed through the casing, means so disposed as to shield a part of the work on both sides thereof from the action of said flames, comprising baffles arranged to direct the flame toward the part or parts of the work to be heat treated while at the same time serving to shield the rest of the work.

1,782,452. HAND-ADAPTED TROMBONE BRACE. EARL WILLIAMS, Los Angeles, Calif. Filed Jan. 4, 1928. Serial No. 244,435. 8 Claims. (Cl. 84—395.)

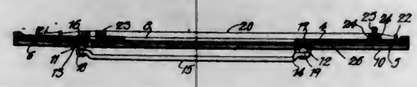
3. In a musical instrument of the trombone type, an intermediate section comprising: parallel tubular guides,

thimbles thereon; and interconnecting means therefor including a hand-adapted brace which joins the lower of



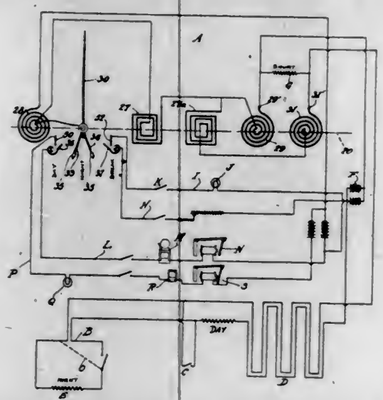
said thimbles at an acute angle,— said brace being curved only at its lower end and there attached to a relatively enlarged portion of the lower thimble.

1,782,453. PIANO CONSTRUCTION. LUMAN B. WING, Brooklyn, N. Y. Filed July 9, 1927. Serial No. 204,500. 5 Claims. (Cl. 84—187.)



3. In a piano having strings, a piano plate and subjacent sound-board construction, and a plurality of crossbars for bracing the plate entirely beneath the sound board except at the margins of the plate beyond said strings.

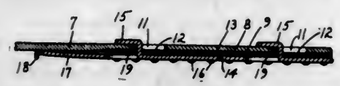
1,782,454. ELECTRICAL METER SWITCH. WILLIAM T. ARNOLD, Hempstead, N. Y. Filed June 3, 1929. Serial No. 368,084. 4 Claims. (Cl. 200—56.)



1. In an electrical governing instrument, a rotatable coil having a double winding of opposite polarity, an indicating needle fixed to said coil, and sets of contacts respectively disposed on opposite sides of the axis of said coil in the path of said needle, each set of contacts including a pair of spaced contact elements engageable with each other upon contacting engagement with one of said contact elements by said needle to successively close separate electric circuits in which said needle and said sets of contacts are arranged.

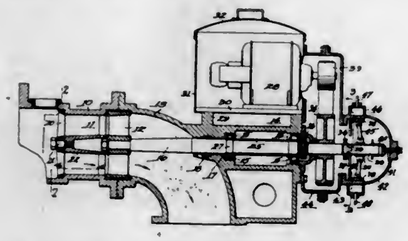
1,782,455. SAFETY RAZOR. RICHARD D. BAKER, Spokane, Wash. Filed Oct. 25, 1929. Serial No. 402,429. 1 Claim. (Cl. 30—12.)

A safety razor comprising a handle, a shank member pivoted to fold within the handle, a relatively wide spring head for said shank member having a pair of spaced slots therethrough, a groove extending from each of said slots, a razor blade having a pair of spaced holes in registry with the slots, a guard member, a spring tongue for said



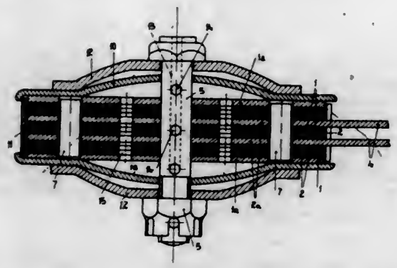
member, a lip on the end of said tongue, and a pair of clamp fingers spaced to pass through said holes and to resiliently clamp through said slots in engagement with either the outer face of the shank head or the grooves therein.

1,782,456. TURBINE-REGULATING DEVICE. GEORGE A. BIGGS, Orange, Mass., assignor to Rodney Hunt Machine Company, Orange, Mass., a Corporation of Massachusetts. Filed Feb. 13, 1929. Serial No. 339,717. 6 Claims. (Cl. 253—156.)



1. In a turbine, the combination of a casing having a straight inlet and a curved outlet, a turbine runner located in said casing, a shaft on the extreme end of which said runner is supported, said shaft extending through the curved part of the casing and the casing having bearings outside the said outlet which constitute the sole support of said shaft, a housing having passages therethrough for conducting the water directly to the runner, an oscillatable disc having openings adapted to be turned for controlling the amount of water delivered through said passages, and a stud concentric with the shaft beyond its end on which said disc is pivoted.

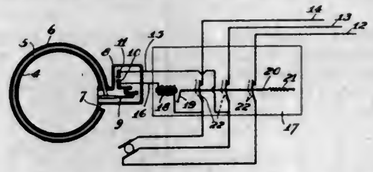
1,782,457. SHOCK ABSORBER. GIOVANNI BOELLA, Turin, Italy, assignor to Soc. An. Officine Di Villar Perosa, Turin, Italy. Filed July 11, 1928, Serial No. 291,974, and in Italy July 14, 1927. 1 Claim. (Cl. 188—130.)



A shock absorber comprising two end heads, each provided with two circular diametrically opposed holes, two diametrically opposed sector-shaped slots situated at 90° with respect to said holes and a central hole, an arm connected with each of said heads and having its outer

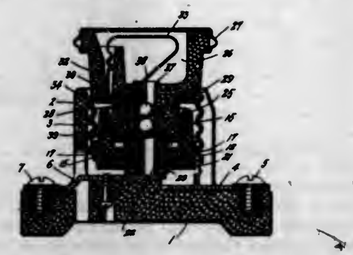
edge tangent to the corresponding head and the inner edge substantially in radial direction, two intermediate heads equally spaced from one another and from the end heads, arms connected with said intermediate heads and symmetrically arranged with respect to the arms of the end heads, the intermediate heads being provided with holes and diametrically opposed arcuate slots angularly displaced with respect to the holes and slots of the end heads, a set of disks arranged in the spaces between said heads and having holes and arcuated slots registering with the holes and slots of the end heads, a second set of disks alternating with the disks of the first set and having holes and arcuated slots registering with the holes and slots of the intermediate heads, pins located in the holes of one set and passing through the arcuated slots of the other set, a ring embracing the heads and disks and having slots through which said pins pass, removable covers to close the heads and disks in the ring and keep said pins in place, a central bolt to secure the covers in place and elastic members interposed between the covers and the head and nut of said bolt.

1,782,458. MOTOR PROTECTIVE DEVICE. WILLIAM J. BRENNEN, Scottdale, Pa. Filed Feb. 13, 1928. Serial No. 253,837. 4 Claims. (Cl. 172—36.)



1. In combination with an electric motor, an elongate thermostat arranged inside and extended about the periphery of the motor, and a movable member operably coupled to said thermostat for movement in response to the temperature conditions prevailing at the various points about the motor.

1,782,459. THERMAL CUT-OUT AND GUARD. GEORGE R. BROWN, Bridgeport, Conn., assignor to General Electric Company, a Corporation of New York. Filed Aug. 29, 1927. Serial No. 216,003. 6 Claims. (Cl. 200—119.)

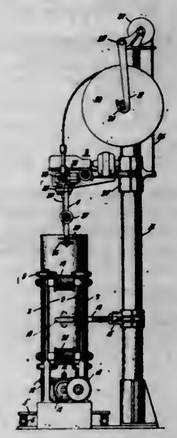


1. A guard for cut-out receptacles having standard center and screw shell contacts, comprising a cup-shaped base of insulation, a center contact extending axially therethrough, and means on said base whereby it may be screwed into and fixedly held within the screw shell of said receptacle.

1,782,460. METHOD OF MANUFACTURING POROUS BUILDING MATERIALS. ALBIN VITALIS CARLSON, Degerhamn, Sweden. Filed Aug. 6, 1926, Serial No. 127,702, and in Sweden Aug. 19, 1925. 1 Claim. (Cl. 106—24.)

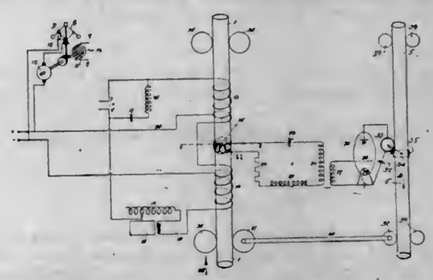
The method of manufacturing a porous building material, which consists in intimately mixing with a foundation mass containing at least one of the compositions Fe_2O_3, Al_2O_3 and SiO_2 an amount of unslaked lime sufficient to give to said foundation mass, when slaked therein, a porosity of small pores throughout the entire mass, adding to said mixture substances to intensify the pore generating process which are capable of giving off gas in reaction with lime and water, and moistening and hydrating the resulting mass so as to cause the pore generating process to take place.

1,782,461. WELDING MACHINE. VERNI J. CHAPMAN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 24, 1928. Serial No. 249,131. 9 Claims. (Cl. 219—8.)



1. A machine for welding ends into tanks comprising a movable supporting means for the tank to be welded, a power driven roller mechanism for rotating the tank, means for clamping the tank against said roller mechanism, means for producing a weld, means for movably supporting said welding means and means attached to said movable supporting means for guiding said welding means along a seam at the end of the tank during the welding operation.

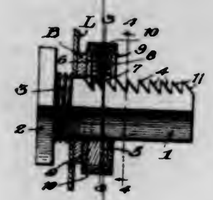
1,782,462. ARRANGEMENT FOR TESTING MAGNETIZABLE OBJECTS. HELMUT CHAPPUZEAU and OTTO EMERSLEBEN, Kiel, Germany, assignors to the Firm Neufeldt & Kuhnke Betriebsgesellschaft m. b. H., Kiel, Germany. Filed June 26, 1926, Serial No. 188,752, and in Germany July 6, 1925. 8 Claims. (Cl. 175—183.)



1. Arrangement for testing a magnetizable object, comprising magnetizing coils disposed on the object, means for supplying alternating current to said coils, a test coil system surrounding the body at the test point and consisting of a plurality of loops, each having its winding plane in parallel to the surface of the object at the test point, and

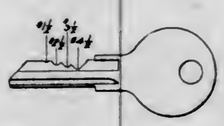
all loops being connected in series and a test circuit arrangement including said test coil for observing the currents induced in said test coil, due to faults in the structure of the body.

1,782,463. LOCK NUT. MAURO COLANTUONO, Pittston, and STEPHEN PINENO, Wyoming, Pa. Filed Sept. 18, 1928. Serial No. 305,701. 3 Claims. (Cl. 85—5.)



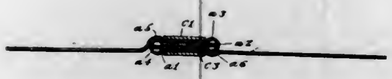
1. A lock nut comprising an apertured body having a recess therein communicating with the aperture, a pawl mounted in the recess, a spring engaging the pawl, and plates riveted to the body portion to form the completed lock nut.

1,782,464. MASTER KEY FOR CYLINDER LOCKS. MORRIS FALK, Fitchburg, Mass. Filed May 18, 1928. Serial No. 278,901. 2 Claims. (Cl. 70—9.)



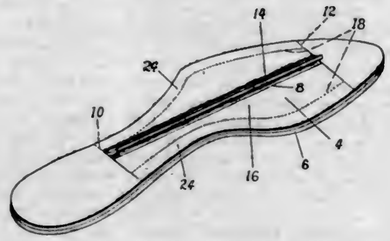
1. In a lock system employing keys having notches or cuts varying from each other in depth by a standard increment, a master key therefor having its notches or cuts of a depth bearing a fractional relation to said standard increment.

1,782,465. METHOD AND MEANS FOR FASTENING BANDS ABOUT BALES OR THE LIKE. CLARENCE B. FROST, Cambridge, Mass. Filed Nov. 1, 1929. Serial No. 404,086. 11 Claims. (Cl. 24—20.)



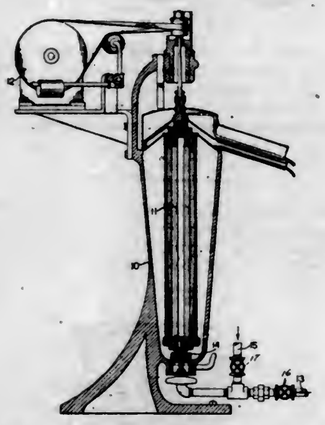
1. The method of fastening a band about a bale or the like which comprises placing the band about the bale with its ends overlapping; bending each end into hook-shape with the bend extending outside of the plane of the band; interlocking said hooked-shape ends together; placing over said interlocked end a seal with its flat top plate portion between the respective bends of the band ends, and with its depending flanges extending beside the hooked ends; followed by the pressing of said flanges under the hooked ends to clamp said ends together.

1,782,466. INSOLE. HENRY B. GORMAN, Lynchburg, Va., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed May 17, 1927, Serial No. 192,037. Divided and this application filed June 13, 1929. Serial No. 370,585. 5 Claims. (Cl. 36—22.)



1. An insole for shoes comprising a plurality of layers attached together at their margins, one of the layers being slit longitudinally of the sole to permit the insertion of a tool beneath said layer for clinching fastenings driven through the upper and the layer.

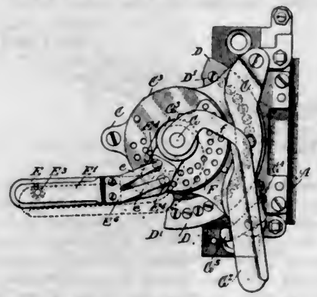
1,782,467. PROCESS FOR DEWAXING HYDROCARBON OILS. ARTHUR R. GREIG, Port Arthur, Tex., assignor to The Texas Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 20, 1927. Serial No. 241,289. 3 Claims. (Cl. 233—11.)



1. The method of operating centrifugal apparatus engaged in the separation of wax from a chilled body of hydrocarbon oil which comprises introducing a heating medium into the centrifuge periodically during its operation at the point wherein the wax-bearing oil is normally introduced and continuing the introduction of the heating medium until accumulations of solidified wax and moisture are removed from the working surfaces of the apparatus.

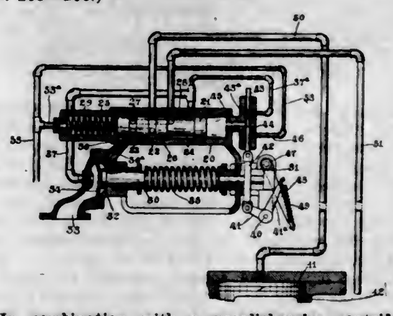
1,782,468. TYPOGRAPHICAL CASTING MACHINE. ALFRED W. F. GUEST, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed May 23, 1929. Serial No. 365,321. 12 Claims. (Cl. 199—59.)

1. In a slug trimming mechanism, the combination of a knife slide, an adjustable gauge member, means for adjusting said member, locking means for the gauge member carried by the adjusting means, a spring for holding the knife slide in engagement with the gauge member, and means adapted to be operated independently of the adjusting and locking means for relieving the gauge member of spring pressure preparatory to its adjustment but



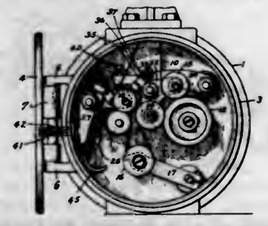
operable conjointly with the adjusting means to maintain the knife retracted as the adjustment of the gage member is effected.

1,782,469. PARALLEL-SERIES PUMP. HOMER M. HAVENS, Columbus, Ohio, assignor to The Seagrave Corporation, Columbus, Ohio, a Corporation of Michigan. Filed Mar. 5, 1929. Serial No. 344,502. 7 Claims. (Cl. 103—106.)



1. In combination with a parallel-series centrifugal pump, a valve for changing the pump from parallel to series operation and conversely, a reciprocable valve and cylinder therefor, a fluid conductor from the discharge of the pump connected with one end of said cylinder to actuate the valve therein in one direction and a spring for actuating said valve in the opposite direction, the said reciprocable valve having ports and passages and conductors cooperating therewith for actuating the first named valve for changing the pump from parallel to series operation and conversely according to the pressure in said discharge, a valve for controlling the admission to and exit of fluid pressure from said last named valve, and means actuated by the pressure in the pump discharge for controlling the position of the said last named valve.

1,782,470. ROLL SPREADER. CHARLES L. HEISLER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 13, 1928. Serial No. 312,391. 7 Claims. (Cl. 271—2.1.)



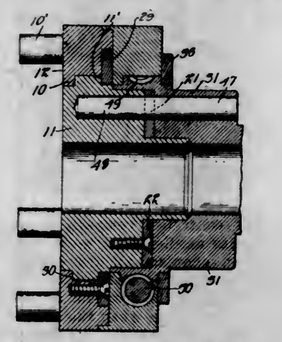
1. Apparatus of the character described comprising an enclosing casing having a door, a plurality of pairs of

rolls therein between which a film is adapted to pass, adjustable supporting means for one roll of each pair and means controlled by the position of said door for moving said supporting means.

1,782,471. MEANS FOR AND PROCESS OF ACCELERATING THE HARDENING OF HYDRAULIC BINDING MEANS. WALTER KIRCHNER, Berlin-Grunau, Germany, assignor to Chemische Fabrik Grünau, Landshoff & Meyer Aktiengesellschaft, Berlin-Grunau, Germany. Filed Mar. 21, 1927, Serial No. 177,216, and in Germany Jan. 11, 1927. 8 Claims. (Cl. 106—27.)

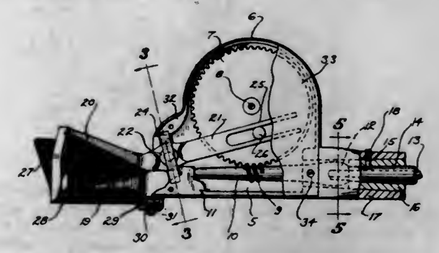
6. A process of forming a cementitious composition which comprises forming a mix of Portland cement and adding thereto while working a mixture of calcium and aluminum chloride in substantially equal amounts, thereby accelerating the setting time of the composition.

1,782,472. DIE HEAD. VICTOR R. KOONTZ, Waynesboro, Pa., assignor to Landis Machine Company, Waynesboro, Pa., a Corporation. Filed Aug. 25, 1927. Serial No. 215,429. 9 Claims. (Cl. 10—100.)



4. A die head consisting of front and rear units, the front unit comprising a front body member having chaser holders pivotally mounted therein, a closing ring mounted on the front body member and connected with the chaser holders, means for holding the said ring against axial displacement on the said head body member, means tending to rotate the ring to move the chaser holders to open position, and a rear unit comprising a rear body member and an adjusting ring mounted thereon and secured against axial movement on the body member, means for locking the body members together to hold them against relative rotary movement but to permit axial movement, comprising pins mounted on the rear body member adapted to engage bores in the front body member, substantially as set forth.

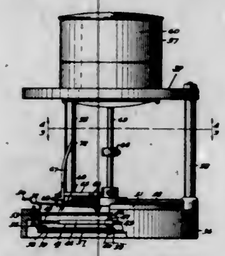
1,782,473. ELECTRIC SCISSORS. ANTON LUCICH, St. Louis, Mo. Filed Apr. 22, 1927. Serial No. 185,891. 1 Claim. (Cl. 30—1.)



In mechanical scissors, a body portion including a housing, a gear mounted in the housing, bearings in the

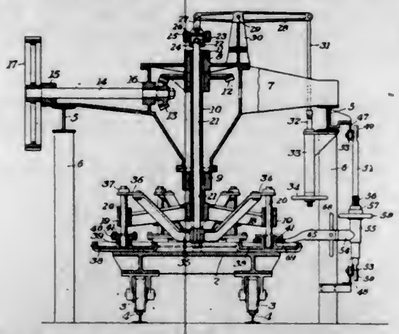
housing, a shaft having its ends mounted in the bearings and having a worm formed thereon, said worm meshing with the gear to rotate the gear, one end of the housing extending at an oblique angle and providing a stationary blade, a pivoted blade, a pivot pin on which the latter blade is mounted, one end of the pivoted blade extending into the housing, means for transmitting movement of the gear to the pivoted blade, a bowed spring member having its ends fitted in recesses in the housing, the bowed portion of the spring engaging the pivot pin to hold the pin in position, a cover plate for the housing and adapted to engage the spring member to hold the spring member under tension, and a flexible shaft positioned in one end of the first mentioned shaft to transmit movement thereto.

1,782,474. TIME-CONTROLLED COMPASS INDICATOR. WILLIAM I. MCLAUGHLIN, San Francisco, Calif., assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif., a Corporation of Delaware. Filed Feb. 16, 1926. Serial No. 88,540. 5 Claims. (Cl. 33—205.)



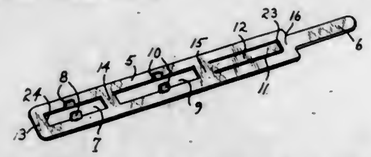
5. In a time controlled compass, a pivotally mounted magnetic compass needle, clock work mechanism, a shaft driven by said mechanism, an arm carried by said shaft, a leaf spring mounted to swing about a pivotal axis, a shoulder for engaging the free end of said spring, means engageable by said spring when the same is swung out of engagement with said shoulder for fixing the position of the needle, and a pivotally mounted lever having one end thereof extending into the path of movement of said arm and the other end thereof engageable with said leaf spring.

1,782,475. PLATE-GLASS-POLISHING APPARATUS. FREDERIC MERIAN and JAMES W. CRUIKSHANK, Pittsburgh, Pa., assignors, by mesne assignments, to Pilkington Brothers Limited, Lancashire, England, a British Company. Filed Aug. 6, 1925. Serial No. 48,530. 11 Claims. (Cl. 51—109.)



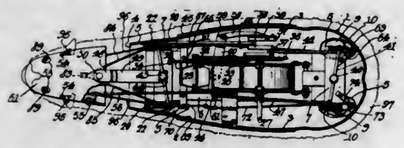
3. In a glass surfacing machine having a supporting structure carrying detachable surfacing elements, means for removing said surfacing elements when detached from the supporting structure, said means including a vertically adjustable arm movable horizontally into and out of engagement with said surfacing elements.

1,782,476. HOSE CLAMP. CHARLES A. PARKER, Haugan, Mont. Filed June 29, 1929. Serial No. 374,690. 2 Claims. (Cl. 24—19.)



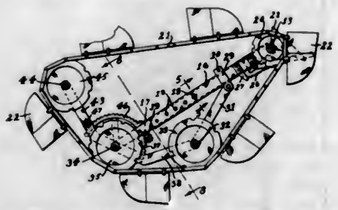
1. A hose clamp comprising a strap body, a tongue, said body having a middle slot and a slot at each end portion thereof, said tongue adapted to be received by the middle slot when the device is disposed in the instrlled position, a tongue within the slot nearest the tongue end portion of the body, and said last named tongue adapted to be received by the slot remotest therefrom when the device is in its installed position.

1,782,477. ANIMATED TOY. HERBERT EDWARD PRICE. Seattle, Wash. Filed Jan. 29, 1927. Serial No. 164,561. 3 Claims. (Cl. 46—40.)



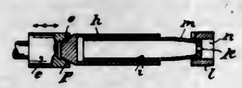
1. An animated toy including a body portion, a spring motor therein, articulated legs pivotally connected to and extending from the body portion, each leg including an upper leg portion, a lower leg portion and a foot portion mounted for relative movement, means operated by the motor for simultaneously moving forwardly one front leg and the diagonally opposed rear leg and for moving rearwardly one front leg and the diametrically opposed rear leg, and means controlled by the motor for holding the lower leg portion against swinging movement relative to the upper leg portion during the last portion of its forward movement and the first portion of its rearward movement and for releasing said lower leg portion to swing relative to the upper leg portion during the remaining swinging movement of the legs, said means including an elastic strap connecting the upper leg portion to the lower leg portion at the front thereof, an actuating cord connected to the lower leg portion at the back thereof, and a motor operated lever connected to the cord for holding said cord taut during the latter portion of the forward movement and first portion of the rearward movement of the leg, thereby to stretch the strap of said leg, and for producing slack in the cord during the latter portion of the rearward movement and first portion of the forward movement of the leg.

1,782,478. DITCH-DIGGING MACHINE. CHARLES H. RUTH, Huntington Park, Calif., assignor, by mesne assignments, to Ruth Dredger Manufacturing Corporation, Ltd., Los Angeles, Calif., a Corporation. Filed Aug. 16, 1928. Serial No. 300,038. 4 Claims. (Cl. 37—85.)



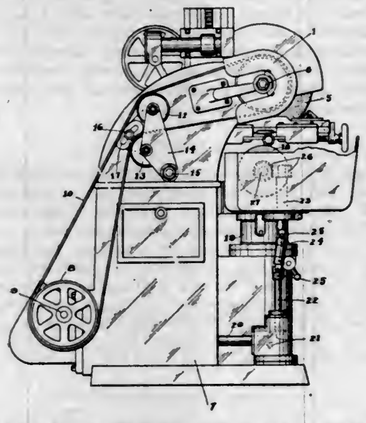
1. In a ditch digging machine, an extensible frame, shafts journaled at the ends thereof, sprocket wheels carried by said shafts, pairs of arms pivotally mounted on the shaft at one end of said extensible frame, rack and pinion connections between each pair of arms and said frame for adjusting the positions of said arms, shafts carried by said arms, sprocket wheels carried by said last mentioned shafts, sprocket chains operating on said sprocket wheels, and buckets carried by said sprocket chains.

1,782,479. TOY WEAPON. WILHELM SADTLER, Bad Homburg, Germany. Filed Nov. 14, 1927, Serial No. 233,150, and in Germany Dec. 1, 1926. 3 Claims. (Cl. 102—12.)



1. A toy weapon comprising a barrel, a firing mechanism, and a collapsible liquid containing cartridge having two telescoping parts one of which has a discharge orifice, whereby the cartridge is collapsed by the firing mechanism to propel the liquid from the cartridge through the barrel.

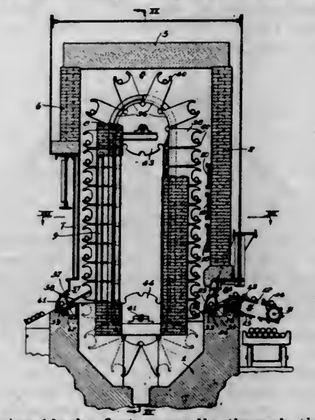
1,782,480. CENTERLESS GRINDING MACHINE. ERNEST R. SEWARD, Detroit, Mich., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 6, 1925. Serial No. 48,492. 23 Claims. (Cl. 51—103.)



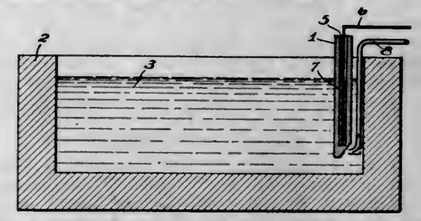
1. In a grinding machine including a grinding wheel, a regulating wheel peripherally opposed to the grinding wheel, and means for holding work between said wheels, means mounting said regulating wheel comprising in combination, a bearing within the regulating wheel, and a rigid support within said regulating wheel and upon which said bearing is rotatably mounted, said support being positioned in radial opposition to said grinding wheel, whereby the thrust of the grinding wheel transmitted through the work to the regulating wheel is received by said support directly and radially through said bearing.

1,782,481. ANNEALING FURNACE. GRANT B. SHIPLEY and HENRY ALINDER, Pittsburgh, Pa., assignors, by mesne assignments, to The International Nickel Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Jan. 4, 1929. Serial No. 330,173. 8 Claims. (Cl. 263—8.)

6. The furnace for annealing elongate blanks, comprising front and rear walls provided respectively with horizontally disposed elongate inlet and discharge openings, a baffle forming with the front wall a vertical heating chamber and with the rear wall a vertical cooling chamber, and an endless conveyor within and provided with blank-engaging means extending through said baffle for progressively moving blanks first upwardly through the heating and then downwardly through the cooling chamber of the furnace.

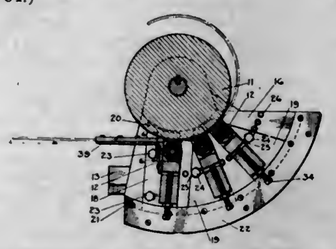


1,782,482. APPARATUS FOR HEATING A PICKLING SOLUTION. WILLIAM C. SIEFERT and GEORGE W. PAWEL, Clearfield, Pa., assignors, by mesne assignments, to The International Nickel Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Aug. 28, 1928. Serial No. 302,530. 3 Claims. (Cl. 219—40.)



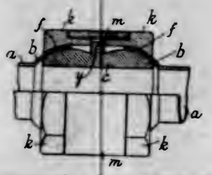
1. An internally heated pickling apparatus comprising in combination a vat containing pickling solution, insoluble electrodes partially immersed therein and spaced to prevent arcing between the electrodes, each electrode having a longitudinal bore inwardly from its outer end, and buses disposed in said bores making complete contact therewith only along the portion of the electrode in contact with the solution.

1,782,483. FORM-ROLLING MACHINE. FRANK L. SNYDER, Cleveland, Ohio, assignor to The White Motor Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 22, 1928. Serial No. 301,304. 8 Claims. (Cl. 153—54.)



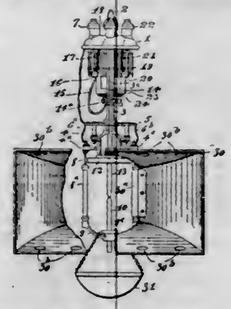
7. In a form-rolling machine, the combination of a plurality of cooperating forming rollers comprising a driven roller, an idler roller separately adjustable toward and away from said driven roller and about said driven roller.

1,782,484. PIPE JOINT. REGINALD WILLIAM SPENCER, South Kirkby, near Pontefract, and HARRY PERCY HARRIS, Sutton Coldfield, England. Filed Dec. 31, 1927, Serial No. 244,001, and in Great Britain Aug. 18, 1927. 1 Claim. (Cl. 285—92.)



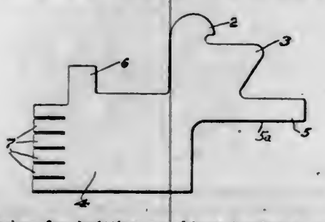
A pipe joint comprising two spherically splayed pipe ends each spherically zoned interiorly and exteriorly in parallel and enclosing in opposing relation about centres spaced apart a spherically zoned inner hollow member having two adjoining exterior spherical surfaces whose largest spheres are less than the greatest diameter of said inner hollow member, said largest diameter being constituted by an annular flange of the inner hollow member, packing located in the grooved interior spherical zone of each pipe end and abutting the contacting spherical surface of the inner hollow member, an interiorly spherically zoned outer securing member of at least two parts, said parts having a screw thread engagement with one another, the outer securing member engaging the annular flange of the inner hollow member.

1,782,485. ELECTRIC-ARC LAMP. WILLIAM C. SPIETH, Geneva, Ohio. Filed Sept. 10, 1925. Serial No. 55,609. 1 Claim. (Cl. 176—115.)



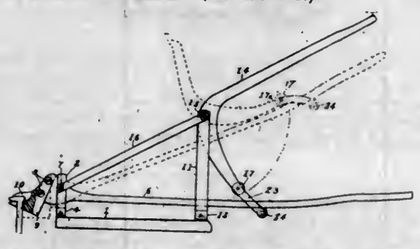
A reflector, for use with an arc lamp of a type having vertically extending members flanking the arc on the two sides of the arc, serving as conductors to the lower electrode, and surrounded by insulating sleeves, comprising a top, a base, and a lateral wall connecting said top and said base, and provided with means adapted to clamp said sleeves to hold said reflector supported on said lamp.

1,782,486. SINKER FOR KNITTING MACHINES. ALBERT E. STEWART, Franklin, N. H., assignor to Acme Knitting Machine & Needle Company, Franklin, N. H., a Corporation of New Hampshire. Filed Sept. 21, 1928. Serial No. 307,359. 2 Claims. (Cl. 66—107.)



1. A sinker for knitting machines having a web holding shoulder at its front end, a broad butt at its opposite end, a horizontal guiding surface on its lower edge, and a vertical series of frangible lugs projecting from the rear edge of said butt and extending below a lower guiding surface of the web holder, said lugs being integral with said butt and located side by side, each of said lugs being required in some form of sinker but one or more of them being superfluous in other forms, whereby different forms of sinkers may be made by breaking off the lug or lugs which are not required for any individual form.

1,782,487. SPIKE-DRAWING DEVICE. JOHN F. STRAUBE, Elkhorn, Nebr., assignor of one-fourth to Nels Swanson, Fremont, Nebr. Filed Sept. 28, 1928. Serial No. 308,950. 1 Claim. (Cl. 254—21.)



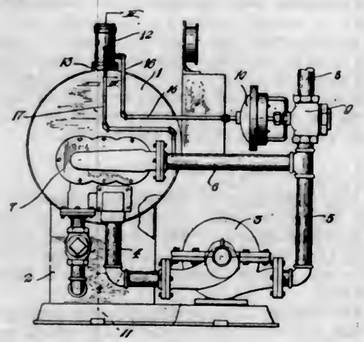
A spike drawing device comprising a base, posts mounted upon the forward end of said base, a lever pivotally fulcrumed intermediate the posts, a jaw carried by said lever, posts mounted upon the rear end of said base, a second lever pivotally fulcrumed intermediate the second named posts, wheels rotatably mounted adjacent the lower end of and on said lever and oppositely disposed above and below the first lever and reinforcing bars connecting the fulcrumed pivots of both levers.

1,782,488. PROCESS OF PURIFYING ANTHRACENE. CHARLES J. THATCHER, New York, N. Y. Filed June 16, 1923. Serial No. 645,924. 10 Claims. (Cl. 260—168.)

1. The process of refining anthracene which includes grinding it in the presence of a solvent for impurities thereof in which the anthracene is relatively insoluble.

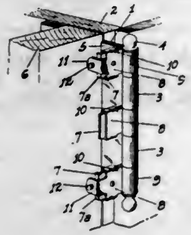
7. The process of refining anthracene which includes grinding it in the presence of a quantity of carbon tetrachloride insufficient to dissolve anthracene in proportions relatively large to the impurities dissolved, and removing the resultant solution.

1,782,489. AUTOMATIC CONTROL FOR HEATING PLANTS. LOUIS G. L. THOMAS, Chicago, Ill. Filed July 30, 1926. Serial No. 125,904. 9 Claims. (Cl. 103—5.)



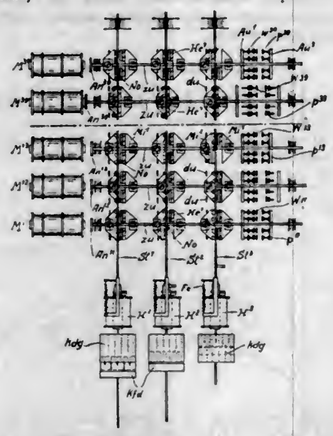
1. A control apparatus for a heating plant, comprising a water circulating system having a pump, a water delivery pipe extending from said circulating system, a valve in said delivery pipe, a diaphragm connected to said valve, a connection from said pump to said diaphragm, a valve in said last named connection, and means regulated by said circulating system for controlling said last named valve.

1,782,490. ADJUSTABLE DOOR HINGE. THEODORE L. TORGERSON, Oroville, Calif. Filed Mar. 21, 1929. Serial No. 348,714. 1 Claim. (Cl. 16—131.)



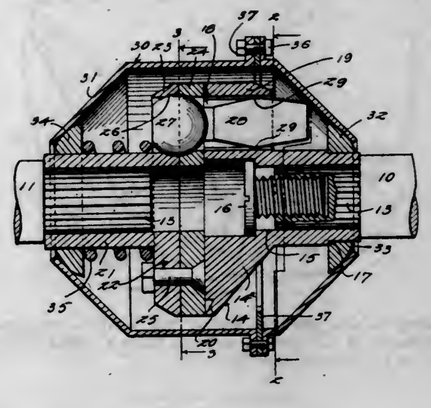
A door hinge including a pair of plates adapted for separate attachment to a door and its casing in adjacent and facing relation to each other, spaced knuckles formed with one plate, other separate knuckles to cooperate with the first named knuckles, a hinge pin through all said knuckles, plates projecting from said separate knuckles, angled extensions on the other plate engaging and supporting said last named plates for sliding movement in a horizontal plane, lugs on the outer ends of certain ones of said last named plates extending in the direction of said other plate and parallel thereto, and horizontal adjustment screws between said lugs and said other plate.

1,782,491. AUTOMATIC TELEPHONE EXCHANGE SYSTEM. FRITZ TRACHSEL, Berne, Switzerland, assignor to Chr. Gfeller Aktiengesellschaft, Bern-Bumpliz, Switzerland. Filed Apr. 12, 1926, Serial No. 101,516, and in Switzerland Apr. 15, 1925. 4 Claims. (Cl. 179—27.5.)



1. In a switch for an automatic telephone exchange, a plurality of spring contacts placed side by side, cams mounted adjacent said spring contacts, means adapted to effect a successive plural stage movement of said cams, comprising a slide bar under magnetic control, in combination with a plurality of magnetically controlled bars operating transversely to said slide bar to selectively effect a final movement of one of said cams with respect to an associated spring contact.

1,782,492. UNIVERSAL JOINT. GEORGE W. VAN DEREN, Elmira, N. Y. Filed Nov. 1, 1927. Serial No. 230,344. 4 Claims. (Cl. 64—91.)



1. In a universal joint, a body having means whereby it may be secured to a shaft and having longitudinally extending openings adapted to parallel the axis of the shaft, a head having a shank whereby it may be concentrically secured to a second shaft against rotation with relation thereto and drive connectors having shanks engaged in the openings of the body and spherical heads engaged in sockets in said head, each shank having coaction with the walls of the opening in which it engages permitting oscillation thereof in a plane intersecting the shank and radial to the axis of the body while preventing oscillation thereof at right angles to said plane.

1,782,493. ACTIVE CARBON AND PROCESS FOR MAKING SAME. JOHANNES VAN LOON, Deventer, Netherlands. Filed Feb. 15, 1927, Serial No. 168,468, and in the Netherlands Mar. 5, 1926. 5 Claims. (Cl. 252—3.)

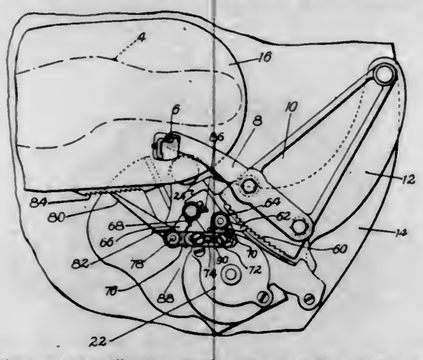
1. The process of manufacturing decolorizing carbon which comprises grinding carbon to a size not substantially greater than 2 to 9 μ in the presence of a liquid medium, but discontinuing the reduction in size at a point where the product is substantially non-colloidal, and separating the carbon and liquid medium after grinding.

3. An adsorptive agent which consists of carbon which has been caused to acquire adsorptive properties by grinding to a size of about 2 to 9 μ.

1,782,494. SOLE-ROUNDING MACHINE. REGINALD BOYD WOODCOCK and THOMAS AUBREY KESTELL, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 19, 1926, Serial No. 89,415, and in Great Britain Mar. 13, 1925. 17 Claims. (Cl. 12—25.)

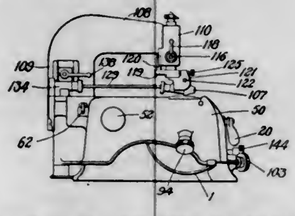
15. In a sole-rounding machine wherein a pattern and a knife are relatively moved to transfer the point of operation of the knife forwardly around the pattern and to a point beyond the starting point of operation of the knife and then have relative retrograde movement, a carrier, means for relatively moving the carrier and pattern toward and away from each other in accordance with variations in the peripheral contour of the pattern while the point of operation of the knife is being transferred, a knife support movably mounted on the carrier, means for moving the knife support relatively to the carrier to maintain the knife and pattern in engagement while the point of operation of the knife is being transferred, means for

locking the knife support to the carrier, and means carried by the means for effecting relative movement of the carrier and the pattern constructed and arranged to render the



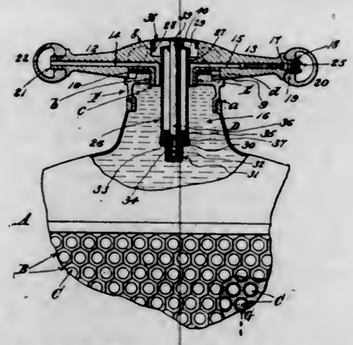
locking means effective during the relative retrograde movement of the pattern and the knife to effect separation of the pattern and the knife.

1,782,495. SKIVING MACHINE. REGINALD BOYD WOODCOCK and JOSHUA COOK, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 11, 1927, Serial No. 182,929, and in Great Britain Apr. 17, 1926. 7 Claims. (Cl. 69—9.5.)



1. A machine of the class described having, in combination, a rotatable knife, a sleeve to which the knife is fastened, a bushing in which the sleeve is rotatably mounted, a thrust bearing between the bushing and the sleeve, and means for adjusting the bushing in a path parallel to the axis of rotation of the knife.

1,782,496. LEAK-TESTER CAP FOR AUTOMOBILE RADIATORS. MAX ANCHELEVICH, Cincinnati, Ohio. Filed Dec. 16, 1929. Serial No. 414,361. 4 Claims. (Cl. 220—85.)



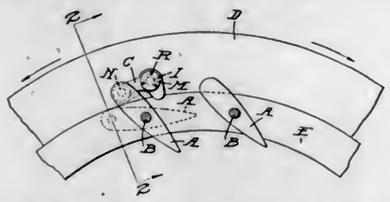
1. An air-controlling cap for automobile-radiators for use in detecting and spotting leaks, the same comprising a detachable cap-member proper, radially-extending handle-arms, passage-ways leading from the central core or body of said cap-member and the water-chamber along said handle-arms to capped inlet and outlet ends, and an air compression pump extending from said cap-member downwardly into the neck and water-chamber of the radiator, whereby, when a leak in any of the radiator tubes or walls is present, the operation of said pump serves to forcibly and noticeably expel a minute jet or stream of the leaking water at the exact location of the leak so that repairs can be immediately or promptly and intelligently made, substantially as shown and described.

1,782,497. CLAM-CATCHING IMPLEMENT. HANS OLAF ANDERSON, Hampton Bays, N. Y. Filed Oct. 8, 1929. Serial No. 398,196. 1 Claim. (Cl. 37—119.)



A clam digging implement comprising a substantially circular member, a rigid handle attached thereto, a plurality of rigid teeth secured to said circular member at the side spaced with respect to said handle, a basket like structure having an open side adapted to conform in shape to said circular member, and means for securing said basket like member to said circular member with its open side conforming thereto.

1,782,498. LINK FOR HYDRAULIC TURBINES. GEORGE A. BIGGS, Orange, Mass., assignor to Rodney Hunt Machine Company, Orange, Mass., a Corporation of Massachusetts. Filed Feb. 13, 1929. Serial No. 339,716. 4 Claims. (Cl. 253—122.)

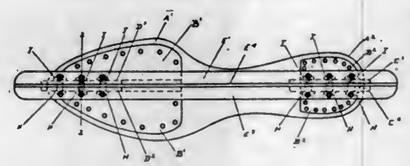


1. A link consisting of a body, and a stem combined with said body to form an integral member, said body having a hole therein with means for covering said hole, for the purpose set forth.

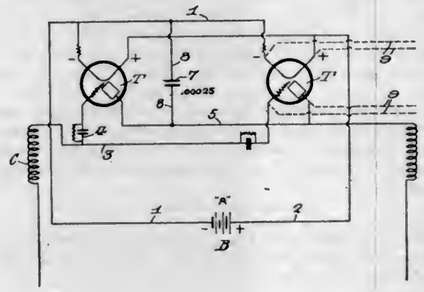
1,782,499. SKATE. GEORGE A. CARNEY, Dorchester, Mass. Filed Mar. 25, 1930. Serial No. 438,850. 4 Claims. (Cl. 208—167.)

1. A skate comprising a four runner blade, each runner angularly disposed to the others and having transverse

openings therein, a frame comprising sole and heel plate brackets formed with pressed out portions having transverse openings therein arranged to register with the transverse openings in any one of said runners, and clamping elements extending through said transverse openings.



1,782,500. DETECTOR-TUBE CIRCUIT. ROBERT LESLIE CHILES, Knoxville, Tenn. Filed Sept. 1, 1928. Serial No. 303,499. 1 Claim. (Cl. 250—27.)



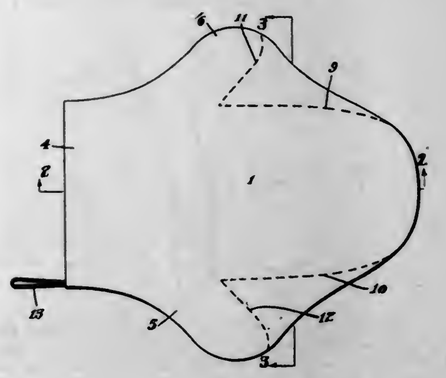
A radio receiving set comprising a number of detector tubes, means for connecting the filaments of the tubes with a source of supply, means for connecting the grid posts of the tubes with a coil, a grid condenser and leak arranged in the circuit between each grid post and coil, means for connecting the plate posts of the tubes with a transformer and a condenser connected with the plate post circuit and with the negative filament circuit.

1,782,501. ENGINE LUBRICANT AND PROCESS OF MAKING. ROSCOE E. CLOUGH, Palo Alto, Calif., assignor to Castorlube Refining Co., San Francisco, Calif., a Corporation of California. Filed Apr. 13, 1927. Serial No. 183,614. 1 Claim. (Cl. 87—9.)

A lubricating compound comprising castor oil, heat treated at a temperature not to exceed 590 F. until no more than 4.2% of the total weight of the oil has been removed under atmospheric conditions, mixed with mineral oil.

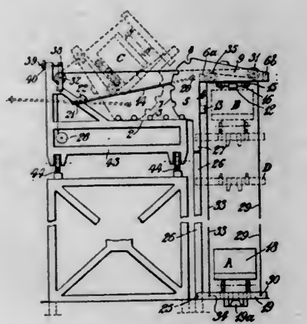
1,782,502. COMBINATION POLISH APPLYING AND FINISHING MITT. CHARLES ALLEN CRANE, Winthrop, Mass., assignor of one-half to Edwin G. Wurzburg, Quincy, Mass. Filed Sept. 7, 1929. Serial No. 391,075. 1 Claim. (Cl. 15—227.)

A reversible polishing mitt adapted to perform the dual function of a liquid polish applying medium and a dry rubbing and finishing medium, said mitt including a plurality of layers of fabric stitched together around the edges thereof except for one portion, to thereby leave an opening for the insertion of the hand within the mitt, one of the layers of fabric presenting an outer relatively absorbent surface for a semi-liquid polishing compound and a moisture proof backing for said layer, the outer surface of the other layer of fabric presenting a soft dry surface for rubbing and finishing the surface, a plurality of lines of stitching extending inwardly from the closed end of the mitt and being spaced from each other and from the



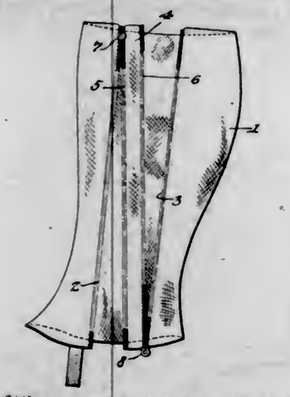
closed sides of the mitt and uniting the two layers so as to form a central pocket for the fingers of the hand, and a line of stitching extending outwardly from each of said last named lines of stitching at an angle to the side of the mitt so as to form a gripping web between said two lines of stitching so as to form two thumb pockets, one being arranged on each side of the central pocket, one of said last named thumb pockets being adapted to receive the thumb when the mitt is being used to apply the polish, and the second of said thumb pockets being adapted to receive the thumb when the mitt is reversed for rubbing and finishing with the relatively soft dry surface of the mitt.

1,782,503. APPARATUS FOR TIPPING AND DISCHARGING RAILWAY CARS. BERNARD EDMUND ELLSON, Walton-on-Thames, England. Filed Apr. 29, 1929. Serial No. 359,118. 8 Claims. (Cl. 214—51.)



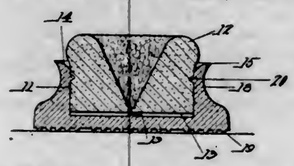
1. In a car tipping apparatus, a frame, a cradle mounted for rocking on the frame from a position to receive the car in an upright relation to a position to invert the car for dumping purposes, and means carried by and bodily movable with respect to the cradle for engaging with the top of the car, whereby to permit bodily movement of the car with respect to the cradle in the initiation of the cradle-rocking movement.

1,782,504. FASTENING FOR LEGGINGS AND BOOTS. FRED ERHARDT, Kansas City, Mo., assignor to Ethel A. Cooper, Kansas City, Mo. Filed Oct. 17, 1929. Serial No. 400,405. 3 Claims. (Cl. 36—2.)



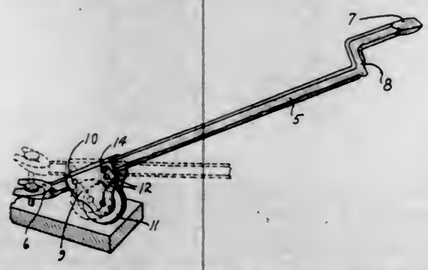
1. A form-fitting garment having an intermediate section interposed between the free edges of the main portion of the article, and slide fastener means for joining the adjacent edges of the intermediate section and of the main portion of the garment, the slides of said fastener means operating in opposite directions.

1,782,505. CUP FOR SPONGE MOISTENERS. CARL C. HARRIS, Orange, Mass. Filed Oct. 1, 1928. Serial No. 309,464. 2 Claims. (Cl. 91—54.4.)



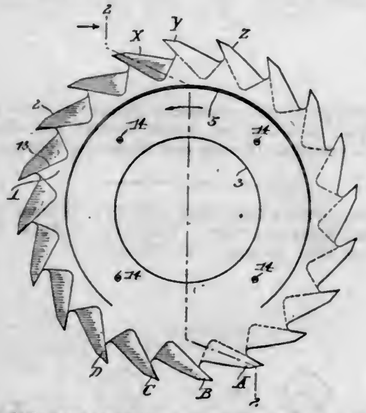
1. As an article of manufacture, a sponge cup moistener comprising a base having a recess in the top, a moistening sponge in said recess having a convex upper surface, the base being provided with an outwardly and upwardly projecting ledge around the top for receiving the fingers of the operator when brushed along the surface of the sponge and removing excess moisture therefrom, said lip having on the inside a gentle curve so that the water will drain back into the cup and the base having a groove entirely around it underneath and extending to the edge of said lip whereby it can be lifted and moved around.

1,782,506. WRECKER BAR. WILLIAM F. HENDERSON, Colfax, Wash. Filed Sept. 10, 1929. Serial No. 391,615. 1 Claim. (Cl. 254—27.)



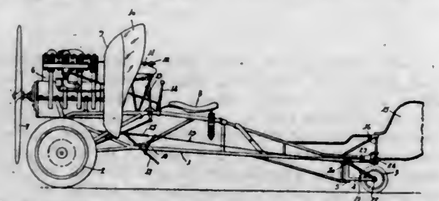
A wrecker bar comprising a main body portion having a claw at one end and an offset shoulder adjacent its other end, a carriage member pivotally mounted on said bar adjacent the claw end thereof, a wheel for said carriage member, and means whereby said carriage member may be adjusted to different pivotal positions.

1,782,507. DADO SAW. WARREN B. HUTHER, Rochester, N. Y., assignor to Huther Bros. Saw Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Sept. 13, 1927. Serial No. 219,212. 11 Claims. (Cl. 144—238.)



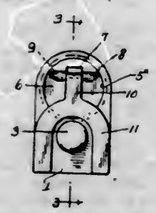
1. A dado saw comprising a circular disk having a continuous series of peripheral teeth lying in a common plane, said disk having a recessed portion affording a lateral mounting face lying in a plane inclined to the plane of said teeth.

1,782,508. AEROVEHICLE. ALVIN ELMO JAMES, Waycross, Ga. Filed Nov. 14, 1929. Serial No. 407,176. 4 Claims. (Cl. 180—1.)



1. A vehicle of the character described comprising a frame, a pair of wheels supporting the forward end of the frame, a caster wheel connected to the rear end of the frame, an engine on the forward portion of the frame, a propeller driven by the engine, a rudder hingedly connected to the rear end of the frame, and steering gear connected to both the rudder and said caster wheel for simultaneously swinging them.

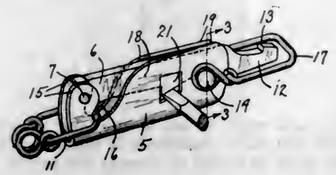
1,782,509. COLLAR BUTTON. GEORGE KRASNEY, Chicago, Ill. Filed May 26, 1930. Serial No. 455,762. 1 Claim. (Cl. 24—90.5.)



A collar button of the character described comprising a substantially flat plate having a recess in one end portion,

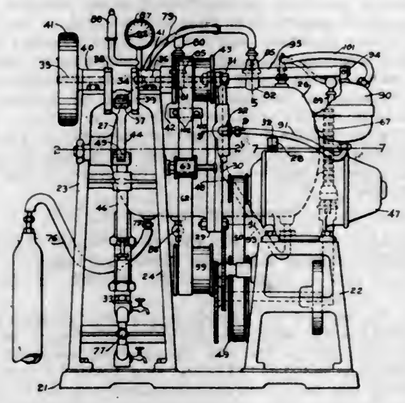
a membrane mounted in the recess in spaced opposed relation to the bottom wall thereof, a retaining flange extending into the recess for securing the membrane therein, a pintle of substantially oval cross section mounted for rotary movement on the inner side of the membrane and engageable with the bottom wall of the recess, an angular arm projecting outwardly from the pintle, a yoke depending from the arm, and a headed shank projecting from the plate below the recess and extending through the yoke.

1,782,510. TIRE-CHAIN LOCK. BERT E. LANG, Spokane, Wash. Filed Apr. 12, 1930. Serial No. 443,728. 1 Claim. (Cl. 24—69.)



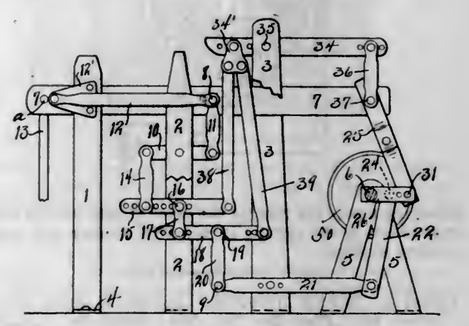
A tire chain lock having in combination a casing, hooked jaws for one end of the casing, a body member, a hook formed on one end portion of said body, said body hook pivoted between said hooked casing jaws whereby the body is adapted to fold into the casing, said body hook and casing hooked jaws arranged to cooperatively form an opening in the folded position adapted to serve as a bearing for one end link of a tire chain, a pin through the other end of the casing adapted to form a connection for the other end link of the chain, a plurality of shoulders for the body member adapted to initially retain the first mentioned tire chain link, one of said shoulders arranged to fit over the pin when the body is in the closed position, opposing flanges for the casing adapted to hold the body in the locked position, said body having beveled edges whereby it may pry the flanges apart when being swung to the locked position, a shoulder on the outer end portion of the body member whereby said member may be securely grasped when closing same, and said casing having an opening therethrough whereby the body member may be pried loose from its locked position.

1,782,511. CARBONATING MACHINE. FREDERICK NEUSCHAFER, Jersey City, N. J., and HARRY BOTWIN, Brooklyn, N. Y. Filed Jan. 29, 1929. Serial No. 335,818. 3 Claims. (Cl. 261—93.)



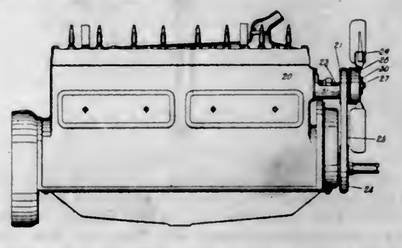
1. In a carbonating machine, a mixing tank, a pump, pump driving means, a rock lever, a balance weight at one end thereof, a hollow vessel on the opposite end of said lever, a rigid pipe connection between said hollow vessel and said tank, means in said pipe connection for permitting said vessel to freely move with said rock lever as the weight of the water in said hollow vessel increases and decreases according to the water level in said tank, and means automatically operable by said lever for controlling the actuation of said pump driving means.

1,782,512. POWER-SAVING JACK. SAMUEL D. RANDOLPH, Fort Worth, Tex. Filed Sept. 13, 1929. Serial No. 392,291. 5 Claims. (Cl. 74—14.)



1. A power saving jack comprising an upright frame consisting of a work end frame, a power end frame, a bearing frame, and a fulcrum frame, a walking beam operatively connected to said work end frame member and operatively connected with said power end frame member, and link bars and levers pivotally connecting the ends of said walking beam to said fulcrum frame member, and means operatively connected with said bearing frame for driving said walking beam.

1,782,513. INTERNAL-COMBUSTION ENGINE. DELMAR G. ROOS, South Bend, Ind., assignor to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey. Filed Feb. 20, 1928. Serial No. 255,670. 8 Claims. (Cl. 123—171.)

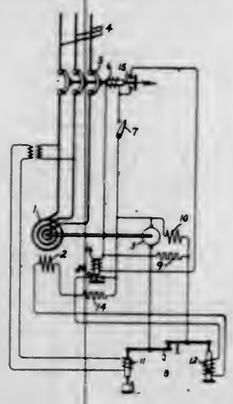


1. In an internal combustion engine, a fan, a drum secured thereto, driving mechanism therefor, and a friction clutch comprising weighted arms supported by said driving means contacting with said drum to rotate said fan.

1,782,514. REGULATING SYSTEM. HAROLD T. SEELEY, Lansdowne, Pa., assignor to General Electric Company, a Corporation of New York. Filed Apr. 20, 1929. Serial No. 356,803. 6 Claims. (Cl. 171—119.)

6. In combination, a synchronous dynamo-electric machine, an electric circuit, switching means for connecting said machine to said circuit, a source of current connected to the field winding of said machine, current limiting means in series with said source and field winding, a regulator for controlling the voltage of said source including

a winding connected in series with said current limiting means across said source, and means controlled by said



switching means for varying the effect of said current limiting means in the circuits of said field winding and anti-hunting winding.

1,782,515. SCREW DRIVER. JOSEPH A. SIGG, Pittsburgh, Pa. Filed Dec. 19, 1929. Serial No. 415,238. 3 Claims. (Cl. 145—50.)



1. A screw driver comprising a stem having a slotted end and a handle on its other end, said stem having a pair of radial lugs projecting in axially spaced relation, a sleeve nut disposed between said lugs and fixed against axial movement, an interchangeable bit disposed in the slotted end of said shank, and a sleeve adapted for screw thread engagement with said nut whereby it is subjected to axial movement on said shank to lock said bit in its operative position.

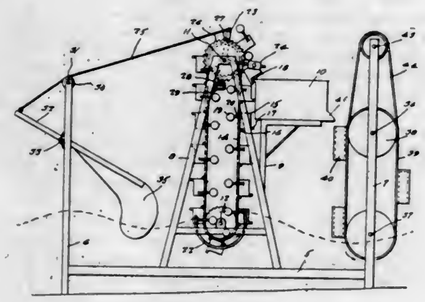
1,782,516. ELECTRIC SWITCH. SAMUEL L. SNEIERSON, Boston, and JAMES L. HILDEBRAND, Lynn, Mass., assignors, by direct and mesne assignments, to National Mfg. Co., Boston, Mass., a Corporation of Massachusetts. Filed Apr. 8, 1930. Serial No. 442,532. 10 Claims. (Cl. 240—123.)

1. In switch mechanism, a casing having a pull chain opening, a chain guide mounted in said opening and a pull chain attached at one end to the switch operating parts and passing through said guide, said guide comprising a tapered coil spring normally extending perpendicular to said casing to hold said chain in alinement with said open-



ing, while said chain is not in use, and movable angularly with said chain regardless of the direction of pull when the chain is pulled to operate the switch.

1,782,517. POWER GENERATOR. ROSARIO SOTO, Oxnard, Calif. Filed Dec. 27, 1929. Serial No. 416,859. 1 Claim. (Cl. 103—69.)

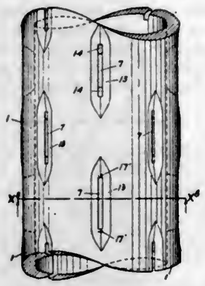


In a power generator of the class described, a frame, a rockable actuator mounted in the frame to ride on the waves so that the actuator will be rocked as the waves rise and fall, an endless bucket conveyor structure, means for operating the structure from the actuator, and a receptacle adapted to be filled with water from the endless bucket structure, said endless bucket structure comprising a pair of chain and sprocket mechanisms, buckets hingedly mounted across the chains, arms projecting from the buckets and terminating in weights for holding the buckets in upright positions as they move upwardly and in inverted position as they move downwardly, and guides associated with said arms to cause the buckets to move from inverted positions through the water to upright positions.

1,782,518. SCREEN PIPE AND METHOD OF MAKING SAME. ROBERT ALEXANDER STEPS, Los Angeles, Calif. Filed July 8, 1929. Serial No. 376,732. 4 Claims. (Cl. 29—163.5.)

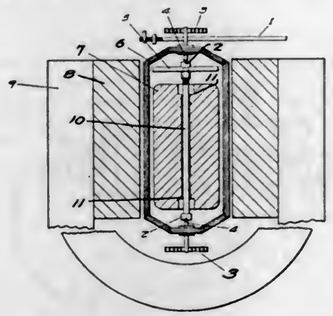
1. The method of making screen pipe consisting of slotting the pipe with a circular cutter operating from the outside surface of the pipe inward, also removing the shoulders at the ends of the slot by a double acting reciprocating tool adapted to cut one shoulder on the forward stroke and the other shoulder on the return stroke, and also drawing a roller back and forth under pressure over the outside of the slot and lengthwise thereof, said roller

comprising two opposed frusto-conical portions with their large ends abutting so that when the center of said roller works at the extremities of said slot it presses into the unslotted part of said pipe at places beyond the ends of said slot and between the projected side walls thereof.



4. Screen pipe consisting of pipe having elongated slots the narrowest portion of each slot comprising a toughened mouth lying between the inner and outer surfaces of said pipe but nearer said outer surface, said pipe also having pressure-formed depressions in its outside surface one completely surrounding each of said toughened slot mouths respectively, the perimeter of each of said depressions lying in the outside surface of said pipe and being completely spaced apart from its slot and completely surrounding its slot, the said depression becoming deeper all around its slot from the perimeter of said depression toward the slot so that the entire mouth of the slot including its ends as well as its sides lies below the outside surface of said pipe.

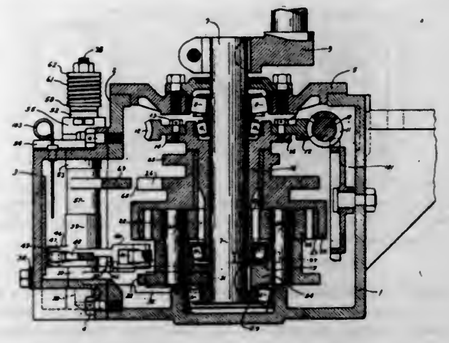
1,782,519. ELECTRIC METER. CHARLES DAVID SUTTON, Waterbeach, England, assignor to Cambridge Instrument Company, Limited, London, England, a Corporation of Great Britain. Filed May 3, 1929, Serial No. 360,198, and in Great Britain Jan. 26, 1929. 3 Claims. (Cl. 171—95.)



3. An instrument of the class described comprising an indicator having a pivot, a bearing for the pivot, means for producing a magnetic field, a winding supported by the bearing and disposed in the magnetic field and adapted for the passage of an electric current to cause the pivoting of the indicator about the pivot on the bearing, and means controlled by the magnetic field for controlling the position of the bearing.

1,782,520. INTERMITTENT DRIVING MECHANISM. HARRY M. SWINDLER, Dayton, Ohio, assignor to The James Leffel & Company, Springfield, Ohio, a Corporation of Ohio. Filed Feb. 1, 1930. Serial No. 425,208. 42 Claims. (Cl. 74—34.)

1. In combination, a driven means, a driving means, planetary gearing therebetween, means to render a portion of said planetary gearing stationary to establish a connection between the driven means and the driving



means, and means including a pawl and ratchet operated by a portion of the planetary gearing to time the period of holding said means stationary.

1,782,521. MAGNETIC CORE. PANFILO TROMBETTA, Milwaukee, Wis., assignor to General Electric Company, a Corporation of New York. Filed Nov. 26, 1929. Serial No. 409,971. 3 Claims. (Cl. 175—356.)



1. A magnetic core comprising a stack of laminations, means for tightly fastening said laminations into separate groups to prevent humming of the laminations in each group and means for tightly fastening said groups together to prevent humming of the stack.

1,782,522. FIG-STERILIZATION APPARATUS. JOHN G. TYLER, CHARLES C. TAYLOR, and WILLIAM S. JOHNSON, Fresno, Calif., assignors to California Peach & Fig Growers Association, Fresno, Calif., a Corporation of California. Filed Nov. 14, 1927. Serial No. 233,014. 4 Claims. (Cl. 99—2.)

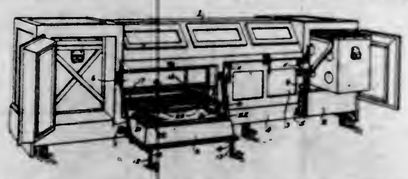


1. Apparatus for sterilizing dried fruit comprising an elongated heat insulated chamber, a foraminous belt conveyor therein adapted to convey fruit therethrough, means for feeding fruit to said conveyor and for discharging it from the conveyor and chamber, an auxiliary compartment extending along said chamber provided with spaced openings leading thereto, means for forcing hot air to said compartment, and means for reheating the hot air within said compartment as it passes through said openings.

1,782,523. REFRIGERATOR-DISPLAY-CASE CONSTRUCTION. VIRGIL P. WARREN, Atlanta, Ga. Filed Dec. 26, 1928. Serial No. 328,467. 2 Claims. (Cl. 62—37.)

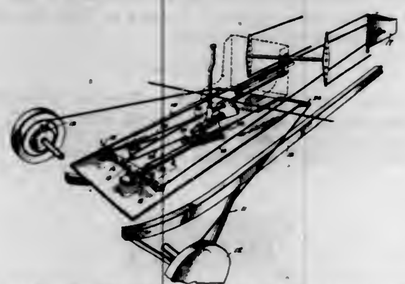
1. A casing having an opening in a side thereof, channel guideways horizontally supported parallel to each other

in said casing, a tray slidable in the channels of said channel guideways through said opening, a door for said opening hinged to said casing to swing about a horizontal axis,



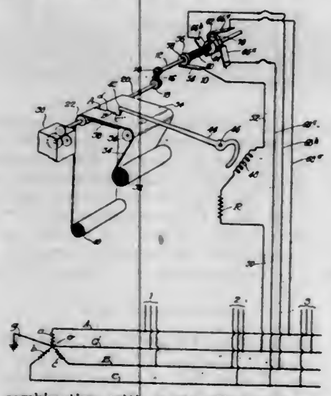
means for supporting said door, when opened, parallel to said guideways, and means for slidably supporting the outer end only of said tray on the inner face of said door when in open position.

1,782,524. RUDDER AND BRAKE CONTROL. EDGAR R. WEAVER, Dayton, Ohio. Filed May 21, 1929. Serial No. 364,867. 9 Claims. (Cl. 244—29.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)



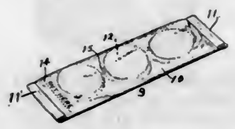
1. An aircraft having a rudder and landing wheel brakes, a pivoted rudder control bar, cables connecting said bar and said rudder, tiltable brake operating pedals on said bar, brake cables connecting said pedals and said brakes and means to retain said pedals in a neutral position when said bar is moved about its pivot, said means comprising a compensating cable trained over a fixed pulley and over a pair of pulleys on said rudder bar on either side of the pivot thereof and having its ends fast to said brake operating cables.

1,782,525. ELECTRICAL INSTRUMENT. ALBERT J. ALLEN, Brooklyn, N. Y., assignor to The Engineering Products Corporation, Inc., New York, N. Y., a Corporation of New York. Filed May 24, 1928. Serial No. 280,145. 2 Claims. (Cl. 234—505.)



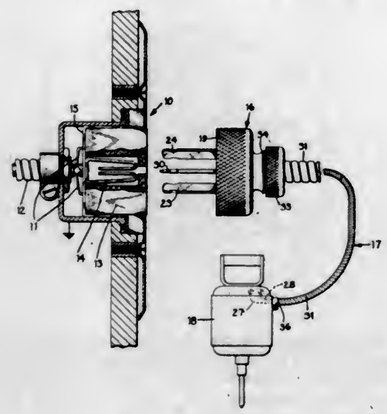
1. In combination with a recording volt-meter having a timing device and a chart moved at a constant rate thereby, a circuit changing mechanism driven at a rate commensurate with that of the chart, said circuit changing mechanism comprising a plurality of unequally spaced yielding contact members, a rotary circuit closing member mounted for coaction with said contact members, said contact members being arranged to normally oppose the movement of said rotary circuit closing member, spring means tending to turn said circuit closing member and means for periodically tripping said yielding contact members so as to successively release the rotary circuit closing member after a lapse of a predetermined time interval.

1,782,526. TUBULAR CONTAINER. ARTHUR L. BEARDSLEY, Elkhart, Ind. Filed Jan. 30, 1928. Serial No. 250,352. 2 Claims. (Cl. 206—46.)



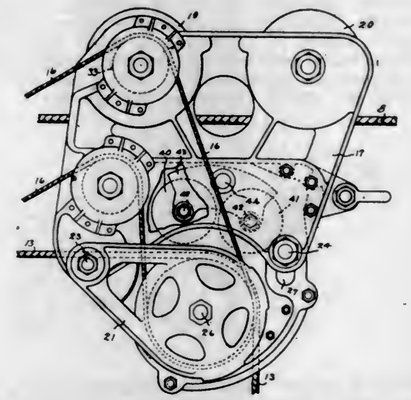
2. In combination, a flattened sleeve of ductile metal, a plurality of medicinal tablets subject to deterioration by access of air or moisture in said sleeve, said sleeve having its end sealed by flattening and folding over, the removal of one or more of said tablets providing sufficient unoccupied space in the tube to permit the opened end thereof to be pinched together and folded upon itself to form a tight seal.

1,782,527. ELECTRIC WIRING DEVICE AND ACCESSORY. INSLEE A. BENNETT, Pittsburgh, Pa., assignor to National Electric Products Corporation, New York, N. Y., a Corporation of Delaware. Filed Sept. 14, 1928. Serial No. 306,044. 6 Claims. (Cl. 173—361.)



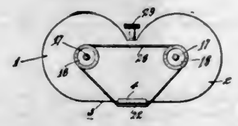
1. In electric wiring systems including a portable cord and an associated plug, said plug having a shell and three prongs therein, two for carrying current and the other for establishing a ground return, said ground return prong being in electrical connection with the shell, said portable cord including a flexible sheath and a two conductor cable and means for clamping the sheath directly to the shell of the plug and for thereby compelling the proper establishment of the ground circuit between the sheath and the ground return prong of the plug.

1,782,528. HOISTING AND HAULING CARRIAGE FOR USE ON ELEVATED TRACKWAYS. KNUTE BERGER, Seattle, Wash. Filed July 23, 1929. Serial No. 380,330. 8 Claims. (Cl. 212—89.)



1. In apparatus of the class described, a carriage having a plurality of sheaves therein, two of which are upon the same axis and are connected to rotate together, vertically-movable means for connecting said two last-named sheaves to the carriage to permit them to have a rising and falling movement, one of the other of said sheaves being located in a higher plane than the said last-named two, a hauling line, a tong line leading over one of said connected-together sheaves, a slack pulling line passing around the other of said connected-together sheaves and up and around said higher sheaves, said two last-named lines being connected to the hauling line at a point comparatively near said carriage, and movable means mounted in said carriage in position to be frictionally engaged by said tong line when said connected-together sheaves are moved toward said means.

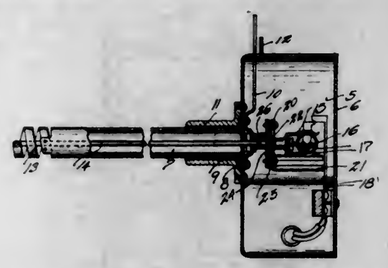
1,782,529. FILM-MAGAZINE-LOCKING DEVICE. CLYDE DE VINNA, Los Angeles, Calif., assignor to Metro-Goldwyn-Mayer Corporation, Culver City, Calif., a Corporation of New York. Filed Aug. 20, 1928. Serial No. 300,703. 4 Claims. (Cl. 242—71.)



1. A locking device for continuous film magazines comprising, a light proof closure member adapted to cover film apertures in the base plate of a film magazine, said closure member being provided with means for engaging the base plate, and means carried by said closure member adapted to operatively engage with spindles carried by such film magazine and substantially prevent rotation thereof when said closure is engaged with said base plate.

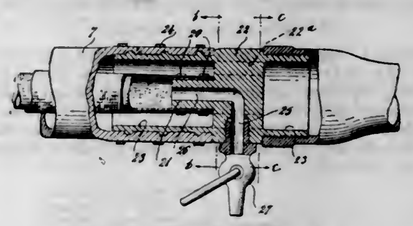
1,782,530. COMBINATION CONTROL SWITCH. CHARLES P. DOUGHERTY, Spokane, Wash. Filed Apr. 23, 1929, Serial No. 357,547. Renewed July 23, 1930. 10 Claims. (Cl. 200—137.)

1. A combination control switch comprising a disc loosely mounted on a thermostat torsion rod, a mercury tube loosely mounted on the torsion rod, an arm for said disc adapted to engage an end portion of the mercury tube, another disc mounted on the torsion rod in engagement with



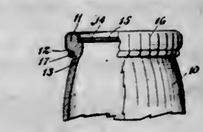
the first named disc, means for clamping said discs in frictional engagement with each other, said means secured to said torsion rod, and an arm for the second named disc arranged to engage an end portion of the mercury tube.

1,782,531. METHOD AND MEANS FOR FILTERING FLUIDS. ANTHONY H. G. FOKKER, Amsterdam, Netherlands. Filed Sept. 27, 1928. Serial No. 308,814. 3 Claims. (Cl. 210—164.)



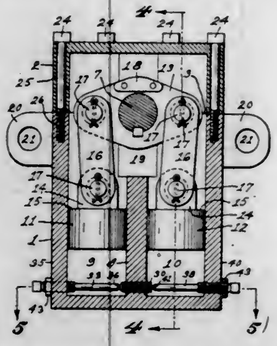
1. A filtering device for liquid delivering mechanisms, including a hose, a fitting adapted to be connected in said hose said fitting embodying an internal wall having a longitudinal passage merging with an offset passage opening externally of said fitting a plurality of apertures in said wall radially spaced from said longitudinal passage, a filtering element of an elongated configuration connected at one end to said fitting in connection with said bore, a non-stretchable perforate covering conforming to said element, a coupling for removably securing the other end of said element and said covering within the hose at a point adjacent the delivery mechanism and at an appreciable distance from said fitting whereby filtration of the liquid delivered to said hose will be effected substantially throughout its entire length, the liquid passing through said apertures for discharge from the hose.

1,782,532. CONTAINER COVER. WILLOUGHBY F. HILL, New York N. Y. Filed Mar. 17, 1926. Serial No. 95,244. 3 Claims. (Cl. 215—38.)



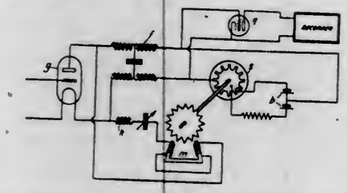
1. A container cover comprising a hood formed of resilient sheet material, having a central portion for covering the container mouth, an integral expansive pleated flange depending from said central portion for closely embracing a container neck, the edge portions of said flange being rolled back upon themselves into pleat clamping relation.

1,782,533. SHOCK ABSORBER. WILLIAM B. HITE, Jr., Webster Groves, Mo. Filed Jan. 14, 1929. Serial No. 332,332. 3 Claims. (Cl. 188—88.)



3. In a shock absorber, a casing presenting chambers adapted to contain a fluid and arranged to define an intermediate wall having a pair of independent ports in its lower portion to effect communication between said chambers and means associated with each port whereby the passage of the fluid therethrough may be controlled independently of one another and in opposite directions.

1,782,534. METHOD OF AND MEANS FOR RECEIVING TELEGRAPHIC SIGNALS. AUGUST JIPP, Berlin-Spandau, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed Nov. 30, 1928, Serial No. 322,624, and in Germany Aug. 6, 1927. 4 Claims. (Cl. 250—8.)



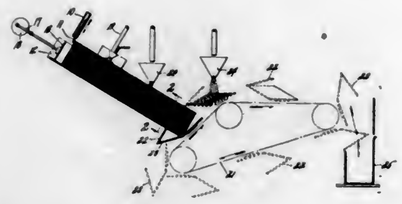
1. The method of receiving signals which includes filtering out from the incoming signal currents dot frequency and stray frequency currents, and combining the remainder of the incoming signal currents with a locally generated alternating current of dot frequency and predetermined shape whose frequency is made to depend upon the dot frequency of the incoming signal.

1,782,535. METHOD OF EDGE FINISHING FABRICATED ROOFING ELEMENTS. LESTER KIRSCHBRAUN, Leonia, N. J., assignor, by mesne assignments, to The Patent and Licensing Corporation, Boston, Mass., a Corporation of Massachusetts. Filed July 31, 1926. Serial No. 126,277. 7 Claims. (Cl. 91—68.)



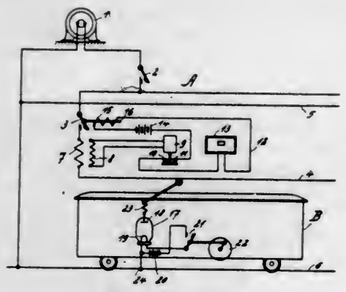
7. A method of edge-finishing strip shingles, which comprises bundling a plurality of shingles together in face-to-face relation with edges flush and butt edges down, advancing said bundled shingles in an edgewise direction, applying molten asphalt to said butt edges, depositing the bundle on a moving body of loose grit, and tilting the shingles while moving in contact with the grit to separate their butt edges.

1,782,536. METHOD OF EDGE FINISHING FABRICATED ROOFING ELEMENTS. LESTER KIRSCHBRAUN, Leonia, N. J., assignor, by mesne assignments, to The Patent and Licensing Corporation, Boston, Mass., a Corporation of Massachusetts. Filed July 31, 1926. Serial No. 126,278. 9 Claims. (Cl. 91—68.)



2. A method of edge-coating fabricated roofing elements, which comprises assembling a plurality of said elements in face-to-face relation, applying to the butt edges an aqueous dispersion of heat-liquefiable waterproofing material containing a colloidal powder, and separating the edges of said elements before the emulsion thereon is set.

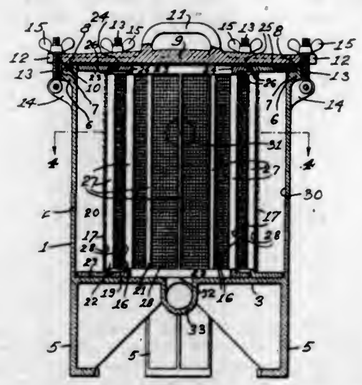
1,782,537. DIRECT CURRENT RAILWAY SYSTEM. ULRICH KLOSS, Berlin, Germany. Filed Apr. 5, 1929, Serial No. 352,771, and in Germany Feb. 15, 1929. 9 Claims. (Cl. 191—8.)



1. An apparatus for disconnecting the feed circuit of track zones of direct current railways from a moving train or block section at a distance, comprising an automatic switching device in said feed circuit, a control circuit reactively coupled to said feed circuit, a local circuit closed by said control circuit and electro-magnetically actuating said automatic switching device, and electronic tube means making and breaking the feed circuit thereby indirectly causing said automatic switching device to open.

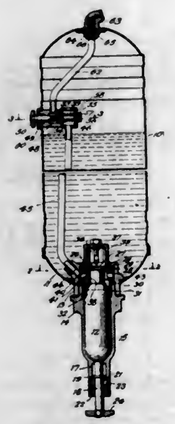
1,782,538. STRAINER. DAVID LARKIN, Kirkwood, Mo. Filed May 27, 1929. Serial No. 366,431. 2 Claims. (Cl. 210—183.)

1. In a strainer, a straining unit comprising a pair of annular end plates of the same shape and dimensions, said plates having arcuate inner and outer edges, the plates having opposed shoulders at their inner faces, the inner edges of said shoulders being arcuate and flush with the inner edges of the plates, the outer edges of the shoulders being polygonal in plan, bars connected with the vertices of the shoulders and bridging the space between the plates



and straining material surrounding the series of bars and attached at its edges to the polygonal edges of the shoulders.

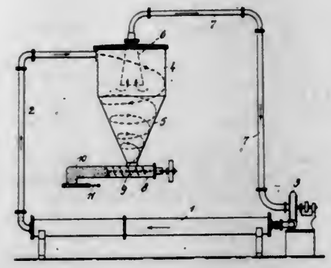
1,782,539. FIRE EXTINGUISHER. PETER GRAHAM MACGREGOR, Pequanock, N. J., assignor to Pyrene Manufacturing Company, Newark, N. J., a Corporation of Delaware. Filed Jan. 18, 1929. Serial No. 333,416. 9 Claims. (Cl. 169—31.)



1. A fire extinguisher comprising a liquid receptacle having an outlet, a seal normally closing said outlet, a sealed cartridge containing a compressed gas to be released and directed into said receptacle, a seal fracturing device in cooperative relation to said seal, and cartridge puncturing means separate from seal-fracturing means and rendered effective upon operation of said seal fracturing device to release the contents of said cartridge.

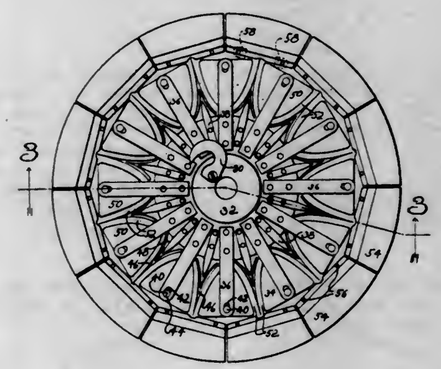
3. A fire extinguisher comprising a liquid receptacle having an outlet, a seal normally closing said outlet, a sealed cartridge containing a compressed gas to be released and directed into said receptacle, a seal fracturing device located on one side of said seal and in cooperative relation to said seal, and cartridge puncturing means located on the other side of said seal and rendered effective upon operation of said seal fracturing device to release the contents of said cartridge.

1,782,540. PROCESS OF AND SYSTEM FOR SPLITTING HYDROCARBONS SUCH AS ACETYLENE OR THE LIKE. JOSEF MACHTOLF, Celle, Germany, assignor to the Firm Chr. Hostmann-Steinberg'sche Farbenfabriken G. m. b. H., Celle, Germany. Filed Dec. 9, 1926, Serial No. 153,645, and in Germany Sept. 20, 1924 (abandoned); also in Germany Dec. 11, 1925. 5 Claims. (Cl. 134—60.)



1. In the process of splitting hydrocarbons in receptacles, the step which consists in separating a portion of the split solid matter from the gaseous matter, and blowing said gaseous matter containing the remainder of the solid matter through the splitting receptacle.

1,782,541. METHOD OF STENCILING. HARRY SHERWOOD MCCLELLAN, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a Corporation of Delaware. Filed Sept. 16, 1927. Serial No. 220,026. 13 Claims. (Cl. 101—126.)

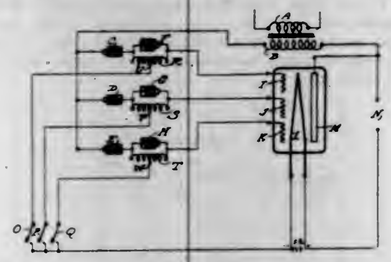


1. The method of striping spoked wheels which consists in applying a resilient stencil to the surface thereof, forcing the stencil against said surface to cause the edges of the openings in said stencil to slide on said surface, and spraying paint thru said openings.

1,782,542. ELECTRICAL TONE PRODUCER WITH UNIVERSAL AUDION. FRANK E. MILLER, New York, N. Y. Filed June 18, 1925. Serial No. 37,984. 7 Claims. (Cl. 84—1.)

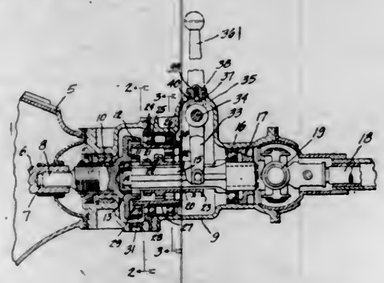
4. An electrical tone producer of the type described comprising an audion; said audion containing a predetermined number of grids, each grid connected to a separate circuit, means for automatically adjusting the im-

pedance of each of said circuits, said audion having a single plate, a source of electrical energy and means for



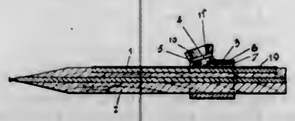
operating said automatic impedance adjuster to produce sounds of ascending or descending frequencies above, within and below the range of audibility.

1,782,543. POWER-TRANSMITTING MECHANISM. GUY MORGAN, New York, N. Y., assignor to The Warford Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 19, 1925. Serial No. 63,531. 4 Claims. (Cl. 74—58.)



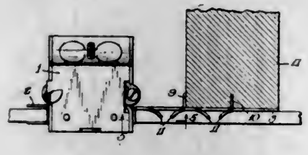
2. In combination, a casing having aligned end openings, shafts extended through said openings into the said casing, clutch members on the shafts for joining them, a portion of the casing between the ends thereof being eccentric of the said shafts, a plate secured at said eccentric portion, gears on said shafts and a member supported and positioned by said eccentric portion and said plate and having external and internal gearing adapted to operably connect the gears on said shafts.

1,782,544. LIGHTER. HUBERT A. MYERS, Toledo, Ohio. Filed Apr. 17, 1929. Serial No. 355,723. 4 Claims. (Cl. 67—7.1.)



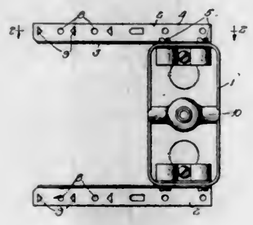
3. In a lighter, an elongated holder member, a pyrophoric strip, the pyrophoric strip being secured to one side of the holder member, the pyrophoric strip having a groove, a collar substantially fitting around the holder member and pyrophoric strip, a steel blade located within the collar, the steel blade having an end portion inclined toward the surface of the pyrophoric strip, the edge of the blade being located in the groove for maintaining the collar and strip in position as the collar and the stip are moved one relative to the other, the collar having a boss, the boss having a recess for receiving the article to be ignited and located at the end of the steel blade.

1,782,545. SWITCH BOX. CHARLES NEWMAN, New York, N. Y., and ERNST G. APPLETON, Chicago, Ill., assignors to Roach-Appleton Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed July 23, 1926. Serial No. 124,327. 6 Claims. (Cl. 247—21.)



1. A switch box including a receptacle, an attaching plate secured to said receptacle on a side thereof, said attaching plate having a pair of tines struck rearwardly from said plate, said tines being equi-spaced from said receptacle and adapted to serve alternatively as temporary attaching means or as gauges, and a second pair of tines struck rearwardly from said plate, said second pair of tines being equi-spaced from said receptacle.

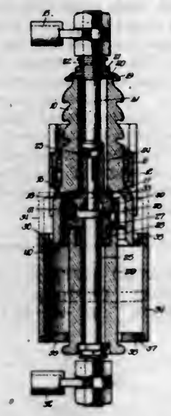
1,782,546. BOX-SUPPORTING EAR. CHARLES NEWMAN, New York, N. Y., and ERNST G. APPLETON, Chicago, Ill., assignors to Roach-Appleton Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 12, 1927. Serial No. 218,932. 5 Claims. (Cl. 247—21.)



1. In combination, a switch box and a pair of elongated ears, each comprising an integral member having two flanges in right-angular relationship with one another, said two flanges extending throughout substantially the whole length of said ear, one of said flanges comprising a box attaching portion, the other of said flanges having a portion struck therefrom and extending in a direction opposite to said one flange, said struck out portion being adapted to operate as a gauge against a wall stud, said other flange being provided with prongs struck therefrom in the same direction as said struck out portion, certain of said prongs being adapted to operate either as a securing means or as a gauge in connection with said wall stud.

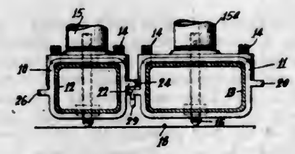
1,782,547. CONDUCTOR DISCONNECTER ARRANGEMENT. JOSEPH RAH, Chicago, Ill., assignor to G. & W. Electric Specialty Co., Chicago, Ill., a Corporation of Illinois. Filed May 20, 1925. Serial No. 31,539. 15 Claims. (Cl. 200—163.)

1. In a device of the class described, the combination of a plurality of electrical conductors adapted to be electrically connected and disconnected, two protecting members for covering said conductors when connected, and a



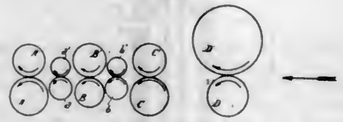
third protecting member associated with both of said conductors for covering at least one of said conductors when said conductors are disconnected.

1,782,548. DUCT-END OUTLET-ALIGNING MEANS. L. ALAN SHARP, Avalon, Pa., assignor to National Electric Products Corporation, New York, N. Y., a Corporation of Delaware. Filed May 14, 1929. Serial No. 362,906. 6 Claims. (Cl. 247—27.)



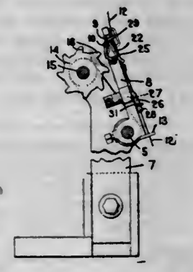
1. In an electrical conduit system having apertured fittings which are to be aligned and connected and interrelated to other apertured fittings, means integral with and upon the fittings to provide for a variable mating inter-relation of an adjacent pair of fittings with respect to each other, and means cooperating with the aforesaid mating means for connecting the adjacent fittings together.

1,782,549. DRAWING FRAME. EMILIO STANSFIELD, Bergamo, and EMILIO BRUNNER, Milan, Italy. Filed Feb. 19, 1929, Serial No. 341,198, and in Italy Mar. 1, 1928. 1 Claim. (Cl. 19—130.)



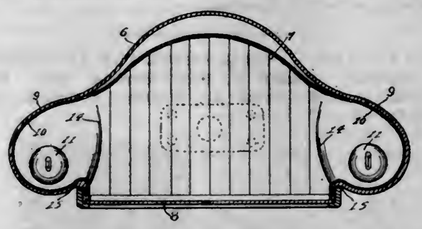
A cotton drawing machine comprising a pair of feeding rolls, a pair of drawing rolls spaced from said feeding rolls by a distance considerably greater than the fibre length of the cotton to be treated and having a peripheral speed slightly greater than said feeding rolls, other pairs of drawing rolls beyond said first pair of drawing rolls spaced from adjoining pairs of drawing rolls by distances slightly greater than the fibre length of the cotton to be treated, the peripheral speeds of said pairs of drawing rolls increasing progressively, and pairs of auxiliary rolls between the adjacent pairs of drawing rolls beyond the first pair of drawing rolls, the lower rolls of each of said pairs of auxiliary rolls being driven at the same peripheral speed as the preceding pair of drawing rolls, the upper rolls of each of said pairs of auxiliary rolls being held in position against the lower rolls by gravity only, said pairs of auxiliary rolls being closely adjacent to the succeeding pairs of drawing rolls.

1,782,550. STOP MOTION FOR KNITTING MACHINES. DANIEL F. SULLIVAN, Lowell, Mass., assignor of one-half to John P. Furey, Lowell, Mass. Filed July 13, 1929. Serial No. 377,999. 5 Claims. (Cl. 66—162.)



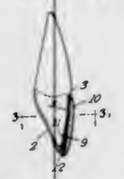
1. In a stop motion for knitting machines, the combination with a rock shaft adapted by its turning movement to operate a stopping mechanism, a slotted arm fast on the rock shaft, the yarn leading to the knitting point passing across said slot, a drop member pivoted to the arm and normally supported by the portion of the yarn spanning the slot, whereby when the yarn breaks or becomes unduly slack the drop member will gravitate through the slot into abnormal position, a constantly-rotating toothed wheel, the teeth of which move in a path traversed by the drop member when it gravitates into abnormal position, whereby engagement of the teeth with the drop member will swing the arm forwardly and turn the rock shaft thereby to operate the stopping mechanism, and means to apply a clamping action to the thread between the drop member and the source of supply when said drop member begins to gravitate into abnormal position.

1,782,551. AUTOMOBILE LAMP. JAMES A. SULLIVAN, Jersey City, N. J. Filed Nov. 26, 1928. Serial No. 321,978. 1 Claim. (Cl. 240—41.)



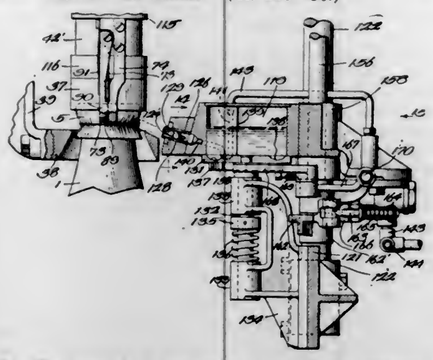
In combination with an automobile head lamp including a casing, reflector and lens, an offset lamp house forming a continuation of said casing, a reflector lining the inside of said lamp house, said lamp house and casing having a substantially triangular opening between the same with a substantially vertical front wall and with upper and lower walls rearwardly converging and meeting at a central apex in the rear portion of the opening, said front wall in combination with the front part of the casing providing a light abutment, and a source of illumination offset forwardly and outwardly from the central portion of the lamp house behind said abutment.

1,782,552. PORCELAIN-FACED CROWN. SAMUEL G. SUPPLEE, West Orange, N. J. Filed Oct. 20, 1928. Serial No. 313,668. 2 Claims. (Cl. 32—29.)



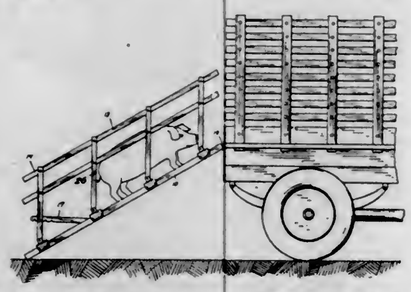
1. A tooth crown comprising a metal crown body shaped to substantially fit on the rear and side walls of the prepared exposed end of a tooth the side and rear walls of the crown being of substantially the same thickness, a front wall of thinner metal secured at its edges to the edges of the side walls, a porcelain facing, a backing plate secured to the rear side of said facing, and a layer of solder between the relatively thin front wall of the crown and the rear wall of said backing plate.

1,782,553. MACHINE AND METHOD FOR APPLYING CLOSURES. OLOF N. TEVANDER, Chicago, Ill., assignor to Standard Cap & Seal Corporation, Chicago, Ill., a Corporation of Virginia. Filed July 21, 1926. Serial No. 123,938. 12 Claims. (Cl. 226—80.)



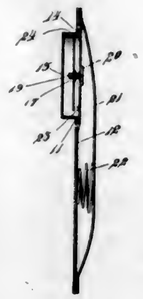
11. The method of sealing a bottle which consists in placing a skirted cap over the mouth of the bottle, contracting a strand about the cap skirt, connecting the ends of the strand by applying a patch of cementitious material thereupon, and applying a second patch of cementitious material upon the first patch applied after the latter has "set" or hardened.

1,782,554. ANIMAL CHUTE FOR AUTOMOBILE TRUCKS. HAROLD W. TOOL, Murdock, Nebr. Filed July 5, 1929. Serial No. 375,994. 2 Claims. (Cl. 119—82.)



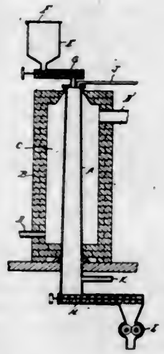
1. In combination, an animal chute comprising a floor and a pair of collapsible side walls foldable into parallelism with said floor, said floor having a rectangular frame of a pair each of end and side rails, each of said side rails having a releasable brace pivotally secured to the inner side thereof, pins projecting from said side walls into the paths of said braces, said braces being each provided with a plurality of notches for engaging said pins for holding said side walls rigidly in upright and adjusted position, stop hinges connecting the walls to the floor and limiting the outward movement of the side walls away from each other, said hinges also having pintles positioned transversely of said chute and engaging the side walls to admit endwise movement of said side walls, and a second set of braces at the inner sides of the side walls and engaging the floor of the chute for preventing the side walls from collapsing.

1,782,555. ANIMATED DEVICE. ALFRED WEINSTEIN, Hamburg, Germany. Filed Apr. 23, 1929. Serial No. 357,509. 3 Claims. (Cl. 46—37.)



2. In an animated device, a plate bearing a representation thereon, a pivot pin fixed on said plate, a member rotatably mounted on said pin and having vanes, a nozzle opening in said plate adjacent said vanes, a transparent cup secured to said plate and covering said member and the nozzle and having an opening, a second plate secured at its edges to the first plate at the rear thereof, and a resilient member normally displacing said second plate from said first plate.

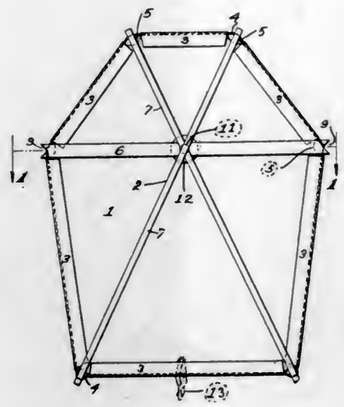
1,782,556. COKE AND PROCESS OF PRODUCING THE SAME. ALFRED H. WHITE, Ann Arbor, Mich., assignor to The Regents of The University of Michigan, a Corporation of Michigan. Filed Oct. 26, 1925. Serial No. 64,935. 11 Claims. (Cl. 202—8.)



1. The process of producing coke which comprises showering particles of finely crushed solid carbonizable material through a retort whose walls are heated to a temperature substantially above 700° C. while maintaining said particles out of contact with an appreciable amount of air thereby subjecting the particles to destructive distillation so as to completely carbonize the finest particles and leave the larger particles partially carbonized, and removing the solid residue from said retort while it is in a finely divided state and still contains a substantial amount of volatile matter.

8. A new product of manufacture comprising finely divided particles of puffed, porous coke containing a substantial amount of volatile matter and made by showering particles of finely crushed solid carbonizable material through a retort whose walls are heated to a temperature substantially above 700° C. while maintaining said particles out of contact with an appreciable amount of air thereby subjecting the particles to a destructive distillation so as to completely carbonize the finest particles and leave the larger particles partially carbonized and removing the solid residue from said retort while it is in a finely divided state and still contains a substantial amount of volatile matter.

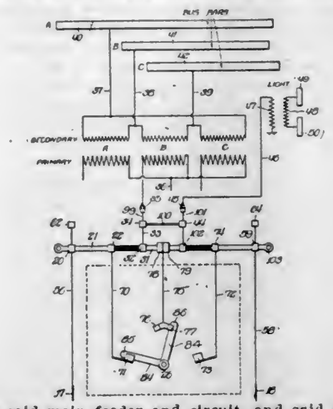
1,782,557. KITE. EDWARD B. WILDER, St. Louis, Mo. Filed Nov. 5, 1927. Serial No. 231,282. 6 Claims. (Cl. 244—22.)



1. A kite comprising a sail sheet and a frame consisting of crossed struts of which one is more flexible transversely of the kite than the others, and said sail sheet being attached to the ends of all of the struts.

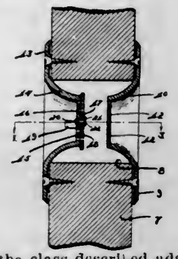
1,782,558. SYSTEM OF ELECTRICAL DISTRIBUTION AND CONTROL MEANS THEREFOR. PAUL F. WILLIAMS, Chicago, Ill., assignor to G. & W. Electric Specialty Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 26, 1925. Serial No. 11,717. 10 Claims. (Cl. 171—97.)

10. In a system of electrical distribution, the combination of a main feeder, an auxiliary feeder and a service circuit, and a self-contained unit connected to said main feeder, auxiliary feeder and service circuit and having means thereon interposed between said main and auxiliary feeders and said service circuit to selectively control connection between said main feeder and service circuit, and said auxiliary feeder and service circuit, said means including a member operable to selectively connect said main feeder and circuit, and said auxiliary feeder and circuit, means for rendering said member operative, and means for selectively effecting independent connections



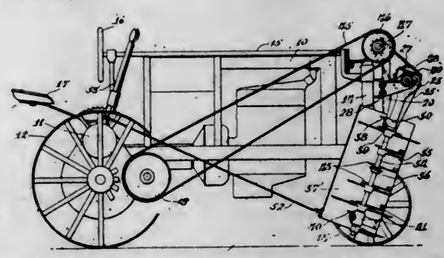
between said main feeder and circuit, and said auxiliary feeder and circuit upon said last named means being rendered inoperative.

1,782,559. MOUTHPIECE. JAMES P. WOODSIDE, Detroit, Mich. Filed Aug. 27, 1927. Serial No. 215,817. 3 Claims. (Cl. 181—22.)



1. A device of the class described adapted for use with a supporting structure having an opening formed therein, comprising: a cup-shaped member mounted on one side of said supporting structure and positioned in said opening and provided with a plurality of openings in its base; a cup-shaped member mounted on the opposite side of said supporting structure and positioned in said opening and provided with a plurality of openings in its base, said bases being faced toward each other, disconnected from each other and in spaced relation, and the openings thereof being in alignment; and means for closing the openings in one of said bases.

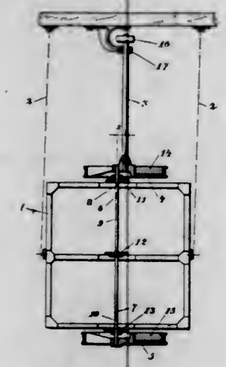
1,782,560. TRACTOR STALK CHOPPER. BERT R. BENJAMIN, Oak Park, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Mar. 1, 1929. Serial No. 343,578. 8 Claims. (Cl. 56—60.)



8. A stalk chopping attachment for tractors comprising upright supporting means adapted to be secured to the

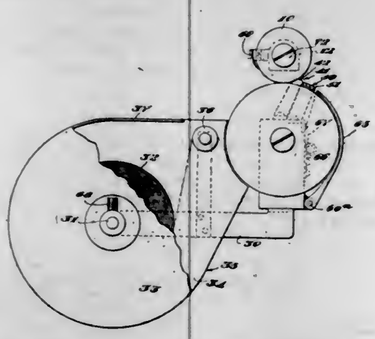
front end of a tractor, a supporting shaft having its central portion journaled on said supports and its ends extending from either side thereof, a housing pivotally mounted on each end of the supporting shaft and formed with a depending bearing sleeve, a depending cutter, shaft journaled in each sleeve, gearing within the housings connecting the supporting shaft and the cutter shafts, and means on the upright supporting means for driving the supporting shaft by power derived from the tractor.

1,782,561. SELF-BALANCING PLANSIFTER. FRANK BOLDIZSÁR, Rakospalota, Hungary. Filed Sept. 4, 1929, Serial No. 390,255, and in Hungary Jan. 14, 1929. 6 Claims. (Cl. 209—366.)



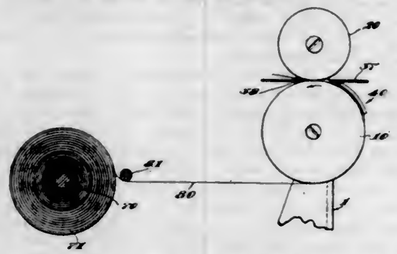
1. Arrangement for self balancing plansifters comprising a sieve case, a three part linked shaft passing through said case, self adjusting bearings mounted in said case and carrying said shaft, arms rigidly connected with the ends of said shaft, balance masses arranged on said arms and a rigid driving shaft connected with one of said arms.

1,782,562. TAPE-APPLYING MACHINE. LELAND K. BUTLER, Manchester, N. H., assignor, by mesne assignments, to Excel Taping Machine Co., Lynn, Mass., a Corporation of Massachusetts. Filed Apr. 5, 1928. Serial No. 267,714. 14 Claims. (Cl. 154—42.)



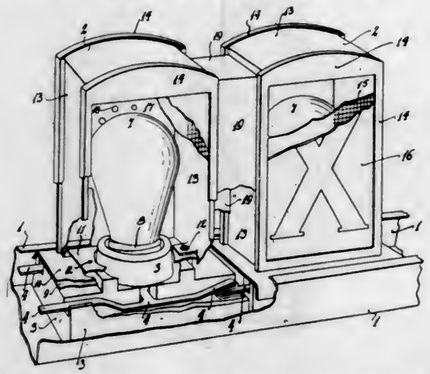
13. A machine of the class described comprising a pair of juxtaposed rolls, means for driving the rolls, a tape supplying means arranged to supply tape to a peripheral portion of one of said rolls which is disposed substantially 270° in a direction counter to that of the movement of that roll from the bite of the juxtaposed rolls, whereby the tape run may be in engagement with a considerable peripheral portion of said roll.

1,782,563. TAPE-APPLYING MACHINE. JEROME P. BYRON, Lynn, Mass., assignor, by mesne assignments, to Excel Taping Machine Co., Lynn, Mass., a Corporation of Massachusetts. Filed Aug. 31, 1927. Serial No. 216,702. 13 Claims. (Cl. 154—42.)



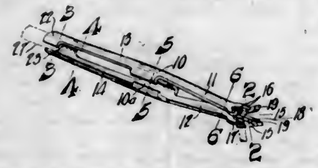
9. In a machine of the class described, a pair of juxtaposed rolls, a tape support positioned to supply a run of tape to a peripheral portion of one of said rolls that is remote from the bite of the rolls, means to receive the tape from said peripheral portion of the roll and to hold the tape run out of contact with a peripheral portion of that roll between the first-named portion and the portion which is juxtaposed to the other roll, whereby tape may be fed between the rolls substantially free from tension.

1,782,564. ELECTRIC SIGN. JOSEPH F. COUFAL and HARRY A. SMITH, New York, N. Y. Filed May 21, 1927. Serial No. 193,214. 4 Claims. (Cl. 40—130.)



1. In combination in a sign unit, an insulated base, a plurality of conducting members positioned therein, inwardly extending projections on said members co-acting to make contact with the terminals of an electric light bulb, and a container surrounding the bulb and having a replaceable sign element, the contact elements projecting from one end of the base, and recessed into its other end, and adapted to form electrical contact with adjoining units by their mere juxta-positioning.

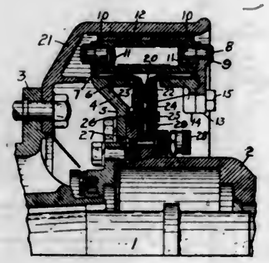
1,782,565. SCREW HOLDER. FRANK DOHNAL, Euclid, Ohio. Filed July 25, 1928. Serial No. 295,135. 7 Claims. (Cl. 145—52.)



1. A screw holder including means adapted to automatically hold the holder onto a screw driver and two

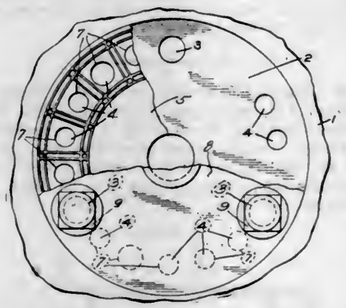
resilient prongs normally contracted at the outer end thereof, each of said prongs having a slot in the outer end thereof longitudinally of the prong for insertion of the head of a screw sidewise in between said prongs and longitudinally of the prongs and to form jaws on the ends of said prongs; each of said jaws having a notch therein to engage the head of the screw when the screw is swiveled from the sidewise inserted position thereof into an aligning position with the holder.

1,782,566. AUTOMOTIVE BRAKE. SIDNEY G. DOWN, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Mar. 12, 1927. Serial No. 174,929. 14 Claims. (Cl. 188—152.)



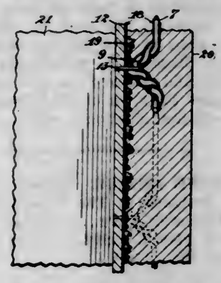
1. In an automotive vehicle brake, the combination with a brake drum therefor, of a support for a portion of said brake, brake shoes mounted on said support and movable into and out of engagement with said drum, and means removable from said support for rendering said shoes removable from said support without removing said brake drum.

1,782,567. GASKET. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed July 7, 1925. Serial No. 42,011. 2 Claims. (Cl. 303—1.)



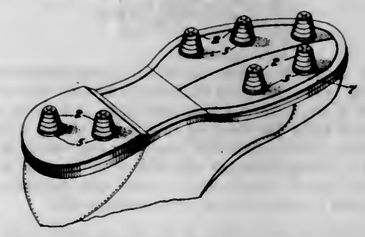
1. The combination with a member having a gasket face provided with openings having their centers on the same circle, some of the openings being symmetrically disposed bolt openings and the other openings being unsymmetrically disposed fluid pressure openings, and a cover plate of a gasket interposed between said member and said plate and having symmetrically disposed bolt openings adapted to register with the bolt openings in the gasket face and symmetrically disposed openings, some of which will register with the unsymmetrically disposed fluid pressure openings in the gasket face, whenever the bolt openings in the gasket register with the bolt openings in said member.

1,782,568. LATH. WILLIAM D. HICKS, Inglewood, Calif., assignor, by mesne assignments, to Master Wire Lath Company, Los Angeles, Calif., a Corporation of California. Filed July 14, 1923, Serial No. 651,673. Renewed June 8, 1928. 10 Claims. (Cl. 72—120.)



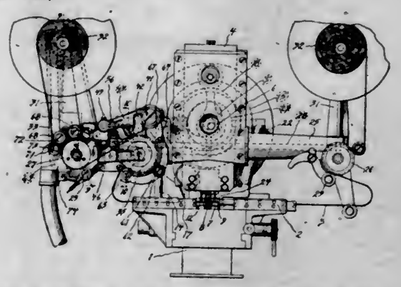
8. A latch comprising a wire netting of open mesh having projecting loop portions spaced longitudinally and transversely from each other extending from one side thereof, a fibrous backing sheet in contact with said projecting loop portions, and means for fastening said backing sheet and netting together at said points of contact.

1,782,569. ATHLETIC SHOE AND CLEAT THEREFOR. EMORY GUY HOWARD, Dudley, Mass., assignor to Koehler Manufacturing Company, Marlboro, Mass., a Corporation of Massachusetts. Filed Mar. 1, 1929. Serial No. 343,688. 2 Claims. (Cl. 36—59.)



1. A detachable football cleat comprising a tapered cleat body of approximately circular sectional form and composed essentially of superposed lifts of leather, a circular metal disk on which said body is mounted, said disk having a screw threaded edge and metal fastening means extending through said disk and body from one end of the body to the other and securing said body rigidly to said disk.

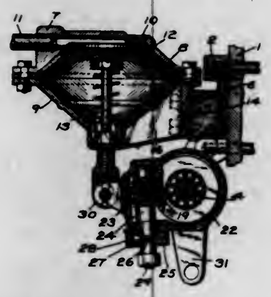
1,782,570. STRIP-PERFORATING MACHINE. ALBERT S. HOWELL, Chicago, Ill., assignor to The Bell & Howell Company, Chicago, Ill., a Corporation of Illinois. Filed July 6, 1927. Serial No. 203,789. 6 Claims. (Cl. 164—65.)



1. In a machine of the character described the combination with a revoluble roller, of spaced circumferential

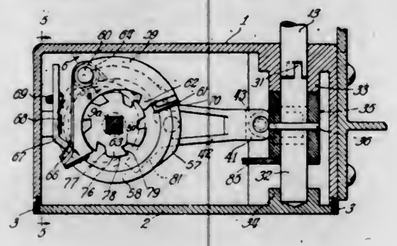
flanges on said roller, resilient means yieldably urging one of said flanges toward the other flange, a revoluble slitting wheel disposed on an axis parallel to that of the roller and adapted for slitting a strip on the roller between said flanges, a driven revoluble sprocket engageable with perforations in both sections of the strip for longitudinally drawing the strip on the roller for the slitting of the strip by said slitting wheel, and a second revoluble roller disposed in parallelism with said first mentioned roller and spaced from said slitting wheel and adapted to engage the strip on said first mentioned roller as it feeds to said first mentioned roller.

1,782,571. BRAKE DEVICE. HENRY D. HUKILL, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed May 9, 1927. Serial No. 189,752. 4 Claims. (Cl. 188—152.)



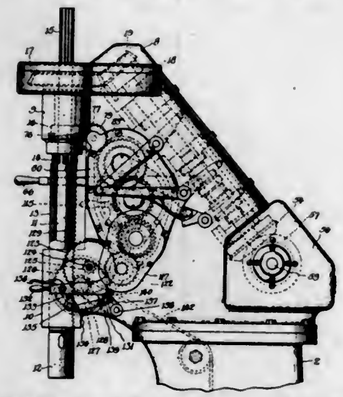
1. In a motor vehicle brake, the combination with a rotatable brake applying shaft, of a bracket for supporting said shaft, a worm wheel secured to said shaft, collars projecting from the sides of said worm wheel, a member mounted on said collars and enclosing said worm wheel, a rotatable worm mounted in said member and meshing with said worm wheel, and a lever arm through which said member is operated to rotate said shaft.

1,782,572. CLUTCH. RUDOLPH W. JANDA, Berwyn, Ill., assignor to Conlon Corporation, Cicero, Ill., a Corporation of Illinois. Filed June 25, 1928. Serial No. 288,154. 8 Claims. (Cl. 192—28.)



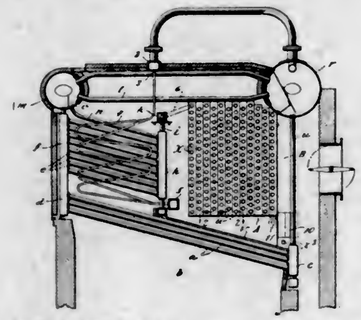
1. In combination, a driving shaft, a clutch member mounted on the shaft for rotation therewith and having outwardly projecting teeth, an eccentric mounted about the shaft and normally free therefrom, an operating arm having a strap fitting about the eccentric, mechanisms connected to said arm and reacting thereon in the direction of movement of the arm in the operation thereof, a pawl rockably mounted on the eccentric and having a clutch tooth adapted for cooperation with the teeth of said clutch member, yielding means urging the pawl into operative relation to the clutch member, and means for moving the pawl into inoperative position and holding it in such position, the following faces of the teeth of the clutch member being inclined outwardly thereof toward the tooth of the pawl and acting to prevent disengagement therefrom of the pawl tooth by the reaction pressure exerted on the arm when said eccentric is moved beyond dead center relative to said arm.

1,782,573. MACHINE TOOL. ALBERT M. JOHNSON, Rockford, Ill., assignor to Barnes Drill Company, Rockford, Ill., a Corporation of Illinois. Filed July 23, 1927. Serial No. 207,862. 6 Claims. (Cl. 77—5.)



1. In a machine tool, the combination of a closed casing substantially in the form of a right isosceles triangle positioned with one of its sides vertical, a pair of spindle bearings positioned one at the upper and lower extremities respectively of said side, a spindle in said bearings, change-speed mechanism geared to said spindle, said mechanism including a pair of shafts mounted in said casing in horizontally spaced relation and substantially parallel to the sloping upper side wall of said casing so as to provide a relatively large space between said shafts and the vertical forward wall of said casing, and gear mechanism operable to feed said spindle including feed-change gearing providing a plurality of feeding speeds, said gear mechanism being positioned as a removable unit within said casing between said change-speed mechanism and said vertical forward wall.

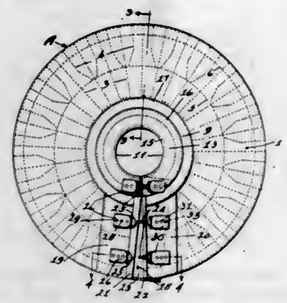
1,782,574. HEAT-TRANSFER DEVICE. EDWIN WALTER JONES, Lincoln, England, assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Original application filed Nov. 13, 1924, Serial No. 749,578, and in Great Britain Nov. 23, 1923. Divided and this application filed Oct. 28, 1927. Serial No. 229,448. 5 Claims. (Cl. 257—248.)



1. A heat transfer device comprising two sets of headers connected by tubes, the headers of each set being

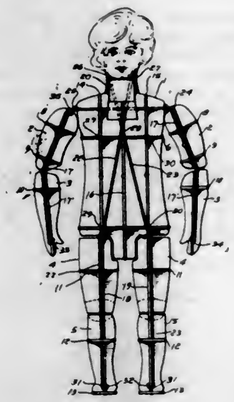
arranged side by side, the headers at one end of said device being substantially rectangular in cross section, and the headers at the opposite end of said device being generally L shaped in cross section and arranged back to back thereby forming inwardly opening pockets, said pockets being of sufficient width to receive the ends of said tubes.

1,782,575. EXTRACTOR COVER. JOHN P. LYNCH, Los Angeles, Calif. Filed Feb. 4, 1929. Serial No. 337,402. 12 Claims. (Cl. 210—63.)



1. A device of the character described comprising a flexible fabric cover of circular form and having a radial split and a central opening therein, means for reinforcing the margin of the cover at said opening, and means for detachably connecting the edges of the cover adjacent said split.

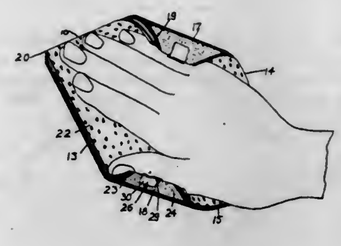
1,782,576. CONSTRUCTION OF SMALL ORNAMENTAL FIGURES OR DOLLS. CORÂNNE MACGREGOR, Cleveland Heights, Ohio. Filed July 13, 1929. Serial No. 378,075. 4 Claims. (Cl. 46—40.)



1. An ornamental figure comprising an internal frame consisting of pieces crossed to form spaces therebtween, pads in said spaces between the pieces, said pads cooperating with the periphery of said pieces to define the shape of said figure, and an extenal covering applied thereto.

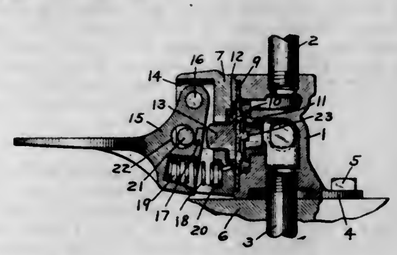
1,782,577. HAND SANDPAPER HOLDER. RALPH W. MARIS, Long Beach, Calif. Filed Aug. 8, 1928. Serial No. 298,175. 10 Claims. (Cl. 51—187.)

1. A sand paper holder having a flat metal plate with the opposite marginal edges having an upward and an inward curl, sand paper fitted over the bottom of the plate and over the curled marginal edges, said paper being



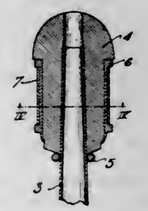
turned under the opposite edges of the curl of the plate and clamps fitting in the curled portion of the plate and over the marginal edges of the paper.

1,782,578. FOOT-VALVE DEVICE. JOSEPH C. MCCUNE, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Feb. 11, 1929. Serial No. 339,054. 4 Claims. (Cl. 251—24.)



3. A foot valve device for a safety car control equipment having a control pipe comprising a casing interposed between sections of said pipe, a member having a cavity, a diaphragm valve mounted between said member and casing for controlling communication through said pipe, a stem engaging said valve, a pedal pivotally mounted in said cavity for operating said stem, and a spring disposed in said cavity and interposed between said pedal and said member for urging said pedal away from said stem.

1,782,579. ATTACHMENT FOR OIL CANS. EMMET H. MORROW, Chicago, Ill., assignor to Automatic Oilingseal Corporation, a Corporation of Illinois. Filed May 3, 1928. Serial No. 274,700. 3 Claims. (Cl. 221—56.)



1. An oil can attachment comprising a resilient sleeve having a hemispherical outer end, a metallic band there-

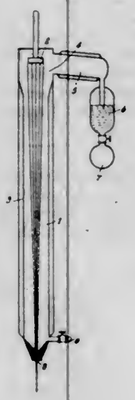
around to prevent spreading of said attachment, said sleeve being adapted to engage the spout of an oil can with the hemispherical end projecting beyond the tip of said spout.

1,782,580. VALVE FOR PNEUMATIC TIRES OR THE LIKE. EUGENE V. MYERS, East Orange, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 7, 1923. Serial No. 630,480. 10 Claims. (Cl. 152—12.)



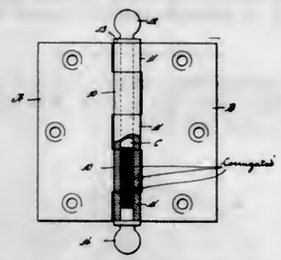
1. A valve for tires or the like, comprising a casing having an integral seat, a check adapted to be passed through the top of said valve to a point below said seat, means for preventing blowing out of said check, and a shoulder below said seat past which said check may be forced to a non-working position with relation to said seat.

1,782,581. APPARATUS FOR THE MANUFACTURE OF ARTIFICIAL SILK. HENRI FRANÇOIS NIOGRET, Lyon, France, assignor, by mesne assignments, to Du Pont Rayon Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 14, 1928, Serial No. 270,104, and in France Apr. 14, 1927. 2 Claims. (Cl. 18—8.)



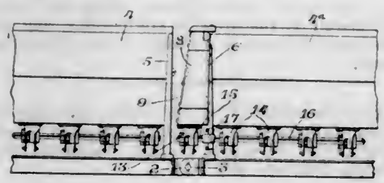
1. An apparatus for the manufacture of artificial filaments by dry spinning of solutions of cellulose derivatives in volatile solvents comprising a closed cell, means for heating said cell, a condenser directly connected to the cell by a single large aperture, and means for cooling said condenser.

1,782,582. HINGE. HORACE H. RAYMOND, Berlin, Conn., assignor to The Stanley Works, New Britain, Conn., a Corporation of Connecticut. Filed May 5, 1928. Serial No. 275,376. 3 Claims. (Cl. 16—169.)



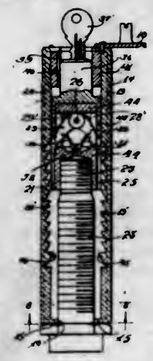
1. A hinge having a pair of leaves with interfitting knuckles, a removable pin engaging in said knuckles, and complementary corrugations on the pin and a knuckle, the greatest diameter of the corrugations of said pin being less than the smallest internal diameter of the complementary corrugations on said knuckle.

1,782,583. GRAIN DRILL. CHARLES W. ROBINSON, Hamilton, Ontario, Canada, assignor, by mesne assignments, to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed July 8, 1929. Serial No. 376,638. 5 Claims. (Cl. 111—53.)



1. An extension drill adapted to fill in between the ends of two grain drills pivotally joined end to end to form a duplex drill which comprises a feed box positioned between the adjacent ends of said drills and secured to the end of one drill, a seed cup attached to the feed box, and means for operating said seed cup.

1,782,584. TIRE-VALVE DUST CAP AND LOCKING MECHANISM THEREFOR. JOHN T. RYAN, Detroit, Mich. Filed Dec. 27, 1926. Serial No. 157,116. 6 Claims. (Cl. 152—12.)

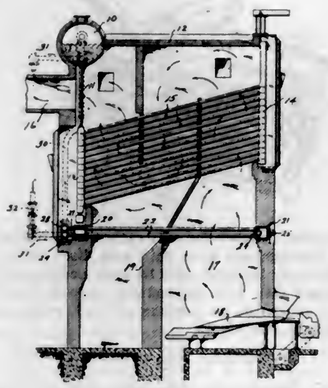


1. A device of the class described adapted for mounting on a tire valve stem, comprising: a head for threading

CARNEGIE LIBRARY OF ATLANTA

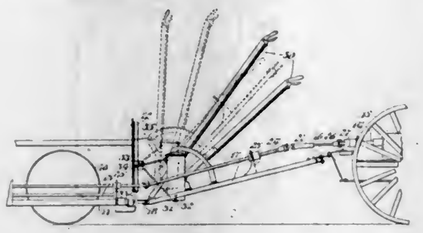
on said stem; a casing movable axially of said head for covering said stem after the threading of said head thereon; locking means for preventing the movement of said casing in the opposite direction; and means for releasing said locking means.

1,782,585. SUPERHEATER. CHARLES ULYSSE SAVOYE, Hackensack, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Nov. 4, 1924. Serial No. 747,708. 10 Claims. (Cl. 122—481.)



3. A steam boiler, a furnace therefor, a superheater having a portion thereof located in proximity to said furnace and having its tubes directly exposed to the radiant heat of the furnace and a water-cooled core in each of said tubes.

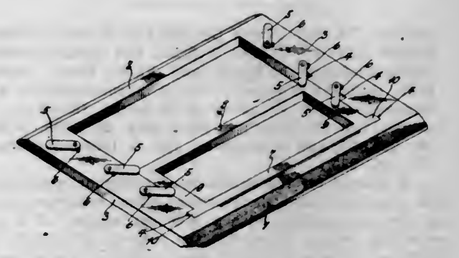
1,782,586. BINDER HITCH. DANIEL W. SMITH, Oak Park, and WILLIAM WEBBER, La Grange, Ill., assignors to International Harvester Company, a Corporation of New Jersey. Filed May 18, 1927. Serial No. 192,193. 9 Claims. (Cl. 56—22.)



1. The combination with a binder having a main frame, of a hitch therefor, said hitch comprising a draw frame pivotally connected to the binder main frame on horizontal pivots and adapted for detachable connection on a vertical pivot to the drawbar of a tractor, and a twine can pivotally connected to and carried by the draw frame.

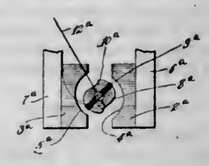
1,782,587. PRINTER'S CHASE FOR CHECKS AND THE LIKE. EDWARD H. STADLER, St. Louis, and GEORGE E. DILLINGHAM, Richmond Heights, Mo. Filed Feb. 27, 1929. Serial No. 343,068. 2 Claims. (Cl. 101—394.)

1. A printer's chase comprising a main frame having notches in the inner edges of its ends, a secondary frame arranged to be supported in different adjusted positions in the main frame, projections from the ends of the secondary frame arranged to seat in said notches respectively and to support said secondary frame in different



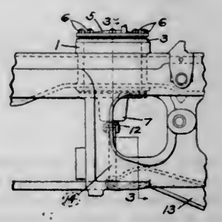
adjusted positions in the main frame, and pivoted holders on the main frame movable to position to overlap adjacent portions of the secondary frame.

1,782,588. ELECTRICAL MEASURING INSTRUMENT. FREDERICK EMMONS TERMAN, Stanford University, Calif. Filed Feb. 13, 1928. Serial No. 253,952. 3 Claims. (Cl. 171—95.)



1. A galvanometer comprising, pole pieces, a rotor coil mounted to rotate between the pole pieces and carrying a needle, said pole pieces being shaped to effect a change in the magnetic flux passing through the rotor coil as the same rotates from the position of zero deflection to full deflection whereby the deflection of the needle increases in proportion to the square root of the current applied to the galvanometer.

1,782,589. BRAKE CYLINDER. HENRY A. WAHLERT, St. Louis, Mo., assignor to The American Brake Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 3, 1929. Serial No. 389,915. 4 Claims. (Cl. 105—230.)



1. The combination with a vehicle frame having an opening therein, of a brake cylinder device comprising a

cylindrical portion insertable in said opening, a flange on said cylindrical portion in supporting engagement with said frame, a pressure head clamped against said flange, and a non-pressure head clamped against said cylindrical portion.

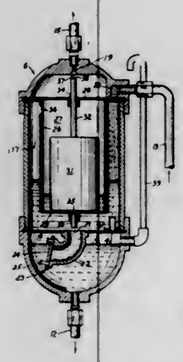
1,782,590. ELIMINATION OF SULPHUR COMPOUNDS FROM GASES. GUSTAV WIETZEL and JOSEF JANNEK, Ludwigshafen-on-the-Rhine, and FRITZ FRIED, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Mar. 29, 1928, Serial No. 265,811, and in Germany Apr. 8, 1927. 7 Claims. (Cl. 23—225.)

1. A process for the elimination of sulphur compounds from gases by a catalytic treatment, which comprises passing the gas, together with a sufficient amount of a gas containing oxygen to oxidize the sulphur compounds to oxygen compounds of sulphur, over an active catalyst comprising a metal other than an alkali metal and a metalloid from groups 5 and 6 of the periodic system other than oxygen at an elevated temperature and combining the sulphur oxids with the requisite amount of ammonia to form the corresponding ammonium salt and separating the latter.

1,782,591. MANUFACTURE OF ALKYL FORMATES. RUDOLF WIETZEL, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Feb. 9, 1926, Serial No. 87,170, and in Germany Feb. 13, 1925. 4 Claims. (Cl. 260—106.)

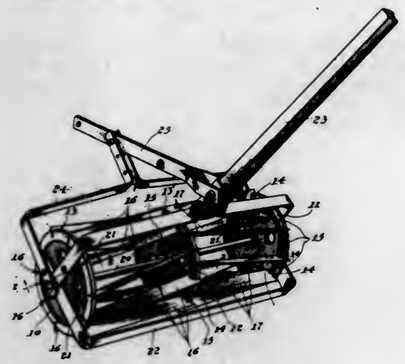
1. The process of manufacturing alkyl formates which comprises acting on a liquid aliphatic alcohol with a gas comprising carbon monoxid and a substantial amount of an inert gas selected from the group consisting of hydrogen and nitrogen.

1,782,592. FUEL-FEEDING DEVICE. DWEN R. YOUNGER, Woodland, Calif., assignor of one-half to Earl L. Younger, Woodland, Calif. Filed Mar. 10, 1928. Serial No. 260,556. 5 Claims. (Cl. 103—236.)



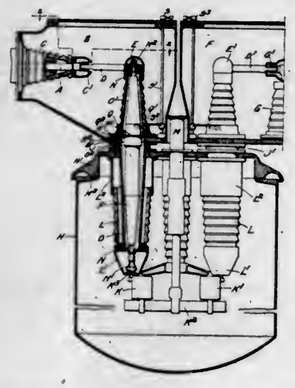
1. In a fuel feeding system, a tank providing a vacuum chamber having a one-way pressure controlled discharge valve therefor, means for producing a partial vacuum in said chamber for drawing liquid thereinto from an external source, means periodically operative to render said vacuum producing means inoperative with respect to said chamber, and means providing for a restricted and constant communication of said chamber with the atmosphere through the liquid in said chamber.

1,782,593. CULTIVATOR. JOHN F. ZEILINGER, David City, Nebr., assignor to The Barker Manufacturing Company Inc., David City, Nebr., a Corporation of Nebraska. Filed Mar. 20, 1929. Serial No. 348,377. 3 Claims. (Cl. 97—52.)



1. A rotary member for cultivators comprising end discs and an intermediate disc, said end discs being provided with oppositely inclined slots in their peripheries and said intermediate disc with alternating oppositely inclined cooperating slots in its periphery; and cultivator blades positioned in said slots.

1,782,594. ELECTRIC SWITCH GEAR. ARCHIBALD ALLAN, Tynemouth, England assignor to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England, a Company of Great Britain. Filed Jan. 10, 1930, Serial No. 419,984, and in Great Britain Feb. 11, 1929. 9 Claims. (Cl. 200—150.)

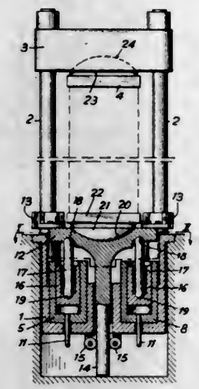


1. Oil-immersing electric switch gear including in combination, a main oil tank, a cover for the tank, a circuit-breaker in the tank, at least one terminal passing through the cover and leading to the circuit-breaker, an isolating switch mounted on the end of the terminal outside the tank, and means for rotating at least a part of the terminal so as to operate the isolating switch.

1,782,595. HYDRAULIC PRESS PARTICULARLY FOR TESTING MATERIALS. ALFRED J. AMSLER, Schaffhausen, Switzerland. Filed July 5, 1929, Serial No. 376,234, and in Germany May 14, 1929. 3 Claims. (Cl. 138—17.)

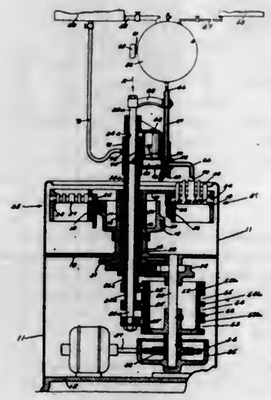
1. In a hydraulic press, particularly for testing the strength of materials and in which the liquid pressure

serves for measuring the load exerted, in combination, a plurality of presspots arranged around the central axis of the press in such a manner as to cooperate in groups each group exerting a resultant force which acts in the central axis, each presspot consisting of a cylinder and a ram, a frame, a table movable along said frame and adapted to



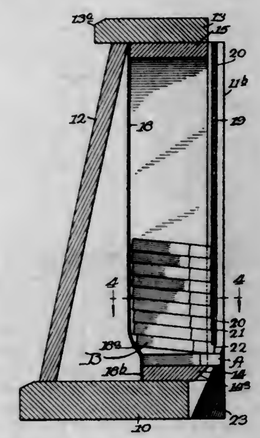
bear against the specimen to be pressed, and a stud interposed between every ram and said table and provided with spherical surfaces cooperating with similar shaped surfaces provided on the ram and on said table to prevent eccentric pressure on said table being transmitted to said rams.

1,782,596. AUTOMATIC FOOD-UNIT-FILLING MACHINE. HARVEY A. BEILGARD, Hollywood, Calif. Filed June 1, 1926. Serial No. 112,858. 40 Claims. (Cl. 107—28.)



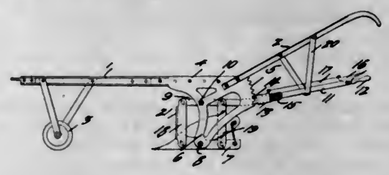
1. An organization for the production of edible units comprising: a filling nozzle; means for holding a pastry shell, or the like, relatively to said nozzle; means producing relative movements of insertion and withdrawal between said nozzle and said shells; and means for ejecting a filling material, through said nozzle, during a withdrawal movement thereof, said nozzle being provided with a cutting edge, and said holding means being movable between an open position and a closed position and so shaped as to permit said relative movement of insertion and withdrawal while closed.

1,782,597. DISPENSING CABINET. HORACE L. BLACKMAN, Janesville, Wis., assignor to The Parker Pen Company, Janesville, Wis., a Corporation of Wisconsin. Filed May 24, 1928. Serial No. 280,141. 15 Claims. (Cl. 312—42.)



1. In a dispensing cabinet, means for forming a plurality of vertical compartments each adapted to receive articles stacked upon each other, said compartments having horizontally discharging openings in their bottoms, each of said openings permitting the delivery of one article only, and means for feeding said articles toward said openings and projecting them in part therethrough where they may be readily grasped for removal comprising a back wall having an upper vertical surface terminating in a forwardly and downwardly sloping wall surface which joins a forwardly offset vertical wall surface leading to said bottom whereby, as the lowermost articles are removed, the upper articles are fed downwardly and then projected forwardly in part through said openings and are finally dropped upon said bottom in a position offset forwardly of the articles above.

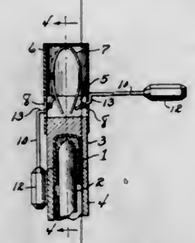
1,782,598. PLOW. CÉSAR BORDAS DE LA FÉ, Habana, Cuba. Filed Oct. 8, 1929. Serial No. 398,206. 6 Claims. (Cl. 97—110.)



1. A plow including a beam, a frame secured thereto, a plowshare and moldboard unit pivotally mounted on the frame, a manually operable lever pivotally mounted on the frame, and links connecting the lever and said units on opposite sides of the respective pivots, the forward link being sharpened to form a cutting edge.

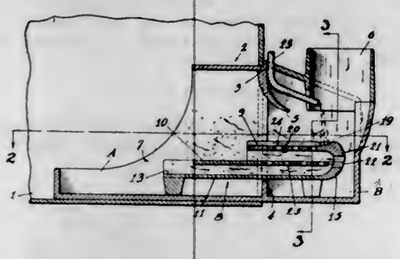
2. A plow including a beam, a frame secured thereto, a plowshare and moldboard unit pivotally mounted on the frame, a manually operable lever pivotally mounted on the frame, links connecting the lever and said unit on opposite sides of the respective pivots, the front edge of the forward link being sharpened to form a cutting edge, said frame being formed with a plurality of teeth, and a manually controlled dog on the lever for co-operating with the teeth to lock the lever in a plurality of positions.

1,782,599. CLINICAL THERMOMETER. JOSEPH ARTHUR BOUTIN, Phoenix, Ariz. Filed Jan. 10, 1930. Serial No. 419,955. 2 Claims. (Cl. 73—52.)



2. In combination with a thermometer, a cap connected with one end thereof, a socketed member in which the cap fits, with one end of the cap projecting from the member, whereby a closure member for the thermometer can be placed over the projecting end of the cap and frictionally held thereby, a large cap fitting over the upper end of the member and having oppositely arranged openings therein, an arm having one end portion offset extending through each opening, trunnions on said end portions engaging portions of the inner walls of the cap for hingedly connecting the arm with the cap, a looped spring in the cap engaging the inner ends of the arms for holding said arms in either a horizontal position or a vertical position and knobs on the outer ends of the arms whereby said knobs can be rolled between the fingers and thumbs to cause a swinging movement of the thermometer to cause the mercury therein to descend.

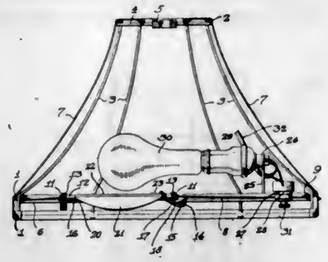
1,782,600. BURNER. GEORGE THOMAS BRADO, Reno, Nev. Filed Jan. 28, 1929. Serial No. 335,612. 3 Claims. (Cl. 158—91.)



1. A vaporizer comprising a bottom plate having a shallow trough, an intermediate plate supported by the side walls of the trough and terminating short of one end of the trough, and a top plate having a recess in each of its top and bottom surfaces and terminating short of the intermediate plate on the end nearest the foregoing end of the trough, the opposite end of the top plate and the adjacent end of the bottom plate abutting each other and having recesses which coact to provide an opening for the passage of air above and below the intermediate plate, said top and intermediate plates having openings staggered with respect to each other.

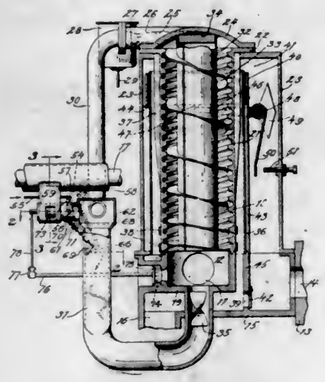
1,782,601. LAMP SHADE. CHARLES T. BRADY, Detroit, Mich. Filed Nov. 19, 1928. Serial No. 320,309. 5 Claims. (Cl. 240—1.)

2. In combination with a lamp shade including a ring member of spring material at the light-emitting end thereof, a closure member consisting of a frame member of spring material and of substantially the same dimensions as said ring member, substantially opaque material covering said last named frame member, said material



having an opening, a shutter hinged to the closure member and adapted to cover said opening, and a light-modifying device in said shutter.

1,782,602. METHOD OF AND APPARATUS FOR VAPORISING LIQUID FUELS. FREDERICK F. BRUSH, Chicago, Ill., assignor to Paragon Vaporizer Corporation, Chicago, Ill., a Corporation of Illinois. Filed July 15, 1929. Serial No. 378,362. 11 Claims. (Cl. 123—133.)

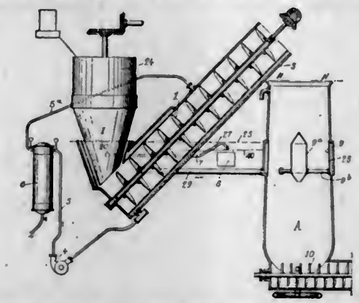


1. In a vaporizer for hydrocarbon fuels for use in internal combustion engines, a pair of air stream conduits, means whereby fuel in liquid form is supplied to one of said pair of conduits, means for heating the mixture in said conduit to vaporize the fuel, means for combining the two streams after said heating is accomplished, and means whereby the air stream in the first mentioned conduit is preliminarily heated in accordance with temperature conditions of the combined streams.

1,782,603. DIFFUSION PLANT. CHARLES CAMUSET, Bretigny-sur-Orge, France. Filed Aug. 30, 1926, Serial No. 132,572, and in France Sept. 25, 1925. 7 Claims. (Cl. 127—6.)

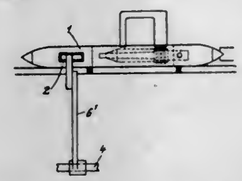
1. In a diffusion plant, a receptacle for the material to be exhausted, a number of substantially vertical diffusers, means whereby the said material is circulated through said receptacle and said diffusers in a continuous manner and in one direction from said receptacle to the last diffuser, means for feeding exhausting liquid in the last diffuser at the exit end of said material, connecting means

between the diffusers and between the first diffuser and said receptacle adapted to allow said exhausting liquid to flow successively in a continuous manner from the



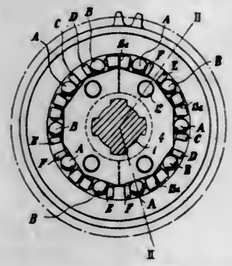
last diffuser to said receptacle and in an opposite direction to that of said material in each diffuser and in said receptacle, and means for regulating the level of said liquid in said last diffuser.

1,782,604. SHUTTLE-GUARD DEVICE FOR SHUTTLES WITHOUT THREADING DEVICES FOR AUTOMATIC LOOMS. ERNST EGLI, Ruti, Switzerland, assignor to Maschinenfabrik Rüti vormals Caspar Honegger, Ruti, Switzerland. Filed Aug. 14, 1929, Serial No. 385,701, and in Switzerland Feb. 2, 1929. 3 Claims. (Cl. 139—252.)



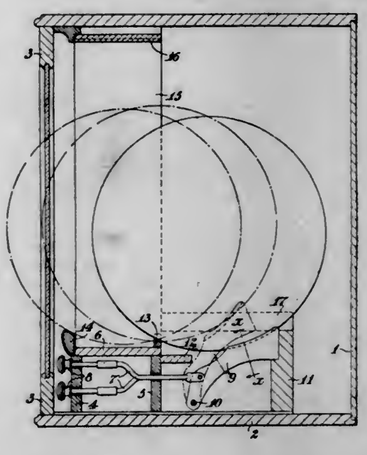
1. In a shuttle-guard device for shuttles without threading device, for automatic looms, the combination comprising a shuttle having a transverse-opening, a wedge-piece capable of entering into the said opening when the shuttle is in its correct position and of automatically correcting an error of position of the shuttle of about 1 cm. to the left or right, means connected to the weft-feeler to move the wedge-piece against the shuttle in the moment of changing the bobbin and means interposed between the said wedge-piece and the bobbin changing hammer to prevent changing of the bobbins in the event of a greater error of position of the shuttle.

1,782,605. TRANSMISSION MECHANISM. JAMES FARLEY, Hertford, England. Filed Apr. 14, 1927, Serial No. 183,867, and in Great Britain Apr. 23, 1926. 8 Claims. (Cl. 192—47.)



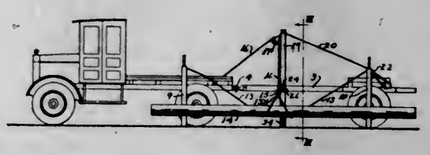
1. In clutch mechanism including wedging members disposed between a polygonal member and a coaxial cylindrical face, a free composite cage for the wedging members whereby transmission may be effected whether the polygonal or the coaxial cylindrical face is operating as a driver, said composite cage including two parts angularly movable relative to each other, a series of wedging members mounted in each part, and registering means rotatable with said polygonal member for securing the cage parts with the wedging members free of the said cylindrical face whereby transmission is interrupted.

1,782,606. CABINET FOR THE STORAGE OF GRAMOPHONE DISK RECORDS AND THE LIKE. VIRGILIO FRASCHETTI, London, England. Filed Apr. 25, 1929, Serial No. 358,086, and in Great Britain May 17, 1928. 2 Claims. (Cl. 312—15.)



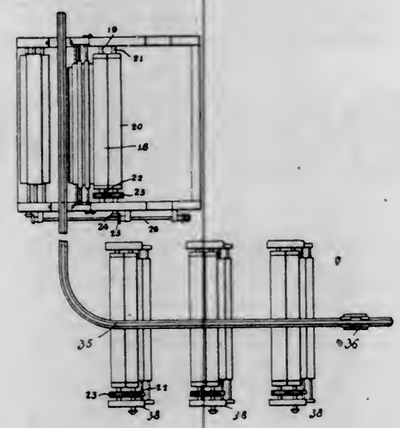
2. In a record storage cabinet front and rear uprights, front and rear strips supported by said uprights forming a record cradle, a pivoted tipping member located behind the rear upright cooperating with the rear strip to form a record seat, said tipping member having a groove to receive an edge portion of a record and the base of said groove being curved to conform substantially to the curvature of the edge of the record.

1,782,607. LOADING DEVICE. WALTER A. FREEMAN, Augusta, Kans. Filed Feb. 1, 1928. Serial No. 251,134. 1 Claim. (Cl. 214—94.)



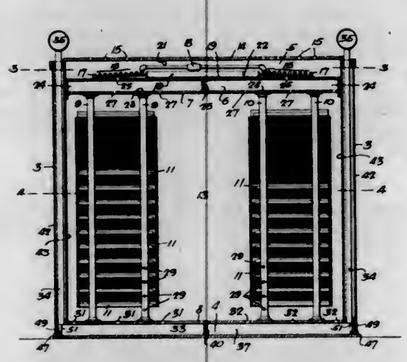
The combination with a motor driven truck, of a two wheeled extension truck having a tongue connection to the main truck; a boom pole adapted for support by the ground and intermediate the two truck elements; a spacer rigid to and outwardly extending from the tongue connection and towards the boom pole and terminating in a forked element; a tongue element rigid to an intermediate part of the boom pole; and an adjustable hinged connection of said forked spacer element with the tongue element on said boom pole.

1,782,608. PRINTING PRESS. GEORGE L. FULK, Cleveland, Ohio, assignor, by mesne assignments, to Bonnar-Vawter Fanform Company, Inc., Cleveland, Ohio, a Corporation of Delaware. Filed Apr. 13, 1926. Serial No. 101,633. 17 Claims. (Cl. 101—180.)



1. A printing press having a supporting frame provided at opposite sides of the press with aligned sockets open at one side, a block slidably mounted in each socket, and a pair of cylinders journaled at opposite ends in said blocks, said blocks and cylinders being removable from the press as a unit.

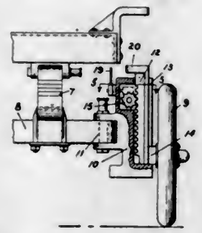
1,782,609. INCUBATOR. WILLIAM R. GASKILL, Frenchtown, N. J., assignor to Richard W. Kerr, Frenchtown, N. J. Filed Nov. 3, 1924. Serial No. 747,661. 1 Claim. (Cl. 119—35.)



In an incubator, the combination of an incubating chamber, of a plurality of tray-supporting standards within said chamber, at least one of said standards being hollow, a port communicating with the top of said hollow standard, ports in said standard at a point below the top, and means for creating a circulation of air through the standard and out of said ports into the said chamber.

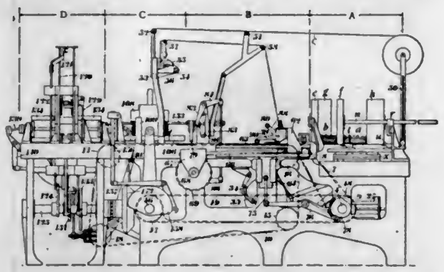
1,782,610. GUN CARRIAGE. SAMUEL G. GREEN, Jones, Ga. Filed Aug. 9, 1929. Serial No. 384,745. 2 Claims. (Cl. 280—6.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757).

1. A gun carriage including front and rear axles, a jack pedestal on each extremity of the axle, the pedestals provided with a foot, and the pedestals on at least one axle being pivoted for steering, a rack bar in each pedestal, means for actuating the rack bar, a stub axle on the lower portion of the rack bar, a wheel on the stub axle, and a



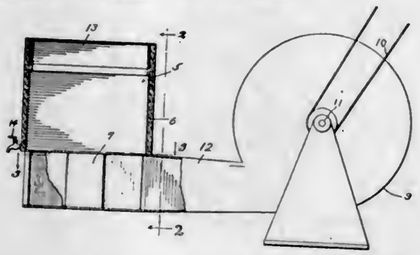
platform suspended on the axles, having portions overlying the rack bar in position to be engaged by the rack bar in position to be engaged by the rack bar when the foot of the pedestal contacts the ground to support the platform independently of the wheels.

1,782,611. MANUFACTURE OF CARDBOARD BOXES. HENRY HACKETT, Selly Oak, Birmingham, and ARTHUR WHITTAKER, Northfield, Birmingham, England. Filed Sept. 16, 1929, Serial No. 393,055, and in Great Britain Dec. 31, 1928. 8 Claims. (Cl. 93—41.)



1. In a machine for the manufacture of boxes from a main piece and two shorter side pieces of cardboard or like material, means whereby the said pieces are correlated on a horizontal table so that the side pieces lie centrally with respect to opposite sides of the main piece, means whereby two adhesive flexible strips are attached to the said pieces, leaving overhanging portions, and means whereby the side pieces and the ends of the main piece are folded and the said overhanging portions of the adhesive strips are caused to secure the folded portions, substantially as described.

1,782,612. AIR-COOLING DEVICE. ROBERT H. HARDIN, Bakersfield, Calif. Filed Feb. 15, 1930. Serial No. 428,799. 2 Claims. (Cl. 257—202.)



1. In a device of the character described, a body portion for the reception of water and ice, said body portion

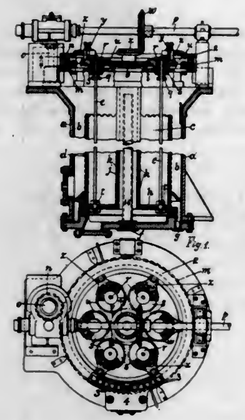
having a transversely disposed passageway, a plurality of hollow members arranged within the passageway, said hollow members having offset end portions to cause air forced between the hollow members to take an irregular path, means for forcing air between the hollow members, and means for causing the water in the body portion to enter from the top to the bottom of the hollow members.

1,782,613. FISHING TOOL. EARL A. HAZEN, Joplin, Mo., assignor to Keystone Driller Company, Beaver Falls, Pa., a Corporation of Pennsylvania. Filed May 8, 1926. Serial No. 107,722. 7 Claims. (Cl. 294—86.)



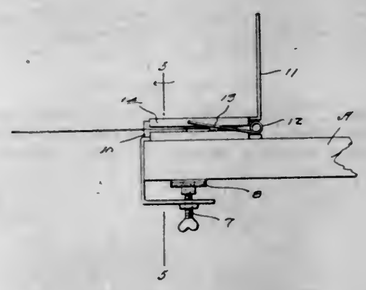
1. A fishing tool having a tubular horn socket portion terminating in an inclined edge, and formed with a slot in its wall extending upwardly from the region of the highest part of said edge, and having opposed helical sides; the slot having smooth and unbroken walls to serve as a guide.

1,782,614. ELECTRODEPOSITION OF METALS. JACK HOLLINS, Rosemount, Middlewich, England, assignor to Imperial Chemical Industries Limited, London, England, a British Company. Filed Jan. 22, 1929, Serial No. 334,256, and in Great Britain Feb. 25, 1928. 7 Claims. (Cl. 204—11.)



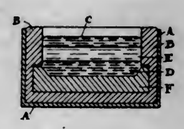
1. A vat for the electro-deposition of metals comprising, in combination, an anode compartment, a cathode compartment, a filter diaphragm between the said compartments, a rotating head above the cathode compartment, mandrels constituting cathodes suspended from said head and extending into the cathode compartment, means for rotating said mandrels about their axes, a vertical perforated tube extending up through the cathode compartment, connected to the rotating head at its upper end and providing a steady for the lower ends of the mandrels, and means delivering electrolyte within said perforated tube through which it diffuses into the cathode compartment to overflow the filter diaphragm into the anode compartment.

1,782,615. WORKHOLDER. CARRIE S. HOPWOOD, Hinsdale, Mont. Filed June 18, 1928. Serial No. 286,233. 1 Claim. (Cl. 223—54.)



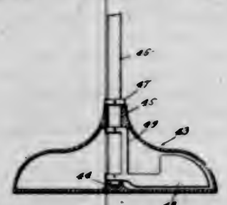
A work clamp comprising a pair of superposed flat jaw members, an upstanding arm formed on the rear end of the upper jaw member, a depending arm formed on the forward end of the lower jaw member, an inwardly extending leg on said arm arranged in parallel relation to the lower jaw, a clamp bolt carried by said leg, longitudinally extending flanges formed on the side edges of the jaw members, a transversely extending coil spring arranged between said jaw members having arms formed on the opposite ends thereof anchored in the opposite flanges of said members, and flat cushion jaw faces carried by the jaw members and confined between said flanges.

1,782,616. ELECTROLYTIC APPARATUS FOR REFINING ALUMINUM AND FOR LIKE PROCESSES. PAUL LÉON HULIN, Grenoble, France, assignor to Societe Anonyme Compagnie de Produits Chimiques et Electrometallurgiques Alais, Froges et Camarque, Paris, France. Filed June 19, 1928, Serial No. 286,588, and in Germany July 4, 1927. 7 Claims. (Cl. 204—20.)



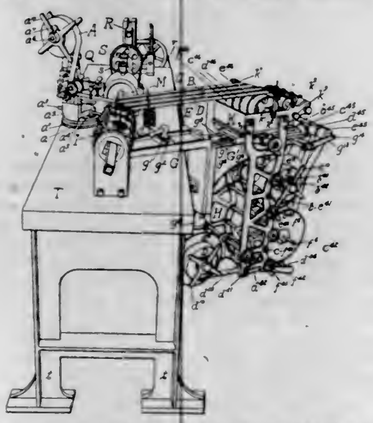
1. An electrolytic apparatus for refining aluminum, extracting other metals, and similar operations, comprising a shell containing three superimposed layers in a state of fusion consisting of an anode of a dense alloy of the metal to be extracted, a halogenated bath forming the electrolyte, and a light metal forming the floating cathode, and an inner lining composed of a horizontal frame, of refractory material or carbon, surrounding the anode, a horizontal frame of insulating material containing the electrolyte, and a frame composed substantially of carbon, surrounding the cathode and insulated from the metal shell.

1,782,617. ADJUSTABLE STAND AND RACK. FREDERICK C. HUONKER, Dayton, Ohio. Filed Nov. 27, 1928. Serial No. 322,278. 1 Claim. (Cl. 248—91.)



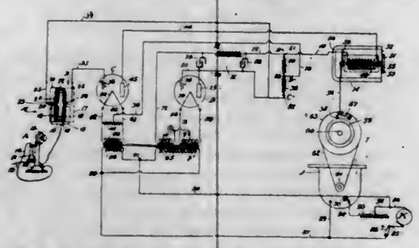
In an adjustable stand and rack structure of the class described, a standard, and supporting means for said standard comprising a hollow flat bottom base provided with vertically alined bearings, said standard being rotatable in said bearings, and a counterweight in said base attached to said standard.

1,782,618. PAPER-STRIP-CONTROLLING MECHANISM. ROBERT J. JAUCH, Fort Wayne, Ind. Filed Apr. 6, 1927. Serial No. 181,408. 2 Claims. (Cl. 271—2.1.)



1. In combination with a paper tube-making machine adapted to form paper tubes polygonal in cross section from strips of paper by drawing said strips onto a polygonal mandrel, said machine having such mandrel, an element from which such a strip is supplied to said mandrel and means for vertically adjusting said element.

1,782,619. DEVICE FOR ELECTRICALLY-RECORDING TELEPHONIC SOUNDS AND CONVERSATIONS AND SYSTEM THEREFOR. MANFRED J. JOHNSON, Bridgeport, Conn., assignor to Dictaphone Corporation, Bridgeport, Conn., a Corporation of New York. Filed May 25, 1927. Serial No. 194,039. 7 Claims. (Cl. 179—6.)



1. The step in the method of recording telephone signals which consists in mechanically attaching a core and winding in magnetic and inductive relation to the core and winding of a service receiver of a service telephone system to provide a transformer for picking up sound produced currents.

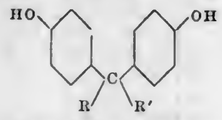
1,782,620. FOOTWEAR. WYATT J. JONES, Niles Center, Ill., assignor of one-half to Glenn S. Noble, Chicago, Ill. Filed Feb. 25, 1929. Serial No. 342,470. 1 Claim. (Cl. 36—1.)



The combination with a shoe, of a flexible shoe horn comprising a strip of leather having one end widened so as to form a heel portion disposed over the rear portion of the insole area of the shoe and substantially co-extensive therewith and having its forward portion secured in the bottom of the shoe, the strip being tapered gradually toward the other end to form a tongue adapted to extend up to the top of the heel, said tongue and adjacent portion being free from the shoe.

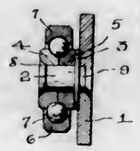
1,782,621. METHOD OF PRODUCING PRODUCTS OF HYDROGENATION OF ALKYLATED PHENOLS. HANS JORDAN, Berlin-Steglitz, Germany, assignor to Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Filed July 12, 1926, Serial No. 122,032, and in Germany July 4, 1925. 4 Claims. (Cl. 260—154.)

1. The method of producing products of hydrogenation of alkylated phenols, comprising subjecting a product of condensation of a ketone and a phenol having the formula



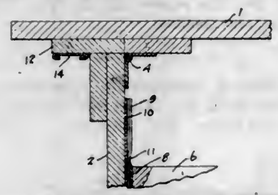
wherein R and R' are alkyl or aryl radicals to treatment at a temperature of at least 170° C. with hydrogen in the presence of a mixed hydrogenation catalyst in such manner that the molecule of the compound is split up at the point where the ketone connects the phenol radicals, and simultaneously hydrogenating the split products further.

1,782,622. ANTIFRICTION ROLLER. FREDERICK K. KILIAN, Syracuse, N. Y. Filed Feb. 19, 1929. Serial No. 341,146. 5 Claims. (Cl. 308—203.)



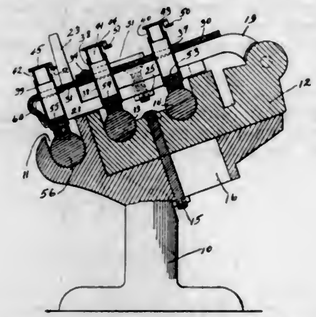
1. A ball bearing roller structure comprising a stud having a collar between its ends, inner and outer raceways, the inner raceway comprising separable sections mounted on the stud on one side of the collar, one section abutting agains tthe collar, and the outer end of the stud being provided with means coacting with the other section to hold the sections together against the collar, balls between the inner and outer raceways, the outer raceway serving as a roller, the portion of the stud on the other side of the collar to that on which the raceways are mounted, serving as a stem to attach the roller to a support with the collar abutting against the support, said collar serving to locate the raceways on the stud and to locate the stud relatively to the support, whereby the outer raceway serving as a roller is accurately positioned relatively to the support.

1,782,623. FOLDING TABLE. CLIFFORD HARROD MCCASLIN, Oakland, Calif. Filed Mar. 19, 1928. Serial No. 262,864. 5 Claims. (Cl. 45—11.)



1. A folding table comprising a top, a pair of legs hinged thereto, guide channels carried by the inner surfaces of said legs, a bracing member and guide strips carried by said member and receivable in said guide channels, an auxiliary guide channel carried by said legs for receiving said guide strips when said legs are swung into closed position.

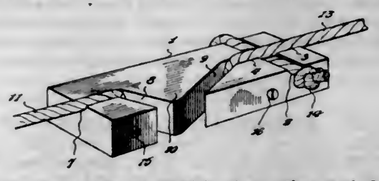
1,782,624. GRAVITY OILING MECHANISM FOR SPINNING FRAMES AND THE LIKE. WILLIAM C. MCGEE, Gastonia, N. C., assignor to Bennett A. Smith, Kings Mountain, N. C. Filed June 27, 1929. Serial No. 374,194. 7 Claims. (Cl. 19—138.)



1. In a lubricating device for roll stands and the like, a plate member adapted to fit on top of the roll stand, said plate member being in two sections and adjustable as to length, a plurality of tubular members mounted in said plate member in a slidable manner, said tubular members being adapted to receive a lubricating material, vegetable plug members mounted in the lower ends of said tubular members and being adapted to press against the bearing portion of the journals mounted in said roll stand.

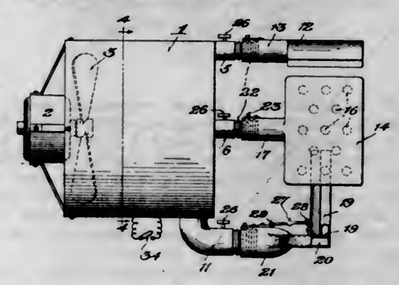
1,782,625. CLOTHESLINE FASTENER. FRANKLIN H. NEUBERGER, Endicott, N. Y., assignor of one-tenth to Edwin James Brand, Jeffersonville, N. Y. Filed June 18, 1929. Serial No. 371,802. 4 Claims. (Cl. 24—129.)

1. A line fastener comprising a block having a slot formed therein, a pulley rotatably mounted in the slot, said block having a longitudinal groove alined with the slot and a transverse groove intersecting the slot and longitudinal groove, and a line terminal passable through



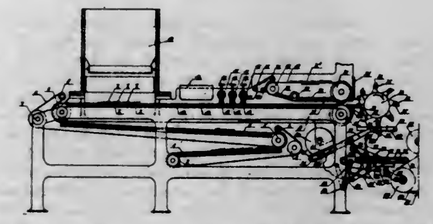
the slot for engagement with the pulley and having stretches thereof engaged in the respective grooves and in contact with each other.

1,782,626. HAIR-DRYING APPARATUS. VINCENT N. NICOSIA, Houston, Tex. Filed Aug. 8, 1930. Serial No. 473,946. 5 Claims. (Cl. 34—26.)



2. In a hair drying apparatus, a casing, means to supply air to the casing, a tubular member connected to the casing and having a vertical outlet, a nozzle slidable on said member and having an inlet at its lower end for registry with the outlet of said member, said nozzle having outlets for directing air horizontally, and means having connection with the nozzle and with the tubular member to adjustably mount the nozzle on said member whereby the nozzle can be moved into and out of registry with the outlet of the member.

1,782,627. CIGAR-MAKING MACHINE. RICHARD CARL JULIUS ADOLF OHMSEN, Dresden, Germany, assignor to Firm Johann Carl Muller, Dresden, Germany. Filed Oct. 17, 1927, Serial No. 226,754, and in Germany Oct. 20, 1926. 33 Claims. (Cl. 131—5.)

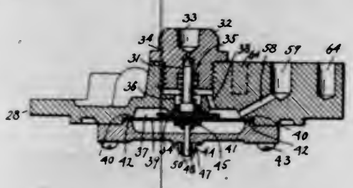


1. The method of manufacturing cigars comprising forming a continuous web of tobacco having upper and lower similar rectangular cut leaves of tobacco overlapping each other in the same direction in each layer and an intermediate layer of filler tobaccos, comprising such web, cutting a strip from the end of said web an amount equal to a filler for a cigar, forming said strip into the shape of a cigar by rolling and pressing and providing said shaped filler with a wrapper in the usual manner.

2. In an apparatus for making cigars comprising means for conveying cut leaves of tobacco in overlapping relation, means for depositing cut tobaco on said cut

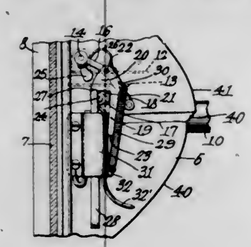
leaves, means for evenly distributing said tobacco, means for compressing said cut tobacco and cut leaves, means for depositing a layer of cut leaves arranged similar to the cut leaves first mentioned on top of said cut tobacco, whereby a web of tobacco is formed, means for compressing the web so formed and means for cutting strips from said web while so compressed to form a filler for a cigar.

1,782,628. REFRIGERATING APPARATUS. OLAF C. OLSEN, Dayton, Ohio, assignor of two-thirds to The Borden Company, Warren, Ohio, a Corporation of Ohio. Filed Aug. 30, 1927. Serial No. 216,392. 3 Claims. (Cl. 62—95.)



3. In a refrigerating system, embodying means for circulating refrigerant, a casing comprising a float chamber for the reception of refrigerant, a float in said chamber, a closure for one end of said chamber, a diaphragm in said closure, an expansion valve mounted upon said closure outside of said diaphragm, and operative connections mounted on said closure for actuating said valve from said float through the intermediacy of said diaphragm.

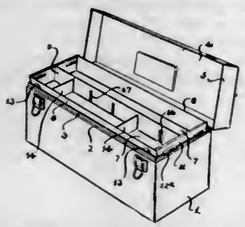
1,782,629. SHIELD FOR MOTOR-VEHICLE HEADLIGHTS. FLOYD N. PAPE, Clinton, Iowa. Filed Jan. 29, 1929. Serial No. 335,820. 2 Claims. (Cl. 240—45.)



1. In combination with a headlight, a dimmer including pivoted blades, shafts extending through the side of the headlight, said blades being mounted on the shafts, an extension forming a part of one of the shafts, pivoted links connecting the blades, an arm connected with the links and having a shoulder at its upper end, a solenoid mounted near the arm, the core of said solenoid adapted to move to engage the shoulder to move the arm and links upwardly to operate the blades, said arm having a shoulder at its lower end to engage the extension to hold the arm and blades in their active positions, and means controlled by the action of the solenoid for moving the arm out of engagement with the extension to release the blades.

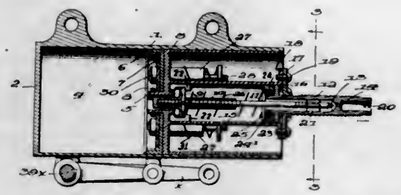
1,782,630. RECEPTACLE PROVIDED WITH TRAYS. SEELY F. PRATT, Rochester, N. Y., assignor, by mesne assignments, to Union Chest and Cabinet Corporation, Rochester, N. Y., a Corporation of New York. Filed Jan. 21, 1928. Serial No. 248,493. 4 Claims. (Cl. 206—16.)

2. In a receptacle, the combination with a bottom member and a hinged closure therefor, of a tray received within the upper portion of the bottom member and having vertical end walls and two opposite side walls diverging upwardly, bosses pressed outwardly from the vertical side walls and cooperating with the side walls of the



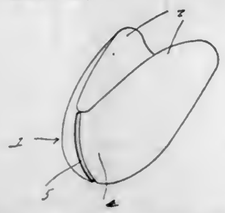
bottom member to prevent the sidewise movement of the tray, and supporting means carried by the vertical end walls of the tray for supporting the tray from the end walls of the bottom member.

1,782,631. SHOCK ABSORBER. FREDERICK R. REIFSNYDER, Pittsburgh, Pa. Filed Nov. 6, 1928. Serial No. 317,565. 10 Claims. (Cl. 188—88.)



10. A shock absorber comprising a cylinder having a compression chamber, a plunger adapted for reciprocation within said chamber and carrying a second compression chamber on its rear face, both chambers being in communication through a port in said plunger, a restricted exhaust port in said second chamber, means controlling the passage of air through both ports, and means for connecting said cylinder to a relatively fixed support and for connecting the plunger to a relatively movable support.

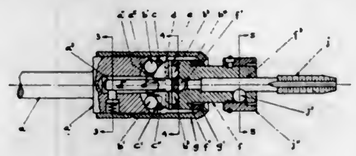
1,782,632. SHOE COUNTER. NELSON J. ROBERT, Lynchburg, Va. Filed Oct. 23, 1929. Serial No. 401,775. 3 Claims. (Cl. 36—68.)



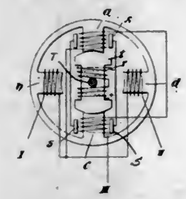
1. A shoe counter of the character described comprising a pair of forwardly extending opposed side portions, an inturned lower portion and a rear connecting portion, all of said portions being formed integral with each other and the rear portion being provided with a vertical groove adapted to receive the quarter seam of the shoe.

1,782,633. FLEXIBLE DRIVING CONNECTION FOR TOOL HOLDERS. BERNARD P. SCHILTZ, Cleveland, Ohio. Filed Apr. 27, 1926. Serial No. 104,902. 3 Claims. (Cl. 279—16.)

1. In a device of the class described, the combination with a driving and an associated driven member, of interposed connecting means comprising members having coacting convex and concave spherical faces adapted freely to turn concentrically upon one another, and interconnecting balls associated therewith for rotatably uniting said members, together with plane-faced connecting members and interconnecting balls permitting offset rotatable movement of the parts, substantially as set forth.

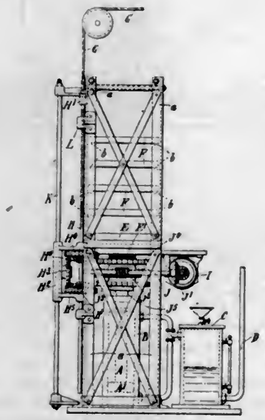


1,782,634. THREE-PHASE ONE-PHASE CONVERTER, ESPECIALLY FOR ELECTRIC RESISTANCE HEATING AND WELDING MACHINES. EDMUND SCHRÖDER, Berlin, Germany. Filed June 13, 1927, Serial No. 198,610, and in Germany July 6, 1925. 5 Claims. (Cl. 172—238.)



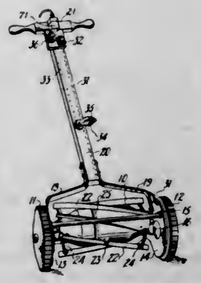
1. In an alternating current converter, the combination with a rotor, a two phase Scott-connected stator primary winding, a secondary stator winding in inductive relation with one phase only of the primary winding, whereby voltage is induced in said secondary winding by the rotor and by transformer actions, the secondary winding being connected to a load circuit.

1,782,635. BOILER AND FURNACE. CECIL WHEATLEY STANCLIFFE, Aldwych, London, England. Filed Apr. 13, 1928, Serial No. 269,859, and in Great Britain Apr. 22, 1927. 10 Claims. (Cl. 236—28.)



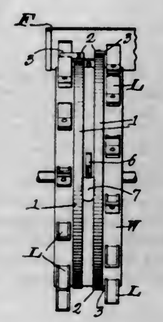
1. Apparatus for controlling boilers and furnaces comprising a plunger subjected to a pressure which is a function of the steam pressure or other controlling quantity, a series of weights at spaced intervals each normally resting against abutments, means for causing said weights successively to resist the movement of said plunger, a power driven shaft, a supplementary shaft having gearing connection with said shaft, means for throwing said connection out of operation when the plunger is stationary, and means for communicating the movement of said supplementary shaft to the fuel control means.

1,782,636. ELECTRICALLY-OPERATED LAWN MOWER. DOUGLAS HENRY STOKES, Cremorne, near Sydney, New South Wales, Australia. Filed Sept. 7, 1927, Serial No. 218,068, and in Australia Sept. 20, 1926. 2 Claims. (Cl. 56—26.)



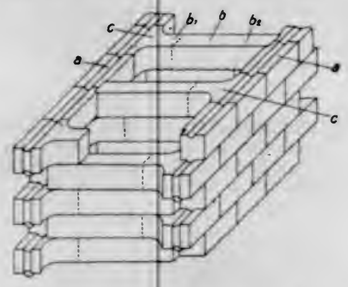
1. A mower comprising a wheeled frame having a shear knife adjustably fixed across the lower part of it and a horizontal shaft fixed across it above said shear knife, a carrier mounted for rotation on said shaft, an electric motor housed within said carrier with its fixed element secured to said shaft and its rotative element geared to said carrier, a plurality of helically twisted cutter blades fixed on said carrier and adapted to coact with said shear knife, a handle pivotally connected to said frame, insulated flexible wires led out from the motor through an end of said shaft and thence to a switch, and means for connecting said wires to a flexible twin cable.

1,782,637. WHEEL-LUG CLEANER. JOHN THIES and FRANK THIES, Hutchinson, Kans. Filed May 24, 1928. Serial No. 280,330. 5 Claims. (Cl. 280—158.)



1. The combination with a tractor wheel having spaced annular series of lugs, of a ring mounted on the wheel between the lugs, the internal diameter of the ring being greater than the external diameter of the wheel, any point on said ring being shiftable radially relative to the wheel, and laterally extending fingers on the ring extending between the lugs.

1,782,638. COKE-OVEN-WALL STRUCTURE. FRITZ TOTZEK, Stoppenberg, near Essen-on-the-Ruhr, Germany. Filed Mar. 29, 1928, Serial No. 265,588, and in Germany Feb. 13, 1926. 3 Claims. (72—102.)



1. A gas or coke oven wall having flues therein, said wall comprising courses of stretcher bricks certain of which have recesses on their inner sides at their meeting ends, said courses being spaced apart and said wall also comprising header bricks connecting said spaced courses, each header brick being of less length than the space between the outer surfaces of the courses having a symmetrical end arranged between the opposing ends of two stretcher bricks and extending to the outer surface thereof and also having a symmetrical opposite end engaged in the said recesses in the inner surface of two stretcher bricks of the opposite course and terminating short of the outer surface of the last named stretcher bricks, the contiguous header bricks of each course being reversely arranged so that one such header brick extends to the outer surface of one course and the next such header brick of the same course extends to the outer surface of the opposite course.

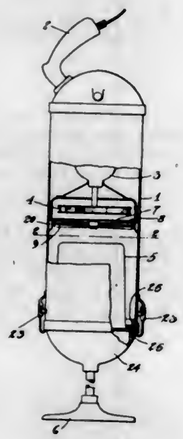
1,782,639. BARBECUING MACHINE. CLIFFORD VAN ALLEN, Canton, Ohio. Filed Nov. 25, 1929. Serial No. 409,727. 1 Claim. (Cl. 53—5.)



The combination in a barbecuing machine, of an annular base provided with an annular supporting surface at its upper end, an annular member provided with a series of equally spaced upwardly and inwardly inclined recesses, said annular member being non-rotatably supported by said supporting surface, a plurality of spits one of which is supported in each of said recesses whereby the spits project upwardly and inwardly toward a common point, a ring shaped member rotatably supported on said annular member, and means on said spits engaging said ring shaped member whereby said spits are rotated when said ring shaped member is rotated.

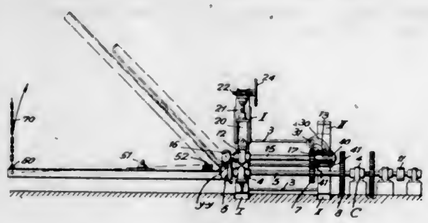
1,782,640. VACUUM CLEANER. AXEL LEONARD WENNER-GREN, Stockholm, Sweden, assignor to Inventia Patent-Verwertungs-Gesellschaft, Schaffhausen, Switzerland, a Corporation of Switzerland. Filed Apr. 9, 1924, Serial No. 705,371, and in Sweden Mar. 15, 1924. Renewed Oct. 26, 1929. 24 Claims. (Cl. 183—74.)

1. A filtering device for vacuum cleaners comprising a plurality of disks each having a central portion and an annular outer portion, a series of wings extending between said central portion and said annular portion forming a series of perforations between them, locking members on the central portions adapted to coact to clamp



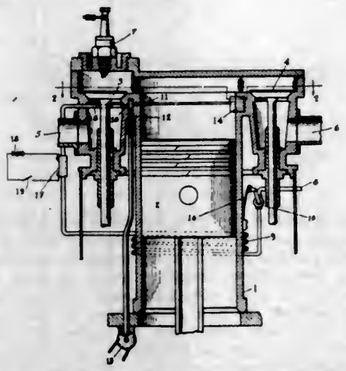
said disks together and flanges on said disk having edges directed toward each other and serving to retain fibrous filtering material between the disks when the disks are clamped together.

1,782,641. MACHINE FOR FLANGING PLATE DISKS. OTTO WILD and LOUIS WILD, Muri, Switzerland. Filed July 30, 1928, Serial No. 296,173, and in Germany June 20, 1928. 4 Claims. (Cl. 153—54.)



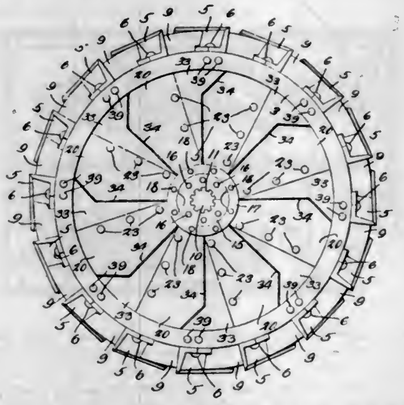
1. In a machine for flanging plate disks, in combination, two flanging rollers adapted to be adjusted in their distance from each other, one of said rollers having the shape of a bulb and a profile corresponding to the inside of the curved portion and of the cylindrical wall of the flange, the opposite roller having the profile of the outside of the cylindrical wall and of one half of the outside of the curved portion of the depending flange, the second mentioned roller consisting of a part which acts in the manner of a driving roller and another part which acts in the manner of an idler, supporting means for rotatably holding the center portion of the plate disk, and means for angularly displacing said supporting means along an arc having its center between said rollers.

1,782,642. INTERNAL-COMBUSTION ENGINE. HUGH WILEY, Los Altos, Calif. Filed Mar. 13, 1928. Serial No. 261,308. 4 Claims. (Cl. 123—25.)



1. An internal combustion engine comprising a cylinder, a piston mounted therein, means for directing water into said cylinder just after the explosion takes place, and prior to the completion of the exploded stroke, and a hot plate disposed in said cylinder for changing the water into steam.

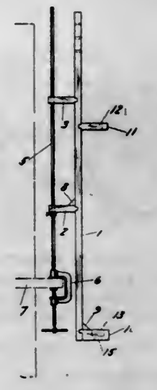
1,782,643. TRACTOR WHEEL. CHARLES H. WILKS, Marche, Ark. Filed Aug. 1, 1928. Serial No. 296,782. 2 Claims. (Cl. 301—5.)



1. A wheel comprising a tread, a hub, a plurality of approximately triangular body-forming members, having extensions, the extension of one body-forming member overlapping the next-adjoining body-forming member, means for securing said extensions to the adjoining aforesaid members to form a conical body, that edge of each body-forming member which is opposite to the extension being provided with a wing extended from one side of the wheel toward the other, the wing being supplied along one edge with a flange extended transversely of the wheel in engagement with the inner surface of the tread, means for securing the wing to the tread, and means for securing the body to the hub.

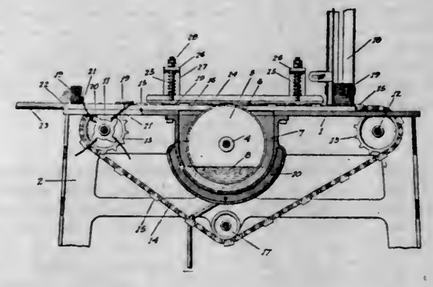
1,782,644. PHYSICS LABORATORY APPARATUS. MILTON B. BRENNEMAN, Davenport, Iowa. Filed Dec. 26, 1929. Serial No. 416,354. 3 Claims. (Cl. 23—292.)

1. A support for laboratory apparatus comprising a flat bar having pairs of brackets or shelves extending from opposite faces thereof, one of said pairs having aligned openings therein for the reception of a supporting rod



and the other pair having aligned openings therein for the reception of tubular apparatus used in performing experiments.

1,782,645. SLAT WAXING AND STACKING MACHINE. OSCAR F. CHICHESTER and JOHN J. SYLVA, Stockton, Calif., assignors to California Cedar Products Company, Stockton, Calif., a Corporation. Filed June 29, 1927. Serial No. 202,270. 6 Claims. (Cl. 91—51.)

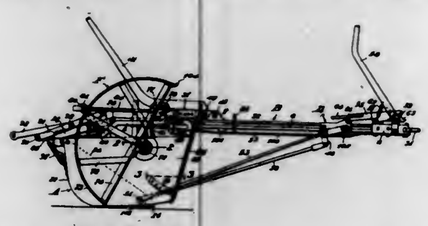


1. A slat waxing and stacking machine including a waxing means, means for conveying the slats successively past the waxing means so that one face of each slat is waxed, horizontal slat conveying means including transversely spaced endless elements and upstanding lugs thereon at intervals to engage the edges of the slats, slat supporting bars extending beyond and disposed parallel to said elements, a rotatable spider member having radial arms, spaced proportionate to the spacing between the conveyor-lugs, disposed between the conveyor elements beyond the waxing means for engaging the under faces of the slats successively, and causing them to be raised on edge and then shifted clear of the conveying means and onto said supporting bars.

1,782,646. GROUND SCRAPER AND LEVELER. JAMES T. COMPTON, Los Angeles, Calif. Filed Apr. 25, 1928, Serial No. 272,741. Renewed Aug. 4, 1930. 10 Claims. (Cl. 37—140.)

1. In a ground working mechanism of the character described, a scraper body, a tongue, a connection between the tongue and the upper portion of the scraper body, a

carriage slidable longitudinally of the tongue, connections between said carriage and the lower forward portion of the scraper body, trip controlled means for releasably holding the carriage in an advanced position on the



tongue, means for limiting retractive movement of the carriage, and means on said scraped body engageable with the ground for automatically effecting advance of said carriage from its retracted to its advanced position.

1,782,647. LOOSE-LEAF BINDER. JAMES C. DAWSON, Webster Groves, Mo., assignor to Elma N. Dawson, Webster Groves, Mo. Filed May 7, 1929. Serial No. 361,132. 1 Claim. (Cl. 129—24.)



In a loose leaf binder, duplicate prong-carrying rods of circular cross-section, each rod having two similar arch bends curved longitudinally, each pair of corresponding arches being in mutual cooperative toggle-joint relation, the crown of one arch of each rod having a recess therein, said recess conforming to the original curves of the crown of the cooperating arch of the other rod and receiving the same in said recess to form the toggle-joint between said arches.

1,782,648. PROCESS OF COLORING SLATE GRANULES. HARRY C. FISHER, Cincinnati, Ohio, assignor, by mesne assignments, to The Philip Carey Manufacturing Company, a Corporation of Ohio. Filed Apr. 29, 1925. Serial No. 26,828. 11 Claims. (Cl. 91—70.)

8. A process for coloring granulated permeable mineral matter which will withstand a roasting treatment which consists in treating the mineral matter with penetrative colloidal metallic compounds, and dehydrating the colloid in the presence of a peptizing agent.

11. A process for coloring granulated slate which consists in wetting the slate with a solution of an alkaline dichromate in the presence of a metallic salt which will react with the dichromate to form a jell and then heating the materials to dehydrate the jell, forming oxides thereof at least in part.

1,782,649. PROCESS FOR FORMING GRAYISH-BLACK SLATE GRANULES. HARRY C. FISHER, Cincinnati, Ohio, assignor, by mesne assignments, to The Philip Carey Manufacturing Company, a Corporation of Ohio. Filed June 20, 1925. Serial No. 38,568. 4 Claims. (Cl. 91—70.)

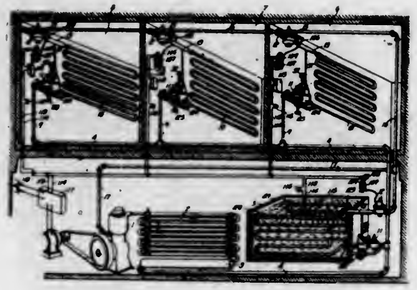
2. That process of coloring granular slate, which consists in wetting it with a solution of alkali dichromate and iron sulphate, and a third compound which will decompose with heat to form a pigment, heating the slate to a degree which will produce a dry product impregnated with the oxides of the dehydrated substances and the decomposed third compound.

1,782,650. DOUBLE HAIR WAVER. ABRAHAM GOODMAN and JACOB GOODMAN, Brooklyn, N. Y. Filed Dec. 26, 1929. Serial No. 416,311. 2 Claims. (Cl. 132—41.)



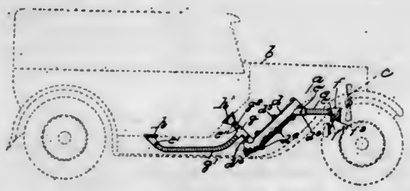
1. An article of the class described comprising a pair of members each of a wire like element bent to form a loop with parallel portions terminating in adjacent coiled ends, a second loop member having parallel portions terminating in coiled ends positioned between the coiled ends of each of the pair of members, a rivet extending through all of said coiled ends for maintaining the same attached as in service and providing a pivot, said members being adapted for relative pivotal movement on said rivet so that end portions of the second member may be moved between the parallel portions of the first members, and cooperative locking portions on said members in engagement with each of said pair of members.

1,782,651. REFRIGERATING SYSTEM. JOHN F. HOFFMAN, Omaha, Nebr., assignor to Baker Ice Machine Co. Inc., Omaha, Nebr., a Corporation of Nebraska. Filed Mar. 7, 1927. Serial No. 173,440. 7 Claims. (Cl. 62—4.)



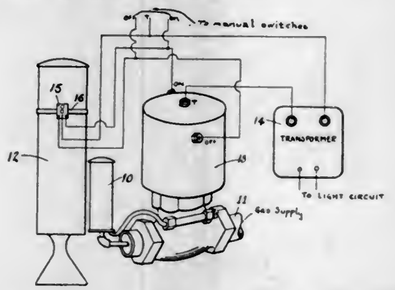
1. In a refrigerating system, a cooling unit, valve mechanism controlling return flow from said unit, thermostatic means controlling said valve mechanism, and an electrical heater controlling said thermostatic means and automatically controlled by temperature of a compartment served by said unit.

1,782,652. HEATER FOR VEHICLES. FRANK C. HOWARD, Chicago, Ill. Filed Oct. 19, 1927. Serial No. 227,076. 4 Claims. (Cl. 257—241.)



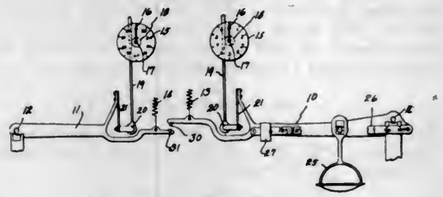
1. In a heater for a vehicle having an internal combustion motor, the combination of a tubular heater member adapted to extend around the exhaust pipe of the motor, an integral helical rib on the inner periphery of said member, to direct air helically around the exhaust pipe, means to hold the member so that, the rib is spaced from the pipe to permit some of the air to pass between the rib and the pipe, means to direct air from the motor fan into one end of said member, and means connected to the other end of the member to convey the heated air into the body of the vehicle.

1,782,653. CONTROL DEVICE FOR HEATING SYSTEMS. GEORGE C. HUNT, Rochester, N. Y., assignor to The Savutime Devices, Inc., Rochester, N. Y., a Corporation of New York. Filed Nov. 4, 1927. Serial No. 231,054. 2 Claims. (Cl. 200—138.)



1. In a device of the class described, a flat casing open at the back, a sheet of insulating material mounted within and in spaced relation to the front of said casing, manually controlled contact springs mounted in the space between said casing and said sheet of insulating material, a thermally controlled spring mounted on the opposite side of said sheet of insulating material, terminals mounted in one side of said casing, and electrical connections between said contact springs, said thermal spring and said terminals.

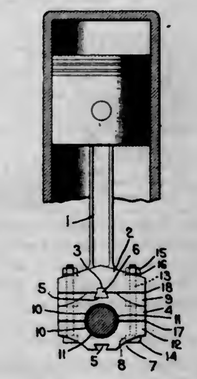
1,782,654. WEIGHING SCALE. LOUIS JAENICHEN, Springfield Township, Oakland County, Mich., assignor to The Standard Computing Scale Company, a Corporation of Michigan. Filed Nov. 27, 1928. Serial No. 322,261. 4 Claims. (Cl. 265—69.)



1. In a scale, a pair of levers, one of which is provided with a load receiver and a sensitive load resisting element and the other of which is provided with a load resisting element adapted to resist heavier loads than the first, said first lever adapted to act independently to weight small loads and adapted to act upon said second lever as a load thereon when the loading in the load receiver exceeds a predetermined amount.

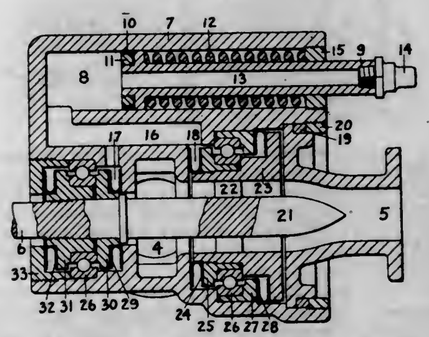
1,782,655. PITMAN OR CONNECTING-ROD CONSTRUCTION. PETER JAMESON, West Quincy, Mass. Filed Feb. 29, 1928. Serial No. 257,842. 4 Claims. (Cl. 74—47.)

1. A pitman, for connecting the piston to the crank shaft of an internal combustion engine and the like, comprising an enlarged head having a flat face, complementary bearing blocks of like construction and interchangeable, each having a central flat face adapted to engage the central portion of the flat face of the head and provided with recesses extending from said central



portion to the ends of said bearing sections, a shim or shims interposed between the bearing block and the head, filler blocks in said recesses, a shim or shims interposed between said bearing blocks, and means clamping said bearing blocks together and to said head.

1,782,656. PACKING. BRYAN P. JOYCE, Davenport, Iowa. Filed Sept. 23, 1927. Serial No. 221,549. 5 Claims. (Cl. 103—112.)

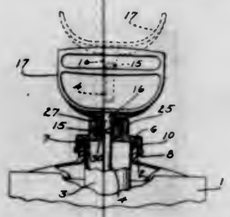


1. A packing between relatively movable parts of a pressure fluid machine, said packing comprising a chamber formed between said parts by metal packing rings and full of fluid under greater pressure than the machine fluid, a bearing within said chamber, means securing the bearing in position within the chamber and between the machine parts, and one of the machine parts exposing a greater aren to the pressure of the packing fluid in one direction than in the opposite direction, to relieve said bearing of load when the machine is in operation.

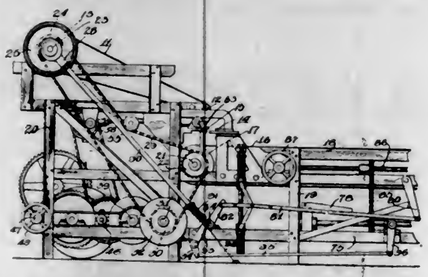
1,782,657. PRESSURE TANK CAP. ANTON W. KEGLER, Minneapolis, Minn., assignor to Hudson Manufacturing Co., Minneapolis, Minn., a Corporation of Minnesota. Filed Apr. 13, 1927. Serial No. 183,461. 3 Claims. (Cl. 221—77.)

3. A device of the class described comprising a tank having a filling extension in its top, a cylinder passing

loosely through the extension and having a tap flange engaging the extension as a stop, and a cap detachably secured to the extension and acting to clamp the flange against the extension said cap having a slot and further having a pocket angularly related to the slot, said cylinder having a piston rod traversing the slot and having lugs adapted to pass through the slot when in one angular position, and adapted when disposed in another angular position to enter the pocket after a partial withdrawal of the rod during a lifting action.

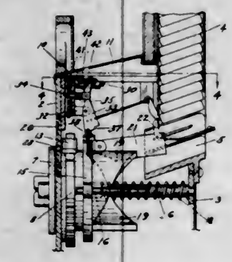


1,782,658. TUBE-STOCK FEEDING, MEASURING, AND CUTTING MACHINE. ARNOLD R. KRAUSE and ALFRED C. HIRSCH, Eau Claire, Wis., assignors to Gillette Rubber Company, Eau Claire, Wis., a Corporation of Wisconsin. Filed June 22, 1927. Serial No. 200,563. 14 Claims. (Cl. 164—48.)



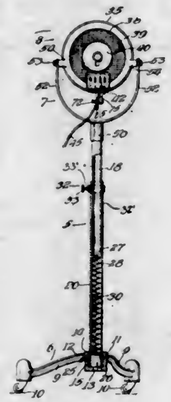
1. A stock measuring, cutting and conveying mechanism comprising measuring and receiving conveyors, a cut off mechanism interposed between said conveyors, and intermittent driving mechanisms therefor including a reciprocating rack, and means associated with said rack adapted to control the operation of said intermitten driving mechanisms.

1,782,659. COIN-OPERATED VENDING MACHINE. CHARLES F. KURTZ, Rock Island, Ill., assignor, by mesne assignments, to L. J. Shields, St. Paul, Minn. Filed Oct. 21, 1929. Serial No. 401,170. 8 Claims. (Cl. 194—97.)



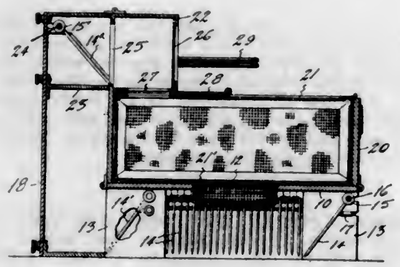
1. A vending machine, comprising a casing provided with a coin entrance, a coin handling mechanism in said casing having a coin receiving space in line with said entrance, means for arresting a coin in its movement from the entrance to said receiving space, means for engagement with a spurious coin while arrested, and means for operation of said last-named means coincidently with the operation of said coin handling mechanism.

1,782,660. STAND AND MOUNTING. WILLIAM MEYER, Chicago, Ill. Filed Dec. 26, 1925. Serial No. 77,888. 1 Claim. (Cl. 248—41.)



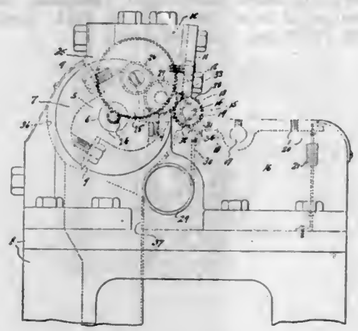
In combination, a socketed base, an upright stand comprising a pair of telescoping members, one extending from the other to increase the height of the stand beyond the length of either member, one telescoping member being mounted in the socketed base, a device mounted on the other telescoping member, a coiled spring confined in the telescoping member mounted in the base and acting in compression on the device carrying member, said members having a great vertical adjustment relative their diameters and being tubular and with their interiors in communication to permit a tight fit between said members without interfering with the relative movement therebetween, the lower telescoping member having its upper end slit longitudinally, and means comprising a ring member surrounding the slit end of said lower telescoping member and a thumb screw carried by said ring and cooperable with said slit end for locking the device supporting member against movement relative to the member mounted in the base, said spring acting only upon release of said locking means to hold the weight of the device and facilitate vertical adjustment of said carrying member.

1,782,661. ANIMAL TRAP. PENELTON G. MIDGETT, Dallas, Tex. Filed Aug. 17, 1928. Serial No. 300,233. 7 Claims. (Cl. 43—66.)



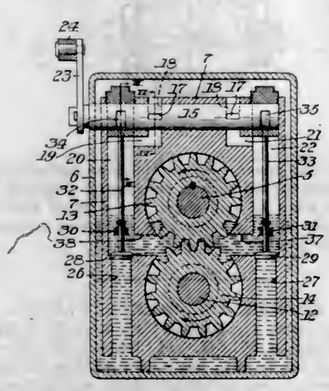
1. In an animal trap, an elevated platform, a bait basket depending from the platform, gates having points at their lower ends hinged under the platform, an outlet from under the platform, a gate closing said outlet, and a trap cage removably supported upon the top of the platform and having an opening and closure connected with the outlet.

1,782,662. PELT-DEHAIRING MACHINE. ROBERT H. PLASS, Montclair, N. J., assignor to The Chapal Donner Corporation, Newark, N. J., a Corporation of New Jersey. Filed Jan. 8, 1930. Serial No. 419,227. 3 Claims. (Cl. 19—2.)



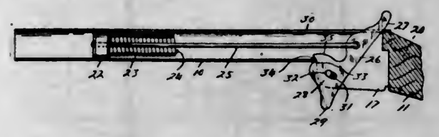
1. In a machine of the kind described, a cutting mechanism, a rotatable pelt feed roller in front of said cutting mechanism, a series of independently yieldable pelt supporting fingers arranged side by side in substantially horizontal plane and having guide portions opposed to said feed-roller and extending to the cutting mechanism, and an air suction conveyer means having an intake mouth coextensive with and adjacent to cutting point of the machine so as to receive and carry away hair or fur filaments severed from a pelt, said guide portion being of less width than the main bodies of said fingers to provide openings therebetween giving access to said conveyer means intake mouth.

1,782,663. HYDRAULIC BRAKING APPARATUS. WILLIAM G. PRICE, Yakima, Wash.; Mary Kelley Price executrix of said William G. Price, deceased. Original application filed Feb. 26, 1927, Serial No. 171,187. Divided and this application filed Oct. 7, 1927. Serial No. 224,601. 5 Claims. (Cl. 188—92.)



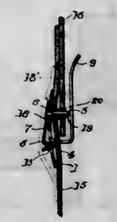
1. Hydraulic braking apparatus, comprising a liquid reservoir, a pump casing having two oppositely disposed ports, a liquid duct adjacent to each port and extending to a point below the liquid level, a check valve for each duct, a conduit extending from the outer end of each of said ports, pumping mechanism within the casing for effecting a flow of liquid through said ports, means for controlling flow through said conduits, and means actuated by the last-named means for controlling movement of the check valves.

1,782,664. AIR GUN. ERNEST S. ROE, Plymouth, Mich., assignor to The King Manufacturing Company, Plymouth, Mich., a Corporation of Michigan. Filed Mar. 21, 1927. Serial No. 177,081. 9 Claims. (Cl. 124—10.)



1. In an air gun, the combination with a barrel and a plunger and spring therein, of an element constituting a spring compressing lever and trigger, means for loosely pivotally mounting said element and a notch in said element engageable with the barrel for holding the parts in cocked position.

1,782,665. CLASP FOR POCKETBOOKS AND THE LIKE. ALBERT ROSENBAND, Newark, N. J., assignor to The Rosenband Manufacturing Co., Newark, N. J., a Corporation of New Jersey. Filed Nov. 6, 1928. Serial No. 317,576. 3 Claims. (Cl. 24—210.)

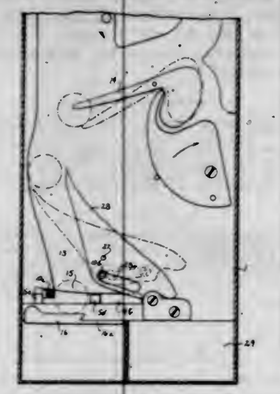


1. In combination, in a pocketbook clasp, a back plate arranged to be positioned within a pocketbook, said back plate having an opening rearwardly of an opening in the body portion of the pocketbook, and aligned loops formed one on each side of said back plate opening; a front plate arranged to be positioned exteriorly of a pocketbook and having an offset tongue extending through the pocketbook opening and through said opening in the back plate, the front plate having a pair of aligned, laterally extending ears, each engaging in a respective one of said loops and forming therewithin a pivotal connection; said tongue being extended in an eccentric lug extending backwardly from said loops; and a stud riveted to said back plate and extending from the front face thereof through a conforming aperture in the body portion of the pocketbook toward said front plate for engagement in an eyelet provided in the flap of the pocketbook; and a flat pressure spring mounted on said riveted stud rearwardly of said back plate and extending into pressure applying contact with said eccentric lug, said pressure spring overlying said back plate opening and being turnably mounted on said stud, whereby said spring may be turned from said opening for inserting or removing off-set tongue.

1,782,666. MONEY CHANGER. ALBERT S. ROSS, Dallas, Tex. Filed Aug. 6, 1928. Serial No. 297,786. 1 Claim. (Cl. 194—1.)

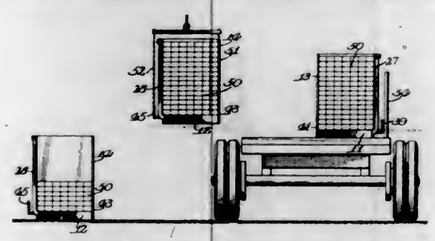
A money changer having a coin passageway, a gate for said passageway, a manually movable coin actuator oper-

atively connected to said gate, a change coin magazine, a lever pivoted adjacent said magazine and extending into said magazine to be supported in an inactive position by



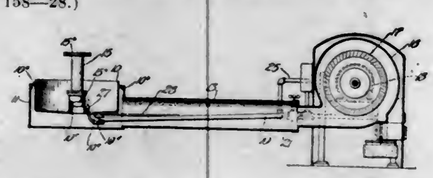
the coins therein, said lever moving into an active position to lock said actuator to hold said gate closed when the number of coins in said magazine is insufficient to make change.

1,782,667. TRUCK-LOAD SECTIONS OR TRAYS. LESTER W. SHELHAMER, Oak Park, Ill. Filed Dec. 19, 1928. Serial No. 326,991. 6 Claims. (Cl. 296—1.)



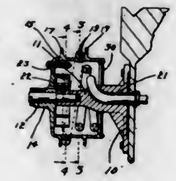
1. A material handling device comprising a pair of independently movable truck load sections each of which is constructed with a bottom wall, one end wall and one side wall, so that each section will support an independent load, said sections being arranged side by side and having open sides disposed adjacent to each other, so that the sections provide a single material containing enclosure open at one end, the end walls of said sections being in approximate alignment, so that the loads carried by the sections may be simultaneously discharged through the said open end by tilting said sections.

1,782,668. OIL BURNER. WILLIAM W. STUART, Des Moines, Iowa, assignor to Franklin Oil Heating Incorporated, Columbus, Ohio, a Corporation of Ohio. Filed Sept. 21, 1929. Serial No. 394,281. 4 Claims. (Cl. 158—28.)



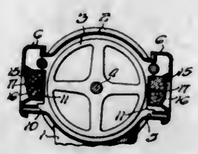
1. Apparatus of the class described comprising a pot, means to supply oil thereto comprising a duct, a valve therefor, air supply means communicating with said pot and including a fan, a motor actuating said fan, means connecting said air supply means and said oil duct at a point between the discharge end of the latter and said valve, and means to continue said motor in operation for a desired period of time after the closure of said valve, whereby oil in said duct between said valve and said pot will be discharged into said pot.

1,782,669. GRINDING MACHINERY. ALBERT TURNER, Cincinnati, Ohio, assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 24, 1924. Serial No. 745,673. 6 Claims. (Cl. 242—107.)



6. In the device of the class described the combination of a hollow drum mounted for rotation, a support therefor having an opening therein, a lead wire extending through the opening into the interior of the drum where it is coiled, then passing to the exterior of the drum where it is again coiled, and resilient means for rotating the drum in one direction to recoil the lead wire after it has been uncoiled.

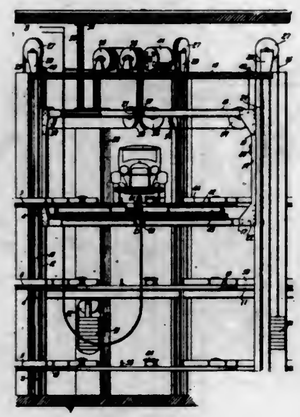
1,782,670. INDICATING MEANS FOR WEIGHING APPARATUS. ADRIANUS VAN DUYN, Rotterdam, Netherlands, assignor to Naamlooze Vennootschap Maatschappij tot Veraardiging van Snijmachines Volgens van Berkel's Patent en van Andere Werktingen, Rotterdam, Netherlands, a Limited-Liability Company of the Netherlands. Filed Jan. 15, 1930, Serial No. 420,843, and in Great Britain Jan. 19, 1929. 9 Claims. (Cl. 116—129.)



1. A weighing apparatus comprising an indicating chart and a transparent member of substantial thickness being arranged in front of said chart, one edge of said transparent member itself serving as a datum or reading line for the indications on said chart.

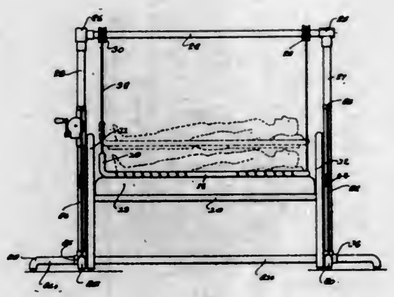
1,782,671. STORAGE AND PARKING GARAGE. WILLIAM P. ALLRED, Jr., Kansas City, Mo. Filed May 13, 1929. Serial No. 362,647. 14 Claims. (Cl. 187—1.)

9. In combination with floors of a building having registering circular openings constituting an elevator shaft and having aligning radial openings leading from the circular openings, vertical rails in said radial openings constituting stationary guide and thrust receiving members, an elevator movable in said shaft, including a frame having radial arms projected for travel in the radial



floor openings in guiding and thrust relation with said vertical rails, and a circular platform rotatably mounted on the frame.

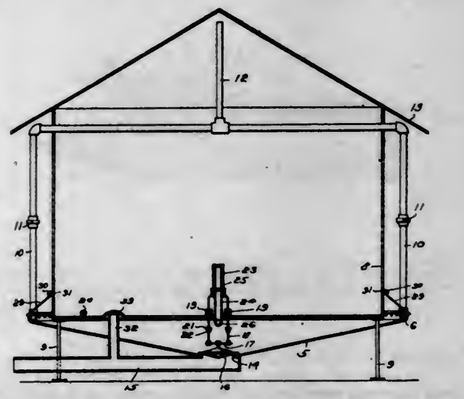
1,782,672. APPLIANCE FOR INVALIDS. ROBERT A. AUSTIN, Chicago, Ill. Filed Apr. 5, 1928. Serial No. 267,550. 1 Claim. (Cl. 5—89.)



In an invalid's appliance, an auxiliary bed frame adapted to rest upon a bed, said frame having head, foot and side members, said foot member being offset upwardly above the plane of the remaining bed members to afford clearance for the feet of the patient, and supporting means for the invalid disposed below the plane of the foot member and in the plane of the head and side members.

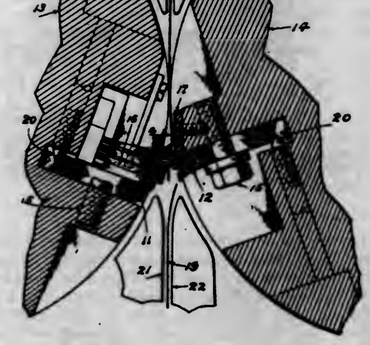
1,782,673. DRINKING FOUNTAIN FOR POULTRY OR SMALL ANIMALS. SHERMAN BARTHOLOMEW, Guerneville, Calif., assignor of one-half to Harry Harris, Rionide, Calif. Filed Nov. 7, 1928. Serial No. 317,721. 10 Claims. (Cl. 119—77.)

1. A device of the character described comprising a tank and a pan, a drain outlet from the pan, a drain valve controlling said outlet, a water supply pipe and a water pressure operated valve operated by the water from said



pipe, which controls said drain valve and the passage of water to said tank and an overflow pipe having its mouth disposed in said tank and discharging into said pan.

1,782,674. WEB-CUTTING MECHANISM. AUGUST BAUMGARTNER, Hollis, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a Corporation of New York. Filed June 30, 1928. Serial No. 289,562. 3 Claims. (Cl. 164—66.)

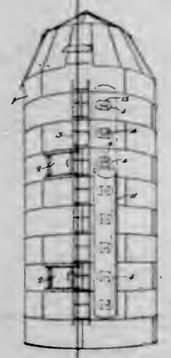


1. In a mechanism for cutting a web into sheets, a rotary cutting device, comprising a cutting cylinder carrying a leading knife and a cutting cylinder carrying a trailing knife, which cutting cylinders co-act to cut the web, sheet guides, means to disengage the end of the web from the leading knife, and a projecting member associated with the trailing knife having openings arranged to pass the sheet guides, said projecting member being adapted to disengage the end of the web from the trailing knife and direct it between the sheet guides.

1,782,675. SILO. WILLIAM D. BAYLEY, Springfield, Ohio. Filed May 28, 1928. Serial No. 281,040. 18 Claims. (Cl. 189—3.)

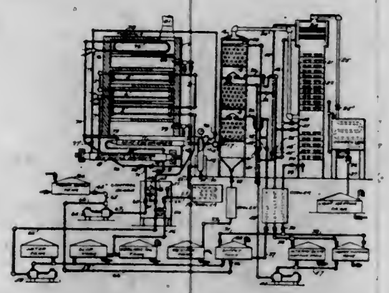
1. A silo structure having an access door, and having an ensilage discharge opening independent of said door,

a hopper located interiorly of the silo coincident with said discharge opening and directing ensilage therethrough



and a chute exteriorly of the silo with which said discharge opening communicates, said chute being removed from said access door.

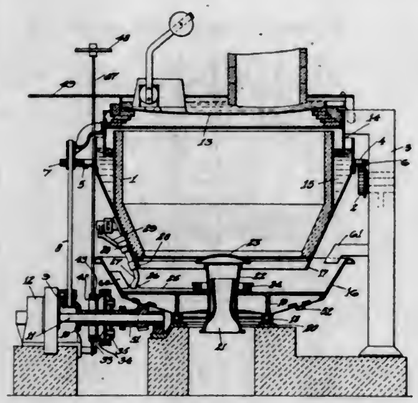
1,782,676. METHOD OF CRACKING AND PROCESSING PETROLEUM HYDROCARBONS. JOHN C. BLACK, Wilmington, Calif., assignor, by mesne assignments, to Gasoline Products Company, Inc., Wilmington, Del., a Corporation of Delaware. Filed May 17, 1924, Serial No. 714,070. Renewed Apr. 17, 1930. 7 Claims. (Cl. 196—58.)



1. The process of cracking hydrocarbons in substantially the liquid phase comprising heating a primary supply of hydrocarbons in a heating furnace to a degree sufficient to crack them, then discharging them into a carbon precipitating and reaction chamber and maintaining throughout the cracking system a pressure sufficient to prevent material vaporization of the hydrocarbons, and simultaneously heating in a tubular heating element a secondary supply of hydrocarbons in the terminal combustion spaces of the primary heating furnace and maintaining thereon, to the point of pressure release and discharge, sufficient pressure to prevent material vaporization thereof.

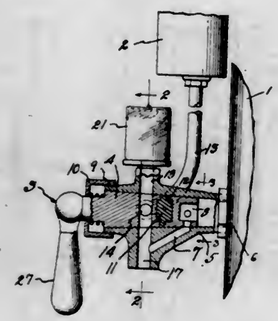
1,782,677. GAS PRODUCER. ANSON K. BRADLEY, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a Corporation of Massachusetts. Filed June 7, 1928. Serial No. 283,562. 3 Claims. (Cl. 48—85.1.)

1. In a gas producer, a rotary fuel shell and a rotary ash pan, a common actuating means for said parts, gearing connecting said actuating means to said shell, for rotation of the latter at a constant speed, differential gearing connecting said actuating means to said pan, means for braking one of the members of said gearing, to vary the speed of the pan-driving member of said gearing, thereby to procure rotation of said pan at varying speeds,



higher than the speed of said shell, an ash plow rotatably mounted in said pan, and means operable selectively to connect said ash plow to, or to disconnect it from, said shell.

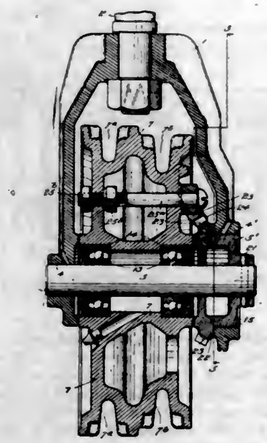
1,782,678. METHOD AND APPARATUS FOR DISPENSING LIQUIDS. EK GILBERT BRONSON, Detroit, Mich., and JOSEPH W. RUSSELL, East Orange, N. J., assignors to Automatic Coffee Creamer Incorporation, Detroit, Mich., a Corporation of Michigan. Filed Dec. 24, 1927. Serial No. 242,384. 2 Claims. (Cl. 225—26.)



1. Apparatus for dispensing a plurality of liquids, comprising a single valve plug, separate chambers in said valve plug for receiving and dispensing two different kinds of liquid, and insulating means forming a part of said plug for separating said two separate receiving chambers.

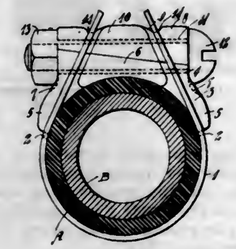
1,782,679. HOIST. ARTHUR H. CHAPPELKA, Lakeline, Ohio. Filed Dec. 21, 1928. Serial No. 327,676. 10 Claims. (Cl. 254—169.)

3. In a hoist, the combination of a support having spaced arms formed with bearing openings, one being relatively large, a shaft having fixed to it at one end a collar rotatably fitting said relatively large opening in one of said arms and rotatably mounted at its opposite end in the opening in the other arm, a rotatable element adapted to be engaged by a flexible member, anti-friction bearings for rotatably supporting said element on said shaft, and means between said element and said collar for locking



them together when a force is applied to rotate said element in one direction, said locking means being ineffective when said element rotates in the opposite direction.

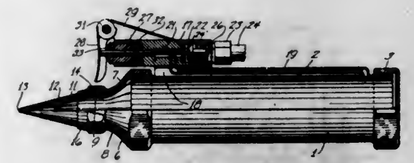
1,782,680. HOSE OR PIPE CLAMP. ALPHEUS FAY and JOHN L. ZEHNDER, Louisville, Ky. Filed Oct. 24, 1927. Serial No. 228,418. 13 Claims. (Cl. 24—19.)



1. In a hose or pipe clamp, a loop member to extend around the hose or pipe, having engaging means near its ends at one side of the hose or pipe, threaded means, and wedging members wedged between said engaging means and the hose or pipe by operation of said threaded means.

1,782,681. FEED GUN. LEONARD R. FOSS and RUBY FOSS, Oakland, Calif. Filed Jan. 12, 1927. Serial No. 160,760. 8 Claims. (Cl. 91—62.6.)

3. A writing instrument for heavy liquids comprising a tubular container having a conical feed point at one end thereof, a closure for the opposite end thereof, said feed point being provided with a restricted aperture at the end thereof, a control valve attached to said tubular member adjacent said conical feed point, a pneumatic pressure supply for said control valve, a tube for transmitting said pneumatic pressure from said control valve to said tubular container adjacent said closure, and means for

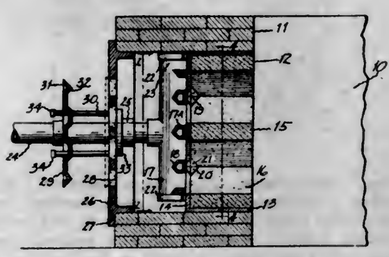


operating said control valve by one of the fingers of the operator when said device is held in the hand as a writing instrument.

1,782,682. DISAZO DYE CONTAINING A DIPHENYLUREA NUCLEUS. LEON W. GELLER, Hamburg, N. Y., assignor to National Aniline & Chemical Co. Inc., New York, N. Y., a Corporation of New York. Filed Apr. 28, 1924. Serial No. 709,684. 13 Claims. (Cl. 260—85.)

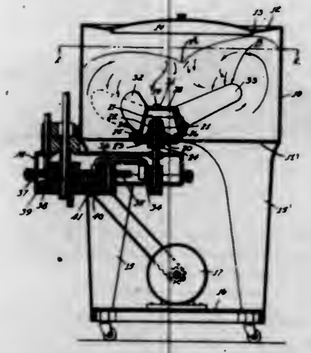
1. As a new disazo dyestuff, the product consisting of a mixture of the one asymmetrical and the two symmetrical disazo compounds containing a diphenylurea nucleus obtained by subjecting a mixture of 4-hydroxy-4'-aminoazobenzene-5-carboxylic acid and 2.2'-dimethyl-5-alkoxy-4-aminoazobenzene-5'-sulfonic acid in the presence of sodium carbonate to the action of phosgene, said dyestuffs, in the dried and pulverized state and in the shape of their sodium salt, being reddish brown powders soluble in water with a yellow color and soluble in concentrated sulfuric acid with a yellow red color; yielding upon reduction with stannous chloride and hydrochloric acid, 2-hydroxy-5-amino-benzoic acid, 4-methyl-3-amino-benzene sulfonic acid, and 4.4'-diaminodiphenylurea bodies which upon hydrolysis decompose into amino bodies of the benzene series and carbonic acid; and dyeing unmordanted cotton reddish yellow to greenish yellow shades which are capable of being discharged to a white with discharging agents.

1,782,683. GAS BURNER. JOSEPH L. GIACOMINO, New Orleans, La., assignor of one hundred per cent to Carl W. Gibson, Parish of Orleans, La. Filed Nov. 22, 1928. Serial No. 321,120. 8 Claims. (Cl. 158—99.)



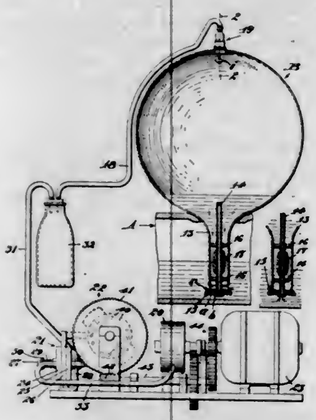
1. In a gas burner, a refractory baffle formed with a plurality of angular ports, a burner head having lateral branches provided with gas discharge means located substantially centrally within the ports and having angularly disposed orificed faces to project a gas jet into contact with the walls of said ports, and means for supplying air to said discharge means.

1,782,684. WASHING MACHINE. GEORGE M. GIBSON, Pella, Iowa, assignor to Woodrow Washing Machine Company, Pella, Iowa, a Corporation of Iowa. Filed Aug. 6, 1928. Serial No. 297,825. 13 Claims. (Cl. 259—101.)



1. A washing machine comprising a tub, an agitator adapted to oscillate above a vertical axis mounted eccentrically within said tub, said agitator comprising a hub portion having radial upright blades, one of said blades being longer than the others, and means for imparting oscillatory rotary movement to said agitator.

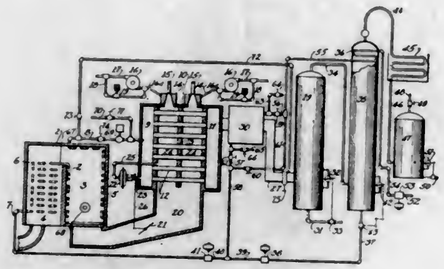
1,782,685. BEVERAGE-DISPLAY FOUNTAIN. HERBERT L. GLAZE, South Pasadena, and FORREST G. STANFORD, Los Angeles, Calif.; said Glaze assignor to George H. Hyland, Los Angeles, Calif. Filed Dec. 3, 1927. Serial No. 237,415. 14 Claims. (Cl. 40—126.)



1. In a liquid display apparatus, a reservoir, a display container in communication with said reservoir, means for delivering liquid from said reservoir to said container by suction induced in the latter, and automatic means for controlling the intake of liquid to the container operable to effect discharge of liquid therefrom.

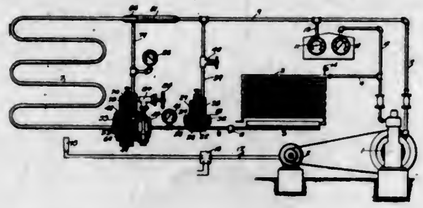
1,782,686. PROCESS FOR CRACKING HYDROCARBON OIL. JOSEPH G. HAWTHORNE, Kansas City, Mo., assignor to Walter Martin Cross. Filed July 9, 1927. Serial No. 204,599. 5 Claims. (Cl. 196—60.)

1. A method of cracking hydrocarbon material which consists in raising the oil to a conversion and vaporizing temperature in a primary heating zone, reheating and superheating the vaporized products under reduced pressure in conduits in a separate zone, cooling the vapors to a predetermined temperature selected to effect separation of the heavier liquid and lighter vapor constituents in a separating stage, subjecting the vapor constituents to



a reflux condensing action, finally condensing vapors not condensed during said reflux condensing step and diverting the heavier liquid divided out in the separating stage from the system, maintaining a balanced pressure between the hydrocarbon vapors within the conduits in the superheating zone and the combustion gases in the enclosure surrounding said conduits.

1,782,687. REFRIGERATING APPARATUS. JOHN F. HOFFMAN, Omaha, Nebr., assignor to Baker Ice Machine Co. Inc., Omaha, Nebr., a Corporation of Nebraska. Filed Aug. 1, 1927. Serial No. 209,690. 4 Claims. (Cl. 62—115.)

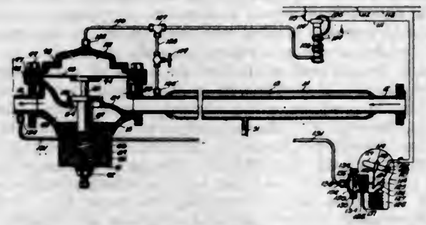


1. Refrigerating apparatus, including a compressor, a cooling coil, supply and return lines connecting the compressor with the coil, and synchronizing means including separate valves in the supply line, respectively responsive to temperature and pressure in the return line controlling flow through the supply line.

4. Refrigerating apparatus including a compressor, a cooling coil, a valve housing having separate chambers, one communicating with the return line, the other having a valve seat and communicating with the compressor and coil at opposite sides of said seat, a diaphragm separating said chambers and cooperative with said seat to close the line of communication from the compressor to the coil, and a spring yieldingly urging the diaphragm to said seat, the diaphragm being responsive to change in pressure in the chamber communicating with the return line to open and close the valve.

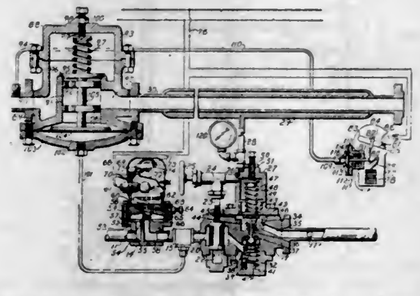
1,782,688. REFRIGERATING SYSTEM. JOHN F. HOFFMAN, Omaha, Nebr., assignor to Baker Ice Machine Co. Inc., Omaha, Nebr., a Corporation of Nebraska. Filed Aug. 1, 1927. Serial No. 209,691. 12 Claims. (Cl. 62—3.)

1. In a refrigerating system, a plurality of independent cooling units, each adapted for serving a separate compartment, single supply and return lines having branches to said units, means controlling flow of refrigerant through



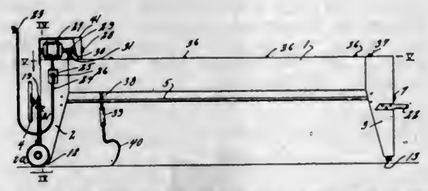
the units, including thermostats respectively operable at different temperatures, and means responsive to pressure in the return line controlling some of said thermostats.

1,782,689. REFRIGERATING APPARATUS. JOHN F. HOFFMAN, Omaha, Nebr., assignor to Baker Ice Machine Co. Inc., Omaha, Nebr., a Corporation of Nebraska. Filed Apr. 16, 1928. Serial No. 270,252. 11 Claims. (Cl. 62—3.)



1. In a refrigerating system including a plurality of coils, a supply line, and a return line, an inlet valve and an outlet valve serving each coil, and means operable by pressure in the supply end of the coil controlling the outlet valve.

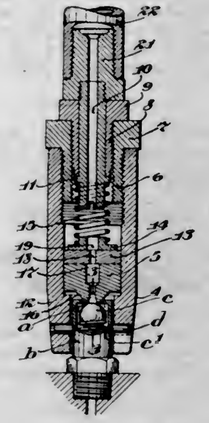
1,782,690. AGRICULTURAL TOOL. FRANKLIN H. KERR, Toledo, Ohio. Filed Apr. 28, 1927. Serial No. 187,210. 8 Claims. (Cl. 97—46.)



1. A pair of supports, a connecting frame therebetween, a tool depending from the frame, and means for traversing the tool between the supports including an endless belt and vertical axis wheels for the belt.

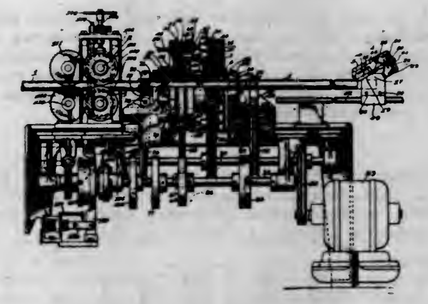
1,782,691. GREASE-GUN COUPLING HEAD. STEVEN J. KRANNAK, Minneapolis, Minn. Filed Aug. 3, 1929. Serial No. 383,262. 1 Claim. (Cl. 285—176.)

A coupling head for grease delivery systems comprising a cylindrical casing having means for interlocking engagement with a receiving nipple equipped with outstanding lugs, a plunger-acting nozzle working in said casing and provided with a substantially conical axially perforated seating surface adapted to enter the receiving port of the grease-receiving nipple, a centrally perforated pliable gasket seated against the inner face of said nozzle and forming a tight joint with the bore of said casing, a sleeve structure applied in the receiving end of said casing, a



grease delivery tube swiveled in said sleeve structure and having an annular shoulder forming a tight joint therewith, and a spring applied to the inner end of said grease delivery tube and reacting against and pressing said nozzle yieldingly outward.

1,782,692. CUTTING MACHINE. JOHN F. LAWSON, Brooklyn, N. Y., assignor, by mesne assignments, to Steel and Tubes, Inc., a Corporation of Ohio. Filed June 13, 1927. Serial No. 198,570. 25 Claims. (Cl. 82—20.)



1. In machine of the kind indicated, the combination of a cutting tool, a cam shaft to direct the operations of the machine, constantly operating power means for driving the cam shaft and also for driving the cutting tool to make the cut, and means to couple the cam shaft to said power means to initiate the cutting of the work and disconnect the cam shaft from the power means at the completion of each cut.

21. In a machine of the kind indicated, a rotating cutter head, a tool thereon movable toward and from the axis of rotation of the cutter head, means to move the tool on the head to make the cuts while the head is rotating, two work clamps close to the tool, one at each side of the tool, means for feeding the work to cutting position, and a control element to direct the action of the tool-moving means, and to direct the action of the clamps and the feeding of the work by said feeding means.

1,782,693. SULPHUR AND RESIN COMPOUND. STUART P. MILLER, Philadelphia, Pa., assignor to The Barrett Company, a Corporation of New Jersey. Filed Dec. 2, 1924. Serial No. 753,476. 7 Claims. (Cl. 106—23.)

1. A composition of matter for compounding rubber which comprises paracoumaron resin having a melting point between 78° C. and 95° C. and sulphur.

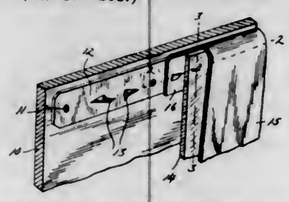
4. The process of rubber compounding which comprises melting paracoumaron resin adding sulphur thereto and mixing the resulting solution with rubber.

1,782,694. KEYBOARD CAM ROLL. ANTON H. NARROW, Memphis, Tenn. Filed July 19, 1929. Serial No. 379,448. 4 Claims. (Cl. 199—25.)



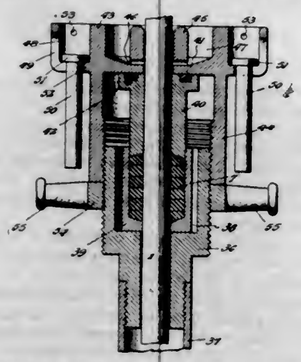
1. In a type-setting machine, a series of cams, a keyboard camroll cooperating therewith, said camroll comprising a non-circular shaft, and a series of rings of non-metallic material fitting on said shaft and located to contact with said cams.

1,782,695. FASTENER FOR TRIMMING MATERIAL. ROBERT M. PREZ, Lansing, Mich., assignor to Reo Motor Car Company, Lansing, Mich., a Corporation of Michigan. Filed Feb. 28, 1927. Serial No. 171,708. 10 Claims. (Cl. 45—138.)



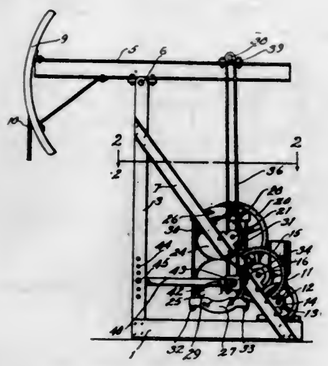
7. In a fastener of the class described, a trimming panel comprising a backing and trimming material covering the same and a fastener supported adjacent to the backing and provided with means adapted to pass through and clinch the trimming material upon the forceful engagement of the panel and fastener.

1,782,696. STUFFING BOX. WILLIAM H. PUCKETT, Tulsa, Okla., assignor to Peerless Supply Company, Tulsa, Okla., a Corporation of Oklahoma. Filed Jan. 26, 1927. Serial No. 163,827. 1 Claim. (Cl. 286—16.)



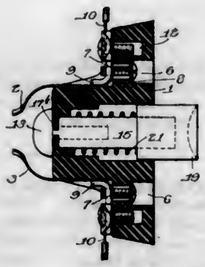
In a stuffing box for polish rods, a box having a chamber in its upper portion and a depending screw threaded portion for mounting the box upon a support, a sleeve adjustably threaded upon the exterior of the box and formed with a transverse head having an enlarged axial bore with a surrounding hub and radial oil passages therethrough, a single packing retainer mounted in the chamber and being of less diameter than the chamber so as to permit free lateral sliding of the head of the retainer upon the base of the chamber, a plurality of packing rings within the retainer, and an elongated gland of less transverse diameter than the box and mounted in contact with the rod throughout its length for lateral movement therewith, said gland extending from the packing rings within the retainer to the head and being provided at said head with a packing slidably engaging the inner face of the head, whereby the retainer and its gland are slidable as a packing unit laterally of the head and box chamber.

1,782,697. MECHANICAL MOVEMENT. WILLIAM F. RESCHKE, Wichita, Kans. Filed Aug. 19, 1929. Serial No. 386,808. 10 Claims. (Cl. 74—14.)



1. A mechanical movement comprising two meshing eccentric gears, one of which is a driving gear and the other a driven gear, a yoke in which the gears are loosely mounted, a link connected to the eccentric of the driven gear and adjustable anchoring means for the opposite end of the link.

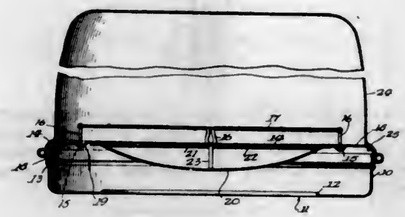
1,782,698. SWITCH FOR DEVICES FOR SUPPLYING PAPER TO PRINTING PRESSES. JAMES E. RUST, Park Ridge, Ill., assignor to Gustavus A. E. Kohler, Chicago, Ill. Filed July 28, 1927. Serial No. 209,030. 5 Claims. (Cl. 200—159.)



5. A device of the kind described comprising a base having an opening extending therethrough, two separated

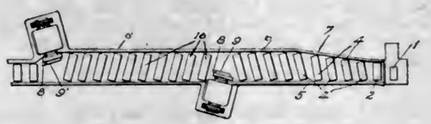
shoulders on the interior of said base at different points along said opening, a push rod in said opening, a spring surrounding said push rod and engaging one of said shoulders, a push button larger in diameter than said rod and connected with the end thereof, said push button adapted to engage the other shoulder when pushed inwardly to limit the inward movement of the rod in one direction, a contact connected with the end of said push rod and located outside of the base and engaging the same when the push button is released to limit the movement of the rod in the other direction, and separated spring conductors adapted to be engaged by said contact when it is moved to a predetermined position.

1,782,699. HEAT DISTRIBUTOR OR PLATE. STANLEY SAUVAGE, Chicago, Ill. Filed Aug. 26, 1929. Serial No. 388,351. 3 Claims. (Cl. 126—214.)



1. A heat distributor plate embodying a body portion having a depending peripheral flange and provided with apertures therethrough adjacent its periphery and inside of the flange, said body portion having a groove extending therearound adjacent and encompassed by the said openings, and a deflector depending from the lower face of said body portion, the periphery of the deflector being disposed adjacent the inner wall of said groove, there being openings through the said inner wall of the groove and the adjacent portion only of the bottom of the groove.

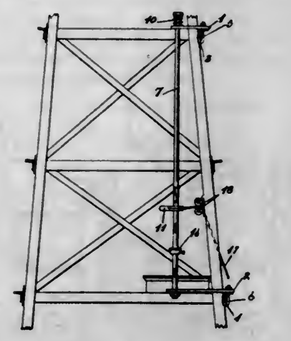
1,782,700. METHOD AND APPARATUS FOR THE MANUFACTURE AND CONDITIONING OF SKELP BAR. JOHN W. SHEPERDSON, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 22, 1927. Serial No. 214,703. 21 Claims. (Cl. 153—2.)



2. In the manufacture of skelp bar, the improvement which consists in imparting longitudinal movement to successively cut-off pieces of the hot rolled product of a skelp bar mill, and during said movement cutting off first one corner and then the other corner of the front end of each piece.

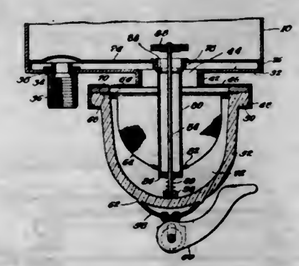
10. In apparatus of the class described, the combination with means for continuing the forward longitudinal movement of successively cut-off pieces of the hot rolled product of a skelp bar mill, of a set of skewed cutting rollers on either side of the path of said pieces, for operation successively on the opposite front corners of each piece, to remove said corners and thereby "point" the front end of the piece.

1,782,701. DERRICK SAFETY APPLIANCE. RUSSELL F. TUCK, Long Beach, Calif. Filed Apr. 30, 1928. Serial No. 274,109. 8 Claims. (Cl. 304—1.)



1. A safety derrick appliance comprising a post, means slidably mounting said post on the derrick, yieldable means against which said post rests, and a rider slidably mounted on the post to which the derrick man is secured, and means on the rider adapted to grip said post.

1,782,702. LIQUID-HANDLING DEVICE. LEONARD H. WHEELER, Chicago, Ill., assignor, by mesne assignments, to Stewart-Warner Corporation, Chicago, Ill., a Corporation of Virginia. Filed Apr. 1, 1926. Serial No. 99,054. 18 Claims. (Cl. 210—166.)

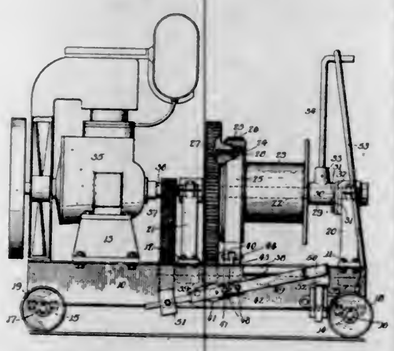


1. The combination with a vacuum fuel feed tank having a bottom and an opening therein, of a false bottom spaced above said bottom, an outlet tube carried by said false bottom and projecting downwardly through said opening, an annular filter element telescoped over said tube, an upwardly opening cup forming a closed space below said filter element, a downwardly opening cup fastened to said bottom and encircling said opening, detachable means for clamping said cups together to form a closed space above said filter element in open communication with the space between said bottoms, an outlet connection for the space between said bottoms, and a check valve in said tube unseated by clamping said cup in place.

1,782,703. PORTABLE HOISTING MACHINE. ALEXANDER H. WILSON, Oak Park, Ill., assignor to Thomas Elevator Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 18, 1927. Serial No. 234,179. 1 Claim. (Cl. 254—166.)

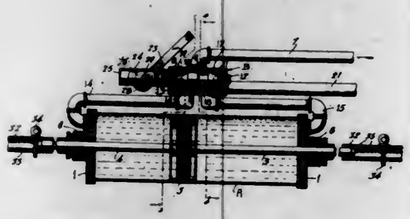
In a portable hoisting machine, the combination of a platform mounted on wheels, a pair of spaced frames

mounted on and crosswise of said platform, a drum shaft journaled in and between said frames in the median vertical longitudinal plane of said platform, a gear keyed to said drum shaft, a hoisting drum loose on said shaft, a motor mounted on said platform in rear of said frames



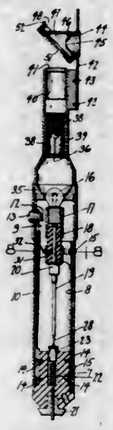
with its shaft axially alined with said drum shaft, a transmission shaft journaled in said platform beneath said drum, a drive from said motor shaft to said transmission shaft, a pinion on said transmission shaft meshing with said gear, cooperating male and female clutch members on said gear and drum respectively, and manually operable means for engaging said clutch members.

1,782,704. OIL-MEASURING APPARATUS. JOSEPH W. WOODRUFF, Elizabeth, N. J. Filed Mar. 27, 1928. Serial No. 265,129. 3 Claims. (Cl. 221—103.)



1. Fluid dispensing apparatus comprising a measuring cylinder, a piston therein, a supply pipe for material under pressure to be measured, a valve mechanism including a casing having an inlet connected to said supply pipe and communicating with a valve cylinder having an open end and four ports leading from said valve cylinder, means for establishing communication between each of two of said ports and one end of said measuring cylinder, a reciprocable piston valve in said valve cylinder having two spaced stop portions with a reduced neck therebetween and another reduced portion at one end of one stop portion for simultaneously controlling communication between said inlet and one of the first-mentioned two ports and between the other of the first-mentioned two ports and one of the otner two ports, packing means at the end of said valve beyond the last-mentioned reduced portion, and means connected to said end of the valve for reciprocating the valve.

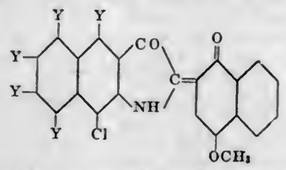
1,782,705. DIAGNOSTIC INSTRUMENT. CHARLES E. H. ARMBRUSTER, Denver, Colo. Filed Feb. 1, 1927. Serial No. 165,140. 9 Claims. (Cl. 88—20.)



1. In a diagnostic instrument of the character described, a casing, a diaphragm in the casing, composed of spaced disks having central apertures, and a light-condensing sphere clamped between the disks and in the apertures thereof.

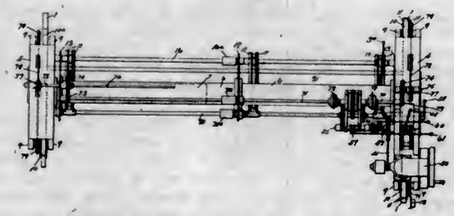
1,782,706. NEW INDIGOID DYESTUFFS. WILHELM BAUER, Wiesdorf-on-the-Rhine, and WILHELM NEELMEIER and THEODOR NOCKEN, Leverkusen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed May 9, 1927, Serial No. 190,132, and in Germany June 11, 1926. 4 Claims. (Cl. 260—49.)

1. As new products indigoid dyestuffs of the general formula :—



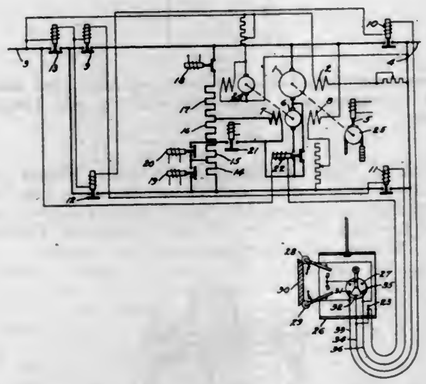
where Y stands for hydrogen or any other substituent, which dyestuffs are generally dark bluish-green crystalline powders soluble with difficulty in cold concentrated sulfuric acid with a green coloration, dyeing the textile fibre from a reddish-brown hydrosulfite vat fast green shades, and which may be obtained by condensing the 4-methoxy-1-naphthol with a reactive α-derivative of an 1-chloro-2.3-naphthisatin.

1,782,707. ROAD-BUILDING APPARATUS. WILLIAM BAYLEY, Springfield, Ohio. Filed May 11, 1925. Serial No. 29,514. 75 Claims. (Cl. 94—48.)



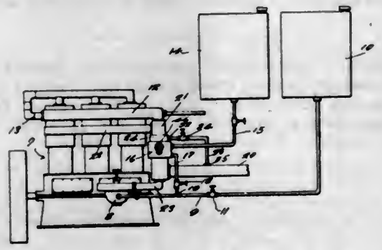
4. In a road making machine of the character described, a traveling main frame adapted to span a deposit of concrete or the like, and a strike off beam capable of intermittent downward and forward thrust movement carried by the main frame extending transversely across the deposit of material and inclined upwardly and forwardly therefrom, throughout the forward portion of the beam, a movable support for the beam guiding the beam into engagement with the road surface at an angle of approximately 45 degrees, and toggle link means for actuating the beam, the rearward position of the beam being extended in approximate parallel relation with the plane of travel of the machine.

1,782,708. ELEVATOR-CONTROL SYSTEM. EDGAR M. BOUTON, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 28, 1925, Serial No. 26,343. Renewed Aug. 12, 1927. 17 Claims. (Cl. 172—152.)



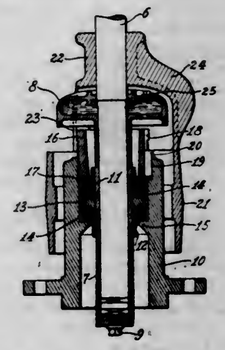
1. The combination with an elevator and a hoisting motor therefor, of means for controlling the speed of said motor, and an auxiliary source of energy for modifying the effect of said controlling means, manually operable means for controlling the motor circuit, and means controlled by the movement of the elevator for controlling said auxiliary source of energy.

1,782,709. CHARGE-TREATING DEVICE FOR INTERNAL-COMBUSTION ENGINES. ADOLF BREITLING, Tampico, Mexico, assignor of eighteen per cent to Guillermo Leon Zarate and seven per cent to John E. Palmer. Filed June 6, 1929. Serial No. 368,867. 2 Claims. (Cl. 123—127.)



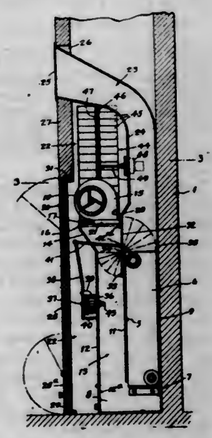
1. In combination with an internal combustion engine adapted for using light hydrocarbon fuels, and having a carbureter and a water cooled exhaust manifold, a selectively controlled fuel line leading to the carbureter for conveying light-carbon fuels thereto, a closed drum for receiving heavy hydro-carbon fuels supported on the exhaust pipe having an inlet conductor connected therewith for conducting an independent and heavier fuel than the first mentioned light fuel, and further having a selectively controlled outlet conductor leading from said drum to the carbureter and selectively controlled means for conducting water from the exhaust manifold for cooling said heavier fuels in the drum in the event the temperature reaches a point beyond that required for efficient operation of the internal combustion engine.

1,782,710. BEARING CONSTRUCTION. PETER C. BRUCKMANN, St. Louis, Mo., assignor, by mesne assignments, to Vorclone Company, a Corporation of Wisconsin. Filed Feb. 25, 1926. Serial No. 90,462. 1 Claim. (Cl. 308—145.)



In a device of the character described, the combination of a vertical shaft, a bearing enclosing the lower end of the shaft and having an oil reservoir vertically above the end of the shaft, a pulley encircling the bearing below said reservoir, arms extending from the pulley across said reservoir and secured to said shaft above said reservoir, and air propelling fins on said arms, whereby air will be caused to circulate past the reservoir.

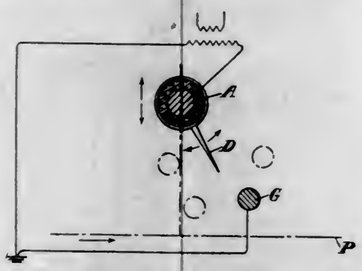
1,782,711. CONCEALED UNIT FOR HEATING AND VENTILATING. MICHAEL J. CALLAHAN, New York, N. Y. Filed Feb. 20, 1925. Serial No. 10,715. 30 Claims. (Cl. 257—137.)



8. A heating and ventilating unit having, in combination, a casing having a chamber at its bottom containing

a heating element, and a discharge chamber at the top, and a motor and blower between said element and discharge chamber, a single pivotally mounted mixing damper positioned to swing so as to control the exit of the heating chamber and the entrance of the discharge chamber, and means for actuating the damper to shift the same between extremes to any one of a plurality of positions, whereby air of predetermined temperature may be delivered from the unit.

1,782,712. METHOD OF CONTROLLING ELECTROSTATIC CHARGES ON MOVING SURFACES. WILLIAM HENRY CHAPMAN, Portland, Me., assignor to Chapman Electric Neutralizer Company, Portland, Me., a Corporation of Maine. Filed Jan. 11, 1930. Serial No. 420,058. 6 Claims. (Cl. 175—264.)



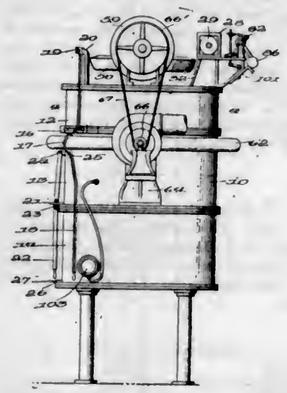
1. That method of attaining predetermined degrees and polarities in the neutralization of electric charges on moving surfaces which consists in directing neutralizing discharges at a predetermined angle to the surface in the direction of its movement and in maintaining a ground laid transversely on one side or the other of the line of discharge to effect the desired polarity and at a predetermined distance from the surface to control the degree.

1,782,713. VULCANIZATION OF RUBBER. HARRY O. CHUTE, New York, N. Y. Original application filed Dec. 21, 1922, Serial No. 608,355. Divided and this application filed May 29, 1926. Serial No. 112,693. 11 Claims. (18—53.)

1. In the vulcanization of rubber the process which comprises vulcanizing such rubber in the presence of the reaction product of a cyanamid, formaldehyde and an amine.

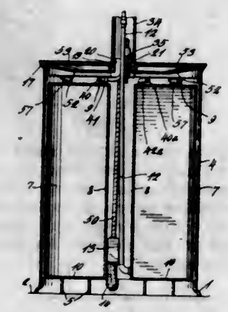
1,782,714. APPARATUS FOR TREATING OLEAGINOUS MATERIAL. JOSEPH DAVIDSON, Atlanta, Ga., assignor to Davidson-Kennedy Company, Atlanta, Ga., a Corporation of Georgia. Original application filed Apr. 10, 1928, Serial No. 268,917. Divided and this application filed Apr. 15, 1929. Serial No. 355,304. 9 Claims. (Cl. 87—6.)

1. A cooking apparatus for oleaginous material comprising a receptacle separated into a measuring compartment, a cooking compartment, and a receiving compartment, said compartments having communicating openings, manually operable means for controlling the supply through said openings, a supply trough positioned above said measuring compartment and having a passage communicating therewith, a slidable gate valve for controlling the supply through said passage, means normally maintaining said gate valve in its open position, a paddle extending through the top of said measuring kettle and operatively connected to said gate valve to automatically close the same when the material reaches a predetermined depth in the measuring kettle, a tubular shaft extending axially through said kettle, stirrer blades clamped to said shaft adjacent the bottom of the measuring and cooking compartments, means delivering steam through said tubular shaft to the bottom of said measuring and cooking compartments, means associated with the cooking



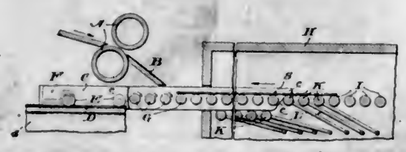
compartment for drawing off the excess steam and moisture therefrom, and means for revolving said tubular shaft.

1,782,715. OIL-DISPENSING DEVICE. HAROLD G. DAVIS, Denver, Colo., assignor to The Davis and Son Manufacturing Company, Denver, Colo., a Corporation of Colorado. Filed Apr. 20, 1928. Serial No. 271,503. 11 Claims. (Cl. 221—74.)



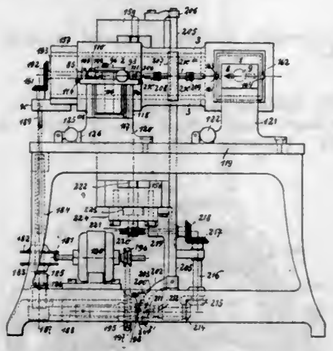
1. An oil dispensing device having a hollow base, a plurality of oil storage tanks located in the base, some of said tanks having their adjacent surfaces spaced apart so as to form a chamber, oil discharge pipes in said chamber, said pipes being connected with the lower ends of said tanks and means for heating said chamber so as to maintain the oil in flowable condition during cold weather.

1,782,716. SHEET-GLASS-HANDLING MECHANISM. VERNON M. DORSEY, Chevy Chase, Md., assignor to The American Bicheroux Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 13, 1929. Serial No. 354,880. 6 Claims. (Cl. 198—127.)



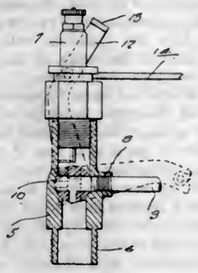
1. In a device of the character described, the combination with a travelling carriage having a glass receiving and feeding bed, of a lehr conveyor comprising glass feeding devices mounted for movement out of and into the path of the carriage, and means for moving the devices successively substantially into line with the glass receiving and feeding surface of the carriage as the latter recedes.

1,782,717. MEANS FOR AUTOMATICALLY COPYING PICTURES AND MAKING PRINTING PLATES FOR PRINTING PICTURES, ETC. HEINRICH DREWELL, Berlin-Charlottenburg, Germany. Filed Sept. 4, 1928, Serial No. 303,765, and in Germany Apr. 3, 1926. 11 Claims. (Cl. 178—11.)



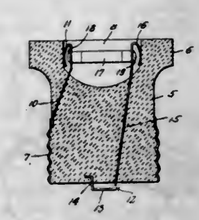
1. In means for automatically making copies from an original picture, the combination of light-controlled electric means adapted to be controlled by the light acting on them, as oscillating string carrying a printing member adapted to make impressions of different size on a printing surface the intensity of its oscillations being controlled by said light-controlled electric means, and means for bringing in succession all the points of an original picture one after another into position to control the light acting on said light-controlled electric means and for simultaneously presenting corresponding points of a printing surface to said oscillating member to receive impressions therefrom.

1,782,718. AIR-COMPRESSING COUPLING FOR ENGINE CYLINDERS. JOHN EDGREN, Thayne, Wyo. Filed June 27, 1928. Serial No. 288,741. 3 Claims. (Cl. 123—198.)



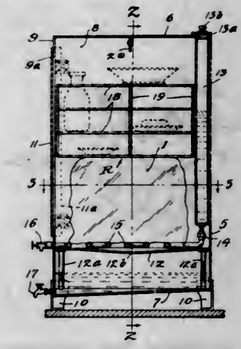
1. An attachment for engine cylinders comprising a hollow body having a threaded nipple formed on one end adapted for threaded engagement with the spark plug opening of the cylinder and having its opposite end arranged for threadably receiving the spark plug whereby to provide communication between the cylinder and the spark plug through the body, a feed pipe extending laterally from one side of the body, and a valve operatively arranged in the body and adapted for selectively controlling communication with the cylinder of either the spark plug or the feed pipe.

1,782,719. FUSE PLUG. EDWARD BERGER EKSTRAND, West Somerville, Mass. Filed Sept. 16, 1929. Serial No. 392,850. 2 Claims. (Cl. 200—130.)



1. A fuse plug having a recessed cylindrical body, a metallic sleeve disposed about said body, said sleeve being screw threaded, a pair of spring contact members imbedded within said body, said contact members having one end thereof extending into the recess, one of said contact members having an intermediate portion thereof extending exteriorly of the body at a point remote from the recess, and the ends of said contact members within said recess being provided with oppositely disposed pockets, and a fuse in said recess, the ends of said fuse being received in the pockets of said contact members.

1,782,720. REFRIGERATOR. RALPH E. FRANKLIN, Minneapolis, Minn., assignor of one-half to Tilliferd P. Knutson, Minneapolis, Minn. Filed Jan. 23, 1928. Serial No. 248,698. 2 Claims. (Cl. 62—43.)

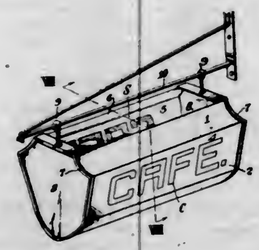


1. In refrigerator structure, a box-like casing having vertical sides, a top and a door in one of said sides, a vertically disposed water reservoir of narrow cross section extending into said casing and supported from the top thereof disposed substantially flush against one side of said casing, a removable horizontal support mounted in the bottom of said casing, a flat coil upon said support, said coil being connected with said water reservoir and being adapted to support a chunk of ice and a food supporting rack telescoped within said casing and adapted to be supported upon a chunk of ice, said rack having vertical sides adapted to slidably engage the vertical sides of said casing and the inner vertical side of said water reservoir.

1,782,721. ADVERTISING OR LIKE SIGN OR DEVICE. GENNADY FRENKEL, Kingston-on-Thames, England. Filed Nov. 19, 1928. Serial No. 320,484, and in Great Britain May 14, 1928. 10 Claims. (Cl. 40—130.)

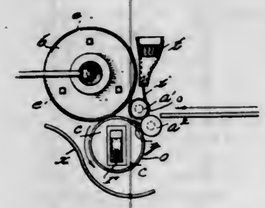
9. An advertising or like sign adapted to be illuminated by daylight, comprising a glass tube including a translucent top wall and side walls, said side walls being

converted into a mirror for internal reflection and having translucent portions carrying advertising characters



whereby advertisements on the side walls may be exhibited at one and the same time in opposite directions by illumination by daylight entering through the top wall.

1,782,722. MACHINE FOR IRONING FURS. FROMMER GÉZA, Ujpest, Hungary, assignor to Messrs. Diamant Samu És Fiai, Budapest, Hungary. Filed Jan. 17, 1929. Serial No. 333,213, and in Hungary Jan. 23, 1928. 4 Claims. (Cl. 149—24.)



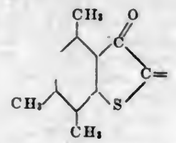
3. A machine for ironing furs, comprising an ironing roller, means for heating said roller, parallel ribs on said ironing roller, a pressure roller, means for resiliently pressing said pressure roller against said ironing roller, a pair of feed rollers arranged adjacent the ironing roller and the pressure roller, the upper of said feed rollers being covered with water absorbing substance, a container for water mounted above the feed rollers, an opening in the bottom of said container, water-absorbing means depending from said opening for conducting water from the container to the upper feed roller, and a guide plate for returning the ironed fur, said guide plate being arranged under the pressure roller.

1,782,723. MANUFACTURE OF UREA. HARRY C. HETHERINGTON, Washington, D. C., and HERBERT J. KRASE, Clarendon, Va., assignors to Arthur B. Lamb, Trustee. Filed Mar. 2, 1926. Serial No. 91,831. 3 Claims. (Cl. 260—125.)

1. The method of continuously producing urea by heating ammonia and carbon dioxide under pressure, including separating from each other the ammonia and carbon dioxide unconverted to urea, and returning them separately to the urea-forming system.

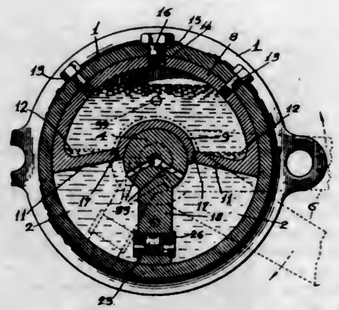
1,782,724. TRIMETHYLTHIONAPHTHENE VAT DYESTUFFS. ERWIN HOFFA and HANS HEYNA, Hochst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Mar. 30, 1928, Serial No. 266,106, and in Germany Apr. 11, 1927. 5 Claims. (Cl. 260—53.)

1. As new products, vat dyestuffs containing the following atomic grouping:



the said dyestuffs yielding dyeings of excellent fastness properties.

1,782,725. SHOCK ABSORBER. ULYSSES A. INMAN, Long Beach, Calif. Filed Aug. 17, 1929. Serial No. 386,704. 7 Claims. (Cl. 188—89.)

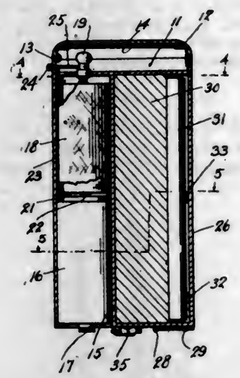


1. A shock absorber comprising a body adapted for attachment upon the chassis of an automobile and having an oil chamber therein; a shaft mounted upon the body and extending into the chamber, said shaft being provided with an actuating arm adapted for attachment to the automobile at a point movable relative to the chassis when the springs of the automobile are flexed; a reservoir member mounted within the upper portion of the chamber above the shaft and having a bearing portion engaging the shaft, said member having restricted passages communicating with the chamber upon opposite sides of the shaft; a vane carried by the shaft and extending downwardly into the chamber, said vane forming a close sliding fit against the walls of the chamber and dividing said chamber into compartments; a balanced check valve mounted within the vane to normally permit a restricted flow of oil therepast in either direction when the vane is moved by a slight movement of the arm and shaft, and being movable to check said flow if the vane is moved rapidly in either direction; auxiliary passages formed through the shaft to communicate between the compartments and permit a limited flow of oil from one compartment to the other independently of the check valve; an oiling channel formed within the body around the shaft; and passages connecting said channel with the chamber and with the reservoir whereby oil may be circulated through said channel to lubricate the shaft.

1,782,726. VANITY CASE. HENRY B. IVEY, Goldsboro, N. C. Filed Feb. 13, 1929. Serial No. 339,697. 1 Claim. (Cl. 206—38.)

A special article carrier of the character described comprising a cylindrical casing having an open side, said casing closed at its opposite end, a cylinder extending longitudinally through the casing adjacent one side thereof adapted to contain a storage battery, a hinged

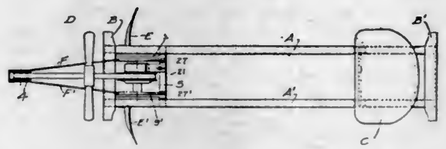
closure for the opening mounted on the casing, a cigarette carrier mounted in the casing and comprising a body portion which is co-extensive with the interior of the casing and provided with a longitudinally extending recess in one side for the reception of the cylinder and having parallel vertical channels in its periphery at a point substantially diametrically opposite from the recess and communicating with the opening in the side of the casing, said body portion being further provided, at its lower side, with a series of sockets communicating with the adjacent ends of the channels for the reception of the ends of the cigarettes and an arcuate resilient retaining arm mounted on the body portion and extending transversely across the channels intermediate their ends for retaining the cigarettes therein.



1,782,727. BASIC NITRO DERIVATIVES OF 9 AMINOACRIDINE AND PROCESS OF PREPARING THE SAME. HEINRICH JENSCH, Hochst-on-the-Main, and OTTO EISLEB, Hofheim-on-the-Taunus, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 6, 1928, Serial No. 245,046, and in Germany Jan. 11, 1927. 4 Claims. (Cl. 260—36.)

1. The process for preparing therapeutically active basic nitro derivatives of 9-amino-acridine, which consists in causing compounds of the formula: NH_2R wherein R stands for hydrogen or alkyl to act upon nitroacridines substituted in 9-position by halogen and substituted at another C-atom of the acridine ring by a radical containing at least one aliphatically bound N-atom.

1,782,728. EXERCISING APPARATUS. KARL KIEFER, Cincinnati, Ohio. Filed June 28, 1928. Serial No. 288,823. 3 Claims. (Cl. 272—72.)



2. In a rowing apparatus, a combination of a pair of hollow rails, a movable seat on rollers, the rollers moving within said rails and protected thereby, a pair of supports at the end of these rails and connecting them, an extending and folding arm hinged near the end of the rails so as to extend beyond the rails when in use and thereby lengthen the stroke beyond the rails and folding within the rails when not in use, an idler journaled in the said arm at the extremities thereof, a friction apparatus fastened to the frame, a flexible member associated with the friction apparatus, said member passing over the said idler, and a handle bar fixed to the end of said flexible member, means associated with the friction apparatus adapted to frictionally resist movement thereof when a pulling force is applied to said flexible member and automatically relieve the friction when the pulling force is released.

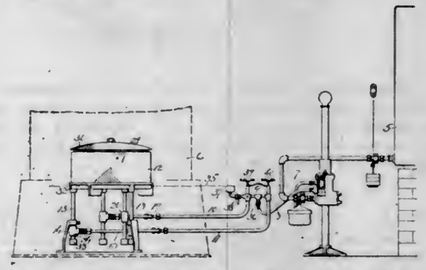
1,782,729. PROCESS OF CATALYTICALLY HYDROGENATING AROMATIC AMINO COMPOUNDS AND PRODUCTS PRODUCED THEREBY. FELIX KLINGEMANN, Mainkur, near Frankfort-on-the-Main, WILHELM LOMMEL, Wiesdorf, near Cologne-on-the-Rhine, ERNST KORTEN, Fechenheim, near Frankfort-on-the-Main, and THEODOR GOOST, Leverkusen, near Cologne-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, a Corporation of Germany. Filed Oct. 2, 1926, Serial No. 139,226, and in Germany Oct. 10, 1925. 5 Claims. (Cl. 260—127.)

1. A new process of catalytically reducing aromatic amino compounds comprising treating aromatic amino compounds of the general formula:



(wherein R means an aryl residue, X_1 means hydrogen, which may be replaced by alkyl, aralkyl and aryl X_2 means alkyl, which may be replaced by aralkyl, or acyl) with hydrogen under pressure in a liquid phase in the presence of a base metal hydrogenation catalyst.

1,782,730. OIL BURNER. ALBERT A. LAPOINTE, West Hartford, Conn., assignor to The Silent Glow Oil Burner Corporation, Hartford, Conn., a Corporation of Connecticut. Filed Apr. 20, 1925. Serial No. 24,348. 8 Claims. (Cl. 158—87.)



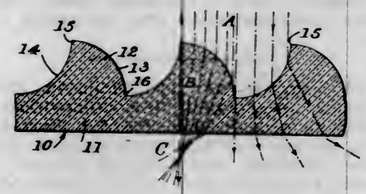
1. A burner comprising a trough with an enclosed burner flue rising therefrom and opening at its upper end, an air flue enclosed within the burner flue, a damper to regulate flow of air through said air flue, and a deflector overlying the burner flue and connected with said damper for operation thereof.

1,782,731. MILK-BOTTLE CAP. VICTOR JOSEPH LARAMIE, Detroit, Mich. Filed Mar. 6, 1929. Serial No. 344,784. 1 Claim. (Cl. 215—51.)



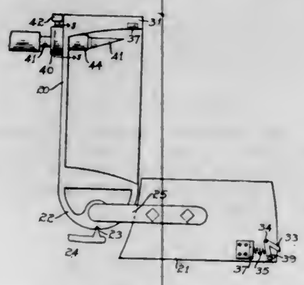
A bottle cap of the character described, comprising a thin, rigid, metallic disc adapted to seat in the mouth of a milk bottle, and an upwardly, inwardly and downwardly curved rigid metallic finger formed integral with the marginal portion of the disc and extending rearwardly thereover and terminating in spaced opposed relation to the inner portion of said disc.

1,782,732. COVER GLASS. STATES LEE LEBBY, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed Mar. 13, 1929. Serial No. 346,755. 4 Claims. (Cl. 240—106.)



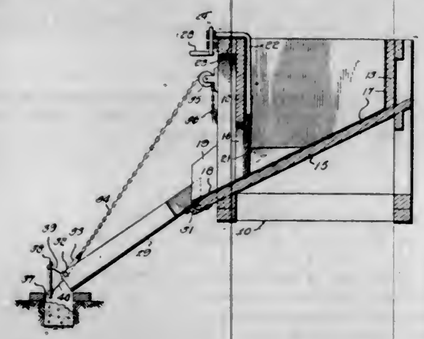
1. A cover glass comprising a transparent plate, and parallel light refracting members on said plate, each of said light refracting members being divided midway of its width into parallel light refracting surfaces of opposite curvature.

1,782,733. BAG-FILLING METHOD AND APPARATUS. SCOTT H. LILLY, Toledo, Ohio. Filed June 14, 1928. Serial No. 285,433. 18 Claims. (Cl. 226—48.)



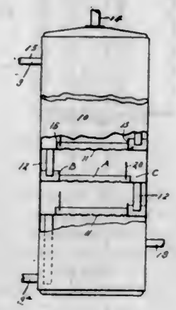
1. The method of filling a bag, which comprises enclosing the bag in a casing, evacuating air from the casing outside of the bag and thereby expanding the bag into contact with the casing, and filling material into the expanded bag within the casing.

1,782,734. CONCRETE-DISTRIBUTING APPARATUS. ALEXANDER MACDOUGALD, Atlanta, Ga., assignor to MacDougald Construction Company, Atlanta, Ga., a Corporation of Georgia. Filed Nov. 28, 1927. Serial No. 236,337. 1 Claim. (Cl. 193—17.)



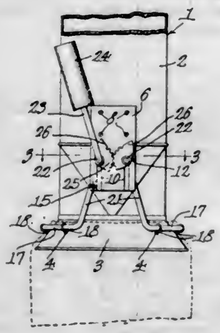
Apparatus of the character described comprising a hopper having an opening in the bottom of the front wall thereof and a bottom sloping downwardly toward said opening, guides mounted against the inner face of the front wall of said hopper on opposite sides of said opening, a gate vertically slidable in said guides, a vertically extending rod carried by said gate and having a transverse extension carried by its upper end and projecting across the front wall of said hopper, a lever pivotally connected intermediate its ends to the outer face of the front wall of said hopper and adapted to swing in a plane parallel to the movement of said gate, said lever being provided in one end portion thereof with a longitudinal slot slidably receiving said transverse extension..

1,782,735. FLUID-TREATING APPARATUS. JOHN ALEXANDER MACKENZIE, Los Angeles, Calif. Filed Mar. 21, 1927. Serial No. 177,028. 3 Claims. (Cl. 261—113.)



1. A tower of the character described including a vertically disposed body, horizontally disposed trays in the body, two spaced upwardly extending weirs on each tray each extending completely across the tray, the partitions forming a central circulating chamber, a receiving chamber and a discharge chamber at each tray, a down flow pipe connected with each tray in communication with the discharge chamber, the trays being related so that the down flow pipes connect the discharge chambers and receiving chambers of adjacent trays, and means for circulating gas upward through the trays including a plurality of upwardly inclined tongues extending over openings in the trays, the tongues and openings being arranged in pairs with the tongues facing each other.

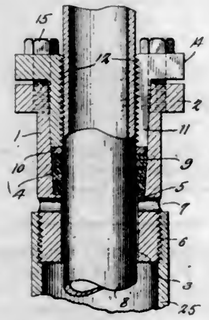
1,782,736. BAG HOLDER. DWIGHT W. MAHAFFEY, Moral, Ohio. Filed Mar. 16, 1928. Serial No. 262,115. 2 Claims. (Cl. 83—26.)



1. In a bag holding device, a spout having a downwardly flared bag receiving portion provided with aper-

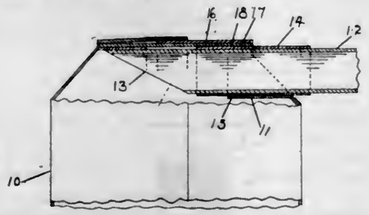
tures, and a retaining device comprising a member extending transversely to said spout, shaped to conform substantially to the contour of the adjacent part of said flared portion of said spout and having prongs arranged to extend substantially perpendicular to the surface of said flared portion of said spout when said transverse member is located adjacent thereto, and arms extending upwardly from the respective ends of said transverse member and pivotally mounted on the respective sides of said spout, said arms being so arranged with relation to said spout and said transverse member that when they are moved downwardly said transverse member will be moved toward the flared portion of said spout in substantially the direction of the length of said prongs.

1,782,737. CASING SUSPENSION HEAD. LEE H. MAHON, Norphlet, Ark. Filed Jan. 19, 1927. Serial No. 162,164. 1 Claim. (Cl. 285—22.)



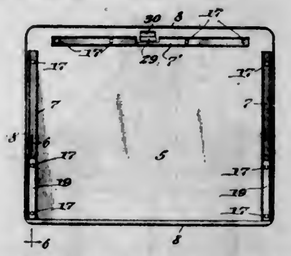
A device of the class described, characterized by the provision of individually adjustable and individually removable pressure members, said device comprising a body having an internal shoulder, a packing means in the body and engaging the shoulder, the aforesaid pressure members being wedge-shaped, each pressure member operating independently of the other pressure members, the pressure members engaging the packing means and being movable longitudinally within the body, the pressure members having separate outstanding arms overhanging the outer surface of one end of the body, whereby all of the pressure members may be removed, leaving the body in ing through and engaging each of the outstanding arms of the pressure members, the fastening devices being mounted adjustably at their inner ends in said end of the body, place. and an individually operable fastening device passwhereby each pressure member may be removed independently of the others while pressure is upon said other pressure members.

1,782,738. VALVE BAG. CHESTER C. MARTIN, Luckey, Ohio, assignor, by mesne assignments, to St. Regis Paper Company, New York, N. Y., a Corporation of New York. Filed Sept. 3, 1926. Serial No. 133,336. 3 Claims. (Cl. 150—9.)



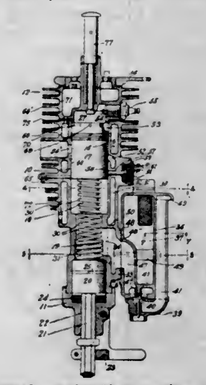
1. A bag ready for filling and having a valve opening, a valve-sealing tube open at both ends and having its inner end affixed in the valve opening and having its outer end extending outward from said opening and designed to form a sealing closure at said outer end.

1,782,739. OVEN DOOR. WALTER MOLL, Evansville, Ind., assignor to Hoosier Lamp and Stamping Corporation, Evansville, Ind. Filed June 6, 1928. Serial No. 283,418. 4 Claims. (Cl. 126—190.)



1. The combination with an oven door provided with a lining or backing, said door and backing collectively being provided with a channel located between them which extends from side to side thereof, of a removable rod lying in said channel, and a frame which carries said rod.

1,782,740. INTERNAL-COMBUSTION ENGINE. JAMES A. MOULD, Milwaukee, Wis. Original application filed Oct. 21, 1927, Serial No. 227,656. Divided and this application filed Sept. 18, 1928. Serial No. 306,770. 11 Claims. (Cl. 123—74.)

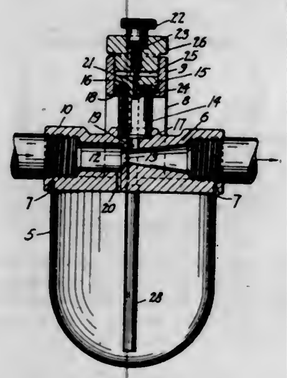


10. In an internal combustion engine, the combination with a cylinder having a combustion chamber and compression chamber and a wall provided with laterally adjacent ports communicating with the respective chambers, of a carburetion unit affording the sole means of communication between said ports and connected with said cylinder around said ports, said unit comprising a pair of passages terminating in registry with the respective ports, a carburetion chamber affording communication between said passages and provided with an air admission port immediately adjacent the point of communication aforesaid, a valve controlling flow through said air admission port, and means for supplying a hydrocarbon to said carburetion chamber.

1,782,741. LUBRICATING DEVICE FOR PNEUMATICALLY-OPERATED TOOLS. CARL A. NORGREN, Denver, Colo. Filed Aug. 2, 1927. Serial No. 210,114. 7 Claims. (Cl. 184—56.)

3. A lubricator of the character described comprising a reservoir, a head for the reservoir formed with a bored

standard and an annular screw threaded boss on the standard interiorly connected with the bore thereof, the body portion of the head having a passage adapted for connection in an air line and having a point of reduced area to produce a partial vacuum by the flow of air through the air line, and the head having furthermore, a duct connecting the passage with the reservoir above its liquid level and a second duct to connect the passage



with a siphon line of which the bore in the standard is a part, a packed sight tube between the boss and the head in connection with the second duct, a gland in the boss, having a bore connecting the interior of the boss with the sight tube, a plug in the boss, spaced from the gland, a valve on the plug, controlling the bore of the gland, and a pipe extending from the bore of the standard to the bottom portion of the reservoir.

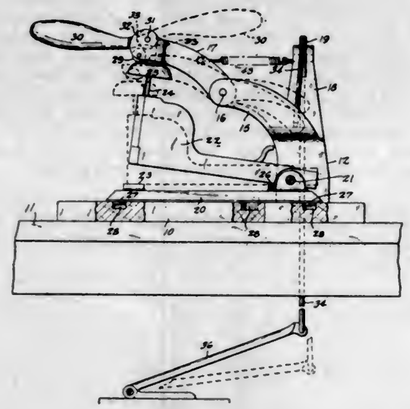
1,782,742. BODY SUSPENSION FOR BABY CARRIAGES. HARRY PERLMUTTER, Brooklyn, N. Y. Filed July 25, 1927. Serial No. 208,199. 1 Claim. (Cl. 296—35.)



In a baby carriage, a body, a running gear, a body bracket at each end of the body, a running gear bracket at each end of the running gear, a body-supporting bolt at each end of the carriage having universal pivotal relation with both brackets, being slidably engaged through one bracket, the other bracket having an aperture sperical bearing at the outer side, said bolt being engaged therethrough and having a spherical head set in the bearing, and a load-sustaining helical spring encircling the bolt under compression between one bracket and the bolt.

1,782,743. OPERATING DEVICE FOR STAPLING MACHINES, TAG-AFFIXING MACHINES, AND SIMILAR DEVICES. FEIDOLIN PÖLZER, Norwalk, Conn., assignor to The E. H. Hotchkiss Company, Norwalk, Conn., a Corporation of Connecticut. Filed Sept. 20, 1927. Serial No. 220,706. 5 Claims. (Cl. 74—81.)

1. In a device for operating machines having independent operating means comprising a movable hand knob forming a part of said machine, a support for the machine to be operated to which the machine may be applied and from which it may be removed as a whole, a bracket associated with said support, a lever pivoted to the bracket, a

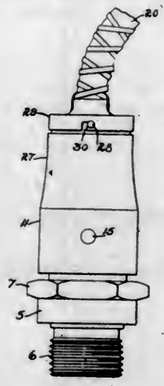


roller carried by the lever adapted to rest on the hand knob for functioning the operating means of the machine, and means for operating the lever to operate the machine.

1,782,744. PROCESS FOR RECOVERING WASTE CLAYS. WIRT D. RIAL, Wilmington, and WHITFORD R. BARRATT, Palos Verdes Estates, Calif., assignors, by mesne assignments, to Richfield Oil Company of California, Los Angeles, Calif., a Corporation of Delaware. Filed Jan. 5, 1927. Serial No. 159,236. 4 Claims. (Cl. 252—2.)

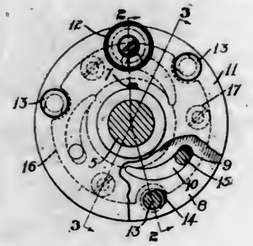
1. A process of revivifying spent clays used in decolorizing and clarifying petroleum oils consisting in washing the spent clays with a solvent to remove petroleum oil constituents, then extracting the coloring matter from the clays with a solvent obtained from acid sludge by separating the water-soluble constituents therefrom, and then hydrating the clays thus treated.

1,782,745. SHIELDED SPARK PLUG. OTTO C. ROHDE, Toledo, Ohio, assignor to Champion Spark Plug Company, Toledo, Ohio, a Corporation of Delaware. Filed Feb. 28, 1929. Serial No. 343,283. 2 Claims. (Cl. 123—169.)



1. A spark plug comprising a metallic shell, an insulating core seated therein and having a recess in its outer end, an electrode secured in said core and terminating at its outer end within said recess, a detachable metallic housing constituting a continuation of said shell, a conductor, a metallic cap having a bayonet slot connection with said housing for securing said conductor in contact with said electrode, a flexible casing of insulating material for said conductor, and flexible metallic strands wrapped about said casing and electrically connected to said cap.

1,782,746. CRANK DISK. LAURENCE ROBERTSON, Toledo, Ohio. Filed Dec. 16, 1929. Serial No. 414,440. 4 Claims. (Cl. 74—20.)



1. The combination with a rotatable shaft and a disk secured thereon, of a second disk coaxial with the first disk, a wrist pin secured to the second disk, and a driving connection between the two disks comprising tumblers pinned to one disk, the other disk having slots receiving said tumblers, the slots being longer than the tumblers in a circumferential direction to allow a lost motion between the disks.

1,782,747. PROCESS OF SPLITTING OFF SULPHO-GROUPS FROM ANTHRAQUINONE SULPHONIC ACID DERIVATIVES. ROBERT EMANUEL SCHMIDT, Elberfeld, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Apr. 13, 1926, Serial No. 101,780, and in Germany Apr. 17, 1925. 7 Claims. (Cl. 260—59.)

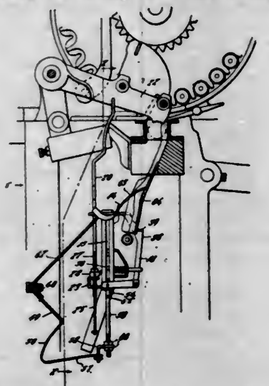
1. The process of splitting off a sulpho group from an anthraquinone sulphonic acid derivative which comprises treating the anthraquinone sulphonic acid derivative in a substantially neutral solution with sodium hydrosulfite whereby there is formed a hydrocompound of said anthraquinone sulphonic acid derivative, and treating the said hydrocompound with an alkaline agent.

1,782,748. ARTIFICIAL STONE AND METHOD OF MAKING THE SAME. IRVING J. SMITH, Baltimore, Md. Filed Feb. 26, 1927. Serial No. 171,372. 2 Claims. (Cl. 106—24.)

1. As an article of manufacture, a building block, which consists of the hardened product resulting from the mixture of water saturated cinders, of a uniform size, an inert filler, the main ingredient of which is calcium carbonate, cement and water.

1,782,749. "JERKED-IN" FILLING ELIMINATOR. ROBERT BELTON STANCILL, Dalton, Ga. Filed June 13, 1929. Serial No. 370,657. 2 Claims. (Cl. 139—261.)

1. A machine for looms comprising a filling engageable arm, a trip mechanism, means interposed between the trip mechanism and the usual transferrer arm of the bobbin replenisher, and a connection between the trip mechanism and the said filling engageable arm whereby the arm may be moved to engage the trailing filling and be released by said trip mechanism after a time interval sufficient to break the filling, said trip mechanism con-



sisting of a spring projected plunger, and means for engaging the plunger to retract the same when the same is being moved in a predetermined position.

1,782,750. AIRPLANE CONTROL. WILLIAM STELZER, Chicago, Ill., assignor to Bendix Aviation Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 18, 1929. Serial No. 340,762. 1 Claim. (Cl. 244—29.)

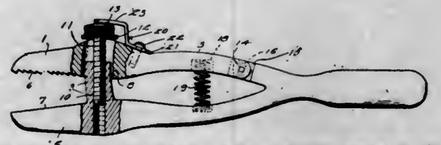


An airplane comprising a main carrying plane, a body supported thereby having a portion extending well forward of the main carrying plane, a plurality of elements each combining the function of an elevator, aileron and a strut connecting the carrying plane to the forward end of the extended body portion, an operating lever positioned on the body portion and linkage connecting each of the elements to the operating lever.

1,782,751. CELLULOSE PRODUCT. EUGENIO ANTONIO VAZQUEZ, Habana, Cuba, assignor to Vazcane Process, Inc., a Corporation of Delaware. Original application filed Aug. 30, 1927, Serial No. 216,348, and in Cuba June 2, 1927. Divided and this application filed Apr. 3, 1928. Serial No. 267,037. 10 Claims. (Cl. 92—3.)

1. The cellulosic product comprising abraded sugarcane from which substantially all sugar has been removed.

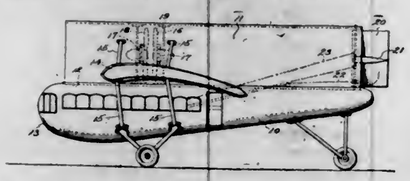
1,782,752. WRENCH. AUGUST WEISLER, Perryville, Mo., assignor of one-half to F. J. Hagerling, St. Louis, Mo. Filed Feb. 26, 1929. Serial No. 342,762. 3 Claims. (Cl. 81—118.)



1. A wrench comprising a jaw, a shank carried by the jaw and a handle connected to the shank, a shiftable jaw,

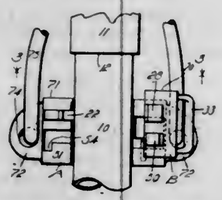
a shank carrying the shiftable jaw, a pivotal connection between said last shank and the first mentioned shank, said shiftable jaw having a passage therethrough from the front to the back face, a post rigid with the first mentioned jaw in position to extend into said passage, a headed screw member extended into said post through the outer end of said passage and having the head thereof acting upon the back of the shiftable jaw, and resilient means normally forcing said shiftable jaw outwardly against said screw head.

1,782,753. AERO AUXILIARY CYLINDER. JOHN H. WHEELER, deceased, Columbus, Ohio, by Grace P. Wheeler, administratrix, Columbus, Ohio. Filed Oct. 21, 1929. Serial No. 401,266. 1 Claim. (Cl. 244—18.)



A device of the character set forth comprising a fuselage tapering from the forward end toward the rear end and having a longitudinally extending groove formed in the top wall thereof, a hollow stabilizing cylinder having each end fully open and secured in the recess of the fuselage and extending substantially the full length of the latter, wings secured to the fuselage, struts secured to the wings and to the fuselage and cylinder, brackets arranged in the cylinder inwardly of the forward end thereof, motors carried by the brackets, propellers driven by said motors and located in the cylinder in close proximity to each other and one of said propellers of the suction type and the other propeller of the type to cause the air to be rapidly forced through the cylinder along with the exhaust from the motors in a rearward direction relative to the fuselage, and steering means located at the rear end of the cylinder.

1,782,754. ELEVATOR. CHARLES E. WILCOX, Long Beach, Calif. Filed Mar. 28, 1929. Serial No. 350,580. 18 Claims. (Cl. 294—91.)

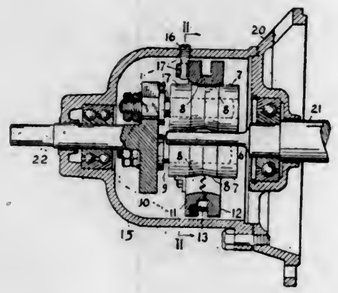


1. An elevator including, two pivotally connected sections adapted to engage around a casing, a latch for holding the sections in casing engaging position, the sections being shiftable relative to each other when in casing engaging position and having cooperating locking parts engageable by shifting of the sections, and means yieldingly holding the sections in position where said parts are disengaged.

1,782,755. METHOD OF TREATING BAGASSE FOR THE MANUFACTURE OF WALL BOARD AND THE LIKE. WILLIAM L. S. WILLIAMS, Hilo, Territory of Hawaii, assignor to Hawaiian Cane Products, Limited, Hilo, Hawaii, a Corporation of the Territory of Hawaii. Filed Aug. 9, 1929. Serial No. 384,803. 6 Claims. (Cl. 92—14.)

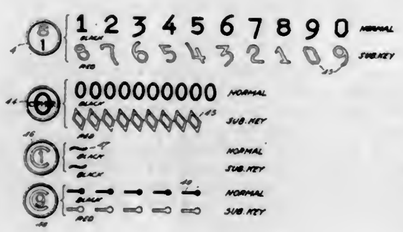
1. The method of treating bagasse for the manufacture of wall board and the like, which comprises separating the fibrous from the pith portions, digesting the fibrous portion to produce a clear fibre, cooking the pith portion with water to effect the desired degree of hydration, and admixing the resultant stocks.

1,782,756. CHANGE-SPEED GEAR. HOWARD MAURICE EDMUNDS, New York, N. Y., and EDWARD HILEMAN WARING, Essex Fells, N. J., assignors to Crocker-Wheeler Electric Manufacturing Company, Ampere, N. J., a Corporation of New Jersey. Filed Apr. 27, 1929. Serial No. 358,448. 2 Claims. (Cl. 74—34.)



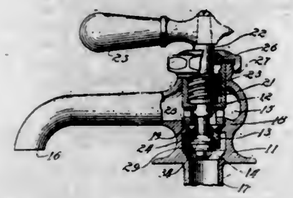
1. Friction gearing of the type set forth with a central roller; satellite rollers having beveled surfaces, arranged in opposed pairs, in frictional engagement with the central roller; an outer race in two parts one of which is in engagement with one of the beveled surfaces and the other of which is in engagement with the other beveled surface of each of the satellite rollers; connections between the parts of the outer race by which they have relative rotative adjustment and concurrent relative adjustment in the direction of their axis; and means for restraining one of the parts of the outer race from rotation and holding it in a plane at right angles to the axis of the mechanism while permitting parallel displacement of its axis.

1,782,757. COMPUTING MACHINE. HARRY ARTHUR FOOTHORAP, Harrisburg, Pa., assignor to Elliott-Fisher Company, a Corporation of Delaware. Filed Aug. 24, 1921. Serial No. 494,942. 25 Claims. (Cl. 235—59.)



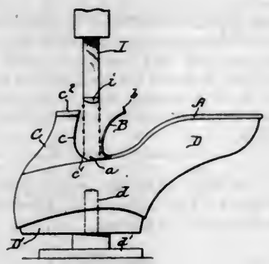
1. In a machine of the character described, the combination with an adding mechanism, of recording mechanism including keys operating said mechanisms to record and accumulate the value of a minuend, and to record a subtrahend and accumulate the value of the complement thereof, said mechanisms including means for eliminating the excess value incident to such accumulation and for recording the fact of such elimination, and also including means for accumulating the amount of the deficit incidental to subtraction by addition and for recording the fact of such accumulation.

1,782,758. FAUCET SCREEN. JOHN H. GAVIN, Chicago, Ill., assignor to The Chicago Faucet Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 20, 1926. Serial No. 89,554. 10 Claims. (Cl. 251—167.)



1. A valve comprising a body having inlet and outlet chambers, an apertured wall separating said inlet and outlet chambers, and formed to provide a valve seat support, a valve stem housing positioned in said body and having a lower end extending adjacent the apertured wall, means for securing said housing in operative position, and devices positioned in the seat support in said wall and clamped thereagainst by the housing formed to provide a flanged valve seat and a baffle to strain the fluid passing to valve seat.

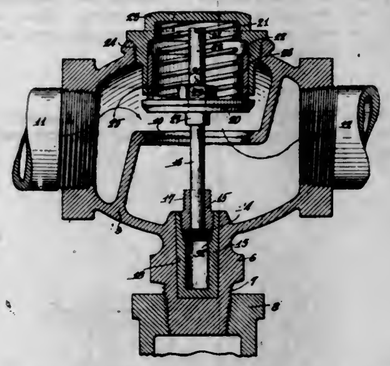
1,782,759. ART OF MAKING SHOES. JOHN A. KELLY, Brooklyn, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 7, 1925. Serial No. 21,270. 7 Claims. (Cl. 12—142.)



1. That improvement in the art of making shoes which consists in cutting into one side of the heel portion of a sole to a depth less than the thickness of the sole and to a desired configuration, and then splitting the heel portion of the sole crosswise of the depth cut to produce a flap integral with the sole.

1,782,760. EMERGENCY CARTRIDGE-TYPE SHUT-OFF VALVE. LUTHER D. LOVEKIN, Ardmore, Pa., assignor to Kitson Company, Philadelphia, Pa., a Corporation of West Virginia. Filed Oct. 13, 1927. Serial No. 225,943. 11 Claims. (Cl. 137—162.)

1. In a fuel cut-off valve for insertion in the fuel supply line to a boiler, a globe valve body, an extension integral therewith, a disc valve in the body, spring-pressed toward closure, a fusible element inside the extension supporting the disc valve from closure and connections between the boiler and the element adapting the element to heat by

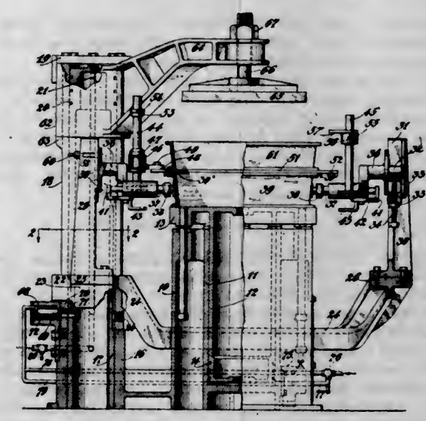


conduction from the heat of the water in the boiler and to soften for operation of the cut-off when the boiler temperature becomes undesirably high.

1,782,761. METHOD OF CANNING PINEAPPLE AND PRODUCT THEREOF. JOHN T. MCCROSSON, Port Au Prince, Haiti. Filed Feb. 8, 1929. Serial No. 338,622. 3 Claims. (Cl. 99—8.)

2. The method of canning pineapple which consists in covering the pineapple slices with syrup in a closed container, removing air from the slices by exhausting the container in a relatively high vacuum, then admitting air to the container to force the syrup into and to saturate the evacuated cells of the fruit, then draining the fruit to remove substantially all but the saturating syrup, then placing the saturated fruit slices into containers without additional syrup or moisture and sealing the latter under vacuum, and then heating the fruit while in said vacuum thus producing steam in the container and thereby sterilizing the interior of the fruit penetrated by the syrup.

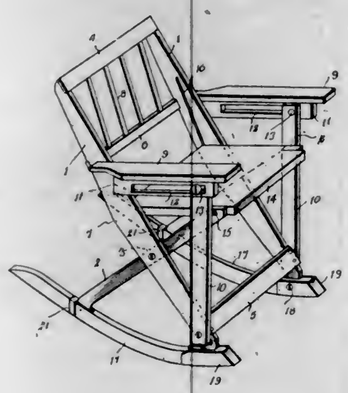
1,782,762. MOLDING MACHINE. THOMAS O. MORRIS, Harrisburg, Pa., and JOHN J. LAWLOR, Plainfield, N. J., assignors, by mesne assignments, to Automatic Molding Machine Corporation, Dover, Del., a Corporation of Delaware. Filed June 1, 1927, Serial No. 195,718. Renewed Feb. 8, 1930. 15 Claims. (Cl. 22—25.)



1. In a molding machine, a table, a frame adjacent the table and having an arm at one end of the table and a

second arm extending back of and to the opposite end of the table, trunnion jaws carried by said arms above the level of the table, and means for raising and lowering the frame, said second arm being downwardly offset intermediate its ends so as not to rise above the level of the table when the frame is raised.

1,782,763. CHAIR. FLOYD M. OVERBEY, Leavenworth, Kans. Filed Jan. 25, 1929. Serial No. 335,066. 1 Claim. (Cl. 155—75.)



A chair or analogous article of furniture comprising side members crossing and pivotally connected at the point of crossing, the rear members being extended to form supporting elements for the back and having longitudinally disposed grooves in their inner sides, a seat pivotally connected to the upper ends of the front members and slidably connected with the upper portion of the rear members through the instrumentality of the grooves thereof, arms pivoted at their rear ends to the upper portions of the rear members, longitudinally slotted strips depending from the arms and braces pivoted at their lower ends to the lower ends of the rear members and slidably connected at their upper ends to the strips depending from the arms.

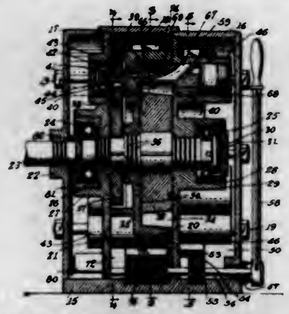
1,782,764. ART OF FELTING. CHARLES D. PARKS, Danbury, Conn. Filed Apr. 9, 1925, Serial No. 21,998. Renewed Feb. 14, 1930. 11 Claims. (Cl. 28—5.)

1. The herein described art of felting which consists in treating fur or the like with an alkaline solution of an oxidizing agent adapted to attack the wax on the fibers thereof, drying the fur, forming a bat out of the fur, treating the resultant bat with an acidic aqueous solution, and felting the fibers of the bat together while applying thereto an acidic aqueous solution.

1,782,765. ART OF FELTING. CHARLES D. PARKS, Danbury, Conn. Filed Apr. 9, 1925, Serial No. 21,999. Renewed Feb. 14, 1930. 11 Claims. (Cl. 28—5.)

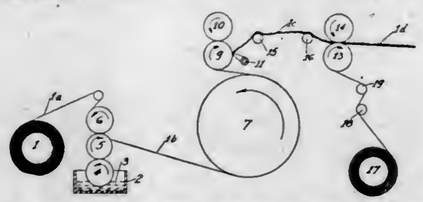
1. The herein described art of felting which consists in treating fur or the like with a solution of a hydroxide of an alkali metal adapted to react with the wax on the fibers thereof and give the latter felting tendencies, drying the fur, forming a fabric out of the fur, felting the fibers of the fabric together, and in treating the fibers of the fabric during the felting operation with a solution having an acid reaction to complete the preparation of the fibers for felting.

1,782,766. ROTARY ENGINE. LEONARD M. RANDOLPH, Newark, N. J. Filed May 15, 1926, Serial No. 109,264. Renewed Aug. 9, 1929. 4 Claims. (Cl. 121—71.)



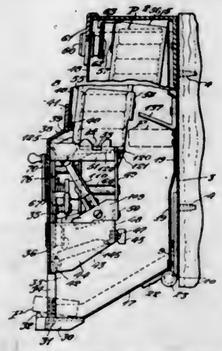
2. A rotary engine comprising a casing, a conical rotor, a plurality of rotary valves actuated in timed relation to said rotor, a ring having openings controlling the inlet to said valves, a second ring having openings controlling the outlet from said valves, and means for actuating said rings simultaneously.

1,782,767. CREPING PROCESS. WILLIAM WALLACE ROWE, Cincinnati, Ohio, assignor to The Paper Service Company, Lockland, Ohio, a Corporation of Ohio. Filed Mar. 5, 1929. Serial No. 344,311. 20 Claims. (Cl. 154—33.)



1. In a creping process the steps of applying a water repellant heat plastic adhesive to a paper web, and then creping said web through the use of said substance to bind it to the creping roll, said substance being tempered between the coating step and the creping step and the proper adhesiveness for the creping step being effected at least in part by temperature control separately of the coating instrumentality.

1,782,768. COIN-OPERATED VENDING MACHINE. FRANK J. ROWSE, Pawtucket, R. I. Filed Nov. 23, 1926. Serial No. 150,360. 15 Claims. (Cl. 194—1.)



15. In a vending machine, the combination of a casing having a delivery-opening in its front wall, coin-operated mechanism for delivering articles from the casing through its delivery-opening, a coin-receiving till hinged to the front wall of the casing at the top of the delivery-opening, and means to lock the till in raised position to adapt it to collect the coins discharged from the operating-mechanism of the machine, said till having its bottom portion arranged to swing down across the rim of the delivery-opening to serve as a closure therefor to indicate that the money has been removed from the machine.

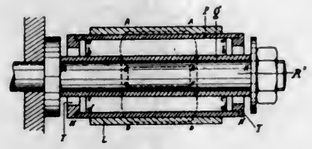
CARNEGIE LIBRARY OF ATLANTA

1,782,769. ROTARY WELL-DRILLING MACHINE. JOHN D. SPALDING, Crafton, Pa., assignor, by mesne assignments, to The National Supply Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 18, 1926. Serial No. 89,058. 8 Claims. (Cl. 255—23.)



1. A rotary well drilling machine comprising a table base, a rotary table mounted on the base and provided with a central bore, a spider positioned in the bore and having a single set of lugs, said lugs being adapted to be engaged either with the table or with the base, the engaging of the lugs with the base or table being accomplished solely by movement of the spider.

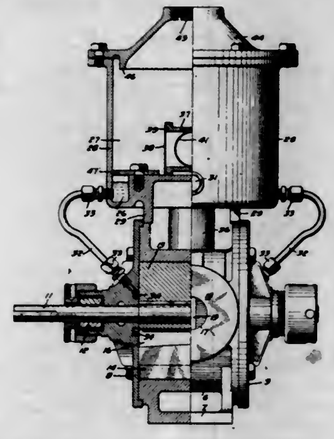
1,782,770. OSCILLATING JOINT. LEON THIRY, Brussels, Belgium. Filed Oct. 26, 1925, Serial No. 64,961, and in Belgium Nov. 25, 1924. 4 Claims. (Cl. 267—54.)



1. An oscillatory pivotal joint for vehicles comprising inner and outer relatively oscillatory coaxial cylindrical elements forming between them an annular space, and an annular rubber cylinder of which in its original unstressed condition, the radial thickness is greater than the width of the annular space between said cylindrical elements, said rubber cylinder being held between said cylindrical elements under radial compressive tension and being in freely deformed state axially in compensation for the radial compression thereof, whereby substantial uniformity in the shortening of the radial element of said rubber cylinder is produced, the opposite ends of said rubber cylinder being free from contact with any end structure.

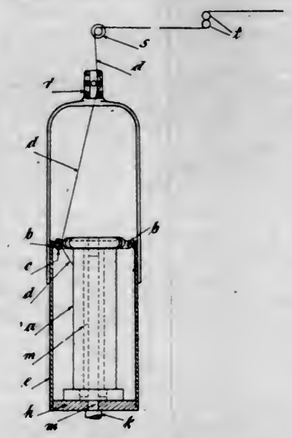
1,782,771. ROTARY PUMP. DEXTER C. BAKER, Oakland, Calif., assignor to Baker-Hansen Manufacturing Co., Alameda, Calif., a Corporation of California. Filed Dec. 7, 1926. Serial No. 153,060. 1 Claim. (Cl. 230—205.)

A rotary pump comprising a cylindrical casing, a substantially solid cylindrical rotor mounted eccentrically in said casing; said rotor having longitudinal radially extending channels cut therein and said channels being closed at one end, vanes in each of said channels adapted to be radially displaced upon rotation of said rotor so as to bear upon the inner contour of said casing; said vanes being tapered at their inner ends, an entrance port in said casing for fluid to be pumped, an exit port for said fluid, annular grooves in said casing in communi-



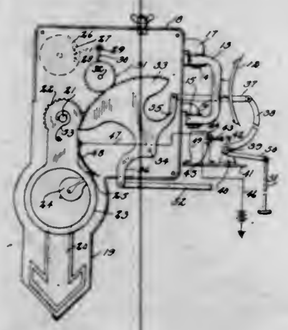
cation with said channels radially inward from said vanes, and means for causing lubricating fluid to flow in said grooves and in said channels.

1,782,772. RING FOR THE UNWINDING OF YARN FROM YARN CONTAINERS IN CABLE-CORD FRAMES OR OTHER TWISTING OR DOUBLING FRAMES. JOHN HENRY BLACKBURN, Preston, and WILLIAM EDWIN BANCROFT, Accrington, England, assignors to Howard & Bullough Limited, Accrington, England. Filed Nov. 8, 1929, Serial No. 405,682, and in Great Britain Dec. 12, 1928. 2 Claims. (Cl. 117—23.)



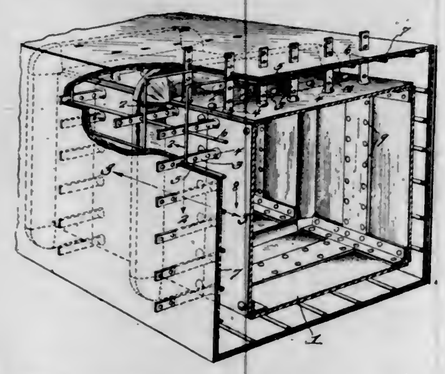
1. In cable cord frames and other like twisting or doubling frames, a revoluble ring, a movable traveller on said ring, a yarn-container within said ring, from which yarn passes to and through said traveller, a mount about said yarn-container to which said ring is connected, a spindle passing through said yarn-container with which said mount is revolved, an extension of said mount, yarn guides in said extension through which yarn from the traveller and container passes, whereby a positive twist is put into the yarn between said guides and a determinable point beyond, and whereby the traveller named operates merely to unwind the yarn from the container aforesaid.

1,782,773. VEHICLE DIRECTION INDICATOR. ANTHONY CHISLOCK, Stamford, Conn. Filed July 22, 1920. Serial No. 379,946. 5 Claims. (Cl. 116—47.)



1. Vehicle direction signal comprising a casing adapted to be attached to a vehicle, an extension for said casing, a signal arm in shape of an arrow having transparent side walls pivotally arranged in said casing, a lamp in said arm, a plurality of teeth formed at the upper rounded end of said arm near its pivot point, a toothed segment movably arranged in said casing in mesh with the teeth on said arm, an acoustic signal, means for operating said signal upon the operation of said segment, mechanically operated means for operating said segment from the driver's seat, and a means for returning said arm into its normal position of rest after each operation.

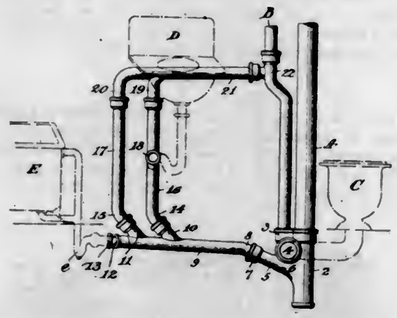
1,782,774. WALL COVERING AND SUPPORT THEREFOR. WILLIAM M. CONNERY, Philadelphia, Pa. Filed May 18, 1928. Serial No. 278,879. 7 Claims. (Cl. 137—75.)



1. The combination with a flue or other wall comprising metal plates, of fastening means having heads for securing the several plates together, a covering, and means carried by the heads to support the covering.

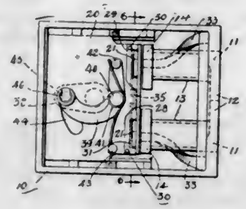
1,782,775. WASTE AND VENT FITTING. JOSEPH J. CROTTY, New York, N. Y., assignor to The Central Foundry Company, New York, N. Y., a Corporation of Maine. Filed Sept. 28, 1928. Serial No. 308,034. 2 Claims. (Cl. 4—211.)

1. In a waste and vent system a unitary horizontal fitting having an angled end adapted to cooperate with an angled extension of a vertical waste stack, a bell at its opposite end in communication with the discharge from a plumbing fixture and a plurality of intermediate branches extending throughout their lengths at an acute angle to the axis of the fitting and having their end faces at a complementary angle to said axis, and vertically disposed vent and waste pipes having angled lower ends and adapted to co-



operate with said branches, the arrangement being such that water discharged into said waste pipe and air drawn through said vent flow freely without abrupt changes in direction into said waste stack.

1,782,776. ROTARY BOLT LOCK. FRANCIS J. DOWLING, New York, N. Y., assignor to Francis Keil & Son, Inc., New York, N. Y., a Corporation of New York. Filed June 17, 1925, Serial No. 37,658. Renewed Nov. 15, 1927. 31 Claims. (Cl. 70—46.)



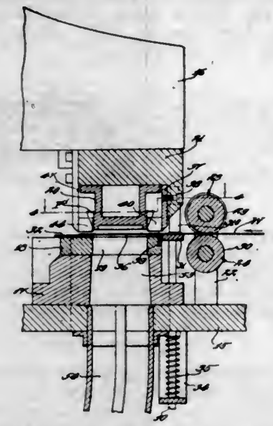
1. In a lock, the combination with a rotatable bolt having a follower, of means for causing the operation of the bolt comprising a carrier movable with the bolt endwise along the lock said bolt being rotatable with respect to the carrier, and a cam which cooperates with said follower to cause rotation of the follower as a result of the endwise movement thereof and the carrier, the cam being dissociated from the bolt.

30. In lock construction, in combination, a casing, a bolt having at its outer end means projecting therefrom adapted to enter and interengage with a strike, means for moving said bolt out of said casing and for rotating said bolt, said bolt having adjacent its inner end means responsive to said actuating means for coaction in effecting rotation of said bolt, and a rotatable sleeve journaled upon said bolt intermediate of said projecting means and said responsive means.

1,782,777. MACHINE FOR FORMING ARTICLES FROM SHEET MATERIAL. BERNARD M. FINE, Philadelphia, Pa., assignor to Sanitary Products Corporation of America, Philadelphia, Pa., a Corporation of Virginia. Filed Jan. 19, 1927. Serial No. 162,083. 5 Claims. (Cl. 93—47.)

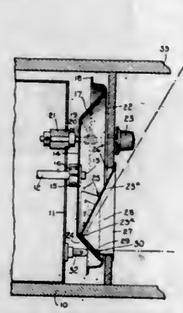
1. In a machine for forming articles from blanks of sheet material, the combination with means for slitting a web of material longitudinally, of means for cross-cutting

said web, said slitting and cross-cutting means cooperating to divide said web into individual blanks, and dies



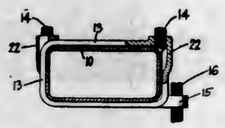
moving simultaneously with said cross-cutting means for forming said blanks into articles, said cross-cutting means being carried by one of said dies.

1,782,778. RADIO DIALING DEVICE. JOSEPH A. FLANZER, Brooklyn, N. Y., assignor to Technidyne Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 14, 1928. Serial No. 305,877. 18 Claims. (Cl. 116—124.4.)



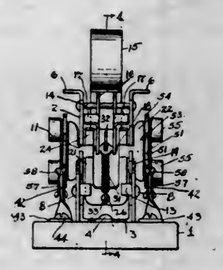
1. In a radio broadcast receiver, in combination with a rotatable control member thereof, of an indicator dial including an outwardly dished portion carrying a continuous series of dialing markings, said portion being located below the axis of the dial and angularly disposed to the normal line of observation whereby said markings may be viewed over a wide angle above said normal line.

1,782,779. FITTING FOR ELECTRICAL-CONDUIT SYSTEMS. JAMES M. G. FULLMAN, Sewickley, Pa., assignor to National Electric Products Corporation, New York, N. Y., a Corporation of Delaware. Filed May 15, 1929. Serial No. 363,121. 9 Claims. (Cl. 247—27.)



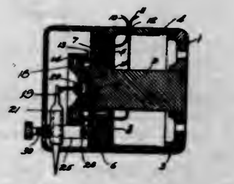
1. In a conduit system for electrical distribution having fittings adapted for association with the conduits, each fitting comprising in combination, means for receiving and holding a conduit, and means for variably adjusting and suporting the fitting at desirable variable heights above a supporting floor slab.

1,782,780. SAFETY SNAP SWITCH. FRED F. HAFEMEISTER, Cleveland, Ohio, assignor to The Cleveland Switchboard Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 19, 1924. Serial No. 750,928. 2 Claims. (Cl. 200—67.)



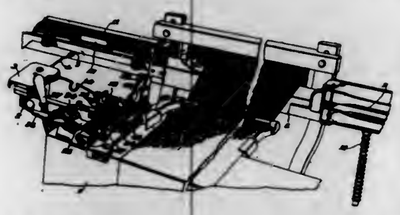
1. An electric switch comprising a base, parallel switch supports extending upwardly from said base, a U-shaped member the upper ends providing lever arms, and having lateral extensions at intermediate positions on its side members, detachably engaged within journals formed centrally in the midportions of said parallel supports, a movable switch contact member supported on one of said extensions, stationary contact members adapted to be engaged by said movable member, a switch operating lever pivoted in said supports above said U-shaped member formed of parallel arms each having outwardly projecting spaced ears, a collar pivotally supported on the free end of said lever, a guide rod extending throug said collar and adapted to seat upon the base of said U-shaped member, and a compression spring surrounding said guide member between said U-shaped member and said collar and adapted to move said U-shaped member and operating lever in opposite directions when the upper end of said spring is moved past dead center by said operating lever and when the upper end of the U-shaped member is also moved by the outwardly projecting ears on said operating lever.

1,782,781. REPRODUCING DEVICE. JURJEN S. HIGH, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 24, 1927. Serial No. 201,049. 4 Claims. (Cl. 179—100.41.)



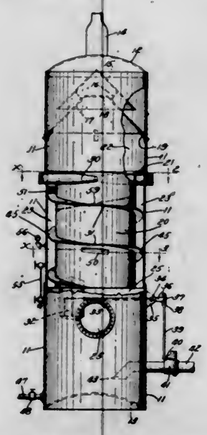
1. In a pick-up device, the combination between a closed-circuit primary coil mounted for motion in a magnetic field, a secondary coil in operative relation thereto, means comprising an actuable needle holder for moving said primary coil in said field, and adjustable damping means independent of said needle holder for controlling said movement.

1,782,782. WEFT STOP MECHANISM FOR LOOMS. JOSEPH B. JACKSON, Milford, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Mar. 14, 1930. Serial No. 435,906. 14 Claims. (Cl. 139—371.)



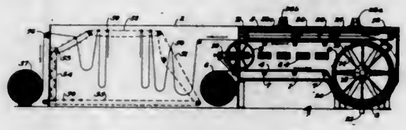
1. A weft stop motion for looms employing two shifting shuttle boxes at one end of the lay and a single detecting shuttle box at the other end of the lay and two shuttles for laying two single picks of filling alternately in the sheds, the combination of a filling feeler mounted to enter the single detecting shuttle box and detect the condition of the filling on the detecting beats, a single stop controller moved to stopping position by the feeler on detection of substantial exhaustion of filling in either one of the shuttles when it is in the single shuttle box and remaining in said position during the succeeding detecting beat when the second shuttle is in the single shuttle box, and means rendered operative to effect loom stoppage when the shuttle containing the substantially exhausted filling has been returned to the single detecting shuttle box.

1,782,783. CRUDE-OIL AND NATURAL-GAS SEPARATOR. MEINHARD H. KOTZEBUE, Tulsa, Okla., assignor to Trumble Gas Trap Company, a Copartnership consisting of Francis M. Townsend, Milton J. Trumble, and A. J. Gutzler. Filed Sept. 22, 1924. Serial No. 739,169. 3 Claims. (Cl. 183—2.7.)



3. In an oil and natural gas separator, a cylindrical outer shell, an inner shell of shorter dimensions than the outer shell spaced apart from the outer shell forming a separating chamber therebetween, a division wall at the upper end of the inner shell extending outwardly therefrom to the outer shell, a spiral flange on said inner shell extending outwardly therefrom to form said separating chamber into a spiral passage for the gas therein, the outer edge of said flange being spaced apart from the outer shell, means for introducing an oil and gas mixture tangentially into the upper portion of the separating chamber, gas outlet means in the upper end of said outer shell, and float-operated means for discharging oil from the lower portion of the outer shell.

1,782,784. REENFORCED FILTER PAPER AND PROCESS OF MAKING SAME. FRED W. MANNING, Berkeley, Calif., assignor, by mesne assignments, to Filter Fabrics, Inc., Boston, Mass., a Corporation of Massachusetts. Filed Apr. 11, 1927. Serial No. 182,926. 19 Claims. (Cl. 92—40.)

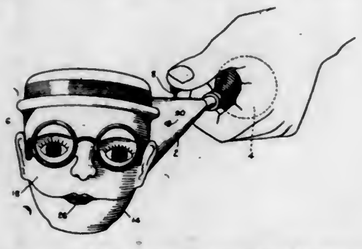


1. The method of making a filter sheet, which comprises precipitating a treating material upon a fabric by passing a conveying fluid containing the treating material through the fabric and thereafter passing a treating fluid through the filter sheet thus formed.

1,782,785. PROCESS OF MAKING FILTER PAPERS AND FILTER FABRICS. FRED W. MANNING, Beverley Hills, Calif., assignor, by mesne assignments, to Filter Fabrics, Inc., Boston, Mass., a Corporation of Massachusetts. Filed Nov. 29, 1927, Serial No. 236,579. Renewed Sept. 30, 1930. 17 Claims. (Cl. 92—39.)

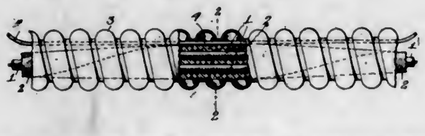
1. In a method of preparing a filter paper, a step consisting of dispersing cellulose fibres in an inert liquid of sufficiently high surface tension to completely separate the fibres for filtration purposes.

1,782,786. TOY. LOUIS MARX, New York, N. Y. Filed Feb. 27, 1929. Serial No. 343,029. 4 Claims. (Cl. 46—40.)



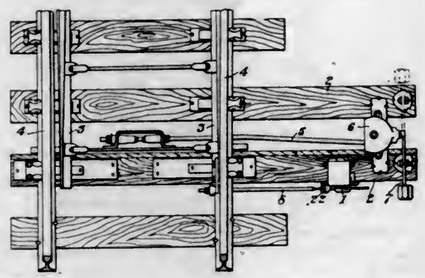
1. A toy comprising a horn, a compressible rubber bulb at one end of the horn, a facial figure having movable features affixed to the other end of said horn, mechanical means for actuating the movable features extending within the horn and including an actuating button located externally of but so situated relative to the compressible bulb that the bulb and the button may both be directly operated by one hand with a single movement thereof in order to simultaneously blow the horn and move the features of the face.

1,782,787. ARMORED CONDUCTOR. JOHN E. MCAULIFFE, Brooklyn, N. Y., assignor to Triangle Conduit Company, Brooklyn, N. Y., a Corporation of New York. Filed May 1, 1928. Serial No. 274,343. 3 Claims. (Cl. 173—267.)



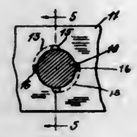
1. The combination with an insulated conductor and a spirally wound metal armor around the insulation of the conductor composed of interlocking turns, of a safety conductor constituting an electric bridge located inside of the armor, insulated from the first-mentioned conductor, and contacting with substantially all of the turns of the armor, said armor tightly embracing said insulated conductor and said safety conductor.

1,782,788. ELECTRIC LOCK. WILLIAM C. MCWHIATER, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Jan. 8, 1930. Serial No. 419,289. 14 Claims. (Cl. 246—160.)



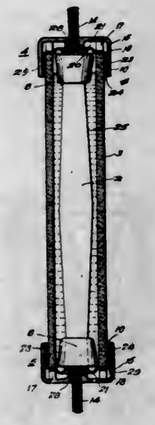
1. A locking device for railway traffic controlling apparatus comprising a locking dog, yieldable means for maintaining said dog in locking engagement with a member movable with said apparatus, manually operable means for moving said dog out of engagement with said member against the action of said yieldable means, a latch for controlling the operation of said manually operable means, electromagnetic means for actuating said latch to release said manually operable means, means actuated by said yieldable means for controlling the energization of said electromagnetic means, and manually operable means for rendering said yieldable means ineffective.

1,782,789. GRATING. NATHAN MICHELMAN, Brooklyn, N. Y. Filed Nov. 30, 1928. Serial No. 322,651. 2 Claims. (Cl. 189—10.)



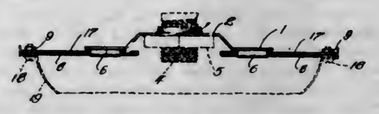
1. A grating comprising a plurality of horizontal bars, each having a plurality of openings in spaced relation, an inner groove formed in said openings, and a peripheral recess formed in the wall of each opening in communication with said groove, a series of vertical bars, a plurality of protuberances on each of said vertical bars adapted to be entered into the recesses of said horizontal bar openings and to be rotated in the groove thereof, and a wire entered into said recess to lock the vertical and horizontal bars at their points of intersection.

1,782,790. INSULATOR. FREDERIC H. MILLER, Wilkinsburg, Pa., and RAY P. JACKSON, Berkeley, Calif., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed June 16, 1928. Serial No. 285,938. 4 Claims. (Cl. 173—318.)



2. A suspension insulator comprising a tubular structure, an insulating tension element therein, terminal means secured to said element including an end cap element for the tube movably related thereto and yieldable sealing means between and secured to the tube and one of said elements.

1,782,791. ADJUSTABLE FIXTURE STRAP. KARL K. NIELSEN, Chicago, Ill., assignor to Alcor Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 12, 1929. Serial No. 385,232. 7 Claims. (Cl. 240—85.)



1. A fixture supporting strap comprising a central member, two longitudinally alined extension members slidably guided by the central member for movement toward or away from each other, two friction members each interposed between the main member and one of the extension members, and means associated with each friction member to prevent bodily movement of the latter with respect to the central member, each extension member having a stop formation disposed for engaging the adjacent friction member to limit the sliding of the extension member in one direction with respect to the central member.

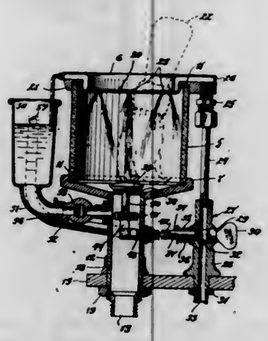
1,782,792. ROTARY BLOTTER. CHARLES HAMILTON PAJEAU, Glencoe, Ill., assignor to The Toy Tinkers, Inc., Evanston, Ill., a Corporation of Illinois. Filed June 7, 1929. Serial No. 369,048. 11 Claims. (Cl. 120—26.)



1. A rotary blotter comprising a carrier having a cylindrical outer wall, a plurality of blotters successively

wrapped around the said carrier wall, each blotter presenting a cylindrical outer face and having its ends in abutting relation to each other, and retaining strips each extending across the abutting end portions of one of the blotters interiorly of that blotter and secured only to that blotter.

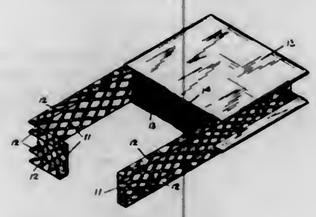
1,782,793. STATIONARY SHAVING CUP. ANGELO PICCIONE, Buffalo, N. Y. Filed May 14, 1928. Serial No. 277,641. 9 Claims. (Cl. 45—136.)



1. A shaving cup of the character described, comprising a cup, a drain for said cup, a drain valve in said drain, a water supply pipe for said cup, a valve in said water pipe, and means operatively connecting said supply valve and drain valve whereby said drain valve is opened when said supply valve is opened and vice versa, said means being adapted to close said supply valve slightly in advance of said drain valve, thereby to permit of completely draining said cup after the flow of supply water has been cut off.

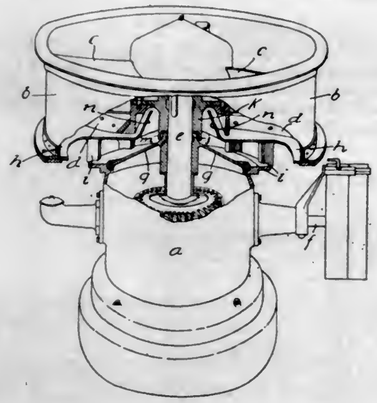
7. A shaving cup including a cup having a drain, means for flushing said cup, a water supply pipe for said flushing means, a valve in said water supply pipe, an auxiliary reservoir arranged adjacent said cup, a drain for said auxiliary reservoir and a pipe connected with said flushing means and discharging into said auxiliary reservoir whereby water is supplied to said auxiliary reservoir when said cup is flushed.

1,782,794. WALL AND PARTITION CONSTRUCTION FOR INSULATING PURPOSES. RYAN SADWITH, Newark, N. J., assignor to Nichols Products Corp., New York, N. Y., a Corporation of New Jersey. Filed Oct. 31, 1928. Serial No. 316,189. 7 Claims. (Cl. 72—16.)



1. An insulating structure comprising a plurality of enclosing sheets, a continuous border band of expanded metal in combination with said sheets, the band being formed to be slidably positioned within the sheets and insulating material confined within said sheets and border band.

1,782,795. MIXING APPARATUS. ALFRED BARTLETT SMITH and CLIFFORD ROSS SMITH, Wolverhampton, England. Filed Sept. 7, 1929, Serial No. 390,913, and in Great Britain Mar. 22, 1929. 4 Claims. (Cl. 259—108.)

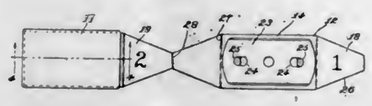


1. Apparatus for treating finely divided materials comprising in combination a pan or container, a shaft rotatable about a vertical axis therein and carrying means for treating the materials on the pan, driving means for the shaft, an upstanding inner wall on the pan around the shaft, a protecting surface surrounding the shaft below said upstanding inner wall of said pan, and means for spacing the base of the pan away from said protecting surface to form discharge passages for leading outside of the machine any materials which may overflow the inner wall of said pan.

1,782,796. PROCESS FOR THE PRODUCTION OF PARTIALLY-HYDROLIZED CELLULOSE ACETATES. SAMUEL ISIDOOR VLES, Arnhem, Netherlands. Filed Oct. 25, 1927, Serial No. 228,696, and in the Netherlands July 20, 1927. 4 Claims. (Cl. 260—102.)

2. A process for the production of partly hydrolyzed cellulose acetate which comprises treating a solution of cellulose triacetate with diluted sulphuric acid at temperatures of about 20° C., for a period of about 6 days.

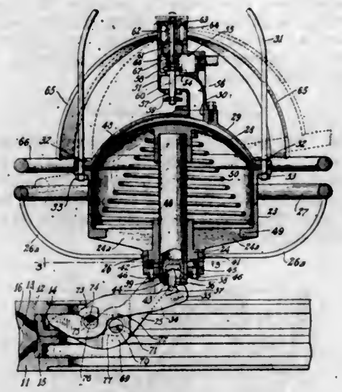
1,782,797. PACKING FOR SAFETY-RAZOR BLADES. DAVID C. WILLIAMS, Medfield, Mass., assignor to Henry F. Huriburt, Jr., Wellesley, Mass. Filed June 13, 1928. Serial No. 285,041. 2 Claims. (Cl. 206—46.)



2. A package for safety razor blades, comprising a closed container having a slot in one end thereof, a strip of paper folded transversely of its length to form alternate blade receiving sections and tab sections of equal length positioned within the container, said tab sections being of reduced width to facilitate detaching a balde and its receiving and supporting section from the strip remaining in the container and certain of said tabs being numbered consectively whereby the user is apprised of the number of blades remaining in the package, blades carried by said strips and supported by said blade receiving sections longitudinally of said strip with the edges thereof adjacent the edges of the strip, said blade receiving section having

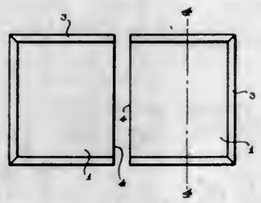
a width in excess of the width of the blade to protect the edges thereof and the hands of the user after removal from the remained of the strip and a length substantially equal to the length of the blade, means for detachably securing a blade to said blade receiving sections, and a tab protruding through said slot to facilitate withdrawal of said strip and supported blades as desired.

1,782,798. SPREADER DEVICE FOR OPENING VULCANIZING MOLDS OR THE LIKE. GEORGE F. WILSON and HARRY E. WANER, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Nov. 25, 1927. Serial No. 235,446. 8 Claims. (Cl. 18—2.)



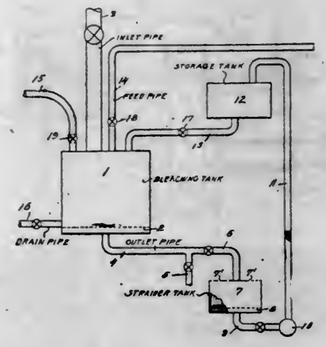
1. Apparatus of the character described comprising a pair of jaw members, coacting fulcrum means on the two jaw members having their fulcrum axis relatively close to the work-engaging portions of the jaw members for high mechanical advantage and coacting fulcrum means on the two jaw members having their fulcrum axis farther from the said work-engaging portions for actuating the latter at relatively high speed and with a relatively wide range.

1,782,799. METHOD OF FORMING LIDS FOR CIGAR BOXES. ALLAN A. ADAMSON, Rochester, N. Y., assignor, by mesne assignments, to Autokraft Box Corporation, Lima, Ohio, a Corporation of Delaware. Filed July 17, 1928. Serial No. 293,402. 2 Claims. (Cl. 93—54.)



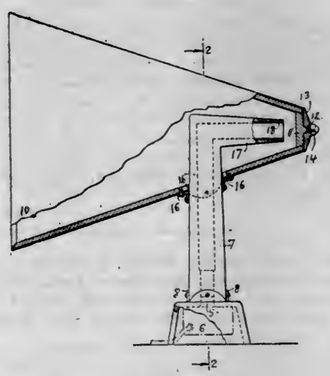
2. The method of forming lids for cigar boxes which comprises providing a rigid blank of the size sufficient to form two lids, providing a thin flexible blank to project around the outer edges of said first mentioned blank, applying the thin blank to the rigid blank to cover one face of the latter and edge portions of the other face, and dividing the article thus obtained into two covers.

1,782,800. METHOD OF BLEACHING PULP. DENNIS CUSHMAN ANDREWS, Cloquet, Minn., assignor to The Northwest Paper Company, Cloquet, Minn., a Corporation of Minnesota. Filed June 23, 1926. Serial No. 117,974. 24 Claims. (Cl. 8—2.)



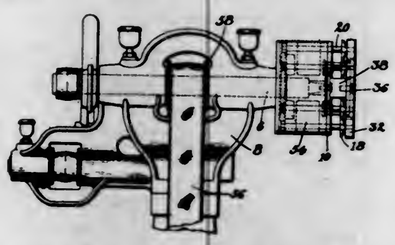
1. The method of bleaching vegetable fiber pulp which comprises flowing bleach liquor through a relatively quiescent thick slurry of said pulp at normal pressure and temperature and keeping said bleach liquor in contact with said pulp until said pulp reaches the desired color.

1,782,801. RADIO LOUD-SPEAKER. FREDERICK BAEHN, Jersey City, N. J. Filed Feb. 16, 1929. Serial No. 340,508. 2 Claims. (Cl. 181—27.)



1. In a radio loud speaker, the combination of a chambered base adapted to carry a speaker unit, and provided with an opening at the top, a leader tube extending upward from the base to lead the sound waves upward, a horn of conical shape with the smaller end closed by a hard baffle plate, the horn having an opening at one side, through which the leader tube extends, a bracket securing the leader tube and horn together at said opening whereby the horn is supported on the leader tube, the leader tube having an extension at its upper end that projects rearward in the axis of the horn and ends a short distance in front of the said baffle plate whereby the sound waves are deflected to pass forward and out of the horn, said baffle plate comprising a disk with a beveled edge inserted in the horn end with a threaded stem extending outward from the disk, a collar on the stem that engages the end of the horn, and a nut on the stem that presses on the collar to draw the disk against the inner wall of the horn.

1,782,802. BURNISHING MACHINE. LEWIS J. BAZZONI, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 29, 1929. Serial No. 335,772. 30 Claims. (Cl. 12—77.)



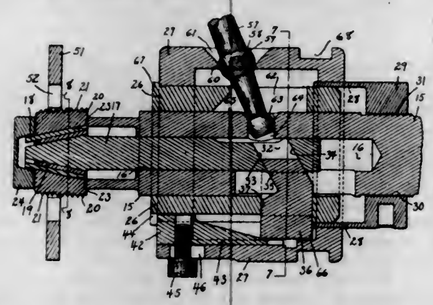
1. In a heel burnishing machine, a rotating burnishing tool comprising concave and convex work-engaging elements having the same direction of rotation but constructed and arranged to burnish a piece of work alternately in opposite directions.

1,782,803. PRESSURE INDICATOR. JULIUS H. BECKER, San Francisco, Calif. Filed Feb. 18, 1929. Serial No. 340,678. 6 Claims. (Cl. 152—11.5.)



2. In a fluid pressure indicating device, a body member formed with a fluid pressure chamber, a pressure responsive element coacting with the chamber and movable in one direction by fluid pressure, resilient means urging the pressure responsive element in the opposite direction, a fitting on the body member adapted to be applied to the article containing fluid pressure to be indicated, a passage leading from the fluid pressure chamber to the fitting, and means for continuously diverting fluid from the fluid pressure chamber.

1,782,804. COLLAPSING TAPER-THREAD TAP. ALBERT F. BREITENSTEIN, New Haven, Conn., assignor to The Geometric Tool Co., New Haven, Conn, a Corporation. Filed May 7, 1928. Serial No. 275,661. 10 Claims. (Cl. 10—145.)

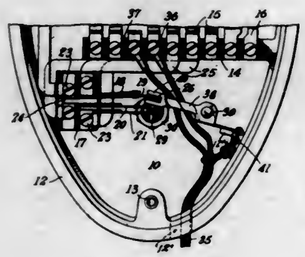


1. In a collapsing taper-thread tap, the combination with a tap-body, radially-movable chasers mounted therein, a plunger located axially within the tap-body for operating the chasers and having two inclined parallel cam-surfaces, an axially-movable dog-carrying sleeve mounted upon the tap-body, an axially-movable tripping-sleeve bearing upon the said dog-carrying sleeve, a combined locking and taper-controlling dog carried by the said dog-carrying sleeve and having two parallel forwardly-inclined operating-faces co-acting with the cam-surfaces of the said plunger for operating the same, a taper-controlling cam carried by the said tripping-sleeve and co-acting with the dog for positively moving the same bodily inward, and a locking-abutment co-acting with the dog for maintaining the chasers in their thread-cutting positions.

1,782,805. CLEANING POWDER. FRANK C. BROEMAN, Cincinnati, Ohio, assignor to Arthur Silbersack, Cincinnati, Ohio. Filed May 11, 1928. Serial No. 277,104. 1 Claim. (Cl. 87—5.)

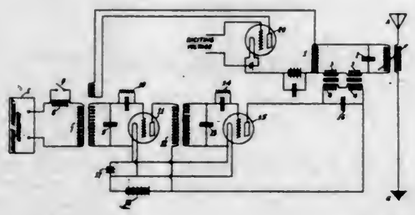
A composition containing a mixture of ingredients substantially as follows: 15% finely divided particles of wood, such as sawdust or wood flour, 2% bleaching powder, such as chlorinated lime, 20% potassium chloride and 63% sodium acid sulphate.

1,782,806. TELEPHONE-INSTRUMENT SWITCHING. JOSEPH O. CADIEUX, Meriden, Conn., assignor, by mesne assignments, to Connecticut Telephone & Electric Company, Inc., Meriden, Conn., a Corporation of Delaware. Filed Apr. 29, 1929. Serial No. 359,124. 14 Claims. (Cl. 179—159.)



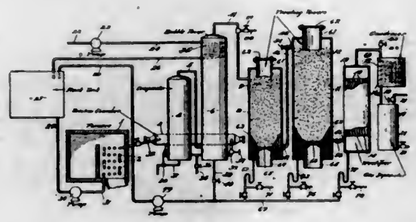
1. In a telephone, an insulating casing having a projecting boss, a number of switch springs supported thereon, a pivoted hook lever projecting through the casing, a jack lever pivoted within the casing and having one arm coacting with said hook lever, a receiver adapted to be supported on said hook lever, and having a cord connected to said jack lever.

1,782,807. FREQUENCY-REGULATING SYSTEM. HENRI CHIREIX, Paris, France. Filed Sept. 8, 1925, Serial No. 55,086, and in France Sept. 10, 1924. 8 Claims. (Cl. 250—36.)



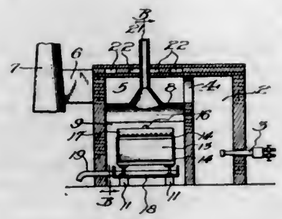
1. A constant frequency generating system, comprising an oscillation generator and a constant frequency heterodyne arranged to beat therewith for producing a beat frequency, an oscillatory circuit tuned to said beat frequency, rectifying means associated with said beat frequency circuit, and frequency compensating means included in the generator output circuit controlled by the rectified beat frequency currents for affecting a constant relationship between the heterodyne constant frequency and the generator frequency.

1,782,808. PROCESS FOR TREATING HYDROCARBONS. ROY CROSS, Kansas City, Mo., assignor to Cross Development Corporation, Wilmington, Del., a Corporation of Delaware. Filed Jan. 20, 1926. Serial No. 82,465. 4 Claims. (Cl. 196—28.)



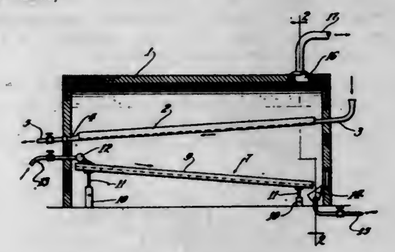
1. A process of refining hydrocarbon vapors or gases, comprising the steps of directing the fractionated vaporous material from the refluxing stage of a cracking system through a bed of metal compound having an affinity for the sulphur compounds of the hydrocarbon vapors, passing the vapors thence through a bed of highly adsorbent material having a purifying effect on the vapors and effecting insubstantial desulphurization relative to that effected by said metal compound.

1,782,809. PROCESS AND APPARATUS FOR TREATING OIL. JEAN DELATTRE-SEGUY, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed June 28, 1926. Serial No. 118,980. 4 Claims. (Cl. 196—128.)



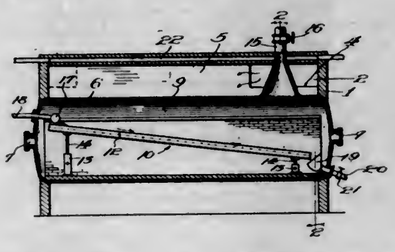
1. A process for distilling hydrocarbon oils which comprises continuously flowing the oil by gravity in a relatively thin film over an unheated inclined surface, applying a distilling heat solely to the upper surface of said film without heating the film from below, and removing and condensing the evolved vapors.

1,782,810. PROCESS AND APPARATUS FOR DISTILLING LIQUIDS. JEAN DELATTRE-SEGUY, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed June 28, 1926. Serial No. 118,981. 5 Claims. (Cl. 196—128.)



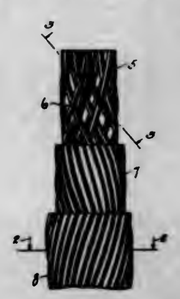
1. A process of distilling hydrocarbon oil, consisting in passing the liquid to be distilled in a relatively wide shallow stream over an inclined plate and simultaneously heating the upper surface of such film by heat radiated from a hot molten bath.

1,782,811. PROCESS OF TREATING HYDROCARBONS. JEAN DELATTRE-SEGUY, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed June 28, 1926. Serial No. 118,982. 7 Claims. (Cl. 196—128.)



2. The method of cracking hydrocarbon oils which comprises flowing the oil in a relatively thin film through a cracking zone maintained under superatmospheric pressure and applying to the flowing film a cracking heat radiated from a heating surface spaced away from the film whereby carbon deposition within the cracking zone will not interfere with the transfer of heat to the film.

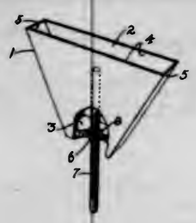
1,782,812. ELECTRICAL CONDUCTOR. ABRAHAM BERNARD DIBNER, Peekskill, N. Y. Filed Jan. 21, 1927. Serial No. 162,479. 2 Claims. (Cl. 173—13.)



1. A conducting cable, comprising a core formed of a plurality of wire strands interlaced with one an-

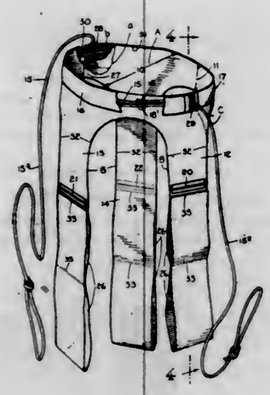
other to form an open work structure having uniform strength and maximum resistance to crushing, and an outer layer comprising a plurality of wire strands wound about said core in the direction of its longitudinal axis.

1,782,813. MOLD. ANGELO S. FERREIRA, San Jose, Calif. Filed July 24, 1929. Serial No. 380,607. 1 Claim. (Cl. 107—19.)



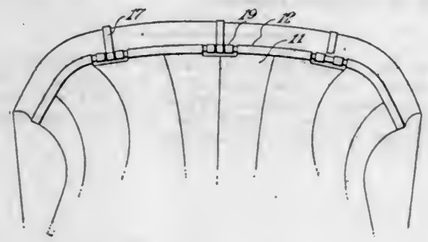
A mold of the character described comprising a body portion or receptacle open at one end and having inner surfaces inclined inwardly toward the other end, and means formed in the last mentioned end for releasably holding a supporting element intermediate its ends whereby a liquid or plastic mass may be solidified on the supporting element within the body portion and then the element and mass removed as a unit through the open end of the body portion.

1,782,814. OBSTETRICAL EXTRACTOR. EUGENE FROEHLICH, New York, N. Y. Filed Jan. 3, 1927. Serial No. 158,490. 11 Claims. (Cl. 128—361.)



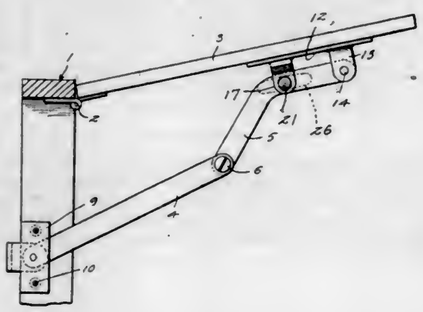
1. An obstetrical extractor comprising a flexible envelope structure adapted to be applied over the child's entire head and chin, said envelope structure including a section contractible about the base of the child's head and forming an enveloping receptacle for said head, and a tractor section connected to and depending from said head receiving section.

1,782,815. SEAT COVER. WALTER L. FRY, Scarsdale, N. Y., assignor, by mesne assignments, to Wil-Fry Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 12, 1928. Serial No. 318,649. 6 Claims. (Cl. 155—182.)



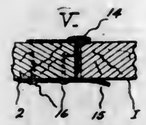
1. A cover for the back rest of a seat of a shape and size to lie on and cover the front of said back rest, a strain distributing member of separable sections connected by couplings associated with the upper part of the cover for substantially its full width, and clips connected to the said couplings and adapted to be secured to a support.

1,782,816. DOOR-HOLDING DEVICE. JOHN P. GRIMLEY, Harrison, N. J., assignor to Samuel J. Rawlings, Kearny, N. J. Filed Nov. 26, 1929. Serial No. 409,904. 2 Claims. (Cl. 292—263.)



2. A door holder comprising a pair of pivotally connected links, one thereof being bent intermediate its ends forming an obtuse angle, means for pivotally securing the free end of the angled link to a door, means for pivotally securing the free end of the other link to a door frame, said angled link being so disposed with relation to said door as to bring the angled portion adjacent thereto into substantially parallel relation therewith when the door is opened, said last mentioned portion of the angled link having an aperture formed therethrough adjacent the angle in the link, a transversely slotted sleeve mounted vertically on the door adjacent the point of connection therewith of the angled link designed to receive in the slot thereof the apertured portion of the angled link, a bolt slidable in said sleeve and having a head with an inclined top surface adapted to extend into the slotted portion of the sleeve, a spring housed in the sleeve and surrounding the bolt and normally urging the bolt upwardly, and a pin member carried by the bolt for maintaining the same in a desired position.

1,782,817. COMBINATION FLOOR BOARD. GEORGE E. GRIMM, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 12, 1926. Serial No. 80,770. 1 Claim. (Cl. 296—1.)



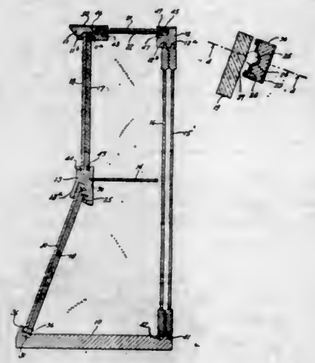
In a motor vehicle having a battery, a floor board above the battery, said floor-board being formed in two independent sections, one of which is immediately above the battery and readily removable, a flange on one of said sections for engaging the upper edge of the adjacent section, and spring means independent of the flange on one of said sections for urging the other section against said flange.

1,782,818. ARTIFICIAL EYE AND METHOD OF APPLYING EYELASHES THERETO. LEO J. GRUBMAN, Belle Harbor, N. Y., assignor to Markon Manufacturing Co. Inc., New York, N. Y., a Corporation of New York. Filed Feb. 7, 1927. Serial No. 166,871. 14 Claims. (Cl. 46—40.)



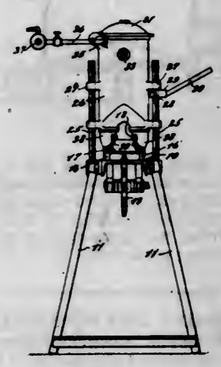
1. In an artificial eye, an eye shell of resilient material having a closed slit in its wall, and eyelashes having parts engaged through said slit and fixedly clamped between the opposed edges thereof by the inherent resiliency of the wall structure tending to close said slit.

1,782,819. CONSTRUCTION FOR DISPLAY CASES. HERMAN HANSEN, New York, N. Y., assignor to Francis Keil & Son, Inc., a Corporation of New York. Filed Dec. 29, 1925. Serial No. 78,079. 5 Claims. (Cl. 312—138.)



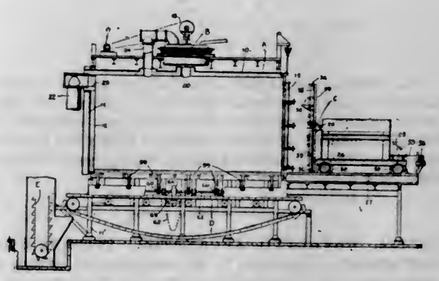
4. In construction for display cases and the like, in combination, a case having an opening therein adapted to be closed by at least two inclined panels adapted to slide into overlapping relation, the uppermost of said panels having an upper edge portion extending beyond the upper edge portion of the lower of said panels, an elongated member carried by said case adjacent the upper edge of the lower panel and arranged in substantial alinement with the latter, said member having a longitudinally extending groove for guiding a plurality of balls, a plurality of balls in said groove and interposed between said member and the lower face of the upper edge portion of said upper panel, means comprising an elongated strip for holding said balls in spaced relation, means associated with said groove member for holding said strip so that its plane extends substantially parallel to the plane of the upper panel, and anti-friction means for engagement with an upper portion of said lower panel.

1,782,820. CEMENT SPREADER. RALPH M. HARDGROVE, Allentown, Pa., assignor to Fuller Lehigh Company, Fullerton, Pa., a Corporation of Delaware. Filed July 1, 1927. Serial No. 202,827. 8 Claims. (Cl. 25—1.)



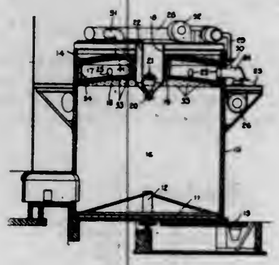
6. In a device for applying a layer of plastic material to objects, a horizontal guide for said objects having means to prevent lateral or vertical movement of said objects, a container for plastic material mounted in proximity to said guide, guides for said container to permit only vertical movement thereof, an exit opening from said container, a portion of which is substantially vertical and located below the tops of said objects as they pass along their guide, and means to cause said objects to pass transversely across said exit opening.

1,782,821. ACID-PHOSPHATE PLANT. INGENUIN HECHENBLEIKNER, Charlotte, N. C., assignor, by mesne assignments, to Chemical Construction Corporation, a Corporation of Delaware. Filed Apr. 14, 1927. Serial No. 183,687. 16 Claims. (Cl. 71—1.)



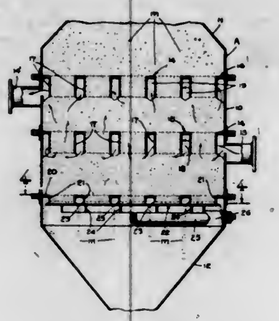
5. In an excavator plant, a den for containing the material to be excavated, a rotary cutter movable into and from said den comprising a disc, and a plurality of cutters mounted on the operative face of the disc, the disc having openings disposed therein whereby the rotation of the disc causes a suction of air from the outer face of the disc towards the operating face thereof.

1,782,822. COMBINED SPRAY DRIER AND BURNER. INGENUIN HECHENBLEIKNER, Charlotte, N. C., assignor, by mesne assignments, to Chemical Construction Corporation, a Corporation of Delaware. Filed May 18, 1927. Serial No. 192,403. 9 Claims. (Cl. 159—4.)



1. A combined spray drying and gas combustion apparatus built into a unitary structure comprising a spray drying chamber having an apertured upper wall, and a combustion chamber disposed immediately thereover for generating and supplying hot gases to said drying chamber through said apertured upper wall.

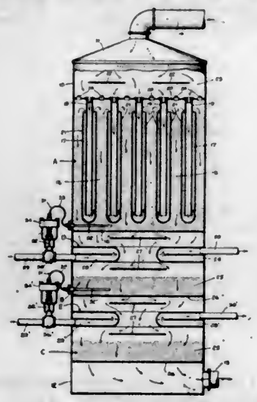
1,782,823. FILTERING AND DUST-COLLECTING APPARATUS. INGENUIN HECHENBLEIKNER, Charlotte, N. C., assignor, by mesne assignments, to Chemical Construction Corporation, a Corporation of Delaware. Filed Apr. 17, 1928. Serial No. 270,602. 11 Claims. (Cl. 183—46.)



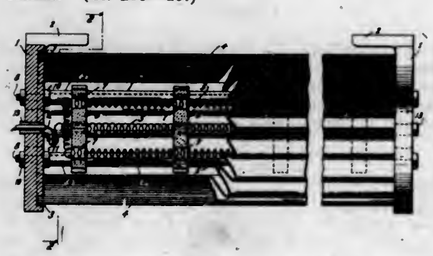
1. A filtering apparatus comprising a holder substantially filled with a granular filter mass, and a grid structure extending across said holder, said grid structure including an orificed plate the orifices of which are provided with means therein adjacent which free spaces are formed in the filter mass.

1,782,824. CATALYTIC APPARATUS. INGENUIN HECHENBLEIKNER, Charlotte, N. C., assignor, by mesne assignments, to Chemical Construction Corporation, a Corporation of Delaware. Filed May 18, 1928. Serial No. 278,867. 11 Claims. (Cl. 23—288.)

1. A converter system comprising a first converter of large heat generating capacity provided with a catalyst and with automatic cooling means for controlling the converter temperatures, a second converter of lower heat generating capacity connected in cascade to the exit end of the first converter, gas cooling means interposed between two converters, and means controlled by the temperature in said first converter for governing the operation of the said gas cooling means so as to regulate the temperature of the gases leaving the first converter and entering the said second converter.

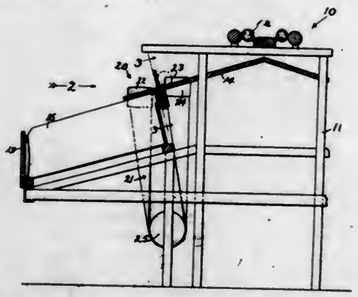


1,782,825. ELECTRIC HEATER. EMIL F. HOLINGER, New York, N. Y., assignor to Hudson Electrical Heating Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 1, 1928. Serial No. 323,149. 2 Claims. (Cl. 219—19.)



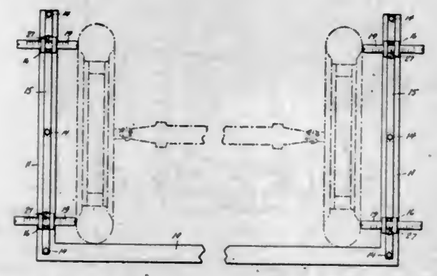
1. The combination, in an electric heater, of end plates correspondingly grooved on their inner faces, a corrugated casing element bent to conform to the outline of said grooves and having its ends nested therein, means for holding said end plates and said casing element in assembled relation, and a resistance element supported in the casing thus formed, but out of electrical contact therewith.

1,782,826. FRUIT DISTRIBUTOR. DANA E. KEECH, Glendale, Calif. Filed Oct. 1, 1929. Serial No. 396,459. 6 Claims. (Cl. 209—73.)



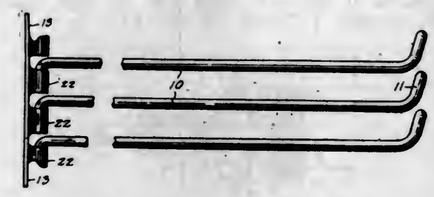
1. In a fruit sizer, the combination of: means for sizing fruit; a bin for receiving the sized fruit; a laterally inclined belt running longitudinally between said sizing means and said bin; a wall disposed alongside a lower edge of said inclined belt, said wall being divided into sections; means upon which said sections are mounted which prevents longitudinal movement of said sections and permits vertical movement thereof so that individual sections may be disposed out of contact with fruit carried on said belt; and means for temporarily retaining said individual sections in such inactive positions.

1,782,827. WHEEL ALIGNER. MARCUS A. LAHR, Tulsa, Okla. Filed Mar. 15, 1929. Serial No. 347,212. 14 Claims. (Cl. 33—203.)



1. A wheel aligner comprising parallel arms, means securing said arms together, scale mounting members slidably secured to one of said arms to move longitudinally therealong, a scale slidably received in each mounting member for longitudinal movement therethrough at right angles to said arm, resilient means for yieldingly holding said scale mounting member in adjusted position on said arm and the scale in adjusted position in said mounting.

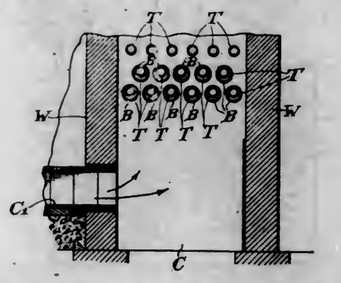
1,782,828. SWINGING-ARM TOWEL RACK. CHARLES A. MOSGROVE, Waterbury, Conn., assignor to The Autoyre Company, Oakville, Conn., a Corporation of Connecticut. Filed Aug. 3, 1929. Serial No. 383,241. 8 Claims. (Cl. 211—96.)



1. A towel rack comprising a plurality of swinging towel supporting arms and a wall plate for pivotally supporting said arms, said wall plate comprising a piece of stamped sheet metal having a plurality of spaced joining strips forming the central portion thereof, and a pair of spaced complementary semi-circular indentations above and below said strips in the side portions, said piece having its central portion rolled outwardly of the plane of the side portions so that said spaced strips form arm supporting bearings and said complementary indentations together form receiving holes for securing means.

1,782,829. HEAT-TRANSFER SYSTEM. ARTHUR E. NASH, Philadelphia, and JAMES S. ALCORN, Cynwyd, Pa., assignors to Alcorn Combustion Company, Philadelphia, Pa., a Corporation of Delaware. Filed Jan. 3, 1927. Serial No. 158,549. 12 Claims. (Cl. 196—116.)

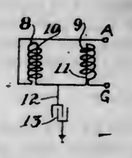
8. In the art of transferring heat to fluid contained in tubes in a zone in which there are hot gaseous products of combustion and in which there exists heat radiated from a primary source heated by said products of combustion, the method of diminishing the rate of application of heat to said fluid which comprises heating each of some of said tubes directly and substantially solely by radiation from an adjacent secondary source heated by convection by the hot gaseous products of combustion and by heat radiated from said primary source, by said secondary source substantially completely shielding each of said last named tubes from absorption of heat directly from the hot gaseous products of combustion throughout substantially the entire longitudinal extent of each of said last named tubes heated by said secondary source, and heating others of the tubes by convection by passing the hot gaseous products of combustion between and beyond said secondary sources.



1,782,830. MANUFACTURE OF STRONTIUM OXIDE. JAMES B. PIERCE, Jr., Charleston, W. Va., assignor to Barium Reduction Corporation, Charleston, W. Va., a Corporation of Delaware. Filed Jan. 29, 1927. Serial No. 164,659. 4 Claims. (Cl. 23—186.)

3. Strontium oxide in the form of flakes.

1,782,831. RADIOSIGNALING. ACE W. SLAGHT, near San Jose, Calif. Filed May 8, 1928. Serial No. 276,027. 1 Claim. (Cl. 250—20.)

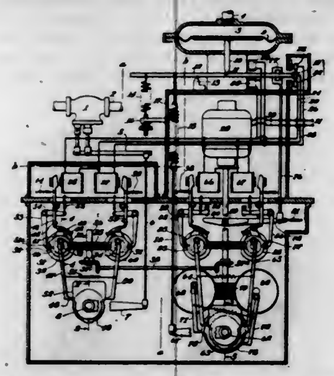


In a radio receiver, a radiant energy collector unit comprising a pair of permanently fixed coils having a predetermined fixed spaced relation, one of said coils having one of its ends connected to the ground terminal of the receiver and its opposite end connected to a conductor extending axially through said coil and connected to ground, the other of said coils having one of its ends connected to the aerial terminal of the receiver and its opposite end connected to a conductor extending axially through the last named coil and connected to the said ground.

1,782,832. REGULATOR. CHARLES H. SMOOT, Maplewood, N. J. Filed Mar. 14, 1929. Serial No. 346,917. 7 Claims. (Cl. 172—239.)

7. In a regulating system adapted to control the position of an element, a regulating device including a balancing member acted upon by controlling forces and by a force varying as a function of the position of said element, a second regulating device including a balancing member acted upon by controlling forces and by a force varying as a function of the position of said element but

delayed with respect thereto, means controlled by said last mentioned device in response to an unbalance of the balancing member thereof for causing a related variation



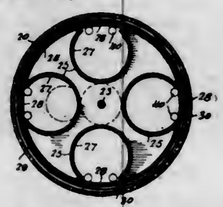
in one of the controlling forces acting upon the balancing member of the first mentioned device, and means for positioning said element upon an unbalance of the balancing member of said first mentioned device.

1,782,833. EYE SET FOR DOLLS. JOHN H. WILHELM, Rockaway Beach, N. Y., assignor to Markon Manufacturing Co. Inc., New York, N. Y., a Corporation of New York. Filed Jan. 19, 1928. Serial No. 247,764. 17 Claims. (Cl. 46—40.)



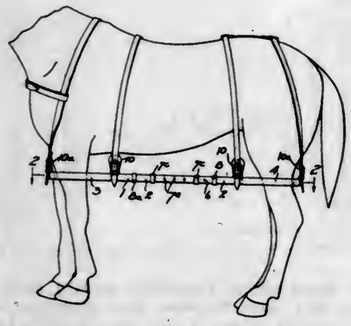
1. An eye set for a doll's head comprising a carrier, eye members movably mounted on the carrier, means connected to the eye members for moving the same between open and closed positions, and means on said carrier for normally checking the closing movement of said eye members and for permitting free closing movement of said eye members when the head has been turned to one side.

1,782,834. APPARATUS FOR RENDERING DISPLAYS VISIBLE FROM ALL SIDES. FRANCISZEK WLODARSKI, Poznan, Poland. Filed Aug. 10, 1928, Serial No. 298,813, and in Poland Oct. 31, 1927. 11 Claims. (Cl. 40—77.)



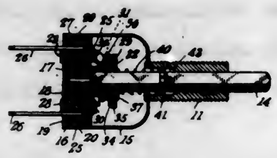
1. A display device for displaying in sequence a plurality of display cards so that each will be simultaneously visible from all sides of the device, comprising a plurality of cylinder segments fixed relatively to each other about an axis, each segment being adapted to support a display card upon its inner surface, means for illuminating the interiors of said segments, another cylinder segment rigidly connected to each of the first-named segments and having a black external surface, said other segments being each provided with a narrow slit, means for rotating all of said cylinder segments about said axis at high speed, a shutter adapted to expose one of said slits at a time, and mechanism for shifting said shutter relatively to said cylinder segments and to said slits whereby said slits are exposed one after the other and said cards become visible in sequence for predetermined intervals.

1,782,835. HOBBLE. WILHELM WÜNSCHE, Detroit, Mich. Filed Jan. 15, 1929. Serial No. 332,659. 1 Claim. (Cl. 54—71.)



A hobble comprising two straps each having a loop formed at one end to encircle a horse's leg, each strap consisting of a single piece at its opposite end, in combination with a coupling member to which the single ends of both straps are so attached that the distance of either or both looped ends from said member may be varied.

1,782,836. ELECTRIC SNAP SWITCH. FRANK A. YOUNG and RAYMOND H. BOARDMAN, Meriden, Conn., assignors, by mesne assignments, to Connecticut Telephone & Electric Corporation, Meriden, Conn., a Corporation of Delaware. Filed Nov. 27, 1928. Serial No. 322,135. 7 Claims. (Cl. 200—63.)

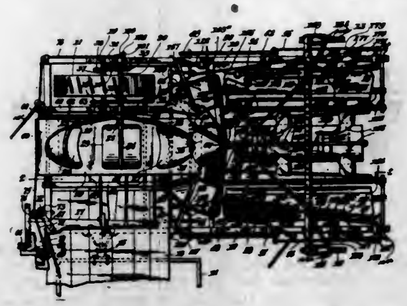


1. A snap switch comprising a supporting sleeve, a housing carried thereby, an insulating disc closing the rear end of said housing contacts carried by said disc, an operating shaft rotatably supported at the rear in said disc and near the front supported in said sleeve, a rotatable switch member mounted on said shaft but insulated therefrom and a spring pressed ratchet member insulated from said abaft and co-acting with said switch member.

1,782,837. SHEAF-SHOCKING MACHINE. NICHOLAS PAUL BOYCHUK and JOHN PAUL BOYCHUK, Edmonton, Alberta, Canada. Filed Apr. 5, 1926. Serial No. 99,915. 57 Claims. (Cl. 56—415.)

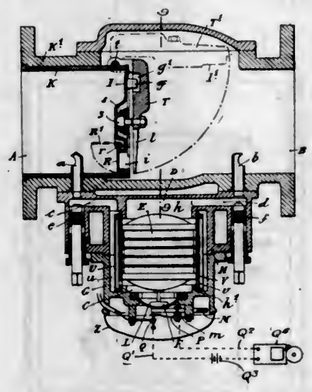
1. The combination with a binder having an arm carried by the binder knotter wheel shaft, of a shocking machine equipped with a conveyor mechanism including

a rotatable shaft carrying a plurality of radially disposed pans adapted to receive the sheaves discharged from the binder, a drive shaft, a normally disengaged clutch for establishing a drive connection between the



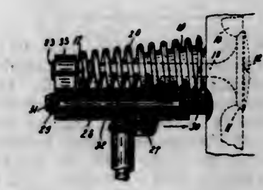
first mentioned shaft and the drive shaft, means controlled by said arm for engaging said clutch concurrently with delivery of a sheaf to one of said pans and means for automatically disengaging said clutch after a predetermined operation of the shaft carrying said pans.

1,782,838. APPARATUS FOR SIGNALING CONDITION OF FLUID IN CONDUITS. EUGENE BRILLIÉ, Paris, France. Filed Feb. 17, 1928, Serial No. 255,141, and in France Mar. 21, 1927. 5 Claims. (Cl. 169—23.)



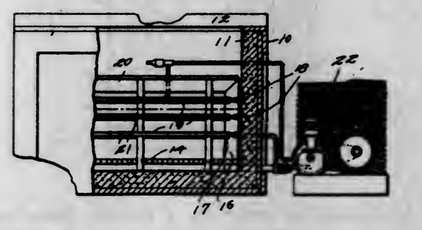
1. In apparatus for indicating the change of condition of a fluid from rest to flow, the combination of: a conduit; a fluid-operated member; a casing containing said fluid-operated member; means for connecting one side of said fluid-operated member with one point in the said conduit so as to transmit the fluid pressure occurring at said point to said side of the member; means for connecting the other side of said member to another point of the conduit lying in front of the first mentioned point in the direction of the flow of the fluid so as to transmit the fluid pressure occurring at said second point to said other side of the said member; a pressure reducing means arranged within the said conduit between the said two points for the purpose of increasing the pressure drop; a control member arranged outside the casing of the fluid operated member; and magnetic means for operatively connecting said control member with the said movable fluid-controlled member, substantially as described.

1,782,839. VALVE ACTION FOR INTERNAL-COMBUSTION ENGINES. EVERETT S. CAMERON, Tottenville, N. Y. Filed Mar. 17, 1928. Serial No. 262,456. 1 Claim. (Cl. 123—90.)



The combination with a valve cage provided with two valve seats, of two spring-controlled valves co-operating with said seats, said valves being normally maintained in their closed positions by the springs co-operating therewith, a stationary hollow guide spindle arranged in parallel relation to the stems of said valves, said spindle being adapted to contain lubricating material, a sleeve reciprocably mounted on said spindle, said spindle being provided with openings leading from its interior to that face of said sleeve which contacts with said spindle, whereby the lubricating material finds its way to the inner face of said sleeve, two prongs on to said sleeve in engagement with said valves, an anti-friction roller on said sleeve, and a rocker-shaft provided with a lever in engagement with said anti-friction roller for longitudinally shifting said sleeve, whereby said valves are simultaneously moved toward open positions in relation to their valve seats against the action of their springs when said rocker-shaft is actuated.

1,782,840. MILK COOLER. HARRY E. CANN, West Chester, Pa. Filed Mar. 24, 1928. Serial No. 264,405. 2 Claims. (Cl. 62—95.)



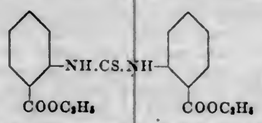
2. A cooling device comprising a cabinet having a cover, a heat absorbing liquid within the cabinet adapted to receive receptacles to be cooled, the surface of said liquid being exposed to incoming air when said cover is raised, and a refrigerating coil mounted in said liquid, said coil being completely submerged in said liquid when receptacles are therein and partly exposed above said liquid when said receptacles are removed, whereby said incoming air will be cooled by said exposed portion of said coil when a receptacle is removed.

1,782,841. TREATING COPPER ORES PREPARATORY TO LEACHING. CARL E. CARSTENS, Anaconda, Mont., assignor to Anaconda Copper Mining Company, Anaconda, Mont., a Corporation of Montana. Filed Aug. 17, 1925. Serial No. 50,873. 2 Claims. (Cl. 23—268.)

1. In the art of percolation-leaching of crushed oxid ores of copper containing fines, the step which comprises adding about four to five percent by weight of moisture to the ore prior to the introduction of the ore into the leaching vat.

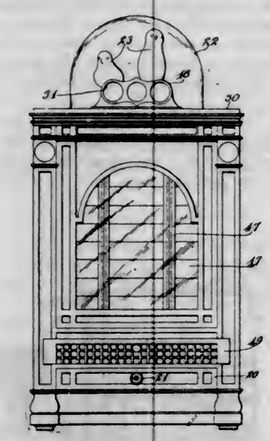
1,782,842. USE OF THE MONO- AND DI-CARBALKOXY-DIARYLTHIOUREAS AS ACCELERATORS IN THE VULCANIZATION OF RUBBER. CECIL JOHN TURRELL CRONSHAW and WILLIAM JOHNSON SMITH NAUNTON, Blackley, Manchester, England, assignors to British Dyestuffs Corporation Limited, Manchester, England. Filed Oct. 27, 1926, Serial No. 144,643, and in Great Britain Mar. 1, 1926. 2 Claims. (Cl. 18—53.)

1. The method of vulcanizing rubber which comprises admixing rubber with vulcanizing agents and an ortho carbalkoxyaryl thiourea having the formula



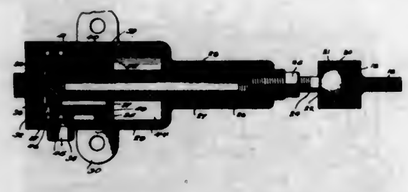
and subjecting the mixture to vulcanizing influences.

1,782,843. MECHANICALLY-OPERATED FIGURE TOY. ALBERT E. DERUS, Chicago, Ill. Filed May 12, 1926, Serial No. 108,614. Renewed Mar. 22, 1930. 1 Claim. (Cl. 46—40.)



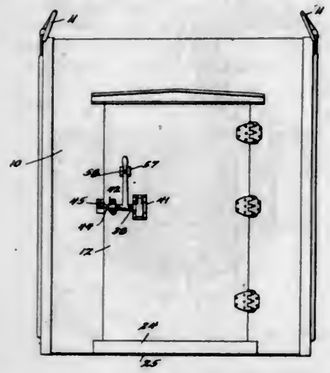
A sounding toy comprising a songbird figure having stationary and movable bill sections, a lever to vibrate the movable bill section, a spring attached to said movable bill section to normally urge the same towards said stationary bill section, a cam controlling said movable bill operating lever whereby to impart predetermined characteristics to the vibrations of said bill section, a sounding device, an actuator for the latter, an actuator control operated by said cam and synchronized with the vibrations of the movable bill section, a modulator for the sounding device, and a cam to operate the modulator with a predetermined order of movements to secure variable desired pitch characteristics from the sounding device.

1,782,844. LOCOMOTIVE BELL RINGER. DANIEL SAYER ELLIS, Hackensack, N. J., and CHARLES JAMES ZUSY, Yonkers, N. Y., assignors, by mesne assignments, to Ardco Manufacturing Company, Hoboken, N. J., a Corporation of Delaware. Filed May 5, 1928. Serial No. 275,385. 3 Claims. (Cl. 121—2.)



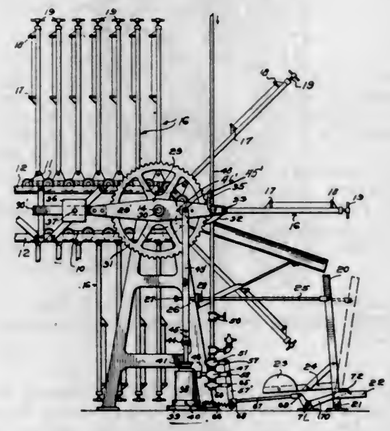
1. An improved locomotive bell ringer comprising a cylinder having an inlet at the central portion thereof, and an exhaust near one end thereof longitudinally and angularly offset from the inlet, a hollow slidable valve mounted in said cylinder and having inlet, exhaust, and venting annular channels in the periphery thereof, said inlet channel being located to the forward portion of the valve and said venting and exhaust channels being located to the rear portion of the valve, a piston connected to the bell and movably mounted within said valve, said valve having passages setting up communication between the inlet and exhaust channels and the space behind the piston, said valve also having passages connecting the forward portion of the cylinder with the venting channel of the valve.

1,782,845. CLOSURE OPERATING AND LOCKING MECHANISM. FREDERICK K. FILDES, Altoona, Pa. Filed May 23, 1928. Serial No. 280,056. 6 Claims. (Cl. 292—5.)



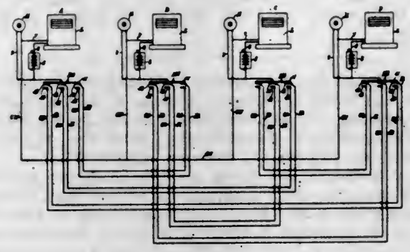
1. A door locking and operating mechanism comprising in combination, a shaft journaled in transversely aligned bearings secured to the outside of the door and having a crank portion projecting beyond the edge of the door, a keeper secured to the door frame adjacent the door opening and comprising a hook portion adapted to be engaged by the crank when the shaft has been rotated from locking position through a predetermined angle, a slidable bolt mounted on the inside of the door operatively connected to said shaft, the outer end of said bolt being adapted to engage the door frame and lock the door, rotation of said shaft through said predetermined angle being sufficient to withdraw said bolt from the frame, whereby further rotation of said shaft by engaging said crank with said abutment loosens the door, and a handle operatively connected to said shaft.

1,782,846. CLAMP MACHINE. STONEWALL J. GARDNER, New Albany, Ind. Filed July 24, 1930. Serial No. 470,518. 5 Claims. (Cl. 144—289.)



1. In a machine of the character described a traveling clamp support, a toothed wheel to drive the same, a pivoted lever arranged near the wheel, a pawl carried by the lever to engage the toothed wheel, and fluid pressure operated means to move the lever.

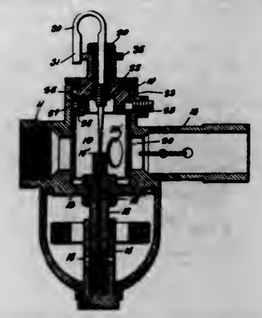
1,782,847. TELEPHONE SYSTEM. LOUIS M. GRANDIN, New York, N. Y. Filed Mar. 12, 1928. Serial No. 261,030. 10 Claims. (Cl. 179—37.)



1. In a telephone system, a plurality of stations, each including a transmitter and a loud speaking receiver, and a source of current, a common conductor for all of said transmitters, receivers, and sources of current, and switching means provided at each station to selectively connect said station in full inter-communicative relation with any one or more of the other stations, said switching means at each station being operable to exclude from inter-communicative relation all of such stations which previously have not been inter-connected with that station.

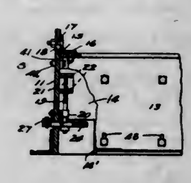
1,782,848. CARBURETOR. BENJAMIN F. GRAVELY, Dunbar, W. Va. Filed Jan. 18, 1930. Serial No. 421,851. 1 Claim. (Cl. 261—44.)

A carburetor including a casing, a nozzle for discharging gasoline into the casing, a rotatable throttle valve in the casing longitudinally split whereby to flex into contact with the walls of the casing, a portion of the valve being flexibly adjustable and peripherally grooved, means on the casing engaged in said groove whereby to cause longitudinal movement of the valve upon rotation



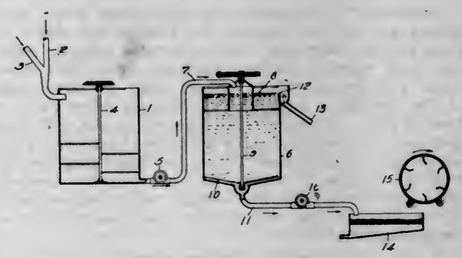
thereof, and a needle valve carried by the throttle valve movable with the throttle valve into and out of said nozzle.

1,782,849. BOWLING ALLEY. WALTER SCOTT HARTMAN, Calumet City, Ill. Filed Nov. 22, 1927. Serial No. 235,014. 2 Claims. (Cl. 273—51.)



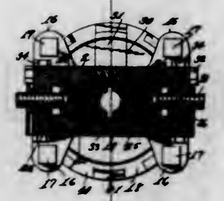
1. A bowling alley construction including a pair of substantially wide spaced stationary side bars having elongated openings and forming the sides of the alley, an alley base including wide vertically movable transverse supporting bars to which the alley planks are secured, angle bars connecting the movable supporting bars, bolts extending through the angle bars and elongated openings to adjustably connect the alley base to the stationary side bars, and means for moving the alley base vertically.

1,782,850. METHOD OF PURIFYING WATER AND APPARATUS THEREFOR. ROY LINDEN HILL, Tamaqua, Pa., assignor to Darco Corporation, Wilmington, Del., a Corporation of Delaware. Filed May 8, 1926. Serial No. 107,687. 4 Claims. (Cl. 210—9.)



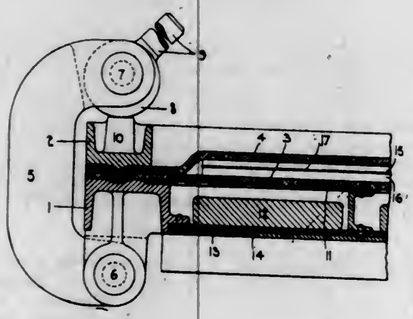
1. In the purification of water, the process which comprises mixing a natural water with a very small amount of activated carbon and afterwards giving the water containing suspended carbon a slow rotational velocity of the order of one or two turns per hour about the axis of a cylindrical tank to produce an accelerated settling of said carbon.

1,782,851. OIL SAVER. BENJAMIN P. HOFFMAN and AYERS M. HOFFMAN, Tulsa, Okla., assignors to The Pierce Development Company, Tulsa, Okla., a Corporation of Oklahoma. Filed Dec. 18, 1926. Serial No. 155,673. 2 Claims. (Cl. 286—16.)



1. An oil saver comprising a box-like body, packer blocks fitted in the body at opposite sides of the center thereof, means for adjusting the packers to compensate for wear, the body being slotted vertically in one side with the packer blocks extending partially across the slot from opposite sides thereof, and a closing bar removably secured in the slot in break-joint relation to the packers, and bridging the space between the inner ends of the packer blocks.

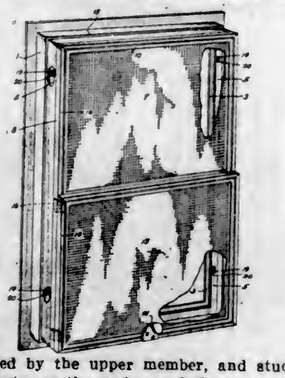
1,782,852. MANUFACTURE OF SPLINTERLESS GLASS. JOHN JEFFRAY, Ealing, London, England. Filed Dec. 4, 1929, Serial No. 411,442, and in Great Britain Nov. 12, 1928. 1 Claim. (Cl. 49—81.5.)



Apparatus for manufacturing splinterless glass, comprising an air-tight chamber for holding two sheets of glass and an interposed layer of suitable adhesive material, said chamber having collapsible upper and lower sides, a perforated plate secured under the lower side of the chamber, a compartment arranged below the perforated plate, heating devices inclosed in the said compartment and adapted to render the interposed layer adequately adhesive, and means for exhausting the air from the chamber to collapse its walls upon the sheets of glass and thereby effect the complete and permanent union of the sheets of glass at a pressure not exceeding that of the atmosphere.

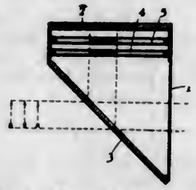
1,782,853. WINDOW-SCREEN STRUCTURE. KARL F. JONAS, Washington, D. C., assignor to Crittall Casement Window Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 8, 1929. Serial No. 353,579. 5 Claims. (Cl. 156—38.)

4. The combination with a window casing, of a screen supporting frame of channel members conforming to the contour of the casing, upper and lower screen members, the former fixed to the frame and the lower member slid-



ably supported by the upper member, and stud and slot connections between the casing and the screen supporting frame.

1,782,854. ADVERTISEMENT SIGN. THOMAS LAMB, Woodlea, and WILLIAM REID SHARP, Glenesk, England. Filed Oct. 5, 1929, Serial No. 397,644, and in Great Britain Oct. 10, 1928. 6 Claims. (Cl. 40—130.)

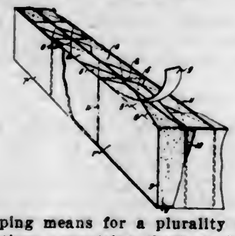


1. An animated reflector sign comprising a casing, a sign proper in said casing, two laterally spaced and stationary grids adjacent said sign proper and an angled mirror in said casing adapted to reflect the images of the said sign proper and grids through an opening in said casing.

1,782,855. FELTED FIBROUS PRODUCTS AND METHOD OF MANUFACTURE. HAROLD L. LEVIN, Nutley, N. J., assignor to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 11, 1928. Serial No. 253,796. 15 Claims. (Cl. 92—21.)

1. A method of producing waterproof fibrous articles which comprises forming an aqueous fibrous stock, adding a waterproofing substance in aqueous dispersed form to said stock, causing a fixation of dispersed waterproofing particles upon the fibers by means of a fixing agent formed in situ in the mixture, at the iso-electric point of said agent, and thereafter forcing the aqueous mixture of fibers and waterproofing substance against a foraminous mould.

1,782,856. CONFECTION WRAPPER. HERBERT AUGUST MEYER, Buffalo, N. Y. Filed May 2, 1928. Serial No. 274,629. 3 Claims. (Cl. 229—87.)



1. A wrapping means for a plurality of aligned individual confections comprising sheets each adapted to extend around the sides and bottom of a confection, a unitary flexible strip adapted to lie along the tops of the confections, and flaps provided upon the upper edges of the sheet and extending over the top of the strip, such flaps being unsecured to the strip so that an upward movement of the strip will readily lift the flaps.

1,782,857. PROCESS FOR OBTAINING A CATALYTIC GEL. ERNEST B. MILLER and GERALD C. CONNOLLY, Baltimore, Md., assignors to The Silica Gel Corporation, Baltimore, Md., a Corporation of Maryland. Filed Nov. 19, 1926. Serial No. 149,523. 8 Claims. (Cl. 23—233.)

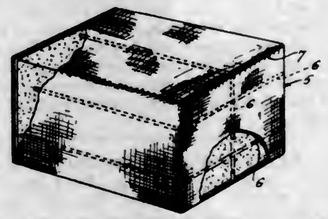
1. The process of preparing a catalytic agent consisting in contacting a hydrogel with a solution of a substance capable of being converted by heat into a catalytic agent, converting the impregnated hydrogel into a hard, porous gel, and heating the gel to decompose the substance into a catalytic agent.

1,782,858. KITE. CHARLES NAGY, Hillside, N. J. Filed July 5, 1928. Serial No. 290,509. 1 Claim. (Cl. 244—22.)



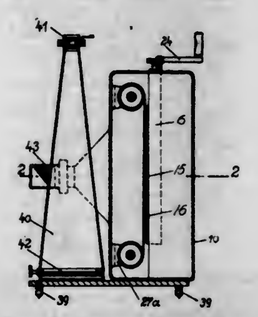
A kite comprising a frame having radial ribs rigidly secured together at their intersections, a cord attached to the ends of the ribs and providing loops between the ribs, and a cord attached to the loops midway of the ribs and forming a floating element of polygonal shape located between the ends of the ribs and their intersecting points and drawing inwardly the loops to define a star-shaped skeleton frame, said frame being covered with a sheet of suitable material, tail elements being attached to a plurality of ribs, and a flying cord having branches leading from its principal length to a plurality of ribs.

1,782,859. AUXILIARY SOAP-CAKE COVER. JAMES A. PEREGO, Elizabeth, La. Filed Oct. 22, 1929. Serial No. 401,456. 1 Claim. (Cl. 15—122.)



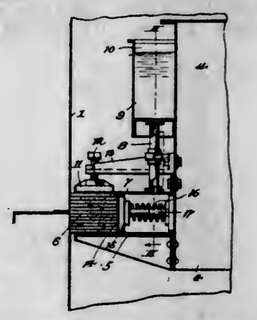
In combination with a cake of soap, a covering of cloth shaped to snugly receive the cake and having the same exterior shape as the cake, and resilient contractile bands connected with the interior of the covering and passing around the cake for holding the covering in close contact with the cake after the cake has been reduced in size.

1,782,860. APPARATUS FOR MAKING EXPOSURES OF THE PATH OR ROUTE OF FLYING MACHINES OR THE LIKE. ERNST REIPERT, Nowawes, near Potsdam, Germany, assignor to Askania-Werke Aktiengesellschaft vormals Centralwerkstatt Dessau und Carl Bamberg-Friedenau, Berlin-Friedenau, Germany. Filed Feb. 16, 1928, Serial No. 254,830, and in Germany Sept. 15, 1926. 8 Claims. (Cl. 95—12.5.)



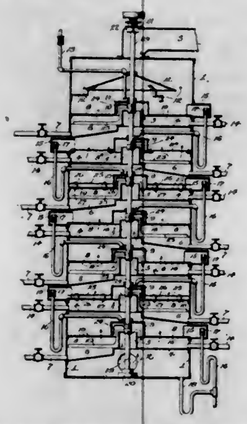
1. An apparatus for making exposures of the path or route of a flying machine or the like, comprising a photographic camera; a searcher camera arranged adjacent to the first-mentioned camera and through which the object is observed; a pair of common diaphragms for the cameras, each having a pair of openings of the diaphragms therein, the openings of each camera overlapping and the openings of the diaphragms of the photographic camera forming a restricted opening; and means for moving said diaphragms to adjust the openings of the diaphragms in the searcher camera to maintain the object to be photographed within the restricted opening of the diaphragms of the photographic camera.

1,782,861. GAS HOLDER. FREDERICK H. WAGNER, Baltimore, Md., assignor to The Bartlett Hayward Co., Baltimore, Md., a Corporation of Maryland. Filed Oct. 23, 1926. Serial No. 143,766. 3 Claims. (Cl. 48—176.)



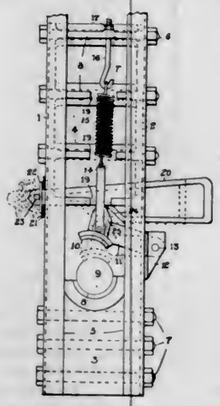
1. In a waterless gas holder, the combination of a shell; a piston-like closure therefor; a shelf secured to the circumference of the closure and extending around the same, the outer edge of said shelf stopping short of the wall of the shell; a body of felt mounted upon the shelf; a plate overlying the felt extending inwardly and connected to the closure thereby forming a pocket; means for constantly urging the felt outwardly into contact with the wall of the shell; and a reservoir for liquid communicating with the pocket aforesaid.

1,782,862. LIQUID AND GAS CONTACT APPARATUS. FREDERICK H. WAGNER, Baltimore, Md., assignor to The Bartlett Hayward Company, Baltimore, Md., a Corporation of Maryland. Filed Mar. 14, 1928. Serial No. 261,625. 4 Claims. (Cl. 261—114.)



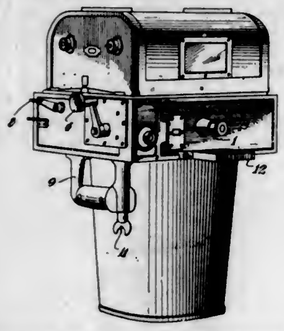
1. In a gas and liquid contact apparatus the combination of a casing having a gas inlet and a gas outlet; a series of chambers formed therein by a series of transversely extending plates, each plate having a passage for the upflow of gas associated therewith; means for introducing a liquid into the chambers; a reticular element extending transversely of each chamber and closing said chamber against upward passage of gas other than through such reticular element; means associated with the gas passages aforesaid for causing the gas as it is forced upwardly through the casing to flow against and to carry a portion at least of the liquid from the lower part of each chamber upwardly through the reticular element located therein, such liquid being retained upon said element by the upflowing gas stream; a trapped overflow for liquid extending from a point above the reticular element to a point within the chamber next below; and means for introducing liquid directly into said chambers independently of each other.

1,782,863. PITMAN. CLYDE S. WRIGHT, Toledo, Ohio, assignor to The National Supply Company, Toledo, Ohio, a Corporation of Ohio. Filed Nov. 8, 1926. Serial No. 146,980. 1 Claim. (Cl. 287—93.)



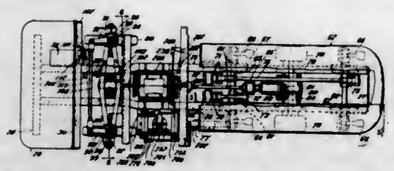
In a metallic pitman, a pair of individual channel bars extending longitudinally of the pitman, a block distinct from the bars and seated in the channels of both bars, a wrist-pin bearing member carried by the block, a second block seated in the said channels of the bars and spaced from the first block, means for clamping the blocks to the bars, a bearing movable in the said space for engaging a wrist-pin opposite the portion thereof engageable by the first bearing member, and means cooperating with the second block and the movable bearing for holding the movable bearing in operative position.

1,782,864. AERIAL CAMERA. AMBROSIUS BRIECHLE, New York, N. Y., assignor to Fairchild Aerial Camera Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 10, 1929. Serial No. 412,980. 4 Claims. (Cl. 95—12.5.)



1. In combination with an aerial camera, a plurality of attachments for manual film-winding control handles and a plurality of shutter tripping devices.

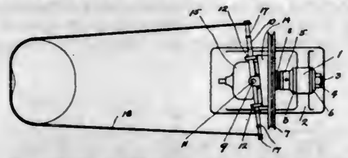
1,782,865. AUTOMOBILE LIFT TRUCK. ROBERT J. BURROWS, Buchanan, Mich., assignor to Clark Tructractor Company, Buchanan, Mich., a Corporation of Michigan. Filed May 1, 1922. Serial No. 557,646. 21 Claims. (Cl. 254—10.)



1. A lift truck comprising a main frame, a lifting platform supported at one end portion thereof, lifting means supporting said platform on said frame and operable to move the same upwardly meanwhile maintaining its horizontal position, propelling wheels supporting said frame and located under said platform, an operator's platform at the other end of said frame, dirigible wheels supporting the latter end of said frame, a motor mounted on said frame between said platforms, a unidirectional drive shaft disposed longitudinally of said frame and driven by said motor, a shaft extending longitudinally of said frame and connected with said drive shaft and with said propelling wheels for propelling the truck, means driven by said drive shaft and operatively connected with said lifting means for moving the lifting platform upwardly, and devices operable from the operator's platform for controlling the propulsion of the truck and the operation of said lifting means, respectively.

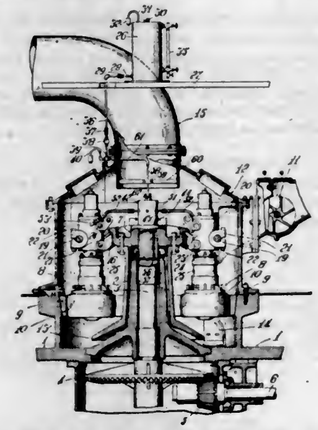
1,782,866. EXERCISING AND MASSAGING MACHINE. WILLIAM C. CARR, Richmond, Va. Filed Mar. 13, 1930. Serial No. 435,389. 12 Claims. (Cl. 128—63.)

5. An exercising machine comprising a support; an arbor mounted on the support; an oscillating bar pivoted on the arbor; rollers mounted on the bar on either side of the pivot; annular shoes of non-metallic material mounted on the rollers; a cam rotatably mounted on the arbor and



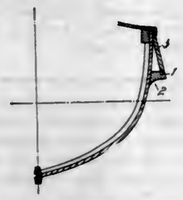
adapted to engage the said rollers to oscillate the bar; means for adjusting the contact between the rollers and the cam; and means for rotating the cam.

1,782,867. CENTRAL LUBRICATION SYSTEM FOR ROLLER-MILL ROLLERS. PHILIP DAVIDSON, New York, N. Y., assignor to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 8, 1928. Serial No. 318,070. 14 Claims. (Cl. 184—6.)



1. In an oiling system for pulverizing mills, a distributing head adapted to rotate about its central vertical axis, said head comprising an enclosed chamber divided in its lower portion by a plurality of radial partitions into a plurality of distributing chambers arranged symmetrically about the axis of rotation, a conduit leading from each distributing chamber, a relatively stationary reservoir for lubricant, a conduit leading from the reservoir and projecting into the distributing head along the axis of rotation of the head, this conduit having a lateral extension at its lower end for discharging lubricant successively into the rotating distributing chambers.

1,782,868. HIGH-SPEED VESSEL. RICHARD DEETJEN, Berlin-Wilmersdorf, Germany, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany, a Corporation of Germany. Filed Jan. 4, 1929, Serial No. 330,353, and in Germany Aug. 2, 1926. 3 Claims. (Cl. 114—66.5.)



3. In a high-speed vessel with convex hull, a ledge concave at its underside and extending along each side of the vessel from near the middle of the hull to the bow, said ledges being so spaced above the water line that they are within reach of the bow-wave developed when going full speed ahead.

1,782,869. METHOD FOR RECOVERING THE FIBROUS MATERIAL FROM SUGAR CANE. JOAQUIN JULIO DE LA ROZA, Sr., Brooklyn, N. Y., assignor to Bagasse Products Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 25, 1926. Serial No. 97,452. 4 Claims. (Cl. 92—9.)

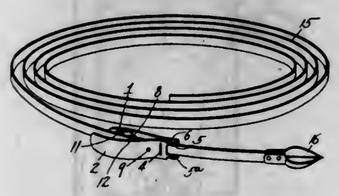
1. A method for recovering the fibrous material from sugar cane, which includes the step of treating the fibrous part of the cane with substantially neutral water at a temperature sufficient to remove or transform most of the substances combined with the fibrous part, said treatment being carried out in the substantial absence of air.

1,782,870. GASKET. JAMES G. DICKSON, Glencoe, Ill. Filed Sept. 10, 1928. Serial No. 305,077. 1 Claim. (Cl. 288—1.)



A gasket comprising a binding shell of ductile metal and a filling formed entirely of a plurality of thin pliable laminæ of ductile metal arranged in flatwise contact one with the other, said laminæ being sufficient in number and having a degree of tenuity to provide for adjustment by compression to irregularities of surfaces between which used, while at the same time providing for variation in thickness of the uncompressed portions sufficient to effect a tight joint.

1,782,871. HANDLE FOR PIPE CLEANERS. CHARLES FISCHER, New York, N. Y. Filed May 19, 1927. Serial No. 192,639. 5 Claims. (Cl. 81—5.1.)

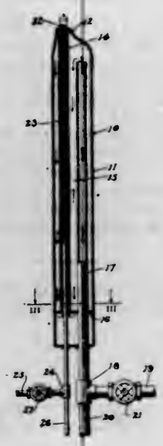


1. A gripping handle for sewer pipe cleaners or the like comprising, a pair of coacting metal gripping handles, each provided with a transverse gripping jaw, one of said handles provided with a pair of laterally spaced hooks, the other handle provided with laterally spaced eyes, with which said hooks separately and loosely engage, the lateral spacing between the hooks permitting the ribbon attached to a pipe cleaner to pass between them, and a spring secured to one of said handles and engaging the other handle so as to normally press said handles and said gripping jaws apart.

1,782,872. TORCH. PERCY M. FORSTER, Berkeley, Calif. Filed Nov. 26, 1929. Serial No. 409,837. 7 Claims. (Cl. 158—27.4.)

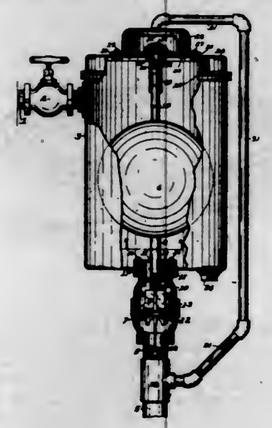
6. A torch including a casing, a tube arranged therein and terminating at one end in a nozzle, a mixing chamber surrounding the tube and communicating therewith at the other end thereof, means for delivering gas and

air to the mixing chamber at a point where the gas and air must reverse its direction of flow before passing through



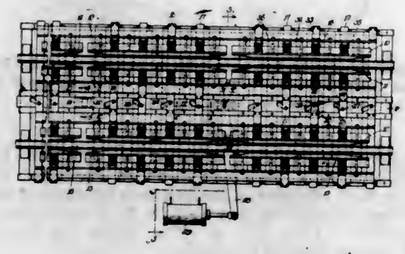
the tube to the nozzle, and a pipe arranged to extend through said tube for delivering oxygen and compressed air at the nozzle.

1,782,873. CIRCULATION REGULATOR FOR HEATING SYSTEMS. ESTELLE M. GURNEY, New York, N. Y. Filed Oct. 1, 1929. Serial No. 396,551. 4 Claims. (Cl. 137—103.)



1. An automatic trap comprising a casing having an inlet, an outlet for water provided with a valve, a steam and air outlet at the top of said casing, a gravity valve controlling the steam outlet, a perforate sleeve on the gravity valve open to the casing permitting excessive pressure to raise the valve, means for limiting the raising of the valve, a cap over the valve connected with said outlet below the valve therein, a float operable in said casing, said float having a lower stem engaged with outlet valve, and an upper stem slidable in said sleeve to raise the gravity valve simultaneously with said outlet valve.

1,782,874. TRACK-BRAKE MECHANISM. GEORGE HANNAUER, Calumet City, Ill., and EDGAR M. WILCOX, Hammond, Ind., assignors to Hannauer Car Retarder Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 29, 1926. Serial No. 98,123. 2 Claims. (Cl. 188—62.)



1. In a device of the character described, the combination of rails, resiliently mounted brakes on both sides of each rail, means connecting alternate brakes longitudinal operating means disposed between the rails and having slots disposed angularly with respect to said rails, and pins on said first named means extending in said slots for moving said brakes into braking position.

1,782,875. ANTI-INDUCTION SHIELD. ALFRED HERZ, Chicago, Ill. Filed Feb. 16, 1928. Serial No. 254,706. 4 Claims. (Cl. 171—91.)

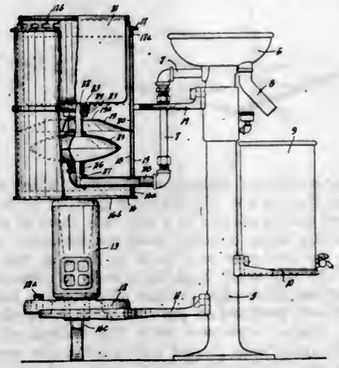


1. A system of the class described, comprising in combination an A. C. power transmitting line comprising aerial conductors insulated from ground except through a grounded neutral connection, an insulated signaling conductor paralleling the power line for a sufficient distance that when it is subjected to the inductive effect of current flow in the power line a potential will tend to be induced upon said signaling conductor in excess of the insulation value of said signaling conductor, a shielding wire of substantially the conductivity of the aerial conductors of the power line interposed between the power line and the signaling conductor, and a series of highly conductive grounded taps connected to said shielding wire, said shielding wire being of sufficient capacity to conduct therethrough the return flow of current in case of a ground fault of one of the conductors of the transmission line, and by the induced current flow caused by the ungrounded flow of current in the power line, or the conducted flow of fault current in the power line, reducing the induced voltage on the signaling conductor to a safe value within the insulation value of the same.

1,782,876. CAN-CLEANING-MACHINE HEATER. DEDRICK A. MAANUM, Minneapolis, Minn., assignor, by mesne assignments, to Cherry-Burrell Corporation, Wilmington, Del., a Corporation of Delaware. Filed Mar. 28, 1927. Serial No. 178,990. 1 Claim. (Cl. 126—350.)

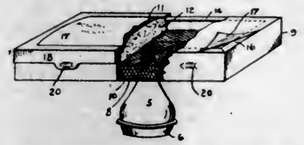
A water heater comprising a burner, a top annular plate and a bottom annular plate having opposing flanges,

an outer casing arranged between said plates and on the outside of said flanges above the heater, a lower inner casing spaced from the outer casing and supported on the bottom plate inside of its flange, an upper inner casing supported in engagement with the top plate on the inside of its flange, a main water container supported within the upper inner casing, an outlet pipe passing through the



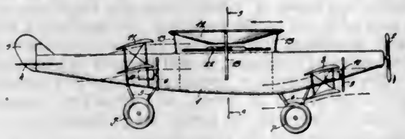
lower inner casing and the outer casing, a lenticular container connected with and supported by said outlet pipe, a pipe connecting the top of the lenticular container with the bottom of the main container, and a frusto-conical deflector arranged between the lenticular container and the main container with its peripheral margin located between the lower and upper inner casings.

1,782,877. INKED STAMP. THOMAS E. MADDEN, Newark, N. J. Filed Aug. 17, 1928. Serial No. 300,270. 5 Claims. (Cl. 101—125.)



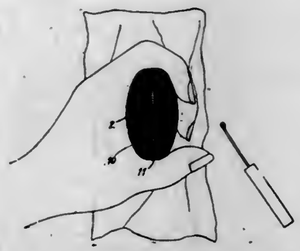
1. In a hand stamp of the class described, a housing having an inturned flange extending around said housing, a pad within said housing adapted to rest upon said flange, an open walled five-sided chamber between said housing and said pad, an outer frame adapted to be secured over said housing, a stencil between said outer frame and housing and over said pad, and means for supplying ink to said pad through said housing.

1,782,878. AEROPLANE. RICHARD H. O'MASSEY, Denver, Colo., assignor of one-half to Eloy Padia, Denver, Colo. Filed Aug. 15, 1929. Serial No. 386,014. 6 Claims. (Cl. 244—15.)



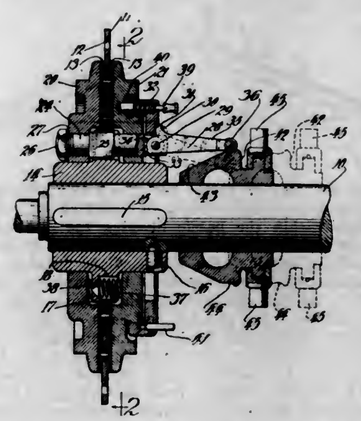
1. A tandem plane having an elongated fuselage, oppositely extending planes secured to the fuselage and spaced longitudinally thereof, the fuselage having a vertical opening located between the first two sets of planes, an elevating propeller located above the opening and rotatable about a vertical axis, and an elevating surface located above the elevating propeller, said surface having an opening concentric with the propeller.

1,782,879. HOLDER FOR REKNITTING FABRICS. ALEXANDER C. PARLINI, Woodside, N. Y., assignor to Gotham Knitbac Machine Corporation, a Corporation of Delaware. Filed June 22, 1929. Serial No. 372,919. 11 Claims. (Cl. 66—1.)



1. A holder for supporting a fabric having a run therein to be re-knitted comprising, a portion having an ellipsoidal shape in cross-sections at right angles to each other and a substantially rectangular recess therein extending parallel with the longest axis of said portion and across which the fabric may be stretched with a greater tension longitudinally of the run than laterally thereof.

1,782,880. FRICTION CLUTCH. WILLIAM J. PEARMAIN, Racine, Wis., assignor to Twin Disc Clutch Company, Racine, Wis., a Corporation of Wisconsin. Filed Apr. 22, 1929. Serial No. 356,961. 10 Claims. (Cl. 192—68.)

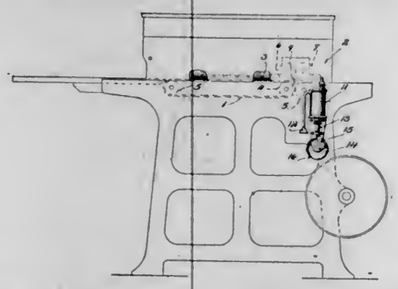


4. The combination with a clutch including a friction plate and a hub adapted for attachment, respectively, to separate rotating elements and held against relative axial movement, of a pair of gripping members engageable with the opposite sides of said plate and arranged for axial movement on said hub, driving pins engaging one of said members and connecting both of said members for rotatory motion with the hub, levers pivotally mounted on the unengaged ends of said pins, a plate adjustably carried by one of said gripping members for coacting with the adjacent ends of said levers, and means for actuating said levers to force said gripping members against said friction plate.

1,782,881. ATTACHMENT FOR BRONZING MACHINES. ERWIN E. RADLOFF and AUGUST W. JANKE, Milwaukee, Wis., assignors to C. B. Henschel Mfg. Co., Milwaukee, Wis. Filed Aug. 25, 1928. Serial No. 302,116. 1 Claim. (Cl. 271—74.)

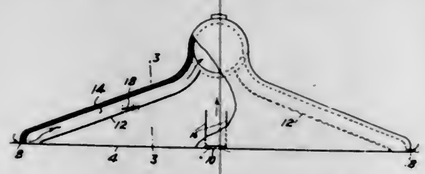
In combination with a plurality of rollers arranged in intimate contact and in opposed pairs with the pairs ex-

tending both vertically and horizontally, of a feeding belt passing around one of said rollers and in intimate contact with a vertically opposed roller for receiving sheets thereon, and an air pipe extending longitudinally of the



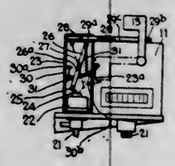
roller around which the belt passes and having a plurality of apertures directed in an upwardly inclined plane toward said belt, and means for directing a pulsating blast of air through said apertures to free the sheets from said belt.

1,782,882. VACUUM-CLEANER NOZZLE. SAMUEL HOWARD RIPPEY, Philadelphia, Pa. Filed Dec. 13, 1927. Serial No. 239,652. 1 Claim. (Cl. 15—155.)



A vacuum cleaner nozzle having an exit arranged for connection to a suction means, an elongated entrance, and partitions within the nozzle dividing the elongated entrance to form two end intake openings and at least one intermediate opening, the intermediate opening having its bounding walls substantially in one plane and arranged to contact substantially throughout their extent with a surface being cleaned, and each of the end openings being substantially in said plane and opening in the direction of said plane above said plane to draw a current of air across the surface being cleaned, the partitions acting to lead air currents from said openings independently towards the exit to prevent interference with each other.

1,782,883. CONTROL FOR ELECTRIC ADVERTISING SIGNS. EDWARD M. ROSENFIELD, New York, N. Y. Filed Sept. 11, 1929. Serial No. 391,749. 9 Claims. (Cl. 40—52.)



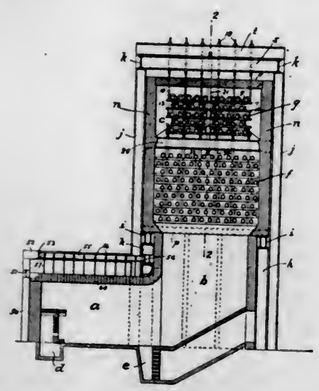
1. In a motor vehicle equipped with a manually controlled taximeter, an electric sign, of a switch for controlling the operation of said sign, and manually operated means detached from and interlocking with the manual control of said taximeter for actuating the switch.

1,782,884. METHOD OF MAKING PAPER BAGS. THOMAS M. ROYAL, Philadelphia, Pa. Filed Feb. 7, 1929. Serial No. 338,075. 6 Claims. (Cl. 93—35.)



1. The method of making a paper bag, which comprises as steps therein the placing of a coating of a selected substance upon a portion of a side of a sheet of paper, the said coating being omitted from one marginal edge portion of the said side and from portions at the opposite ends of the said sheet, applying a strip of adhesive to the uncoated marginal edge surface of said side, folding the opposite side portions of the said sheet inwardly to produce a tubular structure with the waterproof coating upon the inner side thereof and uniting the overlapping edges of the said side by means of the said strip of adhesive, and thereafter closing one end of the said tubular structure.

1,782,885. TUBE STILL FURNACE. HENRY THOMAS, Ridley Park, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a Corporation of New Jersey. Filed July 6, 1927. Serial No. 203,702. 9 Claims. (Cl. 122—510.)

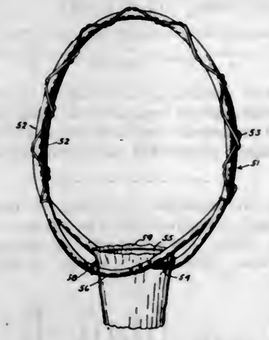


1. A furnace comprising walls and a roof enclosing a chamber, two banks of tubes therein one above the other, two sets of metal beams overlying the chamber, a set of hangers depending from one set of beams, crossbars connected with and supported by said hangers and supporting the tubes of one bank, a second set of hangers depending from the other set of beams, and cross-bars connected with and supported by the second set of hangers and supporting the tubes of the other bank.

1,782,886. ATTACHMENT FOR CONTAINERS. FRED H. AXELL, Oakland, Calif. Filed Jan. 29, 1929. Serial No. 335,940. 9 Claims. (Cl. 215—100.)

8. In a handle member for mounting on a generally cylindrical object, a pair of generally like and planar loop elements formed of resiliently flexible rod material

and fixed together in generally parallel relation at spaced points along their length and having mutually opposed portions between a pair of said points separable axially of



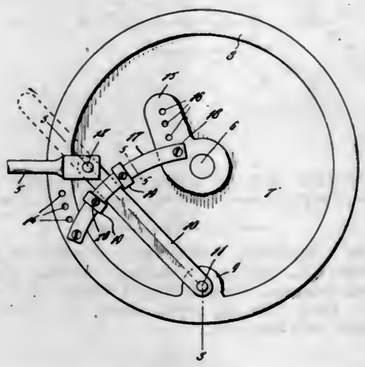
the loops to provide an opening for receiving the object, and spring means operative between said portions to resist said separation thereof.

1,782,887. PROCESS OF PRODUCING COMPOSITIONS CONTAINING COMPOUNDS OF ALGINIC ACID AND PRODUCT THEREOF. LAURIE LORNE BURGESS, Cambridge, Mass., assignor to Plastic, Inc., Keene, N. H., a Corporation of New Hampshire. Filed July 14, 1928. Serial No. 292,905. 24 Claims. (Cl. 260—2.)

1. The process which comprises forming an insoluble product by the reaction of alginic acid upon a hydrocarbon and then plasticizing the product by the addition of an alkali.

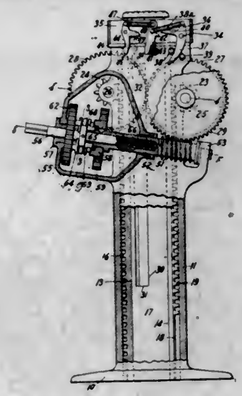
24. A product comprising a reaction product of alginic acid and paraffin wax from which soluble constituents have been partly removed, the same having been combined with a metal base, and containing a finely divided metal.

1,782,888. MECHANICAL MOVEMENT. WILLIAM C. DENHAM, Keensburg, Ill. Filed Jan. 18, 1929. Serial No. 333,438. 2 Claims. (Cl. 74—20.)



1. A mechanical movement including a rotary member, a pitman, a bar pivotally engaged at one end to an off center point of the rotary member and extending tangentially thereto, a pitman, a wrist pin connecting the pitman with the other end of the bar, an arcuate member, means for mounting an arcuate member on the rotary member across the bar, stop collars on the arcuate member one to each side of the bar to limit the movement thereof, means for adjusting the arcuate member.

1,782,889. LIFTING MECHANISM. JOHN DOLAN, Dayton, Ohio. Filed Oct. 17, 1927. Serial No. 226,600 17 Claims. (Cl. 254—97.)



1. In a lifting mechanism, a hollow standard, an outer lifting member mounted for vertical movement in said standard, having teeth on one side thereof and having a longitudinal guideway opening through the other side thereof, an inner lifting member slidably mounted in said guideway and having a part extending beyond said guideway and overlapping the edges of said outer member at the sides of said guideway, said part of said inner lifting member having teeth on the outer side thereof, separate pinions to engage the teeth on the respective lifting members, and means to actuate said pinions.

1,782,890. VENTILATING APPARATUS. HENRY L. ELLIOTT and ROBERT A. CARROLL, Claysville, Pa., assignors of one-third to Thomas W. Henderson, Washington, Pa. Filed Apr. 13, 1929. Serial No. 354,781. 2 Claims. (Cl. 261—11.)

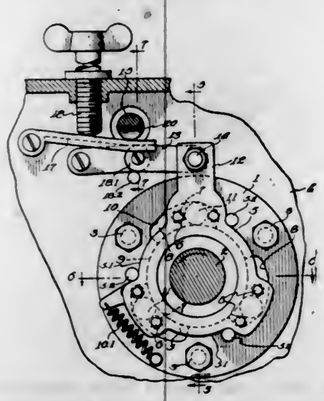


1. In a ventilating apparatus of the character described, a closed receptacle, a partition wall dividing said receptacle into a primary chamber and a secondary chamber, said chambers communicating with each other at the upper end of said partition wall, a primary cooling element mounted in said primary chamber, a secondary cooling element mounted in said secondary chamber, liquid stored in said primary chamber and partially submerging said primary element, means for forcing air under pressure through the liquid in said primary chamber and through said secondary chamber, a plurality of baffle plates fixed in said receptacle for directing the air against said cooling elements on its passage through said chambers, and means communicating with said secondary chamber and with the heat distributing ducts of a hot air furnace for distributing the air from said receptacle through said ducts.

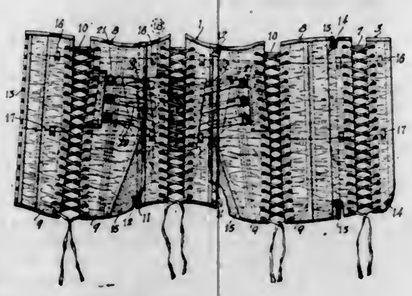
1,782,891. AUTOMOBILE BRAKE. REMI J. GITS, Chicago, Ill. Filed July 13, 1929. Serial No. 378,141. 7 Claims. (Cl. 192—4.)

1. In an automobile braking device of the class described, a propeller shaft provided with an annular brak-

ing surface, a fixed braking ring surrounding said braking surface and having inclined surfaces facing said braking surface, gripping rollers located between said braking ring and said braking surface, control means for positioning said rollers between the braking surface and braking ring into wedging relation therewith for one direction of rotation of the shaft, and means for manually adjusting said control means to hold the rollers in inoperative position.



1,782,892. CORSETIERE'S FITTING APPARATUS. ETTA GRAY, New Haven, Conn., assignor to Barclay Corset Company, a Corporation of New Jersey. Filed June 29, 1928. Serial No. 289,114. 1 Claim. (Cl. 2—27.)



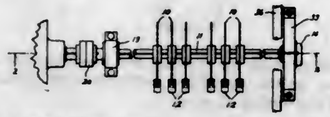
A corsetiere's fitting apparatus comprising a front section, a back section and side sections, said sections extending from top to bottom of the apparatus, and each section being composed of a plurality of parts each extending from top to bottom of the respective section, means for connecting the side edges of said parts of each section for relative adjustment of said parts and quick-detachable fastener elements on both side edges of each of said sections to cooperate with the fastener elements on another section for separably connecting the side edges of said sections together so that a corsetiere may connect said sections together and apply said apparatus girthwise to the body of a person to be fitted for a corset, relatively adjust said parts of the sections by the first-mentioned means to modify the figure as desired, and take measurements for a corset to be made to maintain such modified figure.

1,782,893. BOAT-HULL CONSTRUCTION. HERALD B. GREENING, Hamilton, Ontario, Canada, assignor to Galloway Engineering Company Limited, Hamilton, Ontario, Canada. Filed Dec. 14, 1929. Serial No. 414,080. 10 Claims. (Cl. 114—66.5.)



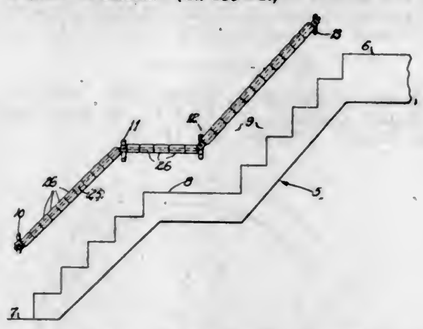
1. A boat hull comprising longitudinal members spaced apart, a flexible bottom supported by said longitudinal members, and transverse members arranged clear of the bottom and rigidly supporting said longitudinal members.

1,782,984. GANG EDGER. WILLIAM B. GRUETER, Menominee, Mich., assignor to The Prescott Company, Menominee, Mich., a Corporation of Michigan. Filed June 14, 1926. Serial No. 115,761. 6 Claims. (Cl. 143—37.)



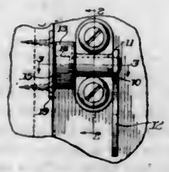
1. In a gang edger having an arbor, saws splined thereon and a bridge tree adjacent one end of the arbor, a bearing slidably mounted in said bridge tree, said bearing including cooperable rotating and supporting parts, and means for detachably connecting said bearing to said arbor whereby the bearing may be removed as a unit to permit removal of the saws from said arbor.

1,782,895. FLEXIBLE HANDRAIL AND SUPPORT THEREFOR. WILLIAM O. HARTMAN, St. Louis, Mo., assignor to Welsh-Hartman Co., St. Louis, Mo., a Corporation of Missouri. Filed Mar. 29, 1929. Serial No. 350,958. 2 Claims. (Cl. 189—1.)



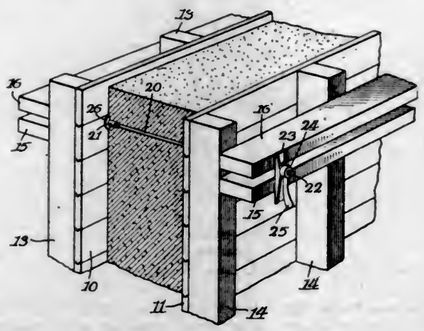
1. A flexible hand rail having buttons slidably secured thereon, a support, said hand rail secured in said support.

1,782,896. WINDOW FASTENER. ANDREW HOFFMAN, Chicago, Ill., assignor to Andrew Hoffman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed July 15, 1927. Serial No. 205,922. 8 Claims. (Cl. 292—241.)



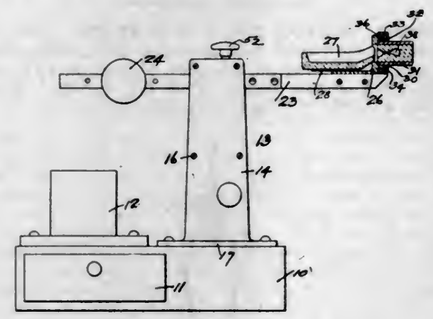
1. In a latch, a strike which is adapted to be mounted on one of two relatively movable members, a bracket which is adapted to be mounted on the other of said members, a stem rotatably mounted in the bracket, a head secured to the stem for coaction with the strike, and a handle for turning the head, said head having a flange which is generally parallel to the axis of the stem and is curved on a radius passing through such axis about a center on the opposite side of the same.

1,782,897. FORM CLAMP. CHARLES E. HUDGIN, Chicago, Ill., assignor to Samuel E. Lingle, Evanston, Ill. Filed May 31, 1929. Serial No. 367,421. 4 Claims. (Cl. 25—131.)



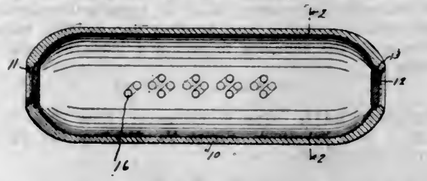
4. A form clamp for holding in spaced relation forms having side walls provided with vertical members and horizontal whalers, comprising a center tie rod, and rods removably secured to said tie rod and adapted to extend outside the side walls and between the whalers, flanged sleeves mounted loosely on said end rods with the flanges abutting the inner sides of the side walls, fastening devices for fastening the sleeves to the end rods on the outside of the side walls to prevent longitudinal movement of the sleeves relative to the end rods, and clamping devices on the outer ends of the end rods for bearing against the whalers.

1,782,898. CASTING MACHINE. CARL E. HUNTER and DE L. LUTZ, Memphis, Tenn. Filed Apr. 30, 1930. Serial No. 448,693. 6 Claims. (Cl. 22—65.)



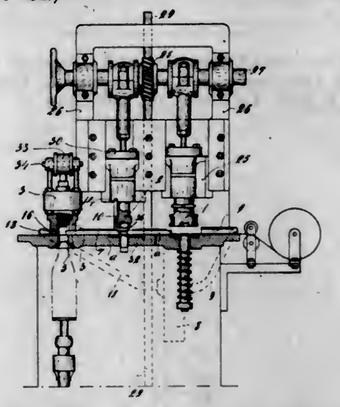
1. In a centrifugal casting machine, a throwing arm revolvable in a vertical plane, a pinion secured to and revolvable with said arm, a slide movable in a path tangential to said pinion, a rack having one end pivotally attached to said slide, said rack meshing with said pinion, and longitudinally movable with said slide to actuate said pinion, and being laterally shiftable to disengage it from said pinion to allow said throwing arm to be positioned, or said rack to be shifted.

1,782,899. METHOD OF MAKING DRUMS. WILLIAM A. JONES, West New Brighton, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Mar. 19, 1926. Serial No. 96,110. 3 Claims. (Cl. 29—148.2.)



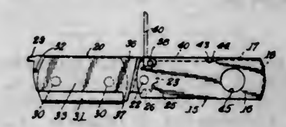
1. The method of forming a continuous walled drum having a hole in one end thereof which comprises forming a shell with a wall of uniform thickness, forcing the end of the shell inwardly toward the axis of the shell until the end edge of the shell reaches the diameter of said hole, thickening the shell around said hole by forcing said end of the shell toward the opposite end thereof, and forming a cover seat around the hole inside the drum.

1,782,900. MACHINE FOR MAKING AND APPLYING CAPS TO BOTTLES AND THE LIKE. ANDERS JOSEF JONSSON, Linkoping, Sweden. Filed Feb. 17, 1926, Serial No. 88,975, and in Sweden Nov. 6, 1925. 4 Claims. (Cl. 226—84.)



1. A capping device of the character described, comprising a tool for stamping and bending a blank, a packing inlaying tool and a tool for applying the cap to a bottle, a guide running from one tool to another, pneumatic means to remove the cap from the stamping and bending tool, thereafter project the formed cap into the guide and transmit it to the inlaying tool, and means to stop the formed cap at the inlaying tool and release the same from said tool, said pneumatic means being further effective to transmit said cap within the guide to the applying tool.

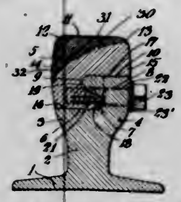
1,782,901. CUTTING DEVICE. MORRIS B. KASSEL, Brooklyn, N. Y. Filed Feb. 27, 1925. Serial No. 11,997. 5 Claims. (Cl. 30—10.)



1. In a blade holder for receiving and retaining a removable blade with one edge exposed, a main plate, a

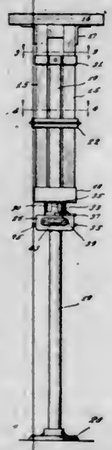
thickened extension formed on the inner end of the plate, the shoulder formed at the juncture of the plate with the extension being disposed at an angle and being under-cut, a blade clamping plate pivoted at its outer end on the outer end portion of the main plate, the inner end of the clamping plate being cut at an angle coincident with the angular shoulder and bevelled for wedging engagement with the shoulder to secure a blade between the plates.

1,782,902. RAIL. GUY F. KOTRBATY, New York, N. Y. Filed July 27, 1928. Serial No. 295,706. 11 Claims. (Cl. 238—144.)



1. A rail construction comprising a base web member, a detachable tread portion abutting and overlying the entire upper surface of the web member, said web member and tread portion having centrally disposed laterally extending, respectively abutting tapering portions, whereby they are substantially locked against relative vertical movement.

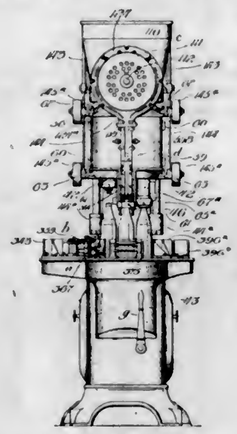
1,782,903. ADJUSTABLE SHORE. CHARLES M. MARKHAM, Indianapolis, Ind. Filed July 27, 1925. Serial No. 46,246. 4 Claims. (Cl. 248—2.)



1. An adjustable shore comprising an upper part and a lower part, said upper part being formed of two laterally spaced members provided at their lower ends with a cap, said cap being provided with a central opening, a head including an upward extension slidably received within the opening in said cap, means on said head for locking it to said lower shore-part, and means for holding said head in different longitudinal positions relative to said upper shore-part.

1,782,904. BOTTLE-CROWNING MACHINE. VALENTINE J. MOHLER, Wheaton, Ill., assignor, by mesne assignments, to The Liquid Carbonic Corporation, Chicago, Ill., a Corporation of Delaware. Filed Jan. 8, 1923. Serial No. 611,326. 19 Claims. (Cl. 226—84.)

1. In a bottle crowning machine, a rotary carrier, a series of crowning heads reciprocable on said carrier, a normally stationary cam for reciprocating said crowning heads as they are revolved, a housing to which said cam is secured, a standard, a pair of guide rods on said standard, eyes on the housing sliding on said guide rod and means for vertically adjusting and locking the housing on said guide rods.



2. In a bottle crowning machine, a rotary bottle support, a rotary carrier, a series of crowning heads reciprocable vertically in said carrier, a stationary cam for reciprocating said crowning heads as they are revolved, a cam support vertically adjustable for bottles of different sizes and a gauge arm on said cam support removable into and out of the path of the bottles and adapted to cooperate with a bottle to gauge the vertical adjustment of the cam support.

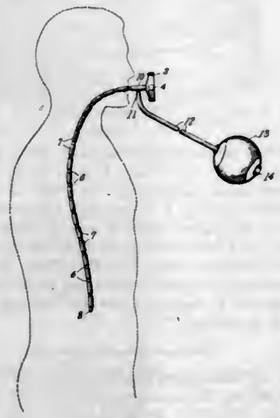
11. In a machine of the class described a movable bottle support, a bottle crowner in vertical alignment and movable therewith, a crown presenting head having a channel in the bottom thereof in the line of movement of the bottle support to receive the mouth of a bottle to be crowned, said device having a channel intersecting the above-described channel at an acute angle to the horizontal and adapted to convey crowns into a position to be engaged by bottles passing beneath said head, and means for yieldingly holding the crowns in position to be engaged by the bottle heads.

1,782,905. BOTTOM BAR FOR CURTAINS. JOHN L. MOHUN and HENRY PIESCH, Omaha, Nebr., assignors to National Lock Washer Company, Newark, N. J., a Corporation of New Jersey. Filed Dec. 9, 1929. Serial No. 412,627. 7 Claims. (Cl. 156—31.)



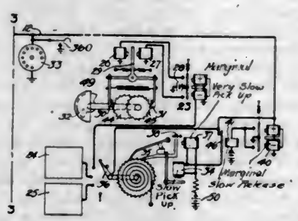
3. A bottom bar structure for curtains consisting of a hollow bottom bar made of sheet metal having its edges at the top, between which edges the lower portion of the curtain is held, means to assist in frictionally holding said curtain in contact with the bottom bar, and a clamping strip for holding the edges of the bottom bar from spreading.

1,782,906. DEVICE FOR TREATING THE STOMACH WITH ULTRA-VIOLET RAYS. MORRIS S. NEWMAN, Newark, N. J. Filed Oct. 10, 1929. Serial No. 398,609. 3 Claims. (Cl. 174—177.)



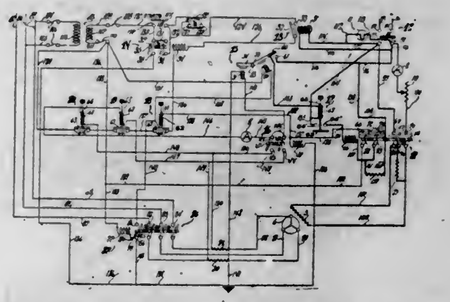
1. A device for treating the stomach with ultra-violet rays comprising a plurality of spaced quartz cylinders, flexible rubber tubing connecting said cylinders, a hood connected to the uppermost cylinder, means for attaching the hood to a source of ultra-violet rays, and a lens in said hood to direct ultra-violet rays to the cylinders.

1,782,907. REMOTE CONTROL SYSTEM. JOHN F. NIELSEN, Long Island City, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 26, 1925. Serial No. 4,982. 10 Claims. (Cl. 177—353.)



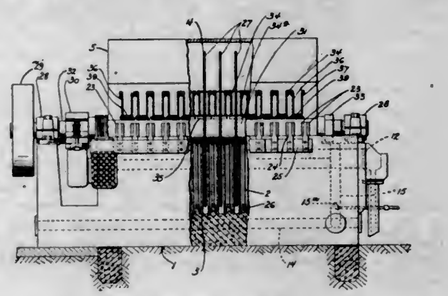
1. A remote control system comprising a station, a plurality of devices thereat movable in opposite directions to a plurality of positions, polarized relay means associated with each device for moving it in opposite directions depending upon the polarity of the impulses supplied to the relay means and to an extent depending upon the number of such impulses, a remote station, a line connecting the remote station with the first mentioned station, selecting means at the first mentioned station for selectively associating said polarized relay means with said line, means for controlling said selecting means in response to impulses transmitted over said line, said means for controlling said selecting means being operated by impulses of less strength than that required to effectively operate the polarized relay means, means at the remote station for sending impulses over said line of a strength to operate only the selector controlling means, means at the remote station for transmitting impulses of positive or negative polarity of increased strength over said line, and means associated with said line and responsive to the increased strength impulses of either polarity to disassociate the means for controlling the selector from said line while said increased strength impulses are being transmitted.

1,782,908. STARTING DEVICE FOR SYNCHRONOUS MOTORS. WALTER S. PFEIFER, Shorewood, Wis., assignor, by mesne assignments, to The Reliance Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 14, 1923. Serial No. 680,642. 24 Claims. (Cl. 172—289.)



18. In a starting system for synchronous motors, electro-responsive switch mechanism for connecting the field of the motor to a direct current supply circuit for running, and means for controlling said switch mechanism including a relay operated responsively to the variation of starting current in the motor, said relay connecting the direct current supply circuit to the motor field when the acceleration of the motor decreases to synchronous speed.

1,782,909. APPARATUS FOR THE ELECTRO DEPOSITION OF IRON. ROBERT D. PIKE, Piedmont, Calif. Filed July 20, 1926. Serial No. 123,626. 5 Claims. (Cl. 204—5.)

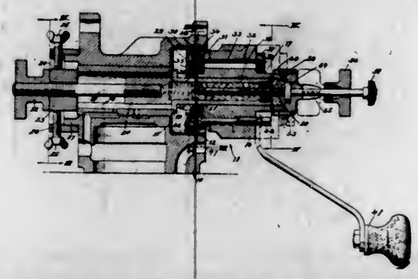


1. A cell for electrolytic deposition of iron comprising a plurality of alternating anode and cathode compartments separated from each other by porous diaphragms, insoluble anodes suspended in the anode compartments, rotating disc cathodes mounted on a shaft and dipping into the electrolyte in the cathode compartments, the upper part of said disc being above the level of the electrolyte, means for introducing fresh electrolyte into the cathode compartment, and an overflow wier for keeping a substantially constant level of catholyte, means for causing a downward circulation of anolyte in the anode compartment, means for heating the anolyte during such circulation, and means for withdrawing the net flow of anolyte from the cell and maintaining its level slightly below that of the catholyte.

1,782,910. TRIPLE-VALVE REAMER. JAMES R. RICKETTS, Richmond, Calif., assignor to National Air Brake Service, Inc., Reno, Nev., a Corporation of Nevada. Filed July 1, 1926. Serial No. 119,907. 4 Claims. (Cl. 77—2.)

1. A triple valve reaming tool comprising a mandrel adapted to extend axially through a triple valve body and

be clamped thereto, a tool head mounted on said mandrel and capable of rotary and axial movement thereon, said head adapted to be inserted within the cylinder bushing of the valve body for operation therein, indicating means carried by the tool head and adapted to constantly engage the bore of the cylinder bushing when the head is positioned therein, said indicating means including a calibrated scale and a cooperating indicator hand arranged on the tool head at a visible point to indicate the differ-



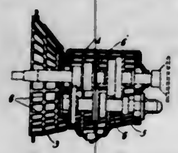
ences in diameter of the bore of the bushing at different points therealong or the amount of eccentricity of the head with relation to the bore when the head is revolved and moved axially of the bushing, a cutting tool carried by the head and normally held in an inoperative position during the operation of the indicating means, means for positioning and maintaining said tool in an operative position without removing the head from the bushing after the head has been centered and the low spot located in the bushing.

1,782,911. LIP-STICK DEVICE. JOHN SCRIMGEOUR, Toronto, Ontario, Canada. Filed May 16, 1930. Serial No. 452,964. 6 Claims. (Cl. 132—1.)



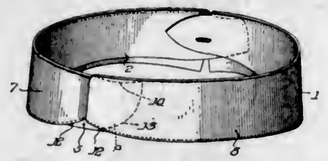
1. A device of the class described comprising a casing shaped in simulation of the human lips, a follower plate in the casing shaped similar to the casing, means for moving the follower plate, a divider plate across the casing at the open front end thereof and extending longitudinally.

1,782,912. METHOD FOR ELIMINATING NOISE IN MACHINERY. HOMER C. SNOOK, South Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Continuation of application Serial No. 47,299, filed July 31, 1925. This application filed June 15, 1927. Serial No. 199,017. 3 Claims. (Cl. 74—56.)



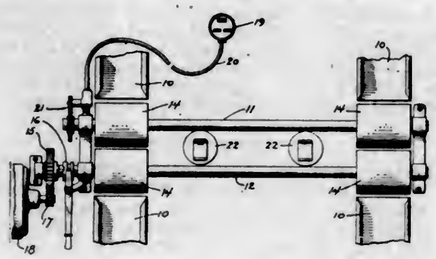
1. The method of designing housing walls for machinery, which consists in ascertaining the tone most readily transmitted by such walls, ascertaining the energy transmitted to such walls under the normal operation of such machinery and changing the stiffness of such walls to a point where the tone most readily transmitted requires an amount of energy greater than that available.

1,782,913. FOLD COLLAR. ROBERT J. THOMPSON, Paris, France. Filed Jan. 12, 1926. Serial No. 80,820. 3 Claims. (Cl. 2—138.)



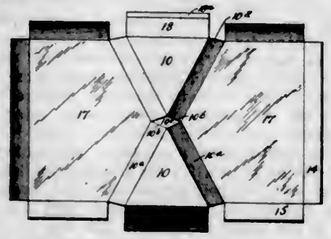
1. A collar of the type described, comprising an inner member which is continuous from end to end, the free ends thereof being located at the front of the collar, an outer member having a transverse separation therein at the back of the collar forming spaced ends of said outer member at said back, and means on one of the ends of said outer member extending therefrom and underlying the adjacent end portion thereof for releasing the tension thereof against a cravat to permit the same to slide between said members.

1,782,914. SPEEDOMETER-TESTING MACHINE. ELVIN E. TOWNSEND, Watsonville, Calif. Filed July 18, 1928. Serial No. 293,698. 2 Claims. (Cl. 72—51.)



2. A speedometer testing device including a master speedometer drive shaft provided with a pair of rollers, a master speedometer gearing connecting the master speedometer with the said drive shaft, a transmission shaft spaced from the drive shaft and provided with a pair of rollers cooperating with the rollers of the drive shaft to support the wheels of an automobile, the said drive shaft being actuated solely through contact with the said automobile wheels, a motor, gearing for communicating motion from the motor to the transmission shaft, and a clutch for connecting and disconnecting the motor from the transmission shaft, whereby the device may be actuated either by the said motor or by the motor of an automobile.

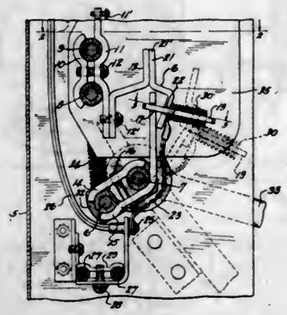
1,782,915. BOX INSERT. JOHN RUSSELL WEIDNER, Reading, Pa., assignor to The Nolde and Horst Company, Reading, Pa., a Corporation of Pennsylvania. Filed Mar. 8, 1929. Serial No. 345,268. 4 Claims. (Cl. 229—15.)



1. A sheet-material box-fitting insert consisting of a supplementary box bottom having portions thereof ele-

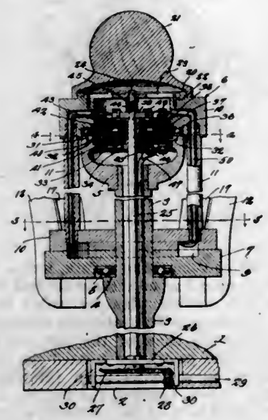
vated to form V-shaped platforms converging laterally at a point intermediate the length thereof; each of said platform portions having vertical marginal supports formed by bent-up connecting portions of the bottom.

1,782,916. ELECTRIC SWITCH. HARRY E. CAMPBELL and EARL F. MEKELBURG, Milwaukee, Wis., assignors, by mesne assignments, to Cutler-Hammer, Inc., a Corporation of Delaware. Original application filed Sept. 8, 1927, Serial No. 218,267. Divided and this application filed Jan. 21, 1929. Serial No. 333,825. 7 Claims. (Cl. 200—164.)



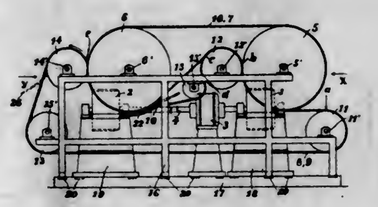
1. An electric switch, comprising a fixed contact member, a movable arm having opposite edge recesses, a retainer member having a central opening through which the movable arm extends and the recessed portions thereof are entered by portions of the retainer member, a movable contact member extending through the retainer member and having recessed edge portions which are entered by portions of the retainer member, and a yielding means extending into the opening of the retainer member and engaging and holding the movable contact member in position on the movable arm and also permitting a yielding movement of the movable contact member when said member engages the fixed contact member.

1,782,917. LAMP. HARVEY CARLSON, Cheboygan, Mich. Filed June 17, 1929. Serial No. 371,488. 4 Claims. (Cl. 240—49.)



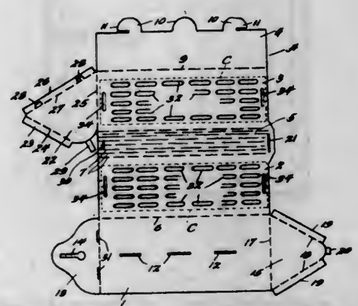
4. In a device of the class described, a pedestal having a head at its upper end and provided with a shoulder located below the head, a lantern including a base, a top, posts connecting the base with the top, and arms extended upwardly from the base, lamps on the arms, the base being supported on the shoulder, and a circuit including the lamps, the circuit being located partly on the lantern and partly on the pedestal, and mechanism interposed in said circuit for maintaining the continuity thereof when the lantern is rotated on the pedestal, a portion of said mechanism being carried by the head of the pedestal, and a cooperating part of the mechanism being carried by the top part of the lantern.

1,782,918. DECORTICATING AND DEPULPING MACHINE. KARL ERB, Frankfort-on-the-Main-Griesheim, Germany. Filed Apr. 6, 1929, Serial No. 358,133, and in Germany Sept. 17, 1927. 9 Claims. (Cl. 19—12.)



1. In a leaf decorticating machine of the type having two scraping drums arranged one beyond the other in the direction in which the leaves are carried past said drums by a conveyer, comprising an upper set and a lower set of endless ropes, the combination with said scraping drums and conveying ropes of means for protracting the leaves under treatment in their longitudinal direction transversely to the conveying ropes after having been decorticated by the first scraping drum, and of guiding means cooperatively associated with the endless conveying ropes so as to deflect the depending ends of the protracted leaves into working contact with the second scraping drum.

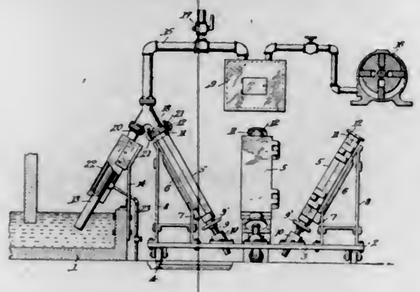
1,782,919. DISINFECTING CONTAINER. ABRAM L. FELDMAN, Atlanta, Ga. Filed Aug. 31, 1929. Serial No. 389,815. 7 Claims. (Cl. 299—24.)



2. A foldable container comprising a blank divided into sections, the sections being foldable relatively to provide

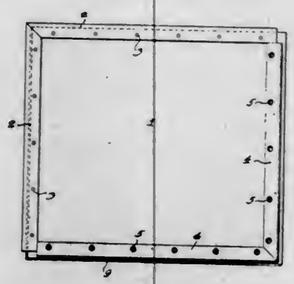
a structure triangular in configuration, certain of the sections being apertured for the passage of air, adjustable means coacting with said apertured sections to effect opening and closing of said apertures, and means to effect interlocking engagement of the sections to retain them in the form of a container.

1,782,920. APPARATUS FOR CASTING ZINC SLABS AND THE LIKE. DANIEL M. GRAY and JOHN J. WILLIAMS, Wheeling, W. Va., assignors to Hazel-Atlas Glass Co., Wheeling, W. Va., a Corporation of West Virginia. Filed Oct. 27, 1928. Serial No. 315,516. 7 Claims. (Cl. 22—73.)



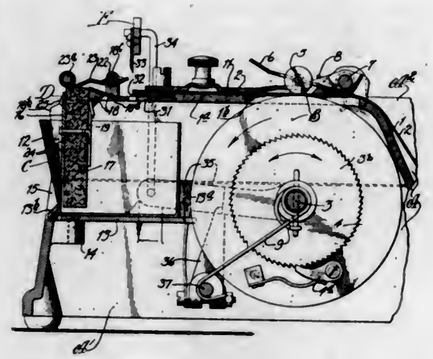
1. Casting apparatus for metal slabs, including a furnace for the molten metal, a substantially air-tight mold adjacent said furnace, a source of vacuum, communicating conduits leading from the source of vacuum to said furnace and mold, and a heater associated with one of said conduits.

1,782,921. PANEL FOR MOLD WALLS. FRANK J. GREMEL, Detroit, Mich.; Caroline Gremel executrix of said Frank J. Gremel, deceased. Filed Jan. 26, 1929. Serial No. 335,212. 6 Claims. (Cl. 25—131.)



4. In a panel for a mold wall, strips secured to said panel at two adjacent edges thereof, receiving strips secured by means of spacers at the remaining edges of said panel, said spacers being spaced from each other, said first named strips projecting beyond the edges at which they are secured, and said receiving strips being set back from the edges at which they are secured.

1,782,922. STRIP-SERVING MACHINE. WOLFGANG HERMANN, Chicago, Ill., assignor to Metal Specialties Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed May 31, 1928. Serial No. 281,802. 9 Claims. (Cl. 91—38.)

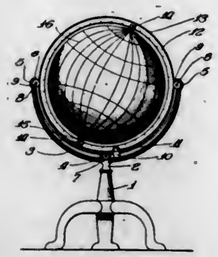


2. In a machine of the character set forth, the combination of a frame, a water font removably-supported in the front portion thereof, a holder detachably supported on said water font, a capillary moistener-element mounted in said holder, and a presser-member movably mounted on said holder and co-acting with said moistener-element.

1,782,923. PURIFYING PIG IRON. KONRAD HOFMANN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed May 9, 1929, Serial No. 361,831, and in Germany May 25, 1928. 3 Claims. (Cl. 75—27.)

1. The process consisting in purifying pig iron by means of a dephosphorizing and desulphurizing slag to which carbon has been added.

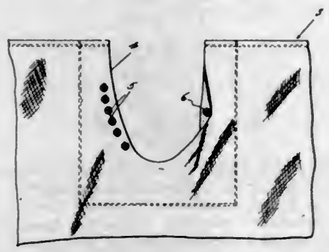
1,782,924. MOVABLE MERIDIAN FOR GLOBES. JOHN F. JOHNSON, Chicago Heights, Ill., assignor to Weber Costello Company, Chicago Heights, Ill., a Corporation of Illinois. Filed Jan. 9, 1930. Serial No. 419,487. 4 Claims. (Cl. 35—5.)



1. A globe device comprising a fork, means for supporting the same, a plurality of sockets formed on said fork, partitions in said sockets, pins journalled in said partitions, a pair of flanged rollers rotatably engaged on each of said pins on opposite sides of the partitions, with said flanges of the rollers positioned toward the outside, a peripherally flanged movable meridian rotatably supported on said pairs of rollers between the flanges of the respective pairs of rollers to hold the meridian against sidewise movement, a bracket supported on said fork, a set-screw adjustably engaged through said bracket and projecting to the inside of the peripheral flange of the meridian to permit rotation of the meridian with respect to the fork and

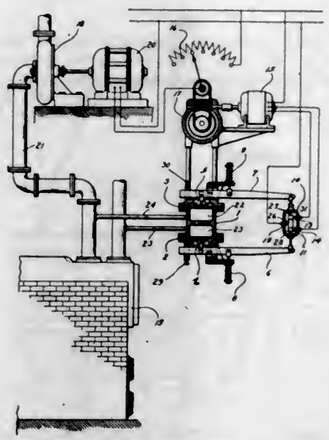
acting to hold the meridian against removal from said rollers, said set-screw adapted to be adjusted to lockingly engage the movable meridian to hold the same set in a predetermined position of adjustment, an axis journalled in said meridian, and a globe ball rotatably supported on said axis within the meridian.

1,782,925. HAIRCLOTH. PAUL JUNAS, Jr., Lansford, Pa. Filed June 20, 1929. Serial No. 372,450. 1 Claim. (Cl. 2—50.)



As a new article of manufacture, a barber's accessory comprising a combined hair cloth and shampoo apron composed of a single length of rubberized cloth having a gloss finish to render it susceptible of readily shedding the clipped hair, said cover having a cut-out neck yoke portion, cut inwardly from one end thereof defining a neck accommodating opening, a plurality of fastener members secured to the cloth adjacent one edge of the opening, and a single fastener element secured to the cloth adjacent an opposite edge of the opening and adapted to engage selectively the first mentioned fastener members.

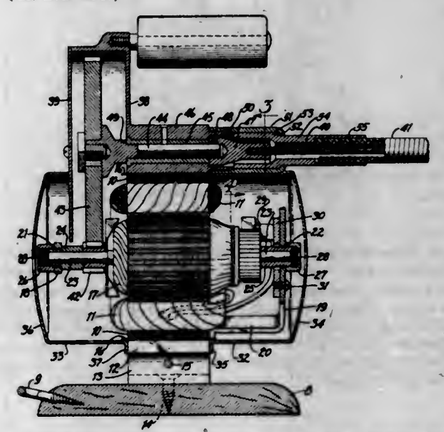
1,782,926. METHOD OF AND APPARATUS FOR CONTROLLING BOILER FEED WATER. JAMES LEWIS KIMBALL, Beverly, Mass., assignor to Ruggles-Klingemann Mfg. Co., Salem, Mass. Filed May 21, 1927. Serial No. 193,362. 13 Claims. (Cl. 122—452.)



1. The method of controlling boiler feed-water which consists in automatically maintaining the feed line pressure a predetermined value in excess of the steam pressure in the boiler for a mean average boiler pressure, and automatically increasing the feed line pressure on a decrease in boiler pressure, and automatically decreasing the feed line pressure on an increase in boiler pressure.

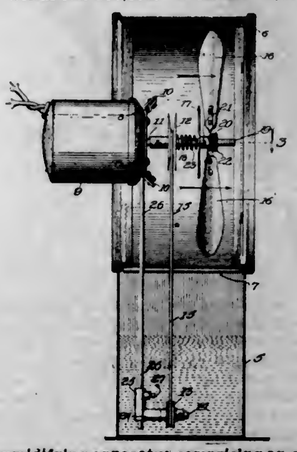
3. In a regulating system for maintaining a boiler feed line pressure differential for feeding the boiler with water, governing means for maintaining a predetermined feed line pressure in excess of the steam pressure in the boiler for a mean average boiler pressure, and governing means for increasing the feed line pressure on a decrease in steam pressure, said governing means likewise decreasing the feed line pressure on an increase in steam pressure.

1,782,927. ELECTRIC POWER DEVICE. JAMES S. KNOWLSON, Hinsdale, Ill., assignor to Speedway Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 5, 1928. Serial No. 310,664. 3 Claims. (Cl. 172—36.)



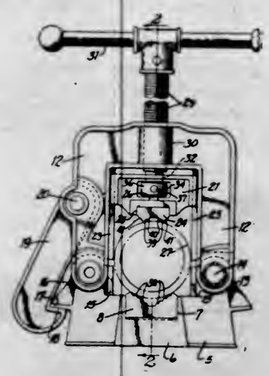
1. An electric power device comprising a stator and rotor and forming a unit, a casing of current-conducting material for said stator and rotor, means insulating said casing from said stator and rotor, a driven shaft journalled on said casing, and gearing connecting said rotor with said shaft, one of the gears thereof comprising current-insulating material.

1,782,928. HUMIDIFIER. JAMES S. KNOWLSON, Hinsdale, Ill., assignor to Speedway Manufacturing Company, Cicero, Ill., a Corporation of Illinois. Filed Nov. 11, 1929. Serial No. 406,354. 3 Claims. (Cl. 261—80.)



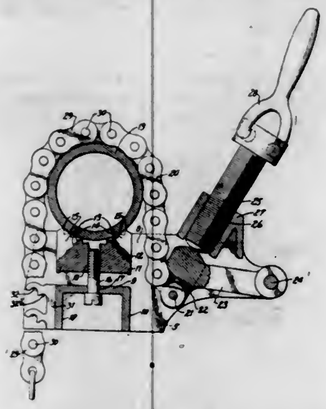
1. A humidifying apparatus comprising an endless traveling element formed of a coil spring, means for driving said element, means for contacting said element with the liquid to be discharged from the apparatus, and means for subjecting the liquid, carried by said element, to a blast of air.

1,782,929. VISE. TIDEMAN M. LILLEBERG, Chicago, Ill., assignor to Nye Tool & Machine Works, Chicago, Ill., a Corporation of Illinois. Filed Feb. 4, 1929. Serial No. 337,338. 6 Claims. (Cl. 81—39.)



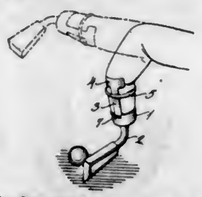
1. In a vise, the combination of teeth-equipped, directly opposed, jaws relatively movable toward and away from each other, the teeth on one of said jaws being arranged in series which diverge upwardly toward the other of said jaws, and certain of the teeth on the other of said jaws being so shaped as to extend into the valleys between certain of adjacent teeth on said first-named jaw in one position of the jaws.

1,782,930. VISE. TIDEMAN M. LILLEBERG, Chicago, Ill., assignor to Nye Tool & Machine Works, Chicago, Ill., a Corporation of Illinois. Filed Feb. 4, 1929. Serial No. 337,339. 2 Claims. (Cl. 81—19.)



2. A vise comprising an attaching plate having an upstanding wall at one edge thereof, said wall being elongated and projecting at one side beyond the plate, an upstanding wall parallel to and substantially coextensive with said first-mentioned wall, a hollow web means integral with said walls, said walls above said web means having cutaway portions, a jaw disposed over the web means and engaging said cutaway portions, a fastening extending through the web means and engaging the jaw to hold the same in place, a fulcrum member connecting said walls and disposed remote to the plate, a lever operable between said walls and pivoted on said fulcrum member, a flexible clamping element secured to the lever, means whereby said clamping element may be anchored relatively to said walls, said jaw at opposite sides thereof being cutaway to accommodate the flexible element when engaged with relatively small work, and adjusting means mounted on one of said walls and operable against said lever.

1,782,931. GOLF CLUB. DANIEL G. LILLEY, Denver, Colo. Filed Oct. 22, 1928. Serial No. 314,096. 4 Claims. (Cl. 273—87.)

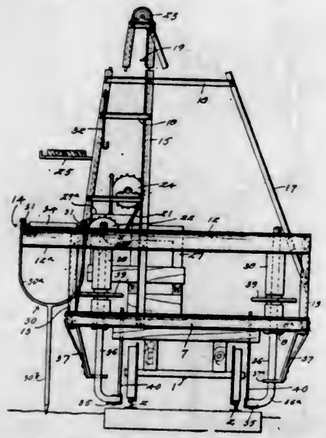


1. A finger attachment for securing an implement to a finger comprising a cup-shaped member adapted to receive the tip of a finger, diametrically placed narrow resilient clamping members extending upwardly from the open end of the cup-like member, each of said members being provided at its free end with an inwardly concave gripping surface adapted to engage the sides of a finger, directly above the first joint, and resilient means for urging the gripping surfaces against the finger.

1,782,932. LUTE. ROBERT B. MCCARTY, Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa., a Corporation of Texas. Filed Sept. 6, 1927. Serial No. 217,882. 2 Claims (Cl. 106—8.)

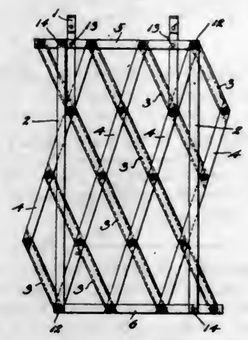
1. As a new luting material a mixture of fine ground burnt clay and strong caustic solution in about the proportions of 65 per cent ground burnt clay and 35 per cent 40° Bé. caustic soda solution.

1,782,933. ELEVATOR. FINLEY MONROE, Emmett, Idaho. Filed Nov. 14, 1929. Serial No. 407,191. 2 Claims. (Cl. 198—126.)



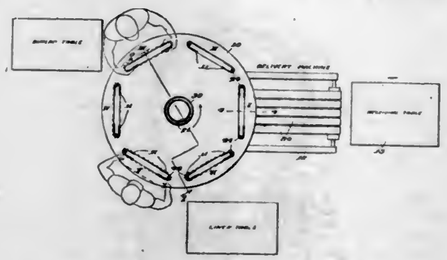
1. In combination, a flat car, an elevator having a base resting upon the car, straps secured to the base near the corners thereof and provided with openings, brackets extending downwardly from the corners of the base and provided with inturned lower ends having openings alining with the openings in the straps, vertical jack screws slidably mounted in the openings of the straps and brackets, nuts rotatably mounted on the base and engaging the jack screws, foot bars secured to the lower ends of the jack screws, and braces secured to the base and brackets.

1,782,934. COMBINED CULTIVATOR HARROW. ALFRED OLSSON, Guytasa, Sweden. Filed Oct. 23, 1929, Serial No. 401,813, and in Sweden Oct. 24, 1928. 1 Claim. (Cl. 55—3.)



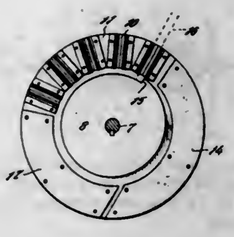
A combined cultivator-harrow of the class described, comprising a frame composed of a plurality of diagonally arranged channel bars, a plurality of flat bars diagonally arranged and extending in opposite direction to the channel bars, end bars connecting said diagonal bars together, side bars connecting said end bars together, said side bars constituting skids when the implement is inverted, drafthooks secured to one of said end bars and to the diagonal bars, pin members slidably carried by said drafthooks to close the same, said pin members having stop nuts intermediate the ends thereof to prevent displacement of said pin members from the drafthooks, a plurality of teeth arranged in rows and carried by said diagonal bars, the teeth of certain of said rows being curved and the teeth of certain other rows being straight, said teeth having shank portions formed to seat in the channels of the said channel bars to interlock the teeth and prevent shifting of the same with respect to the bars, and clamping means threadably engaging the extremity of the teeth for securing the said teeth and bars together.

1,782,935. BAG-TURNING MACHINE. HERBERT W. ORNDOFF, New Orleans, La., assignor to The E. V. Benjamin Co., Inc., New Orleans, La., a Corporation of Louisiana. Filed May 8, 1928. Serial No. 276,118. 14 Claims. (Cl. 223—20.)



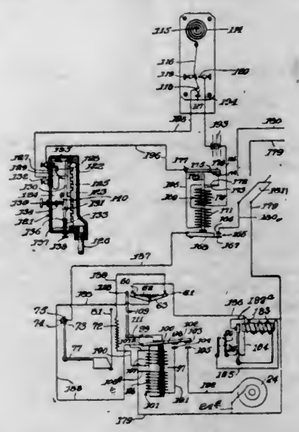
1. In a bag turning machine, a moving support, a bag holding member located on said support, a bag turning element carried on and guided by said support for movement with respect to the bag holder whereby to reverse a bag located on the latter, and means to move the bag turning element in one direction during one part of the movement of the support, and to return it during another part of such movement, said bag turning element being held against movement during a part of the movement of the support while the said element is free of the bag holding means.

1,782,936. ORDER CRANE. BRAYTON M. PERKINS, Mounds, Utah. Filed Apr. 16, 1929. Serial No. 355,444. 3 Claims. (Cl. 258—2.)



1. A device of the class described comprising a supporting structure, a shaft on the supporting structure, a pair of plates rotatable on the shaft and means urging said plates to rotate in one direction, clips fixed between the peripheral portions of the plates and arranged in spaced pairs to receive shanks of order hoops, a disk fixed on said shaft with a shoulder formed on said disk with which the extremities of the order hoop shanks may engage.

1,782,937. CONTROLLING MECHANISM FOR OIL BURNERS. STANLEY PERRY, Chicago, Ill., assignor to Automatic Burner Corporation, Chicago, Ill., a Corporation of Illinois. Filed Apr. 21, 1928. Serial No. 271,837. 8 Claims. (Cl. 158—28.)

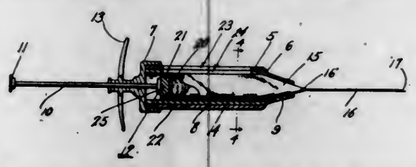


1. The combination of a furnace, a burner therefor, fuel-supplying means for the burner, ignition means for the burner, electrical means controlled by the heat generated by the burner for controlling said fuel-supplying means and said ignition means and comprising a switch which, when closed, causes said ignition means to be energized and means for opening said switch after the igniting of the fuel at said burner, and releasable means comprising a movable member forming a stop for locking said switch against return to closed position following extinguishment of the flame at said burner.

1,782,938. HYPODERMIC SYRINGE. DELMER I. FLETCHER, Long Beach, Calif. Filed May 11, 1928. Serial No. 276,962. 3 Claims. (Cl. 128—218.)

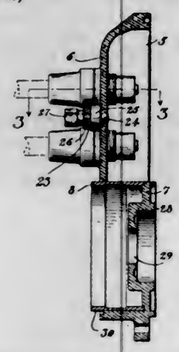
1. In combination with a syringe having a plunger rod and a barrel formed with an inwardly tapered outer end,

a sleeve-like adapter in the barrel having a tapered outer end which conformably engages said tapered end of the barrel and projects therebeyond, and a cartridge within and



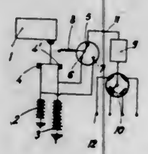
engaged with the inner circumference of the adapter and having a tapered end provided with a needle, said cartridge having a piston at its inner end to engage with the plunger rod of the syringe.

1,782,939. MAGNETO. CURT FREDERICK REIS, Chicago, Ill., assignor to Excel Magneto Company, Chicago, Ill. Filed Nov. 16, 1929. Serial No. 407,787. 8 Claims. (Cl. 171—209.)



1. In a magneto a combined end-plate, distributor housing and breaker housing constructed of molded insulating material.

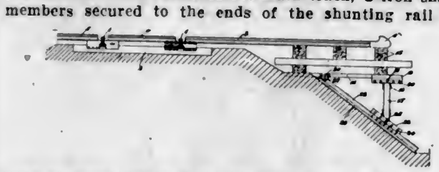
1,782,940. APPARATUS FOR IGNITING INTERNAL-COMBUSTION ENGINES. LEON SAIVES, Billancourt, France, assignor to Louis Renault, Billancourt, France. Filed Oct. 1, 1927, Serial No. 223,461, and in France Oct. 13, 1926. 2 Claims. (Cl. 123—179.)



1. An ignition system for internal combustion engines comprising an electric generator, a main battery and an auxiliary battery included in separate circuits with said generator, a double circuit breaker controlling said circuits, and a two-way switch adapted to connect the batteries selectively with the ignition apparatus.

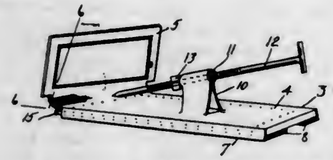
1,782,941. DEVICE FOR SHUNTING VEHICLES OFF A MAIN LINE OF TRACK. AUGUSTE SCHEUCHZER, Renens, Switzerland. Filed Nov. 19, 1929, Serial No. 408,200, and in France Dec. 26, 1928. 4 Claims. (Cl. 238—10.)

1. A device of the class described, comprising, in combination with a main line of track, a shunting track adapted to be placed transversely to the main track, each rail of said shunting track being divided into a first rail section placed outside the main track and a second rail section placed between the rails of the main track, U-iron shaped members secured to the ends of the shunting rail sec-



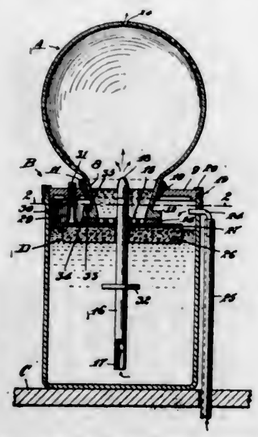
tions adjacent the rails of the main track, and a channel iron secured to the U-iron member of the first rail section and adapted to extend below the rail of the main track for connection with the U-iron member of said second shunting rail section.

1,782,942. RECORD-CARRYING DEVICE FOR AUTOMOBILES. EUGENE H. SOUTER, Independence, Mo., assignor to The Car-Record Company, Kansas City, Mo., a Corporation. Filed June 27, 1929. Serial No. 374,233. 3 Claims. (Cl. 40—10.)



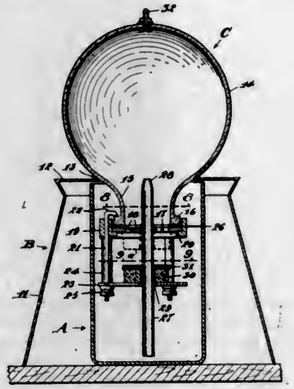
1. A record carrying device for automobiles comprising a flat elongated case having edge portions terminating in flanges projecting inwardly of the case and adapted to support thereon a writing plate and an upwardly extending transverse frame portion at one end and adapted to bear upon the front side of the instrument board, an upwardly extending lug mounted on the upper side of the case and having an obliquely disposed screw threaded head portion, and a supporting and adjusting screw rod operably mounted in the oblique head on said lug, and adapted to engage the inner side of the angle portion of an automobile instrument board to supportingly adjust the case on the same.

1,782,943. LIQUID-DISPLAY APPARATUS. FORREST G. STANFORD and GUY BAKER, Los Angeles, Calif.; said Baker assignor to George H. Hyland, Los Angeles, Calif. Filed Sept. 9, 1929. Serial No. 391,444. 8 Claims. (Cl. 40—126.)



1. In a liquid display apparatus, a reservoir adapted to contain a liquid, a display container invertedly communicable with said reservoir, float valve controlled means operable by liquid in said reservoir for causing intermittent flow of a liquid from said reservoir to said container when fluid pressure is developed in said reservoir, and means controlled by said valve for developing fluid pressure in said reservoir.

1,782,944. LIQUID-DISPLAY FOUNTAIN. FORREST G. STANFORD and GUY BAKER, Los Angeles, Calif.; said Baker assignor to George H. Hyland, Los Angeles, Calif. Filed Sept. 10, 1929. Serial No. 391,612. 10 Claims. (Cl. 40—126.)



1. In a liquid display apparatus, a liquid reservoir, a display container having a downwardly opening neck projecting into said reservoir, means for maintaining air pressure in said container less than air pressure externally thereof, a tube leading from said reservoir into said container, a valve seat on the end of said neck surrounding said tube, a float valve guided on said tube, and a stop limiting downward movement of said float valve carried on said container.

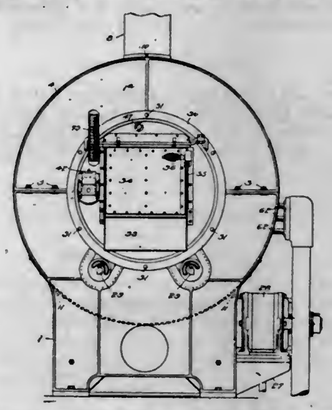
1,782,945. ELECTRICALLY-DRIVEN LOOM. EDWIN W. STONE, Longmeadow, Mass., and EUGENE MARTIN, Suffield, Conn., assignors to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn., a Corporation of Massachusetts. Filed June 28, 1929. Serial No. 374,375. 14 Claims. (Cl. 139—336.)



1. In a loom, in combination, a lay provided with shuttle boxes, a crank shaft for moving the lay towards and from the front of the loom, an electric motor, gearing connection between the motor and loom for driving the crank shaft, an electrically controlled brake for the motor, a pair of electrically operable switches one for starting and stopping the motor and the other for controlling the application and release of the brake, an electric circuit for actuating said switches, and manually operable switch mechanism in said circuit and adapted to shift either a single control switch to actuate the brake, or both of said switches simultaneously to control the brake and motor.

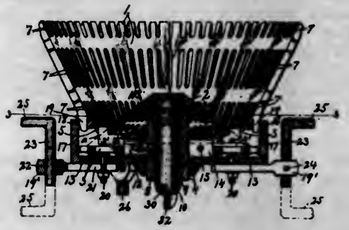
1,782,946. ROASTING APPARATUS. ROBERT H. TALBUTT, deceased, Baltimore, Md., by Ralph Robinson, administrator, and FREDERICK A. ALLNER, Baltimore, Md. Filed Apr. 18, 1929. Serial No. 356,071. 18 Claims. (Cl. 34—5.)

1. In a roasting apparatus, the combination of an electrical heating unit mounted within a roasting chamber, means for moving the material to be roasted through said chamber, a large area of said unit being directly exposed to the material passing through the chamber to roast the material primarily by radiation, a baffle only partially



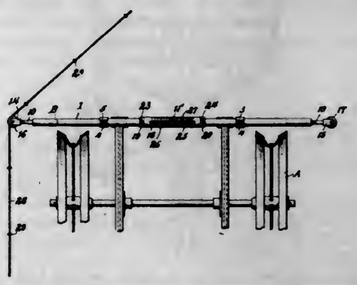
surrounding said unit for preventing the material contacting with the unit, and means comprising a conduit for supplying heated air directly between said baffle and unit for augmenting roasting of the material by convection.

1,782,947. HEATER. GEORGE F. VASEY, Scranton, Pa., assignor to Ridgely Heater Company, Scranton, Pa., a Corporation of New Jersey. Filed May 18, 1927, Serial No. 192,260. Renewed Oct. 3, 1930. 11 Claims. (Cl. 126—152.)



1. In a coal burner, coaxial circular grates extending entirely around a central vertical axis having opposed downwardly converging fuel engaging surfaces in spaced relation at the bottom, the vertex of convergence of said surfaces being in vertical alinement with the intervening space and a horizontal grate underlying said space.

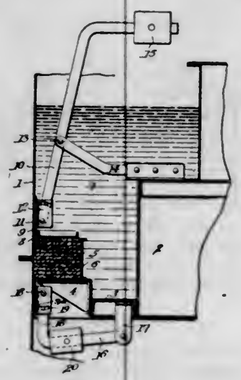
1,782,948. CHECK-WIRE GAUGE FOR CORN PLANTERS. ERNEST A. VERNIA, Odebolt, Iowa. Filed June 26, 1929. Serial No. 373,854. 6 Claims. (Cl. 111—47.)



1. A device of the character described comprising a sleeve for detachable connection with a planter, a rod

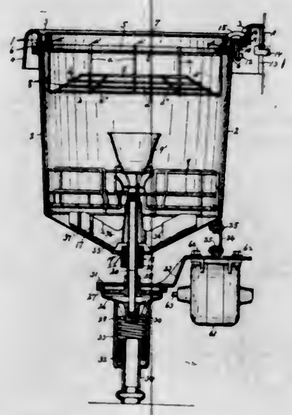
slidable in the sleeve and carrying rollers at opposite ends thereof, a pointer on said rod movable therewith upon contact of one of said rollers with a check wire, an indicia carrying sleeve having a scale thereon cooperating with said pointer, and means for maintaining said pointer intermediate the ends of said indicia carrying sleeve.

1,782,949. GAS HOLDER. FREDERICK HENRY WAGNER, Baltimore, Md., assignor to The Bartlett Hayward Company, Baltimore, Md., a Corporation of Maryland. Filed Nov. 3, 1927. Serial No. 230,868. 6 Claims. (Cl. 48—176.)



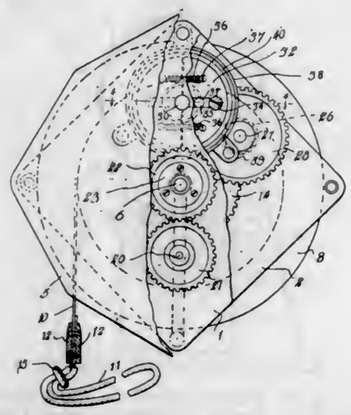
6. In a waterless gas holder the combination of a shell; a movable piston-like closure located therein; an absorptive sealing medium extending around the closure, the outer face of said medium contacting the inner face of the shell; means for holding a body of liquid in contact with said sealing medium; and means cooperative with said medium at its outer edge to prevent displacement or curling thereof during movement of the closure.

1,782,950. MECHANICAL DISHWASHER. FORREST A. WALKER, Syracuse, N. Y., assignor to Walker Dishwasher Corporation, Syracuse, N. Y., a Corporation of New York. Original application filed July 24, 1926, Serial No. 124,640. Divided and this application filed July 2, 1928. Serial No. 289,999. 1 Claim. (Cl. 141—9.)



In a mechanical dishwasher, a horizontal frame-section having a circular opening therethrough, a circular vat having its upper end engaging the frame-section around the opening, means for supporting the frame-section independently of the vat, separate means for securing the vat to the frame-section, and a circular openwork dish-supporting tray supported on said frame section within the opening independently of the vat.

1,782,951. FIRE ESCAPE. CECIL CORNELIUS ABBOTT, Harbor Springs, and WILLARD EARL BASSETT, BERT LESLIE BASSETT, and IRVIN LOUIS BASSETT, Detroit, Mich. Filed Sept. 20, 1928. Serial No. 307,153. 1 Claim. (Cl. 227—22.)



A fire escape comprising a frame including a pair of side walls and a partition between and parallel with the side walls, a main shaft extending through the frame, a drum secured on said shaft between one side wall and the partition, a gear disposed between the partition and the other side wall of the frame and fixed to the shaft, a governor arranged adjacent the last-mentioned side wall of the frame, a train of gearing connecting the shaft with the governor and including a gear loose upon the shaft, a ratchet rigid with the side of said loose gear, a mating ratchet slidably mounted on the shaft and constrained to rotate therewith, expansion springs between the fixed gear and slidably mounted ratchet and tending constantly to hold the two ratchets in engagement, a winding handle loosely fitted on the shaft, a pinion rigid with said handle and held against movement endwise of the shaft, and gearing connecting said pinion with the gear which is fixed to the main shaft.

1,782,952. BURNING-IN TOOL. CARL F. ALLGAIER, Joliet, Ill. Filed July 22, 1929. Serial No. 380,186. 2 Claims. (Cl. 219—21.)



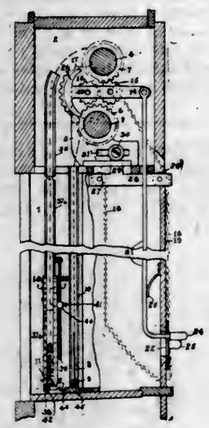
1. A tool for repairing and finishing varnished surfaces comprising a manipulating handle, a varnish and furniture engaging implement detachably connected with the handle, a shell secured to one face of the implement, a heating coil in said shell, feed and return wires extending into the shell and connected with the heating coil, an inclined extension formed on the implement arranged beyond the shell, and a guard plate formed on said handle and overlying said shell.

1,782,953. SCREEN FOR DISINTEGRATING MACHINES. ARNO ANDREAS, Munster, Germany. Filed Feb. 23, 1928, Serial No. 256,297, and in Germany Apr. 1, 1927. 2 Claims. (Cl. 83—9.)



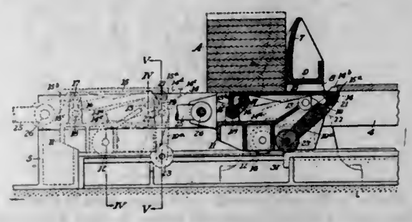
1. Separator comprising a cylindrical outer shell, a boss fixed in the center of said shell, a pair of rings fixed to said shell in spaced relation and a plurality of individual bars radially juxtaposed in spaced relation with their outer ends loosely inserted between said rings, the inner ends resting loosely on said boss.

1,782,954. VENETIAN BLIND. CONRAD BAUER, Mount Oliver, Pa. Filed Oct. 21, 1927. Serial No. 227,746. 6 Claims. (Cl. 156—16.)



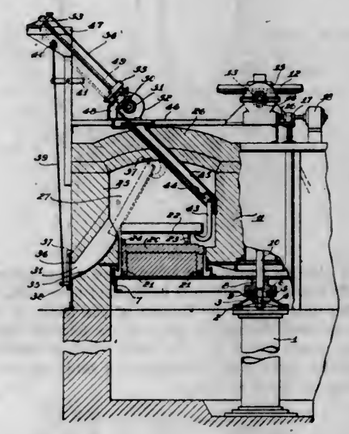
1. For use in connection with a window frame provided with a flexible blind, a flexible screen, means for rolling up and unrolling the blind, means for rolling up and unrolling the screen, and selective means comprising a rocking member for bringing either of said rolling up and unrolling means into operative relation; means for locking said rocking member against accidental movement.

1,782,955. APPARATUS FOR CHARGING FURNACES AND THE LIKE. FLORENCE C. BIGGERT, Jr., Crafton, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 7, 1927. Serial No. 159,559. 10 Claims. (Cl. 214—28.)



1. Apparatus for charging articles into a furnace, including means for supporting a pile of articles, a pusher for removing the lowermost article from the pile, and vertically movable means for holding the pile against downward movement while the lowermost article is being pushed out from under the pile.

1,782,956. ROTARY-HEARTH FURNACE. ALAN D. DAUCH, Pittsburgh, Pa., assignor to George J. Hagan Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 20, 1926. Serial No. 96,192. 18 Claims. (Cl. 263—7.)

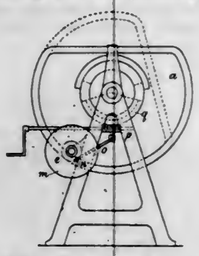


1. In an industrial heating furnace the combination with a movable hearth of a plurality of work carrying members supported thereon, said furnace being provided with passages communicating with the furnace chamber, and means independent of the movement of said hearth for actuating said carrying members to discharge the work through one of said passages.

1,782,957. STIRRER MECHANISM. WILHELM DIERKS, Osnabruck, Germany. Filed Feb. 25, 1930, Serial No. 431,223, and in Germany Mar. 23, 1929. 2 Claims. (Cl. 259—109.)

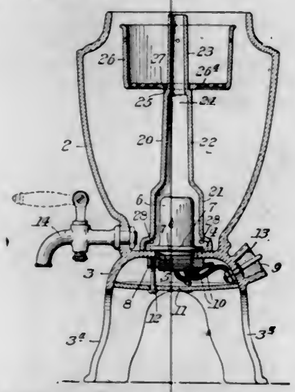
1. The combination of a trough of substantially half-round section tiltable about its axis on a hollow shaft, of a stirrer mounted for rocking movement about said axis, a stirrer shaft aligned with said axis for actuating said stirrer, and stirrer shaft actuating mechanism including an actuating pinion, and differential gearing co-operative

with said pinion and interposed between said shafts, said gearing comprising a gear member freely rotatable about said axis and meshing with said pinion, a gear member fixed



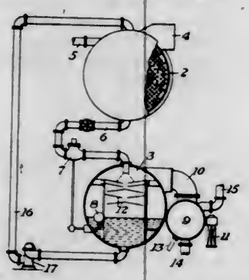
to rotate with said trough and also meshing with said pinion, and a pinion rotatable about a fixed axis and engaged with both said gear members.

1,782,958. COFFEE PERCOLATOR. JACOB DYM, East Liverpool, Ohio, assignor to Porcelier Manufacturing Company, East Liverpool, Ohio, a Corporation of Pennsylvania. Filed Nov. 8, 1928. Serial No. 317,944. 4 Claims. (Cl. 219—43.)



1. An electric percolator comprising a one piece porcelain body having an integral base, said base being hollow, a heating unit set in the bottom of the body, a clamping nut in the base forming a part of the heating unit, a removable cover plate in the base, and screws passing through the cover plate and entering said nut for retaining the cover plate in place.

1,782,959. DISTILLING APPARATUS. WILLIAM S. ELLIOTT, Pittsburgh, Pa. Filed Mar. 27, 1923. Serial No. 628,151. 15 Claims. (Cl. 202—173.)

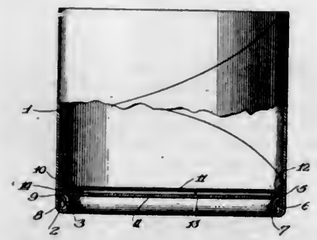


1. An evaporating system, comprising a heater having a water space and having steam and water connections, a series of evaporating chambers communicating with each other and with the water space of the heater, means for maintaining in said chambers definite temperature and pressure conditions progressively lower than the temperature and pressure conditions maintained in the heater, means for admitting the heated water successively to said chambers whereby it will flash therein, and means for returning the unevaporated water to the heater.

1,782,960. METHOD OF MAKING FOOD PRODUCT. HARRY ADRIAN ERYSIN, Malden, and KRIKOR B. CHICKERING, Brockton, Mass. Filed Nov. 17, 1927. Serial No. 234,029. 1 Claim. (Cl. 99—10.)

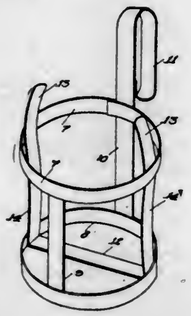
The method of making a food product which consists in roasting ears of corn when in the milk stage until the kernels are thoroughly dry, shelling the roasted kernels from the cob and then grinding the shelled kernels into meal.

1,782,961. PAPER CONTAINER. GEORGE HERETH GARDNER, Chicago, Ill., assignor to The Menasha Products Company, Chicago, Ill., a Corporation of Wisconsin. Filed Dec. 7, 1928. Serial No. 324,367. 5 Claims. (Cl. 229—5.5.)



1. A paper container, comprising a tubular body portion, a lower flanged disk having an annular raised portion adapted to lie adjacent to the wall of the container, the wall of said body portion and the flange of said lower disk together forming a lower edge for the container and an inner plane sealing disk of a diameter equal to the inner diameter of said tubular body portion adapted to fit snugly into said tubular body portion above said lower disk and to rest upon said annular raised portion.

1,782,962. BOTTLE HOLDER. SAMUEL T. HOBBS, Worcester, Mass., assignor to The Washburn Company, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 22, 1927. Serial No. 214,721. 2 Claims. (Cl. 215—100.)



1. A bottle holder comprising a pair of rings made from strip metal, uprights at the front and back of said holder joining said rings together, one upright being provided with a handle portion, and yieldable fingers carried by said lower ring for holding said bottle in said rings with its bottom just above the plane of the bottom of the lower ring.

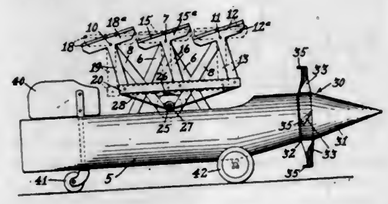
1,782,963. MANUFACTURE OF SOLVENTS. JOSEPH HIDY JAMES, Pittsburgh, Pa., assignor to Clarence P. Byrnes, trustee, Sewickley, Pa. Filed Jan. 26, 1923. Serial No. 615,150. 11 Claims. (Cl. 260—106.)

1. In the method of treating a liquid partial oxidation product from hydrocarbons, which product contains oxidized bodies in the range from alcohols to organic acids, the steps consisting of fractioning up to about 300° to 325° C. the product and separating one or more sets of bodies thereof from other sets of bodies contained therein.

1,782,964. SOLVENT AND METHOD OF MAKING THE SAME. JOSEPH HIDY JAMES, Pittsburgh, Pa., assignor to Clarence P. Byrnes, trustee, Sewickley, Pa. Filed Oct. 21, 1924. Serial No. 745,024. 11 Claims. (Cl. 260—106.)

1. In the treatment of an oily partial oxidation product mixture of aliphatic hydrocarbon derivatives of different degrees of oxidation and which already contain artificially-introduced chemically-combined oxygen, the step consisting of dissolving and separating portions thereof by a selective solvent other than water.

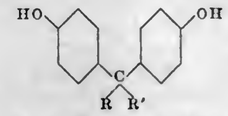
1,782,965. AEROPLANE. LAWRENCE L. JOHNSON, Los Angeles, Calif. Filed Oct. 29, 1929. Serial No. 403,239. 3 Claims. (Cl. 244—12.)



1. In an aeroplane, a frame consisting of a pair of upwardly converging trusses and a pair of upwardly diverging trusses, said trusses being secured to the fuselage and extending upwardly therefrom in fixed relation to each other thus forming three shaft supports spaced apart from each other with respect to the length of the craft, a wing extending crosswise of the shaft and pivotally secured to each of said supports, and means for adjusting in unison the angle of incidence of said wings.

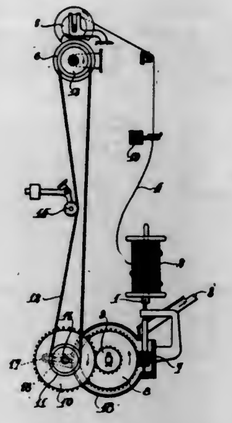
1,782,966. PRODUCTION OF ALKYLATED PHENOLS. HANS JORDAN, Berlin-Steglitz, Germany, assignor to Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Filed July 12, 1926, Serial No. 122,031, and in Germany July 4, 1925. 6 Claims. (Cl. 260—154.)

1. The method of producing alkylated phenols comprising subjecting a dihydroxydiphenyl methane derivative having the formula



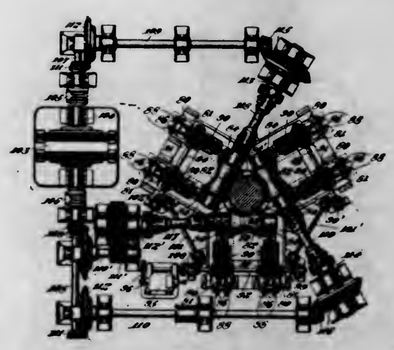
wherein R and R′ are alkyl or aryl radicals at a temperature not materially exceeding 160° C. to treatment with hydrogen in the presence of a slow acting hydrogenation catalyst whereby the molecule of the compound is split up at the point where the carbon atom connects the two phenol radicals.

1,782,967. SILK-TWISTING MILL AND LIKE MACHINE. LOUIS CASIMIR JUNILLON, Valence, and HENRI FRANÇOIS GILLOT, Lyon, France. Filed Apr. 25, 1929, Serial No. 358,100, and in France May 7, 1928. 1 Claim. (Cl. 117—23.)



A silk twisting mill comprising a spindle to support a bobbin of untwisted yarn, a reel on which the yarn in the twisted state is wound, means for driving said reel from said spindle comprising a friction wheel contacting on the cylinder formed by the yarn already wound on the reel, a pulley fixedly carried by said friction wheel, a worm screw carried by said spindle, a worm wheel meshing with said worm screw, a pinion fixed to said worm wheel, a shaft, a gear wheel loose on said shaft meshing with said pinion, a pulley fixedly carried by said gear wheel and a tensioned belt passing round said two pulleys.

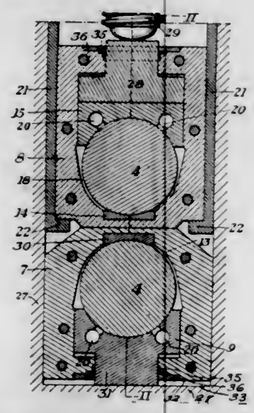
1,782,968. MEANS FOR ROLLING TUBES. ALBERT T. KELLER, Bethlehem, Pa., assignor to Bethlehem Steel Company. Filed Feb. 4, 1927. Serial No. 165,788. 1 Claim. (Cl. 80—11.)



In a mill for rolling tubing longitudinally, the combination of three or more concave rolls arranged in circumferential series with their axes in a plane normal to the axis of rolling, each roll having journals at the ends

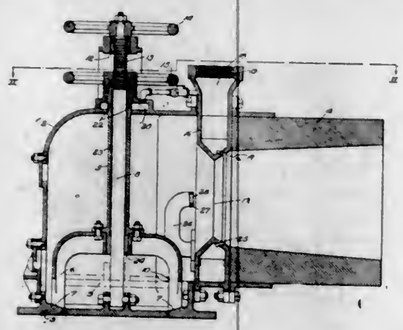
thereof, bearings for the journals, screw mechanisms for moving the bearings of each roll simultaneously and uniformly inwardly and outwardly, means for actuating the screw mechanisms of the bearings of all the rolls simultaneously, a driving member disposed approximately oppositely to one journal of each of the rolls, a wobbler coupling between a journal end of each roll and its opposed driving member, a prime mover, and transmission mechanisms for driving each of the driving members simultaneously.

1,782,969. BEARING. CLARENCE J. KLEIN, Bellevue, Pa., assignor to United Engineering and Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 15, 1927. Serial No. 226,323. 6 Claims. (Cl. 308—60.)



1. A composite roll bearing for rolling mills, comprising an oil tight casing, a main and an auxiliary brass within the casing, said main brass extending beyond the casing, whereby the load on it can be transferred to a support independent of the casing.

1,782,970. VALVE. STRICKLAND KNEASS, Jr., Sewickley, Pa., assignor to Costello Engineering Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 5, 1928. Serial No. 232,947. 12 Claims. (Cl. 251—29.)



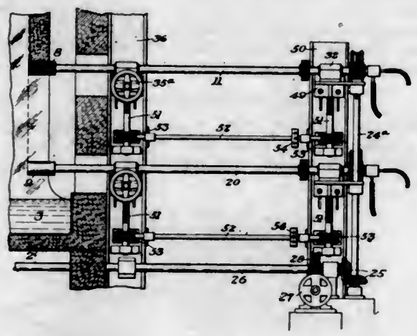
6. The combination with a valve casing having a seat, of a valve adapted to cooperate therewith, a valve stem secured to said valve and projecting upwardly therefrom, a sleeve surrounding said stem, cleaning means operatively connected to said sleeve, and means for effecting operation at will of either said stem or said sleeve, said means comprising a hand-wheel for each of said parts.

1,782,971. TWINE DISPENSING AND CUTTING DEVICE. JOSEPH E. KROEMER, St. Paul, Minn. Filed Apr. 2, 1928. Serial No. 266,860. 11 Claims. (Cl. 30—14.)



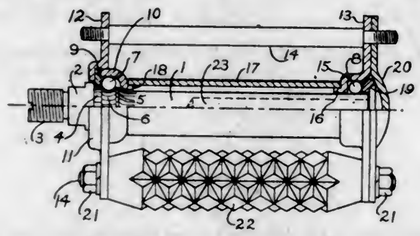
1. A twine guiding and cutting device comprising a resilient member, guiding means for twine attached to said member, a cutter teathered to said resilient member, and means in said cutter for guiding twine therethrough, said cutter being adapted to sever the protruding end of the twine drawn by said cutter.

1,782,972. METHOD AND APPARATUS FOR MAKING SHEET GLASS. WILLIAM L. MONRO, Pittsburgh, Pa., assignor to Window Glass Machine Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 16, 1924. Serial No. 693,235. 13 Claims. (Cl. 49—17.)



13. Sheet glass drawing apparatus, including a molten bath, knurled rolls for engaging the edge portions of a glass sheet and assisting in drawing it upwardly from the bath, smooth rolls between the knurled rolls and the bath for frictionally engaging the sheet to resist its upward movement and stretch the same, means for driving the smooth rolls in a reverse direction to the direction of travel of the glass, and means for adjusting the position of the smooth rolls and the knurled rolls, substantially as described.

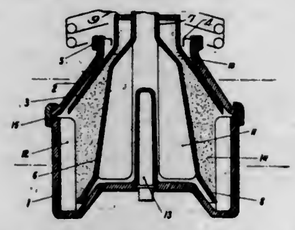
1,782,973. BALL-BEARING PEDAL FOR BICYCLES, ETC. CHARLES A. PERSONS, Worcester, Mass., assignor to Persons-Majestic Manufacturing Company, Worcester, Mass., a Corporation of Massachusetts. Filed Feb. 1, 1929. Serial No. 336,700. 4 Claims. (Cl. 208—70.)



1. In a bicycle pedal, the combination with a spindle providing a cylindrical portion and a concave seat formed

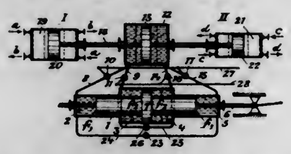
at one end having its smallest diameter substantially the same as the diameter of said cylindrical spindle portion, of two series of balls, all of the same diameter, one series contacting with the seat on said spindle at one end and the other series contacting with the cylindrical surface of said spindle at its other end, a tube encircling said spindle and annular race members located at the opposite ends of said tube for retaining said balls, said race members each providing a cylindrical surface in contact with said balls.

1,782,974. APPARATUS FOR RECOVERING FATS FROM EMULSIONS CONTAINING SOLID PARTICLES. JEAN ALFRED LOUIS ROZIÈRES, Paris, France, assignor of one-half to Societe Française de Centrifugation, Paris, France, a French Company. Filed July 16, 1928, Serial No. 293,088, and in France Oct. 11, 1927. 8 Claims. (Cl. 233—14.)



1. A plant for recovering fats contained in emulsions such as wash waters of wools, solvent heavier than water and solid particles; comprising several groups of apparatus, each group including a mixer and a centrifugal apparatus, means for introducing simultaneously in the mixer of each group the partly exhausted emulsion coming from the centrifugal apparatus of the former group and the solvent heavier than water, in which the proportion of dissolved fat has been increased and coming from the centrifugal apparatus of the following group, and means for transferring the emulsion formed inside the mixer into the centrifugal apparatus of the same group.

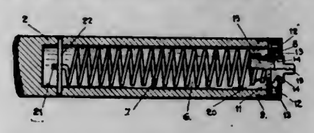
1,782,975. HIGH-PRESSURE RECIPROCATING COMPRESSOR. CHARLES SCHAER, Langenthal, Switzerland, assignor to the Firm of Sulzer Frères Société Anonyme Winterthur, Switzerland. Filed Sept. 29, 1928, Serial No. 309,266, and in Switzerland Nov. 8, 1927. 8 Claims. (Cl. 230—49.)



1. A compressor-plant, comprising a reciprocating-piston compressor, a driving engine having a cylinder and a reciprocating piston, another piston intermediate the engine and the compressor and structurally connected to the compressor piston, a cylinder therefor, a fluid-conduit between the piston of the driving engine and the intermediate piston, said connection having a liquid colum therein, and means for rendering inoperative a portion of the said liquid column on occasion.

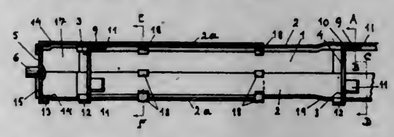
1,782,976. SPRING-OPERATED SHADE ROLLER. WILLIAM OSKAR NICOLAUS SÖDERQVIST, Lidköping, Sweden. Filed Oct. 29, 1929, Serial No. 403,230, and in Sweden Nov. 6, 1928. 3 Claims. (Cl. 156—36.)

2. A shade roller having a bore in one end, a coil spring in the bore, means for fixing the inner end of the spring to the roller, a cap closing the end of the bore and having an aperture therein, a sleeve rotatably engaged in the aperture and fixed to the outer end of the spring, said sleeve having spaced tongues upon its outer end and



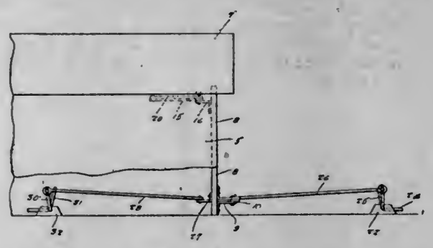
notches adjacent the tongues, dogs pivotally carried by the cap and engageable in the notches to retain the roller in adjusted position, said tongues being engageable with a bracket to retain the sleeve against rotation during winding of the roller.

1,782,977. METALLIC SHADE ROLLER. WILLIAM OSKAR NICOLAUS SÖDERQVIST, Lidköping, Sweden. Filed Oct. 29, 1929, Serial No. 403,231, and in Sweden Oct. 3, 1929. 2 Claims. (Cl. 156—29.)



1. A shade roller comprising a plurality of circularly alined strips, said strips having formed therein apertures and adjacent recesses, said recesses being below the plane of the strips, circular brackets confined by the strips and having peripheral projecting lugs passable through said apertures and bendable into said recesses, brackets upon the ends of the roller, and means carried by the latter brackets for rotatably supporting the roller.

1,782,978. CLOSURE OPERATOR. JOSEPH D. SWARNER, Kansas City, Kans. Filed Aug. 2, 1929. Serial No. 382,886. 2 Claims. (Cl. 268—35.)

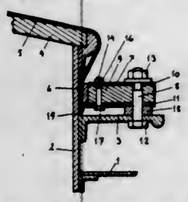


1. An operating mechanism for swinging doors comprising a rocker arm, a linked connection between one end of the rocker arm and the door, a crank shaft at each side of the door, a connecting rod between the opposite end of the rocker arm and one of the crank shafts, and a connecting rod pivoted at one end to the said door and having its opposite end connected to the other crank shaft.

1,782,979. CLAMPING MEANS. EDWARD ELIAS VON TELL, Gottenborg, Sweden. Filed Sept. 18, 1929, Serial No. 393,499, and in Sweden July 8, 1929. 8 Claims. (Cl. 114—203.)

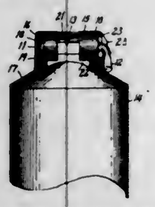
1. A mechanical clamping device comprising a stationary base member, a pivot rigidly connected to said base member somewhat remote therefrom, an object provided to be clamped to said base member, an eccentric rotatable about said pivot so as to be swung against said object to clamp same against the base member, a lug on said

eccentric spaced from said pivot, a lever provided to turn about said pivot, and to cooperate at some distance from



its turning point with said lug on the eccentric so as to forcibly turn the eccentric to clamp said object against the base member.

1,782,980. COLLAPSIBLE TUBE. WILLIAM C. UDE, East Haven, Conn. Filed Aug. 10, 1929. Serial No. 384,865. 2 Claims. (Cl. 221—60.)



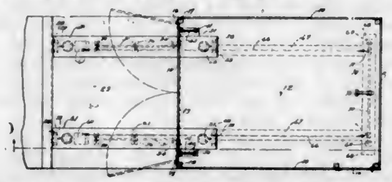
1. A collapsible tube having a cylindrical oscillatable closure formed with a transverse passage and mounted in a cylindrical socket in the outer end of the said tube, the said socket being open at one end and formed with a seat at its opposite end for engaging the adjacent end of the said closure and having the metal surrounding this open end forced inward after the insertion of the said closure to partly close the said opening of the socket and retain the closure in place therein against endwise displacement.

1,782,981. SCREW DRIVER. JOHN A. ANDERSON, Bridgeport, Conn., assignor to The Bridgeport Hardware Manufacturing Corporation, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 24, 1929, Serial No. 416,227, and in Great Britain Nov. 29, 1929. 2 Claims. (Cl. 145—50.)



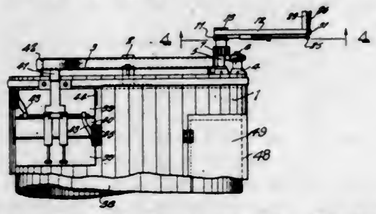
1. A screw driver comprising a shank provided with a screw driving bit having two opposite side faces, one of said faces being provided with a rib extending tranvsersely of said face closely adjacent the free end of the bit and extending laterally outward, said face also having ribs extending from a centrol longitudinal line of the shank at an oblique angle to the shank toward said first rib, said oblique ribs and the transverse rib blending into each other so that they form continuations of each other and are adapted to engage a wall of a screw head kerf to resist both longitudinal and transverse slipping of the bit in the kerf during the turning movement of the screw driver.

1,782,982. DOOR-OPERATING MECHANISM. HARVEY T. BLACK, Lexington, N. C. Filed Jan. 10, 1930. Serial No. 419,871. 3 Claims. (Cl. 268—35.)



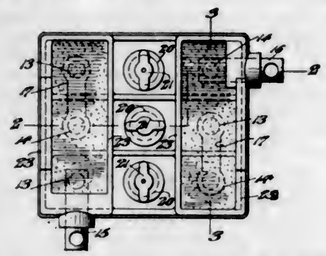
1. Means for automatically opening and closing a door and locking the same in position when in closed position comprising a depressible platform, resilient means mounted beneath the platform adapted to normally press the same upwardly, means for limiting the upward movement of the platform, a lever pivotally mounted at one end to a fixed object, a transversely disposed shaft, a bell crank lever mounted on said first named transversely disposed shaft, the other end of said lever being slidably and pivotally conected with the said bell crank lever, said lever being pivotally connected intermediate its ends to the said platform, a second bell crank lever mounted on said transversely disposed shaft, a link connecting said second bell crank lever with the said door, all of said means being adapted to automatically open the door when the platform is depressed and to close the door when the platform returns to normal position.

1,782,983. POSITIONING DEVICE FOR LAUNDRY MACHINES. PETER C. BRUCKMANN, St. Louis, Mo., assignor, by mesne assignments, to Vorclone Company, a Corporation of Wisconsin. Filed June 20, 1924. Serial No. 721,279. 10 Claims. (Cl. 74—7.)



1. In a power driven laundry machine of the character described having a tub provided with a door and a drum rotatable in the tub and having a door and adapted to be selectively positioned by hand, an engageable driving element, an operating handle, a pawl on said handle adapted to effect driving engagement between said handle and said element in one direction, means for latching said pawl in driving engagement, and a centering device operating upon release of said handle to disengage said pawl.

1,782,984. BATTERY COVER. FRANK S. CARLILE, Abington, Pa. Filed Dec. 6, 1928. Serial No. 324,207. 4 Claims. Cl. 136—170.)



1. A battery cover having projecting cell posts and filling openings therethrough, certain of said posts being inter-

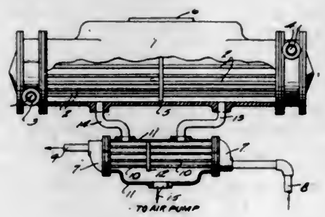
connected by a link, a continuous wall formed integral with said cover and having one portion between said posts and filling openings, said wall enclosing all of said posts to form a relatively deep receptacle, and a sealing compound in said receptacle embedding and concealing said posts and link.

1,782,985. DESK CALENDAR. KEITH CLARK, Ridgewood, N. J. Filed June 1, 1929. Serial No. 367,676. 3 Claims. (Cl. 40—120.)



1. In a pad calendar the combination of a base having apertures and a stack of sheets supported on said base, legs for holding one end of said base in an elevated position on a support, said legs extending through said base and having portions engaging the inner and outer surfaces of said base around said apertures to sure the legs to the base, said legs having longitudinal bores and screws for extending through the stack of sheets and threaded into said legs for the purpose of securing the stack of sheets to said base.

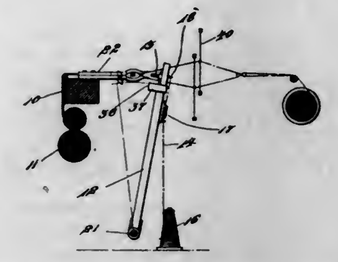
1,782,986. APPARATUS FOR CONDENSING STEAM. DION K. DEAN, Rahway, N. J., assignor to Foster Wheeler Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 19, 1928. Serial No. 306,983. 6 Claims. (Cl. 257—43.)



1. In condensing apparatus comprising a main condenser having a plurality of compartments in each of which the condensing capacity is different, the combination therewith of means for equalizing the depth of steam penetration in said condenser compartments comprising an auxiliary condenser and air cooler provided with a plurality of cooling sections, each of such cooling sections having a different cooling capacity, means for connecting the cooling section having the greatest cooling capacity with that condenser compartment in which the steam penetration is deepest, means for connecting the cooling section having lesser cooling capacity with a condenser compartment in which the steam penetration is not so deep, and an evacuating apparatus connected to said cooler.

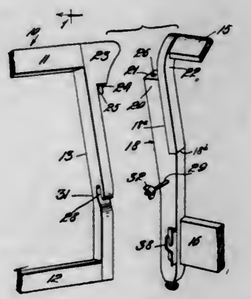
1,782,987. LOOM. JOHN HENRY DODGE, Shannock, R. I., assignor of one-half to George P. Clark, Shannock, R. I. Filed July 13, 1929. Serial No. 378,068. 19 Claims. (Cl. 139—125.)

1. In a loom, a lay, a shuttle on the lay, means for leading the weft thread thru the shuttle from an extraneous source of supply, means for supporting a selvage thread supply adjacent the edge of the fabric and leading the selvage thread therefrom to the fabric being formed,



and means in said selvage thread support affected by action of the lay for guiding the weft thread around said selvage thread.

1,782,988. BED FRAME. BENJAMIN M. FRANK, New York, N. Y., assignor to Greenpoint Metallic Bed Co., Inc., Brooklyn, N. Y., a Corporation of New York. Filed Aug. 8, 1929. Serial No. 384,281. 2 Claims. (Cl. 5—285.)

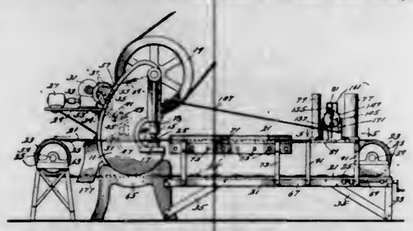


1. In a supporting frame for bed structures, the combination of two frame ends each having at its rear edge a post of which the front part extends to substantially the full height of the end and of which the rear part terminates in an upwardly facing supporting shoulder at a lower level and is provided with a socket extending downwardly from said shoulder, a bolt extending through each of said posts below the level of the shoulder thereof and with its threaded end projecting towards the other end of the frame, a frame back including at each end an upright having at the upper part thereof an outwardly projecting portion of which the bottom constitutes a downwardly facing shoulder to rest on the upwardly facing shoulder of the adjacent post and a dowel projecting downwardly from the downwardly facing shoulder to enter said socket and hold the corresponding parts against lateral displacement, each of said uprights having a slot extending longitudinally thereof and open at its lower end to receive the corresponding bolt when the back is lowered into position to place the dowels in the sockets, and means including a nut on each of said bolts for clamping the frame back and the frame ends together in assembled relation.

1,782,989. METHOD AND APPARATUS FOR FEEDING DISKS TO A CLOSING MOLD. LOUIS T. FREDERICK, Valparaiso, Ind., assignor, by mesne assignments, to Continental Diamond Fibre Company, Newark, Del., a Corporation of Delaware. Filed Jan. 18, 1928. Serial No. 247,671. 40 Claims. (Cl. 18—1.)

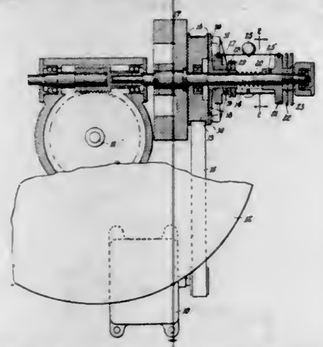
1. In a device of the class described, a pair of forming dies, a conveyor adapted to receive material, means for

moving said conveyor between the dies, means interrupting said movement whereby the material carried by the conveyor may be held stationary between said dies, and



means for closing the dies while the material is so positioned whereby to configurate the material directly between the dies.

1,782,990. SPEED-CONTROL APPARATUS. CLARENCE G. GARRIGUS, Bristol, Conn., assignor, by mesne assignments, to Wm. H. Bristol Talking Picture Corporation, Waterbury, Conn., a Corporation of Connecticut. Filed July 21, 1928. Serial No. 294,334. 2 Claims. (Cl. 192—147.



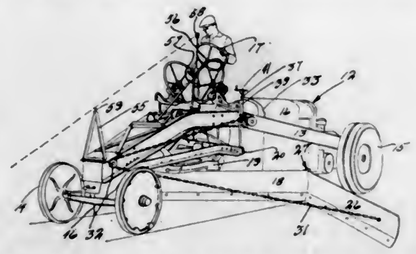
1. In velocity transmission apparatus, a driven shaft, a driving element embodying a pulley member loosely mounted on the driven shaft and capable of movement axially thereof, a sleeve member axially movable on said shaft and having a flange carrying friction means for clutching the pulley to the shaft, resilient means urging said sleeve toward the pulley, means to adjust the degree of pressure exerted by said resilient means, centrifugal governor means operating to move said sleeve in a direction opposed to the action of the resilient means thereon, braking means embodying a fork having friction shoes adapted for engagement with the flange of the said sleeve member, a rock shaft, a collar secured thereto and to which said fork is swivelled, said shaft having an arm extending therefrom, and an adjustable screw cooperating with said arm for turning the said rock shaft to determine the degree of the braking effect.

1,782,991. ELECTRIC CONNECTER FOR TOY TRAIN TRACKS. HARRY C. IVES, Bridgeport, Conn., assignor, by mesne assignments, to The Ives Corporation, Bridgeport, Conn., a Corporation of Connecticut. Filed July 5, 1927. Serial No. 203,366. 8 Claims. (Cl. 191—29.)



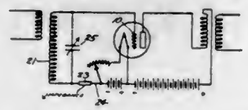
1. An electrical connecter for toy railway tracks comprising a base, two attachment means carried thereby and adapted to engage the outside rails, terminal means carried by said base and electrically connected to one of said attachment means, a spring contact member carried by said base adapted to engage a center rail under spring pressure in the attached relation of the base, and terminal means electrically connected to said spring contact means.

1,782,992. ROAD GRADER. ALGOT F. JOHNSON, Minneapolis, Minn. Filed Aug. 13, 1928. Serial No. 299,225. 1 Claim. (Cl. 37—156.)



The combination with a grader including a carriage, and a leveling scraper blade supported from the carriage at an angle oblique to the longitudinal center line thereof and adapted to substantially level the top of a road shoulder, of a beveling scraper blade pivotally connected to one end of a leveling scraper blade and normally projecting outward and downward therefrom and adapted to bevel or slope the side of a road shoulder simultaneously with the leveling of the top thereof by the leveling blade, the axis of the pivotal connection between the leveling scraper blade and the declined beveling scraper blade being at substantially right angles to the beveling blade so that pivotal movements of the beveling blade in respect to the leveling blade will not materially change the angle of the slope cut by said beveling blade, and means for holding said beveling blade against accidental pivotal movements caused by scraping action.

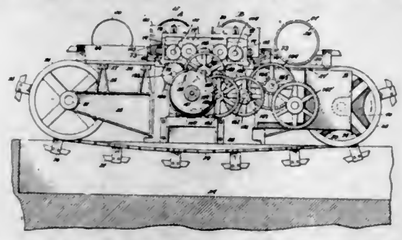
1,782,993. NONREGENERATIVE RADIO CIRCUITS. OCTAVIUS KNIGHT, Westfield, N. J. Filed Apr. 17, 1924. Serial No. 707,150. 1 Claim. (Cl. 179—171.)



A radio frequency amplifier circuit comprising an audion with input and output circuits tending to produce regeneration through the plate-grid capacity of the audion, said input circuit having connected between grid and filament a variable radio frequency tuning circuit comprising an inductance element shunted by a condenser, for imparting at variable radio frequencies a voltage between grid and filament, and a choke coil interposed in the connection of the filament to said tuning circuit, the inductive reactance of said choke coil sufficiently predominating, at the radio frequencies to which said tuning circuit may be tuned, to substantially check the feed back of radio frequency energy from the output circuit to the input circuit through the plate grid capacity.

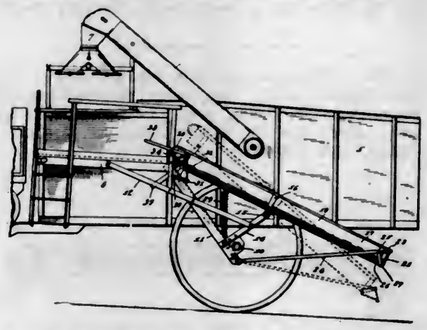
1,782,994. MACHINE FOR BEADING AND FLANGING METAL BARRELS. BROR J. LINDGREN, Buffalo, N. Y., assignor to Niagara Machine and Tool Works, Buffalo, N. Y., a Corporation of New York. Filed May 25, 1929. Serial No. 365,993. 26 Claims. (Cl. 153—2.)

1. In a machine of the character described, two forming rolls, means for moving said rolls relative to one another, an endless conveyer belt adapted to receive barrel shells, step-by-step means moving said belt to bring the barrel shells successively into position between said rolls, a second pair of forming rolls arranged on the opposite



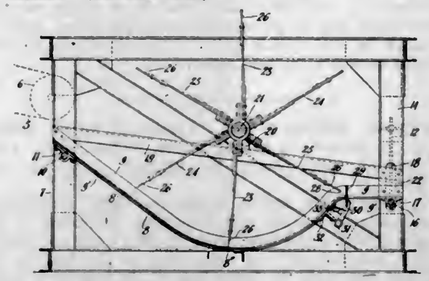
side of said barrel from said first mentioned rolls, and means synchronized with said step-by-step means for moving said last named pair of rolls toward said first named pair of rolls to form that portion of the barrel shell disposed therebetween.

1,782,995. SACK CHUTE FOR HARVESTER THRASHERS. WALLACE F. MACGREGOR and NORMAN R. KRAUSE, Racine, Wis., assignors to J. I. Case Company, Racine, Wis., a Corporation of Wisconsin. Filed May 3, 1927. Serial No. 188,577. 10 Claims. (Cl. 193—15.)



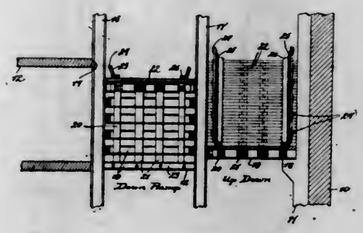
4. In a sack-chute, an end-gate hinged thereto, means for releasing the chute whereby it may be swung in one direction, means for automatically opening the end-gate outwardly and downwardly during the swinging movement of the chute and for closing the gate when the chute is swung in the opposite direction, and a spring associated with the chute for returning the latter to sack receiving position.

1,782,996. APPARATUS FOR STACKING ORE AND SIMILAR MATERIAL. GILBERT D. MOODY, Weyauwega, Wis. Filed Mar. 27, 1929. Serial No. 350,199. 6 Claims. (Cl. 198—128.)



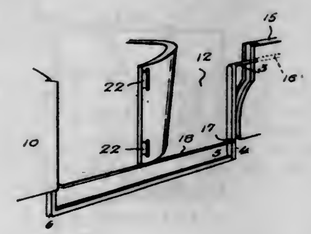
1. In an apparatus of the character described, a trough adapted to receive ore from a conveyor, means comprising a series of rotatable paddle members for ejecting the ore from said trough, and baffle means providing for compression of the ore by said paddle members.

1,782,997. BUILDING. ERIC P. MUNTZ, Buffalo, N. Y. Filed Dec. 30, 1927. Serial No. 243,591. 2 Claims. (Cl. 20—1.13.)



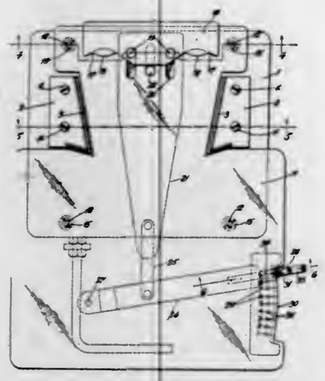
1. A building including a series of spaced horizontal floors each of which has an opening provided therein, said openings being arranged in vertical alinement and forming a vertical shaft and a ramp structure arranged in said shaft, said ramp structure including parallel rows of metal columns arranged in said shaft and mainly supported at their bases, and a plurality of fabricated inclined ramps removably secured to said columns between said rows and mainly supported thereby, said ramps removably abutting the said floors adjacent the ends of said openings whereby a continuous system of ramps is provided between the several floors, and the ramp structure is substantially independent of the building and said ramps consisting of two series, the ramps of each series being parallel with one another and arranged at an angle to the ramps of the other series.

1,782,998. TRANSFORMABLE MOTOR-CAR BODY. FÉLIX LÓPEZ-OSORIO, Buenos Aires, Argentina. Filed Sept. 28, 1928. Serial No. 308,973. 2 Claims. (Cl. 296—1.)



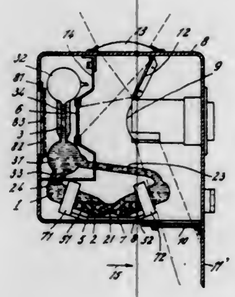
1. In a convertible automobile body comprising a side wall having an opening therein and a floor board provided with an opening, the combination therewith of a roof supporting device comprising an extensible and contractible beam designed to be moved into and out of the opening in the floor board and a supporting frame for said beam having a member movably mounted in the opening in the side wall, whereby said beam may be swung upwardly into roof supporting position or downwardly out of such position.

1,782,999. DIE. JOHN A. PARKER, St. Louis, Mo., assignor to International Shoe Company, St. Louis, Mo., a Corporation of Delaware. Filed Jan. 25, 1929. Serial No. 335,001. 21 Claims. (Cl. 12—17.)



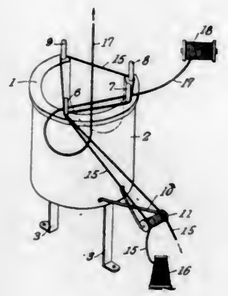
1. A die comprising a base, a work supporting plate, springs for supporting the work supporting plate above the base, cutters rigid with the base, and spaced gage parts supported by said supporting plate for gaging the work in one position with one edge toward one of said cutters and in another position with the opposite edge toward another cutter.

1,783,000. APPARATUS FOR INDICATING SPEED VARIATIONS. PAUL PASCHEN and WILHELM GEBHARDT, Nuremberg, Germany, assignors to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany, a Corporation of Germany. Filed Mar. 27, 1930, Serial No. 439,402, and in Germany Apr. 23, 1929. 23 Claims. (Cl. 116—37.)



1. In a device for indicating speed variations of traveling vehicles, more particularly motor cars, communicating vessels comprising a yoke member located substantially in the direction of the longitudinal axis of the vehicle, rising tubes connected to said yoke member, an indicating liquid within said rising tubes, and means adapted to render the level of said indicating liquid in said rising tubes visible from a distance.

1,783,001. APPARATUS FOR MAKING WEAVING KNOTS. GUGLIELMO RAETZ, Cordenons, Italy. Filed Oct. 9, 1928, Serial No. 311,293, and in Italy Jan. 26, 1928. 2 Claims. (Cl. 289—3.)



1. In an apparatus for making weavers' knots, a support comprising a U-shaped base provided on its upper end with an open ring, pins mounted thereon for the guidance of the threads to be knotted and the ends of which are to be cut a predetermined distance from the knot.

1,783,002. CURTAIN ROLLER. EMORY GLENN SIMPSON, Detroit, Mich., assignor to Ternstedt Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 26, 1929. Serial No. 416,393. 6 Claims. (Cl. 156—36.)

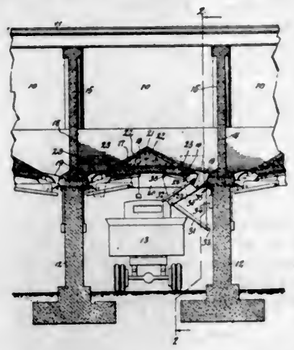


4. A curtain roller comprising in combination a shaft, support means for non-rotatively supporting the said shaft, a tubular curtain roller having one end closed by a centrally apertured disc, spring torque producing means connected to the said roller and the said shaft, a clutch drum rotatively mounted on the said shaft and secured to the said disc in the said aperture, a clutch spring having a plurality of convolutions mounted on the said drum in clutching relation therewith and with one end fixed to the said shaft support, a trigger rotatively mounted on the said drum and having one end operatively connected to the other end of the clutch spring whereby the trigger may be pivoted about the said clutch drum to expand the said clutch spring to permit the said spring means to rotate the said roller.

1,783,003. STORAGE BIN. ARTHUR P. SKAER, Buffalo, N. Y., assignor to Eric P. Muntz, Buffalo, N. Y. Filed Apr. 15, 1929. Serial No. 355,046. 1 Claim. (Cl. 72—6.)

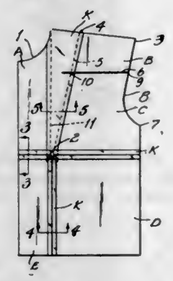
A storage bin having transverse walls, longitudinal side walls connecting said transverse walls, and a bottom connecting the lower ends of said walls and including a longitudinal arch connecting at its opposite depressed ends with the lower ends of the transverse walls, and provided adjacent to its depressed end with outlets for the material stored in the bin, said arch being provided

on its upper side on opposite sides of its elevated central part with shoulders which face each other, and a deflector



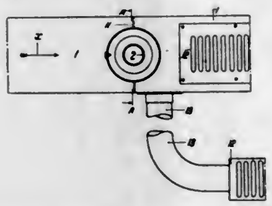
arranged above the central part of said arch and engaging its opposite ends against said shoulders and having opposite inclines which slope toward said outlets.

1,783,004. PATTERN. HELEN HALL SMITH, St. Louis, Mo. Filed Mar. 28, 1929. Serial No. 350,530. 8 Claims. (Cl. 33—14.)



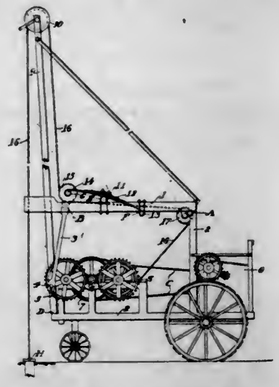
8. A waist pattern made according to the measurements of an individual and having a plurality of tapering adjustable dart portions extending from the point indicating the bust.

1,783,005. VENTILATING APPARATUS. ALEXANDER WILLIAM STEWART, Glasgow, Scotland. Filed May 13, 1929, Serial No. 362,739, and in Great Britain May 29, 1928. 5 Claims. (Cl. 98—38.)



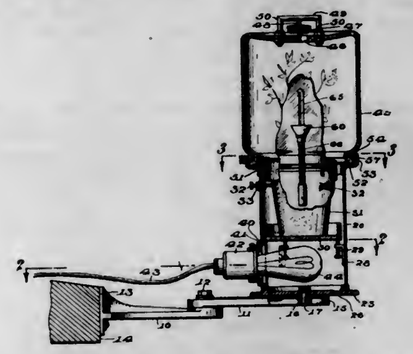
1. Ventilating apparatus comprising in combination with separate passages for hot air and cold air, respectively, a ventilator adapted to discharge a current of hot or cold air in any desired direction in communication with said passages, means controlling the proportions of hot and cold air passing from said passages through said ventilator, and a louvre for discharging air cut off from said ventilator by said means.

1,783,006. SPUDDING CUSHION FOR DRILLING MACHINERY. THOMAS WILLIAMS, Topeka, Kans. Filed Dec. 9, 1929. Serial No. 412,787. 6 Claims. (Cl. 255—16.)



2. In a spudding device to be used in connection with wire lines on drilling rigs, two semi-elliptical leaf springs, a sheave, cross members, the springs positioned on a walking beam by means of the cross members and the sheave rotatably positioned on the springs, and transmitting the motion of the walking beam to a cable.

1,783,007. PLANT-PROPAGATING DEVICE. MAURICE ALLAND, Atlantic City, N. J. Filed Oct. 11, 1928. Serial No. 311,830. 15 Claims. (Cl. 47—38.)



3. A plant-propagating device, comprising a hollow casing section adapted to contain a plant pot, an adjustable partition within said section to support a pot, and means to operatively support a heating element within said section beneath said partition, a light-admitting dome removably carried by said section, and means to detachably lock said dome to said section.

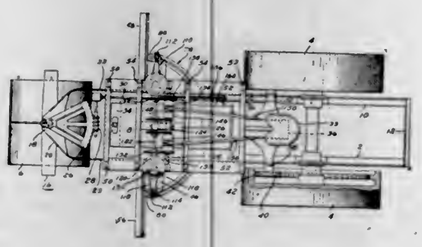
1,783,008. TICKER-TAPE CONTROL. JOHN HARTFORD CHIDESTER, Chatham, N. J. Filed July 23, 1927. Serial No. 208,035. 3 Claims. (Cl. 242—75.)



1. A ticker tape feed control comprising a member having a groove therein to receive a tape for endwise slid-

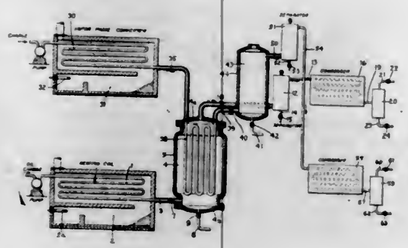
ing movement, two gravity actuated strips hinged to said member at opposite sides respectively of said groove, a flange on each strip arranged to retain said tape against the bottom of said groove to prevent vibration of said tape while traveling through said groove, and means to adjust the pressure of said flanges upon said tape.

1,783,009. ROAD MACHINERY. DAVID B. COOK, Frankfort, N. Y., assignor to Acme Road Machinery Company, Frankfort, N. Y., a Corporation of New York. Filed Jan. 28, 1926. Serial No. 84,299. 2 Claims. (Cl. 37—146.)



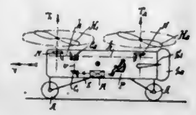
1. A road vehicle having, in combination, a frame, a road grading device mounted beneath and extending transversely of the frame, blocks mounted for up and down movement adjacent the sides of the frame, a shaft, means for driving the shaft, and connections between said blocks and shaft for raising and lowering the blocks independently of each other at the will of the operator, and connections between said blocks and the ends of said device for raising and lowering said ends.

1,783,010. METHOD AND APPARATUS FOR CRACKING HYDROCARBON OILS. RICHARD J. DEARBORN, Summit, N. J., assignor to The Texas Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 19, 1928. Serial No. 247,832. 4 Claims. (Cl. 196—60.)



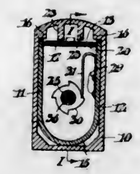
1. A process of converting higher boiling point hydrocarbon oil into lower boiling point products which comprises passing the oil through a heating coil of restricted cross section, heating the oil in transit to substantially a cracking temperature, delivering the heated oil into a cracking drum where a body of oil collects, simultaneously cracking oil in the vapor-phase at a relatively high cracking temperature, and passing the cracked vapors and gaseous products thereof in indirect contact with said body of oil to maintain a cracking temperature therein and effect cracking of the oil in the liquid phase.

1,783,011. HELICOPTER. NICOLAS FLORINE, Brussels, Belgium, assignor of ten per cent to Societe Nationale pour l'Etude des Transports Aeriens, Societe Anonyme, Brussels, Belgium. Filed Nov. 26, 1927, Serial No. 235,789, and in Belgium Dec. 3, 1926. 7 Claims. (Cl. 244—19.)



4. In a helicopter, a plurality of propellers, means for causing all of the propellers to revolve in the same direction, and means for causing the helicopter to be inclined forwardly and for suppressing the lateral upsetting couple to secure horizontal flight.

1,783,012. MAGNETIC RAZOR CONDITIONING AND DEVICE THEREFOR. JOHN S. FORBES, Philadelphia, Pa., assignor, by mesne assignments, to Yates & Grant, Inc., Detroit, Mich., a Corporation of Michigan. Filed Mar. 17, 1927. Serial No. 176,197. 10 Claims. (Cl. 175—265.)



1. The method of magnetic blade-edge treatment which comprises subjecting the edge concurrently to a straightening magnetic influence and to vibration.

1,783,013. ROD FOR USE IN ARC WELDING OR CUTTING. J BIRCHARD GREEN, Chicago, Ill., assignor to Franklin M. Warden, Chicago, Ill. Filed Feb. 10, 1927. Serial No. 167,377. 8 Claims. (Cl. 148—23.)

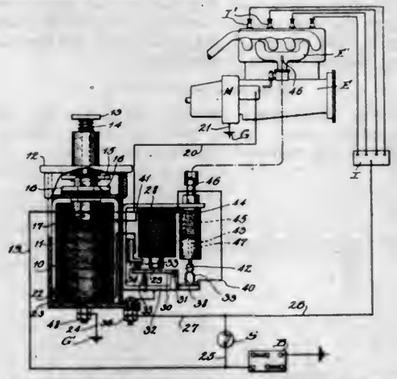
1. In a coating for filler material as used in fusion welding and cutting, a tungsten oxide compound and a uranium oxide compound.

1,783,014. SEMIRIGID CRYSTAL MOUNTING. CLARENCE W. HANSELL, Rocky Point, N. Y., assignor to Radio Corporation of America, a Corporation of Delawhre. Filed Jan. 21, 1927. Serial No. 162,433. 6 Claims. (Cl. 171—327.)



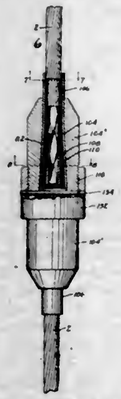
1. A mounting for a piezo-electric cryatal oscillator comprising an outer annular casing, a pair of insulating disks mounted within said casing, electrodes detachably mounted through said disks, and clamping means carried by each of said electrodes, said means being adjustable lengthwise of the electrodes, whereby to clamp each of said electrodes in fixed relationship with respect to the disc through which it is mounted.

1,783,015. STARTER FOR INTERNAL-COMBUSTION ENGINES. JOHN HASSELBRING, Jr., Woodhaven, N. Y., assignor to Royalty Holding Corporation, Brooklyn, N. Y., a Corporation of New York. Filed July 22, 1925. Serial No. 45,310. 8 Claims. (Cl. 290—37.)



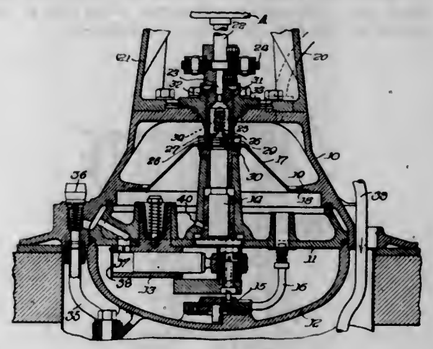
1. In a starter for internal combustion engines of the class in which power from an electric source is temporarily applied by an electric motor to an engine having an intake manifold, and an ignition system drawing its supply from said source, a normally open primary magnetic switch having a winding and contacts, said contacts being in circuit from said source to said starting motor, a normally open secondary magnetic switch having a winding and contacts, said contacts being in circuit from said source to the winding of said primary magnetic switch, a normally closed make and break mechanism having a movable contact, said contact being in circuit from said source to the winding of said secondary magnetic switch, pneumatically actuated means operative upon said movable contact, connections between said means and said engine manifold, whereby said movable contact will be actuated to deenergize the winding of said secondary magnetic switch when the engine is operating under its own power, means operative upon said movable contact normally tending to close said make and break mechanism, and a manually operative switch in circuit between said source of power, the ignition system, and the windings of said primary and said secondary magnetic switches respectively.

1,783,016. CABLE AND CONNECTER THEREFOR. IRA THOMAS HOOK, New Haven, Conn., assignor to The American Brass Company, Waterbury, Conn., a Corporation of Connecticut. Filed Oct. 21, 1924. Serial No. 744,870. 3 Claims. (Cl. 173—303.)



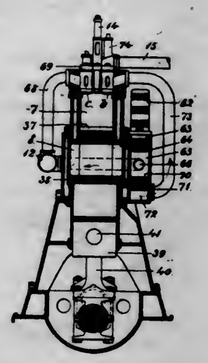
1. A cable connecter comprising a cable having an expanded end, a sleeve thereon having a conical bore portion adjacent to the expanded end of the cable and a tubular portion of uniform internal diameter extending along an unexpanded portion of the cable and securing material within both said conical and tubular portions adhering to said cable and sleeve and connecting the same together, said adhering material within the tubular portion gradually transferring the stress of the cable to the sleeve.

1,783,017. COMPRESSOR CONSTRUCTION FOR ICE MACHINES. RASMUS M. HVID, Chicago, Ill. Filed Oct. 25, 1927. Serial No. 228,513. 9 Claims. (Cl. 230—159.)



1. In a compressor for ice machines having a high pressure chamber and a motor mounted outside and entirely exteriorly thereof, the combination of a drive shaft connected to the motor, an intermediate shaft projecting through a wall of the high pressure chamber, a driven shaft located entirely within the chamber, and loose couplings between the three shafts.

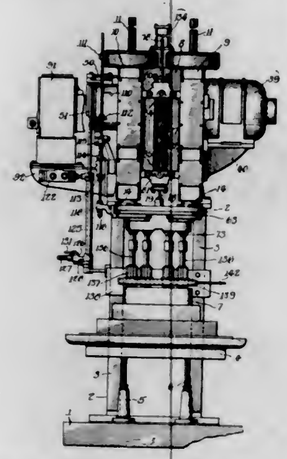
1,783,018. GAS-GENERATING COMBUSTION ENGINE. JOHAN ERIK JOHANSSON, Gottenborg, Sweden, assignor to Aktiebolaget Gotaverken, Gottenborg, Sweden, a Corporation of Sweden. Filed Oct. 12, 1925, Serial No. 61,898, and in Sweden Oct. 22, 1924. 4 Claims. (Cl. 60—30.)



4. In combination, in an internal combustion engine and compressor, a combustion cylinder, a compressor cylinder, and a packing cylinder disposed in coaxial relation, a compound piston structure comprising pistons having a working fit with the respective cylinders, means for admitting air to the compressor cylinder above the piston therein during the suction stroke of the engine, the volume

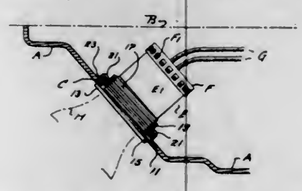
of air drawn into the compressor being approximately fifty per cent greater than the volume of air required to charge the engine, means for admitting a charging portion of the air compressed during the compression stroke into the engine cylinder and for admitting the remainder of such compressed air into the compressor cylinder below the piston therein, a take-off pipe leading from the engine exhaust valve, and means for conducting the air compressed in the compressor cylinder during the out stroke of the piston over the exhaust valve and into said pipe.

1,783,019. HONING MACHINE. ALBERT M. JOHNSON, Rockford, Ill., assignor to Barnes Drill Company, Rockford, Ill., a Corporation of Illinois. Filed Dec. 4, 1926. Serial No. 152,560. 24 Claims. (Cl. 51—34.)



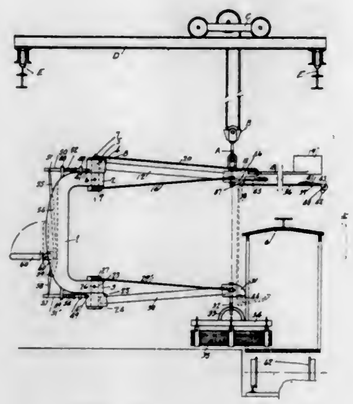
1. A machine of the class described having, in combination, a reciprocatory head, rotatable spindles operatively supported upon said head, a pair of spaced guiding sleeves attached to said head, stationary bearings for said guiding sleeves, a pair of shafts respectively supported within said guiding sleeves and having operative connection with said spindles, means for rotating said shafts, and hydraulic reciprocating means operatively connected to said head between said guiding sleeves separately from said guiding members and shafts.

1,783,020. ELECTRIC-FIXTURE DEVICE. LEON KOZLOWSKI, Union City, N. J., assignor of one-half to Theresa Puschett, Jersey City, N. J. Filed June 11, 1929. Serial No. 370,019. 2 Claims. (Cl. 173—339.)



2. A device of the character described, comprising a fixture formed with an opening including a notch, a lamp-socket casing having the lamp-receiving end thereof furnished with an abutment flange, said casing being provided with screw-threads adjacent its said end, the said casing being insertible into said opening from the outside of the fixture with the abutment flange overlying the fixture's exterior, an element projecting from said flange on the side thereof facing said fixture, said element being capable of entering said notch to keep the casing from turning, an internally threaded member adapted to engage the threads on the lamp-socket casing from the inside of the said fixture, and a spanner engagement ear extending therefrom in a like direction to the notch-entering element, the said member serving to hold said abutment flange against the side of the fixture with the lamp-socket casing entirely hidden therewithin.

1,783,021. LOADING CRANE. WILLIAM W. LEACH, Mansfield, Ohio. Filed Feb. 26, 1929. Serial No. 342,823. 16 Claims. (Cl. 212—17.)



1. In a hoisting frame, a support, a bracket mounted for swinging movement at the upper end of the support, a jib mounted for swinging movement at the lower end of the support, and means whereby the bracket and jib may be secured in vertical alinement and fixed with respect to the support.

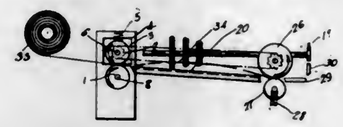
1,783,022. COMBINED LETTER AND ENVELOPE STUFFER. JOHN O. LITTLE, New York, N. Y. Filed Feb. 24, 1928. Serial No. 256,523. 1 Claim. (Cl. 281—43.)



A combined four edged perimeter letter sheet and envelope stuffer formed from a single sheet comprising inwardly extending aligned cuts in the sheet on opposite sides thereof and adjacent one side thereof and extending inwardly equal distances from the sides to define a four edged perimeter of a letter sheet, and folds extending from the inner extremities of the cuts and perpendicular thereto for a distance less than one third the length of the sheet in the direction of the folds, said cuts and folds forming three leaves of substantially equal area, the leaves formed by the folds being folded in opposite directions to overlie each other and form a plurality of leaves in the stuffer, and a fold formed between the inwardly extending cuts to cause the leaves to lie over the letter sheet.

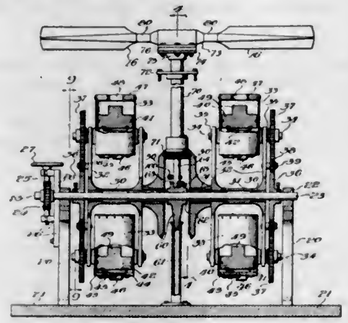
CARNEGIE LIBRARY OF ATLANTA

1,783,023. CUTTER. SAMUEL G. MARTIN, West Somerville, Mass., assignor to The Barrett Company, a Corporation of New Jersey. Filed Sept. 25, 1923. Serial No. 664,667. 6 Claims. (Cl. 164—49.)



1. In a cutter, means for continuously feeding a strip of flexible strap-making material, a cutter, means for intermittently operating said cutter at various time intervals to stop and to cut the strap-making material and a guide between said cutter and feeding means adapted to permit the strap material to buckle when the material is stopped by the cutter.

1,783,024. FLYING MACHINE. DANIEL P. MCLAUGHLIN, Chicago, Ill. Filed Apr. 22, 1929. Serial No. 356,957. 22 Claims. (Cl. 244—19.)



1. In a body having means for propelling it, an auxiliary device comprising rotary mechanism including freely movable means for producing atmospheric suction by employing centrifugal force, to co-operate with said propelling means in moving said body.

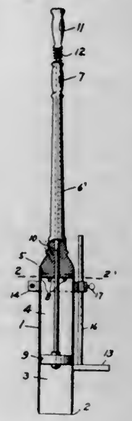
1,783,025. ANTENNA. ALEXANDER MEISSNER, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany, a Corporation of Germany. Filed June 17, 1925, Serial No. 37,826, and in Germany July 25, 1924. 4 Claims. (Cl. 250—33.)



2. A space radiation antenna comprising a conductor the current distribution in which contains a whole and a half current loop, and reactance devices located symmetrically with respect to the whole current loop.

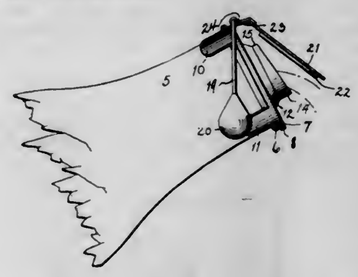
1,783,026. TRANSPLANTING DEVICE. WILLIAM R. OBER, Llanerch, Pa. Filed Mar. 5, 1929. Serial No. 344,312. 1 Claim. (Cl. 55—18.)

A device of the character stated comprising an elongated cylindrical shell of thin material having a positively closed top and an open bottom, said shell being of equal diameter throughout its extent having at its lower end an outwardly bevelled annular cutting portion, said shell forming a combined transplanting chamber and air compression chamber, said air compression chamber being provided with an annular series of ports at its top, a casing of relatively thick material extended from said shell in a tapering manner and having a hand grip formed integral therewith at its top, a piston rod extended through said casing which is solid, a piston, a vertically



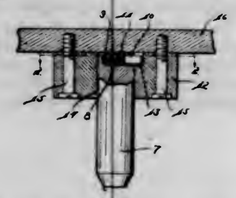
disposed handle for said piston rod the vertical axis of which parallels the vertical axis of the cylinder, a coiled spring between the top of said hand grip and the bottom of said handle, a split ring adjustable vertically and horizontally with respect to said shell, a vertical stem carrying a horizontal foot rest adjustable vertically of said split ring, and a thumb nut for securing said foot rest in adjusted position, whereby the lowest position of the piston may be accurately gauged for compression purposes for expelling a plant without interfering with that part contained in the cylinder.

1,783,027. BOTTLE CLOSURE. CAMILLO SAVINO, City Island, N. Y. Filed Aug. 13, 1928. Serial No. 299,397. 1 Claim. (Cl. 215—63.)



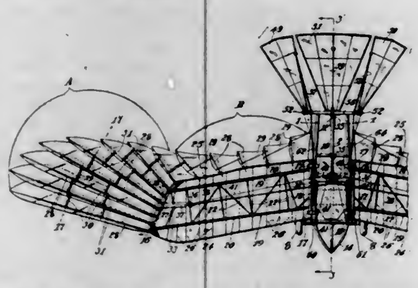
A bottle closure comprising a plate having an annular flange and a plurality of depending tongues frictionally engaging the mouth of a bottle, a pouring spout formed with said plate, the front wall of said spout being higher than the rear wall thereof, a flanged lid normally closing said spout, said lid having a rear extension bent backwardly on itself forming a pivotal connection for a pintle, spaced ears on each side of said pivotal connection, a pintle or rod passing through said ears, said rod being bent downwardly and inwardly toward the neck of said bottle and weights carried at the ends of said pintle or rod.

1,783,028. QUICK-CHANGE PUNCH AND HOLDER THEREFOR. CLARENCE F. SHERIDAN, Detroit, Mich. Filed May 31, 1928. Serial No. 281,703. 1 Claim. (Cl. 279—93.)



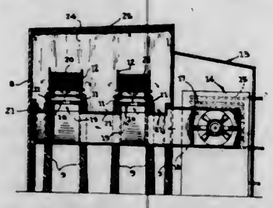
A device of the class described comprising: a punch holder having a bore formed therein and provided on its upper face with a recess communicating with said bore, one of the side walls of said recess being tangent to said bore and the other side wall being radial to said bore; a punch insertable into said bore; a radially movable locking member on said punch engageable in said recess for locking said punch against removal from said holder; and resilient means for normally thrusting said radially movable locking member outwardly beyond the periphery of said punch, into said recess, the rotation of said punch in said holder, effecting, through engagement of said locking member with said tangent side wall, an inward movement of said locking member to inoperative position.

1,783,029. ORNITHOPTER. GEORGE R. WHITE, Stony Brook, N. Y. Filed Oct. 31, 1927. Serial No. 229,884. 8 Claims. (Cl. 244—20.)



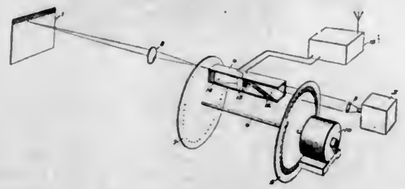
1. In a flying machine, a wing comprising an air-foil section and a feathered section, the feathered section comprising a plurality of feathers having twistable quills, and means to limit the twisting of said quills relative to each other.

1,783,030. KILN. JAMES ALLEN WORDEN, Antigo, Wis. Filed June 24, 1929. Serial No. 373,398. 4 Claims. (Cl. 34—46.)



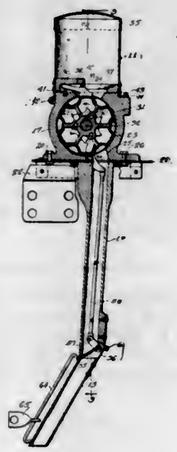
1. In a kiln, an enclosure, a heating unit thereadjacent, an outlet flue, a return flue, said flues extending between opposite ends of said enclosure and the heating unit, and a pair of conduits extended between said flues and communicating with the same and with the interior of the enclosure, said conduits being oppositely tapered.

1,783,031. TRANSMISSION OF PICTURES. ERNST F. W. ALEXANDERSON, Schenectady, and RAY D. KELL, Scotia, N. Y., assignors to General Electric Company, a Corporation of New York. Filed July 24, 1928. Serial No. 295,006. 3 Claims. (Cl. 178—6.)



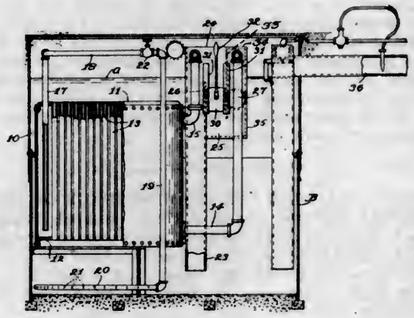
1. A picture transmitting system including a Kerr cell, polarizing groups of transparent plates mounted on opposite sides of said cell, the planes of polarization of the two groups being arranged at right angles to each other, a lense disk arranged to project light through said plates and said cell, and a perforated disk arranged to receive the light transmitted through said cell and said plates.

1,783,032. SEED-REPLANTING ATTACHMENT FOR CULTIVATORS. EVERETT AYERS, Brooklyn, Ill., assignor of one-third to Hester Ayers, Chicago, Ill., and one-third to James Ayers, Camden, Ill. Filed June 23, 1928. Serial No. 287,774. 3 Claims. (Cl. 111—51.)



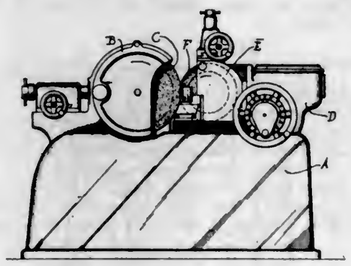
1. In a seed planter for cultivators having a yieldable inclined shovel, a seed magazine having an outlet therein, a vertically disposed chute communicating with said outlet, means in said magazine for feeding measured quantities of seeds from said outlet to said chute, a gate hinged at the lower end of said chute on a horizontal axis for retaining a measured quantity of seed therein ready for discharge, a vertically movable rod located within said chute, the lower end of said rod being connected to said gate, the upper end of said rod being arranged to be actuated by said feeding means, a discharge spout hinged on the lower end of said chute on a horizontal axis, and means connecting said chute and spout for retaining said spout in an inclined position with its discharge end in close proximity to said shovel so as to deposit seeds immediately in back of said shovel.

1,783,033. SOIL-WATER CATCH BASIN AND HEAT RECLAIMER. FRED S. BOLTZ, Mansfield, Mass. Filed Feb. 23, 1928. Serial No. 256,126. 8 Claims. (Cl. 257—122.)



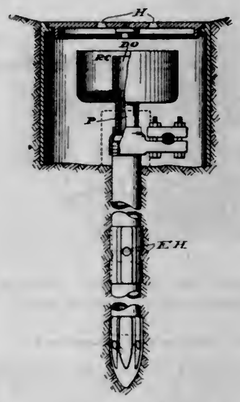
2. An apparatus of the character described comprising a soil water catch basin, a shell mounted in said basin having tube sheets at its top and bottom and a plurality of tubes connecting said sheets, said tubes being open at their ends to soil water in the basin, means for introducing clean water under pressure into said shell and into contact with said tubes, means for discharging the clean water from said shell to a point outside of said basin, an overflow discharge pipe extending from the lower part of said basin to a part of the basin higher than the top of the said shell, a siphon blow-off pipe, one leg of which is open at its lower end to the lower part of the interior of the clean water shell and which extends out of said shell to a point above the clean water shell and is there connected with another leg of the siphon which extends down into the lower part of the waste water basin, said other leg having at its lower end a portion open to the interior of the catch basin, and a valve which controls the passage through said siphon, the pressure of said clean water introduced into the shell and thence through said siphon into the catch basin when said valve is open being adapted to force the soil water and entrained contents up through said overflow pipe, and a discharge outlet from the overflow pipe.

1,783,034. PROCESS OF PRODUCING NONCYLINDRICAL ARTICLES. CLEMENT BOOTH, Cincinnati, Ohio, assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a Corporation of Ohio. Filed June 25, 1928. Serial No. 287,999. 8 Claims. (Cl. 51—278.)



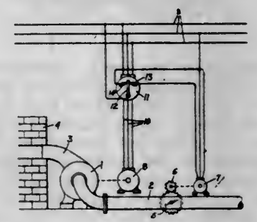
1. The process of producing a non-cylindrical roll consisting in axially progressing a work piece in an arcuate path defined by a grinding member and a control member having contra-generic transversely curved work engaging surfaces.

1,783,035. EARTH ELECTRODE. STEPHEN W. BORDEN, Summit, N. J. Filed June 16, 1928. Serial No. 286,045. 5 Claims. (Cl. 173—31.)



1. In a pipe coupling for earth electrodes; the improvement consisting of a centrally located internal shoulder, of sufficient width to form a seat for the pipe, said seat having a depression in its surface and openings through the coupling wall connecting the depression with the outside of the coupling.

1,783,036. CONTROL MECHANISM FOR CENTRIFUGAL COMPRESSORS AND METHOD OF OPERATING THE SAME. HENRY V. CRAWFORD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 22, 1928. Serial No. 263,932. 4 Claims. (Cl. 230—114.)

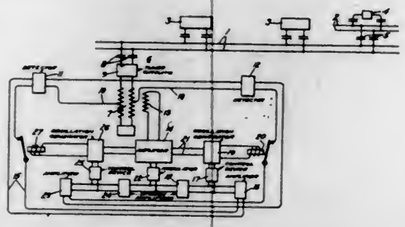


1. A centrifugal compressor having a blast gate, a substantially constant speed electric motor for driving the compressor, said compressor and motor having characteristics such that the power supplied to the motor varies, within the region of normal operation, substantially in the same ratio as the weight of air delivered by the compressor, and automatic means responsive to the power supplied to the motor for operating said blast gate to maintain constant power input to the motor and thereby supply air at a constant weight rate.

1,783,037. HIGH-FREQUENCY SIGNALING SYSTEM. FREDERICK W. FRINK, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 27, 1928. Serial No. 308,775. 12 Claims. (Cl. 179—2.5.)

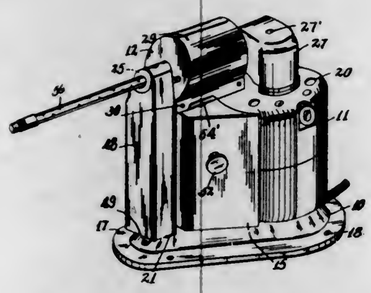
1. The combination in a carrier current communication system, with a plurality of power lines, intercommunicating carrier stations on each line, the stations on different lines operating at different frequencies, a carrier channel interconnecting said lines, and means located upon one of said lines between stations on said line for receiving sig-

nals from any of said stations with a carrier wave having predetermined frequency and repeating said signal to a station on a different line with a carrier wave having the



frequency at which said last station operates whereby duplex communication may be effected between stations on different lines.

1,783,038. ELECTRIC PENCIL SHARPENER. DAVID J. GAWRON, Brooklyn, N. Y. Filed Aug. 27, 1930. Serial No. 478,078. 8 Claims. (Cl. 120—96.)



1. An electric pencil sharpener, comprising a base, a motor attached on the base so that its sides are vertical, a vertical support plate spaced from the motor and attached on the base, a pencil sharpener extending horizontally across the motor and the vertical plate and operatively connected to the motor, an automatic switch for starting the motor upon the insertion of a pencil into the sharpener and mounted upon the vertical plate, a drawer for receiving shavings from the sharpener and formed with a window at the rear and slidably mounted on the base between the motor and the vertical plate, and means on base to hold drawer in place, said vertical support plate comprising a flange formed with an aperture at its upper end for rotatively mounting the sharpener, and lugs bent at right angles to the plate at the lower end for mounting the plate to the said base.

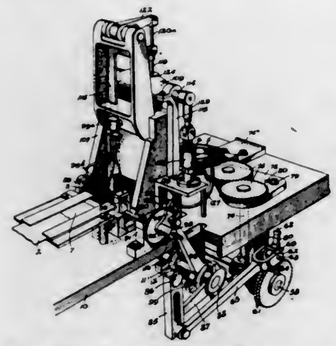
1,783,039. FEED CHUCK. FRANK E. GREEN, Pittsburgh, Pa. Filed Feb. 18, 1930. Serial No. 429,345. 5 Claims. (Cl. 29—62.)



1. In a feed chuck, the combination of a tubular holder, a plurality of spring metal grippers having end portions to fit the holder and removably mounted in said holder, said grippers having intermediate portions bowed inwardly toward the axis of the holder to form stock-gripping fingers, and means for compressing the grippers longitudinally to increase their stock-gripping action.

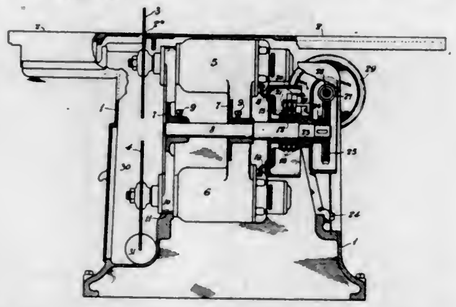
5. In a feed chuck, the combination of a tubular holder having an internal wedging shoulder at one end, a member screwed into the other end of the holder and forming a second internal wedging shoulder, and a plurality of spring metal grippers having end portions to fit the holder held in said holder between said shoulders, the intermediate portions of said grippers being bowed inwardly to form stock-gripping fingers, and the compression of said fingers being regulated by the degree of insertion of said member in said holder.

1,783,040. MACHINE FOR FORMING RINGS OF SEGMENTAL PIECES. EMILE J. GUAY, deceased, Swampscott, Mass., by Fred Germain, administrator, Swampscott, Mass., and FREDRICK S. GODFREY, Lynn, Mass., assignors to General Electric Company, a Corporation of New York. Filed Aug. 19, 1927. Serial No. 214,188. 4 Claims. (Cl. 164—49.)



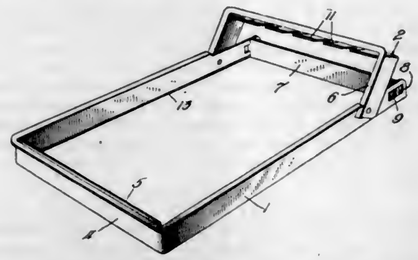
1. In a machine for cutting pieces from material and stacking the pieces one on another in overlapping relation, the combination of a reciprocating cutting means for cutting pieces from the material, step by step means for feeding the material under the cutting means, a holder in front of the cutting means, means for supporting a cut-off piece in alignment with the edge of the material whereby a cut-off piece is transferred to the holder by movement of the material when the material is advanced under the cutting means, and means for imparting turning movement to the holder.

1,783,041. WOODWORKING MACHINERY. JAMES E. HIRST, Cincinnati, Ohio, assignor to The J. A. Fay & Egan Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 22, 1929. Serial No. 387,615. 6 Claims. (Cl. 143—45.)



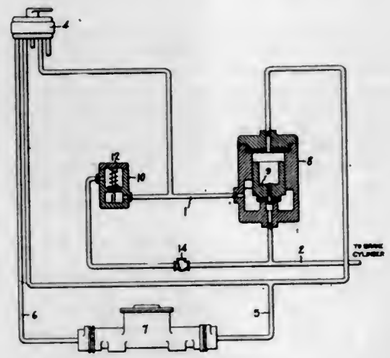
2. In a woodworking machine of the class described, a frame, a table therefor, a plurality of circular saws, a motor directly connected with each saw, means for moving said saws within said frame so that when one of said saws is extending through an opening in the table the other of said saws will be concealed within the frame of the machine, and switching means for completing the electrical circuit to the motor of the saw extending through the table, said switching means being actuated by the means for moving said saws and automatically severing the electrical circuit to the motor of the saw concealed within the frame of said machine.

1,783,042. TYPE-PAGE FRAME. EDWARD B. HOWE, Olympia Fields, Ill. Filed Mar. 2, 1928. Serial No. 258,502. 12 Claims. (Cl. 101—404.)



1. In a type page holder, a rectangular frame, pivotal means for clamping the type form in the frame, and resilient means integral with said frame for holding the type under pressure after the form has been clamped.

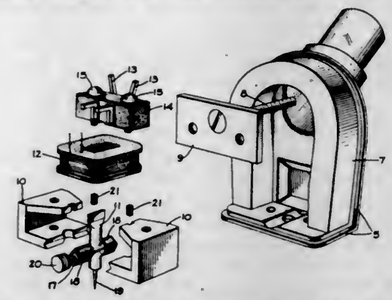
1,783,043. AIR-BRAKE SYSTEM. CHARLES A. IVES, Lawrence Park, Pa., assignor to General Electric Company, a Corporation of New York. Filed May 22, 1929. Serial No. 365,171. 6 Claims. (Cl. 303—61.1.)



1. In an air brake system, a straight air pipe, a brake cylinder pipe, door controlling mechanism, and means for permitting the pressure in said brake cylinder pipe to build up to the pressure in said straight air pipe when the doors controlled by said mechanism are closed and for limiting the pressure in said brake cylinder pipe to a predetermined value when said mechanism is operated to open the doors.

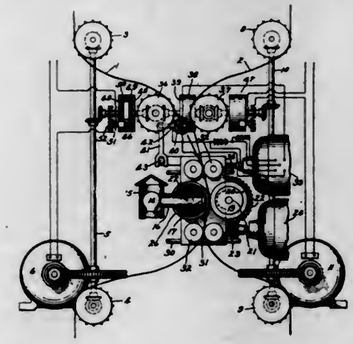
1,783,044. REPRODUCER. EDWARD W. KELLOGG, Schenectady, N. Y., assignor to The General Electric Company, a Corporation of New York. Filed Dec. 1, 1925 Serial No. 72,541. 18 Claims. (Cl. 179—100.41.)

5. The combination of an armature member adapted to be rocked to and fro and provided with a plurality of stylus holding surfaces, and clamping means symmetrically disposed about the rotational axis of said armature for producing pressure at a point intermediate said surfaces.



18. The combination of a magnet, a coil interposed in the flux path of said magnet, an armature having a rigid non-circular shaft extending at right angles thereto, a resilient bearing for said shaft adapted to maintain said armature in a central position, said armature being adapted to be rocked to and fro for varying the path of the flux transmitted through said coil by said magnet, one end of said armature being adapted to receive a stylus, and means extending through said shaft for holding said stylus in position.

1,783,045. CONTACT FILM PRINTER. EDWARD W. KELLOGG, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 4, 1929. Serial No. 397,394. 9 Claims. (Cl. 95—75.)

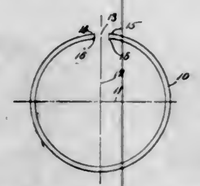


1. A contact film printer comprising means for moving a plurality of films having different degrees of shrinkage in contact with each other through an exposing light, means for causing the film to move in a curved path when passing through the light with the more shrunken film on the concave side, and means for adjusting the curvature of said path to compensate for the difference in shrinkage of the films.

1,783,046. PROCESS FOR THE SEPARATION OF COBALT AND IRON FROM SOLUTIONS RICH IN IRON AS OBTAINED BY LIXIVIATING ROASTED PYRITES. NILS ERIK LENANDER, Trondhjem, Norway, assignor to Orkla, Grubeaktiebolag, Lokken Verk, near Trondhjem, Norway. Filed June 27, 1929, Serial No. 374,263, and in Germany July 26, 1926. 2 Claims. (Cl. 75—18.)

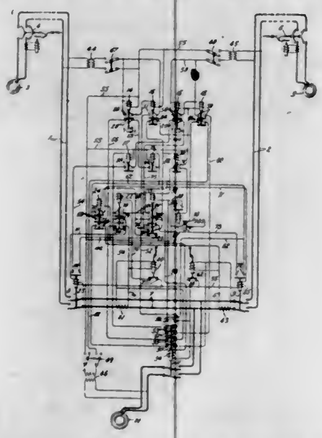
1. The process of recovering cobalt from solutions, containing besides cobalt also iron in the ferrous state, comprising the steps of subjecting the ferrous iron to the oxidizing action of an alkali metal chlorate, precipitating the ferric iron thus obtained and further treating the remaining solution to recover the cobalt contained therein.

1,783,047. METHOD OF MAKING STEEL PISTON RINGS. LEWIS C. MARSHALL, Walpole, Mass. Filed June 1, 1927. Serial No. 195,720. 28 Claims. (Cl. 29—156.6.)



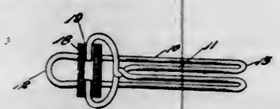
1. That method of making split packing rings from hard steel wire or rod which comprises as steps bending a length of wire or rod, whose surface at least is sufficiently hard to form a good bearing against a cylinder wall, to form a single annular turn, severing said turn from the material before completing a subsequent turn, at such a point as to form a ring having a gap therein, and removing any burr produced in severing the material.

1,783,048. CONTROL SYSTEM. ROBERT Y. MCCULLOUGH, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 22, 1929. Serial No. 334,314. 10 Claims. (Cl. 171—97.)



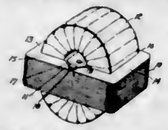
1. In combination, two normally disconnected independently energized circuits, a source of current normally disconnected therefrom, and means responsive to the voltages of said circuits for effecting the connection of said circuits together when the voltage of one of said circuits deconnected therefrom, and means responsive to the voltages of the other circuit is above a predetermined value and for effecting the connection of both of said circuits to said source when the voltages of both of said circuits are simultaneusly below predetermined values.

1,783,049. NECKTIE CLIP. ELBERT D. MILKS, Salamanca, N. Y. Filed Feb. 21, 1930. Serial No. 430,229. 9 Claims. (Cl. 24—255.)



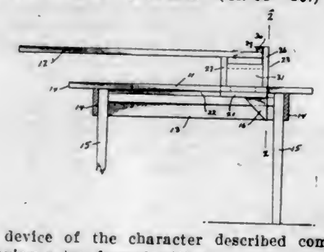
1. A necktie holder formed of a length of resilient wire folded upon itself forming opposed gripping arms, a roll having an axial opening, and one end of one of said arms being arranged to extend into said roll to provide a trunnion on which the same may rotate, the end of the wire arm opposite the roll extending beyond the roll and being turned outwardly to facilitate positioning the holder on the fabric.

1,783,050. MAGNETIC CORE. WAYNE J. MORRILL, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed Apr. 22, 1930. Serial No. 446,376. 3 Claims. (Cl. 175—356.)



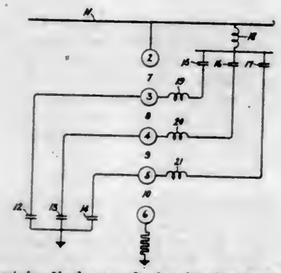
1. A laminated magnetic core for electrical induction apparatus, said core including a laminated outer part forming two outer legs and yokes connecting said legs, a laminated central leg part between said yokes, means for securing the laminations of at least one of said parts together, there being a non-magnetic gap between at least one end of said winding leg and the adjacent yoke, and a rivet through said gap, said rivet being expanded throughout its length against the adjacent leg and yoke laminations.

1,783,051. COMBINED IRONING BOARD AND TABLE. WILLIAM PALMER, Buffalo, N. Y., assignor of one-half to Ernest W. Astels, Buffalo, N. Y. Filed May 18, 1928. Serial No. 278,865. 5 Claims. (Cl. 68—10.)



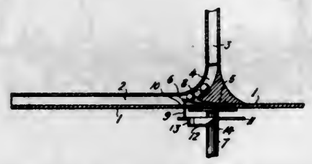
1. A device of the character described comprising a table having a top formed with an opening therein, a removable ironing board arranged within the opening, a slidable member mounted beneath the opening and movable in a plane substantially parallel to the top, and foldable supporting means pivotally secured to the slidable member, comprising two interspaced supports for engaging one end of the ironing board and holding it in position for use, one of the supports engaging the ironing board on its under side and the other support engaging the board on its upper side.

1,783,052. ELECTRIC DISCHARGE DEVICE. FRANK W. PEEK, Jr., Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Mar. 2, 1926. Serial No. 91,684. 3 Claims. (Cl. 175—30.)



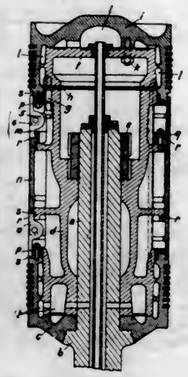
1. An electric discharge device having a series of gaps and an electrode on each side of each gap, the last electrode at one end of the series constituting one terminal electrode of the device and the last electrode at the opposite end of the series constituting another terminal electrode, the gaps adjacent to the terminal electrodes constituting terminal gaps, the remaining gaps and electrodes of the series being located between the terminal gaps, said remaining electrodes and gaps constituting intermediate electrodes and gaps, capacitance between each intermediate electrode and one of the terminals of the device, a corresponding balancing capacitance interposed between each intermediate electrode and the opposite terminal electrode of the device, and an impedance element interposed between one of the terminal electrodes of the device and said intermediate electrodes in series with the capacitance located between the same terminal electrode, and the intermediate electrodes whereby a differential spark-over characteristic is imparted to the device with respect to high frequency and low frequency currents.

1,783,053. CENTRIFUGAL GUN. BADEN FLETCHER SMYTH BADEN-POWELL, Riverhead, Sevenoaks, England. Filed Nov. 26, 1929, Serial No. 409,887, and in Great Britain Jan. 28, 1929. 19 Claims. (Cl. 89—10.)



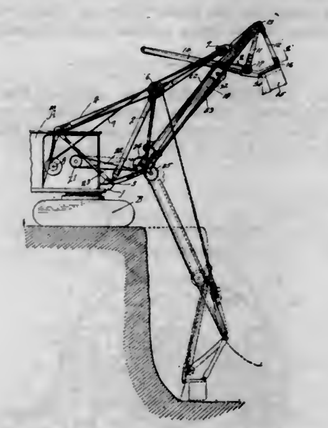
1. Apparatus for discharging projectiles by centrifugal force comprising, a central chamber rotatably mounted, a barrel carried by and radiating from said chamber, means for feeding projectiles into said chamber, retaining means for preventing the discharge of the projectile until the centrifugal force of the projectile has reached a predetermined amount when the projectile will be released, and retaining control means acting to determine the position of the barrel at which the release takes place.

1,783,054. PISTON FOR INTERNAL-COMBUSTION ENGINES. JOHANNES RADLOFF, Berlin, Germany, assignor to General Electric Company, a Corporation of New York. Filed Nov. 20, 1928, Serial No. 320,675, and in Germany Dec. 13, 1927. 6 Claims. (Cl. 123—176.)



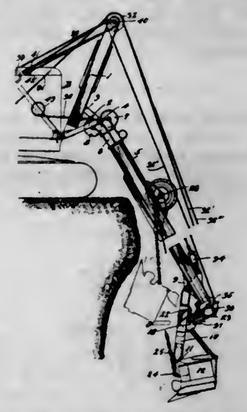
1. In a piston structure for double-acting internal combustion engines, the combination of a piston rod, a supporting body on the rod, piston heads adjacent the upper and lower ends of and positioned by said supporting body, said piston heads comprising end walls which are fixed to said supporting body and integral flanges which are free to expand and contract, and a piston shell carried by the supporting body and located between the integral flanges, said piston shell being connected to the supporting body at only one point whereby it is free to expand in an axial direction.

1,783,055. HOE-TYPE SHOVEL CRANE. LESLIE A. RUSSELL, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed June 19, 1926. Serial No. 117,099. 31 Claims. (Cl. 214—138.)



1. In a shovel crane as described, in combination, a crane body, a boom pivoted to said body, a dipper handle movable in opposite directions and mounted on said boom, an indigging dipper carried by the boom and connected with said handle, means for raising and lowering the boom and at the same time causing movements of the dipper handle, and means for positively moving the handle in either of opposite directions.

1,783,056. INSTROKE SHOVEL CRANE. LESLIE A. RUSSELL, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed June 19, 1928. Serial No. 264,601. 13 Claims. (Cl. 214—138.)



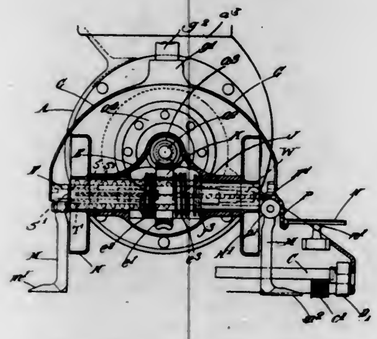
1. In combination, a hoe type shovel crane comprising a swing body, a main supporting boom thereon having an

off-standing dipper boom arm, means for raising and lowering the said dipper boom arm of the main supporting boom, a dipper boom pivoted to the dipper boom arm, and an in-stroke dipper mounted upon the dipper boom, with means for controlling the crowding in and the out-haul movements of said dipper.

1,783,057. PRESERVATION OF LATEX. KURT SCHUSTER and HEINRICH HOPFF, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Apr. 6, 1928, Serial No. 268,071, and in Germany Apr. 20, 1927. 13 Claims. (Cl. 18—50.)

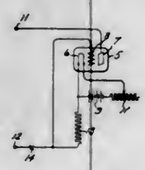
6. A process for the preservation of latex, which comprisea adding to the latex sodium dicresylphosphate.

1,783,058. VACUUM CLEANER. HERBERT BRAND SHARMAN and ALBERT EDWARD BURRAGE, Northampton, England. Filed Mar. 4, 1927, Serial No. 172,719, and in Great Britain Apr. 29, 1926. 2 Claims. (Cl. 15—17.)



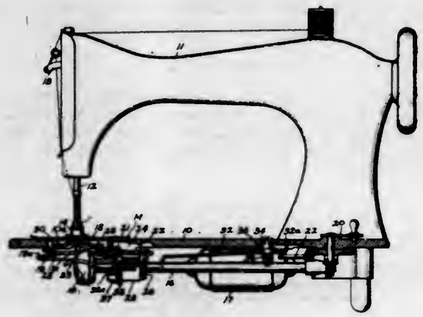
1. In a vacuum cleaner, a staud, a casing adapted to rest on said stand and having an outlet, an inlet communicating with the interior of said casing, a rotatable shaft, a suction fan secured on said shaft and adapted to be revolved thereby in said casing, an internally screw threaded tubular axle geared to said shaft, an externally screw threaded plunger within said axle, a pedal, a flexible connection between said pedal and said plunger adapted to draw said plunger longitudinally and thereby rotate said axle, means to prevent rotation of said plunger in said operative movement, and means to return said plunger inoperatively.

1,783,059. MEANS FOR RECTIFYING ALTERNATING CURRENT. EDWIN E. SPITZER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 12, 1928. Serial No. 312,167. 5 Claims. (Cl. 250—27.)



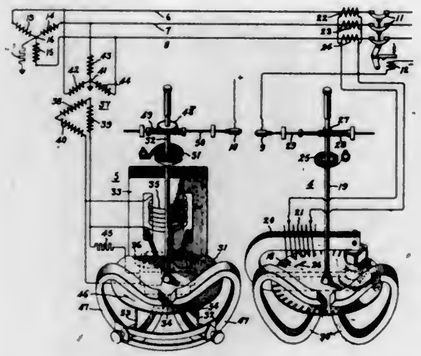
1. A linear rectifier means for alternating current comprising an electric discharge device having an electron emission limit above its working range and provided with a cathode, an anode and a control grid, a resistor connecting said grid and the cathode, the resistance value of said resistor being such that the volt-ampere rectifier characteristic of said device is rendered substantially rectilinear, and alternating current supply terminals connected with the anode and the control grid.

1,783,060. SEWING-MACHINE FEEDING MECHANISM. HUGH M. STEPHENSON, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed Aug. 30, 1927. Serial No. 216,485. 16 Claims. (Cl. 112—204.)



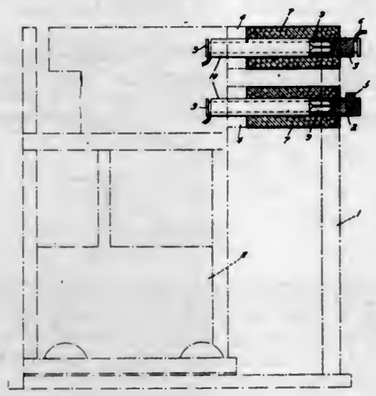
1. In a sewing machine having a cloth-plate, a universal feeding mechanism comprising a feed-dog arranged below the top of said cloth-plate, a vertically movable member, means for supporting said member so as to provide for rotatable adjustment of the same, means for supporting said feed-dog on said member and for actuating the same to feed material in response to vertical movement of said member in any position of rotatable adjustment so that the feeding mechanism can be adjusted to feed in all directions.

1,783,061. PROTECTIVE ARRANGEMENT. OLIVER C. TRAVER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 11, 1927. Serial No. 212,347. 8 Claims. (Cl. 175—294.)



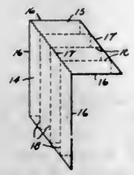
1. In combination, an electric circuit, and controlling means therefor comprising a relay having an electroresponsive movable member, means for actuating said member at a velocity dependent on the residual current of the circuit when said current is above a predetermined value, a cooperating electroresponsive movable member, and means for positioning said cooperating member in accordance with the resultant voltage to ground of the conductors of the circuit.

1,783,062. ELECTRIC SWITCH. HENRY TRENCHAM, Ruislip, England, assignor to General Electric Company, a Corporation of New York. Filed Dec. 10, 1923. Serial No. 679,720. 3 Claims. (Cl. 173—332.)



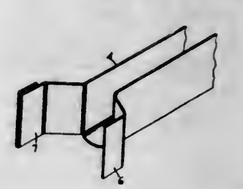
1. An electric switch particularly adapted for use in an explosive atmosphere comprising cooperating plug and socket contact members, and an elongated insulating sleeve secured at one end to one of said members, said end being thereby closed, said sleeve and the other of said members being adapted to make a relatively long, closely fitting, sliding contact with each other after the contact members are separated to cool below their ignition point gases expelled upon explosions occurring within said sleeve at the separation of the contacts.

1,783,063. MAGNETIC CORE. JACOB J. VIENNEAU, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Dec. 23, 1929. Serial No. 415,901. 2 Claims. (Cl. 29—155.5.)



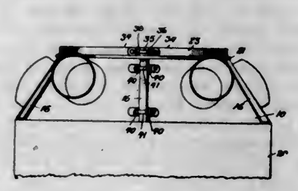
1. The method of producing L-shaped magnetic core lamination members, said method including the steps of severing two sections from magnetic strip sheet material along lines making acute complementary angles with the side edges of said strip material, welding said sections together end to end with their side edges respectively at right angles, thus forming a welded unit, and severing L-shaped members from said unit along lines parallel to the side edges of the sections of the unit and meeting at the weld.

1,783,064. DYNAMO-ELECTRIC MACHINE. PAUL WACHSMANN, Berlin-Halensee, Germany, assignor to General Electric Company, a Corporation of New York. Filed May 14, 1928, Serial No. 277,770, and in Germany July 21, 1927. 4 Claims. (Cl. 171—206.)



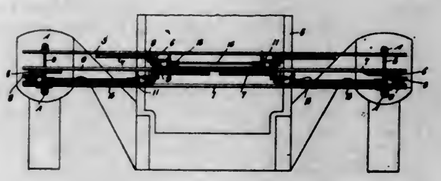
3. A bar for squirrel cage windings having a tubular body and being split at the ends thereof, each end of said bar having one straight split portion and another folded split portion for directly joining the bar to another.

1,783,065. FURNACE TOP. HERBERT A. ACER, Medina, N. Y., assignor to Acer & Whedon, Inc., Medina, N. Y., a Corporation of New York. Filed May 27, 1930. Serial No. 456,105. 6 Claims. (Cl. 126—114.)



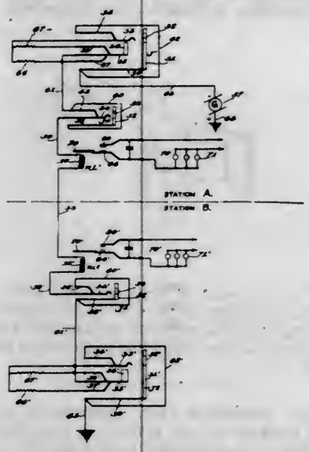
1. In a furnace top, a horizontally disposed circular rail member having a central opening and a groove extending radially from the central opening, the rail member having a sand rail extending above the groove, and a top member having a circular periphery disposed to close the central opening and having its periphery normally disposed in the groove.

1,783,066. AUTOMOBILE TRAP BUMPER. JAROSLAV AMLER, Stamford, Conn. Filed May 2, 1930. Serial No. 449,256. 3 Claims. (Cl. 293—15.)



3. In a device for the purpose set forth, pivotally supported spring influenced arched gripping members, latching means for holding the members in non-gripping position, swingable bumper bars connected with the latching members and designed when contacted to release such latching means to permit of the gripping members swinging to gripping position.

1,783,067. ELECTRIC POWER CIRCUIT CONTROL SYSTEM. FRED M. ANDERSON, New Orleans, La. Filed Jan. 12, 1929. Serial No. 332,006. 6 Claims. (Cl. 178—2.)



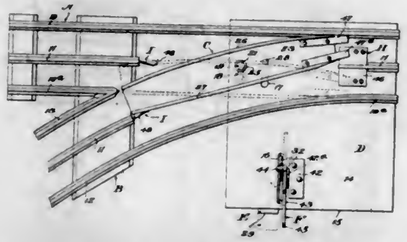
1. In electric power circuit control systems of the class described, a normally open local power circuit at each of two stations, an automatic switching device for controlling each of the said local circuits, a normally closed control circuit at each of the said stations, one inter-connected with the other and with the said automatic switching devices, switching means in each of the said control circuits, and means for actuating said last named switching means whereby either of the same may be operated to first momentarily open both of the said control circuits to cause the said automatic switching devices to close the said local circuits, then to reclose the said control circuits without affecting the said automatic switching devices, said switching means being thereafter operable to momentarily effect an increase in the value of the current in the said control circuits to again cause the said automatic switching devices to operate and open both of the said local circuits, and thereafter to reduce the current to its normal value without affecting the said automatic switching devices.

1,783,068. FOLDING CONTAINER. ISAAC APPELBAUM, Brooklyn, N. Y. Filed Mar. 3, 1930. Serial No. 432,692. 2 Claims. (Cl. 206—7.)



1. A folding box formed of a single blank, comprising juxtaposed body portions and an intermediate base, side and end end walls for said body portions, said end walls being folded upon themselves to form reinforcing strips terminating at substantially the mid-height of said end walls, means for fastening said reinforcing strips to said end walls, foldable end extensions for said side walls adapted to form corners for the box, and further to reinforce said end walls, means for securing said extensions to the juxtaposed end portions of said end walls and said reinforcing strips, and a hanger member integral with the edge of one of said reinforcing strips and adapted to extend over and substantially parallel to the adjacent body portion, the end extensions of said side flaps being adapted to be retained between the ends of said reinforcing strips and said end walls when the box is in erected condition.

1,783,069. TRACK SWITCH FOR TOY ELECTRIC RAILROADS. HARRY S. BECKER, River Forest, Ill., assignor to American Flyer Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 23, 1929. Serial No. 342,152. 15 Claims. (Cl. 246—419.)



1. A track switch for toy electric railways comprising fixed wheel bearing rails for main and branch lines, a pivotally movable switch frog for controlling the movement of a train through the main line or onto the branch lines, a base for supporting the frog, and tensioning means for holding the frog against the base.

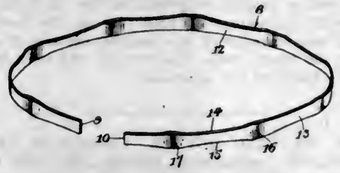
1,783,070. SCREW DRIVER. FREDERICK R. BERGEMANN, Pueblo, Colo. Filed Mar. 22, 1930. Serial No. 438,093. 3 Claims. (Cl. 145—52.)



1. A screw driver comprising a handle, a shank carried by the handle, the free end of the shank having a blade for engagement with a groove in the head of a screw, the shank being provided with a notch forming a seat to receive a portion of the head of a screw, a resilient blade connected to the shank and having a free end terminating adjacent the notch for engaging a groove of the screw and for retaining the head in the notch.

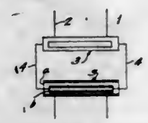
1,783,071. SPREADER. EDWARD J. BUDLONG, Hanford, Calif., assignor to Budlong & Funchess Motor Products Co., Hanford, Calif. Filed May 29, 1928. Serial No. 281,435. 2 Claims. (Cl. 74—109.)

1. A spreader comprising a split band, said band provided with a plurality of circumferentially spaced portions resistant to curvature and further provided with portion intermediate said resistant portions adapted to flexibility and said band further having each of the



edges of each of the portions between said resistant portions formed with clearances for the passage of a lubricant.

1,783,072. ANTENNA SYSTEM. HENRI CHIREIX, Paris, France. Filed Sept. 8, 1925, Serial No. 55,087, and in France Sept. 9, 1924. 9 Claims. (Cl. 250—33.)



2. An antenna arrangement comprising an upright antenna conductor with substantially uniformly spaced condensers in series with it distributed along its length.

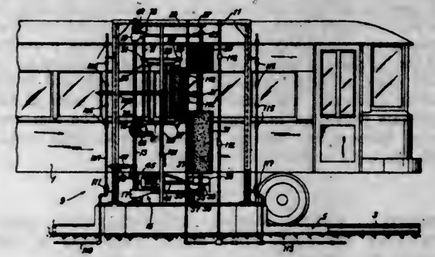
1,783,073. BALANCING OF CRANK SHAFTS. CLAUDE CLENCH, Dumfries, Scotland. Filed Feb. 26, 1929, Serial No. 342,750, and in Great Britain Mar. 31, 1928. 2 Claims. (Cl. 74—38.)



2. A crank shaft comprising a series of flanged sections bolted together and balancing rings mounted on the joints between said sections and forming the journal bearings for the shaft.

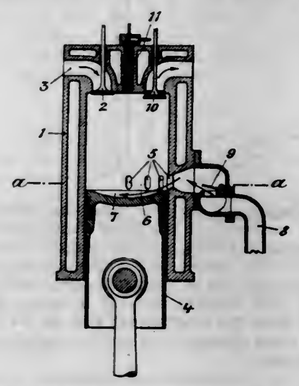
1,783,074. CAR-WASHING MACHINE. HENRY CORDELL, Wilmette, and JOHN ROBERT BLACKHALL, Highland Park, Ill.; said Cordell assignor to said Blackhall. Filed Nov. 21, 1929. Serial No. 408,834. 8 Claims. (Cl. 15—53.)

1. A car washer comprising a stationary frame, a movable primary frame pivoted thereon, said primary frame carrying rotatable brushes, motivating means located on said primary frame and movable therewith for driving said brushes, a secondary frame on said primary frame and



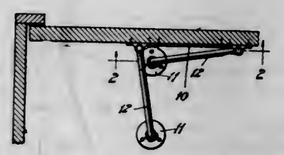
movable with respect thereto, a rotatable brush on said secondary frame and driving means connecting the first-named brushes with the last-named brush.

1,783,075. INTERNAL-COMBUSTION ENGINE. KUNO EISENBURGER, Bistrita, Rumania, assignor to the Firm of Sulzer Frères Société Anonyme, Winterthur, Switzerland. Filed Dec. 16, 1929, Serial No. 414,551, and in Switzerland Dec. 13, 1928. 1 Claim. (Cl. 123—76.)



In a four-stroke fuel-injection combustion engine, a cylinder and an air-inlet valve in the head thereof for the main scavenging air, a piston having a concave head, said cylinder wall having downwardly and tangentially opening ports therein for the admission of auxiliary scavenging air, said ports being connected to a manifold surrounding at least a part of said cylinder wall, a header connected to the outer end of said manifold by one side and a source of compressed air by the other side, and a non-return valve in said header for preventing products of combustion from entering the source of compressed air.

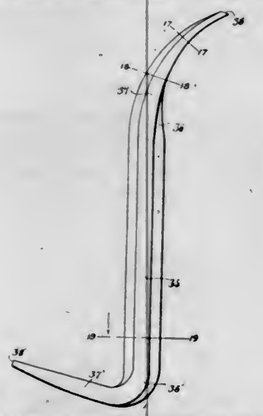
1,783,076. HINGE. WILLIAM LEWIS EVANS, Washington, Ind. Filed Oct. 19, 1928. Serial No. 313,529. 2 Claims. (Cl. 16—163.)



1. In a multiple pivot hinge of the character described, plate members providing means to secure the hinge to a

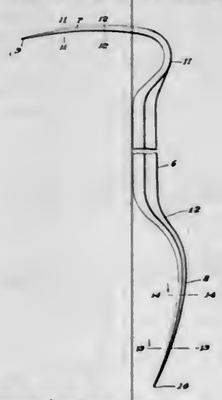
door; vertical bearing sockets drilled through said plate members and of uniform diameter throughout their lengths; Z-shaped bars having vertical, parallel arms; reduced terminals formed on said arms extending through the bearing sockets and presenting shoulders at their inner ends; closely fitting washers on the reduced terminals between the shoulders and the bearing sockets providing end thrust bearing elements; closely fitting washers on the outer ends of said terminals also providing end thrust bearing elements; and heads formed on the ends of said terminals providing integral shoulders for the last mentioned washers and holding the washers in close contact with the ends of the bearing sockets.

1,783,077. SHEET-METAL-BUMPING-OUT TOOL. WILLIAM FERGUSON, Flint, Mich. Filed May 4, 1928. Serial No. 275,217. 10 Claims. (Cl. 81—15.)



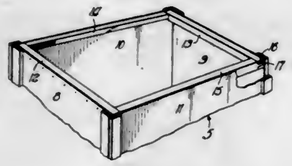
1. A bumping-out tool for removing indentations in the metal structure of a vehicle comprising a bar-like handle having a curved coupling portion extending from each end of the handle, and a tapered elongated anvil provided at each end of the handle and connected to the handle by said coupling portions to extend in opposite directions from the longitudinal axis of the handle and one anvil being disposed at a greater angle to the handle than the other.

1,783,078. BUMPING-OUT TOOL. WILLIAM FERGUSON, Flint, Mich. Continuation of application Serial No. 275,215, filed May 4, 1928. This application filed Aug. 30, 1929. Serial No. 389,565. 22 Claims. (Cl. 81—15.)



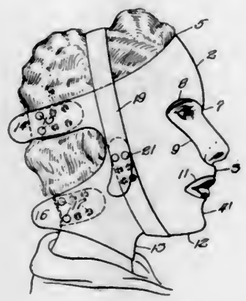
1. A bumping-out tool for removing indentations in the metal body of a vehicle, comprising a blade-like anvil adapted for insertion between the metal body of the vehicle and its inner frame construction and having a bumping surface to rest against the inner surface of the metal body while the body and frame remain in assembled relation, and a handle connected to the blade-like anvil and disposed opposite the inner face of the anvil that the latter may be inserted into position between the metal body and the inner frame construction and held in place during the bumping out operation.

1,783,079. PACKING DEVICE. CHARLES W. GERLACH, Wheaton, Ill., assignor to Chicago Mill and Lumber Corporation, Chicago, Ill., a Corporation of Delaware. Filed Feb. 20, 1930. Serial No. 429,846. 7 Claims. (Cl. 217—53.)



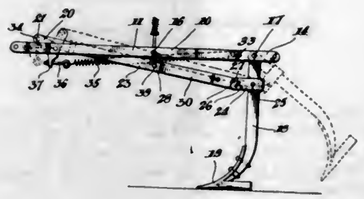
7. A packing case having an internal spacing and reinforcing frame in close contact with the four side walls of the case, at least two members of the frame being secured to opposite side walls of the case, and at least one member being freely removable outwardly from the other members when its corresponding side wall is released, but secured against movement in either direction parallel to the plane of said wall by means on the frame members.

1,783,080. FACE MASK. MARIE GIMENEZ, Chicago, Ill. Filed Jan. 21, 1929. Serial No. 333,784. 2 Claims. (Cl. 128—164.)



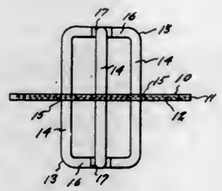
1. A facial mask constructed of a single piece of imperforate elastic sheet material having a single opening for the eyes and nose and a separate opening for the mouth, the opening for the eyes and nose being of approximately triangular shape with the side edges of the triangle each cut on a convex curve, so that the side portions of the mask contiguous to said side edges will contact with the cheeks of the wearer as close to the nose as may be possible, the top edge of said triangular opening being provided with a depending middle portion which is positioned to engage the face intermediate between the eyebrows and approximately at the junction of the nose and forehead, said mask having a chin portion extending rearwardly beneath the chin, and means for securing the mask in place.

1,783,081. DRAGBAR FOR CULTIVATORS. JOHN GODDARD and RAYMOND ARTHUR CALVERT, Smiths Falls, Ontario, Canada, assignors to the Firm Frost & Wood, Smiths Falls, Canada. Filed June 1, 1928. Serial No. 282,200. 3 Claims. (Cl. 97—184.)



1. A seeder or cultivator tooth mechanism comprising a main draw bar, a tooth standard pivotally connected to one end of said draw bar, a channel-shaped member formed with spaced and orificed lugs at one extremity and terminating in a solid orifice lug at the other extremity, the said channel-shaped member being pivotally mounted in the opposite end of the main draw bar, a longitudinally extending coil spring adjustably connected to the solid orificed lug at one extremity of the channel-shaped member and anchored to the main draw bar at the end whereon the shank is mounted, a bent plate member embracing the shank, an auxiliary draw bar pivotally and adjustably connected to said plate and pivotally connected to the spaced and orificed lugs on the channel-shaped member.

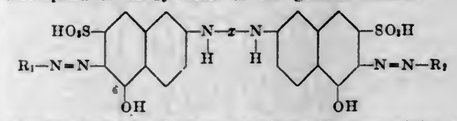
1,783,082. DRAIN PROTECTOR. GEORGE B. GROSJEAN, Shreveport, La. Filed April 17, 1930. Serial No. 445,147. 1 Claim. (Cl. 210—170.)



In a drain protector, a screen comprising an outer flange member and a wire screening attached to said flange member, and a plurality of legs secured to said screen and spaced from the center of said screen and from each other, each of said legs comprising a vertical portion and horizontal upper and lower end portions, the vertical portions being disposed through said screen and permanently secured thereto intermediate the ends thereof, whereby said legs extend above and below the plane of said screen, and means rigidly securing the horizontal upper and lower ends of said legs together.

1,783,083. DYESTUFFS CONTAINING METALS AND PROCESS OF MAKING SAME. HANS GUBLER and GUILLAUME DE MONTMOLLIN, Basel, and JOSEPH SPIELER, Laufen, Switzerland, assignors to the Firm Society of Chemical Industry in Basle, Basel, Switzerland. Filed July 9, 1929, Serial No. 377,068, and in Switzerland July 14, 1928. 10 Claims. (Cl. 260—12.)

1. As new articles of manufacture the azodyestuffs containing complex bound metals, which, on the one hand, correspond to azodyestuffs of the general formula



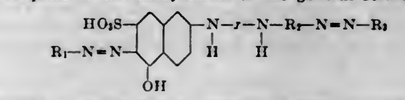
wherein $\mathfrak{a}$ stands for an organic residue containing at least one carbon atom, the



groups being linked to such carbon atoms of said residue which are united by a double bond with a nitrogen, oxygen or sulfur atom, and wherein R_1 means the residue of a benzene nucleus characterized by the presence of a COOR-group (R=H or alkyl) standing in ortho-position to the —N=N— group, and R_2 is the residue of a benzene nucleus characterized by the presence of a COOR- or OR-group (R=H or alkyl) standing in ortho-position to the —N=N— group, and, on the other hand, contain complex bound metals of the atomic weight ranging between 52.1 and 63.6, which products are dark powders which dye vegetable fibers and artificial fibers of the regenerated cellulose orange, red, bordeaux and brown tints of excellent fastness to light.

1,783,084. DYESTUFFS CONTAINING METALS AND PROCESS OF MAKING SAME. HANS GUBLER, Basel, Switzerland, assignor to the Firm Society of Chemical Industry in Basle, Basel, Switzerland. Filed July 9, 1929, Serial No. 377,069, and in Switzerland July 14, 1928. 10 Claims. (Cl. 260—12.)

1. As new articles of manufacture the azodyestuffs containing complex bound metals which, on the one hand, correspond to the azodyestuffs of the general formula



wherein $\mathfrak{a}$ stands for an organic residue containing at least one carbon atom, the

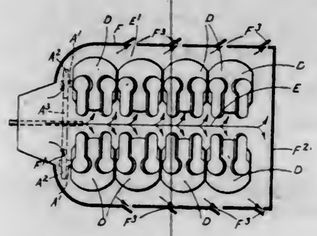


groups being linked to such carbon atoms of said residue which are united by a double bond with a nitrogen, oxygen or sulfur atom, and wherein R_1 means the residue of a benzene nucleus characterized by the presence of a COOR-group (R=H or alkyl) standing in ortho-position to the —N=N— group, R_2 is an aryl nucleus, and R_3 an aryl nucleus which carries a carboxyl group and a OH-group standing in ortho-position to each other, and which, on the other hand, contain complex bound metals of the atomic weight ranging between 52.1 and 63.6, which products form dark powders dyeing the vegetable fiber yellow-brown to orange reddish-brown tints.

1,783,085. INTERNAL-COMBUSTION ENGINE. FRANK BERNARD HALFORD, London, England. Filed Apr. 23, 1928, Serial No. 272,125, and in Great Britain Nov. 23, 1927. 6 Claims. (Cl. 123—171.)

1. An internal combustion engine including in combination a crank case, two parallel crankshafts mounted in the crank case, a driven shaft, an operative driving connection between the crankshafts and the driven shaft,

two adjacent rows of air-cooled cylinders associated respectively with the two crankshafts and disposed with the axes of the cylinders in one row parallel to those of the cylinders in the other row, and means including an



obstruction at one end of the air space between the adjacent rows of cylinders whereby air flowing through this space is caused to flow laterally between and over all the cylinders in each row.

1,783,086. METHOD OF TREATING ETHYL ALCOHOL. CARL HANER, Moylan, Pa., assignor to Publicker, Inc., Philadelphia, Pa., a Corporation of Delaware. Filed Oct. 3, 1928. Serial No. 310,196. 2 Claims. (Cl. 202—68.)

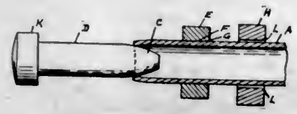
1. The method of treating alcohol-water mixtures which comprises dissolving alkali hydroxide in the alcohol-water mixture, applying heat to the mixture, condensing and removing from the system a distillate whose composition is higher in alcohol than the constant boiling mixture, thereafter condensing and removing from the system a second portion containing less alcohol, and then stopping the distillation with sufficient alcohol and water remaining with the alkali hydroxide to keep it in a liquid condition at the temperature of distillation.

1,783,087. AUTOMATIC SEMITRAILER. HARRY W. HELMS, Edgerton, Wis., assignor to Highway Trailer Company, Edgerton, Wis., a Corporation of Wisconsin. Filed July 26, 1928. Serial No. 295,567. 30 Claims. (Cl. 280—33.1.)



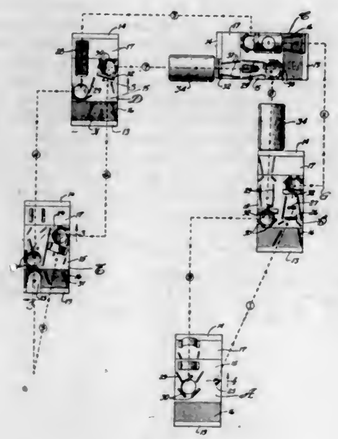
1. In combination with a tractor and a semi-trailer having a main frame, a fifth wheel, providing a turntable connection between said tractor and trailer, said fifth wheel including a lower member carried on the tractor and an upper member slidably mounted on the trailer main frame and forwardly extensible relative to said frame during uncoupling of the tractor from the trailer, means causing tilting of said upper member as it is forwardly extended, and supporting means rigidly connected to said upper member and movable therewith into trailer-supporting position when said upper member is moved to its extended and tilted position, said upper member when in such extended position being adapted for rearward movement relative to the main frame, upon coupling of the tractor and trailer, said combined tilting and rearward movement of the upper member simultaneously rendering said supporting means inoperative.

1,783,088. METHOD OF AND APPARATUS FOR RESHAPING DEFORMED PIPE ENDS. CHARLES A. HILL, Port Huron, Mich., assignor to Mueller Brass Co., Port Huron, Mich., a Corporation of Michigan. Filed July 27, 1929. Serial No. 381,445. 8 Claims. (Cl. 153—79.)



1. Apparatus for reshaping tube ends which comprises means for compressing said tube ends to the desired interior and exterior diameter, and means for removing said compressing means from said tube end comprising a longitudinally movable ring.

1,783,089. HOME GOLF GAME. BARNEY ETS HOKIN, Chicago, Ill. Filed Sept. 11, 1930. Serial No. 481,290. 5 Claims. (Cl. 273—32.)



1. In units for a miniature golf game, each unit adapted to lie on a relatively smooth surface and having a raised platform portion with a cup simulating opening adjacent one end thereof whereby to provide a substantial ball rolling surface as an approach to the cup simulating opening, a chute communicating with said opening to direct a ball from said unit into playing position with respect to another unit, inclined surfaces leading up to the platform adjacent the opposite ends thereof, and a plurality of spaced and angularly positioned hazards on said ball rolling surface, some of which hazards are arranged about the opening so as to form a path for a ball when the ball is played up on the platform portion from one end of the unit and to form a guard for said opening when the ball is played up on the platform from the opposite end of the unit.

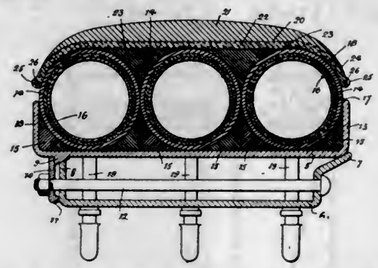
1,783,090. FOUNTAIN PEN. JOHN A. KIEDROWSKI, Chicago, Ill. Filed Mar. 21, 1930. Serial No. 437,911. 5 Claims. (Cl. 120—42.)

1. In a fountain pen, a barrel, a pen point at one end of the barrel, a plurality of collapsible ink reservoirs within the said barrel, selective means to direct ink from any one of the reservoirs to the pen point, means operatively connected with each reservoir to collapse the



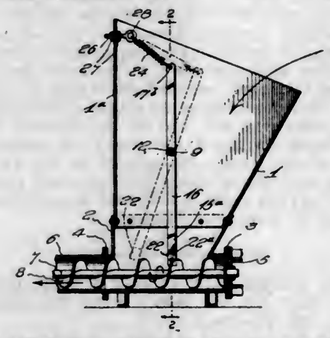
reservoirs to fill the same, and means common to all of the reservoirs, collapsing means to selectively collapse any one of the reservoirs.

1,783,091. RESILIENT TIRE. MATHIAS LEUPOLD, Jamaica, N. Y. Filed May 25, 1929. Serial No. 365,906. 6 Claims. (Cl. 152—22.)



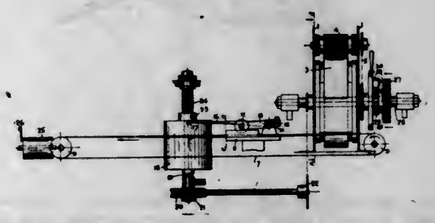
1. In a resilient tire, a rim having outwardly extending sides, a plurality of separate tubes, each tube having integral cushions at its sides, the cushions on each tube being free from the cushions on adjacent tubes and which are disposed in the space between the sides of the rim, a tread disposed around the tubes, the tread having beyond the outer tubes inwardly extending sides spaced at all times from the rim and V-shaped cushions integral with the tread and disposed inwardly to engage the outer adjacent sides of the tubes.

1,783,092. AGITATOR FOR COAL HOPPERS. BASIL C. LEWIS, Frederick, Md., assignor to The Frederick Iron & Steel Company, Frederick, Md., a Corporation of Maryland. Filed Apr. 8, 1930. Serial No. 442,668. 6 Claims. (Cl. 259—39.)



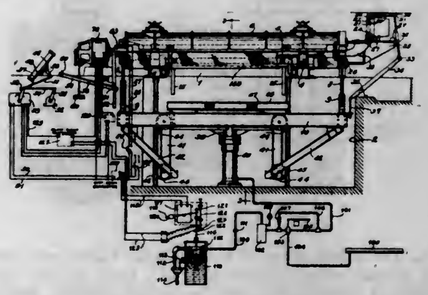
1. An agitator for coal hoppers of the screw conveyor type comprising a rigid frame structure including a plurality of frame members shaped to substantially conform with the interior contour of the coal hopper, means for pivotally mounting said frame members for rockable movement within the coal hopper, the frame members terminating in a depending end adapted to engage with the convolutions of the screw conveyor, and a plurality of spring means for adjustably tensioning said frame structure for movement within the coal hopper under control of the screw conveyor.

1,783,093. CIGARETTE-MAKING MACHINE. WALTER EVERETT MOLINS, Deptford, London, England. Filed Feb. 25, 1928, Serial No. 257,004, and in Great Britain Mar. 26, 1927. 10 Claims. (Cl. 284—1.)



1. In apparatus for checking the consistency of cigarettes, the combination with means adapted to receive cigarettes and to compress a portion of the cylindrical surface thereof to a predetermined radius, mechanism for carrying a series of cigarettes in line through said means, and a device adapted to bear upon the uncompressed portion of the cigarettes for indicating variations in the uniformity thereof.

1,783,094. CENTRIFUGAL CASTING MACHINE. WILLIAM D. MOORE and WALTER MORGAN, Birmingham, Ala., assignors to Sand Spun Patents Corporation, New York, N. Y., a Corporation of Delaware. Filed June 4, 1928. Serial No. 282,718. 21 Claims. (Cl. 22—65.)

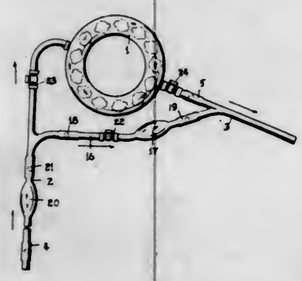


1. In a centrifugal casting machine, means to support a flask for rotation about a substantially horizontal axis, means to rotate the flask, means for removing a charged flask laterally from the machine toward one side, and means for inserting a flask to be charged into the machine from the other side.

1,783,095. DEVICE FOR PUMPING FLUIDS. JOHN ROBB MUIRHEAD, Kirkcaldy, and JOHN WILLIAM MILLS, Adelaide, South Australia, Australia. Filed Nov. 20, 1928, Serial No. 320,616, and in Australia Nov. 26, 1927. 1 Claim. (Cl. 103—148.)

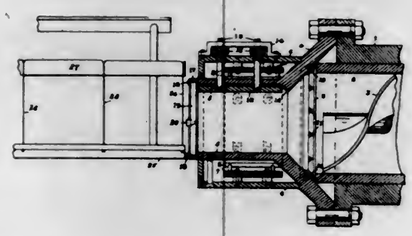
A device of the character described comprising a resilient tube having confined therein a plurality of large resilient perforated bulbs, an inlet tube connected to said first mentioned tube and provided with a supplementary

bulb, a valve disposed upon opposite sides of said supplementary bulb, a cock in said inlet tube disposed between one of said valves and said first named tube, an outlet tube connected to said first named tube having a valve, a cock between said valve and said first named tube, and a by-pass tube connected to said inlet tube between said cock and valve of the supplementary bulb, said by-pass tube being connected to said outlet tube in advance of the valve thereof; a cock in said by-pass tube, a valve in



said tube between said cock and said inlet, a bulb disposed in said by-pass and positioned between said cock and said outlet, and a valve between said bulb and outlet, whereby the closing of the cock in the by-pass and opening the cocks in the inlet and outlet tubes enables the device to be used as a pump by alternate compression and expansion of said first named tube, and whereby the closing of the cocks in the inlet and outlet pipes and opening of the cock in the by-pass, enables it to be used as a siphon once the fluid has been set in motion.

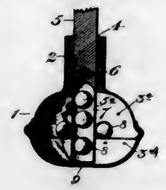
1,783,096. BUTTER-CUTTING MACHINE. WILLIAM J. PEARCE, McKeesport, Pa. Filed Oct. 31, 1928. Serial No. 316,278. 2 Claims. (Cl. 31—14.)



2. The combination with a conveyer barrel and means for forcing butter therethrough, of a head on said barrel having a rectangular frusto-pyramidal portion adjacent the head and a rectangular prismatic throat leading therefrom, said throat having one of its side walls offset outwardly of a side edge of the minor base of the frusto-pyramidal portion to provide a recess, a false wall located normally in said recess, and a divider member having a frame provided with inclined walls and fitting the said frusto-pyramidal head portion at the end of the barrel whereby butter issuing from the barrel is first divided longitudinally and is then pressed to force the divided portions together before passing into said throat.

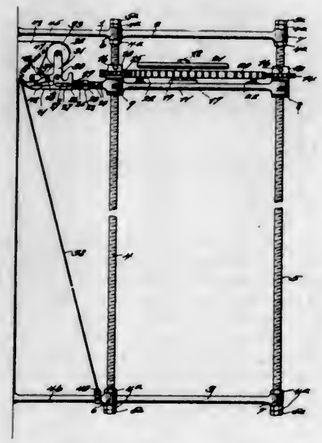
1,783,097. SANITARY DOORKNOB. BASILIO POLCARI, Somerville, Mass. Filed Nov. 11, 1929. Serial No. 406,466. 2 Claims. (Cl. 292—347.)

1. A hollow door knob having openings leading from the outer surface of the knob to the interior thereof; a knob bolt extending into the knob through the neck thereof and projecting from the neck inwardly into the main body of the knob, said inwardly projecting porton of the bolt having a longitudinal recess extending inwardly from the end thereof; and a disinfectant in lump form carried in said recess, the opening in the end of the bolt leading



into said recess being partially closed to prevent the escape of the disinfectant in bulk from said opening in the bolt, but left sufficiently open to permit the access of air thereto, whereby to volatilize the disinfectant and to cause its gradual escape from the knob through the openings therein.

1,783,098. PLASTERING MACHINE. FRIGYES POTYIK, Philadelphia, Pa. Filed Mar. 7, 1929. Serial No. 345,102. 6 Claims. (Cl. 72—130.)

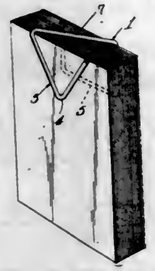


1. In a plastering machine, the combination with a frame having screw guide rods and provided with wall props, the latter adapted to bear against the wall or other surface which receives the plaster, of a carriage operable on the screw rods and having manually operated gear connections with the rods whereby the carriage may be fed manually in a vertical direction on the rods, said carriage having an extension yieldably mounted thereon, and a plastering apron connected to the lower part of the frame and having pay out connections with the extension of the carriage for applying the plaster to the wall, means operably associated with and on the extension carriage for saturating the apron, and means for regulating the position of the apron with relation to the wall to be plastered, and a mortar trough associated with the plastering roller and the apron to retain the mortar between the apron and the wall to be plastered.

1,783,099. PAPER CLIP. HENRY J. RIES, Iowa City, Iowa. Filed Oct. 28, 1929. Serial No. 402,978. 1 Claim. (Cl. 24—261.)

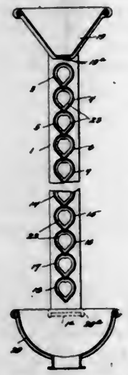
A paper clip composed of a piece of wire bent to form a U-shaped and a V-shaped clamping member arranged in

overlapping relation with a rod connecting the upper corner of one member with the upper corner of the other member, the free ends of said wire being oppositely positioned at the corners of the clip, and the apex of the V-shaped



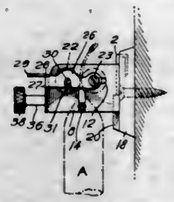
member lying against one face of the lower cross bar of the other member and shiftable to position said apex against the other face of said lower cross bar to adapt the members of the clip to effectively clamp the paper when in either position.

1,783,100. MILK COOLER. LOUIS ROSENFELD, Baltimore, Md., assignor to Cherry-Burrell Corporation, Chicago, Ill., a Corporation of Delaware. Filed Feb. 15, 1929. Serial No. 340,209. 1 Claim. (Cl. 257—183.)



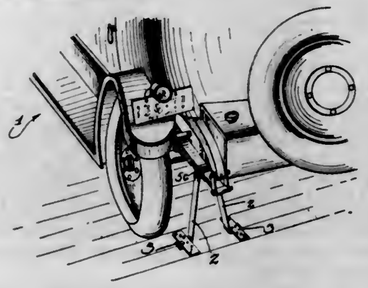
A milk cooler comprising opposed upright hollow headers, each having a vertical series of tubular bosses heart-shaped in cross section and tubes, heart-shaped in cross section, extending between the headers and having their ends fitting around the bosses, the apex of each tube fitting into the recess in the tube next below it, the headers having partitions therein for causing the cooling fluid to flow through the tubes in succession.

1,783,101. TOILET-PASTE-TUBE COMPRESSOR. ADOLPH O. SCHAEFER, Brooklyn, N. Y., assignor to Atlantic Service Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed June 19, 1929. Serial No. 372,106. 4 Claims. (Cl. 221—60.)



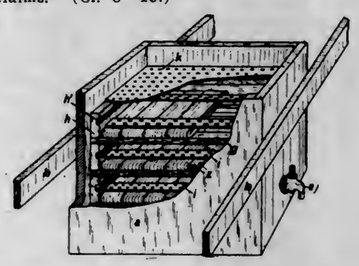
1. A paste tube compressor comprising a frame, said frame having at said sides hole openings and slot openings in alignment therewith, a roller having its axes journaled in the hole openings, a roller journaled and slidable in the slot openings, said rollers having gear wheels, a handle member pivotally connected with the axis of one of the rollers and having recesses adapted to receive the axis of the other roller, and means carried by the frame for turning one of the gear wheels.

1,783,102. REENFORCED HOLD-DOWN FOR LOADING AUTOMOBILES AND OTHER VEHICLES. MAX D. TUCKER and CLIFFORD L. SNYDER, Detroit, Mich., assignors to The Evans Auto Loading Co. Inc., Detroit, Mich. Filed Nov. 23, 1928. Serial No. 321,421. 7 Claims. (Cl. 188—32.)



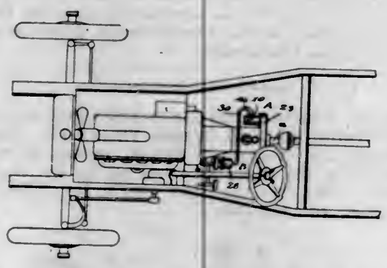
1. The combination with an automobile holddown comprising a strap, of a reenforcing element interlockingly engaged with the strap.

1,783,103. APPARATUS FOR WASHING, BLEACHING, AND DYEING ARTIFICIAL SILK IN HANKS OR SPINNING CAKES. JOSEPH VON DEN DRIESCH, Dresden, Germany, assignor to the Firm Fr. Küttner Aktiengesellschaft, Pirna-on-the-Elbe, Germany. Filed May 8, 1928, Serial No. 276,133, and in Germany Apr. 16, 1927. 4 Claims. (Cl. 8—19.)



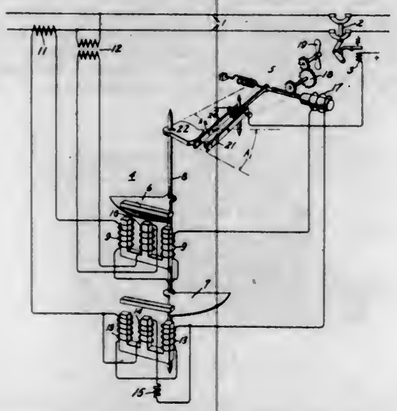
1. In an apparatus for liquid treatment of fibrous material in the form of spinning cakes, comprising a framework, a series of spraying devices with nozzles mounted above the framework in spaced relation to each other, the alternate nozzles being adapted for delivering sprays of chemically active liquids and the intermediate nozzles for delivering rinsing liquid; a series of troughs of substantially rectangular cross-section fitting in said framework to register with the nozzles and provided with means for removably supporting them therein, a hurdle in each trough consisting of alternating grid bottoms and frames stacked on top of each other, perforated strips of flexible material adapted to be sprung into position in horizontal grooves provided therefor in opposite side walls of said frames, said hurdles being so dimensioned that the spinning cakes may be packed tightly on the bottoms between said side walls and held down by said strips, thereby providing space between each layer of said cakes and the next bottom.

1,783,104. BRAKE MECHANISM. WINSTON C. BARKER, Detroit, Mich. Filed Mar. 1, 1929. Serial No. 343,797. 1 Claim. (Cl. 188—90.)



The combination with the propeller shaft of a motor vehicle and the usual foot brake pedal thereof, a brake cylinder, a rotor within said cylinder and operably connected to the said propeller shaft, a pressure cylinder, a conduit connecting said brake cylinder, a body of liquid confined within said cylinders and conduit, a piston within said pressure cylinder and operably connected to said foot pedal whereby to force the liquid under pressure into said brake cylinder to completely fill the same and thereby restrain the normal free rotation of said rotor and the said propeller shaft, and an air compression valve connecting said brake cylinder.

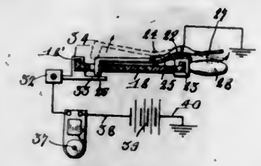
1,783,105. CIRCUIT PROTECTION. JOSEF BIERMANNS, Karlshorst, Germany, assignor to General Electric Company, a Corporation of New York. Filed Aug. 24, 1925, Serial No. 52,143, and in Germany Sept. 16, 1924. Renewed Apr. 18, 1930. 12 Claims. (Cl. 175—294.)



1. A protective device comprising a time limit relay, an ohm meter and movable members respectively arranged to be actuated thereby, characterized by the fact that one of said members is arranged for movement in the path of movement of the other and is so shaped that for predetermined ranges of movement different definite movements of the other are permitted.

1,783,106. SIGNAL SWITCH FOR DISPENSING APPARATUS. ATHANASE BIRON, Montreal, Quebec, Canada. Filed June 26, 1928. Serial No. 288,330. 1 Claim. (Cl. 200—153.)

An electric switch adapted to be used in combination with a liquid dispensing device, comprising an insulated panel having a plurality of apertures therein, a member movable along one edge of the panel and actuated by suitable means associated with the dispensing device, a second member also movable along the other edge of the panel and having a handle, a lever pivoted to said member and adapted to protrude through the panel apertures, and



spring means to urge the lever to an aperture engaging position, the first and second members being connected to an electric source in series with a signalling device.

1,783,107. HANDLE. FRANCIS BRANDON, New Albany, Ind. Filed Apr. 9, 1929. Serial No. 353,739. 1 Claim. (Cl. 294—57.)



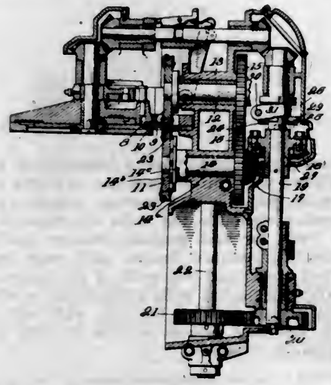
A handle including a one-piece shank having diverging integral arms joined by a rounded crotch and each having its opposed faces parallel, said arms being extended from the rounded crotch along straight lines to points adjacent their free ends, the free end portions of the arms being extended along parallel lines, a grip having squared ends interposed between the parallel portions of the arms, means embracing the arms for preventing them from splitting, a dowel extending through one of the arms and into the grip for holding the grip against rotation, said dowel being retained by one of the means embracing said arm, and a tie device extending through the grip and arm and the arm embracing means and constituting the sole means for holding them against relative movement.

1,783,108. HAIR WAVER. HILDA H. CADY, Saranac Lake, N. Y. Filed Jan. 25, 1930. Serial No. 423,486. 8 Claims. (Cl. 132—41.)



1. A device of the kind described comprising elastic clamping strips provided with interengaging spaced teeth and sockets, and flat surfaces between said teeth and sockets, whereby the individual strands of hair will be held firmly in place when the hair is combed backward and forward to form the wave.

1,783,109. MARKING DEVICE FOR CAN-CLOSING MACHINES. JOHN COYLE, Baltimore, Md., assignor to Continental Can Co. Inc., New York, N. Y., a Corporation of New York. Filed May 21, 1927. Serial No. 193,350. 4 Claims. (Cl. 113—1.)

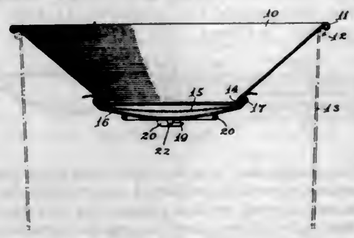


1. In a closing machine, the combination with a seaming head, a stack holder, means for feeding can ends from the stack holder to the seaming head; of mechanism intermediate the stack holder and the seaming head for marking the can ends including steel male die members, a platen of deformable material adapted to be permanently impressed by the male die member after said members are assembled in the closing machine, and means for moving said members relative to each other for marking a can end,

1,783,110. MANUFACTURE OF ACTIVATED CARBON. RUDOLF DEFRIS, Stockerau, and ROBERT WALDER, Vienna, Austria. Filed Feb. 27, 1928, Serial No. 257,540, and in Austria Mar. 3, 1927. 7 Claims. (Cl. 252—3.)

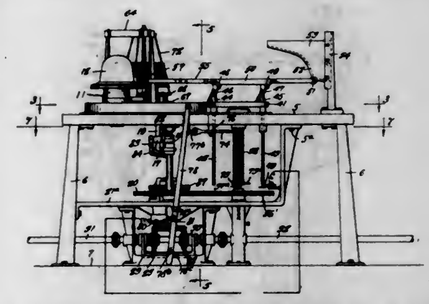
1. The process for the production of activated carbon which comprises forming filamentary passages in agglomerated finely divided carbonaceous material and thereafter treating the carbonaceous material to produce active carbon.

1,783,111. STRAINER. AMOS T. DWIGHT, Red Bank, N. J. Filed Jan. 4, 1930. Serial No. 418,567. 1 Claim. (Cl. 210—159.)



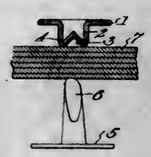
A milk strainer, including a substantially frusto-conical body, apertured ears depending from said body adjacent its inner end, an apertured strainer cloth securing member adapted to fit over said inner end of said body, said member being dish-shaped to provide a central portion below the plane of the inner end of said body, and a securing ring for said member including end fingers engageable within the apertures of said ears, said apertures being above the central portion of said member whereby said ring must be sprung to have its ends received in said apertures thus to provide spring tension on said member.

1,783,112. HAT-MAKING MACHINE. IRVING A. EICHENBAUM, New York, N. Y. Filed Aug. 7, 1929. Serial No. 384,046. 16 Claims. (Cl. 223—31.)



1. A hat working machine consisting of a hat form, means for rotating the hat form, a tool for applying hat making strip material against the hat form, a profile maintaining element, means engaging said element for causing the tool to follow a vertical path corresponding to the form of the element, and means for raising the tool and said last means as the material is wound upon the hat form.

1,783,113. MACHINE-ATTACHED RIVET AND BURR. PAUL E. FENTON, Thomaston, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Aug. 13, 1929. Serial No. 385,649. 2 Claims. (Cl. 85—37.)



1. A burr provided with a flange and a barrel extending from said flange and having a closed and inwardly depressed end, and a rivet or tack having a pointed shank adapted to be driven through the closed end of the barrel and clinched therein, the clinching of the rivet or tack making a hole in the burr no larger than its shank and thereby preventing the drawing through and exposing of the threads or fibres of the material.

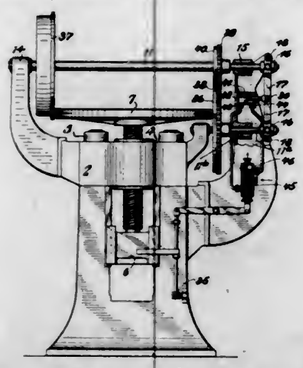
1,783,114. TREATMENT OF MATERIALS TO RETARD FADING. EDGAR W. GEISLER, Brooklyn, N. Y., assignor, by mesne assignments, to R. H. Comey Brooklyn Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Nov. 16, 1926. Serial No. 148,770. 13 Claims. (Cl. 8—2.)

1. A method of retarding the fading of vegetable fibrous material which consists in treating the material with a solution of a thiosulphate.

1,783,115. FRICTIONAL SCREW-SPINDLE PRESS. OTTO GEORG, Herdecke, Germany. Filed July 12, 1927, Serial No. 205,268, and in Germany Feb. 28, 1927. 5 Claims. (Cl. 74—26.)

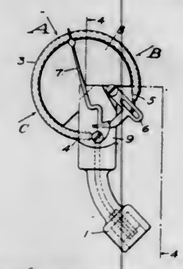
2. A friction screw press comprising a frame, a ram actuating screw spindle mounted on the frame, a horizontal friction disk carried by said spindle, a pair of vertically disposed friction disks at opposite sides of the horizontal friction disk for driving the same in opposite directions, parallel horizontally arranged rotating and sliding shafts in gear with each other and carrying the vertical friction disks and arranged respectively above

and below the horizontal plane of the horizontal friction disk, and manually controlled motor-operated means for simultaneously adjusting said horizontal shafts in one



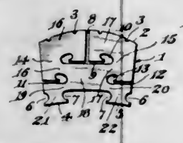
direction or the other and whereby the spindle may be governed to arrest the up and down travel of the horizontal friction disk in any working position in its range of up and down travel.

1,783,116. TIRE GAUGE. WALTER E. GOCHNAUER, La Crosse, Wis., assignor, by mesne assignments, to Moto Meter Gauge & Equipment Corporation, Long Island City, N. Y., a Corporation of Delaware. Filed Jan. 17, 1928. Serial No. 247,344. 1 Claim. (Cl. 73—109.)



A pressure gauge combining a connector element; an expansible element having one end engaging said connector element, an oscillatable pointer, sliding connecting devices between said pointer and said expansible element and supporting means including a flat disk located within the plane of said expansible element engaging the inner surface of said expansible element for limiting the inward movement thereof under exterior shocks and forces.

1,783,117. BRIDGE FOR STRINGED MUSICAL INSTRUMENTS. FREDERICK GOSPARLIN, Chicago, Ill. Filed May 10, 1929. Serial No. 362,056. 12 Claims. (Cl. 84—309.)



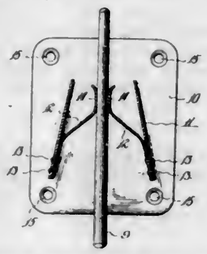
1. A bridge for stringed musical instruments comprising a body formed with a longitudinal slot and a cutout perpendicular to said slot and providing a space opening at its inner end into the top of said slot centrally thereof and opening at its outer end at the top edge of said body.

1,783,118. FLOATING DECK. ALVAH M. GRIFFIN, Los Angeles, Calif., assignor, by mesne assignments, to Chicago Bridge & Iron Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 8, 1927. Serial No. 224,786. 9 Claims. (Cl. 220—26.)



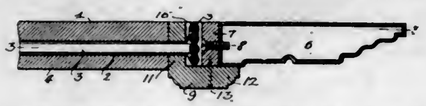
1. A floating deck comprising a plurality of pontoon members formed with bottom walls and upwardly expanding side walls, whereby said pontoon members may be nested together when the top walls are removed therefrom, top walls for said pontoon members having upwardly extending marginal flanges, split tubes enclosing said marginal flanges and side walls of the pontoon members for attaching the top walls and pontoon members together, and gaskets between the side walls and flanges of said top walls and gaskets between the side walls of adjacent pontoon members.

1,783,119. BROOM HOLDER. WILLIAM F. HACKING, Burley, Idaho. Filed Mar. 31, 1930. Serial No. 440,471. 4 Claims. (Cl. 24—257.)



.. A broom holder comprising a wall plate for attaching the device to a wall or other support, a casing attached to said wall plate and open at its upper and lower ends, and opposing spring clamping members mounted within the casing to engage and grip the handle of the broom between them.

1,783,120. CONDUIT BASE AND TRIM. CLARENCE L. HARPER, Philadelphia, Pa. Filed Jan. 11, 1928. Serial No. 245,992. 4 Claims. (Cl. 247—3.)

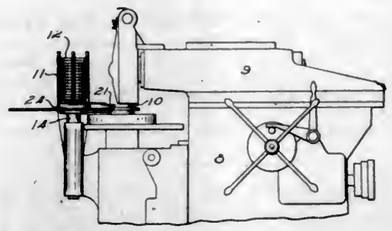


1. The combination in a base and trim for a room having a channel therein for wires, of a cover-strip for closing the channel; a strip secured against the back of the trim of a door or window; and an angular extension trim, one portion of the extension trim arranged to be spaced from the strip to form a channel for the wires, and the other portion arranged to overlap the strip and be operatively secured thereto.

1,783,121. PISTON-RING BURR-REMOVING DEVICE. JOSEPH H. HOERN, Saginaw, Mich., assignor to Wilcox-Rich Corporation, a Corporation of Michigan. Filed Nov. 23, 1929. Serial No. 409,393. 11 Claims. (Cl. 29—33.)

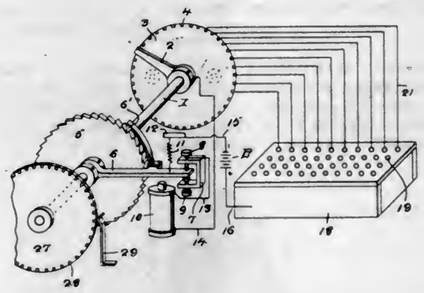
1. The combination of a surface grinding machine having a grinding wheel, a work holder, means providing a

relative feeding movement between the work holder and wheel, a tool for engaging the work when in grinding position, and means operable by said work holder for controlling movement of said tool, to lift the same during such feeding movement.



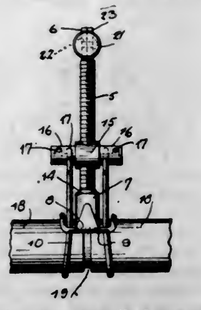
11. The combination of a surface grinding machine having a grinding wheel, a magazine for pieces of work, a conveyor for moving pieces of work from said magazine to said wheel, a tool for trimming pieces of work when in grinding position, a spring arm mounted on said magazine for supporting said tool and normally urging it into operative engagement with the work, and a cam carried on said conveyor for engaging and moving said tool to inoperative position during the feeding movement of said conveyor.

1,783,122. SELECTOR MECHANISM. ALBERT F. HORLACHER, Fredonia, N. Y. Filed May 7, 1927. Serial No. 189,650. 2 Claims. (Cl. 172—239.)



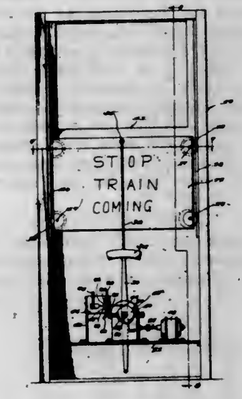
1. A selector device of the class described comprising a shaft, a commutator having its arm connected with the shaft, magnetic means for giving the shaft a step by step rotation, a circuit for the magnetic means including the commutator and key operated means arranged in the circuit for controlling the extent of movement of the parts, such key operated means comprising a plurality of keys arranged in rows, a spring associated with each key, said means being connected with that part of the circuit which is connected with the commutator, a plate arranged under the keys and connected with the other part of the circuit, a plurality of springs insulated from the plate but contacting the plate when depressed, a conducting strip associated with each row of keys and normally engaged by the springs of the keys, means for electrically connecting the conducting strips together, means for electrically connecting one of the strips with the springs carried by the plate, strips of non-conducting material carried by the springs on the plate and engaged by the springs of the keys when a key is depressed whereby the plate will be electrically connected with the springs of the keys which are not depressed, while the spring of the depressed key will be out of electrical contact with the conducting strips and the plate.

1,783,123. HOSE-CLAMP-APPLYING TOOL. JOEL KIVIAHO, Marshfield, Oreg. Filed Apr. 5, 1928. Serial No. 267,719. 2 Claims. (Cl. 81—9.3.)



1. A device of the class described comprising a threaded rod having a turning handle at one end and a clamping band engaging shoe at the other end in which the threaded rod is rotatably mounted, and a nut engaging the threads of the rod and having laterally projecting studs provided with transverse openings spaced from the stud ends to receive the ends of the clamping band, said openings being disposed angularly to the longitudinal axis of said threaded rod, whereby the tool is applied to the ends of the clamping band while out of tightening position and the band ends will become anchored for tightening purposes by swinging the tool to its tightening position.

1,783,124. SIGNAL DEVICE. JESSE L. LAMONT, Geneseo, Ill. Filed Nov. 15, 1929. Serial No. 407,460. 2 Claims. (Cl. 246—130.)

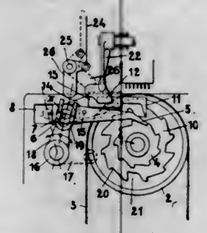


2. A signalling system for railway crossings comprising a movable signal, a casing normally housing the signal, an electrical motor, means for periodically causing actuation of the motor when a train moves into and out of a block adjacent the railway crossing, a shaft driven by the motor, a crank arm having a weight at one end connected intermediate its ends to the shaft, a rod pivotally connected at one end to the end of the crank arm which is opposite to the end having the weight, the other end of the rod being connected with the signal.

1,783,125. CARD-SAVING MOTION. GOTTLIEB LIEBENDER, Oisnitz, Germany, assignor to Koch & Te Kock, Oisnitz, Germany, a Firm. Filed May 3, 1928, Serial No. 274,781, and in Germany Mar. 18, 1927. 3 Claims. (Cl. 139—127.)

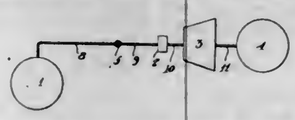
1. In a jacquard card driving mechanism for looms, a card cylinder, a pawl and ratchet wheel drive mechanism

for intermittently rotating the same, a series of feed disks loosely rotatable on the card cylinder shaft and provided with notches different in number and depth for variable feed actions, a control pawl engageable with the notches



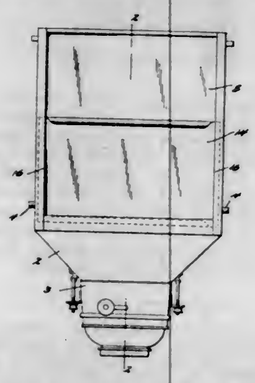
of any of the disks and connected with the drive pawl for shifting the latter into and out of engagement with the teeth of the ratchet wheel, and means for shifting the control pawl relative to the disks for relative engagement with any disk.

1,783,126. TURBINE-DRIVEN LOCOMOTIVE. ALF LYSHOLM, Stockholm, Sweden, assignor to Aktiebolaget Ljungströms Angturbin, Lidingo-Brevik, Sweden, a Corporation. Filed May 1, 1924, Serial No. 710,463, and in Sweden Apr. 30, 1923. 6 Claims. (Cl. 60—70.)



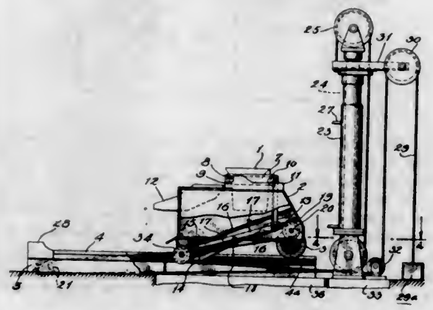
4. In a turbine driven locomotive, a boiler, a main turbine for driving the locomotive, an air forcing device, an auxiliary turbine for driving said air forcing device, a conduit connecting the inlet part of said auxiliary turbine with the boiler, said inlet part comprising two groups of guide blades, the passages between the blades of the one group widening towards the blade wheel of the turbine, whereas the passages between the blades of the other group are of the same width throughout their entire length, and an exhaust pipe from said auxiliary turbine connecting same with the main turbine.

1,783,127. FLOUR BIN FOR KITCHEN CABINETS. ORA N. MCCORMICK, Albany, Ind., assignor to McCormick Brothers Company, Albany, Ind. Filed Nov. 30, 1928. Serial No. 322,780. 2 Claims. (Cl. 209—244.)



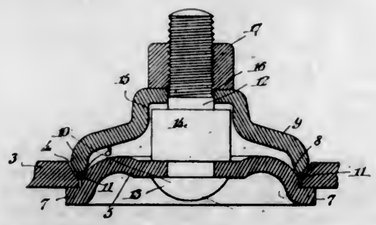
1. A flour bin for kitchen cabinets comprising a casing having a partition therein, dividing it into upper and lower compartments, said partition having a passageway for permitting flour to pass from the former to the latter compartment, a valve for closing said passageway, the lower compartment having an opening at its front side, a door for closing said opening, and a sifter detachably connected to the bottom of the casing.

1,783,128. LADLE-TIPPING DEVICE FOR CASTING MACHINES. WALTER MORGAN, Birmingham, Ala., assignor to American Cast Iron Pipe Company, Birmingham, Ala., a Corporation of Georgia. Filed Dec. 7, 1928. Serial No. 324,463. 12 Claims. (Cl. 22—82.)



2. A charging device for use in a casting machine, including a tiltable ladle movable toward and from the machine, means for guiding the ladle, a common means to first move the ladle toward the machine along the guiding means and to afterwards tilt it to discharge the contents thereof, and counter-weighted means for first restoring the ladle to normal position and afterwards moving the same away from the machine.

1,783,129. HAND-HOLE PLATE. AMAZIAH J. MOSES and FRANK H. WRIGHT, Chattanooga, Tenn., assignors to The Casey-Hedges Company, Chattanooga, Tenn., a Corporation of Ohio. Filed May 5, 1927. Serial No. 188,553. 1 Claim. (Cl. 220—25.)



In a device of the class described, a plate to close a boiler opening, a cap having an edge to be brought substantially into contact with said plate, a boss on said cap projecting outwardly from the central portion of said cap, said boss presenting angularly disposed walls, a bolt carried by said plate and projecting centrally through said boss, an enlargement on said bolt extending from said plate into said boss and having angularly disposed walls to coact with the walls of said boss, and a nut for the outer end of said bolt.

1,783,130. PIEZO-ELECTRIC OSCILLATOR. RUSSELL S. OHL, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed June 24, 1926. Serial No. 118,346. 8 Claims. (Cl. 171—327.)

1. The combination of a piezo-electric crystal, two conductive plates between which the piezo electric crystal

is placed so that it may freely vibrate therebetween, means for manually adjusting the air gap between one conductive

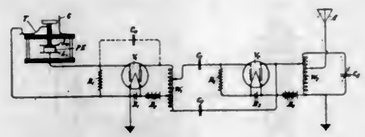
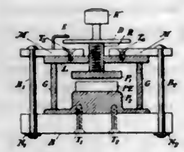


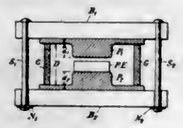
plate and the corresponding surface of the piezo-electric crystal, and means for indicating the distance between the piezo-electric crystal and the latter conductive plate.

1,783,131. MOUNTING FOR PIEZO-ELECTRIC DEVICES. RUSSELL S. OHL, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 23, 1926. Serial No. 137,376. 9 Claims. (Cl. 171—327.)



2. A mounting for a piezo-electric device, comprising two conductive electrodes between which a piezo-electric device may be placed so that it may freely vibrate therebetween, means for adjusting the distance between said conductive electrodes, and means for maintaining the distance between said electrodes substantially independent of external temperature variations.

1,783,132. MOUNTING FOR PIEZO-ELECTRIC DEVICES. RUSSELL S. OHL, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 23, 1926. Serial No. 137,377. 9 Claims. (Cl. 171—327.)

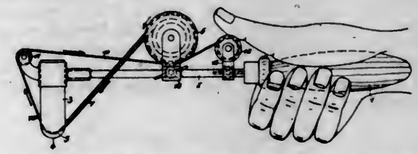


1. A mounting for a piezo-electric device which shall be substantially free from external thermal variations, comprising two metallic electrodes disposed so that the piezo-electric device may freely vibrate therebetween and so that there will be a longitudinal movement of the faces of said electrodes due to external thermal variations, and a tube surrounding the piezo-electric device and coaxial therewith maintaining the metallic electrodes a fixed distance apart, said tube producing a longitudinal movement due to said external thermal variations equal to that of the faces of said metallic electrodes.

1,783,133. ETHYL ALCOHOL-GEL. HEINZ OHLE and JOHANNA OTHMAR-NEUSCHELLER, Berlin, Germany. Filed Nov. 15, 1927, Serial No. 233,516, and in Germany Nov. 30, 1926. 6 Claims. (Cl. 44—7.)

1. As a new composition of matter a solidified ethyl-alcohol containing an alkali-salt of the sulphuric acid half-esters of acetone-derivatives of sugars or polyvalent alcohols as the solidifying agent.

1,783,134. CONTINUOUS SOLDERING. MAX ORENSTEIN, Berlin, Germany. Filed Feb. 9, 1929, Serial No. 338,795, and in Germany Feb. 15, 1928. 12 Claims. (Cl. 113—109.)



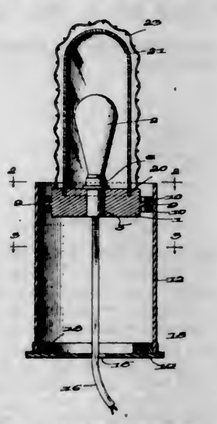
1. A soldering club comprising a handle, a soldering head, storage means for a soldering metal wire containing a carrier wire non-fusible in the soldering heat, means for actuating the said storage means in order to advance the metal wire towards the soldering head in order to fuse soldering metal off the carrier wire and to apply such metal to the soldering head and means for winding up the carrier wire after the soldering metal has been removed therefrom.

1,783,135. CARBON FOR ELECTROTECHNICAL USES AND PROCESS OF MANUFACTURE THEREOF. MARCEL OSWALD, Nanterre, France, assignor to Compagnie Lorraine de Charbons pour l'Electricite, Paris, France, a Corporation of France. Filed May 24, 1928, Serial No. 280,362, and in France Apr. 8, 1927. 1 Claim. (Cl. 266—1.5.)



The method of making carbon conductors metallized on the end, comprising grooving circumferentially a carbon rod while soft, at length intervals equal to the desired lengths of the conductors, breaking the rod in the planes of the grooves providing the conductors thus separated, with rough end surfaces of fracture, bounded by the smoother walls of the said grooves, and metallizing the said surfaces of fracture.

1,783,136. MINING LAMP. JAMES A. PAISLEY, Cleveland, Ohio, assignor to The Valley Camp Coal Company, Cleveland, Ohio, a Corporation of Pennsylvania. Filed July 11, 1929. Serial No. 377,534. 4 Claims. (Cl. 240—36.)



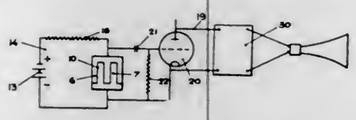
4. In a device of the class described, the combination of a protecting lamp casing having within its upper in-

terior portion opposite pairs of diametrically related spaced guiding lugs, a lamp base fitting within and spaced from said casing and having lugs for cooperating with said guiding lugs, a lamp on said base, said lamp and base arranged to drop by gravity in upright position wholly within said casing, a current carrying cable passing through an aperture in the bottom portion of said casing, and having connection with said lamp, a transparent cover for said lamp and a metallic guard arranged outside of said cover and sustained by the lamp base.

1,783,137. PROCESS FOR MANUFACTURING A GREEN VAT DYESTUFF FROM 1.12 PERYLENE QUINONE. WALTHER PENECKE, Graz, Austria, assignor to Felice Bensa, Genoa, Italy. Filed Jan. 5, 1928, Serial No. 244,772, and in Austria Nov. 19, 1927. 1 Claim. (Cl. 260—61.)

A process for manufacturing a vat dye stuff from 1,12 perylene quinone consisting in that 1,12 perylene quinone is condensed with benzoylchloride by means of aluminium chloride at 140° to 180° centigrade.

1,783,138. TRANSFORMING OF ACOUSTIC SWINGINGS INTO ELECTRIC CAPACITY SWINGINGS. AAGE VALDEMAR PETERSEN, Frederiksberg, by Copenhagen, Denmark. Filed Oct. 2, 1928, Serial No. 309,826, and in Denmark Oct. 5, 1927. 2 Claims. (Cl. 179—106.)



2. A sound receiving and transmitting system including a microphone adapted for transforming of sound waves into electrical waves comprising rigidly mounted electrical conductor bars positioned for the accommodation of dielectric means therebetween, dielectric vapors interposed between said bars and in a state in which the dielectricity constant is highly variable upon pressure and adapted for the reception of sound waves, whereby said conductors respond electrically but non-mechanically to said sound waves.

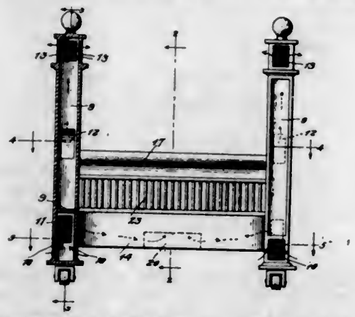
1,783,139. ALLOY. CHARLES PHILIPPOSSIAN, Geneva, Switzerland. Filed Aug. 14, 1929, Serial No. 385,969, and in Switzerland Nov. 3, 1928. 2 Claims. (Cl. 75—1.)

2. A white alloy comprising the following elements in the following proportions:

	Per cent
Cu	66.554
Ni	18.2
Zn	14.5
Al	0.190
Mg	0.190
Cd	0.098
Si	0.078
Mn	0.190

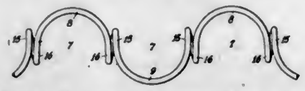
1,783,140. FIREPLACE AIR HEATER. MATTHEW S. QUINLIVEN, Los Angeles, Calif. Filed Jan. 9, 1930. Serial No. 419,617. 3 Claims. (Cl. 126—121.)

1. A fireplace air heater comprising two hollow vertical front posts each having a relatively low hot air inlet and a comparatively high hot air outlet, a front horizontal cool air receiving flue extending from one of said posts to the other, a hollow rear wall behind said front flue, a front-to-front flue extending between and communicating with said front flue and said rear wall, two hollow end walls secured to and communicating with said rear wall, the front portions of said end walls being secured to said posts and communicating with said rear wall, the front portions of said end walls being secured to said



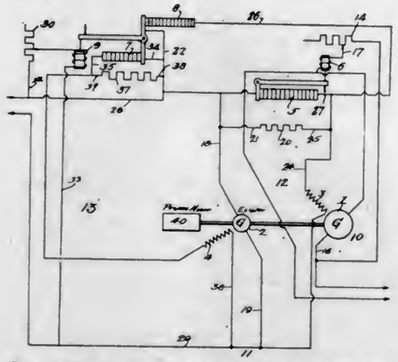
communicating with said hot air inlets thereof, and a grate extending between the lower portions of said back wall and said front flue.

1,783,141. CAGE FOR BALL BEARINGS. CHARLES LYON RUSSELL, Rahway, N. J., assignor to The Hess-Bright Manufacturing Company, Philadelphia, Pa., a Corporation of Delaware. Filed Feb. 27, 1929. Serial No. 343,012. 7 Claims. (Cl. 308—201.)



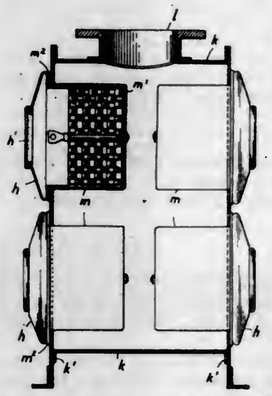
1. A ball cage for bearings, comprising a single wire bent into pocket forming loops opening alternately from opposite sides, the wire between each two adjacent loops being bent into a helix, each two adjacent helices being capable of retaining a ball in the appurtenant pocket.

1,783,142. LOAD-REGULATING MEANS. CLINTON SAYRES and DONALD C. PEABODY, Philadelphia, Pa., assignors to The J. G. Brill Company, a Corporation of Pennsylvania. Filed Sept. 2, 1927. Serial No. 217,294. 5 Claims. (Cl. 290—40.)



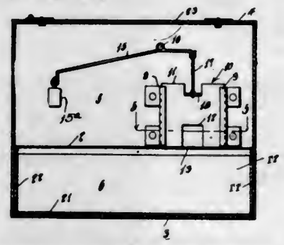
5. In a prime mover dynamo plant, a prime mover, a main generator including a field circuit and an armature circuit, an auxiliary generator including a field circuit and an armature circuit, said generators being driven by the prime mover, said auxiliary generator supplying field current to the main generator, means for maintaining a constant output voltage on the auxiliary generator, opposed variable resistances in the field circuit of the main generator, and electro-magnetic means responsive to speed fluctuations of the prime mover for varying one of said resistances inversely and the other of said resistances directly as said speed varies.

1,783,143. FILTER DEVICE. ALBERT SCHREMPP, Dusseldorf, Germany. Filed Jan. 4, 1927, Serial No. 158,963, and in Germany Jan. 9, 1926. 5 Claims. (Cl. 183—69.)



5. A filtering apparatus, comprising a plurality of sets of superimposed filter elements, said elements having perforations with projecting ragged rims, the elements of each set being arranged in such a manner that the perforations of neighboring filter elements are located in staggered relation to each other, a casing for each set of filter elements, with an outwardly bent flange at one end and an inwardly bent flange at the other end, covers for the casings and a common frame structure for said casings.

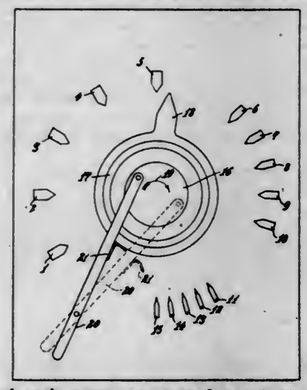
1,783,144. ANIMAL TRAP. JAMES E. SPILMAN, Wartrace, Tenn. Filed Jan. 2, 1930. Serial No. 418,045. 3 Claims. (Cl. 43—68.)



1. In an animal trap, a housing having an entrance opening in one of its walls, a horizontal partition in said housing dividing it into an entrance chamber and a captive chamber, said partition provided with an opening contiguous to the entrance opening, a trip member having an upright portion slidably mounted over said entrance opening and having an opening alined with said entrance opening, and a horizontal platform movable through the opening in the partition, and means to hold said trip member elevated with the platform alined with the partition, said upright portion providing a closure for the entrance opening when the platform is depressed by a victim.

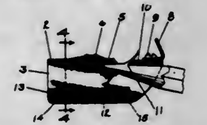
1,783,145. DEVICE FOR THROWING AT WILL PROJECTILES FROM AIRCRAFT. FRANCISCUS WILHELMUS VAN HEIJST, The Hague, Netherlands, assignor to Commanditaire Vennootschap: J. B. van Heijst & Zonen, The Hague, Netherlands. Filed Jan. 20, 1930, Serial No. 422,158, and in the Netherlands Feb. 13, 1929. 2 Claims. (Cl. 244—1.)

1. A device for throwing at will projectiles from aircraft, characterized in this, that the device comprises a number of groups of contacts being placed in a circle, said contacts being touched in succession by a contact-arm so that an electrical current circuit to the corresponding throwing device is actuated and whereby the



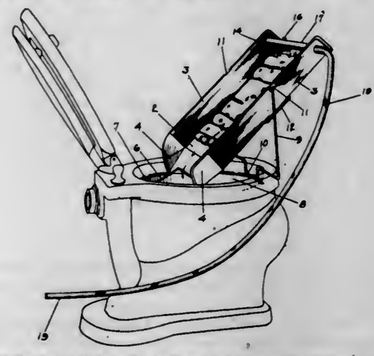
contacts of each group are spaced apart at equal distances, while the mutual distances of the contacts of one group differ from those of another group.

1,783,146. PENCIL SHARPENER. NEAL G. BARNARD, Minneapolis, Minn. Filed Apr. 9, 1928. Serial No. 268,761. 1 Claim. (Cl. 120—90.)



A pencil sharpener including a substantially U-shaped integral holder comprising spaced apart side walls having a top wall connecting them together, a knife blade attached to the upper wall, a flexible guide tongue also on the upper wall having its free end extending in a direction towards the knife blade and bent downwardly and positioned adjacent to the cutting edge of said blade, the free end of said tongue lying substantially in the medial plane of the blade, said tongue being bendable whereby it may be adjusted relatively to the knife edge to regulate the depth of the cut, and a thumb rest provided on said holder adjacent to said blade whereby the user may readily support the holder with the thumb while drawing a pencil through the sharpener to sharpen it.

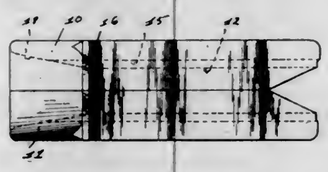
1,783,147. LAUNDRY APPARATUS. NEAL G. BARNARD, Minneapolis, Minn. Filed June 16, 1928. Serial No. 285,975. 3 Claims. (Cl. 68—11.)



3. A device of the class described, comprising a member including a bottom and spaced side walls, said walls di-

verging inwardly at one end of said member to reduce the width thereof and whereby one end of the member may be inserted into a closet bowl having an upper rolled edge, prongs secured to the reduced end portion of said member and adapted to be inserted under said rolled edge to retain one end of the member on the closet bowl, a support on said member for supporting the opposite end thereof, the lower portion of said support being adapted to engage the upper portion of said rolled edge, and a depending portion on said support projecting into the closet bowl to prevent disengagement of the support from said rolled edge.

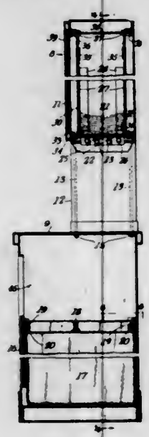
1,783,148. ROLLER-MILL GUIDE. MARVINE GORHAM, Buffalo, N. Y., assignor to Michigan Steel Casting Company, Detroit, Mich., a Corporation of Michigan. Filed May 7, 1928. Serial No. 275,934. 6 Claims. (Cl. 80—51.)



5. A rolling mill guide adapted to be subjected to the wear of highly heated bars and billets as they are being rolled, said guide having the guiding portions thereof composed of an alloy adapted to resist wear at elevated temperatures, said alloy being of approximately the following composition:

Nickel	32	to 38	%
Chromium	13	to 17	%
Carbon	0.35	to 0.65	%
Silicon	0.9	to 1.4	%
Manganese	0.85	to 0.95	%
Iron			Balance.

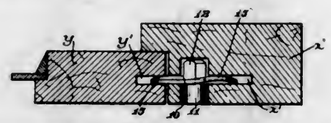
1,783,149. TOWEL CABINET. FRED JANTZEN, Bronx, N. Y. Filed Feb. 21, 1930. Serial No. 430,158. 10 Claims. (Cl. 312—60.)



4. A towel rack, comprising guides for the edges of a stack of towels, said guides having wavy surfaces engaged with the edges of the stack to segregate the towels and means for holding said guides yieldingly engaged with the edges of the stack.

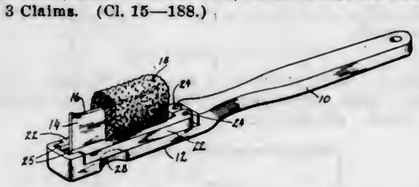
7. A towel cabinet having a vanity shelf top, said cabinet having an opening in the front of the same beneath said vanity shelf top and provided with a door below said opening giving full access to the interior of the cabinet, and a soiled towel bag removably supported in the cabinet behind said door and with the mouth of the same in opened relation at approximately the top of the door to receive soiled towels thrown through the front opening over the top of the door and in position disclosing through said opening the extent to which it is filled, without opening the door and being fully exposed and readily removable from the cabinet upon opening the door.

1,783,150. FASTENER FOR DOOR PANELS. RUPERT G. JEFFERY, Nashua, N. H. Filed Mar. 1, 1930. Serial No. 432,440. 2 Claims. (Cl. 292—202.)



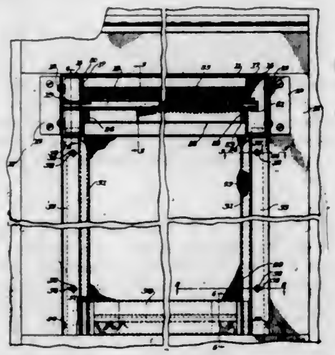
1. A fastener for engaging recesses in frame members, said fastener comprising a bushing, a stud mounted in said bushing and having a non-circular portion, and an elongated blade having its central portion mounted on the non-circular portion of the stud, the ends of the blade being twisted in opposite directions out of its plane.

1,783,151. TOOTHBRUSH. CLARENCE M. MCARTHUR, Detroit, Mich. Filed Nov. 9, 1929. Serial No. 406,098. 3 Claims. (Cl. 15—188.)



1. A tooth brush comprising a handle having a brush holding head provided with a lip portion, an arm pivoted to the head on each side of the lip portion and adapted to be detachably engaged with said head, a brush element folded over said lip portion and adapted to be held in place by said arms.

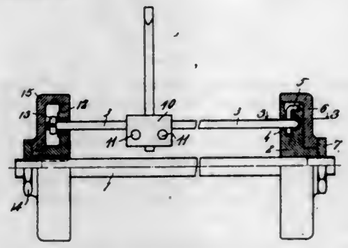
1,783,152. ROLL-SCREEN CONSTRUCTION. NILE OLDHAM, Chicago, Ill. Filed Apr. 8, 1927. Serial No. 181,909. 5 Claims. (Cl. 156—39.)



2. In a screen construction, an integral transverse sheet metal member having portions forming a longitudinal

groove, the open side of the groove being narrower than a lower portion of the groove, said portions adapted to grip a screen secured to said member by having a reversely bent portion of the screen extending within the lower portion of the groove, said member having other portions forming a hollow body member open at the ends.

1,783,153. TILLER. GEORG PENEFF, Berlin-Wilmersdorf, Germany, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany, a Corporation of Germany. Filed Sept. 20, 1928, Serial No. 307,141, and in Germany Aug. 15, 1927. 21 Claims. (Cl. 97—216.)



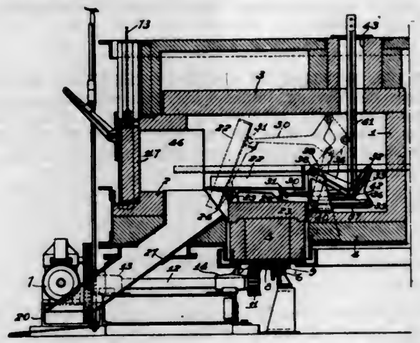
1. A rotary tiller, comprising a driven shaft, torsion spring bars mounted on said shaft and tools connected with said torsion bars.

1,783,154. COLORING MATERIAL FOR OLEOMARGARINE, BUTTER, AND THE LIKE. JACOB SCHAUB, Westfield, N. J., assignor to Best Foods, Inc., New York, N. Y., a Corporation of New Jersey. Filed July 6, 1925. Serial No. 41,872. 5 Claims. (Cl. 99—13.)

1. A dry coloring material for oleomargarine and the like consisting of water soluble granules coated and impregnated with a dry coloring matter.

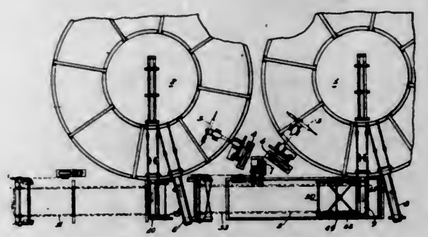
3. The method of making a coloring material for oleomargarine and butter which consists in dissolving a dyestuff in a volatile solvent carrier, absorbing the colored solution with porous material and evaporating off the solvent.

1,783,155. ELECTRIC HEATING FURNACE. RANDAL E. TALLEY, Irwin, Pa., assignor to George J. Hagan Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 2, 1927. Serial No. 195,988. 15 Claims. (Cl. 263—7.)



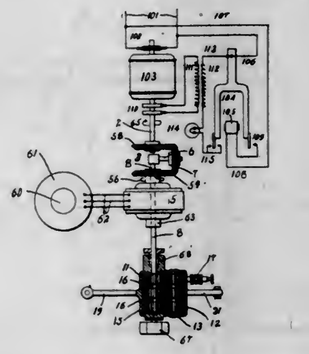
12. In a furnace the combination with a pivotally mounted hearth and means for tilting said hearth, of cam actuated means for causing a jarring of the hearth during the tilting action.

1,783,156. HEAT-TREATING APPARATUS. RANDAL E. TALLEY, Irwin, Pa., assignor to George J. Hagan Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 11, 1928, Serial No. 276,922. Renewed June 13, 1930. 9 Claims. (Cl. 263—7.)



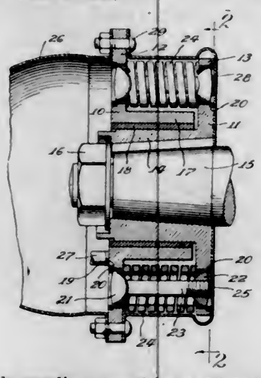
1. Heat treating apparatus comprising in combination a rotary hearth furnace and a conveyor mechanism for conducting material thereto, means for automatically charging and discharging the material to and from the hearth of said furnace and means actuated by the material carried on said conveyor for controlling said charging means.

1,783,157. SYSTEM OF SPEED GOVERNING FOR PRIME MOVERS. HARVEY BIRCHARD TAYLOR, Philadelphia, Pa. Filed May 16, 1919, Serial No. 297,552. Renewed Jan. 19, 1929. 32 Claims. (Cl. 175—355.)



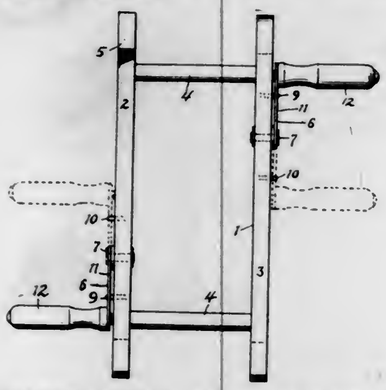
9. A governing system for a gate controlled hydraulic turbine driving an alternating current generator, comprising a gate operating fluid actuated servo-motor having a fluid distributing valve and a pilot valve therefor, and means for effecting actuation of said distributing valve in accordance with a difference of frequency between the generator current and a standard value of frequency and to adjust the power of the prime mover until its speed is brought back to that corresponding to the standard value of frequency whereby the speed of the prime mover and its generator may be brought back to normal or to any predetermined variation from normal for all positions of the turbine gates, said means including electrical instrumentalities inherently responsive to frequency for determining said standard value, primary restoring mechanism operative directly on said distributing valve upon movements of said servo-motor, and secondary restoring mechanism operative on said pilot valve to effect further restoring action on said distributing valve.

1,783,158. FLEXIBLE COUPLING. GEORGE F. ECKART, Chicago, Ill., assignor to George A. Chritton, Chicago, Ill., trustee. Filed July 5, 1929. Serial No. 376,012. 5 Claims. (Cl. 64—96.)



1. A flexible coupling comprising a driving and a driven member having a common axis and each having an opposing flange, means for guiding one member with respect to the other means for flexible connecting said flanges, and a series of helical springs having their axes disposed at intervals in a circle about the axis of said members, said springs lying between the members and tending to keep said members separated.

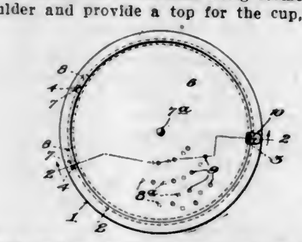
1,783,159. REEL. JOHN B. PALMER, Fort Wayne, Ind., assignor of one-half to Albert F. Palmer, Fort Wayne, Ind. Filed Jan. 14, 1929. Serial No. 332,293. 4 Claims. (Cl. 242—96.)



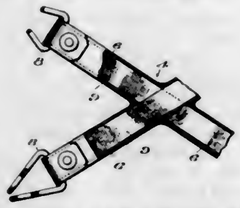
1. In a reeling appliance, a frame having spaced side bars and transversely disposed connecting members; a crank in pivotal connection with each of said side bars, the pivot of one crank being spaced from the axis of said frame, the pivot for one of said cranks being located at a point opposite that of the other crank respecting said axis, and a pair of latch pins projecting from each of said side bars, oppositely disposed respecting the pivot upon which the crank is mounted, the arm of said crank being adapted to have engagement with said pins selectively according to the adjusted position of the crank.

1,783,160. LOOSE-POWDER CONTAINER. WINFRED T. PARKIN, Providence, R. I., assignor to Theodore W. Foster & Brother Co., Providence, R. I. Filed Apr. 4, 1929. Serial No. 352,509. 8 Claims. (Cl. 221—64.)

1. In a loose powder container, a cup having a rim with a shoulder located above its bottom, and having a pair of spaced slots and a third slot opposite to the pair, all of the slots being located in the rim of the cup, and above the shoulder, a pair of pivotally connected disks having perforations formed to register in one position, each of said disks having spaced radial ears which extend through the pair of slots, the lower disk being formed to seat on the shoulder and provide a top for the cup, and a combined latch and operating member for the upper disk having a part formed to be snapped into the third slot, the ears of the lower disk engaging the ends of the pair of slots to hold said disk against rotation and the ears and member of the upper disk being of less width than the length of the respective slots to allow of movement of the last named ears and member in the slots thereby to rotate the upper disk.



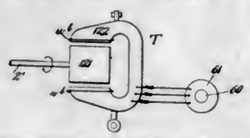
1,783,161. TRACTION DEVICE FOR TIRES. CARSON R. STEWART, Akron, Ohio, assignor to United States Chain & Forging Company, Pittsburgh, Pa., a Corporation of Delaware. Filed June 5, 1922. Serial No. 565,898. 18 Claims. (Cl. 152—14.)



1. A tire armor comprising, the combination of endless link chains adapted to be disposed upon opposite sides of the tire, and a plurality of elements of resilient material being constructed to span the tire, each element yieldable radially of the tire but being incapable of stretching transversely of the tire and being formed with arms arranged in cruciform relation and looped at their extremities to adapt them for attachment to said chains.

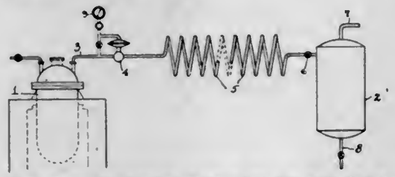
13. An anti-skid device comprising a strap of flexible material having an eye portion adjacent to each end and inserts of relatively great tensile strength surrounding said eye portions.

1,783,162. SYSTEM OF SPEED GOVERNING. HARVEY BIRCHARD TAYLOR, Philadelphia, Pa. Original application filed May 16, 1919, Serial No. 297,552. Divided and this application filed Apr. 5, 1920. Serial No. 371,349. Renewed Jan. 19, 1929. 18 Claims. (Cl. 175—355.)



9. A turbine regulating system of the type wherein the turbine gates are controlled from a speed responsive device whose operation is limited from the turbine gates by a restoring mechanism, characterized by the fact that the speed responsive device comprises two inductively related windings, means for supplying current to one of said windings having a characteristic which varies with the speed of the turbine, means for supplying to the other of said windings current having a fixed characteristic corresponding to a speed standard, and means for producing an operating force through the interaction of the currents in said windings.

1,783,163. PRESSURE-RELIEVING METHOD AND APPARATUS FOR AUTOCLAVES AND THE LIKE. THOMAS GRISWOLD, Jr., Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Sept. 26, 1925. Serial No. 58,804. 11 Claims. (Cl. 137—111.)



11. In pressure relieving apparatus for autoclaves and the like, the combination of a branched discharge line, a control valve in each of the branches of said line, two stop valves in each such branch, one on each side of the corresponding control valve, a header connecting such branches beyond such valves, a duct leading from said header and including a portion arranged and constructed to interpose resistance to the flow of the fluid therethrough, whereby a substantial portion of the drop in pressure is absorbed, and a plurality of taps connected with said duct at different distances from said header.

1,783,164. HEATING DEVICE FOR RAILROAD SWITCHES. HENRY MILLER and BENJAMIN B. BETTS, St. Louis, Mo.; said Betts assignor to said Miller. Filed Apr. 18, 1928. Serial No. 270,982. 1 Claim. (Cl. 158—91.)

A switch heating device comprising a receptacle having communicating compartments, one being a reservoir for liquid fuel and the other constructed as a burner, a sliable cover closing top openings of both compartments, the length of which does not substantially exceed the length of the fuel reservoir, and a removable under-cover over that part of the reservoir exposed when the sliding cover is moved to a position covering the burner.

1,783,165. MIXED ESTERS OF COLOPHONY AND RELATED SUBSTANCES. HERMAN ALEXANDER BRUSON, Philadelphia, Pa., assignor to The Resinous Products & Chemical Company, a Corporation of Delaware. Filed Oct. 8, 1928. Serial No. 311,255. 20 Claims. (Cl. 260—8.)

1. A composition of matter comprising a mixed ester of an acidic gum with a polyhydric alcohol and a straight chain aliphatic acid of the formula

$$HOOC—(CH_2)_n—COOH$$

where n is a whole number between 4 and 8 inclusive.

8. A composition of matter comprising a mixed ester of colophony, glycerol, and sebacic acid.

13. A composition of matter comprisng a mixed ester of an acidic gum, diethylene glycol, and sebacic acid.

1,783,166. RESIN PLASTICIZER. HERMAN ALEXANDER BRUSON, Philadelphia, Pa., assignor to The Resinous Products & Chemical Company, a Corporation of Delaware. Filed July 5, 1929. Serial No. 376,288. 8 Claims. (Cl. 106—22.)

1. Method of plasticizing phenol aldehyde resins which consists in incorporating therewith a condensation product of a polyhydric alcohol and a member of the group consisting of pimelic, suberic, azelaic and sebacic acids.

1,783,167. PREPARATION OF RUBBERLIKE MASSES. HERMAN ALEXANDER BRUSON, Germantown, Pa., assignor to The Resinous Products & Chemical Company, a Corporation of Delaware. Filed July 8, 1930. Serial No. 466,590. 18 Claims. (Cl. 260—8.)

1. A composition of matter comprising the reaction product of castor oil, glycerol, and sebacic acid.

6. A composition of matter comprising the reaction product of castor oil, a polyhydric alcohol having over two hydroxyl groups, and an aliphatic dibasic acid having the general formula $HOOC—(CH_2)_n—COOH$ where n is a whole number between 4 and 8 inclusive.

18. A composition of matter comprising the reaction product of castor oil, a polyhydric alcohol having over two hydroxyl groups, and an aliphatic dibasic acid having the general formula

$$(CH_2)_n\begin{cases}COOH\\COOH\end{cases}$$

where n is a whole number between 4 and 8 inclusive, and a dihydric alcohol.

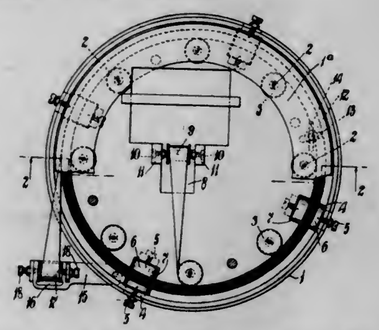
1,783,168. CONDENSATION PRODUCT AND PROCESS OF PREPARING SAME. HERMAN ALEXANDER BRUSON, Germantown, Pa., assignor to The Resinous Products & Chemical Company, a Corporation of Delaware. Filed Sept. 25, 1930. Serial No. 484,475. 12 Claims. (Cl. 260—8.)

12. A process for preparing a resinous mass which comprises heating to reaction temperature an acid of the general formula

$$(CH_2)_n\begin{cases}COOH\\COOH\end{cases}$$

where n is a whole number between 4 and 8 inclusive, an aliphatic monobasic acid derived from the hydrolysis of a natural fatty oil glyceride, a polyhydric alcohol and unhydrolyzed fatty oil glycerides.

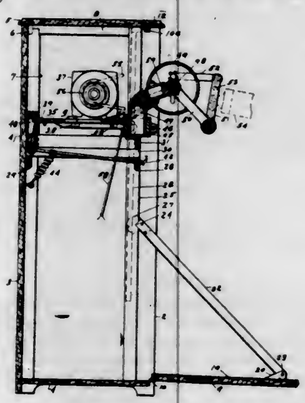
1,783,169. MEANS FOR WINDING ENDLESS CINEMATOGRAPH FILMS AND THE LIKE. MARTIN HARPER, Strand, London, England. Filed Nov. 2, 1928, Serial No. 316,833, and in Great Britain July 9, 1928. 4 Claims. (Cl. 88—187.)



1. Means for winding endless cinematograph films and the like comprising a film carrying drum, two plates spaced

apart by means of rollers arranged near the periphery and at right angles to the plates, centres for such rollers mounted in the plates, an aperture in the lower plate, a roller mounted parallel with the lower plate, and with the lowest part of its surface in the plane of the plate, centres for said roller mounted on said lower plate, a tangential extension to said lower plate, an aperture in said extension, a second roller mounted parallel with the said extension and in said aperture, centres for said second roller mounted on said extension, and means for adjustably attaching the film-carrying drum or reel in a horizontal position to a projection apparatus.

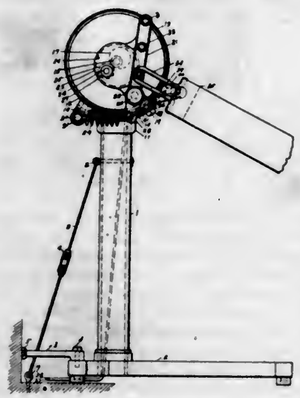
1,783,170. MASSAGING-MACHINE CABINET. FRANK W. KNOTT, Detroit, Mich., assignor to Knott & Garllus Company, Detroit, Mich., a Corporation of Michigan. Filed May 28, 1929. Serial No. 366,544. 5 Claims. (Cl. 312—21.)



1. A portable cabinet adapted for supporting and enclosing a massaging machine, comprising a rigid cabinet enclosure, formed with one open side, a panel door pivotally mounted within said side opening, a support member pivotally mounted within the cabinet enclosure designed to receive and support a massaging machine thereon, said support member being capable of being rotated from a horizontal to a vertical position about its pivot support within the cabinet enclosure, and means mounted within the cabinet for rigidly retaining the pivoted support member and attached massaging machine in its extreme pre-determined positions therein.

1,783,171. ELECTRIC MASSAGING MACHINE. FRANK W. KNOTT, Detroit, Mich., assignor to Knott & Garllus Company, Detroit, Mich., a Corporation of Michigan. Filed June 12, 1929. Serial No. 370,437. 3 Claims. (Cl. 128—63.)

3. A massaging machine adapted for massaging the body through an attached flexible applicator belt, comprising a rigid supporting frame having a slow speed motor mounted therein and securely attached thereto, means mounted on said slow speed motor for connecting the same within an electric power circuit, said motor being provided with an armature shaft extending beyond the motor bearings at each end, eccentric cams fixedly mounted on the outer opposite ends of said armature shaft positioned diametrically opposite each other, applicator arms pivotally mounted on opposite sides of the supporting frame positioned adjacent to the respective cams and in approximate alignment therewith, said applicator arms being provided with a cam cup formed on one side thereof, said cam cup being of a size and positioned to enclose the respective eccentric cams and allow the cams to rotate freely therein, a contact roller mounted within each of the cam cups positioned to engage the cam surface on the side opposite the applicator arms forming a contact therewith, spring means mounted on the said applicator arms in a manner for holding the contact rollers in con-



tinuous contact with the eccentric cams during the continuous rotation of the motor armature for producing a continuous alternate oscillating movement of the applicator arms, and a series of applicator attaching buttons mounted on the applicator arms for attaching the ends of a flexible applicator belt thereto at various positions along the arms for transmitting the alternate oscillating movement of the arms directly into the attached applicator belt.

1,783,172. ATTACHMENT FOR CALCULATING MACHINES. FRANK M. SMITH, West Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a Corporation of Delaware. Filed Mar. 25, 1930. Serial No. 438,806. 3 Claims. (Cl. 235—131.)



3. In a calculating machine having a shaft provided with a longitudinal series of spaced gears, and a coiled check spring parallel to said shaft and engaging the teeth of said gears; means for preventing crystallization of said spring including means for rotatably supporting and holding said spring extended longitudinally having end supports and swivel pins seated in said supports and engaging the ends of the spring.

OFFICIAL GAZETTE

OF THE

UNITED STATES PATENT OFFICE

VOLUME 401

DECEMBER

1930

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1931

R608
13
R401 Dec, 1930

Q10 Inv. 34

CONTENTS

	Page
DECISIONS OF THE COMMISSIONER OF PATENTS, December 2, 9, 16, 23, 30	3, 235, 469, 719, 919
TRADE-MARKS PUBLISHED AND REGISTERED, December 2, 9, 16, 23, 30	9, 241, 475, 727, 927
LABELS AND PRINTS REGISTERED, December 2, 9, 16, 23, 30	53, 273, 511, 759, 966
REISSUES, December 2, 9, 16, 23, 30	55, 275, 513, 761, 969
DESIGNS, December 2, 9, 16, 23, 30	57, 276, 515, 762, 970
PATENTS, December 2, 9, 16, 23, 30	72, 290, 533, 774, 979

ANNOUNCEMENTS

	Page
ADVERSE DECISIONS IN INTERFERENCE	8, 467, 717
APPLICATIONS—Condition of pending	2, 234, 468, 718, 918
ATTORNEYS—Disbarred—Denied access to files	926
CLASSIFICATION OF INVENTIONS—Changes in—*Order No. 3,170*	473
Order No. 3,173	717
DISCLAIMERS—Boggs, Charles R	717
Brach, Leon S	473
Cooke, Maurice B	473
Fischer, Heinrich	233
Gilt, Carl M	233
Lee, Fred L	717
Mortimer, Louis A	472
Ranger, Richard Howland	473
Thorne, Maurice A	473
DRAWINGS—Correction of Rule 72	467
Instructions relative to ordering	926
Marking for identification—Rules 38 and 52	467
EXAMINERS' LETTERS AND AMENDMENTS	926
FEES—Notice regarding payment of	926
INTERFERENCE DEFINED—Rule 93	467
MANUSCRIPT COPIES—Instruction relating to ordering	926
PATENT SUITS	7, 238, 471, 725, 924
PATENTS—List of adjudicated	1, 240, 917
TRADE-MARKS—Canceled	1
Notice of cancellation	726, 917

TABLE OF CASES REPORTED

	Page
Adams et al. *v.* Galion Iron Works & Mfg. Co	722
[c] Alemite Mfg. Corp. et al. *v.* Rogers Products Co., Inc.	921
* Baltimore Paint & Color Works *v.* Bennett Glass & Paint Company	237
[c] Blazek *v.* X-L Refrigerating Co. et al	724
* Coley. In re	4
[b] Dixon. Ex parte	919
* Dunn. In re	469
Jenkins. Ex parte	3
Kelvinator Corporation. Ex parte	469
* Lektophone Corporation *v.* The Rola Company and Miller Brothers Company *v.* Lektophone Corporation	920
* Maatschappij tot Exploitatie Van Rademaker's Koninklijke Cacao & Chocolade Fabrieken *v.* Rademaker	720
Merica and Kayes. Ex parte	919
* Postum Cereal Company *v.* Enzo Jel Company	235
* Powell. In re	470
Root. Ex parte	719
Shultz *v.* Dunham. Ex parte	719
* Stern. In re	235
[c] Voices, Inc. *v.* Up-to-Date Mfg. Co., Inc	923

[Decisions of the Board of Appeals are indicated by the letter ([b]), of the Circuit Court of Appeals by the letter ([c]), of the Court of Customs and Patent Appeals by a (*) star, and of the Supreme Court of the United States by the letter ([s]).]

ERRATA

Page 1112, second column, strike out 1,787,074. Disk Wheel Mounting. J. Harold, and insert instead 1,787,070. Gear Puller. Robert B. Hainsworth.

338571

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Bismuth preparation. 277,960; Dec. 2; Serial No. 303,560; published Sept. 2, 1930. Class 6.

Almotone Chemical Company. (See Fagras, Anastasios G.)

Albatross Quilting, Inc., Cicero, Ill. Quilts and quiltings, pads, etc. 278,033; Dec. 2; Serial No. 296,941; published Sept. 16, 1930. Class 42.

Alexander, Clara C., doing business as C. C. Alexander Mfg. Co., Prince George, British Columbia, Canada. Egg-preserving composition. 277,917; Dec. 2; Serial No. 301,770; published Sept. 23, 1930. Class 6.

Allen & Smith Company, Inc., Richmond, Va. Candy, salted peanuts, and peanut butter. 277,966; Dec. 2; Serial No. 302,846; published Sept. 2, 1930. Class 46.

Allied Products. (See Schmidt, Fred E.)

Alma Manufacturing Company of Baltimore. (See American Steel Buckle Co.)

American Dyewood Company, New York, N. Y. Fat liquor for use on furs and hides. 278,052; Dec. 2; Serial No. 303,362; published Aug. 26, 1930. Class 6.

American Dyewood Company, New York, N. Y. Vegetable dye for furs. 278,053; Dec. 2; Serial No. 303,363; published Aug. 26, 1930. Class 6.

American National Fox and Fur Breeders Association, Minneapolis, Minn. Pelts. 277,914; Dec. 2; Serial No. 302,522; published Sept. 16, 1930. Class 1.

American Paper Goods Company, The, Kensington, Conn. Paper, folded or unfolded, envelopes, photograph inclosures. 80,968; renewed Feb. 21, 1931.

American Propeller Company, The, Baltimore, Md. Electric fans. 277,882; Dec. 2; Serial No. 303,243; published Sept. 16, 1930. Class 21.

American Steel Buckle Co., to Alma Manufacturing Company of Baltimore, Baltimore, Md., successor. Buckles, buttons, and clasps. 35,491; renewed Nov. 27, 1930.

Apex Products Corporation, Chicago, Ill. Deodorizer. 278,046; Dec. 2; Serial No. 303,148; published Sept. 9, 1930. Class 6.

Arlington Chemical Company, The. (See Palisade Manufacturing Co., The, assignor.)

Atlantic Mills, The, Olneyville and Providence, R. I., and Stottville, N. Y. Fabric in the piece. 278,069; Dec. 2; Serial No. 304,306; published Sept. 16, 1930. Class 42.

Audline Company. (See Paquin, William T.)

Auto-Matic Seat Cover Corporation, New York, N. Y. Automobile slip covers. 278,001; Dec. 2; Serial No. 295,246; published Sept. 16, 1930. Class 19.

B. D. Medicine Co. (See Dixon, B. M.)

Bach Laboratories, Inc., Newark, N. J. Liquid general tonic. 277,944; Dec. 2; Serial No. 302,848; published Sept. 9, 1930. Class 6.

Bakers' Help r Co., Chicago, Ill. Magazine. 278,024; Dec. 2; Serial No. 298,925; published Sept. 23, 1930. Class 38.

Baltimore Drug Company, Incorporated, The, Baltimore, Md. Aspirin, boric acid, bay rum, etc. 278,086; Dec. 2; Serial No. 292,573; published Sept. 16, 1930. Class 6.

Bartel, Adam H., Company, Richmond, Ind. Men's, ladies', and children's underwear. 278,117; Dec. 2. Class 39.

Beardmore & Co., Toronto, Ontario, Canada. Leather. 277,924; Dec. 2; Serial No. 304,091; published Sept. 16, 1930. Class 1.

Beaurline, Francis J., doing business as Beaurline Co., St. Paul, Minn. Lip tint. 278,002; Dec. 2; Serial No. 295,147; published Sept. 2, 1930. Class 6.

Beech-Nut Packing Company, Canajoharie, N. Y. Confectionery. 278,003; Dec. 2; Serial No. 294,952; published Sept. 16, 1930. Class 46.

Bendel, Henri, Inc., New York, N. Y. Perfumes, bath salts, etc. 278,116; Dec. 2. Class 6.

Bendix Service Corporation, South Bend, Ind. Rivets. 277,891; Dec. 2; Serial No. 304,270; published Sept. 23, 1930. Class 13.

Berger, Walter J., doing business as California Confections Company, San Francisco, Calif. Raisins. 277,976; Dec. 2; Serial No. 300,046; published Sept. 23, 1930. Class 46.

Bessler, Frank E., assignor to The Bessler Disappearing Stairway Company, Akron, Ohio. Movable stairway. 80,825; renewed Feb. 7, 1931.

Bluich, Adolph, Inc., San Francisco, Calif. Fishing lines, hooks, reels, etc. 278,067; Dec. 2; Serial No. 304,532; published Sept. 23, 1930. Class 22.

Bliss Brothers Company, Attleboro, Mass. Lockets. 79,811; renewed Oct. 11, 1930.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics. 278,073; Dec. 2; Serial No. 303,992; published Sept. 9, 1930. Class 42.

Board of Trustees of the Leland Stanford Junior University, The, doing business as Stanford University, San Francisco, Calif. Pharmaceutical agent. 278,047; Dec. 2; Serial No. 303,153; published Aug. 26, 1930. Class 6.

Bob, H. D., Company Inc., New York, N. Y. Windbreakers. 278,123; Dec. 2. Class 39.

Bogey Practice Ball Company. (See Fiedler, Max.)

Böhme, H. Th., A. G., Chemnitz, Germany. Chemical dye aids. 277,937; Dec. 2; Serial No. 303,626; published Sept. 16, 1930. Class 6.

Bonneau, L. P., doing business as The Bonneau Beauty Shop, Utica, N. Y. Permanent-wave solution. 278,041; Dec. 2; Serial No. 302,766; published Sept. 2, 1930. Class 6.

Booth Bottling Company, Philadelphia, Pa. Maltless beverages. 278,030; Dec. 2; Serial No. 297,515; published Sept. 23, 1930. Class 45.

Boott Mills, Lowell, Mass. Scrim in the piece and made up into curtains. 277,888; Dec. 2; Serial No. 301,562; published Aug. 19, 1930. Class 42.

Brill's, Max, Sons, Inc., New York, N. Y. Ladies' hand bags. 277,909; Dec. 2; 303,738; published Sept. 16, 1930. Class 3.

Browning & Baines, Inc., Washington, D. C. Roasted and granulated coffee. 277,863; Dec. 2; Serial No. 303,948; published Sept. 16, 1930. Class 46.

Buenger Pharmacal Company. (See E. M. Pharmacal Company, assignor.)

Busch, G. Walton, & Sons, New York, N. Y. Metal drains. 277,907; Dec. 2; Serial No. 303,686; published Sept. 23, 1930. Class 13.

Butterfield, Clarence J., Van Nuys, Calif. Goods made of leather or fabric or combinations thereof. 277,921–3; Dec. 2; Serial Nos. 304,230–2; published Sept. 16, 1930. Class 3.

Byrne, Frank H., doing business as Byrne Products Co., New York, N. Y. Paint product. 278,103; Dec. 2; Serial No. 300,167; published Sept. 16, 1930. Class 16.

Calco Chemical Company, Inc., The, Bound Brook, N. J. Medicinal preparation. 277,930-3; Dec. 2; Serial Nos. 303,994-7; published Sept. 9, 1930. Class 6.

Calco Chemical Company, Inc., The, Bound Brook, N. J. Medicinal preparation. 277,934; Dec. 2; Serial No. 303,993; published Sept. 16, 1930. Class 6.

Caldwell Flour Mills, The. (See Colorado Milling & Elevator Co. The.)

California Confections Company. (See Berger, Walter J.)

California Medicinal Wine Co., Los Angeles, Calif. Medicinal and pharmaceutical preparations. 278,060; Dec. 2; Serial No. 301,572; published Sept. 9, 1930. Class 6.

Carboni, Giulio M., doing business as G. M. Carboni & Co., Rochester, N. Y. Medicinal preparations. 277,946; Dec. 2; Serial No. 302,625; published Sept. 9, 1930. Class 6.

Carey Salt Co., Hutchinson, Kans. Salt. 278,007; Dec. 2; Serial No. 294,572; published Sept. 16, 1930. Class 6.

Cerruti, E., New York, N. Y. Cheese. 277,913; Dec. 2; Serial No. 302,852; published Sept. 16, 1930. Class 46.

Chemische Fabrik Joh. A. Benckiser G. m. b. H., Ludwigshafen-on-the-Rhine, Germany. Cheese-dissolving salt. 278,043; Dec. 2; Serial No. 302,992; published Sept. 9, 1930. Class 6.

Chenango Knitting Company, Sherburne, N. Y. Hosiery. 278,131; Dec. 2. Class 39.

Cheney Brothers, South Manchester, Conn. Fabrics in the piece. 278,076; Dec. 2; Serial No. 303,596; published Sept. 23, 1930. Class 42.

Chicago Candy Novelties Corp., Chicago, Ill. Confectionery. 277,974; Dec. 2; Serial No. 300,333; published Sept. 23, 1930. Class 46.

Clark, Robert E., doing business as R. E. Clark Milling Company, Chillicothe, Ohio. Wheat flour. 277,910; Dec. 2; Serial No. 303,628; published Sept. 16, 1930. Class 46.

Clarke Sanding Machine Company, Chicago, Ill. Domestic electric vacuum cleaners. 278,108; Dec. 2. Class 21.

Cleveland Heater Company, The, Cleveland, Ohio. Water heaters and their structural parts. 277,982; Dec. 2; Serial No. 299,554; published Sept. 16, 1930. Class 34.

Cleveland Heater Company, The, Cleveland, Ohio. Water heaters, heating systems, central house-heating units, etc. 277,996; Dec. 2; Serial No. 301,843; published Sept. 16, 1930. Class 34.

Cleveland Heater Company, The, Cleveland, Ohio. Water heaters, heating systems, central house-heating units, etc. 278,018–20; Dec. 2; Serial Nos. 299,373–5; published Sept. 16, 1930. Class 34.

Clifford, Kathleen, Ltd., Beverly Hills, Calif. Cleansing creams, emollients, skin balms, etc. 277,998; Dec. 2; Serial No. 295,833; published Sept. 23, 1930. Class 6.

Coated Paper Products Company, The, Minerva, Ohio. Wax-coated paper. 277,898; Dec. 2; Serial No. 304,039; published Sept. 16, 1930. Class 37.

Colgate-Palmolive-Peet Company, Chicago, Ill. Dental cream. 278,048; Dec. 2; Serial No. 303,161; published Sept. 9, 1930. Class 6.

Colgate-Palmolive-Peet Company, Chicago, Ill. Talc powder. 278,049; Dec. 2; Serial No. 303,162; published Aug. 26, 1930. Class 6.

Colorado Fuel and Iron Company, The, Denver, Colo. Wire fence. 278,130; Dec. 2. Class 13.

Colorado Milling & Elevator Co., The, Denver, Colo., doing business as The Caldwell Flour Mills, Caldwell, Idaho. Self-rising flour. 278,011; Dec. 2; Serial No. 300,927; published Sept. 16, 1930. Class 46.

Columbia Radio Corporation, Chicago, Ill. Radio receiving sets, vacuum or electron tubes, and radiospeakers. 277,890; Dec. 2; Serial No. 304,315; published Sept. 16, 1930. Class 21.

Comet's California Orange Drink Co., Inc., Los Angeles, Calif. Maltless beverage and syrup for making same. 278,075; Dec. 2; Serial No. 303,879; published Sept. 23, 1930. Class 45.

Compact Perfume Inc., New York, N. Y. Perfumes. 278,044; Dec. 2; Serial No. 302,995; published Aug. 26, 1930. Class 6.

Consolidated Pecan Sales Company, Albany, Ga. Nuts. 277,876; Dec. 2; Serial No. 303,047; published Sept. 16, 1930. Class 46.

Consolidated Tea Company, Inc., New York, N. Y. Candy. 277,875; Dec. 2; Serial No. 303,365; published Sept. 16, 1930. Class 46.

Cook, Emma K., St. Louis, Mo. Electric-fan protectors. 278,109; Dec. 2. Class 21.

Curtis Publishing Company, The. (See Stuyvesant Company, The, assignor.)

Curtis Publishing Company, by change of name to The Curtis Publishing Company, Philadelphia, Pa. Illustrated weekly magazine. 81,055; renewed Feb. 28, 1931.

Curtiss Candy Company, The, Chicago, Ill. Candy. 277,872; Dec. 2; Serial No. 303,631; published Sept. 16, 1930. Class 46.

Dallas Co., The, Des Moines, Iowa. Women's and misses' ready-made dresses. 278,120; Dec. 2. Class 39.

Dan Valley Mills, The, Danville, Va. Wheat flour. 277,973; Dec. 2; Serial No. 300,340; published Sept. 23, 1930. Class 46.

Daum, Rogers, Spritzer Co. (See Townsend, E. M., assignor.)

Dayton Spice Mills Company, The, Dayton, Ohio. Roasted coffee. 79,040; renewed Aug. 2, 1930.

Delta Company, Inc., North Chicago, Ill. Automatic stokers, their parts and attachments. 277,991; Dec. 2; Serial No. 303,802; published Sept. 23, 1930. Class 34.

Dempster Mill Manufacturing Company, Beatrice, Nebr. Cistern rings, cistern covers, well castings, and fixed hog waterers. 277,881; Dec. 2; Serial No. 303,468; published Sept. 16, 1930. Class 13.

Dempster Mill Manufacturing Company, Beatrice, Nebr. Windmills and parts thereof, well-drilling machinery, etc. 278,054; Dec. 2; Serial No. 303,467; published Sept. 23, 1930. Class 23.

Denny, Hilborn & Rosenbach (The White Company), assignor to Denny, Hilborn & Rosenbach Inc., Philadelphia, Pa. Painters' materials. 80,581; renewed Jan. 10, 1931.

Derma Way Beauty School. (See Sarnes, Mary A.)

Dicalite Company, The, Torrance, Calif. Diatomaceous-earth materials. 277,916; Dec. 2; Serial No. 302,133; published Sept. 23, 1930. Class 1.

Dice-Count, Inc., Indianapolis, Ind. Game boards. 278,068; Dec. 2; Serial No. 304,369; published Sept. 16, 1930. Class 22.

Di Salvo, Leon, Philadelphia, Pa. Liquid skin cleanser containing alcohol. 278,042; Dec. 2; Serial No. 302,770; published Aug. 26, 1930. Class 6.

Dixon, B. M., doing business as B. D. Medicine Co., Pulaski, Va. Preparation for headache, neuralgia, etc. 277,948; Dec. 2; Serial No. 301,861; published Sept. 16, 1930. Class 6.

Dombcik, Bessie, Cleveland, Ohio. Hardware holders. 278,087; Dec. 2; Serial No. 290,565; published Sept. 16, 1930. Class 13.

Dorsey Printing Co., The, by change of name, to The Dorsey Company, Dallas, Tex. Carbon paper and typewriter ribbons. 79,194; renewed Aug. 16, 1930.

Doxa Watch Factory, Georges Ducommun. (See Ducommun, Georges, assignor.)

Drake Bakeries Incorporated, Brooklyn, N. Y. Cake. 277,983; Dec. 2; Serial No. 304,043; published Sept. 16, 1930. Class 46.

Ducommun, Georges, assignor to Doxa Watch Factory, Georges Ducommun, Le Locle, Switzerland. Watches, watch movements, watch dials, and watchcases. 79,196; renewed Aug. 16, 1930.

Du-Gas Fire Extinguisher Corporation, New York, N. Y. Fire-extinguishing chemicals. 278,057; Dec. 2; Serial No. 303,504; published Sept. 2, 1930. Class 6.

Duncan, William D., to Jennie D. Peltier, doing business as Duncan's Drug Stores, Ottawa, Ill., successor. Medical compounds. 36,131; renewed Mar. 26, 1931.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Dyes and dyestuffs. 277,938; Dec. 2; Serial No. 303,325; published Sept. 9, 1930. Class 6.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Intermediate for dyeing processes. 277,939; Dec. 2; Serial No. 303,324; published Sept. 9, 1930. Class 6.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Dyes and dyestuffs. 277,941; Dec. 2; Serial No. 303,171; published Sept. 9, 1930. Class 6.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Cleaning compound. 277,945; Dec. 2; Serial No. 302,676; published Sept. 16, 1930. Class 6.

Dutch Tea Rusk Company, Holland, Mich. Rusk. 278,078; Dec. 2; Serial No. 276,518; published Sept. 16, 1930. Class 46.

E. M. Pharmacal Company, assignor to Buenger Pharmacal Company, Denver, Colo. Alkaline powder. 278,029; Dec. 2; Serial No. 297,813; published Sept. 23, 1930. Class 6.

Eberle, J. N., & Cie. Aktiengesellschaft, Augsburg-Pfersee, Germany. Fret saws. 278,037; Dec. 2; Serial No. 296,177; published Sept. 23, 1930. Class 23.

Elmon Mercantile Company, The. (See Twohy-Elmon Mercantile Company.)

Electro-Master Company, assignor to Electromaster, Inc., Detroit, Mich. Thermostats. 278,092; Dec. 2; Serial No. 289,452; published Sept. 16, 1930. Class 26.

Elizabeth Marie, Inc., Philadelphia, Pa. Face creams. 277,978; Dec. 2; Serial No. 299,962; published Aug. 26, 1930. Class 6.

Ernstberger, H., & Co., New York, N. Y. Fabrics. 278,035; Dec. 2; Serial No. 296,406; published Sept. 9, 1930. Class 42.

Eureka Manufacturing Co., New York, N. Y. Piece goods, towelling, napkins, etc. 278,095; Dec. 2; Serial No. 287,919; published Sept. 23, 1930. Class 42.

Ex-Cel-O-Line Products Co., Brooklyn, N. Y. Preparation usable as an external antiseptic coating. 278,098; Dec. 2; Serial No. 286,835; published Sept. 9, 1930. Class 6.

Fagras, Anastasios G., doing business as Almotone Chemical Company, Colorado Springs, Colo. General tonic and blood purifier. 277,940; Dec. 2; Serial No. 303,174; published Sept. 16, 1930. Class 6.

Farbenfabriken of Elberfeld Co., assignor, by mesne assignments, to Winthrop Chemical Company, Inc., New York, N. Y. Diuretieum. 36,018; renewed Mar. 5, 1931.

Farbenfabriken of Elberfeld Company, assignor, by mesne assignments, to Winthrop Chemical Company, Inc., New York, N. Y. Sedative and hypnotic. 81,136; renewed Mar. 7, 1931.

Farbenfabriken of Elberfeld Company, assignor, by mesne assignments, to Winthrop Chemical Company, Inc., New York, N. Y. Antiseptic and disinfectant. 81,387; renewed Apr. 4, 1931.

Farmaide Products Co., Lincoln, Nebr. Vaporizing dust disinfectant. 277,920; Dec. 2; Serial No. 301,020; published Sept. 9, 1930. Class 6.

Farmers Elevator Service Company, also doing business as Farmer Elevator Co., Ralston, Iowa. Coal. 277,925; Dec. 2; Serial No. 303,846; published Sept. 23, 1930. Class 1.

Farmers Elevator Service Company, also doing business as Farmers Elevator Co., Ralston, Iowa. Wheat flour and feed for stock and poultry. 277,926; Dec. 2; Serial No. 303,844; published Sept. 23, 1930. Class 46.

Fiedler, Max, doing business as Bogey Practice Ball Company, assignor to J. Moerschel, jr., Milwaukee, Wis. Practice golf balls. 278,102; Dec. 2; Serial No. 285,448; published Sept. 16, 1930. Class 22.

Fitch, William A., Inc., New York, N. Y. Chemical. 278,034; Dec. 2; Serial No. 296,414; published Sept. 9, 1930. Class 6.

Flour Distributing Company, The. (See Ragland, C. B., Company.)

Forbes, Dr. Harry W., doing business as Forbes Farms, Thermal, Calif. Fresh citrus fruits, grapes, dates. 277,866; Dec. 2; Serial No. 304,133; published Sept. 16, 1930. Class 46.

Ford Manufacturing Company, by change of name to Ford Roofing Products Company, Chicago, Ill. Prepared rubber roofings. 80,275; renewed Nov. 29, 1930.

Foss Schneider Co., Cincinnati, Ohio. Malt syrup. 278,013; Dec. 2; Serial No. 300,715; published Sept. 16, 1930. Class 46.

Gardiner-Lucas Company, The, New York, assignor to National Licorice Company, Brooklyn, N. Y. Confectionery. 35,497; renewed Nov. 27, 1930.

Gebrüder Mayer Komm.-Ges., Esslingen-on-the-Neckar, Germany. Thermoinsulating material. 278,009; Dec. 2; Serial No. 293,039; published Sept. 9, 1930. Class 12.

Gedney, M. A., Pickling Company, The, by change of name to M. A. Gedney Company, Minneapolis, Minn. Foods and relishes. 35,261; renewed Oct. 16, 1930.

Gedney, M. A., Pickling Company, The, by change of name to M. A. Gedney Company, Minneapolis, Minn. Foods and relishes. 35,498; renewed Nov. 27, 1930.

Gehlert, R. S., & Co., Detroit, Mich. Coffee. 277,874; Dec. 2; Serial No. 303,473; published Sept. 16, 1930. Class 46.

Gibson Musical String Company, Belleville, N. J. Strings for banjos, guitars, etc. 278,107; Dec. 2. Class 36.

Glick, Emil, Cleveland, Ohio. Men's and boys' neckties. 278,128; Dec. 2. Class 39.

Glick, Max, Company, The, Cleveland, Ohio. Nut bar. 79,335; renewed Aug. 30, 1930.

Globe Grain & Milling Co., Los Angeles, Calif. Oil shortening. 277,878; Dec. 2; Serial No. 302,464; published Sept. 23, 1930. Class 46.

Globe-Wernicke Co., The, Norwood, Ohio. Steel filing trays and cabinets. 277,953; Dec. 2; Serial No. 304,196; published Sept. 16, 1930. Class 32.

Gottlieb, Isadore, doing business as Seminole Textile Co., New York, N. Y. Woolen piece goods and pile fabrics. 277,962; Dec. 2; Serial No. 303,374; published Sept. 9, 1930. Class 42.

Gray & Danielson Mfg. Co., The, San Francisco, Calif. Radio receiving sets. 277,884; Dec. 2; Serial No. 303,024; published Sept. 16, 1930. Class 21.

Gross, Benjamin & Edward J., Co., Inc., New York, N. Y. Finger rings and mountings therefor. 278,118; Dec. 2. Class 28.

CARNEGIE LIBRARY OF ATLANTA

Habif, Vita, Detroit, Mich. Soldering solution. 277,943; Dec. 2; Serial No. 303,026; published Sept. 16, 1930. Class 6.

Hagemeier, Hermann, doing business as Rudol-Fabrik Hermann Hagemeier, Leipzig, Germany. Solution for gluing leather on leather. 277,915; Dec. 2; Serial No. 302,508; published Sept. 16, 1930. Class 5.

Hair-Herbs Company. (See Hirtzel, Louise.)

Hall, Clifford T., New York, N. Y. Hats and caps. 278,129; Dec. 2. Class 39.

Happ, Peter J., doing business as Joh. André Sebald, Hildesheim, Germany. Hair tonics. 278,100; Dec. 2; Serial No. 286,387; published Sept. 9, 1930. Class 6.

Hartford Woolen Co., Hartford, Vt. Woolen piece goods. 278,072; Dec. 2; Serial No. 304,007; published Sept. 16, 1930. Class 42.

Hartzell Industries, Inc., Piqua, Ohio. Ventilator, blowers, and fans. 278,022; Dec. 2; Serial No. 298,993; published Sept. 23, 1930. Class 34.

Hayes, William L., Atlantic City, N. J. Astringents, astringent cerates, bleach creams, etc. 278,015; Dec. 2; Serial No. 300,412; published Sept. 9, 1930. Class 6.

Hazel Laboratories, Coffeyville, Kans. Liniment. 278,040; Dec. 2; Serial No. 302,731; published Aug. 26, 1930. Class 6.

Hello World Stamp Corporation, St. Louis, Mo. Discount or trading stamps. 277,904; Dec. 2; Serial No. 303,768; published Sept. 23, 1930. Class 38.

Herchenroder Candy Co., St. Joseph, Mo. Candy. 277,880; Dec. 2; Serial No. 301,265; published Sept. 16, 1930. Class 46.

Hinde & Dauch Paper Company, The, Sandusky, Ohio. Paperboard boxes. 278,097; Dec. 2; Serial No. 287,661; published Sept. 16, 1930. Class 2.

Hindu Incense Manufacturing Company. (See O'Keeffe, Alexis W., assignor.)

Hirschberg, Schutz & Co., New York, N. Y. Perfumes, powder, sachet, rouge, etc. 277,961; Dec. 2; Serial No. 303,535; published Sept. 9, 1930. Class 6.

Hirschl & Bendheim, Washington, Mo. Tobacco-smoking pipes. 277,999; Dec. 2; Serial No. 295,676; published Sept. 16, 1930. Class 8.

Hirtzel, Louise, doing business as Hair-Herbs Company, Chicago, Ill. Hair tonic. 278,062; Dec. 2; Serial No. 301,440; published Aug. 26, 1930. Class 6.

Holbrook Grocery Co., The, Keene, Woodsville, and Nashua, N. H., assignor, by mesne assignments, to Holbrook Grocery Co., Keene, N. H. Grass seed. 81,273; Renewed Mar. 21, 1931.

Holbrook, Merrill & Stetson, Inc., Limited, Wilmington, Del., and Los Angeles, Calif. Gas ranges, stoves, and heaters. 277,997; Dec. 2; Serial No. 301,638; published Sept. 16, 1930. Class 34.

Holmes, Frank S., doing business as Holmes Drug Laboratories, Turtle Creek, Pa. Antiseptic vaginal suppositories. 278,055; Dec. 2; Serial No. 303,475; published Aug. 26, 1930. Class 6.

Honse of Crane, Inc., Indianapolis, Ind. Cigars. 278,132; Dec. 2. Class 17.

Howe, George J., Company, Grove City, Pa. Coffee. 277,871; Dec. 2; Serial No. 303,746; published Sept. 16, 1930. Class 46.

Hutchinson & Jaquith, Inc., New York, N. Y. Wheat flour. 277,912; Dec. 2; Serial No. 303,442; published Sept. 16, 1930. Class 46.

Huxley Laboratories, Inc., The, New York, N. Y. Medicine. 278,028; Dec. 2; Serial No. 298,103; published Sept. 2, 1930. Class 6.

Independent Druggists' Alliance Distributing Co., Chicago, Ill. Candy. 277,870; Dec. 2; Serial No. 303,905; published Sept. 23, 1930. Class 46.

Independent Druggists' Alliance Distributing Co., Chicago, Ill. Rubber play balls. 277,902; Dec. 2; Serial No. 303,897; published Sept. 23, 1930. Class 22.

Independent Druggists' Alliance Distributing Co., Chicago, Ill. Adhesive paste. 277,984; Dec. 2; Serial No. 303,891; published Sept. 23, 1930. Class 5.

Independent Druggists' Alliance Distributing Co., Chicago, Ill. Leather wallets. 277,985; Dec. 2; Serial No. 303,889; published Sept. 23, 1930. Class 3.

Independent Druggists' Alliance Distributing Co., Chicago, Ill. Malt beverage. 278,074; Dec. 2; Serial No. 303,906; published Sept. 23, 1930. Class 48.

Indian Refining Company, Lawrenceville, Ill. Oils and greases. 278,122; Dec. 2. Class 15.

Inhalit Company of America. (See Sunshine Pharmaceutical Co. Inc.)

International Fire Equipment Corporation, West New Brighton, N. Y. Stationary automatic fire extinguishers. 278,124; Dec. 2. Class 23.

International Milling Company. (See New Prague Flouring Mill Company, assignor.)

International Safety Razor Corp., Bloomfield, N. J. Razor blades. 277,954; Dec. 2; Serial No. 304,144; published Sept. 16, 1930. Class 23.

Iveen Cosmetics. (See Lawrence, Estelle M.)

Jacobs, Philip, Philadelphia, Pa. Salve. 277,919; Dec. 2; Serial No. 301,111; published Sept. 16, 1930. Class 6.

Jansen & Pretzfeld, Inc., New York, N. Y. Silk piece goods. 278,115; Dec. 2. Class 42.

Jawine Co., The. (See Weinberger, Julius A.)

Johnson Suture Corporation, Cook County, Ill. Gut strings. 278,134; Dec. 2. Class 22.

Jullman Salz & Co., San Francisco, Calif. Leather. 35,766; renewed Jan. 15, 1931.

Karpen, S., & Bros., Chicago, Ill. Mattresses. 277,975; Dec. 2; Serial No. 300,202; published Sept. 16, 1930. Class 32.

Keasbey, Robert A., Company, New York, N. Y. Machinery packing. 79,839; renewed Oct. 11, 1930.

Kelco Company, San Diego, Calif. Dried and powdered kelp. 277,971; Dec. 2; Serial No. 300,351; published Sept. 9, 1930. Class 6.

Kelco Company, San Diego, Calif. Alginic acid, sodium alginate, ammonium alginate, etc. 277,972; Dec. 2; Serial No. 300,350; published Sept. 9, 1930. Class 6.

Kellogg Switchboard & Supply Co., Chicago, Ill. Subscribers' desk telephone sets. 277,970; Dec. 2; Serial No. 300,352; published Sept. 16, 1930. Class 21.

Kelly-Springfield Tire Company, New York, N. Y. Automobile tires and inner tubes. 277,958; Dec. 2; Serial No. 303,851; published Sept. 23, 1930. Class 35.

Kessler Brothers, New York, N. Y. Jewelry. 278,125; Dec. 2. Class 28.

Kenffel & Esser Company, Hoboken, N. J. Ink eradicator. 278,139; Dec. 2. Class 6.

Kiel Furniture Co., The, Milwaukee, Wis. Tables. 277,956; Dec. 2; Serial No. 303,909; published Sept. 23, 1930. Class 32.

Knox Hat Company, Inc., New York, N. Y. Leather hat-boxes, suitcases, and hand bags. 278,084; Dec. 2; Serial No. 279,659; published Sept. 23, 1930. Class 3.

Kriel, Charles G., to The C. G. Kriel Company, Baltimore, Md., successor. Hams, bacon, and lard. 36,165; renewed Apr. 2, 1931.

Kuramochi, Chokichi, Tokyo, Japan. Toys and implements for exercises and sports. 277,969; Dec. 2; Serial No. 302,636; published Sept. 16, 1930. Class 22.

Lake Charles Rice Milling Company of Louisiana, Inc., Lake Charles, La. Rice. 277,979; Dec. 2; Serial No. 299,846; published Sept. 23, 1930. Class 46.

Larbee, Ida A. (See Schmidt, Ida.)

Lawrence, Estelle M., doing business as Iveen Cosmetics, Los Angles, Calif. Cosmetics. 278,061; Dec. 2; Serial No. 301,468; published Sept. 2, 1930. Class 6.

Lee & Cady, Detroit, Mich. Coffee. 277,862; Dec. 2; Serial No. 304,203; published Sept. 16, 1930. Class 46.

Les Pansements Brevetes Corbiere, Paris, France. Anesthetics. 278,012; Dec. 2; Serial No. 300,729; published Sept. 16, 1930. Class 6.

Lovell Manufacturing Company, Erie, Pa. Laundry machinery. 36,237; renewed Apr. 9, 1931.

Luckenbach, D. & A., Bethlehem, Pa. Wheat flour. 78,809; renewed July 12, 1930.

Lutz & Schramm Company, Pittsburgh, Pa. Certain foods. 81,345; renewed Mar. 28, 1931.

Lux, Howard, Company, The, Cleveland, Ohio. Golf balls. 277,951; Dec. 2; Serial No. 301,108; published Sept. 16, 1930. Class 22.

M. & N. Clear Manufacturers, Inc. (See Seubert, Justin, Inc., assignor.)

Maas, Margaret J., Erie, Pa. Skin ointment. 277,959; Dec. 2; Serial No. 303,607; published Sept. 9, 1930. Class 6.

Maggi Co., The, Kemptthal, Switzerland. Bouillon cubes. 277,861; Dec. 2; Serial No. 304,335; published Sept. 16, 1930. Class 46.

Maier, Fred, jr., Buffalo, N. Y. Doughnuts. 278,089; Dec. 2; Serial No. 290,135; published Sept. 23, 1930. Class 46.

Mallinson, H. R., & Co., Inc., New York, N. Y. Cotton drapery fabrics. 278,026; Dec. 2; Serial No. 298,406; published Sept. 16, 1930. Class 42.

Manitowoc Products Company, Manitowoc, Wis. Malt beverage. 277,977; Dec. 2; Serial No. 299,978; published Sept. 23, 1930. Class 48.

Martin Sons and Company, Ltd., Huddersfield, England. Worsted cloth piece goods. 79,591; renewed Sept. 20, 1930.

Mevel Chemical Company, Baltimore, Md. Ointment. 277,942; Dec. 2; Serial No. 303,032; published Sept. 16, 1930. Class 6.

Mica Insulator Company, New York and Schenectady, N. Y. Electrical insulating compounds. 277,883; Dec. 2; Serial No. 303,065; published Sept. 16, 1930. Class 21.

Milano Furniture Co., Inc., Chicago, Ill. Coffee tables, mirror frames, tea carts, etc. 278,005; Dec. 2; Serial No. 294,817; published Sept. 16, 1930. Class 32.

Miller & West, Inc., Coral Gables, Fla. Golf balls. 277,950; Dec. 2; Serial No. 301,487; published Sept. 23, 1930. Class 22.

Miniature Golf Courses, Inc., Chicago, Ill. Golf courses and parts therefor. 278,077; Dec. 2; Serial No. 303,541; published Sept. 16, 1930. Class 22.

Moerschel, Jacob, jr. (See Fiedler, Max, assignor.)

Monark Battery Company, Inc., Chicago, Ill. Storage batteries. 277,906; Dec. 2; Serial No. 303,696; published Sept. 16, 1930. Class 21.

Monocacy Valley Canning Company, Frederick, Md. Canned fruits and vegetables. 278,023; Dec. 2; Serial No. 298,760; published Sept. 16, 1930. Class 46.

Montag Bros., Inc., Atlanta, Ga. Writing paper and envelopes. 277,894; Dec. 2; Serial No. 304,157; published Sept. 16, 1930. Class 37.

Muenster, Otto W., La Crosse, Wis. Antiglare shields. 277,896; Dec. 2; Serial No. 304,104; published Sept. 23, 1930. Class 19.

Mulkey Salt Company, Detroit, Mich. Salt. 277,936; Dec. 2; Serial No. 303,917; published Sept. 16, 1930. Class 6.

N. V. Standard Water Maatschappij, Amsterdam, Netherlands. Preparations for purifying liquids, in particular water. 278,016–17; Dec. 2; Serial Nos. 300,362–3; published Aug. 26, 1930. Class 6.

National Bellas Hess Co., Inc., New York, N. Y. Catalogues. 277,901; Dec. 2; Serial No. 303,918; published Sept. 16, 1930. Class 38.

National Biscuit Company, Jersey City, N. J., and Chicago, Ill., to National Biscuit Company, New York, N. Y. Bakery products. 36,221; renewed Apr. 9, 1931.

National Biscuit Company, Jersey City, N. J., and New York, N. Y., to National Biscuit Company, New York, N. Y. Biscuit. 81,405; renewed Apr. 4, 1931.

National Electric Products Corporation, Pittsburgh, Pa. Wires and cables for electrical use. 278,110; Dec. 2. Class 21.

National Licorice Company. (See Gardiner-Lucas Company, The, assignor.)

National Shoe Polish Manufacturing Company, Philadelphia, Pa. Shoe polishes, dressings, and creams. 81,351; renewed Mar. 28, 1931.

Neuweiler's, Louis F., Sons, Allentown, Pa. Malt beverage. 278,071; Dec. 2; Serial No. 304,247; published Sept. 23, 1930. Class 48.

New Prague Flouring Mill Company, New Prague, assignor to International Milling Company, Minneapolis, Minn. Wheat flour. 81,408; renewed Apr. 4, 1931.

Nichiro Gyogyo Kabushiki Kaisha, Tokyo, Japan. Canned fish. 278,032; Dec. 2; Serial No. 297,454; published Sept. 16, 1930. Class 46.

North Wayne Tool Company, Oakland, Me. Cake, bread, and hay knives, scythes, axes, etc. 278,101; Dec. 2; Serial No. 286,380; published Sept. 23, 1930. Class 28.

Novelty Cutlery Company, Brooklyn, N. Y. Bone-handle knives of base metal and bone and imitation-bone handles for knives. 278,112; Dec. 2. Class 23.

Odorless Disinfectants, Inc., New York, N. Y. Liquid-disinfectant deodorizer. 277,929; Dec. 2; Serial No. 304,062; published Sept. 23, 1930. Class 6.

O'Keeffe, Alexis W., assignor, by mesne assignments, to Hindu Incense Manufacturing Company, Chicago, Ill. Incense. 278,008; Dec. 2; Serial No. 294,235; published Sept. 9, 1930. Class 6.

Oneida Community, Limited, Oneida, N. Y. Silver flatware. 278,126; Dec. 2. Class 28.

Optical Service Corporation, New York, N. Y. Lenses. 278,082; Dec. 2; Serial No. 281,744; published Sept. 23, 1930. Class 26.

Oxyborate Company, Inc., Buffalo, N. Y. Proprietary medicine. 277,918; Dec. 2; Serial No. 301,201; published Sept. 16, 1930. Class 6.

Pacific Steel Boiler Corporation, Waukegan, Ill.; Bristol, Pa.; and Detroit, Mich. House heating boilers. 277,989; Dec. 2; Serial No. 304,212; published Sept. 23, 1930. Class 34.

Palisade Manufacturing Co., The, assignor, by mesne assignments, to The Arlington Chemical Company, Yonkers, N. Y. Medicinal cordial. 81,166; renewed Mar. 7, 1931.

Paquin, William T., doing business as The Audline Company, Worcester, Mass. Toilet preparations. 278,931; Dec. 2; Serial No. 297,377; published Aug. 26, 1930. Class 6.

Parks & Woolson Machine Company, Springfield, Vt. Cloth-conditioning apparatus. 277,981; Dec. 2; Serial No. 299,618; published Sept. 23, 1930. Class 23.

Parrott & Co., San Francisco, Calif. Canned crab meat. 79,930; renewed Oct. 18, 1930.

Patrol Valve Company, The, Cleveland, Ohio. Gas-range burner ignition and control device. 277,993; Dec. 2; Serial No. 303,383; published Sept. 16, 1930. Class 34.

Patton Paint Company, Milwaukee, Wis., to Pittsburgh Plate Glass Company, Pittsburgh, Pa., successor. Paints and painters' supplies. 35,818; renewed Jan. 22, 1931.

Patton Paint Company, Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Ready-mixed paint. 81,228; renewed Mar. 14, 1931.

Peltier, Jennie D. (See Duncan, William D.)

Penton Publishing Company, The, Cleveland, Ohio. Newspaper. 277,897; Dec. 2; Serial No. 304,088; published Sept. 16, 1930. Class 38.

Perfect Circle Co., The, Hagerstown, Ind. Piston rings. 278,051; Dec. 2; Serial No. 303,253; published Sept. 16, 1930. Class 35.

Phillips Packing Company, Inc., Cambridge, Md. Canned vegetables, fish, and fish roe. 277,980; Dec. 2; Serial No. 299,797; published Sept. 16, 1930. Class 46.

Phoenix Shirt Company, The, New York, N. Y. Men's and boys' dress shirts. 278,119; Dec. 2. Class 39.

Pilot Radio & Tube Corporation, Brooklyn, N. Y. Radio receiving apparatus. 278,088; Dec. 2; Serial No. 290,322; published Sept. 16, 1930. Class 21.

Pittsburgh Plate Glass Company. (See Patton Paint Company, assignor.)

Pittsburgh Steel Company, Pittsburgh, Pa. Wire fencing. 277,988; Dec. 2; Serial No. 304,343; published Sept. 23, 1930. Class 13.

Plough, Inc., Memphis, Tenn. Line of toilet preparations. 278,021; Dec. 2; Serial No. 299,336; published Sept. 9, 1930. Class 6.

Pontiac Company, Newark, N. J. Watch bracelets, straps, attachments. 277,905; Dec. 2; Serial No. 303,725; published Sept. 16, 1930. Class 28.

Potigian, M., Fresno, Calif. Fresh fruits and vegetables. 278,079; Dec. 2; Serial No. 284,995; published Sept. 16, 1930. Class 46.

Praktische Maschinen, G. m. b. H., Berlin, Germany. Paper and stationery. 277,887; Dec. 2; Serial No. 301,695; published Sept. 23, 1930. Class 37.

Praktische Maschinen, G. m. b. H., Berlin, Germany. Bookbinding machines, gluing machines, pasting machines, etc. 278,059; Dec. 2; Serial No. 301,696; published Sept. 23, 1930. Class 23.

Professional Golfers' Association of America, New York, N. Y. Golf balls and golf clubs. 278,036; Dec. 2; Serial No. 296,197; published Sept. 23, 1930. Class 22.

Pyramiden-Fliegenfänger-Fabrik Max Dametz m. b. H., Zeltz Zeltz, Germany. Flycatchers. 277,957; Dec. 2; Serial No. 303,700; published Sept. 16, 1930. Class 50.

Ragland, C. B., Company, Nashville, Tenn. Wheat flour. 277,927; Dec. 2; Serial No. 303,782; published Sept. 16, 1930. Class 46.

Ragland, C. B., Company, also doing business as The Flour Distributing Company, Nashville, Tenn. Wheat flour. 277,928; Dec. 2; Serial No. 303,781; published Sept. 16, 1930. Class 46.

Redel Candy Corporation, The, Milwaukee, Wis. Candy. 277,877; Dec. 2; Serial No. 302,747; published Sept. 23, 1930. Class 46.

Reeve, Percival J., doing business as Reeve & Mitchell Co., Philadelphia, Pa. Filter cloths, cotton discs, filter bags, etc. 278,070; Dec. 2; Serial No. 304,250; published Sept. 23, 1930. Class 31.

Republic Stamping & Enameling Co., The, Canton, Ohio. Food-preserving receptacles for refrigerators. 277,949; Dec. 2; Serial No. 302,187; published Sept. 16, 1930. Class 31.

Rice-Stix Dry Goods Co., St. Louis, Mo. Sheetings, sheets, bolster and pillow cases. 81,357; renewed Mar. 28, 1931. Class 42.

Richmond Stove Company, The, Norwich, Conn., to Richmond Radiator Company, New York, N. Y., successor. Heating apparatus. 35,986; renewed Feb. 26, 1931. Class 34.

Riegel Paper Corporation, Riegelsville, N. J., and New York, N. Y. Writing paper. 277,895; Dec. 2; Serial No. 304,107; published Sept. 16, 1930. Class 37.

Rinaldi Bros. to Rinaldi Bros. Paint Works Inc., Philadelphia, Pa., successor. Ready-mixed paints. 80,546; renewed Jan. 3, 1931. Class 16.

Roethlisberger & Co. Inc., New York, N. Y. Cheese and cracker sticks. 277,911; Dec. 2; Serial No. 303,515; published Sept. 16, 1930. Class 46.

Rogers, Charles C. (See Smith, Walter E., assignor.)

Rojas, M. L., Co. (See Sills, José L.)

Roland, Martha, Co., Chicago, Ill. Preserved fruits, jams, jellies, etc. 278,138; Dec. 2. Class 46.

Royal Coal Co., Lansing, Mich. Coal. 278,085; Dec. 2; Serial No. 278,556; published Sept. 16, 1930. Class 1.

Ruberoid Co., The, New York, N. Y. Roofing and building paper. 278,127; Dec. 2. Class 12.

Rudol-Fabrik Hermann Hagemeier. (See Hagemeier, Hermann.)

Ru-Ma-Nox Medicine Co., Altamont, Tenn. Medicine. 278,081; Dec. 2; Serial No. 283,417; published Sept. 16, 1930. Class 6.

Ryck Brothers & Company, Louisville, Ky. Shoes. 278,135; Dec. 2. Class 39.

Sani-Douche Co., Inc., North Arlington, N. J. Douche powders and antiseptic preparations. 277,947; Dec. 2; Serial No. 302,445; published Sept. 16, 1930. Class 6.

Santa Clara Pear Association, San Jose, Calif. Fresh deciduous fruits. 278,091; Dec. 2; Serial No. 289,646; published Sept. 23, 1930. Class 46.

Sarnes, Mary A., doing business as Derma Way Beauty School, Detroit, Mich. Monthly publication. 277,886; Dec. 2; Serial No. 302,033; published Sept. 16, 1930. Class 38.

Savoy Park Shop Inc., New York, N. Y. Prepared gift packages or baskets. 277,987; Dec. 2; Serial No. 301,299; published Sept. 23, 1930. Class 1.

Schavolite Golf Corporation, New York, N. Y. Golf clubs. 278,066; Dec. 2; Serial No. 304,583; published Sept. 23, 1930. Class 22.

Schiller, F. A., Inc., Irvington, N. J. Radiotubes and television tubes. 277,892; Dec. 2; Serial No. 304,215; published Sept. 16, 1930. Class 21.

Schmidt, Fred E., doing business as Allied Products, Milwaukee, Wis. Preparation for treating corns. 278,099; Dec. 2; Serial No. 286,596; published Sept. 16, 1930. Class 6.

Schmidt, Ida, doing business as Ida A. Larbee, Los Angeles, Calif. Hair pastes. 278,065; Dec. 2; Serial No. 301,064; published Sept. 9, 1930. Class 6.

Schneider, F. A., doing business as Warren Dried Fruit Co., San Jose, Calif. Dried fruits. 277,865; Dec. 2; Serial No. 304,164; published Sept. 16, 1930. Class 46.

Schreter, A. & Sons Co., Inc., Baltimore, Md. Cravats. 278,113; Dec. 2. Class 39.

Schwarzenbach Huber Co., The, New York, N. Y. Broad silks and silk mixtures. 277,965; Dec. 2; Serial No. 303,036; published Sept. 23, 1930. Class 42.

Sears, Roebuck and Co., Chicago, Ill. Ironer. 277,885; Dec. 2; Serial No. 302,488; published Sept. 16, 1930. Class 24.

Sears, Roebuck and Co., Chicago, Ill. Lavender shaving lotion, talcum powder. 278,038; Dec. 2; Serial No. 302,043; published Sept. 2, 1930. Class 6.

Sears, Roebuck and Co., Chicago, Ill. Women's hats. 278,114; Dec. 2. Class 39.

Sebald, Joh. A. (See Happ, Peter J.)

Seeley, G. A., Louisville, Colo. Oil or liniment for use in treating sprains, etc. 278,058; Dec. 2; Serial No 301,714; published Aug. 26, 1930. Class 6.

Semhole Textile Co. (See Gottlieb, Isadore.)

Seubert, Justin, Inc., Syracuse, N. Y., assignor to M. & N. Cigar Manufacturers, Inc., Cleveland, Ohio. Cigars. 79,303; renewed Aug. 23, 1930.

Sills, José L., doing business as M. L. Rojas Co., Los Angeles, Calif. Chocolate confections. 278,027; Dec. 2; Serial No. 298,363; published Sept. 16, 1930. Class 46.

Simashevsky, Paul J., Chicago, Ill. Tonic and blood purifier. 278,010; Dec. 2; Serial No. 300,988; published Aug. 26, 1930. Class 6.

Simons, Shuttleworth & French Company, Sacramento, Calif., by change of name Simons & French Company, Incorporated. Fresh fruits and vegetables. 277,873; Dec. 2; Serial No. 303,552; published Sept. 16, 1930. Class 46.

Smith-Courtney Company, Richmond, Va. Antifriction and bearing metal. 35,586; renewed Dec. 11, 1930.

Smith, Walter E., Boston, assignor to Charles C. Rogers, Cambridge, Mass. Catnip, catnip preparation, and catnip balls. 80,293; renewed Nov. 29, 1930.

Societe Les Parfums Guemeaux, Asnieres, France. Perfumes. 278,006; Dec. 2; Serial No. 294,692; published Sept. 16, 1930. Class 6.

South Texas Grain Company, Houston, Tex. Grain and mixed food for stock. 80,089; renewed Nov. 1, 1930.

South Texas Grain Company, Houston, Tex. Grain and mixed food for stock. 80,559; renewed Jan. 3, 1931.

Sprague Specialties Company, Quincy, Mass. Electric condensers. 277,908; Dec. 2; Serial No. 303,662; published Sept. 16, 1930. Class 21.

Staedtler, J. S., Inc., New York, N. Y. Lead pencils, blackboard pencils, penholders, etc. 277,899; Dec. 2; Serial No. 303,935; published Sept. 16, 1930. Class 37.

Stanford University. (See Board of Trustees of the Leland Stanford Junior University, The.)

Stanform Limited, London, England. Skin ointment, antiseptics, nasal spray, etc. 278,093; Dec. 2; Serial No. 288,255; published Sept. 16, 1930. Class 6.

Steam and Combustion Company, Chicago, Ill. Boilers and boiler auxiliaries. 277,994; Dec. 2; Serial No. 303,221; published Sept. 16, 1930. Class 34.

Ste. Anonyme Française Redfern, Paris, France. Perfumery goods. 278,025; Dec. 2; Serial No. 298,552; published Sept. 2, 1930. Class 6.

Sterling Mills, Ilion, N. Y. Sweater coats. 278,137; Dec. 2. Class 39.

Stewart-Dawes Shoe Company, Los Angeles, Calif. Leather boots and shoes. 80,813; renewed Jan. 31, 1931.

Stout, Charles B., doing business as Washington Flour Mill, Washington, Mo. Wheat flour. 278,014; Dec. 2; Serial No. 300,449; published Sept. 23, 1930. Class 46.

Strauss, Philip, Nanticoke, Pa. Furniture. 278,063; Dec. 2; Serial No. 301,214; published Sept. 16, 1930. Class 32.

Stuyvesant Company, The, New York, N. Y., assignor, by mesne assignments, to The Curtis Publishing Company, Philadelphia, Pa. Printed publications and periodicals. 36,115; renewed Mar. 26, 1931.

Sugar Publications, Inc., New York, N. Y. Publication. 278,000; Dec. 2; Serial No. 295,399; published Sept. 23, 1930. Class 38.

Sunshine Pharmaceutical Co. Inc., doing business as Inhalit Company of America, New York, N. Y. Liquid inhalent for colds. 278,111; Dec. 2. Class 6.

Sun Tube Corporation, The, Hillside, N. J. Collapsible tubes, bottles, and jars. 277,992; Dec. 2; Serial No. 303,664; published Sept. 16, 1930. Class 2.

Swigert, Hart & Yett, Inc., Portland, Oreg. Unitary vehicular machine. 277,952; Dec. 2; Serial No. 304,222; published Sept. 16, 1930. Class 23.

Texas Company, The, Houston, Tex., and New York, N. Y., assignor to The Texas Company, New York, N. Y. Kerosene. 80,879; renewed Feb. 7, 1931.

Texas Company, The, Houston, Tex., and New York, N. Y., assignor to The Texas Company, New York, N. Y. Turpentine substitute consisting of benzin. 80,961; renewed Feb. 14, 1931.

Texas Company, The, Houston, Tex., and New York, N. Y., assignor to The Texas Company, New York, N. Y. Kerosene. 81,179; renewed Mar. 7, 1931.

Texas Company, The, Wilmington, Del., and New York, N. Y. Publications. 277,893; Dec. 2; Serial No. 304,166; published Sept. 23, 1930. Class 38.

Thermodor Company, Inc., Detroit, Mich. Heat-insulated bottle containers. 277,995; Dec. 2; Serial No. 302,917; published Sept. 23, 1930. Class 2.

Thinshell Candies, Inc., Chicago, Ill. Candy. 278,083; Dec. 2; Serial No. 281,024; published Sept. 23, 1930. Class 46.

Thomson, Robert M., Miami, Fla. Flying machines. 278,094; Dec. 2; Serial No. 287,951; published Sept. 23, 1930. Class 19.

Tide Water Oil Company, New York, N. Y. Lubricating oils. 80,390; renewed December 13, 1930.

Timme, E. F., & Son, New York, N. Y. Pile fabrics in the piece. 277,963; Dec. 2; Serial No. 303,262; published Sept. 9, 1930. Class 42.

Townsend, E. M., & Co., assignor to Dann, Rogers, Spritzer Co., New York, N. Y. Hosiery. 79,614; renewed Sept. 20, 1930.

Travers, Paul P., New York, N. Y. Periodical. 277,889; Dec. 2; Serial No. 304,433; published Sept. 23, 1930. Class 38.

True, Hiram L., to Augusta True, McConnelsville, Ohio, successor. Remedies for certain diseases. 79,453; renewed Sept. 6, 1930.

Twoby-Eimon Mercantile Company, by change of name to The Eimon Mercantile Company, Superior, Wis. Canned fruits and vegetables. 79,537; renewed Sept. 13, 1930.

Union Oil Company of California, Los Angeles, Calif. Lubricating oils. 278,104; Dec. 2; Serial No. 268,716; published Sept. 16, 1930. Class 15.

Upjohn Company, The, Kalamazoo, Mich. Cod-liver-oil emulsion. 278,056; Dec. 2; Serial No. 303,496; published Aug. 26, 1930. Class 6.

Valette, P. E., et Cie., Paris, France. Prism binoculars and glasses. 278,004; Dec. 2. Serial No. 294,822; published Sept. 16, 1930. Class 26.

Van Raalte Company, New York, N. Y. Hosiery. 278,045; Dec. 2; Serial No. 303,073; published Sept. 9, 1930. Class 39.

Virginia Buffalo Springs Corporation, Buffalo Springs, Va. Spring water. 277,967; Dec. 2; Serial No. 302,842; published Sept. 23, 1930. Class 45.

Voelpel, Edward W., doing business as Vol-Pel Beverage Company, Clinton, Iowa. Maltless beverages and preparations for making the same. 277,964; Dec. 2; Serial No. 303,075; published Sept. 16, 1930. Class 45.

Vol-Pel Beverage Company. (See Voelpel, Edward W.)

Waldes & Co., Prague-Wrschowitz, Austria-Hungary, assignor, by mesne assignments, to Waldes Koh-I-Noor, Inc., Long Island City, N. Y. Snap buttons used as garment fasteners. 80,095; renewed Nov. 1, 1930.

Walker, Alfie J., Omaha, Nebr. Salve. 278,064; Dec. 2; Serial No. 301,081; published Aug. 19, 1930. Class 6.

Walworth Company, Boston, Mass. Wrenches. 277,955; Dec. 2; Serial No. 304,079; published Sept. 16, 1930. Class 23.

Warren Dried Fruit Co. (See Schneider, F. A.)

Washington Flour Mill. (See Stout, Charles B.)

Watson-Park Company, Boston, Mass. Various chemical preparations. 277,935; Dec. 2; Serial No. 303,928; published Sept. 16, 1930. Class 6.

Weinberger, Julius A., doing business as The Jawine Co., New York, N. Y. Rayon and wool yarns. 277,968; Dec. 2; Serial No. 302,710; published Sept. 16, 1930. Class 43.

Welte-Mignon Piano Corporation, New York, N. Y. Self-playing pianos and piano players. 278,136; Dec. 2. Class 36.

Western Leather Belting Company, Salt Lake City, Utah. Leather belting. 278,121; Dec. 2.

Western Pharmacal Company, Inc., Phoenix, Ariz. Medicinal preparation. 278,090; Dec. 2; Serial No. 289,778; published Sept. 23, 1930. Class 6.

Westfeldt Brothers, New Orleans, La. Green coffee. 277,879; Dec. 2; Serial No. 302,449; published Sept. 23, 1930. Class 46.

West Virginia Coal & Coke Corp., Cincinnati, Ohio. Coal. 277,986; Dec. 2; Serial No. 303,866; published Sept. 16, 1930. Class 1.

White Brothers, to White Brothers, Inc., Winchendon, Mass., successor. Cotton piece goods. 81,186; renewed Mar. 7, 1931.

White, Ed., Graysport, Miss. Liquid medicine for bronchitis, tuberculosis, etc. 278,133; Dec. 2. Class 6.

White Star Refining Company, Detroit, Mich. Storage batteries. 277,900; Dec. 2; Serial No. 303,930; published Sept. 16, 1930. Class 21.

White Star Refining Company, Detroit, Mich. Tires, inner tubes, and tire and tube repair patches. 278,050; Dec. 2; Serial No. 303,238; published Sept. 23, 1930. Class 35.

Whitman & Barnes, Inc., Detroit, Mich. Drills. 278,039; Dec. 2; Serial No. 302,226; published Sept. 16, 1930. Class 23.

Wilcox-Mosher-Leffholm Company, Minneapolis, Minn. Enamel book paper. 278,106; Dec. 2. Class 37.

Willett, Jane, Dallas, Tex. Hair-waving fluid. 278,096; Dec. 2; Serial No. 287,685; published Sept. 16, 1930. Class 6.

Williamson Candy Co., Chicago, Ill. Candy. 277,863; Dec. 2; Serial No. 304,174; published Sept. 16, 1930. Class 46.

Williamson Candy Co., Chicago, Ill. Candy. 277,864; Dec. 2; Serial No. 304,173; published Sept. 23, 1930. Class 46.

Winthrop Chemical Company, Inc. (See Farbenfabriken of Elberfeld Co., assignor.)

World's Products Company, Spencer, Ind. Parched sweet corn. 277,867; Dec. 2; Serial No. 304,080; published Sept. 23, 1930. Class 46.

World's Products Company, Spencer, Ind. Parched sweet corn. 277,868; Dec. 2; Serial No. 304,028; published Sept. 23, 1930. Class 46.

Wright & McGill Company, Denver, Colo. Fish lures. 278,080; Dec. 2; Serial No. 283,639; published Sept. 23, 1930. Class 22.
Wurlitzer Grand Piano Company, De Kalb, Ill. Pianos and piano players. 278,105; Dec. 2; Serial No. 251,706; published Sept. 16, 1930. Class 36.
Yale and Towne Mfg. Co., The, Stamford, Conn. Door fasts, latches, transom catches, etc. 277,903; Dec. 2; Serial No. 303,792; published Sept. 16, 1930. Class 25.
Yale and Towne Mfg. Co., The, Stamford, Conn. Letter and post-office boxes. 277,990; Dec. 2; Serial No. 304,029; published Sept. 16, 1930. Class 2.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS

Beck, Joseph H., & Co., Inc., Philadelphia, Pa. Chelsea Arms. For Cigars. 38,313; Dec. 2.
Canadian Pale Products Association, Harrisburg, Pa. Canadian Pale. For Bottled Liquid Made with Malt and Hops and Containing Less Than one-half of one per cent of Alcohol by Volume. 38,314; Dec. 2.
Chanquet, P., & Son, Oakland, Calif. K-I-K Real Hop-Flavored Malt Syrup. For Malt Syrup. 38,315; Dec. 2.
Continental Pure Products Company. (See Polefsky, Joseph S.)
Edelsauer Service Corporation, Chicago, Ill. Pumpo-Knickel. For Bread. 38,316; Dec. 2.
Embossing Company, The, Albany, N. Y. Card Race. For Puzzle Employing Numbered Blocks. 38,317; Dec. 2.
Hoague-Sprague Corporation, Lynn, Mass. Kitty Kelly. For Boxes. 38,318; Dec. 2.
Hoague-Sprague Corporation, Lynn, Mass. Michel Shoes. For Boxes. 38,319; Dec. 2.
Hoague-Sprague Corporation, Lynn, Mass. Smart Styles. For Boxes. 38,320; Dec. 2.
Hoague-Sprague Corporation, Lynn, Mass. Dr. Merrill's. For Boxes. 38 321; Dec. 2.
Hoague-Sprague Corporation, Lynn, Mass. Ohrbach's. For Boxes. 38,322; Dec. 2.
Hoague-Sprague Corporation, Lynn, Mass. Paramount. For Boxes. 38,323; Dec. 2.
Hoague-Sprague Corporation, Lynn, Mass. Superior Shoe Co. For Boxes. 38,324; Dec. 2.
Hoague-Sprague Corporation, Lynn, Mass. The Henri Shoe. For Boxes. 38,325; Dec. 2.
Hoague-Sprague Corporation, Lynn, Mass. United Shoe Stores. For Boxes. 38,326; Dec. 2.
Hoague-Sprague Corporation, Lynn, Mass. Pandora. For Boxes. 38,327; Dec. 2.
Hoague-Sprague Corporation, Lynn, Mass. St. Regis Shoe Co. For Boxes. 38,328; Dec. 2.
Hoague-Sprague Corporation, Lynn, Mass. Miller's Incorporated. For Boxes. 38,329; Dec. 2.
Hygeia Antiseptic Toothpick Co., Inc., The, New York, N. Y. Hygeia Quill Toothpicks. For Quill Toothpicks. 38,330; Dec. 2.
Israel, Joshua, doing business as Red-E-Koffe Company, Atlantic City, N. J. Red-E-Koffe. For Koffe. 38,331; Dec. 2.
Knobview Fruit Growers Cooperative Association, Knobview, Mo. Ozark Concord Grapes, "The Pride of Knobview". For Grapes. 38,332; Dec. 2.
Kreuger Beverage Company, Newark, N. J. Kreuger's Amber Ginger Ale. For Beverage. 38,333; Dec. 2.
Kreuger Beverage Company, Newark, N. J. Kreuger's Pale Dry Ginger Ale. For Beverage. 38,334; Dec. 2.
Kreuger Beverage Company, Newark, N. J. Kreuger's Root Beer. For Beverage. 38,335; Dec. 2.
Kreuger Beverage Company, Newark, N. J. Kreuger's Clear Cocoa. For Beverage. 38,336; Dec. 2.
Lantz Bros. Baking Co., St. Louis, Mo. Grandma's. For Cake. 38,377–9; Dec. 2.
Lucky Dutchman Malt Company. (See Perloff, Harry.)
Miller Brothers & Co., Marion, Ind. Quality Service. For Tissue Paper. 38,340; Dec. 2.
Miller Fred F., Chicago, Ill. Dead Line. For Powder for the Extermination of Insects. 38,341; Dec. 2.
Naivette, Inc., New York, N. Y. Naivette Pads. For Pads used in the Permanent Waving of Hair. 38,342; Dec. 2.
Norris, Inc., Atlanta, Ga. The Buccaneer Box. For Candies. 38,343; Dec. 2.
Packing and Marketing, Incorporated, San Francisco, Calif. Blue Diamond. For Honey. 38,344; Dec. 2.
Pelosi, Humbert, and Louis Pelosi, Philadelphia, Pa. Nek-f—Cough up 10¢ and Cough no More. For Cough Drops. 38,345; Dec. 2.
Perloff, Harry, doing business as Lucky Dutchman Malt Company, Philadelphia, Pa. Paters. For Malt Syrup. 38,346; Dec. 2.
Polefsky, Joseph S., doing business as Continental Pure Products Company, New York, N. Y. Dox. For Malt Syrups, Extracts, and Nonalcoholic Beverages. 38,347; Dec. 2.
Red-E-Koffe Company. (See Israel, Joshua.)
Ring-Rout, Inc., New Orleans, La. Ring-Rout. For Medicant for the Treatment of a Skin Affection. 38 348; Dec. 2.
Schlage Lock Company, San Francisco, Calif. A House of Schlage Locks. For Door Locks. 38,349; Dec. 2.
Scolding Locks Corporation, Appleton, Wis. Scoldy Bob. For Hairpins. 38,350; Dec. 2.
Service Service Corporation, Atlanta, Ga. O Boy. For Bread. 38,351; Dec. 2.
Strobeck, G. A., doing business as The G. A. Strobeck Company, Red Lion, Pa. Hi-Boy. For Cigars. 38,352; Dec. 2.
Ward Baking Company, New York, N. Y. Tip Top Twist Bread. For Bread. 38,353; Dec. 2.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS

Amperite Corporation, New York, N. Y. Dealers' Descriptive Price List. For Radio Device. 12,828; Dec. 2.
Arden, Elizabeth, Inc., doing business as Elizabeth Arden, New York, N. Y. Claim Your Share of Youth. For Cleansing Cream, Skin Tonic, Velva Cream, and Orange Skin Food. 12,829; Dec. 2.
Atomol Mfg. Co., New Haven, Conn. Atomol. For Concentrated Inhalant for the Treatment of Head Colds and Nasal Catarrh. 12,830; Dec. 2.
Deprez, George, Chicago, Ill. The Trick Marble Game. For Game Apparatus. 12,831; Dec. 2.
Heinz, H. J., Company, Pittsburgh, Pa. On Nippy Days in Carolina—Or Anywhere Else—What a Joyous Dish This is! For Heinz Tomato Ketchup. 12,832; Dec. 2.
Heinz, H. J., Company, Pittsburgh, Pa. Red, Luscious Tomatoes . . . Rich, Thick Cream . . . Spices so Delicate, So Flavorful. For Cream of Tomato Soup. 12,833; Dec. 2.
Martin Biscuit Company, Inc., Birmingham, Ala. Martin's Chocolate Chips. For a Food Product. 12,834; Dec. 2.
McKee, W. C., doing business as Pepso-Ginger Company, Columbus, Ga. Indigestion Ended or No Pay. For Indigestion Medicine. 12,835; Dec. 2.
Parke, Davis & Company, Detroit, Mich. Parke-Davis Milk of Magnesia. For Milk of Magnesia. 12,836–7; Dec. 2.
Pepso-Ginger Company. (See McKee, W. C.)
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Look Me Up If You're Out My Way . . . ." For Cigarettes. 12,838; Dec. 2.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Siesta. For Cigarettes. 12,839; Dec. 2.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Right Over the Fence. For Tobacco. 12,840; Dec. 2.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Precious!" For Cigarettes. 12,841; Dec. 2.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Vantage In. For Cigarettes. 12,842; Dec. 2.
Reynolds, R. J. Tobacco Company, Winston-Salem, N. C. Now For a Camel! For Cigarettes. 12,843; Dec. 2.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. En Route. For Cigarettes. 12,844; Dec. 2.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Pleasure Ahoy! For Cigarettes. 12,845; Dec. 2.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Score Another for Camel. For Cigarettes. 12,846; Dec. 2.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Why Fiddle Around. For Tobacco. 12,847; Dec. 2.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Get a Load of This . . . . For Tobacco. 12,848; Dec. 2.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Right Down my Alley. For Tobacco. 12,849; Dec. 2.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Threesome. For Cigarettes. 12,850; Dec. 2.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Something Borrowed. For Cigarettes. 12,851; Dec. 2.
Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Camels are Odds—On Favorites In Every Field . . . . There Isn't a cigarette . . . Anywhere—That Can Touch Them For Fragrance, For Mildness, For Downright Smoking Pleasure. For Cigarettes. 12,852; Dec. 2.
Soucheray, Henry C., St. Paul, Minn. Milk. For Milk. 12,853; Dec. 2.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Acme Cotton Products Co., Inc., New York, N. Y. Absorbent cotton. 306,520; Dec. 2. Class 44.
Aktiebolaget Nol-Tingstad, Gottenborg, Sweden. Fibre boards. 300,098; Dec. 2. Class 12.
Allen, Richard W., Chicago, Ill. Magazines. 307,126; Dec. 2. Class 38.
American Coolair Corporation. (See Glantzberg, Ernst, assignor.)
American Crayon Company, The, Sandusky, Ohio. Materials used in process for applying crayons to fabrics. 297,720; Dec. 2. Class 22.
American Fluresit Company, The, Cincinnati, Ohio. Mined raw material. 307,027; Dec. 2. Class 1.
American Gas Products Corporation, New York, N. Y. Gas-heated radiators and parts therefor. 306,803; Dec. 2. Class 34.
American Ideal Fruit Products Co., New Haven, Conn. Jelly-powder concentrate. 305,473; Dec. 2. Class 46.
Anstice, Josiah, & Co. Inc., Rochester, N. Y. Vegetable peelers, slicers, French-fry cutters, etc. 303,311; Dec. 2. Class 23.
Anzell, Anna S., doing business as Specialty Manufacturing Company, Brooklyn, N. Y. Mirrors. 299,544; Dec. 2. Class 32.
Aroc Sales Company. (See Weir, Ensley A.)
Aroma Incorporated, Detroit, Mich. Washing fluid. 304,988; Dec. 2. Class 4.
Ashco Corporation, St. Paul, Minn. Automobile heaters. 298,134; Dec. 2. Class 19.
Associated Motor Magazines. (See Faulkner, Wilbur M.)
Barnett, G. & H. Company, Philadelphia, Pa. Files and rasps. 306,590; Dec. 2. Class 23.
Bates, William H., doing business as Sunray Chemical Co., Columbus, Ohio. Sunburn lotion. 306,683; Dec. 2. Class 6.
Bayliss, Harry, Inc., Los Angeles, Calif. Metal fences. 281,252; Dec. 2. Class 13.
Beb Cleanser Company. (See Bresee, Bert E.)
Berzol Corporation, Long Island, N. Y. Fuel catalysts. 297,951; Dec. 2. Class 6.
Biddle Purchasing Co., New York, N. Y. Fly coils and fly ribbons. 304,796; Dec. 2. Class 50.
Blend-O Products Co., Los Angeles, Calif. Beverages. 297,406; Dec. 2. Class 45.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 307,249; Dec. 2. Class 42.
Böhme, H. Th., A. G., Chemnitz, Germany. Chemical dye aids. 306,684; Dec. 2. Class 6.
Böhme, H. Th., A. G., Chemnitz, Germany. Chemical dye aids. 306,686; Dec. 2. Class 6.
Bon-Dee Golf Ball Co., Detroit, Mich. Golf balls. 306,929–30; Dec. 2. Class 22.
Boulde Chemical Co. Inc., Utica, N. Y. Preparation for protecting seed against birds and animals. 306,339; Dec. 2. Class 6.
Boss Bolt and Nut Company, Chicago, Ill. Bolts, nuts, lag screws, etc. 298,373; Dec. 2. Class 13.
Bresee, Bert E., doing business as Beb Cleanser Company, Oneonta, N. Y. Dry-cleaning fluid. 304,485; Dec. 2. Class 4.
Bristol Seamless Ring Co. (See Kronstadt, Max.)
Brown Company, Portland, Me., and Berlin, N. H. Cellulose pulps. 306,555; Dec. 2. Class 1.
California Sea Food Company. (See Rex, M. A.)
Campbell Company, New York, N. Y. Cotton goods in the piece. 306,086; Dec. 2. Class 42.
Capital Wall Paper Company, The, Washington, D. C. Wall papers. 305,962; Dec. 2. Class 37.
Carborundum Company, The, Niagara Falls, N. Y. Blocks, bricks, tiles, etc. 300,012; Dec. 2. Class 12.
Cardinet Candy Company, Inc., Oakland, Calif. Candy. 307,199; Dec. 2. Class 46.
Carson Pirie Scott & Co., Chicago, Ill. Linen piece goods and table napkins, tablecloths, towels. 267,530; Dec. 2. Class 42.
Champion Shoe Machinery Company, St. Louis, Mo. Finishing machines, sewing machines, cutting machines, etc. 306,594; Dec. 2. Class 23.
Charlesteln, Julius, doing business as Premier Dental Products Co., Philadelphia, Pa. Scalers, burnishers, plastics, etc. 305,266; Dec. 2. Class 44.
Chase, Kenneth L., Boston, Mass. Automatic thread clearer for use with textile machinery. 305,961; Dec. 2. Class 23.
Chattanooga Implement & Mfg. Co., Chattanooga, Tenn. Andirons, hearth fenders, dog irons, etc. 298,014; Dec. 2. Class 13.
Chrysler Corporation, Detroit, Mich. Automobiles and their structural parts. 306,807; Dec. 2. Class 19.
Cincinnati Grinders Incorporated, Cincinnati, Ohio. Machine tools. 291,264; Dec. 2. Class 23.
Cliff, A. B., doing business as Racing Teal Ranch, Pasadena and Thermal, Calif. Fresh citrus fruits, fresh dates and grapes. 305,034; Dec. 2. Class 46.
Colorex Laboratories. (See Winkler, Newman D., D. D. S.)
Consolidated Tea Company, Inc., New York, N. Y. Canned fish. 306,261; Dec. 2. Class 46.
Corn Products Refining Company, New York, N. Y. Laundry starch. 306,596; Dec. 2. Class 6.
Cotter, R. E., Co., San Francisco, Calif. Canned fruits. 307,201; Dec. 2. Class 46.
Crispo & Sons, Inc., New York, N. Y. Fresh fruits, fresh melons. 306,943; Dec. 2. Class 46.
Culturist Publishing Company. (See Lang, Ernest.)
Da Costa Coffee Corporation, New York, N. Y. Maltless concentrates used in the preparation of soft drinks. 305,658; Dec. 2. Class 45.
Daniels Manufacturing Company, Rhinelander, Wis. Paper napkins and towels. 306,597; Dec. 2. Class 37.
Dart, Robert H., Sacramento, Calif. Fresh citrus and deciduous fruits; fresh melons. 305,037; Dec. 2. Class 46.
Davies, Theo. H., & Co. Ltd., Honolulu, Hawaii, and San Francisco, Calif. Canned vegetables. 306,944; Dec. 2. Class 46.
Davis Manufacturing Co., Davis, Calif. Earth moving and handling machinery. 298,228; Dec. 2. Class 23.
Davis, Samuel G., Woodbury, N. J. Plastic molding material. 303,366; Dec. 2. Class 12.
Dawson-Macdonald Co., Boston, Mass. Abrasives. 305,966; Dec. 2. Class 4.
Dayton Company, The, Minneapolis, Minn. Luggage. 298,797; Dec. 2. Class 3.
De Markoff, Alexandra, Inc., New York, N. Y. Cosmetics. 296,638; Dec. 2. Class 6.
Denham Oil Company, The, Indianapolis, Ind. Lubricating oil. 306,809; Dec. 2. Class 15.
Denk, Ralph G., doing business as Triplex Heating Specialty Co., Peru, Ind. Pump structures. 306,308; Dec. 2. Class 23.
Denocin Products Co. (See Walters, John W.)
Diamond Alkali Company, Pittsburgh, Pa. Chlorine. 305,517; Dec. 2. Class 6.
Diamond, Paul, doing business as Protektovest Knitting Co., Almonesson, N. J. Sleeveless sweater. 304,998; Dec. 2. Class 39.
Dixon, Joseph, Crucible Company, Jersey City, N. J. Pencils. 306,560; Dec. 2. Class 37.
Dixon, William, Incorporated, Newark, N. J. Pliers, engraving tools, files, and saws. 296,960; Dec. 2. Class 23.
Duowrite Stationery Company, Wichita, Kans. Combined writing paper and envelopes. 298,525; Dec. 2. Class 37.
Durrell Company. (See New Method Die & Cut-Out Co.)
Eckhart, William H., & Son, Hondo, Tex. Liniment. 306,433; Dec. 2. Class 6.
Eet-Rite Products Company, Fort Washington, Pa. Compound of grains, fruits, nuts, and vegetables. 304,756; Dec. 2. Class 46.
Eet-Rite Products Company, Fort Washington, Pa. Compound of grains, fruits, nuts, and vegetables. 304,758; Dec. 2. Class 46.
Eilers, Bertha, New York, N. Y. Garters, hose supporters, arm bands, etc. 305,164; Dec. 2. Class 39.
Elk Mills Fabrics Company, Elk Mills, Md. Piece goods. 288,518; Dec. 2. Class 42.
Enterprise Manufacturing Company, The, Akron, Ohio. Artificial bait. 306,733; Dec. 2. Class 22.
Farrington Manufacturing Company, Boston, Mass. Embossing and printing machines and parts thereof. 306,600; Dec. 2. Class 23.
Faulkner, Wilbur M., doing business as Associated Motor Magazines, Springfield, Ohio. Magazine. 306,887; Dec. 2. Class 38.
Felt, Al, doing business as Marilyn Specialty Shop, New York, N. Y. Corsets. 304,759; Dec. 2. Class 39.
Ferrer, B., Los Angeles, Calif. Wafers. 307,202; Dec. 2. Class 46.
Fey, A. W., Hazleton, Pa. Mayonnaise. 304,804; Dec. 2. Class 46.
Fisher, Wilbur H., Ottawa, Ill. Apparel devices. 306,436; Dec. 2. Class 44.
Flexlume Dixie Neon Sign Company, Houston, Tex. Electrically-illuminated signs. 305,968–9; Dec. 2. Class 21.
Francis, Idda, doing business as Oriental Herb Remedy Company, New York, N. Y. Astringents, astringent cerates, bleach and beauty creams, etc. 305,220; Dec. 2. Class 6.
Fresh Fruit Products. (See Haworth, Josephine E.)
Friend-Ullrich, Inc., Fort Smith, Ark. Fungicide, germicide, antiseptic, and bactericide. 307,317; Dec. 2. Class 6.
Gage Publishing Company, Inc., The, New York, N. Y. Periodical. 306,264; Dec. 2. Class 38.
Garfield, James L., Philadelphia, Pa. Card index. 302,680; Dec. 2. Class 37.
General Cigar Co., Inc., New York, N. Y. Cigars. 306,477; Dec. 2. Class 17.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2. 1907]

Glantzberg, Ernst, assignor to American Coolair Corporation, Jacksonville, Fla. Ventilating fans. 289,583; Dec. 2. Class 34.

Glanzstoff-Courtaulds G. m. b. H., Cologne-Merheim, Germany. Threads and yarns. 305,002–3; Dec. 2. Class 43.

Gleckner, W. W., & Sons Co., Canton, Pa. Waist belts, gloves, and mittens. 305,752; Dec. 2. Class 39.

Golding, Harry W., New York, N. Y. Mattresses, pillows, cushions. 306,999; Dec. 2. Class 32.

Graves-Turner Manufacturing Company, Atlanta, Ga. Cakes and candles. 304,659; Dec. 2. Class 46.

Greengard's Vanity Shop, Brooklyn, N. Y. Astringents, astringent cerates, bleach creams, etc. 304,404; Dec. 2. Class 6.

Grell, E. F., & Co., Inc., Seattle, Wash. Fresh deciduous fruits. 306,952; Dec. 2. Class 46.

Grennan Bakeries Inc., Chicago, Ill. Cake. 302,730; Dec. 2. Class 46.

Hagen, John, Overland, Mo. Lacquer. 306,889; Dec. 2. Class 16.

Hagler, Sam, doing business as Relgah Perfumers, New York, N. Y. Hair tonic, peroxide of hydrogen, cold cream, etc. 306,776; Dec. 2. Class 6.

Hair, Dagmar M., doing business as Mi King Chemical Co., Denver, Colo. Carbol fuchsin; toilet products, tablets, capsules, etc. 303,438; Dec. 2. Class 6.

Hamilton, M. B., Mfg. Co., The, Leavenworth, Kans. Gloves or mittens. 305,812; Dec. 2. Class 39.

Hanna Manufacturing Company, The, Athens, Ga. Baseball bats. 306,700; Dec. 2. Class 22.

Harrison, Richard C., doing business as Harrison & Company, Haverhill, Mass. Automobile polish. 306,334; Dec. 2. Class 16.

Harrison, Richard C., doing business as Harrison and Company, Haverhill, Mass. Cleaner. 306,335; Dec. 2. Class 4.

Haworth, Josephine E., doing business as Fresh Fruit Products, Chicago, Ill. Fruit products. 306,953; Dec. 2. Class 46.

Hayward, R. B., Company, Chicago, Ill. Wire and cable reels. 301,915; Dec. 2. Class 2.

Hazleton Baking Company, Hazleton, Pa. Doughnuts and cookies. 306,531; Dec. 2. Class 46.

Heller, Morris, doing business as The Venice Importing Co., Brooklyn, N. Y. Olive oil. 306,495; Dec. 2. Class 46.

Henry & Henry, Inc., Buffalo, N. Y. Flavoring syrups for maltless beverages. 306,815; Dec. 2. Class 45.

Hico Products Co., Incorporated, St. Louis, Mo. Maltless flavored powder for making soft drinks. 306,701; Dec. 2. Class 45.

Hobe, William W., doing business as Hobe Cie., New York, N. Y. Perfumes, face creams, rouges, etc. 291,125; Dec. 2. Class 6.

Holfelder, Carl, Nuremberg, Germany. Fresh and preserved sausage. 305,358; Dec. 2. Class 46.

Holman's Print Shop, Inc., Boston, Mass. Publication. 306,777; Dec. 2. Class 38.

Household Utilities Co., Chicago, Ill. Toilet preparations. 302,579; Dec. 2. Class 6.

Hulman & Co., Terre Haute, Ind. Tea, coffee, and cocoa. 306,267; Dec. 2. Class 46.

Hutches, Clarence F., San Antonio, Tex. Pecans. 304,725; Dec. 2. Class 46.

Hygienic Laboratories. (See Spencer, J. W.)

I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Fuel for pocket and table lighters. 305,903; Dec. 2. Class 6.

Iowa Chemical Company. (See Mueller, Charles E.)

Jelleff, Frank R., Inc., Washington, D. C. Hand bags and pocketbooks. 306,060; Dec. 2. Class 3.

Jelleff, Frank R., Inc., Washington, D. C. Coats, dresses, and frocks. 306,061; Dec. 2. Class 39.

Juillard-Cockcroft Corporation, Watsonville, Calif. Fruit juices. 305,709; Dec. 2. Class 45.

Karr, Charles, Company, Holland, Mich. Mattresses. 299,446; Dec. 2. Class 32.

Kresge Department Store Corporation, Newark, N. J. Sheets and pillowcases. 306,653; Dec. 2. Class 42.

Kress, S. H., & Co., New York, N. Y. Teaspoons, tablespoons, butter spreaders, butter knives, etc. 293,669; Dec. 2. Class 28.

Kress, S. H., & Co., New York, N. Y. Shoes and boudoir slippers, bathing suits, bloomers, etc. 304,619; Dec. 2. Class 34.

Kronstadt, Max, doing business as Bristol Seamless Ring Co., New York, N. Y. Finger rings. 306,497; Dec. 2. Class 28.

Lang, Ernest, doing business as Culturist Publishing Company, Los Angeles, Calif. Magazine. 307,150; Dec. 2. Class 38.

Lawrence, Wensley S., doing business as Lawrence Laboratories, Memphis, Tenn. Shampoos. 305,361; Dec. 2. Class 6.

Leindorf, Joseph P., New York, N. Y. Foods for birds. 305,917; Dec. 2. Class 46.

Les Parfums de Molyneux, Inc., New York, N. Y. Perfume, toilet waters, face lotions, etc. 306,706; Dec. 2. Class 6.

Long-Bell Lumber Company, The, Longview, Wash. Wood panels. 298,449; Dec. 2. Class 12.

Long Island Frozen Confection Company, Inc., Long Island City, N. Y. Chocolate-covered ice cream. 291,168–9; Dec. 2. Class 46.

Mackie Pine Oil Specialty Company, Covington, La. Cleaning preparation. 301,962–3; Dec. 2. Class 4.

Maka Laboratories, Oak Park, Ill. Eyewash. 307,210; Dec. 2. Class 6.

Mallinson, H. R., & Company, Inc., New York, N. Y. Silk piece goods. 298,450; Dec. 2. Class 42.

Manchester Real Estate and Manufacturing Company, Epping, N. H. Bricks and clay tiles. 305,488; Dec. 2. Class 12.

Marathon Shoe Co., Wausau, Wis. Shoes. 291,628; Dec. 2. Class 39.

Marilyn Specialty Shop. (See Felt, Al.)

Maternal Health Products, Inc., New York, N. Y. Deodorant pad. 306,275; Dec. 2. Class 44.

Maynes, Ramiro, doing business as Quirosan Laboratory, Chicago, Ill. Composition for treating pyorrhea. 307,212; Dec. 2. Class 6.

McDermont and Wall, Inc., Riverside, Calif. Fresh citrus fruits. 301,977; Dec. 2. Class 46.

McIlhenny Company, New Iberia, La. Pepper sauce. 304,778; Dec. 2. Class 46.

McMath, John N., Larchmont, N. Y. Skin cream, face powder, lip ointment, etc. 307,324; Dec. 2. Class 6.

McNeely Company, Philadelphia, Pa. Glazed kid. 286,357; Dec. 2. Class 1.

McSpadden, Donovan M., doing business as Parlor Putt Company, St. Louis, Mo. Parlor golf game. 306,722; Dec. 2. Class 22.

Mead Johnson & Company, Evansville, Ind. Specially-prepared food. 307,102; Dec. 2. Class 46.

Medart, Fred, Manufacturing Co., St. Louis, Mo. Steel lockers, shelving, and cabinets, box lockers, etc. 295,529; Dec. 2. Class 32.

Medart, Fred, Manufacturing Co., St. Louis, Mo. Gymnasium and playground apparatus. 304,731; Dec. 2. Class 22.

Metal Textile Corporation, West Orange, N. J. Metallic spongelike abrasive wads or pads. 298,543; Dec. 2. Class 4.

Meyer, Wm., Co., The, Chicago, Ill. Electrical hair dryer. 306,196; Dec. 2. Class 44.

Middlesboro Milling Company, Middlesboro, Ky. Wheat flour. 304,338; Dec. 2. Class 46.

Mi King Chemical Co. (See Hair, Dagmar M.)

Mi-La Company. (See Milam, John B., jr.)

Milam, John B., jr., doing business as Mi-La Company, Ruston, La. Cosmetic. 306,101; Dec. 2. Class 6.

Miller, I., & Sons, Incorporated, Long Island City, N. Y. Hosiery. 300,735; Dec. 2. Class 39.

Miller, I., & Sons, Incorporated, Long Island City, N. Y. Hosiery. 300,801; Dec. 2. Class 39.

Miller-Richardson Co. Inc., Lowville, N. Y. Cheese. 297,446; Dec. 2. Class 46.

Mittag & Volger, Incorporated, Park Ridge, N. J. Typewriter ribbons. 300,229; Dec. 2. Class 11.

Monocacy Valley Canning Company, Frederick, Md. Canned fruits and vegetables. 298,759; Dec. 2. Class 46.

Montee Publishing Co., Inc., Baltimore, Md. Magazine. 306,867; Dec. 2. Class 38.

Moorhead Knitting Co. Inc., Harrisburg, Pa. Men's hose. 301,280; Dec. 2. Class 39.

Mueller, Charles E., doing business as Iowa Chemical Company, Cedar Rapids, Iowa. Food preparation to be added to animal food. 305,412; Dec. 2. Class 46.

Muralo Company, Inc., The, New Brighton, N. Y. Painter's wall size. 306,413; Dec. 2. Class 16.

Mutual Rice Co. Inc., New York, N. Y. Rice, dried lentils, pea beans, lima beans, etc. 305,236; Dec. 2. Class 46.

National Electric Products Corporation, Pittsburgh, Pa. Switch boxes for electrical installations. 306,617; Dec. 2. Class 21.

Nestle-Lemur Company, The, New York, N. Y. Preparations for treating hair and for use in waving or curling hair. 306,898; Dec. 2. Class 6.

New Method Die & Cut-Out Co., Inc., doing business as Durrell Company, Cambridge, Mass. Animal pull toys, doll houses, toy soldiers, etc. 306,504; Dec. 2. Class 22.

North Dakota Mill and Elevator Association, doing business as State Mill and Elevator, Grand Forks, N. Dak. Feeds. 304,733; Dec. 2. Class 46.

Nyal Company, Detroit, Mich. Sanitary napkins. 306,959; Dec. 2. Class 44.

Oil-O-Chron Corporation of America, Wilmington, Del., and Boston, Mass. Electric switches. 305,724; Dec. 2. Class 21.

Omaha Cold Storage Company, Omaha, Nebr. Eggs. 305,286; Dec. 2. Class 46.

Oneida Community, Limited, Oneida, N. Y. Silver flatware and hollow ware. 306,830; Dec. 2. Class 28.

Oneida Community, Limited, Oneida, N. Y. Silver flatware and hollow ware. 306,832; Dec. 2. Class 28.

Oriental Herb Remedy Company. (See Francis, Idda.)

Ortegat, Adelaide, née Adelaide F. Lesa, Paris, France. Perfumes, face powders, toilet powders, etc. 307,282; Dec. 2. Class 6.

Ortegat, Adelaide, née Adelaide F. Lesa, Paris, France. Perfumes, face powders, toilet powders, etc. 307,284–6; Dec. 2. Class 6.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Pal Products Co. Inc., Brooklyn, N. Y. Soap powder. 305,453; Dec. 2. Class 4.

Palmer House Company, Chicago, Ill. Coffee and olives. 305,789; Dec. 2. Class 46.

Palnut Company, The, Irvington, N. J. Nut locks. 279,420–1; Dec. 2. Class 13.

Pantaz, Thomas, New York, N. Y. Hair pomade. 303,698; Dec. 2. Class 6.

Park, Clyde E., doing business as Park Chemical Company, Ottumwa, Iowa. Medicinal preparation. 305,537; Dec. 2. Class 6.

Parlor Putt Company. (See McSpadden, Donovan M.)

Pee Wee Golf Courses, Inc., Muskegon, Mich. Portable putting game. 306,199; Dec. 2. Class 22.

Pennrich & Company, Inc., New York, N. Y. Peat-moss products. 302,691; Dec. 2. Class 1.

Penryn Fruit Co., Penryn, Calif. Fresh deciduous fruits. 302,007; Dec. 2. Class 46.

Perma-Stain Company, The, Cleveland, Ohio. Shingles, wood roofing material, and wood siding material for buildings. 306,900; Dec. 2. Class 12.

Phi Sigma Society, Norman, Okla. Pins and keys. 306,835; Dec. 2. Class 28.

Phillips Petroleum Company, Bartlesville, Okla. House organ. 307,216; Dec. 2. Class 38.

Premier Dental Products Co. (See Charlestein, Julius.)

Priscilla Co., New York, N. Y. Fabric dyes. 306,574; Dec. 2. Class 6.

Protektovest Knitting Co. (See Diamond, Paul.)

Quigley Company, Inc., New York, N. Y. Plastic expansive joint-sealing compound. 305,539; Dec. 2. Class 12.

Quirosan Laboratory. (See Maynes, Ramiro.)

Racing Teal Ranch. (See Cliff, A. B.)

Ramsey, Edward J., doing business as Ramsey's "They Cannot Rip," New York, N. Y. Shoes. 302,746; Dec. 2. Class 39.

Rawle, M., Company, New York, N. Y. Mirrors. 306,662; Dec. 2. Class 32.

Relgah Perfumers. (See Hagler, Sam.)

Rex, M. A., doing business as California Sea Food Company, San Francisco, Calif. Canned sardines. 306,542; Dec. 2. Class 46.

Ries & Porter Co. Inc., doing business as Ries & Porter Co., Chicago, Ill. Vinegars, pickles, preserved olives, etc. 305,763; Dec. 2. Class 46.

Rockwood Manufacturing Company, The, Indianapolis, Ind. Combined pulley and belt power transmission and mounting. 305,584; Dec. 2. Class 23.

Roslinoid Manufacturing Co., East Boston, Mass. Sun glasses, goggles, and spectacles. 304,345; Dec. 2. Class 26.

Roth-Büchner Aktiengesellschaft, Berlin-Tempelhof, Germany. Cutlery. 271,828; Dec. 2. Class 23.

Ruby Canning Co., Ruby, S. C. Canned fruits, vegetables, and jams. 305,142; Dec. 2. Class 46.

Russeks Fifth Avenue Inc., New York, N. Y. Hats, shoes, slippers, etc. 305,908; Dec. 2. Class 39.

Russell Manufacturing Company, The, Middletown, Conn. Brake lining and belting. 303,259; Dec. 2. Class 35.

St. John Letter Co. Inc., The, New York, N. Y. Publication. 306,904; Dec. 2. Class 38.

Sasieni London, Ltd., New York, N. Y. Smokers' pipes. 306,245; Dec. 2. Class 8.

Schulman, Morris J., Inc., New York, N. Y. Hats. 305,832; Dec. 2. Class 39.

Sendlinger Optische Glaswerke Gesellschaft mit beschränkter Haftung, Berlin-Zehlendorf, Germany. Glass panes, glass water-level indicators, etc. 267,861; Dec. 2. Class 26.

Shimon, E. J., doing business as Wisconsin Poultry Farms Exchange, Milwaukee, Wis. Eggs and butter. 300,818; Dec. 2. Class 46.

Shoecraft Shop, Inc., New York, N. Y. Shoes. 305,911; Dec. 2. Class 39.

Sitterley, J. E., New York, N. Y. Publication. 307,062; Dec. 2. Class 38.

Smeaton, William D. H., Vincennes, Ind. Preparation for treatment of common eye ailments. 306,579; Dec. 2. Class 6.

Smith Agricultural Chemical Co., The, Columbus, Ohio. Plant food and fertilizer. 304,351; Dec. 2. Class 10.

Smith, Alexander, & Sons Carpet Company, Yonkers, N. Y. Wool carpets and wool rugs. 306,202; Dec. 2. Class 42.

Smith, V. R., doing business as V. R. Smith Olive Co., Lindsay, Calif. Canned olives. 306,973; Dec. 2. Class 46.

Societe Anonyme Etablissements Andre Gillier, Troyes, France. Textile fabrics. 298,596; Dec. 2. Class 42.

Solomon, Armstrong & Co., Ltd., Kingston, Jamaica. Perfumes, toilet water, and essential oil. 305,418; Dec. 2. Class 6.

Specialty Manufacturing Company. (See Anzell, Anna S.)

Spencer, J. W., doing business as Hygienic Laboratories, New Orleans, La. Antiseptic, germicidal, and therapeutic composition. 306,248; Dec. 2. Class 6.

Standard Brands Incorporated, Dover, Del., Cincinnati, Ohio, and New York, N. Y. Baking powder. 292,185; Dec. 2. Class 6.

Standard Brands Incorporated, New York, N. Y. Baking powder. 306,021; Dec. 2. Class 6.

Stanley Chemical Co. (See Wesolowski, Stanislaus M.)

State Mill and Elevator. (See North Dakota Mill and Elevator Association.)

Stout, Charles B., doing business as Washington Flour Mill, Washington, Mo. Wheat flour. 300,548; Dec. 2. Class 46.

Sunbeam Engineering Corporation, Mount Vernon, N. Y. Oil burners. 306,842; Dec. 2. Class 34.

Sunray Chemical Co. (See Bates, William H.)

Sunset Knitting Company, San Francisco, Calif. Bathing suits. 306,303; Dec. 2. Class 39.

Superior Chemical Company, Houston, Tex. Metal polish, cleaner for toilet bowls and bathtubs, etc. 305,419; Dec. 2. Class 4.

Tar Products Corporation, Providence, R. I. Insecticides and deodorants. 306,753; Dec. 2. Class 6.

Taylor & Caldwell, Inc., Walkerton, Va. Canned lima beans. 306,844; Dec. 2. Class 46.

Taylor & Williams, Incorporated, Louisville, Ky. Whiskey. 306,111; Dec. 2. Class 49.

Teeple, Lawrence R., Portland, Oreg. Electric switches. 305,732; Dec. 2. Class 21.

Tennessee Products Corporation, Nashville, Tenn. Chemical preparations. 306,580; Dec. 2. Class 6.

Terminal Products Co., Inc., New York, N. Y. Water heaters. 306,292; Dec. 2. Class 21.

Testrite Instrument Company, New York, N. Y. Portable adjustable supports. 306,621; Dec. 2. Class 26.

Testrite Instrument Company, New York, N. Y. Swingable base support for optical, etc., apparatus. 306,622; Dec. 2. Class 26.

Thompson's Malted Milk Co., Inc., Waukesha, Wis. Confectionery. 306,635; Dec. 2. Class 46.

Tide Water Oil Company, Bayonne, N. J., and New York, N. Y. Lubricating oils and greases. [illegible],979; Dec. 2. Class 15.

Timme, E. F., & Son, New York, N. Y. Pile fabrics in the piece. 305,736; Dec. 2. Class 42.

Townsend-Wulff, Inc., Long Island City, N. Y. Electric cigarette lighters. 304,896; Dec. 2. Class 21.

Trarieux, Jeanne, Paris, France. Hygienic lotion for massage. 303,667; Dec. 2. Class 6.

Trevorrow, Thomas, Culver City, Calif. Composition wall and floor material. 305,947; Dec. 2. Class 12.

Triner, Joseph, Company, Chicago, Ill. Moth exterminator. 306,976; Dec. 2. Class 6.

Triplex Heating Specialty Co. (See Denk, Ralph G.)

Twining-Scott, Los Angeles, Calif. Electric insulating compound. 290,802; Dec. 2. Class 21.

Ullman Manufacturing Company, The, Brooklyn, N. Y. Large toy crayons. 306,205; Dec. 2. Class 22.

Ulrich, Leo D., Louisville, Ky. Gasoline. 306,024; Dec. 2. Class 15.

Val Blatz Brewing Company, Milwaukee, Wis. Malt syrup. 305,298; Dec. 2. Class 46.

Val Company, Medford, Mass. Dry cleanser. 306,377; Dec. 2. Class 4.

Van Camp Sea Food Co. Inc., Terminal Island, Calif. Canned fish. 306,981–2; Dec. 2. Class 46.

Van Duzer, Richard, Los Angeles, Calif. Publications. 307,233; Dec. 2. Class 38.

Venice Importing Co., The. (See Heller, Morris.)

Victor Products Corporation, Winchester, Va. Rubber heels and soles. 299,420; Dec. 2. Class 39.

Vio-Ray Company, Kansas City, Mo. Article of manufacture used as a substitute for or in the place of ordinary window glass. 260,602–3; Dec. 2. Class 50.

Vio-Ray Company, Kansas City, Mo. Article of manufacture used as a substitute for or in the place of ordinary window glass. 260,606; Dec. 2. Class 50.

Voigt Company, Inc., St. Louis, Mo. Shampoo. 307,234; Dec. 2. Class 6.

Walker, P. E., doing business as P. E. Walker & Co., Holbrook, Oreg. Insecticides and fungicides. 300,593; Dec. 2. Class 6.

Walters, John W., doing business as Denocin Products Co., Indianapolis, Ind. Analgesic tablets and mouth wash. 305,914; Dec. 2. Class 6.

Warisse, Nick, Baking Company, Louisville, Ky. Bread. 303,455; Dec. 2. Class 46.

Washington Flour Mill. (See Stout, Charles B.)

Wayagamack Pulp & Paper Company, Limited, Three Rivers, Quebec, Canada. Kraft paper and pulp for making paper. 305,644; Dec. 2. Class 37.

Webb, C. B., Company, New York, N. Y. Bouncing balls. 306,113; Dec. 2. Class 22.

Webster, William G., Detroit, Mich. Game. 306,211; Dec. 2. Class 22.

Weinheimer, Carl M., Buffalo, N. Y. Refrigerators. 307,191; Dec. 2. Class 31.

Weir, Ensley A., doing business as Aroc Sales Company, Worcester, Mass. Finger-nail polisher and buffer. 306,252; Dec. 2. Class 44.

Wesolowski, Stanislaus M, doing business as Stanley Chemical Co., Detroit, Mich. Cleaning preparation having incidental bleaching properties. 306,471; Dec. 2. Class 4.

White Luggage Co., Inc., New York, N. Y. Luggage. 305,300; Dec. 2. Class 3.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

White Tar Company of New Jersey, Inc., The, Kearny, N. J. Insecticides. 306,379; Dec. 2. Class 6.
Whitney-Eckstein Seed Co., Buffalo, N. Y. Clover and grass seeds and mixtures thereof. 305,427; Dec. 2. Class 1.
Wiebusch & Hilger, Limited, New York, N. Y. Safety-razor blades. 304,226; Dec. 2. Class 23.
Winkler, Newman D., D. D. S., doing business as Colorex Laboratories, New York, N. Y. Paint preparation for coloring photographic films and plates. 298,296; Dec. 2. Class 16.
Wires, John A., Chicago, Ill. Liquid lacquer surface dressing. 298,966; Dec. 2. Class 16.
Wisconsin Poultry Farms Exchange. (See Shimon, E. J.)

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Farmers Elevator Service Company. 277,925; Dec. 2; Serial No. 303,846; published Sept. 23, 1930.
Coal. Royal Coal Co. 278,085; Dec. 2; Serial No. 278,556; published Sept. 16, 1930.
Coal. West Virginia Coal & Coke Corp. 277,986; Dec. 2; Serial No. 303,966; published Sept. 16, 1930.
Earth materials, Diatomaceous-. Dicalite Company. 277,916; Dec. 2; Serial No. 302,133; published Sept. 23, 1930.
Leather. Beardmore & Co. 277,924; Dec. 2; Serial No. 304,091; published Sept. 16, 1930.
Leather. Jullman Salz & Co. 35,766; renewed Jan. 15, 1931.
Packages or baskets, Prepared gift. Savoy Park Shop, Inc. 277,987; Dec. 2; Serial No. 301,299; published Sept. 23, 1930.
Pelts. American National Fox and Fur Breeders Association. 27[illegible]4; Dec. 2; Serial No. 302,522; published Sept. [illegible], 1930.
Seed, Grass. Holbrook Grocery Co. 81,273; renewed Mar. 21, 1931.

CLASS 2

Bottle containers, Heat-insulated. Thermodor Company. 277,995; Dec. 2; Serial No. 302,917; published Sept. 23, 1930.
Boxes, Letter or post-office. Yale and Towne Mfg. Co. 277,990; Dec. 2; Serial No. 304,029; published Sept. 16, 1930.
Boxes, Paperboard. Hinde & Dauch Paper Company. 278,097; Dec. 2; Serial No. 287,661; published Sept. 16, 1930.
Tubes, bottles, and jars, Collapsible. Sun Tube Corporation. 277,992; Dec. 2; Serial No. 303,664; published Sept. 16, 1930.

CLASS 3

Bags, Ladies' hand. Max Brill's Sons, Inc. 277,909; Dec. 2; Serial No. 303,738; published Sept. 16, 1930.
Boxes, suitcases, and hand bags, Leather hat. Knox Hat Company. 278,084; Dec. 2; Serial No. 279,659; published Sept. 23, 1930.
Compact cases, bill folds, portfolios, etc. C. J. Butterfield. 277,921–3; Dec. 2; Serial Nos. 304,230–2; published Sept. 16, 1930.
Wallets, Leather, Independent Druggists' Alliance Distributing Co. 277,985; Dec. 2; Serial No. 303,889; published Sept. 23, 1930.

CLASS 4

Polishes, dressings and creams, Shoe. National Shoe Polish Manufacturing Company. 81,351; renewed Mar. 28, 1931.

CLASS 5

Adhesive paste. Independent Druggists' Alliance Distributing Co. 277,984; Dec. 2; Serial No. 303,891; published Sept. 23, 1930.
Solution for gluing leather on leather. H. Hagemeier. 277,915; Dec. 2; Serial No. 302,508; published Sept. 16, 1930.

CLASS 6

Acid, sodium alginate, ammonium alginate, etc., Alginic. Kelco Company. 277,972; Dec. 2; Serial No. 300,350; published Sept. 9, 1930.
Anesthetics. Les Pansements Brevetes Corbiere. 278,012; Dec. 2; Serial No. 300,729; published Sept. 16, 1930.
Antiseptic and disinfectant. Farbenfabriken of Elberfeld Company. 81,387; renewed Apr. 4, 1931.
Antiseptic vaginal suppositories. F. S. Holmes. 278,055; Dec. 2; Serial No. 303,475; published Aug. 26, 1930.
Aspirin, boric acid, bay rum, etc. Baltimore Drug Company. 278,086; Dec. 2; Serial No. 292,573; published Sept. 16, 1930.
Astringents, astringent cerates, bleach creams, etc. W. L. Hayes. 278,015; Dec. 2; Serial No. 300,412; published Sept. 9, 1930.
Bismuth preparation. Abbott Laboratories. 277,960; Dec. 2; Serial No. 303,560; published Sept. 2, 1930.
Catnip, catnip preparations, and catnip balls. W. E. Smith. 80,293; renewed Nov. 29, 1930.
Chemical. W. A. Fitch Inc. 278,034; Dec. 2; Serial No. 296,414; published Sept. 9, 1930.
Chemical dye aids. H. Th. Böhme A. G. 277,937; Dec. 2; Serial No. 303,626; published Sept. 16, 1930.
Chemical preparations, Various. Watson-Park Company. 277,935; Dec. 2; Serial No. 303,928; published Sept. 16, 1930.
Chemicals, Fire-extinguishing. Du-Gas Fire Extinguisher Corporation. 278,057; Dec. 2; Serial No. 303,504; published Sept. 2, 1930.
Cleaning compound. E. I. du Pont de Nemours and Company. 277,945; Dec. 2; Serial No. 302,676; published Sept. 16, 1930.
Cleanser containing alcohol, Liquid skin. L. Di Salvo. 278,042; Dec. 2; Serial No. 302,770; published Aug. 26, 1930.
Cod-liver-oil emulsion. Upjohn Company. 278,056; Dec. 2; Serial No. 303,496; published Aug. 26, 1930.
Cosmetics. E. M. Lawrence. 278,061; Dec. 2; Serial No. 301,468; published Sept. 2, 1930.
Creams, emollients, skin balms, etc., Cleansing. Kathleen Clifford, Ltd. 277,998; Dec. 2; Serial No. 295,833; published Sept. 23, 1930.
Creams, Face. Elizabeth Marie, Inc. 277,978; Dec. 2; Serial No. 299,962; published Aug. 26, 1930.
Dental cream. Colgate-Palmolive-Peet Company. 278,048; Dec. 2; Serial No. 303,161; published Sept. 9, 1930.
Deodorizer. Apex Products Corporation. 278,046; Dec. 2; Serial No. 303,148; published Sept. 9, 1930.
Disinfectant deodorizer, Liquid. Odorless Disinfectants, Inc. 277,929; Dec. 2; Serial No. 304,062; published Sept. 23, 1930.
Disinfectant, Vaporizing dust. Farmaide Products Co. 277,920; Dec. 2; Serial No. 301,020; published Sept. 9, 1930.
Diureticum. Farbenfabriken of Elberfeld Co. 36,018; renewed Mar. 5, 1931.
Douche powders and antiseptic preparations. Sani-Douche Co. 277,947; Dec. 2; Serial No. 302,445; published Sept. 16, 1930.
Dye for furs, Vegetable. American Dyewood Company. 278,053; Dec. 2; Serial No. 303,363; published Aug. 26, 1930.
Dyeing processes, Intermediate for. E. I. du Pont de Nemours and Company. 277,939; Dec. 2; Serial No. 303,324; published Sept. 9, 1930.
Dyes and dyestuffs. E. I. du Pont de Nemours and Company. 277,938; Dec. 2; Serial No. 303,325; published Sept. 9, 1930.
Dyes and dyestuffs. E. I. du Pont de Nemours and Company. 277,941; Dec. 2; Serial No. 303,171; published Sept. 9, 1930.
Fat liquor for use on furs and hides. American Dyewood Company. 278,052; Dec. 2; Serial No. 303,362; published Aug. 26, 1930.
Fluid, Hair-waving. J. Willett. 278,096; Dec. 2; Serial No. 287,685; published Sept. 16, 1930.
Incense. A. W. O'Keeffe. 278,008; Dec. 2; Serial No. 294,235; published Sept. 9, 1930.
Ink eradicator. Keuffel & Esser Company. 278,139; Dec. 2.
Kelp, Dried and powdered. Kelco Company. 277,971; Dec. 2; Serial No. 300,351; published Sept. 9, 1930.
Liniment. Hazol Laboratories. 278,040; Dec. 2; Serial No. 302,731; published Aug. 26, 1930.
Liquid inhalent for colds. Sunshine Pharmaceutical Co. Inc. 278,111; Dec. 2.
Lotion, talcum powder, Lavender shaving. Sears, Roebuck and Co. 278,038; Dec. 2; Serial No. 302,043; published Sept. 2, 1930.
Medical compounds. W. D. Duncan. 36,131; renewed Mar. 26, 1931.
Medicinal and pharmaceutical preparations. California Medicinal Wine Co. 278,060; Dec. 2; Serial No. 301,572; published Sept. 9, 1930.
Medicinal cordial. Palisade Manufacturing Co. 81,166; renewed Mar. 7, 1931.
Medicinal preparation. Calco Chemical Company. 277,930–3; Dec. 2; Serial Nos. 303,994–7; published Sept. 9, 1930.
Medicinal preparation. Calco Chemical Company. 277,934; Dec. 2; Serial No. 303,993; published Sept. 16, 1930.
Medicinal preparation. Western Pharmacal Company. 278,090; Dec. 2; Serial No. 289,778; published Sept. 23, 1930.
Medicinal preparations. G. M. Carboni. 277,946; Dec. 2; Serial No. 302,625; published Sept. 9, 1930.
Medicine. Huxley Laboratories, Inc. 278,028; Dec. 2; Serial No. 298,103; published Sept. 2, 1930.

Medicine. Ru-Ma-Nox Medicine Co. 278,081; Dec. 2; Serial No. 283,417; published Sept. 16, 1930.
Medicine, Liquid. E. White. 278,133; Dec. 2.
Medicine, Proprietary. Oxyborate Company. 277,918; Dec. 2; Serial No. 301,201; published Sept. 16, 1930.
Oil or liniment for use in treating sprains, etc. G. A. Seeley. 278,058; Dec. 2; Serial No. 301,714; published Aug. 26, 1930.
Ointment, antiseptics, nasal spray, etc., Skin. Staniform Limited. 278,093; Dec. 2; Serial No. 288,255; published Sept. 16, 1930.
Ointment, Rubbing. Mevol Chemical Company. 277,942; Dec. 2; Serial No. 303,032; published Sept. 16, 1930.
Ointment, Skin. M. J. Maas. 277,959; Dec. 2; Serial No. 303,607; published Sept. 9, 1930.
Pastes, Hair. I. Schmidt. 278,065; Dec. 2; Serial No. 301,464; published Sept. 9, 1930.
Perfumery goods. Ste. Anonyme Française Redfern. 278,027; Dec. 2; Serial No. 298,552; published Sept. 2, 1930.
Perfumes. Compact Perfume Inc. 278,044; Dec. 2; Serial No. 302,995; published Aug. 26, 1930.
Perfumes. Societe Les Perfums Gueneaux. 278,006; Dec. 2; Serial No. 294,692; published Sept. 16, 1930.
Perfumes, bath salts, toilet water, face powders, lip sticks, and face lotions. Henri Bendel, Inc. 278,116; Dec. 2.
Perfumes, powder, sachet, rouge, etc. Hirschberg, Schutz & Co. 277,901; Dec. 2; Serial No. 303,535; published Sept. 9, 1930.
Pharmaceutical agent. Board of Trustees of the Leland Stanford Junior University. 278,047; Dec. 2; Serial No. 303,153; published Aug. 26, 1930.
Powder, Alkaline. E. M. Pharmacal Company. 278,029; Dec. 2; Serial No. 297,813; published Sept. 23, 1930.
Powder, Talc. Colgate-Palmolive-Peet Company. 278,049; Dec. 2; Serial No. 303,162; published Aug. 26, 1930.
Preparation for headache, neuralgia, etc. B. M. Dixon. 277,948; Dec. 2; Serial No. 301,861; published Sept. 16, 1930.
Preparation for treating corns. F. E. Schmidt. 278,099; Dec. 2; Serial No. 286,596; published Sept. 16, 1930.
Preparation usable as an external antiseptic coating. Ex-Cel-O-Line Products Co. 278,098; Dec. 2; Serial No. 286 835; published Sept. 9, 1930.
Preparations for purifying liquids. N. V. Standard Water Maatschappij. 278,016–17; Dec. 2; Serial Nos. 300,362–3; published Aug. 26, 1930.
Preserving composition, Egg-. C. C. Alexander. 277,917; Dec. 2; Serial No. 301,770; published Sept. 23, 1930.
Remedies for certain diseases. H. L. True. 79,453; renewed Sept. 6, 1930.
Salt. Carey Salt Co. 278,007; Dec. 2; Serial No. 294,572; published Sept. 16, 1930.
Salt, Mulkey Salt Company. 277,936; Dec. 2; Serial No. 303,917; published Sept. 16, 1930.
Salt, Cheese-dissolving. Chemische Fabrik Joh. A. Benckiser G. m. b. H. 278,043; Dec. 2; Serial No. 302,992; published Sept. 9, 1930.
Salve. P. Jacobs. 277,919; Dec. 2; Serial No. 301,111; published Sept. 16, 1930.
Salve. A. J. Walker. 278,064; Dec. 2; Serial No. 301,081; published Aug. 19, 1930.
Sedative and hypnotic. Farbenfabriken of Elberfeld Company. 81,136; renewed Mar. 7, 1931.
Soldering solution. Y. Habif. 277,943; Dec. 2; Serial No. 303,026; published Sept. 16, 1930.
Solution, Permanent-wave. L. P. Bonneau. 278,041; Dec. 2; Serial No. 302,766; published Sept. 2, 1930.
Tint, Lip. F. J. Beaurline. 278,002; Dec. 2; Serial No. 295,147; published Sept. 2, 1930.
Toilet preparations. W. T. Paquin. 278,031; Dec. 2; Serial No. 297,377; published Aug. 26, 1930.
Toilet preparations. Plough, Inc. 278,021; Dec. 2; Serial No. 299,336; published Sept. 9, 1930.
Tonic and blood purifier. P. J. Simashevsky. 278,010; Dec. 2; Serial No. 300,988; published Aug. 26, 1930.
Tonic and blood purifier, General. A. G. Fagras. 277,940; Dec. 2; Serial No. 303,174; published Sept. 16, 1930.
Tonic, Hair. L. Hirtzel. 278,062; Dec. 2; Serial No. 301,440; published Aug. 26, 1930.
Tonic, Liquid general. Bach Laboratories, Inc. 277,944; Dec. 2; Serial No. 302,848; published Sept. 9, 1930.
Tonics, Hair. P. J. Happ. 278,100; Dec. 2; Serial No. 286,327; published Sept. 9, 1930.

CLASS 8

Pipes, Tobacco-smoking. Hirschl & Bendheim. 277,999; Dec. 2; Serial No. 295,676; published Sept. 16, 1930.

CLASS 11

Carbon paper and typewriter ribbons. Dorsey Printing Co. 79,194; renewed Aug. 16, 1930.

CLASS 12

Roofing and building paper. Ruberoid Co. 278,127; Dec. 2.
Roofings, Prepared rubber. Ford Manufacturing Company. 80,275; renewed Nov. 29, 1930.
Stairway, Movable. F. E. Bessler. 80,825; renewed Feb. 7, 1931.
Thermoinsulating material. Gebrüder Mayer Komm.-Ges. 278,009; Dec. 2; Serial No. 293,039; published Sept. 9, 1930.

CLASS 13

Cistern rings and covers, well casings, and fixed hog waterers. Dempster Mill Manufacturing Company. 277,881; Dec. 2; Serial No. 303,468; published Sept. 16, 1930.
Fencing, Wire. Pittsburgh Steel Company. 277,988; Dec. 2; Serial No. 304,343; published Sept. 23, 1930.
Hardware holders. B. Dombcik. 278,087; Dec. 2; Serial No. 290,505; published Sept. 16, 1930.
Metal drains. G. Walton Busch & Sons. 277,907; Dec. 2; Serial No. 303,686; published Sept. 23, 1930.
Rivets. Bendix Service Corporation. 277,891; Dec. 2; Serial No. 304,270; published Sept. 23, 1930.
Wire fence. Colorado Fuel and Iron Company. 278,130; Dec. 2.

CLASS 14

Metal, Antifriction and bearing. Smith-Courtney Company. 35,586; renewed Dec. 11, 1930.
Paints and painters' supplies. Patton Paint Company. 35,818; renewed Jan. 22, 1931.

CLASS 15

Kerosene. Texas Company. 80,879; renewed Feb. 7, 1931.
Kerosene. Texas Company. 81,179; renewed Mar. 7, 1931.
Oils and greases. Indian Refining Company. 278,122; Dec. 2.
Oils, Lubricating. Tide Water Oil Company. 80,390; renewed Dec. 13, 1930.
Oils, Lubricating. Union Oil Company of California. 278,104; Dec. 2; Serial No. 268,716; published Sept. 16, 1930.

CLASS 16

Paint product. F. H. Byrne. 278,103; Dec. 2; Serial No. 300,167; published Sept. 16, 1930.
Paint, Ready-mixed. Patton Paint Company. 81,228; renewed Mar. 14, 1931.
Painters' materials. Denny, Hilborn & Rosenbach (The White Company). 80,581; renewed Jan. 10, 1931.
Paints, Ready-mixed. Rinald Bros. 80,546; renewed Jan. 3, 1931.
Turpentine substitute consisting of benzin. Texas Company. 80,961; renewed Feb. 14, 1931.

CLASS 17

Cigars. House of Crane, Inc. 278,132; Dec. 2.
Cigars. Justin Seubert, Inc. 79,303; renewed Aug. 23, 1930.

CLASS 19

Antiglare shields. O. W. Muenster. 277,896; Dec. 2; Serial No. 304,104; published Sept. 23, 1930.
Flying machines. R. M. Thomson. 278,094; Dec. 2; Serial No. 287,951; published Sept. 23, 1930.
Slip covers, Automobile. Auto-Matic Seat Cover Corporation. 278,001; Dec. 2; Serial No. 295,246; published Sept. 16, 1930.

CLASS 21

Batteries, Storage. Monark Battery Company. 277,906; Dec. 2; Serial No. 303,696; published Sept. 16, 1930.
Batteries, Storage. White Star Refining Company. 277,900; Dec. 2; Serial No. 303,930; published Sept. 16, 1930.
Condensers, Electric. Sprague Specialties Company. 277,908; Dec. 2; Serial No. 303,602; published Sept. 16, 1930.
Electric-fan protectors. E. K. Cook. 278,109; Dec. 2.
Fans, Electric. American Propeller Company. 277,882; Dec. 2; Serial No. 303,248; published Sept. 16, 1930.
Insulating compounds, Electrical. Mica Insulator Company. 277,883; Dec. 2; Serial No. 303,065; published Sept. 16, 1930.
Radio receiving sets. Gray & Danielson Mfg. Co. 277,884; Dec. 2; Serial No. 303,024; published Sept. 16, 1930.
Radio receiving sets, vacuum or electron tubes, and radio-speakers. Columbia Radio Corporation. 277,890; Dec. 2; Serial No. 304,315; published Sept. 16, 1930.
Radiotubes and television tubes. F. A. Schiller, Inc. 277,892; Dec. 2; Serial No. 304,215; published Sept. 16, 1930.
Telephone sets. Kellogg Switchboard & Supply Co. 277,970; Dec. 2; Serial No. 300,352; published Sept. 16, 1930.
Vacuum cleaners, Domestic electric. Clarke Sanding Machine Company. 278,108; Dec. 2.
Wires and cables for electrical use. National Electric Products Corporation. 278,110; Dec. 2.

CLASS 22

Balls and golf clubs, Golf. Professional Golfers' Association of America. 278,036; Dec. 2; Serial No. 296,197; published Sept. 23, 1930.
Balls, Golf. Howard Lux Company. 277,951; Dec. 2; Serial No. 301,108; published Sept. 16, 1930.
Balls, Golf. Miller & West, Inc. 277,950; Dec. 2; Serial No. 301,487; published Sept. 23, 1930.
Balls, Practice golf. M. Fiedler. 278,102; Dec. 2; Serial No. 285,448; published Sept. 16, 1930.

Balls, Rubber play. Independent Druggists' Alliance Distributing Co. 277,902; Dec. 2; Serial No. 303,897; published Sept. 23, 1930.
Fish lures. Wright & McGill Company. 278,080; Dec. 2; Serial No. 283,639; published Sept. 23, 1930.
Fishing lines, hooks, reels, etc. Adolph Blaich, Inc. 278,067; Dec. 2; Serial No. 304,532; published Sept. 23, 1930.
Game boards. Dice-Count, Inc. 278,068; Dec. 2; Serial No. 304,369; published Sept. 16, 1930.
Golf clubs. Schavolite Golf Corporation. 278,066; Dec. 2; Serial No. 304,583; published Sept. 23, 1930.
Golf courses and parts therefor. Miniature Golf Courses, Inc. 278,077; Dec. 2; Serial No. 303,541; published Sept. 16, 1930.
Gut strings. Johnson Suture Corporation. 278,134; Dec. 2.
Radio receiving apparatus. Pilot Radio & Tube Corporation. 278,088; Dec. 2; Serial No. 290,322; published Sept. 16, 1930.
Toys and implements for exercises and sports. C. Kuramochi. 277,969; Dec. 2; Serial No. 302,636; published Sept. 16, 1930.

CLASS 23

Cloth-conditioning apparatus. Parks & Woolson Machine Company. 277,981; Dec. 2; Serial No. 299,618; published Sept. 23, 1930.
Drills. Whitman & Barnes, Inc. 278,039; Dec. 2; Serial No. 302,226; published Sept. 16, 1930.
Fire extinguishers, Stationary automatic. International Fire Equipment Corporation. 278,124; Dec. 2.
Knives of base metal and bone and imitation-bone handles for knives, Bone handle. Novelty Cutlery Company. 278,112; Dec. 2.
Knives, scythes, axes, etc. North Wayne Tool Company. 278,101; Dec. 2; Serial No. 286,380; published Sept. 23, 1930.
Machines. Praktische Maschinen, G. m. b. H. 278,059; Dec. 2; Serial No. 304,144; published Sept. 16, 1930.
Razor blades. International Safety Razor Corp. 277,954; Dec. 2; Serial No. 304,144; published Sept. 16, 1930.
Saws, Fret. J. N. Eberle & Cie. Aktiengesellschaft. 278,037; Dec. 2; Serial No. 296,177; published Sept. 23, 1930.
Vehicular machine, Unitary. Swigert, Hart & Yett, Inc. 277,952; Dec. 2; Serial No. 304,222; published Sept. 16, 1930.
Windmills and parts thereof, well-drilling machinery, etc. Dempster Mill Manufacturing Company. 278,054; Dec. 2; Serial No. 303,467; published Sept. 23, 1930.
Wrenches. Walworth Company. 277,955; Dec. 2; Serial No. 304,079; published Sept. 16, 1930.

CLASS 24

Ironer. Sears, Roebuck and Co. 277,885; Dec. 2; Serial No. 302,488; published Sept. 16, 1930.
Laundry machinery. Lovell Manufacturing Company. 36,237; renewed Apr. 9, 1931.

CLASS 25

Door fasts, latches, transom catches, etc. Yale and Towne Mfg. Co. 277,903; Dec. 2; Serial No. 303,792; published Sept. 16, 1930.

CLASS 26

Binoculars and glasses, Prism. P. E. Valette et Cie. 278,004; Dec. 2; Serial No. 294,822; published Sept. 16, 1930.
Lenses. Optical Service Corporation. 278,082; Dec. 2; Serial No. 281,744; published Sept. 23, 1930.
Thermostats. Electro-Master Company. 278,092; Dec. 2; Serial No. 289,452; published Sept. 16, 1930.

CLASS 27

Watches, watch movements, watch dials, and watchcases. G. Ducommun. 79,196; renewed Aug. 16, 1930.

CLASS 28

Bracelets, straps, attachments, Watch. Pontiac Company. 277,905; Dec. 2; Serial No. 303,725; published Sept. 16, 1930.
Jewelry. Kessler Brothers. 278,125; Dec. 2.
Lockets. Bliss Brothers Company. 79,811; renewed Oct. 11, 1930.
Rings, and mountings therefor, Finger. Benjamin & Edward J. Gross Co. 278,118; Dec. 2.
Silver, flatware. Oneida Community, Limited. 278,126; Dec. 2.

CLASS 31

Filter cloths, cotton discs, filter bags, etc. P. J. Reeve. 278,070; Dec. 2; Serial No. 304,250; published Sept. 23, 1930.
Refrigerators, Food-preserving receptacles for. Republic Stamping & Enameling Co. 277,949; Dec. 2; Serial No. 302,187; published Sept. 16, 1930.

CLASS 32

Furniture. P. Strauss. 278,063; Dec. 2; Serial No. 301,214; published Sept. 16, 1930.
Mattresses. S. Karpen & Bros. 277,975; Dec. 2; Serial No. 300,202; published Sept. 16, 1930.
Tables. Kiel Furniture Co. 277,956; Dec. 2; Serial No. 303,909; published Sept. 23, 1930.
Tables, mirror frames, tea carts, etc., Coffee. Milano Furniture Co. 278,005; Dec. 2; Serial No. 294,817; published Sept. 16, 1930.
Trays and cabinets, Steel filing. Globe-Wernicke Co. 277,953; Dec. 2; Serial No. 304,196; published Sept. 16, 1930.

CLASS 34

Boiler and boiler auxiliaries. Steam and Combustion Company. 277,994; Dec. 2; Serial No. 303,221; published Sept. 16, 1930.
Boilers, House-heating. Pacific Steel Boiler Corporation. 277,989; Dec. 2; Serial No. 304,212; published Sept. 23, 1930.
Heaters and their structural parts, Water. Cleveland Heater Company. 277,982; Dec. 2; Serial No. 299,554; published Sept. 16, 1930.
Heaters, heating systems, central house-heating units, etc., Water. Cleveland Heater Company. 277,996; Dec. 2; Serial No. 301,843; published Sept. 16, 1930.
Heaters, heating systems, central house-heating units, etc., Water. Cleveland Heater Company. 278,018–20; Dec. 2; Serial Nos. 299,373–5; published Sept. 16, 1930.
Heating apparatus. Richmond Stove Company. 35,986; renewed Feb. 26, 1931.
Ignition and control devices. Gas-range burner. Patrol Valve Company. 277,993; Dec. 2; Serial No. 303,383; published Sept. 16, 1930.
Ranges, stoves, and heaters, Gas. Holbrook, Merrill & Stetson, Inc. 277,997; Dec. 2; Serial No. 301,638; published Sept. 16, 1930.
Stokers, their parts and attachments, Automatic. Delta Company. 277,991; Dec. 2; Serial No. 303,802; published Sept. 23, 1930.
Ventilator, blowers, and fans. Hartzell Industries, Inc. 278,022; Dec. 2; Serial No. 298,993; published Sept. 23, 1930.

CLASS 35

Belting, Leather. Western Leather Belting Company. 278,121; Dec. 2.
Packing, Machinery. Robert A. Keasbey Company. 79,839; renewed Oct. 11, 1930.
Piston rings. Perfect Circle Co. 278,051; Dec. 2; Serial No. 303,253; published Sept. 16, 1930.
Tires and inner tubes. Kelly-Springfield Tire Company. 277,958; Dec. 2; Serial No. 303,851; published Sept. 23, 1930.
Tires, Inner tubes, and tire and tube repair patches. White Star Refining Company. 278,050; Dec. 2; Serial No. 303,238; published Sept. 23, 1930.

CLASS 36

Pianos and piano players. Wurtlitzer Grand Piano Company. 278,105; Dec. 2; Serial No. 251,706; published Sept. 16, 1930.
Pianos and piano players, Self-playing. Welte-Mignon Piano Corporation. 278,136; Dec. 2.
Strings for banjos, etc. Gibson Musical String Company. 278,107; Dec. 2.

CLASS 37

Paper and envelopes, Writing. Montag Bros. Inc. 277,894; Dec. 2; Serial No. 304,157; published Sept. 16, 1930.
Paper and stationery. Praktische Maschinen, G. m. b. H. 277,887; Dec. 2; Serial No. 301,695; published Sept. 23, 1930.
Paper, Enamel book. Wilcox-Mosher-Leffholm Company. 278,106; Dec. 2.
Paper, folded or unfolded, envelopes, photograph inclosures. American Paper Goods Company. 80,968; renewed Feb. 21, 1931.
Paper, Wax-coated. Coated Paper Products Company. 277,898; Dec. 2; Serial No. 304,039; published Sept. 16, 1930.
Paper, Writing. Riegel Paper Corporation. 277,895; Dec. 2; Serial No. 304,107; published Sept. 16, 1930.
Pencils, blackboard pencils, penholders, etc., Lead. J. S. Staedtler, Inc. 277,899; Dec. 2; Serial No. 303,935; published Sept. 16, 1930.

CLASS 38

Catalogues. National Bellas Hess Co. 277,901; Dec. 2; Serial No. 303,918; published Sept. 16, 1930.
Magazine. Bakers' Helper Co. 278,024; Dec. 2; Serial No. 298,925; published Sept. 23, 1930.
Magazine. Curtis Publishing Company. 81,055; renewed Feb. 28, 1931.
Newspaper. Penton Publishing Company. 277,897; Dec. 2; Serial No. 304,088; published Sept. 16, 1930.
Periodical. P. P. Travers. 277,889; Dec. 2; Serial No. 304,433; published Sept. 23, 1930.
Publication. M. A. Sarnes. 277,886; Dec. 2; Serial No. 302,033; published Sept. 16, 1930.
Publication. Sugar Publications, Inc. 278,000; Dec. 2; Serial No. 295,399; published Sept. 23, 1930.
Publications. Texas Company. 277,893; Dec. 2; Serial No. 304,166; published Sept. 23, 1930.
Publications and periodicals. Stuyvesant Company. 36,115; renewed Mar. 26, 1931.
Stamps, Discount or trading. Hello World Stamp Corporation. 277,904; Dec. 2; Serial No. 303,768; published Sept. 23, 1930.

CLASS 39

Boots and shoes, Leather. Stewart-Dawes Shoe Company. 80,813; renewed Jan. 31, 1931.
Cravats. A. Schreter & Sons Co. 278,113; Dec. 2.
Dresses, Women's and misses' ready-made. Dallas Co. 278,120; Dec. 2.
Hats and caps. C. T. Hall. 278,129; Dec. 2.
Hats, Women's. Sears, Roebuck and Co. 278,114; Dec. 2.
Hosiery. Chenango Knitting Company. 278,131; Dec. 2.
Hosiery. E. M. Townsend & Co. 79,614; renewed Sept. 20, 1930.
Hosiery. Van Raalte Company. 278,045; Dec. 2; Serial No. 303,073; published Sept. 9, 1930.
Neckties. E. Glick. 278,128; Dec. 2.
Shirts, men's and boys' dress. Phoenix Shirt Company. 278,119; Dec. 2.
Shoes. Ryck Brothers & Company. 278,135; Dec. 2.
Sweater coats. Sterling Mills. 278,137; Dec. 2.
Underwear. Adam H. Bartel Company. 278,117; Dec. 2.
Windbreakers. H. D. Bob Company Inc. 278,123; Dec. 2.

CLASS 40

Buckles, buttons, and clasps. American Steel Buckle Co. 35,491; renewed Nov. 27, 1930.
Snap buttons used as garment fasteners. Waldes & Co. 80,095; renewed Nov. 1, 1930.

CLASS 42

Cotton drapery fabrics. H. R. Mallinson & Co. Inc. 278,026; Dec. 2; Serial No. 298,406; published Sept. 16, 1930.
Fabric in the piece, All-worsted. Atlantic Mills. 278,069; Dec. 2; Serial No. 304,306; published Sept. 16, 1930.
Fabrics. H. Ernstberger & Co. 278,035; Dec. 2; Serial No. 296,406; published Sept. 9, 1930.
Fabrics in the piece. Cheney Brothers. 278,076; Dec. 2; Serial No. 303,596; published Sept. 23, 1930.
Fabrics, Pile. Sidney Blumenthal & Co. Inc. 278,073; Dec. 2; Serial No. 303,992; published Sept. 9, 1930.
Fabrics, Pile. E. F. Timme & Son. 277,963; Dec. 2; Serial No. 303,262; published Sept. 9, 1930.
Goods, Cotton piece. White Brothers. 81,186; renewed Mar. 7, 1931.
Goods, toweling, napkins, etc., Piece. Eureka Manufacturing Co. 278,095; Dec. 2; Serial No. 287,919; published Sept. 23, 1930.
Quilts and quiltings, pads, etc. Albatross Quilting, Inc. 278,033; Dec. 2; Serial No. 296,941; published Sept. 16, 1930.
Scrim in the piece. Boott Mills. 277,888; Dec. 2; Serial No. 301,562; published Aug. 19, 1930.
Sheetings, sheets, bolster and pillow cases. Rice-Stix Dry Goods Co. 81,357; renewed Mar. 28, 1931.
Silk piece goods. Jansen & Preitzfeld, Inc. 278,115; Dec. 2.
Silks and silk mixtures, Broad. Schwarzenbach Huber Co. 277,965; Dec. 2; Serial No. 303,036; published Sept. 23, 1930.
Woolen piece goods. Hartford Woolen Co. 278,072; Dec. 2; Serial No. 304,007; published Sept. 16, 1930.
Woolen piece goods and pile fabrics. I. Gottlieb. 277,962; Dec. 2; Serial No. 303,374; published Sept. 9, 1930.
Worsted cloth piece goods. Martin Sons and Company. 79,591; renewed Sept. 20, 1930.

CLASS 43

Yarns, Rayon and wool. J. A. Weinberger. 277,968; Dec. 2; Serial No. 302,710; published Sept. 16, 1930.

CLASS 45

Beverage and syrup for making same, Maltless. Comet's California Orange Drink Co. 278,075; Dec. 2; Serial No. 303,879; published Sept. 23, 1930.
Beverages and preparations for making the same, Maltless. E. W. Voelpel. 277,964; Dec. 2; Serial No. 303,075; published Sept. 16, 1930.
Beverages, Maltless. Booth Bottling Company. 278,030; Dec. 2; Serial No. 297,515; published Sept. 23, 1930.
Water, Spring. Virginia Buffalo Springs Corporation. 277,967; Dec. 2; Serial No. 302,842; published Sept. 23, 1930.

CLASS 46

Bakery products. National Biscuit Company. 36,221; renewed Apr. 9, 1931.
Biscuit. National Biscuit Company. 81,405; renewed Apr. 4, 1931.
Bouillon cubes. Maggi Co. 277,861; Dec. 2; Serial No. 304,335; published Sept. 16, 1930.
Cake. Drake Bakeries Incorporated. 277,983; Dec. 2; Serial No. 304,043; published Sept. 16, 1930.
Candy. Consolidated Tea Company. 277,875; Dec. 2; Serial No. 303,365; published Sept. 16, 1930.
Candy. Curtiss Candy Company. 277,872; Dec. 2; Serial No. 303,631; published Sept. 16, 1930.
Candy. Herchenroder Candy Company. 277,880; Dec. 2; Serial No. 301,265; published Sept. 16, 1930.
Candy. Independent Druggists' Alliance Distributing Co. 277,870; Dec. 2; Serial No. 303,905; published Sept. 23, 1930.
Candy. Redel Candy Corporation. 277,877; Dec. 2; Serial No. 302,747; published Sept. 23, 1930.
Candy. Thinshell Candies, Inc. 278,083; Dec. 2; Serial No. 281,024; published Sept. 23, 1930.
Candy. Williamson Candy Co. 277,863; Dec. 2; Serial No. 304,174; published Sept. 16, 1930.
Candy. Williamson Candy Co. 277,864; Dec. 2; Serial No. 304,173; published Sept. 23, 1930.
Candy, salted peanuts, and peanut butter. Allen & Smith Company. 277,966; Dec. 2; Serial No. 302,846; published Sept. 2, 1930.
Canned crab meat. Parrott & Co. 79,930; renewed Oct. 18, 1930.
Canned fish. Nichiro Gyogyo Kabushiki Kaisha. 278,032; Dec. 2; Serial No. 297,454; published Sept. 16, 1930.
Canned fruits and vegetables. Monocacy Valley Canning Company. 278,023; Dec. 2; Serial No. 298,760; published Sept. 16, 1930.
Canned fruits and vegetables. Twohy-Elmon Mercantile Company. 79,537; renewed Sept. 13, 1930.
Canned vegetables, fish, and fish roe. Phillips Packing Company. 277,980; Dec. 2; Serial No. 299,797; published Sept. 16, 1930.
Cheese. E. Cerruti. 277,913; Dec. 2; Serial No. 302,852; published Sept. 16, 1930.
Cheese and cracker sticks. Roethlisberger & Co. Inc. 277,911; Dec. 2; Serial No. 303,515; published Sept. 16, 1930.
Chocolate confections. J. L. Sills. 278,027; Dec. 2; Serial No. 298,363; published Sept. 16, 1930.
Coffee. Browning & Baines, Inc. 277,869; Dec. 2; Serial No. 303,948; published Sept. 16, 1930.
Coffee. R. S. Gehlert & Co. 277,874; Dec. 2; Serial No. 303,473; published Sept. 16, 1930.
Coffee. George J. Howe Company. 277,871; Dec. 2; Serial No. 303,746; published Sept. 16, 1930.
Coffee. Lee & Cady. 277,862; Dec. 2; Serial No. 304,203; published Sept. 16, 1930.
Coffee, Green. Westfeldt Brothers. 277,879; Dec. 2; Serial No. 302,449; published Sept. 23, 1930.
Coffee, Roasted. Dayton Spice Mills Company. 79,040; renewed Aug 2, 1930.
Confectionery. Beech-Nut Packing Company. 278,003; Dec. 2; Serial No. 294,952; published Sept. 16, 1930.
Confectionery. Chicago Candy Novelties Corp. 277,974; Dec. 2; Serial No. 300,333; published Sept. 23, 1930.
Confectionery. Gardiner-Lucas Company. 35,497; renewed Nov. 27, 1930.
Corn, Parched sweet. World's Products Company. 277,867; Dec. 2; Serial No. 304,080; published Sept. 23, 1930.
Corn, Parched sweet. World's Products Company. 277,868; Dec. 2; Serial No. 304,028; published Sept. 23, 1930.
Doughnuts. F. Maier, Jr. 278,089; Dec. 2; Serial No. 290,135; published Sept. 23, 1930.
Flour and feed for stock and poultry, Wheat. Farmers Elevator Service Company. 277,926; Dec. 2; Serial No. 303,844; published Sept. 23, 1930.
Flour, Self-rising. Colorado Milling & Elevator Co. 278,011; Dec. 2; Serial No. 300,927; published Sept. 16, 1930.
Flour, Wheat. R. E. Clark. 277,910; Dec. 2; Serial No. 303,628; published Sept. 16, 1930.
Flour, Wheat. Dan Valley Mills. 277,973; Dec. 2; Serial No. 300,340; published Sept. 23, 1930.
Flour, Wheat. Hutchinson & Jaquith, Inc. 277,912; Dec. 2; Serial No. 303,442; published Sept. 16, 1930.
Flour, Wheat. D. & A. Luckenbach. 78,809; renewed July 12, 1930.
Flour, Wheat. New Prague Flouring Mill Company. 81,408; renewed Apr. 4, 1931.
Flour, Wheat. C. B. Ragland Company. 277,927–8; Dec. 2; Serial Nos. 303,781–2; published Sept. 16, 1930.
Flour, Wheat. C. B. Stout. 278,014; Dec. 2; Serial No. 300,449; published Sept. 23, 1930.
Foods. Lutz & Schramm Company. 81,345; renewed Mar. 28, 1931.
Foods and relishes. M. A. Gedney Pickling Company. 35,261; renewed Oct. 16, 1930.
Foods and relishes. M. A. Gedney Pickling Company. 35,498; renewed Nov. 27, 1930.
Fruits and vegetables, Fresh. M. Portigian. 278,079; Dec. 2; Serial No. 284,995; published Sept. 16, 1930.
Fruits, deciduous fruits, and vegetables, Fresh citrus. Simons, Shuttleworth & French Company. 277,873; Dec. 2; Serial No. 303,552; published Sept. 16, 1930.
Fruits, Fresh deciduous. Santa Clara Pear Association. 278,091; Dec. 2; Serial No. 289,646; published Sept. 23, 1930.
Fruits, grapes, dates, Fresh citrus. Dr. H. W. Forbes. 277,866; Dec. 2; Serial No. 304,133; published Sept. 16, 1930.
Fruits, jams, and jellies, etc., Preserved. Martha Roland Co. 278,138; Dec. 2.
Grain and mixed food for stock. South Texas Grain Company. 80,089; renewed Nov. 1, 1930.
Grain and mixed food for stock. South Texas Grain Company. 80,559; renewed Jan. 3, 1931.
Hams, bacon, and lard. C. G. Kriel. 36,165; renewed Apr. 2, 1931.
Nut bar. Max Glick Company. 79,335; renewed Aug. 30, 1930.
Nuts. Consolidated Pecan Sales Company. 277,876; Dec. 2; Serial No. 303,047; published Sept. 16, 1930.

Oil shortening. Globe Grain & Milling Co. 277,878; Dec. 2; Serial No. 302,464; published Sept. 23, 1930.
Prunes. F. A. Schneider. 277,865; Dec. 2; Serial No. 304,104; published Sept. 16, 1930.
Raisins and plain raisins, Chocolate-coated. W. J. Berger. 277,976; Dec. 2; Serial No. 300,046; published Sept. 23, 1930.
Rice. Lake Charles Rice Milling Company of Louisiana, Inc. 277,979; Dec. 2; Serial No. 299,846; published Sept. 23, 1930.
Rusk. Dutch Tea Rusk Corporation. 278,078; Dec. 2; Serial No. 276,518; published Sept. 16, 1930.
Syrup, Malt. Foss Schneider Company. 278,013; Dec. 2; Serial No. 300,715; published Sept. 16, 1930.

CLASS 48

Malt beverage. Independent Druggists' Alliance Distributing Co. 278,074; Dec. 2; Serial No. 303,906; published Sept. 23, 1930.
Malt beverage. Manitowoc Products Company. 277,977; Dec. 2; Serial No. 299,978; published Sept. 23, 1930.
Malt beverage. Louis F. Neuweiler's Sons. 278,071; Dec. 2; Serial No. 304,247; published Sept. 23, 1930.

CLASS 50

Flycatchers. Pyramiden - Fliegenfänger - Fabrik Max Dametz m. b. H., Zeitz. 277,957; Dec. 2; Serial No. 303,700; published Sept. 16, 1930.

ALPHABETICAL LIST OF LABELS

A House of Schlage Locks. For Door Locks. Schlage Lock Company. 38,349; Dec. 2.
Blue Diamond. For Honey. Packing and Marketing, Incorporated. 38,344; Dec. 2.
Canadian Pale. For Bottled Liquid Made with Malt and Hops and Containing Less Than One-Half of One Per Cent of Alcohol by Volume. Canadian Pale Products Association. 38,314; Dec. 2.
Card Race. For Puzzle Employing Numbered Blocks. Embossing Company. 38,317; Dec. 2.
Chelsea Arms. For Cigars. Joseph H. Beck & Co. 38,313; Dec. 2.
Dead Line. For Powder for the Extermination of Insects. F. F. Miller. 38,341; Dec. 2.
Dox. For Malt Syrups, Extracts, and Nonalcoholic Beverages. J. S. Polefsky. 38,347; Dec. 2.
Dr. Merrill's. For Boxes. Hoague-Sprague Corporation. 38,321; Dec. 2.
Grandma's. For Cake. Lantz Bros. Baking Co. 38,337–9; Dec. 2.
Hi-Boy. For Cigars. G. A. Stroheck. 38,352; Dec. 2.
Hygeia Quill Toothpicks. For Quill Toothpicks. Hygeia Antiseptic Toothpick Co. 38,330; Dec. 2.
K-I-K Real Hop Flavored Malt Syrup. For Malt Syrup. P. Chanquet & Son. 38,315; Dec. 2.
Kitty Kelly. For Boxes. Hoague-Sprague Corporation. 38,318; Dec. 2.
Kreuger's Amber Ginger Ale. For Beverage. Kreuger Beverage Company. 38,333; Dec. 2.
Kreuger's Clear Cocoa. For Beverage. Kreuger Beverage Company. 38,326; Dec. 2.
Kreuger's Pale Dry Ginger Ale. For Beverage. Kreuger Beverage Company. 38,334; Dec. 2.
Kreuger's Root Beer. For Beverage. Kreuger Beverage Company. 38,335; Dec. 2.
Michel Shoes. For Boxes. Hoague-Sprague Corporation. 38,319; Dec. 2.
Miller's Incorporated. For Boxes. Hoague-Sprague Corporation. 38,329; Dec. 2.
Nalvette Pads. For Pads Used in the Permanent Waving of Hair. Nalvette, Inc. 38,342; Dec. 2.
Nokof—Cough up 10¢ and Cough no More. For Cough Drops. Humbert Pelosi and Louis Pelosi. 38,345; Dec. 2.
O Boy. For Bread. Southern Service Corporation. 38,351; Dec. 2.
Ohrbach's. For Boxes. Hoague-Sprague Corporation. 38,322; Dec. 2.
Ozark Concord Grapes, "The Pride of Knobview,". For Grapes. Knobview Fruit Growers Cooperative Association. 38,332; Dec. 2.
Pandora. For Boxes. Hoague-Sprague Corporation. 38,327; Dec. 2.
Paramount. For Boxes. Hoague-Sprague Corporation. 38,323; Dec. 2.
Paters. For Malt Syrup. H. Perloff. 38,346; Dec. 2.
Pumpo-Knickel. For Bread. Edelsauer Service Corporation. 38,316; Dec. 2.
Quality Service. For Tissue Paper. Miller Brothers & Co. 38,340; Dec. 2.
Red-E-Koffe. For Coffee. J. Israel. 38,331; Dec. 2.
Ring-Rout. For Medicament for the Treatment of a Skin Affection. Ring-Rout, Inc. 38,348; Dec. 2.
St. Regis Shoe Co. For Boxes. Hoague-Sprague Corporation. 38,328; Dec. 2.
Scoldy Bob. For Hairpins. Scolding Locks Corporation. 38,350; Dec. 2.
Smart Styles. For Boxes. Hoague-Sprague Corporation. 38,320; Dec. 2.
Superior Shoe Co. For Boxes. Hoague-Sprague Corporation. 38,324; Dec. 2.
The Buccaneer Box. For Candies. Norris, Inc. 38,343; Dec. 2.
The Henri Shoe. For Boxes. Hoague-Sprague Corporation. 38,325; Dec. 2.
Tip Top Twist Bread. For Bread. Ward Baking Company. 38,353; Dec. 2.
United Shoe Stores. For Boxes. Hoague-Sprague Corporation. 38,326; Dec. 2.

ALPHABETICAL LIST OF PRINTS

Atomol. For Concentrated Inhalent for the Treatment of Head Colds and Nasal Catarrh. Atomol Mfg. Co. 12,830; Dec. 2.
Camels are Odds—On Favorites in Every Field . . . . There Isn't a Cigarette . . . Anywhere—That Can Touch Them For Fragrance, For Mildness, For Downright Smoking Pleasure. For Cigarettes. R. J. Reynolds Tobacco Company. 12,852; Dec. 2.
Claim Your Share of Youth. For Cleansing Cream, Skin Tonic, Velva Cream, and Orange Skin Food. Elizabeth Arden Inc. 12,829; Dec. 2.
Dealers' Descriptive Price List. For Radio Device. Amperite Corporation. 12,828; Dec. 2.
En Route. For Cigarettes. R. J. Reynolds Tobacco Company. 12,844; Dec. 2.
Get a Load of This . . . For Tobacco. R. J. Reynolds Tobacco Company. 12,848; Dec. 2.
Indigestion Ended or No Pay. For Indigestion Medicine. W. C. McKee. 12,835; Dec. 2.
"Look Me Up If You're Out My Way . . . . For Cigarettes. R. J. Reynolds Tobacco Company. 12,838; Dec. 2.
Martin's Chocolate Chips. For a Food Product. Martin Biscuit Company. 12,834; Dec. 2.
Milk. For Milk. H. C. Soucheray. 12,853; Dec. 2.
Now For a Camel! For Cigarettes. R. J. Reynolds Tobacco Company. 12,843; Dec. 2.
On Nippy Days in Carolina—Or Anywhere Else—What a Joyous Dish This is! For Heinz Tomato Ketchup. H. J. Heinz Company. 12,832; Dec. 2.
Parke-Davis Milk of Magnesia. For Milk of Magnesia. Parke, Davis & Company. 12,836–7; Dec. 2.
Pleasure Ahoy! For Cigarettes. R. J. Reynolds Tobacco Company. 12,845; Dec. 2.
"Precious!" For Cigarettes. R. J. Reynolds Tobacco Company. 12,841; Dec. 2.
Red, Luscious Tomatoes . . Rich, Thick Cream . . . . Spices so Delicate, so Flavorful. For Cream of Tomato Soup. H. J. Heinz Company. 12,833; Dec. 2.
Right Down my Alley. For Tobacco. R. J. Reynolds Tobacco Company. 12,849; Dec. 2.
Right Over the Fence. For Tobacco. R. J. Reynolds Tobacco Company. 12,840; Dec. 2.
Score Another for Camel. For Cigarettes. R. J. Reynolds Tobacco Company. 12,846; Dec. 2.
Siesta. For Cigarettes. R. J. Reynolds Tobacco Company. 12,839; Dec. 2.
Something Borrowed. For Cigarettes. R. J. Reynolds Tobacco Company. 12,851; Dec. 2.
The Trick Marble Game. For Game Apparatus. G. Deprez. 12,831; Dec. 2.
Threesome. For Cigarettes. R. J. Reynolds Tobacco Company. 12,850; Dec. 2.
Vantage In. For Cigarettes. R. J. Reynolds Tobacco Company. 12,842; Dec. 2.
Why Fiddle Around. For Tobacco. R. J. Reynolds Tobacco Company. 12,847; Dec. 2.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 2D DAY OF DECEMBER, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

A C Spark Plug Company. (See Gustafson, Edwin A., assignor.)
A C Spark Plug Company. (See Helgeby, Ralph O., assignor.)
A C Spark Plug Company. (See Keeney, Don E., assignor.)
A C Spark Plug Company. (See McKinley, Charles W., assignor.)
A C Spark Plug Company. (See Zubaty, Joseph, assignor.)
Abbe, Edward J., assignor to The Elwell-Parker Electric Company, Cleveland, Ohio. Controller. 1,783,763; Dec. 2.
Adams, James R., Hatboro, Pa. Zone-hardening steel articles. 1,783,764; Dec. 2.
Adams, Kempton, Redding Ridge, Conn. Mixer. 1,783,553; Dec. 2.
Adams, Lester V. (See Kienle, R. H., and Adams.)
Adjustable Clamp Company. (See Holman, Harry V., assignor.)
Agfa Ansco Corporation. (See Goldacker, P., and Schmidt, assignors.)
Ainsworth, Harry G., Aurora, Ill. Door-operating mechanism. 1,783,354; Dec. 2.
Air Reduction Company. (See Crowe, John J., assignor.)
Alemite Die Casting & Mfg. Co. (See Guilborg, John S., assignor.)
Allen, Hugh E. (See Carter, E. F., and Allen.)
Allen, Hugh E., Schenectady, N. Y., assignor to General Electric Company. Remote control system. 1,783,820; Dec. 2.
Allen, John L., New Bedford, Mass. Gasket-cutting machine. 1,783,869; Dec. 2.
American Air Filter Company. (See Birkholz, Hans E., assignor.)
American Air Filter Company. (See McConnell, J. R., and Lewis, assignors.)
American Anode Inc. (See Klein, P., and Szegvari, assignors.)
American Brown Boveri Electric Corporation. (See Sindeband, M. L., and Marti, assignors.)
American Engineering Company. (See Harrison, Clifford E., assignor.)
American Manganese Steel Company. (See Watts, James R., assignor.)
American Optical Company. (See Baker, Nelson M., assignor.)
American Smelting and Refining Company. (See Easter, Henry F., assignor.)
American Telephone and Telegraph Company. (See Weaver, Allan, assignor.)
Ames, Adelbert, jr., Tewksbury, Mass. Art of and apparatus for motion-picture photography. 1,783,399; Dec. 2.
Anchor Cap & Closure Corporation. (See Scofield, Edgar, assignor.)
Anderssen, Walter, St. Louis, Mo. Flask supporter. 1,83,765; Dec. 2.
Angier, Clarence V., jr., Atlanta, Ga. Traffic-line marking and stenciling machine. 1,783,689; Dec. 2.
Anzulovic, James V. (See Collins, C. L., and Anzulovic.)
Apple, Vincent G., Dayton, Ohio. Direct-drive electric railway truck. 1,783,269; Dec. 2.
Appler, Abraham B. (See Brown, G., and Appler.)
Arenberg, Albert L., Chicago, Ill. Lamp. Des. 82,648; Dec. 2.
Arenberg, Albert L., Chicago, Ill. Lamp. Des. 82,649; Dec. 2.
Armsbruster, Inc. (See Bradt, Edward L., assignor.)
Askam, Le Roy, Milford, Conn. Windshield clarifier. 1,783,270; Dec. 2.
Asmussen, Heinrich. (See Loebe, W.-W., Ledig, and Asmussen.)
Augenthaler, Friedrich A., Berlin, Germany. Chuck for torsional stresses. 1,783,870; Dec. 2.
Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. High-potential installation. 1,783,271; Dec. 2.
Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Support for transmission lines. 1,783,272; Dec. 2.
Automatic Packaging Machinery Company. (See Van der Pyl, E., and Stimpson, assignors.)
Aveyard, Charles, Lowell, assignor to Whitin Machine Works, Whitinsville, Mass. Yarn stop motion for twisting machines. 1,783,897; Dec. 2.
B. V. D. Company. (See Ide, Walter D., assignor.)
Babe, William E., assignor to The Pedlar People Limited, Oshawa, Ontario, Canada. Sheet-metal culvert. 1,783,597; Dec. 2.
Bacheldor, William H. (See Wood, W. E., and Bacheldor.)
Backer, Christian B., Brooklyn, N. Y. Electric heating device. 1,783,554; Dec. 2.
Baker, Frederick C., Portland, Oreg. Semiindirect diffusing bowl. Des. 82,715; Dec. 2.
Baker, Nelson M., assignor to American Optical Company, Southbridge, Mass. Guard for an ophthalmic mounting. Des. 82,651; Dec. 2.
Baker, Reginald H., and C. W. Parsons, Aston, Birmingham, England. Electric switch. 1,783,690; Dec. 2.
Baldwin, William E., New York, N. Y. Golf tee. 1,783,211; Dec. 2.
Ball, Charles O., Birmingham, assignor to Yellow Truck and Coach Manufacturing Company, Pontiac, Mich. Window-regulator adjustment. 1,783,933; Dec. 2.
Balloon Rubber Heel Corporation. (See Norwood, Harry G., assignor.)
Balton, James L., Baltimore, Md. Ice-cream cone. Des. 82,650; Dec. 2.
Bamberger, Otto, Duisburg, Germany. Tube-transporting device. 1,783,555; Dec. 2.
Bamford, Frank L., assignor to C. M. Hall Lamp Company, Detroit, Mich. Lamp catch. 1,783,598; Dec. 2.
Banning, Thomas A., jr. (See Shay, Ralph R., assignor.)
Banschbach, Edward A., Madison, Wis. Protector for automobiles. 1,783,934; Dec. 2.
Barbas, Raymond, assignor to La Société Anonyme Jean Patou, Paris, France. Bottle. Des. 82,652; Dec. 2.
Barbas, Raymond, assignor to La Société Anonyme Jean Patou, Paris, France. Bottle. Des. 82,653; Dec. 2.
Barbas, Raymond, assignor to La Société Anonyme Jean Patou, Paris, France. Bottle. Des. 82,716; Dec. 2.
Barber, Howard M., Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Rotary web-printing press. 1,783,766; Dec. 2.
Barber, Howard M., Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Rotary web-printing press. 1,278,767; Dec. 2.
Barclay, William R., and F. Ricks, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Heel-seat-fitting machine. 1,783,212; Dec. 2.
Barker, Galen D., Dowagiac, Mich. Heater control. 1,783,821; Dec. 2.
Barnes, William E., Tarentum, Pa., assignor to Pittsburgh Plate Glass Company. Glass-pot-filling apparatus. 1,783,459; Dec. 2.
Barnett, James W., Spokane, Wash. Doorstop. Des. 82,654; Dec. 2.
Barry, James J., Dartmouth, Nova Scotia, Canada. Brining machine. 1,783,898; Dec. 2.
Barton, Fred C., Schenectady, N. Y., assignor to General Electric Company. Radio receiving apparatus. 1,783,899; Dec. 2.
Bass, Earl E., Fort Mill, S. C., assignor to Draper Corporation, Hopedale, Mass. Shuttle-feeler mechanism for looms. 1,783,768; Dec. 2.
Bastien, Paul, Lansing, Mich., assignor to Bendix Brake Company, Chicago, Ill. Brake-operating mechanism. Re17,888; Dec. 2.
Bates, Mortimer F., assignor, by mesne assignments, to Sperry Gyroscope Company Inc., Brooklyn, N. Y. Bomb sight. 1,783,769; Dec. 2.
Batty, Alfred. (See Boyd, Charles R., assignor.)
Bauer, William J., New York, N. Y. Collapsible table. 1,783,556; Dec. 2.
Baum, Isaac A., Chicago, Ill. Baseboard construction. 1,783,180; Dec. 2.
Bausch & Lomb Optical Company. (See Rayton, Wilbur B., assignor.)
Beach, Ralph H., Belleville, N. J. Carburetor. 1,783,273; Dec. 2.
Beam, Charles C., assignor to United States Glass Company, Pittsburgh, Pa. Pedestal for a goblet or similar article. Des. 82,655; Dec. 2.
Bebry, Percival P., Hyde Park, Boston, Mass., assignor to Englander Spring Bed Company, New York, N. Y. Sliding couch. 1,783,530; Dec. 2.
Bebry, Percival P., Hyde Park, Mass., assignor to Englander Spring Bed Company, New York, N. Y. Sliding spiral-spring bed. 1,783,531; Dec. 2.
Beck, Adolf, and G. Siebel, Bitterfeld, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Improving the resistance to corrosion of articles of magnesium and magnesium alloys. 1,783,770; Dec. 2.
Becker, Franz, Dessau in Anhalt, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Making cellulose esters of both nitric acid and an organic acid. 1,783,771; Dec. 2.
Beckham, Guy F., and C. D. Morgan, Crosbyton, Tex. Furnace-door-carried fuel burner. 1,783,490; Dec. 2.

Beeson, Joseph W., East St. Louis, assignor to J. E. Carson, Belleville, Ill. Coin-controlled vending machine. 1,783,325; Dec. 2.

Behncke, Hermann. (See Marx, K., Behncke, and Brodersen.)

Behrmann, Georg J. K., Rijswijk, assignor to Naamlooze Vennootschap Ingenieurs Kantoor voor Scheepsbouw, The Hague, Netherlands. Submarine boat. 1,783,691; Dec. 2.

Belcher, Robert F., et al. (See Carter, Samuel C., assignor.)

Belden, Albert G. (See Trefethen, C. G., and Belden.)

Bell, Raymond T., assignor to A. O. Smith Corporation, Milwaukee, Wis. Railway grade crossing. 1,783,274; Dec. 2.

Bellam, Joseph E. (See Edmonds, John H., assignor.)

Bendix Brake Company. (See Bastien, Paul, assignor.)

Benner, Harry P. (See Egloff, G., and Benner.)

Benner, Harry P. (See Morrell, J. C., and Benner.)

Bennett, Ashley C., Minneapolis, Minn. Apparatus for supplying fuel oil to furnaces. 1,783,213; Dec. 2.

Bensema, Harm H., Gilman, Ill. Reel. 1,783,692; Dec. 2.

Benson, Walter F., St. Paul, Minn. Desk set. 1,783,772; Dec. 2.

Bergmann, Friedrich. (See Eisenmann, K., and Bergmann.)

Bergmann, Philip, assignor to Columbia Steel Equipment Company, Philadelphia, Pa. Posting tray. 1,783,871; Dec. 2.

Berwin, Alfred G., New York, N. Y. Combined lady's hand bag for umbrellas and pocketbooks. 1,783,275; Dec. 2.

Bethenod, Joseph, Paris, France. Compensating system for amplifiers. 1,783,557; Dec. 2.

Bethlehem Steel Company. (See Kinney, James A., assignor.)

Bicknell, George M., assignor to Carter Carburetor Corporation, St. Louis, Mo. Carburetor. 1,783,214; Dec. 2.

Bilde, Tord E. D., Stockholm, Sweden, assignor to Inventia Patent-Verwertungs-Gesellschaft, Schaffhausen, Switzerland. Surface-treating machine. 1,783,773; Dec. 2.

Bird, Lester F., Schenectady, N. Y., assignor to General Electric Company. Remote-control switching system. 1,783,900; Dec. 2.

Birdsboro Steel Foundry & Machine Company. (See Martin, Mark H., assignor.)

Birkholz, Hans E., Chicago, Ill., assignor, by mesne assignments, to American Air Filter Company, Inc., Louisville, Ky. Automatic resistance-controlled air and gas filter. 1,783,181; Dec. 2.

Black, Starr and Frost. (See Wuyts, Joseph, assignor.)

Blair, Camille C., Los Angeles, Calif. Doll. Des. 82,656; Dec. 2.

Blake, Dennis B. D., assignor of one-half to D. E. Willard, Danville, Ill. Shock absorber. 1,783,599; Dec. 2.

Blake, George H. (See Crowell, S. E., and Blake.)

Blanchard, Berton L., assignor to F. A. Whitney Carriage Company, Leominster, Mass. Baby carriage. 1,783,913; Dec. 2.

Bliss, Howard R., Flushing, N. Y. Sound-controlling ventilating device. 1,783,276; Dec. 2.

Bloch, Max, Frankfort-on-the-Main, Germany. Method and device for removing the hairs from the skin of fells. 1,783,693; Dec. 2.

Block, Joseph, Brooklyn, assignor to Noma Electric Corporation, New York, N. Y. Electrical decorative illuminating device. 1,783,277; Dec. 2.

Blondeau, Howard. (See Canny, J., and Blondeau.)

Blumenberg, Henry, jr., Moapa, Nev. Sulphur composition and making the same. 1,783,695; Dec. 2.

Blumenberg, Henry, jr., Moapa, Nev., and J. H. Blumenberg, Huntington Park, Calif. Producing organic iron compounds and the resulting product. 1,783,694; Dec. 2.

Blumenberg, John H. (See Blumenberg, Henry, jr., and J. H.)

Bock, Carl J., Pontiac, assignor to Yellow Truck & Coach Manufacturing Company, Pontiac, Mich. Brake cross shaft mounting. 1,783,774; Dec. 2.

Bockwitz, Virgil J., Humboldt, Minn. Grain saver. 1,783,400; Dec. 2.

Bodde, Theodore, Niagara Falls, assignor to The Regan Safety Devices Company, Inc., New York, N. Y. Train-control system. 1,783,491; Dec. 2.

Boden, George, assignor to Scovell Manufacturing Company, Waterbury, Conn. Penholder. 1,783,215; Dec. 2.

Bodmer, Albert, assignor to Heberlein & Co., A. G., Wattwil, Switzerland. Dyeing. Re17,894; Dec. 2.

Boehler, Raymond F., jr., Springfield, assignor to The Williams Company, London, Ohio. Steel-wool holder with pad. 1,783,775; Dec. 2.

Boehm, George P., Chicago, Ill. Bath fixture. 1,783,492; Dec. 2.

Boeschel, Frederick, East Rutherford, N. J. Bottle-rinsing machine. 1,783,776; Dec. 2.

Bögemann, Max, Elberfeld, and H. Friedrich, Wiesdor-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Producing vulcanized rubber. 1,783,216; Dec. 2.

Bolard, Alfred J. G., Vernon, assignor to "Rusbol," Société à Responsabilité Limitée, Clichy, France. Automobile jack. 1,783,822; Dec. 2.

Bolton, Becher B., Rosemead, assignor to W. Steen, Brea, Calif. Tile block. Des. 82,657; Dec. 2.

Borton, George W., Philadelphia, Pa., assignor to Pennsylvania Crusher Company, New York, N. Y. Single-roll crusher. 1,783,373; Dec. 2.

Borzykowski, Benno, Paris, France. Washing yarn or threads wound upon spools. 1,783,493; Dec. 2.

Bosch, Robert, Aktiengesellschaft. (See Burkas, Hans, assignor.)

Bosch, Robert, Aktiengesellschaft. (See Lang, Franz, assignor.)

Bothe, Adolph and E., Lansing, Mich. Automatic deep-frying machine. 1,783,696; Dec. 2.

Bothe, Ernest. (See Bothe, Adolph and E.)

Böttner, August, Eltmannshausen, Germany. Window pane. 1,783,326; Dec. 2.

Bottoms, Robert R., assignor to The Girdler Corporation, Louisville, Ky. Separating acidic gases. 1,783,901; Dec. 2.

Boyce Automatic Oil Burner Corporation. (See Gaston, Harry W., assignor.)

Boyd, Charles R., assignor of forty per cent to A. Batty, Marshalltown, Iowa. Shoe stretcher or adjuster. 1,783,600; Dec. 2.

Bradt, Edward L., assignor to Armbruster, Inc., Shreveport, La. Unloading machine. 1,783,823; Dec. 2.

Brady, Charles T., Detroit, Mich. Clamp for examination devices. 1,783,278; Dec. 2.

Brenner, Fred A., Belleville, Ill., assignor to Gretsch & Brenner, Inc., New York, N. Y. Reed for musical instruments. 1,783,824; Dec. 2.

Brewster, Thomas E., Grand Rapids, Mich. Compensating division sheet. 1,783,777; Dec. 2.

Brink, William and G. L. Hess, El Dorado, Ark., assignors to General Oil Products Company. Method and apparatus for cracking oil. 1,783,697; Dec. 2.

Broadwell, Halvor S., and S. T. Thorpe, assignors to The Horton Manufacturing Company, Bristol, Conn. Fishing reel. 1,783,494; Dec. 2.

Brodersen, Karl. (See Marx, K., Behncke, and Brodersen.)

Broge, William F., Detroit, Mich., assignor of one-third to J. Frame. Carburetor. 1,783,217; Dec. 2.

Brooks, Charles P., jr., and S. Kovner, assignors to Standard Modern Printing Co., Inc., Brockton, Mass. Method of and apparatus for finishing the bottoms of boots and shoes. 1,783,401; Dec. 2.

Brooks, Thomas E. (See Olson, C. A., Buch, and Brooks.)

Brooks, Thomas R. (See Patocka, Theodore, assignor.)

Brost, Henry, Medford, Wis. Brake adjuster. 1,783,902; Dec. 2.

Brotz, Frank G., assignor to Kohler Company, Kohler, Wis. Pop-up waste. 1,783,460; Dec. 2.

Brown Company. (See Schur, M. O., and Rasch, assignors.)

Brown, George, Oneota, and A. B. Appler, Albany, N. Y. Crank pin and collar. 1,783,825; Dec. 2.

Brown, Hugh C., Asheville, N. C. Coffee table. Des. 82,658; Dec. 2.

Brown, William E., Los Angeles, Calif. Folding support. 1,783,558; Dec. 2.

Brownback, Henry L., Norristown, Pa. Crank-pin bearing for connecting-rod assemblies. 1,783,698; Dec. 2.

Bryant, Louis O. (See Denmark, A. C., and Bryant.)

Buch, Frederick L. (See Olson, C. A., Buch, and Brooks.)

Buck, William H. (See Morris, C., and Buck.)

Builders Iron Foundry. (See Kent, W. G., and Hovenden, assignors.)

Bunch, Walter R., Los Angeles, Calif. Back filler. 1,783,941; Dec. 2.

Burdsall, Richard L., assignor to Russell, Burdsall & Ward Bolt & Nut Company, Port Chester, N. Y. Machine for assemblying nuts. 1,783,218; Dec. 2.

Burgess, Ira W., Minden, W. Va. Electric switch. 1,783,903; Dec. 2.

Burkas, Hans, Tubingen, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Circuit breaker for ignition installations of internal-combustion engines. 1,783,495; Dec. 2.

Burke, Robert J., assignor to Lincoln Scale Corporation, Latrobe, Pa. Rack-rod assembly for scales. 1,783,826; Dec. 2.

Burnham, George A., Saugus, assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass. Circuit interrupter. 1,783,279; Dec. 2.

Burton, Charles S., Oak Park, Ill. Fuel-feeding device. 1,783,374; Dec. 2.

Bushnell, James E., North Plainfield, assignor to Ransome Concrete Machinery Company, Plainfield, N. J. Loading device for concrete mixers. 1,783,532; Dec. 2.

Butcher, George C., Parkersburg, W. Va. Poultry killer. 1,783,699; Dec. 2.

Butler, Willard J., Cincinnati, Ohio. Program device for player musical instruments and program strip therefor. 1,783,375; Dec. 2.

Button, George W., Corporation. (See Sierad, Milton, assignor.)

Byington, James A., Orlando, Fla. Fruit-grading table. 1,783,700; Dec. 2.

Cahoon, Edward E., assignor to Racine Confectioners' Machinery Company, Racine, Wis. Chocolate-molding machine. 1,783,402; Dec. 2.

Callis, D. M., et al. (See Carter, Samuel C., assignor.)

Camco Scale Corporation. (See Chambers, Leverett D., assignor.)

Cameron, William J., Chicago, Ill. Optical instrument. 1,783,461; Dec. 2.

Candee, Zenas P., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Connection. 1,783,403; Dec. 2.

Candee, Zenas P., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Gauging mechanism. 1,783,404; Dec. 2.

Canny, James, and H. Blondeau, Seattle, Wash. Tube-flanging wrench. 1,783,639; Dec. 2.

Card Display Inc. (See O'Rourke, Tex, assignor.)

Carlson, John W., assignor to Hedman Manufacturing Company, Chicago, Ill. Check protector. 1,783,182; Dec. 2.

Carlson, John W., assignor to The Hedman Manufacturing Company, Chicago, Ill. Check protector. 1,783,219; Dec. 2.

Carlsson, Carl V., Upplands-Vasby, Sweden. Cooking apparatus. 1,783,601; Dec. 2.

Carr, Charles W., Meadow Grove, Nebr. Valve-spring lifter. 1,783,827; Dec. 2.

Carson, John E. (See Beeson, Joseph W., assignor.)

Carter Carburetor Corporation. (See Bicknell, George M., assignor.)

Carter, Emmett F., and H. E. Allen, Schenectady, N. Y., assignors to General Electric Company. System of distribution. 1,783,904; Dec. 2.

Carter, Samuel C., assignor of thirty-five per cent to R. F. Belcher, Los Angeles, twenty per cent to W. H. Maxwell, Beverly Hills, and ten per cent to D. M. Callis, Long Beach, Calif. Power transmission. 1,783,533; Dec. 2.

Celander, Philip A., assignor to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Liquid-fuel-burning device for domestic purposes. 1,783,405; Dec. 2.

Celanese Corporation of America. (See Dreyfus, C., and Schneider, assignors.)

Celanese Corporation of America. (See Ellis, G. H., Olpin, and Walker, assignors.)

Chamberlain, George L., Chicago, Ill. Multiple connecting device. 1,783,220; Dec. 2.

Chambers, Laura A., St. Louis, Mo. Hospital appliance. 1,783,640; Dec. 2.

Chambers, Leverett D., assignor to Camco Scale Corporation, New York, N. Y. Weighing-scale casing. Des. 82,659; Dec. 2.

Chardard, Jean B. D. L., Paris, France, assignor to Risler Corporation of America, Kansas City, Mo. Portable heat-exchanging apparatus. 1,783,355; Dec. 2.

Chase, Elroy A., Northfield, assignor to Rock of Ages Corporation, Burlington, Vt. Producing an ornamental surface on granite. 1,783,828; Dec. 2.

Cheatham Electric Switching Device Co. et al. (See Richterkessing, Frank H., assignor.)

Chicago Steel and Wire Company. (See Green, J. Birchard, assignor.)

Cihulas, Stephen E., Bridgeport, Conn. Ventilator. 1,783,406; Dec. 2.

Clark, John M., New York, N. Y. Emergency feeder device for submarines. 1,783,221; Dec. 2.

Clemons, Harry K., St. Paul, Minn. Excavating, elevating, and loading machine. 1,783,462; Dec. 2.

Cleveland Rock Drill Company, The. (See Renfer, John E., assignor.)

Cleveland Rock Drill Company, The. (See Richardson, Led L., assignor.)

Clizbe, Floyd O., Chicago, Ill. Electromagnetic brake. 1,783,280; Dec. 2.

Coffman, S. M., et al. (See Reed, Andrew H., assignor.)

Cohn & Rosenberger, Inc. (See Dauer, Ernest I., assignor.)

Cohn & Rosenberger, Inc. (See Marcher, Royal, assignor.)

Collins, Charles L., and J. V. Anzulovic, Omaha, Nebr. Adjustable slicing machine. 1,783,222; Dec. 2.

Colman, Howard D. (See Stewart, Duncan J., assignor.)

Columbia Ribbon & Carbon Manufacturing Company. (See Dixon, Harold W. A., assignor.)

Columbia Steel Equipment Company. (See Bergmann, Philip, assignor.)

Columbus Phonograph Company. (See Prescott, John O., assignor.)

Commercial Shearing and Stamping Company, The. (See Proctor, Robert V., assignor.)

Commonwealth Electric Company, The. (See Schorr, P. C., and Syring, assignors.)

Condit Electrical Manufacturing Corporation. (See Burnham, George A., assignor.)

Cone, James H., Rosiland, N. J., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,783,559; Dec. 2.

Conley, Annie, Eau Claire, Wis. Liquid cooler. 1,783,641; Dec. 2.

Conn, Robert W. (See Ferguson, J. E., Conn, and Hoffman.)

Connolly, Michael M., Sherman, Calif. Roof paint. 1,783,702; Dec. 2.

Conover Company, The. (See Watt, E. D., and Conover, assignors.)

Conover, George W. (See Watt, E. D., and Conover.)

Conway, Irvin M., and T. M. Lawson, assignors to Journal-Box Servicing Corporation, Indianapolis, Ind. Machine for cleaning journal-box waste. 1,783,407; Dec. 2.

Cook, Herbert R., assignor to Jefferson Electric Company, Chicago, Ill. Conduit clamp for an outlet box. 1,783,356; Dec. 2.

Cook, Herbert R., assignor to Jefferson Electric Company, Chicago, Ill. Universal clamp for outlet boxes. 1,783,408; Dec. 2.

Cook, Herbert R., assignor to Jefferson Electric Company, Chicago, Ill. Combined conduit clamping and bushing device. 1,783,409; Dec. 2.

Cook, Walter M., Ludlow, Vt., assignor to International Combustion Engineering Corporation, New York, N. Y. Mechanical separator. 1,783,357; Dec. 2.

Cooke, Thomas S., and J. E. Rouse, Casper, Wyo., assignors to Standard Oil Company, Whiting, Ind. Storage of oils. 1,783,701; Dec. 2.

Copell, Daniel, Atlantic City, N. J. Burglarproof lock. 1,783,905; Dec. 2.

Cortese, Nicholas. (See Richards, J., and Cortese.)

Cottrell, C. B., & Sons Company. (See Barber, Howard M., assignor.)

Cowell, Robert F., Teaneck, N. J., assignor to International Motor Company, New York, N. Y. Shock-insulated union and pipe strap. 1,783,410; Dec. 2.

Cox, James D., Cape May, N. J. Potato-grading machine. 1,783,496; Dec. 2.

Cox, Julian H., Newton, Mass., assignor to The Mechanical Rubber Company. Valve. 1,783,281; Dec. 2.

Crawford, William E., Wauwatosa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Electrically welding tubular articles. 1,783,411; Dec. 2.

Crites, Joe, and W. A. Koren, Evanston, assignors to The Raymond Brothers Impact Pulverizer Co., Chicago, Ill. Automatic temperature control in pulverizing mills. 1,783,358; Dec. 2.

Crowe, John J., Westfield, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Method and apparatus for testing cylinders. 1,783,412; Dec. 2.

Crowell, Sarah E., and G. H. Blake, New York, N. Y. Bookcase. 1,783,703; Dec. 2.

Crowley, John C., Cleveland Heights, assignor to The Dill Manufacturing Company, Cleveland, Ohio. Valve insides. 1,783,327; Dec. 2.

Cummings, James D., Houston, Tex. Attachment for tractors. 1,783,282; Dec. 2.

Curtis, John C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve for rock drills 1,783,829; Dec. 2.

Cuthbert, William R. (See Sheaffer, W. A., and Cuthbert.)

Cutler-Hammer, Inc. (See Meuer, George J., assignor.)

Cutler-Hammer Inc. (See Seeger, Edwin W., assignor.

Cutler-Hammer, Inc. (See Tregoning, William C., assignor.)

Cypress Novelty Corporation et al. (See Reisert, Mathias, assignor.)

Dalton, Nelson W., Bath, assignor of three-fourths to Pequod Realty Corporation, New York, N. Y. Aerofoil construction. 1,783,413; Dec. 2.

Damelio, Joseph, Youngstown, Ohio. Flowerpot holder. Des. 82,660; Dec. 2.

Damron, Milton H., Long Beach, Calif. Vaginal speculum. 1,783,602; Dec. 2.

Daniels, Joseph S., assignor to Daniels Manufacturing Company, Rhinelander, Wis. Dispensing device. 1,783,414; Dec. 2.

Daniels Manufacturing Company. (See Daniels, Joseph S., assignor.)

Darche, Albert A. A., Algiers, Algeria. Antiexplosive means with great turbulence for explosion motors. 1,783,603; Dec. 2.

Darqué, Etienne, Clichy, France. Machine for opening tins of canned goods. 1,783,534; Dec. 2.

Dauer, Ernest I., Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y. Ornamental device. 1,783,223; Dec. 2.

Davidson, Arthur P., Odessa, Tex. Lifting device for motor vehicles. 1,783,224; Dec. 2.

Davidson, William D., assignor to Emsco Derrick & Equipment Company, Los Angeles, Calif. Crown block. 1,783,328; Dec. 2.

Davidson, William D., assignor to Emsco Derrick & Equipment Company, Los Angeles, Calif. Draw works for use with hild drives. 1,783,914; Dec. 2.

De Freece, G. A. (See Doss, Jesse L., assignor.)

Dezener, Gustave O., Brooklyn, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,783,604; Dec. 2.

Dehle, Otto T., Watertown, assignor to Mult-Hydro Washing Machine Company, Boston, Mass. Washing machine. 1,783,415; Dec. 2.

De La Mare, Albert, San Francisco, Calif. Fire truck. Des. 82,661; Dec. 2.

Della, Ernest, assignor to Walter J. McGuigan, Rochester, N. Y. Pipe. 1,783,605; Dec. 2.

De Lore, Casper P., and B. B. McHan, St. Louis, Mo.; said McHan assignor to said De Lore. Treating barytes. 1,783,778; Dec. 2.

Demeur, Emanuel. (See Karabatsos, Peter N., assignor.)

Deming Company, The. (See Mueller, Alexander V., assignor.)

Demuth, Wm., & Co. (See Hutcheson, Ray R., assignor.)

Denmark, Albert C., and L. O. Bryant, Austin, Tex. Kitchen utensil. 1,783,830; Dec. 2.

Denney, William F. (See Miller, Felix B., assignor.)

Detroit Steel Products Company. (See Loucks, James F., assignor.)

De Witt, William J., assignor to Shoe Form Co., Inc., Auburn, N. Y. Process of and apparatus for molding hollow lasts. 1,783,915; Dec. 2.

Dibble, Claude M., assignor to Moore Brothers Company, Joliet, Ill. Broiler. 1,783,183; Dec. 2.

Dicks, Thomas A., assignor, by mesne assignments, to Pittsburgh Screw & Bolt Company, Pittsburgh, Pa. Propeller. 1,783,225; Dec. 2.
Dictaphone Corporation. (See King, Henry J., assignor.)
Dictaphone Corporation. (See Worrell, Howard S., assignor.)
Dill Manufacturing Company, The. (See Crowley, John C., assignor.)
Dixon, Harold W. A., Hollis, N. Y., assignor to Columbia Ribbon & Carbon Manufacturing Company, Inc., Glen Cove, Long Island. Wrapping machine. 1,783,226; Dec. 2.
Dockstader, De Witt, Johnston, N. Y. Device for measuring the inseams of men's trousers and height of waistbands. 1,783,906; Dec. 2.
Domkee, John H., assignor to The Wire Novelty Manufacturing Co., West Haven, Conn. Button loop. 1,783,497; Dec. 2.
Dorneth, Julius, Berlin-Konradshohe, assignor to the firm Typograph-Gesellschaft m. b. H., Berlin, Germany. Matrix-setting and type-line-casting machine. 1,783,704; Dec. 2.
Dornier, Claudius, assignor to the firm: Dornier-Metalbauten G. m. b. H., Friedrichshafen-on-the-Bodensee, Germany. Starting of large flying machines. 1,783,227; Dec. 2.
Dornier-Metalbauten G. m. b. H. (See Dornier, Claudius, assignor.)
Doss, Jesse L., Evanston, assignor of forty-eight per cent to G. A. De Freece, Midwest, Wyo. Tire chain. 1,783,872; Dec. 2.
Dos Santos, Roal, Honolulu, Hawaii. Merry-go-round. 1,783,586; Dec. 2.
Dovel, G. P. (See Dovel, James P., assignor.)
Dovel, James P., Birmingham, Ala., assignor to G. P. Dovel. Blast furnace. 1,783,416; Dec. 2.
Downie, Robert R., assignor to Keystone Driller Company, Beaver Falls, Pa. Excavator scoop. 1,783,831; Dec. 2.
Draper, Clare H., assignor to Draper Corporation, Hopedale, Mass. Let-off mechanism for looms. 1,783,779; Dec. 2.
Draper Corporation. (See Bass, Earl E., assignor.)
Draper Corporation. (See Draper, Clare H., assignor.)
Draper Corporation. (See Kearsley, Richard A., assignor.)
Draper Corporation. (See O'Brien, Patrick F., assignor.)
Dreyfus, Camille, New York, N. Y. Printing fabrics. 1,783,606; Dec. 2.
Dreyfus, Camille, New York, N. Y., and G. Schneider, Cumberland, Md., assignors to Celanese Corporation of America. Treating cellulose material. 1,783,184; Dec. 2.
Dreyfus, Henry, London, England. Coloration of materials made of or containing cellulose derivatives. 1,783,607; Dec. 2.
Drissner, Alfred E. (See Petsche, G. B., and Drissner.)
Dryden, Harry R., Pittsburgh, Pa. Safety holding device for flash lights. 1,783,874; Dec. 2.
Dubbs, Carbon P., Wilmette, assignor to Universal Oil Products Company, Chicago, Ill. Apparatus for producing lower-boiling-point hydrocarbons. 1,783,185; Dec. 2.
Dubbs, Carbon P., Wilmette, assignor to Universal Oil Products Company, Chicago, Ill. Cracking petroleum oil. 1,783,228; Dec. 2.
Dubbs, Carbon P., Wilmette, assignor to Universal Oil Products Company, Chicago, Ill. Process and apparatus for treating oils. 1,783,229; Dec. 2.
Duff, Charles L., Columbus, Ohio. Exercising machine. 1,783,376; Dec. 2.
Duff, James G. (See Rehwold, W. C., and Duff.)
Duncan, Thomas P., jr., Newport News, Va. Furniture caster. 1,783,873; Dec. 2.
Dunham, George W., assignor to Whirldry Corporation, New Haven, Conn. Laundry machine. 1,783,186; Dec. 2.
Du Pont, E. I. de Nemours & Company. (See Engelmann, Max, assignor.)
Du Pont, E. I., de Nemours & Company. (See Woodbury, Clifford A., assignor.)
Durgin, Charles B., A. B. Gerber, Anniston, Ala., and P. Logue, St. Louis, Mo., assignors, by mesne assignments, to Swann Research, Inc., Birmingham, Ala. White anhydrous calcium sulphate and producing same. 1,783,417; Dec. 2.
Dyeing Processes Corporation. (See Hebden, John C., assignor.)
Dyer, Frank L., New York, N. Y. Making phonograph records. 1,783,498; Dec. 2.
Eastburn, Samuel L., Sloatsburg, assignor to Ramapo Ajax Corporation, New York, N. Y. Switch stand. 1,783,283; Dec. 2.
Easter, Henry F., Hayden, Ariz., assignor to American Smelting and Refining Company, New York, N. Y. Furnace cooling by steam. 1,783,284; Dec. 2.
Ecker, Mathilda. (See Mandy, James, assignor.)
Eclipse Petrol Economiser System Company, The. (See Godward, Ernest R., assignor.)
Edmonds, John H., assignor of one-third to J. E. Bellam, Seattle, Wash. Valve. 1,783,329; Dec. 2.
Edwards, Harold. (See Finnegan, H. L., and Lanham, assignors.)
Edwards, Harold C., Kansas City, Mo. Radiocabinet or similar article. Des. 82,662; Dec. 2.
Edwards, William W., Los Angeles, Calif. Saw guide. 1,783,330; Dec. 2.
Efcolite Corporation. (See von Nessen, Walter, assignor.)
Egloff, Gustav, and H. P. Benner, assignors to Universal Oil Products Company, Chicago, Ill. Cracking resins. 1,783,230; Dec. 2.
Egloff, Gustav, and J. C. Morrell, assignors to Universal Oil Products Company, Chicago, Ill. Converting petroleum oil. 1,783,231; Dec. 2.
Ehrenfeld, Ralph, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company. Lubricating device. 1,783,535; Dec. 2.
Eight Wheel Motor Vehicle Company, The. (See Fageol, Rollie B., assignor.)
Eilers, Frank B., Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company. Liquid-dispensing apparatus. 1,783,916; Dec. 2.
Eisenmann, Karl, Ludwigshafen-on-the-Rhine, and F. Bergmann, Mannheim, assignors to I. G. Farbenindustrie Aktinegesellschaft, Frankfort-on-the-Main, Germany. Magnetic core. 1,783,560; Dec. 2.
Eisenmann, Karl, Ludwigshafen-on-the-Rhine, and F. Bergmann, Mannheim, assignors to I. G. Farbenindustrie Aklengesellschaft, Frankfort-on-the-Main, Germany. Production of improved magnetic cores. 1,783,561; Dec. 2.
Ellerbusch, Hermann, Dortmund-Eving, Germany. Internal-combustion engine. 1,783,499; Dec. 2.
Elliott, Charles W., Seymour, Ind. Wood-bending machine. 1,783,187; Dec. 2.
Ellis, George H., H. C. Olpin, and E. E. Walker, Spondon, near Derby, England, assignors to Celanese Corporation of America. Treatment of fabrics. 1,783,608; Dec. 2.
Ellis, Paul W., Clearwater, Fla. Punctureproof legging. 1,783,832; Dec. 2.
Elms, John D., St. George, assignor, by mesne assignments, to Felms Revo Corporation, New York, N. Y. Motion-picture camera. 1,783,463; Dec. 2.
Elsner, Alois, Brunn, Czechoslovakia. Nonslip device for use with skis. 1,783,833; Dec. 2.
Elwell-Parker Electric Company, The. (See Abbe, Edward J., assignor.)
Ely & Walker Dry Goods Company. (See Irwin, Carl C., assignor.)
Emerson, George H., and J. T. Tatum, Baltimore, Md. Railway-car wheel. 1,783,705; Dec. 2.
Emsco Derrick & Equipment Company. (See Davidson, William D., assignor.)
Emsco Derrick & Equipment Company. (See Gunn, R. W., and Thompson, assignors.)
Engelmann, Max, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making disinfectant compositions. 1,783,377; Dec. 2.
Englander Spring Bed Company. (See Bebry, Percival P., assignor.)
Erie City Iron Works. (See Kaemmerling, Gustav H., assignor.)
Ernst, Alfred F. (See La Mont, W. D., and Ernst.)
Errett, Albert J., and C. P. Pesek, assignors to Hen Houses, Inc., Minneapolis, Minn. Restaurant building. Des. 82,663; Dec. 2.
Evans, Amos J., Minneapolis, Minn. Driving-gear mechanism for motor vehicles. 1,783,780; Dec. 2.
Everett, Edward A., Long Island City, N. Y. Insulation block for electric terminals. Des. 82,664; Dec. 2.
Everett, William H. H., Newton Falls, Ohio. Vehicle sanding device. 1,783,834; Dec. 2.
Excel Magneto Co. (See Reis, Curt F., assignor.)
Eyre, Joseph R., Hull, England. Pressure-reducing valve. 1,783,506; Dec. 2.
Fageol, Rollie B., Los Angeles, assignor to The Eight Wheel Motor Vehicle Company, San Francisco, Calif. Road vehicle. Re17,889; Dec. 2.
Fahrney, Emery H., Chicago, Ill. Propelling mechanism for boats. 1,783,331; Dec. 2.
Falk, Edward H., Philadelphia, Pa. Air preheater for manifolds. 1,783,781; Dec. 2.
Farbwerke Vorm, Meister Lucius and Bruning. (See Rössner, H. Steindorff, and Pfaff, assignors.)
Faries Manufacturing Company. (See Peters, Henry M., assignor.)
Farrand, Harry M., Los Angeles, Calif. Combined radio receiver cabinet and clock. Des. 82,665; Dec. 2.
Farrel-Birmingham Company. (See Schnuck, Carl F., assignor.)
Felms Revo Corporation. (See Elms, John D., assignor.)
Fenton, Elmer B., and W. C. Fenton, Cedar Rapids, Iowa. Curtain stretcher. 1,783,835; Dec. 2.
Fenton, Wilbur C. (See Fenton, Elmer B. and W. C.)
Ferdinand, Louis, Drifton, Pa. Bumper. 1,783,875; Dec. 2.
Ferguson, John E., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Base-pin-staking machine. 1,783,706; Dec. 2.
Ferguson, John E., Bloomfield, R. W. Conn, Vauxhall, and W. A. Hoffman, Bloomfield, N. J., assignors to Westinghouse Lamp Company. Automatic soldering machine. 1,783,642; Dec. 2.
Ferris, William D., assignor to Frantz Manufacturing Co., Sterling, Ill. Garage-door construction. 1,783,378; Dec. 2.
Ferris, William S., Elkhart, Ind., and E. C. Harter, Sturgis, Mich. Chair. Des. 82,666; Dec. 2.
Fidler, Harry E. (See Tenney, P. L., and Fidler.)

Field, Edward A., jr. (See Field, Edward A., and E. A., jr.)
Field, Edward A. and E. A., jr., Chicago, Ill. Draft stabilizer. 1,783,418; Dec. 2.
Fiesselmann, Frederich. (See Tweddell, Oscar G., assignor.)
Finlayson, Frank E., Schenectady, N. Y., assignor to General Electric Company. Sewing machine. 1,783,836; Dec. 2.
Finn, Sidney J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Washer-loading device. 1,783,232; Dec. 2.
Finn, Sidney J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Washer-loading device. 1,783,233; Dec. 2.
Finnegan, Herman L., and P. O. Lanham, assignors to H. Edwards, Kansas City, Mo. Radiocabinet or similar article. Des. 82,667; Dec. 2.
Fireproof Wall Company. (See Makowski, John F., assignor.)
Firestone, Floyd, assignor to The Regents of the University of Michigan, Ann Arbor, Mich. Electrical apparatus. 1,783,234; Dec. 2.
Fischer, Ernst. (See Thiess, K., and Fischer.)
Fitch, Fred W., Des Moines, Iowa. Dispenser-charge-regulating device. 1,783,419; Dec. 2.
Fitz-Empire Double Pivot Last Company. (See Lucas, Harry W., assignor.)
Fitz-Empire Double Pivot Last Company. (See Thomas, George C., assignor.)
Fleer, Harry H., Quincy, assignor to Orbon Stove Co., Belleville, Ill. Stove. Des. 82,668; Dec. 2.
Floding, W. E., Company, The. (See Shaw, Thomas E., assignor.)
Floyd, Ray H., assignor to Unique Spark Plug Cleaner Co., Chicago, Ill. Slack-take-up device. 1,783,359; Dec. 2.
Flynn, Charles C., Detroit, Mich. Sound amplifier. 1,783,360; Dec. 2.
Follain, Raoul F., Colombes, assignor to Société Anonyme pour l'Exploitation des Procédés Maurice Leblanc-Vickers, Paris, France. Refrigerating machine. 1,783,464; Dec. 2.
Forbstein, Bessie G., Los Angeles, Calif. Meter for sewing machines. 1,783,562; Dec. 2.
Ford, Henry, assignor to Ford Motor Company, Dearborn, Mich. Automobile ventilating construction. 1,783,501; Dec. 2.
Ford Motor Company. (See Ford, Henry, assignor.)
Ford Motor Company. (See Sheldrick, Laurence S., assignor.)
Forshee, Frank F., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Door catch. 1,783,563; Dec. 2.
Forssell, Carl, Stockholm, Sweden. Carcass for buildings. 1,783,609; Dec. 2.
Forster, Percy M., Berkeley, Calif. Dental gas burner. Des. 82,669; Dec. 2.
Fort Wayne Engineering and Manufacturing Company. (See Tannehill, Vernon L., assignor.)
Foster Machine Company. (See McKean, John O., assignor.)
Fox, John H., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Fluid-cooled roll. 1,783,465; Dec. 2.
Frame, John. (See Broge, William F., assignor.)
Franklin Simon & Company. (See Long, Dorothy, assignor.)
Frantz Manufacturing Co. (See Ferris, William D., assignor.)
Freiburghouse, Edward H., Schenectady, N. Y., assignor to General Electric Company. High-voltage apparatus. 1,783,837; Dec. 2.
Freund, Herman R., assignor to Intertype Corporation, Brooklyn, N. Y. Punching matrices. 1,783,838; Dec. 2.
Frick, George W., Baltimore, Md. Refrigerator-door frame. 1,783,235; Dec. 2.
Friedmann, Firm of Alex. (See Hajek, Otto, assignor.)
Friedrich, Hermann. (See Bögemann, M., and Friedrich.)
Friend, Robert O., Chicago, Ill. Construction of zeolite water softeners. 1,783,466; Dec. 2.
Frischke, Max. (See Schulz, W., Frischke, and Schiffmann.)
Fry, William H., Kansas City, Mo. Attachment for porch swings. 1,783,502; Dec. 2.
Gaire, Paul E., New York, N. Y. Hair-treating machine. 1,783,610; Dec. 2.
Gelassi, Pasquale, New York, N. Y. Compound floor strip. 1,783,782; Dec. 2.
Gammeter, John R. (See MacDonald, Frank J., assignor.)
Gamon, Ernest E., Prince Bay, N. Y. Water meter. 1,783,707; Dec. 2.
Garcia, Gaspar, Habana, Cuba. Hinged rack. 1,783,708; Dec. 2.
Garey, Charles Q., Windsor, Vt., assignor to The National Acme Company, Cleveland, Ohio. Chuck-operating mechanism for automatic spindle screw machines. 1,783,565; Dec. 2.
Garey, Charles Q., Windsor, Vt., assignor to The National Acme Company, Cleveland, Ohio. Spindle-stopping mechanism for metal-working machines. 1,783,566; Dec. 2.
Garno, George E., assignor to The Heald Machine Company, Worcester, Mass. Chuck. 1,783,420; Dec. 2.
Garrett, Edmund A., Brightwaters, assignor of one-half to F. C. Schwab, Mount Vernon, N. Y. Gas generating and burning apparatus. 1,783,564; Dec. 2.
Garrett, Milan W., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Ultra-violet lamp. 1,783,643; Dec. 2.
Gasmesserfabrik Mainz, Elster & Co. (See Meyer, Georg, assignor.)
Gaston, Harry W., New Rochelle, assignor to Boyce Automatic Oil Burner Corporation, New York, N. Y. Oil-burner construction. 1,783,567; Dec. 2.
Gauvin, Henri, Ottawa, Ontario, Canada. Roof covering. 1,783,839; Dec. 2.
General Aniline Works, Inc. (See Lüttringhaus, A., and Kačer, assignors.)
General Aniline Works, Inc. (See Schmidt, M. P., and Limpach, assignors.)
General Aniline Works, Inc. (See Thiess, K., and Fischer, assignors.)
General Electric Company. (See Allen, Hugh E., assignor.)
General Electric Company. (See Barton, Fred C., assignor.)
General Electric Company. (See Bird, Lester F., assignor.)
General Electric Company. (See Carter, E. F., and Allen, assignors.)
General Electric Company. (See Finlayson, Frank E., assignor.)
General Electric Company. (See Freiburghouse, Edward H., assignor.)
General Electric Company. (See Halvorson, Cromwell A. B., assignor.)
General Electric Company. (See Kienle, R. H., and Adams, assignors.)
General Electric Company. (See Lennox, Thomas C., assignor.)
General Electric Company. (See Loebe, W.-W., Ledig, and Asmussen, assignors.)
General Electric Company. (See Tritle, John F., assignor.)
General Electric Company. (See Wright, James G. E., assignor.)
General Motors Corporation (See Kettering, Charles F., assignor.)
General Motors Corporation. (See King, Clarence E., assignor.)
General Motors Corporation. (See Kjellberg, Anders W., assignor.)
General Motors Corporation. (See Landers, Charles H., assignor.)
General Motors Corporation. (See Sterling, Claude H., assignor.)
General Motors Corporation. (See Stranahan, Samuel A., assignor.)
General Motors Corporation. (See Tenney, P. L., and Fidler, assignors.)
General Motors Corporation. (See Trumble, John T., assignor.)
General Motors Research Corporation. (See Mougey, Harry C., assignor.)
General Motors Research Corporation. (See Sterling, Claude H., assignor.)
General Oil Products Company. (See Brink, W., and Hess, assignors.)
George, James S., and R. S. Sperry, assignors to Scovill Manufacturing Company, Waterbury, Conn. Coating metal articles. 1,783,188; Dec. 2.
Gerber, Arthur B. (See Durgin, C. B., Gerber, and Logue.)
Gesellschaft für Drahtlose Telegraphie, m. b. H. (See Meissner, Alexander, assignor.)
Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electric switch. 1,783,421; Dec. 2.
Geyer, Benjamin F., and R. J. Jauch, assignors to Wayne Company, Fort Wayne, Ind. Visible flow indicator. 1,783,644; Dec. 2.
Gibson, George H. D., Ottawa, Ontario, Canada. Music-instruction device. 1,783,361; Dec. 2.
Gilbert & Barker Manufacturing Company. (See Jacob, Herman A., assignor.)
Gilbert, George L., Lakewood, Ohio. Combined radio and phonograph cabinet. Des. 82,717; Dec. 2.
Girdler Corporation, The. (See Bottoms, Robert R., assignor.)
Godward, Ernest R., New York, N. Y., assignor to The Eclipse Petrol Economiser System Company, Limited, Christchurch, New Zealand. Auxiliary heater and vaporizer. 1,783,536; Dec. 2.
Goeller, Lawrence E., Circleville, Ohio. Necktie holder. 1,783,840; Dec. 2.
Gohring, Herman C., Estacada, Oreg. Pump. 1,783,611; Dec. 2.
Goldacker, Paul, and M. Schmidt, Dessau in Anhalt, Germany, assignors, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. X-ray dental film package. 1,783,467; Dec. 2.
Goldberg, Sifton A., Brooklyn, N. Y. Garment hanger. 1,783,709; Dec. 2.
Goldberg, Solomon H., assignor to The Hump Hairpin Manufacturing Co., Chicago, Ill. Display card or similar article. Des. 82,670; Dec. 2.
Golding Bros. Company. (See Sherover, Max, assignor.)

Goldsborough, Shirley L., East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company. Alternating-current relay. 1,783,568; Dec. 2.
Goodspeed, Jack L., assignor to Prescott Iron Works, Seattle, Wash. Trim-saw lift unit. 1,783,362; Dec. 2.
Goodwin, William G., Royal Oak, Mich. Mold. 1,783,285; Dec. 2.
Gosch, William H., Reading, and A. Kohout, Shillington, assignors to The Nolde and Horst Company, Reading, Pa. Hank-bundling device. 1,783,236; Dec. 2.
Goudsmit, Maurits J., The Hague, Netherlands. Music-time indicator. 1,783,537; Dec. 2.
Gould, James O., Summerville, Pa. Rail nut lock. 1,783,876; Dec. 2.
Graham, Oakley J. (See Graham, Ota T., and O. J.)
Graham, Ota T., and O. J. Graham, Richmond, Va. Producing, transporting, and handling cementitious material. 1,783,332; Dec. 2.
Granell, George P., Long Island City, N. Y. Strip for terrazzo floors and like structures. 1,783,783; Dec. 2.
Greegor, Ralph H., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Trolley bridge. 1,783,710; Dec. 2.
Green, Earl F., York, Pa. Towing mechanism. 1,783,189; Dec. 2.
Green, J Birchard, assignor to Chicago Steel and Wire Company, Chicago, Ill. Making cement-coated wire. 1,783,613; Dec. 2.
Greer, Leslie W., Phoenix, Ariz. Sprinkler. 1,783,237; Dec. 2.
Gretsch & Brenner, Inc. (See Brenner, Fred A., assignor.)
Gribojedoff, Nicolai, Teddington, England. Variable-speed and reversing epicyclic gear. 1,783,877; Dec. 2.
Grimm, Albert E. (See Windsor, George W., assignor.)
Griswold, Walter R., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,783,614; Dec. 2.
Grob, Armin R., Milwaukee, Wis. System for handling freight and apparatus therefor. 1,783,363; Dec. 2.
Grob, Henry, Piqua, Ohio. Automobile signal. 1,783,422; Dec. 2.
Grondahl, Lars O., Pittsburgh, and L. F. Howard, Edgewood, assignors to The Union Switch & Signal Company, Swissvale, Pa. Instrument inclosed in nonmetallic housings. 1,783,784; Dec. 2.
Gross, Benjamin & Edward J., Co. (See Gross, Edward J., assignor.)
Gross, Edward J., New Rochelle, assignor to Benjamin & Edward J. Gross Co., Inc., New York, N. Y. Finger ring or article of similar nature. Des. 82,671; Dec. 2.
Gross, Edward J., New Rochelle, assignor to Benjamin & Edward J. Gross Co., Inc., New York, N. Y. Finger ring or article of similar nature. Des. 82,672; Dec. 2.
Grout, Martin B., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Control device. 1,783,645; Dec. 2.
Grundon, George F., Middletown, and F. E. Knight, High Spire, Pa. Means to facilitate the electrical bonding of railway rails. 1,783,238; Dec. 2.
Gullborg, John S., Chicago, assignor to Alemite Die Casting & Mfg. Co., Woodstock, Ill. Handle for door of automobile or the like. Des. 82,673; Dec. 2.
Gullborg, John S., Chicago, assignor to Alemite Die Casting & Mfg. Co., Woodstock, Ill. Handle for automobile-window lifter or the like. 82,674; Dec. 2.
Gullborg, John S., Chicago, assignor to Alemite Die Casting & Mfg. Co., Woodstock, Ill. Handle for automobile-window lifter or the like. Des. 82,675; Dec. 2.
Gullborg, John S., Chicago, assignor to Alemite Die Casting & Mfg. Co., Woodstock, Ill. Handle escutcheon for automobile hardware or the like. Des. 82,676; Dec. 2.
Gunn, Robert W., and W. A. S. Thompson, assignors, by mesne assignments, to Emsco Derrick & Equipment Company, Los Angeles, Calif. Pump. 1,783,615; Dec. 2.
Gurley, W. & L. E. (See Kapps, Robert E., assignor.)
Gustafson, Edwin A., assignor to A C Spark Plug Company, Flint, Mich. Speedometer drive clamp. 1,783,917; Dec. 2.
Habicht, George C., Snyder, N. Y. Rail-tie plate and fastener. 1,783,841; Dec. 2.
Habicht, Sidney J., Buffalo, N. Y. Door latch. 1,783,785; Dec. 2.
Hachmuth, Henry C., Comstock Park, Mich. Stepladder. 1,783,616; Dec. 2.
Hajek, Otto, assignor to the firm of Alex. Friedmann, Vienna, Austria. Stop valve. 1,783,646; Dec. 2.
Hall, C. M., Lamp Company. (See Bamford, Frank L., assignor.)
Hall, Frederick B., Richmond, Va. Combined pipe-tapping and plug-setting machine. 1,783,503; Dec. 2.
Halvorson, Cromwell A., B., Lynn, Mass., assignor to General Electric Company. Lamp. 1,783,468; Dec. 2.
Hamilton-Grapes, George, Murrumbeena, Australia. Carburation of hydrocarbon fuel for internal-combustion engines. 1,783,612; Dec. 2.
Hamilton, Joseph B., South Pasadena, Calif. Signal. 1,783,504; Dec. 2.
Hamilton, Wade C., Vicksburg, Miss. Combination brace and bit drill. 1,783,786; Dec. 2.
Hanna, Clinton R., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrodynamic signal device. 1,783,569; Dec. 2.
Hanny, Charles E., Unionville, assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Switch-box latch and seal. 1,783,711; Dec. 2.
Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Excavating machine. 1,783,787; Dec. 2.
Harding, Dana E., Melrose, assignor to Harding Engineering Company, East Boston, Mass. Shanking machine. 1,783,907; Dec. 2.
Harding Engineering Company. (See Harding, Dana E., assignor.)
Harper, Elmer E., Kansas City, Mo. Chemical-feed machine. 1,783,423; Dec. 2.
Harrison, Clifford E., assignor to American Engineering Company, Philadelphia, Pa. Grate construction. 1,783,878; Dec. 2.
Harter, Evan C. (See Ferris, W. S., and Harter.)
Hartford-Empire Company. (See Schroder, John E., assignor.)
Hartman, Emanuel W., Phoenix, Ariz. Condenser. 1,783,286; Dec. 2.
Hartmann, Otto H., assignor to Schmidt'sche Heissdampf-Gesellschaft mit beschrankter Haftung, Kassel-Wilhelmshohe, Germany. Multipressure boiler installation. 1,783,842; Dec. 2.
Harvey, Leo M., Los Angeles, Calif. Tie for metal straps. 1,783,239; Dec. 2.
Haselow, Frederick H., and C. Redig, Milwaukee, Wis. Vibratory screen. 1,783,617; Dec. 2.
Hatchett, Andrew H., sr., Cleveland, Ohio. Brush. 1,783,788; Dec. 2.
Hatfield, Schuyler C., Baltimore, Md. Resilient disk wheel. 1,783,469; Dec. 2.
Haverstick, Thomas E. (See Klugh, O. L., and Haverstick.)
Hayes, James J., Louisville, Ky. Wearing apparel. 1,783,505; Dec. 2.
Heald Machine Company, The. (See Garno, George E., assignor.)
Heald Machine Company, The. (See Woytych, Raymond M., assignor.)
Hebden, John C., assignor to Dyeing Processes Corporation, New York, N. Y. Treating yarn. 1,783,908; Dec. 2.
Heberlein & Co., A. G. (See Bodmer, Albert, assignor.)
Hector, Alexander B., Greenwich, near Sydney, New South Wales, Australia. Apparatus for producing color music or other spectacular luminous effects. 1,783,789; Dec. 2.
Hedman Manufacturing Company, The. (See Carlson, John W., assignor.)
Helzeby, Ralph O., assignor to A C Spark Plug Company, Flint, Mich. Speedometer. 1,783,918; Dec. 2.
Helmbold, Margaret L., and F. T. O'Malley, St. Paul, Minn. Lingerie suspender. 1,783,470; Dec. 2.
Hen Houses, Inc. (See Errett, A. J., and Pesek, assignors.)
Henglein, Friedrich A., Cologne-Deutz, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacture of metallic nitrates. 1,783,647; Dec. 2.
Herbsman, Abraham M., Huntington Park, Calif. Treating colloids. 1,783,471; Dec. 2.
Hernandez, Jesus G., Seattle, Wash. Portable lavatory. 1,783,712; Dec. 2.
Herskowitz, Adolf, & Son, Inc. (See Herskowitz, Joseph, assignor.)
Herskowitz, Joseph, Woodhaven, assignor to Adolf Herskowitz & Son, Inc., Brooklyn, N. Y. Overalls. 1,783,538; Dec. 2.
Hertel, Otto H., assignor to Old Ben Coal Corporation, Chicago, Ill. Carbonizing apparatus. 1,783,190; Dec. 2.
Hess, George L. (See Brink, W., and Hess.)
Hewitt, Edward R., Midvale, N. J., assignor to International Motor Company, New York, N. Y. Bus body. 1,783,424; Dec. 2.
Heyer, Don, Los Angeles, Calif. Massaging oscillator. Des. 82,677; Dec. 2.
Heyner, Fritz, assignor to Franz Kruckenberg, Hanover, Germany. Rail-supporting structure for long spans for high-speed suspended vehicles. 1,783,648; Dec. 2.
Hiers, Herbert A. (See Hiers, Ralph H. and H. A.)
Hiers, Ralph H. and H. A., assignors to Noble and Cooley Co., Granville, Mass. Snare drum. 1,783,843; Dec. 2.
Hilgendorf, Henry, Harvey, assignor to National Brick Company, Chicago, Ill. Brick-making machine and method. 1,783,287; Dec. 2.
Hill, Harry L., assignor to Rodwell Sign Company, Buffalo, N. Y. Packing cushion. 1,783,570; Dec. 2.
Hinrichs, Karl H., Winnetka, Ill. Oil-base insulating pan for internal-combustion engines. 1,783,472; Dec. 2.
Hitner, Harry F., Oakmont, Pa., assignor to Pittsburgh Plate Glass Company. Process and apparatus for regulating the temperature of glass withdrawn from a tank. 1,783,473; Dec. 2.
Hoehn, Anton. (See von Staden, H. A., and Hoehn.)
Hoffman, Walter A. (See Ferguson, J. E., Conn, and Hoffman.)
Hogg, William J., assignor to The National Acme Company, Cleveland, Ohio. Threading die. 1,783,539; Dec. 2.
Hogg, Wiliam J., and F. Neumann, assignors to The National Acme Company, Cleveland, Ohio. Die-chaser-grinding fixture. 1,783,540; Dec. 2.
Hogg, William J., and F. Neumann, assignors to The National Acme Company, Cleveland, Ohio. Tool holder. 1,783,541; Dec. 2.
Hohner, Jacob, Trossingen, Germany. Mouth organ. 1,783,173; Dec. 2.

Holm Company. (See Holm, John H., assignor.)
Holm, John H., assignor to Holm Company, Kenosha, Wis. Golf-teeing stand or similar device. Des. 82,678; Dec. 2.
Holman, Harry V., assignor to Adjustable Clamp Company, Chicago, Ill. Adjustable clamp. 1,783,713; Dec. 2.
Holmes, Grant, Danville, Ill. Steering mechanism for self-propelled vehicles. 1,783,288; Dec. 2.
Holt, Edwin M., West Durham, N. C., assignor to Whitin Machine Works, Whitinsville, Mass. Automatic feed control for cotton-opening machinery. 1,783,333; Dec. 2.
Holt, John W., Cleveland Heights, Ohio. Making electrically-welded tubing. 1,783,571; Dec. 2.
Homel, Charles L., Detroit, Mich. System for the generation and distribution of electric energy. 1,783,935; Dec. 2.
Homiller, Thomas C., Washington, D. C. Glass-cleaning device. 1,783,506; Dec. 2.
Hookless Fastener Company. (See Sundbrook, Gideon, assignor.)
Hoover Company, The. (See Hoover, Howard E., assignor.)
Hoover Company, The. (See White, Harry B., assignor.)
Hoover, Howard E., Glencoe, Ill., assignor to The Hoover Company. Dust-bag ring. 1,783,240; Dec. 2.
Hopkins, George W., Cleveland, Ohio. Motor heater. 1,783,289; Dec. 2.
Horning, Harry L., assignor to Waukesha Motor Company, Waukesha, Wis. Internal-combustion engine. 1,783,714; Dec. 2.
Horning, Harry L., assignor to Waukesha Motor Company, Waukesha, Wis. Internal-combustion engine. 1,783,715; Dec. 2.
Horton, Erwin C. (See Oishei, J. R., Hueber, Paulus, and Horton.)
Horton Manufacturing Company, The. (See Broadwell, H. S., and Thorpe, assignors.)
Horton Manufacturing Company, The. (See Lagerblade, Herbert C., assignor.)
Hotchkiss, Clifford, Milwaukee, Wis., assignor, by mesne assignments, to Time-O-Stat Controls Company. Sign flasher. 1,783,474; Dec. 2.
Hovenden, Alice H., et al, Executors. (See Kent, W. G., and Hovenden.)
Hovenden, Edward W. (See Kent, W. G., and Hovenden.)
Hovenden, Jack R., et al., executors. (See Kent, W. G., and Hovenden.)
Howard, Lemuel F. (See Grondahl, L. O., and Howard.)
Howell, James W., Cleveland, Ohio. Axial pulling tool. 1,783,649; Dec. 2.
Hoyt, Elmore S., assignor to Red Wing Union Stoneware Company, Red Wing, Minn. Poultry feeder. 1,783,790; Dec. 2.
Hoyt, Milton A., East Orange, N. J., assignor to Westinghouse Lamp Company. Locking device for lapping machines. 1,783,618; Dec. 2.
Hueber, Henry. (See Oishei, J. R., Hueber, Paulus, and Horton.)
Huffman Manufacturing Company, The. (See Wilson, R. G., and R. M., assignors.)
Hughes, Frederick G., assignor to The New Departure Manufacturing Company, Bristol, Conn. Assembling antifriction bearings. 1,783,791; Dec. 2.
Hulshizer, George W., Stewartsville, assignor to Ingersoll-Rand Company, Jersey City, N. J. Anchor for drilling mechanism. 1,783,290; Dec. 2.
Humason, John P., Houston, Tex. Valve mechanism. 1,783,291; Dec. 2.
Hume, William G., assignor to Keystone Steel & Wire Company, Peoria, Ill. Fish-trap structure. 1,783,716; Dec. 2.
Hump Hairpin Manufacturing Co., The. (See Goldberg, Solomon H., assignor.)
Hunter, John S., Coalinga, Calif. Double-acting pump. 1,783,425; Dec. 2.
Huntley, Reginald C., assignor to Sturgis Posture Chair Company, Sturgis, Mich. Adjustable chair. 1,783,426; Dec. 2.
Hutcheson, Ray R., Richmond Hill, N. Y., assignor to Wm. Demuth & Co. Bottle stopper. Des. 82,679; Dec. 2.
Huxford, Jere O., Perry, Fla. Turpentine apron. 1,783,650; Dec. 2.
I. G. Farbenindustrie Aktiengesellschaft. (See Beck, A., and Siebel, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Becker, Franz, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Bögemann, M., and Friedrich, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Eisemann, K., and Bergmann, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Henglein, Friedrich A., assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Langheinrich, Hellmuth, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Lappe, F., Koch, Pier, and Sauer, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Loehr, Oskar, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Marx, K., Behncke, and Brodersen, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Mittasch, A., and Müller, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See von Staden, H. A., and Hoehn, assignors.)
Ide, Walter D., Piqua, Ohio, assignor to B. V. D. Company, Inc., Baltimore, Md. Bathing suit. 1,783,174; Dec. 2.
Infelt, Orie. (See Morris, C., and Buck, assignors.)
Ingersoll-Rand Company. (See Curtis, John C., assignor.)
Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)
Ingersoll-Rand Company. (See Hulshizer, George W., assignor.)
Innes, George, Davenport, assignor to Innes Manufacturing Company, Bettendorf, Iowa. Grain-shocking mechanism. 1,783,241; Dec. 2.
Innes Manufacturing Company. (See Innes, George, assignor.)
International Combustion Engineering Corporation. (See Cook, Walter M., assignor.)
International Motor Company. (See Cowell, Robert F., assignor.)
International Motor Company. (See Hewitt, Edward R., assignor.)
International Motor Company. (See Jupp, William B., assignor.)
International Motor Company. (See Leipert, August H., assignor.)
International Patents Development Company. (See Newkirk, William B., assignor.)
International Seal and Knot Protector Co., The. (See Keidel, Frank, assignor.)
Intertype Corporation. (See Freund, Herman R., assignor.)
Intertype Corporation. (See Sperry, Samuel E., assignor.)
Inventia Patent-Verwertungs-Gesellschaft. (See Bilde, Tord. E. D., assignor.)
Irwin, Carl C., Kirkwood, assignor to Ely & Walker Dry Goods Company, St. Louis, Mo. Merchandise-display cabinet. Des. 82,680; Dec. 2.
Isaacson, William O., Chicago, Ill. Cooking utensil. 1,783,792; Dec. 2.
Israel, Henry H., Lansford, and G. Trussa, Nesquehoning, Pa. Coal-handling apparatus. 1,783,619; Dec. 2.
Jacob, Herman A., Holyoke, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Liquid-dispensing apparatus. 1,783,379; Dec. 2.
Jacobsen, Jens N., Alameda, Calif., assignor to The Pfaudler Co., Rochester, N. Y. Heat-transfer apparatus. 1,783,844; Dec. 2.
Jacobucci, Raphael, Cleveland, Ohio. Printing press. 1,783,942; Dec. 2.
Jacoby, Benjamin. (See King, C. B., Jacoby, and Shelton.)
Jauch, Robert J. (See Geyer, B. F., and Jauch.)
Jefferson Electric Company. (See Cook, Herbert R., assignor.)
Jennings, Irving C., South Norwalk, Conn. Sealing device for centrifugal pumps. 1,783,427; Dec. 2.
Jennings, Irving C., South Norwalk, Conn. Pressure-control mechanism for vacuum heating systems. 1,783,428; Dec. 2.
Johanning, Carlos F., Denison, Tex. Auxiliary base and switch attachment for telephones. 1,783,936; Dec. 2.
John, William J., Croydon, and H. Wright, jr., London, England; said Wright, jr., assignor to said John. Electric fuse. 1,783,242; Dec. 2.
Johnson, Allan W., Newark, N. J., assignor to Westinghouse Lamp Company. Wire-cutting mechanism. 1,783,620; Dec. 2.
Johnson, Charles D., assignor to Johnson Steel & Wire Company, Inc., Worcester, Mass. Apparatus for coating wire. 1,783,429; Dec. 2.
Johnson, Charles S., Champaign, Ill. Valve. 1,783,621; Dec. 2.
Johnson, Clarence G., Hartford City, Ind. Movable molding for closure members. 1,783,919; Dec. 2.
Johnson, Homer R., Los Angeles, Calif. Kitchen utensil. 1,783,651; Dec. 2.
Johnson Metal Products Company. (See Johnson, Theodore and P. G., assignors.)
Johnson, Minnie P., Long Beach, Calif. Garment. 1,783,572; Dec. 2.
Johnson, Paul G. (See Johnson, Theodore and P. G.)
Johnson Steel & Wire Company. (See Johnson, Charles D., assignor.)
Johnson, Theodore, Erie, and P. G. Johnson, Wesleyville, assignors to Johnson Metal Products Company, Erie, Pa. Hinge. 1,783,475; Dec. 2.
Johnson, Thomas W., Mountain View, assignor to V. H. Owen, Oakland, Calif. Method of and apparatus for treating fruit trees. 1,783,430; Dec. 2.
Jordan, Richard H., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company. Starting device for fan motors. 1,783,175; Dec. 2.
Journal-Box Servicing Corporation. (See Conway, I. M., and Lawson, assignors.)
Jupp, William B., Brooklyn, assignor to International Motor Company, New York, N. Y. Throttle-controlling means for internal-combustion engines. 1,783,431; Dec. 2.
Kačer, Filip. (See Lüttringhaus, A., and Kačer.)
Kaemmerling, Gustav H., assignor to Erie City Iron Works, Erie, Pa. Pulverizer. 1,783,717; Dec. 2.
Kageyama, Hosaku, Los Angeles, Calif. Signal device for automobiles. 1,783,718; Dec. 2.
Kapps, Robert E., assignor to W. & L. E. Gurley, Troy, N. Y. Surveyor's rod. 1,783,507; Dec. 2.
Karabatsos, Peter N., assignor of one-half to E. Demeur, Oak Park, Ill. Electric fan. 1,783,652; Dec. 2.

Kassner, Ernst, Berlin, Germany. Combined duplex adding machine and cash register. 1,783,943; Dec. 2.
Knufman, Gerson, New York, N. Y. Syringe nozzle. Des. 82,681; Dec. 2.
Kaufmann, John J., Elkins Park, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Loom harness. 1,783,793; Dec. 2.
Knufmann, John J., Elkins Park, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Heddle frame. 1,783,794; Dec. 2.
Kearney, Edward J., Wauwatosa, assignor to Kearney & Trecker Corporation, West Allis, Wis. Adjustable housing. 1,783,653; Dec. 2.
Kearney & Trecker Corporation. (See Kearney, Edward J., assignor.)
Kearsley, Richard A., Milford, assignor to Draper Corporation, Hopedale, Mass. Let-off mechanism for looms. 1,783,719; Dec. 2.
Keelan, Harry S., assignor to E. R. Squibb and Sons, Brooklyn, N. Y. Colloidal silver iodide compound and preparing same. 1,783,334; Dec. 2.
Keene, Edward W. W., Kingston-upon-Hull, England. Filtering apparatus. 1,783,937; Dec. 2.
Keeney, Don E., assignor to A C Spark Plug Company, Flint, Mich. Illuminating device for instrument panels. 1,783,920; Dec. 2.
Keidel, Frank, Elmhurst, assignor to The International Seal and Knot Protector Co., New York, N. Y. Seal. 1,783,938; Dec. 2.
Keller, Charles G., Poughkeepsie, N. Y. Vehicle wheel-hub construction. 1,783,432; Dec. 2.
Keller, James L., Ferndale, Mich. Clotheslines support. 1,783,433; Dec. 2.
Kellogg Company. (See Kellogg, John L., assignor.)
Kellogg, John L., assignor to Kellogg Company, Battle Creek, Mich. Combination toasting and shredding oven. 1,783,434; Dec. 2.
Kellogg Switchboard and Supply Company. See Grout, Martin B., assignor.)
Kelsey, William A., Minneapolis, Minn. Dental instrument. 1,783,654; Dec. 2.
Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Car-coupler mechanism. 1,783,655; Dec. 2.
Kenny, Victor, New York, N. Y. Making toy figures. 1,783,720; Dec. 2.
Kenny, Victor, New York, N. Y. Artificial hair for dolls' heads. 1,783,721; Dec. 2.
Kenner, Duncan, deceased, New Orleans, La., by court order, Mrs. E. T. Kenner sole heir and legatee. Mop head. 1,783,795; Dec. 2.
Kenner, Duncan, deceased, New Orleans, La.; by court order, Mrs. E. T. Kenner sole heir and legatee. Mop wringer and holder. 1,783,879; Dec. 2.
Kenner, Mrs. Emma T., sole heir and legatee. (See Kenner, Duncan.)
Kent, Arthur A., Ardmore, Pa. Radio receiving apparatus. 1,783,292; Dec. 2.
Kent, Walter G., and E. W. Hovenden, deceased, Luton, by J. R. Hovenden, London, and A. H. Hovenden, Bedford, England, executors, assignors to Builders Iron Foundry, Providence, R. I. Apparatus for measuring the flow of liquids. 1,783,880; Dec. 2.
Kettering, Charles F., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Container for removing carbon. 1,783,921; Dec. 2.
Keystone Driller Company. (See Downie, Robert R., assignor.)
Keystone Steel & Wire Company. (See Hume, William G., assignor.)
Kienle, Roy H., and L. V. Adams, Schenectady, N. Y., assignors to General Electric Company. Coating composition. 1,783,364; Dec. 2.
Kildare, Joseph. (See Yarnall, D. R., and Kildare.)
Kimball, Wallace D. (See Schroeder, A. C., and Kimball.)
King, Charles B., B. Jacoby, and D. J. Shelton, assignors to The Marion Steam Shovel Company, Marion, Ohio. Excavating machine. 1,783,293; Dec. 2.
King, Clarence E., Harpenden, England, assignor to General Motors Corporation, Detroit, Mich. Sleeve-valve engine. 1,783,722; Dec. 2.
King, Henry J., New Haven, assignor to Dictaphone Corporation, Bridgeport, Conn. Phonograph. 1,783,723 Dec. 2.
King's Julia, Candy Corporation. (See Phelps, Robert W., assignor.)
Kinnear Manufacturing Company, The. (See Greggor, Ralph H., assignor.)
Kinney, James A., Lebanon, Pa., assignor to Bethlehem Steel Company. High-speed thread-rolling machine. 1,783,796; Dec. 2.
Kirby, James B., West Richfield, Ohio. Mechanical movement. 1,783,380; Dec. 2.
Kirk, Walter R. (See Stepelton, Aubry F., assignor.)
Kjellberg, Anders W., assignor to General Motors Corporation, Detroit, Mich. Connecting rod. 1,783,922; Dec. 2.
Klein, Clarence J., Bellevue, assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Material-handling device. 1,783,797; Dec. 2.
Klein, Paul, Budapest, Hungary, and A. Szegvari, assignors to American Anode Inc., of Akron, Ohio. Manufacture of rubber goods from rubber dispersions. 1,783,435; Dec. 2.
Klugh, Ormon L., and T. E. Haverstick, Muncie, Ind. Safety attachment for machine tools. 1,783,476; Dec. 2.
Knapp, Frederick H., Kelso, Wash. Loading jack and clamp. 1,783,294; Dec. 2.
Knefel, Stanley C., St. Louis, Mo. Boiler return and vacuum trap. 1,783,381; Dec. 2.
Knight, B. B. & R., Corporation. (See Picard, Stanislas, assignor.)
Knight, Fred E. (See Grundon, G. F., and Knight.)
Knight, Troy J., Golden, Ill. Farm gate. 1,783,508; Dec. 2.
Koch, Edwin. (See Lappe, F., Koch, Pier, and Sauer.)
Koerner, John, Brooklyn, N. Y. Permanent-wave beautifier. 1,783,881; Dec. 2.
Kohler Company. (See Brotz, Frank G., assignor.)
Kohn, Max A., Harrisburg, Pa. Hand-pump sprayer. 1,783,882; Dec. 2.
Kohout, Addison. (See Gosch, W. H., and Kohout.)
Kohr, Elton D., York, Pa. Mold for forming cones for ice cream and frozen custard. 1,783,798; Dec. 2.
Kohr, Elton D., York, Pa. Mold for forming cones for ice cream and frozen custard. 1,783,799; Dec. 2.
Koren, Walter A. (See Crites, J., and Koren.)
Kovner, Samuel. (See Brooks, C. P., jr., and Kovner.)
Krastin, August, Cleveland, Ohio. Electric switch. 1,783,656; Dec. 2.
Kratochvil, Emanuel, Chicago, Ill. Fountain pen. 1,783,436; Dec. 2.
Krelling, James E., Chicago, Ill. Household-budget system. 1,783,800; Dec. 2.
Kromer, Theodor, assignor to Theodor Kromer Gesellschaft mit beschränkter Haftung, Freiburg, in Breisgau, Germany. Safety lock. 1,783,923; Dec. 2.
Kromer, Theodor, Gesellschaft mit beschränkter Haftung. (See Kromer, Theodor, assignor.)
Kruckenberg, Franz. (See Heyner, Fritz, assignor.)
Krum, Howard L., assignor to Teletype Corporation, Chicago, Ill. Electric selector mechanism. 1,783,382; Dec. 2.
Kucich, Reginald A. (See Rehe, Albert K., assignor.)
Kuntzleman, Roy A., Barberton, Ohio. Device for teaching penmanship. 1,783,657; Dec. 2.
La France, Richard, assignor to Owens-Illinois Glass Company, Toledo, Ohio. Machine for forming glass articles. 1,783,191; Dec. 2.
Lagerblade, Herbert C., assignor to The Horton Manufacturing Company, Bristol, Conn. Welding strip for golf shafts. 1,783,802; Dec. 2.
Laher, Frank J., Oakland, Calif. Automobile bumper. 1,783,335; Dec. 2.
Lahey, William E., Lima, Ohio. Pipe clamp. 1,783,509; Dec. 2.
Laib, William L., Oak Park, Ill. Whipper and mixer. 1,783,437; Dec. 2.
Lalanne, Louis, Marseille, France. Scuttle port and like tight-closed window. 1,783,336; Dec. 2.
La Mont Corporation. (See La Mont, W. D., and Ernst, assignors.)
La Mont, Walter D., Larchmont, N. Y., and A. F. Ernst, Passaic, N. J., assignors to La Mont Corporation, New York, N. Y. Effecting heat exchange. 1,783,724; Dec. 2.
Landers, Charles H., Lansing, assignor to General Motors Corporation, Detroit, Mich. Making bearings. 1,783,438; Dec. 2.
Lang, Franz, Munich-Nymphenburg, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Internal-combustion engine. 1,783,803; Dec. 2.
Lange, Hans. (See Reddelien, G., Lange, and Pfannenstiel.)
Lange, William L., New York, N. Y. Frame for musical instruments. 1,783,243; Dec. 2.
Lange, William L., New York, N. Y. Resonating means for banjos. 1,783,244; Dec. 2.
Langheinrich, Hellmuth, Neuroessen, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Recovery of sulphur from alkali-metal polysulphides. 1,783,725; Dec. 2.
Lanham, Prentiss O. (See Finnegan, H. L., and Lanham.)
Lanser, Alfred, Corseaux-Vevey, Switzerland. Liquid-measuring apparatus. 1,783,510; Dec. 2.
Lanzillotta, Rudolph, Columbus, Ohio. Sash balance. 1,783,573; Dec. 2.
Lappe, Franz, E. Koch, Ludwigshafen-on-the-Rhine, M. Pier, Heidelberg, and H. Sauer, Neurossen, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Metallic apparatus for carrying out chemical and other processes. 1,783,726; Dec. 2.
Laroche, Louis J., Reading, Pa. Doorstop or the like. Des. 82,682; Dec. 2.
Larrison, Lewis K., Wharton, N. J. Plumbing device. 1,783,883; Dec. 2.
Larsson, Thure, assignor to Norton Company, Worcester, Mass. Segmental grinding wheel. 1,783,727; Dec. 2.
Larsson, Thure, assignor to Norton Company, Worcester, Mass. Grinding wheel. 1,783,728; Dec. 2.
Larsson, Thure, assignor to Norton Company, Worcester, Mass. Abrasive-wheel mount. 1,783,729; Dec. 2.
La Société Anonyme Jean Paton. (See Barbas, Raymond, assignor.)
Law, Otis E., assignor to Pinless Clothes Line Corporation, Brookfield, Ill. Metallic clothesline. 1,783,245; Dec. 2.

Lawler, James J., Mount Vernon, N. Y. Thermostat. 1,783,574; Dec. 2.
Lawser, Charles W., Bala, assignor to The Wicaco Machine Corporation, Philadelphia, Pa. Pumping unit for artificial-silk-spinnng machines. 1,783,439; Dec. 2.
Lawson, Thomas M. (See Conway, I. M., and Lawson.)
Laymon, Herman B., Spencer, Ind. Making bags. 1,783,845; Dec. 2.
Leach, Edgar J., Janesville, Wis., assignor to Time-O-Stat Controls Company, Elkhart, Ind. Thermostatic valve. 1,783,730; Dec. 2.
Ledford, Grover R., San Joaquin, Calif. Shock-absorbing structure for firearms. 1,783,246; Dec. 2.
Ledig, Willy. (See Loebe, W.-W., Ledig, and Asmussen.)
Lee, Clifford C., assignor to K. O. Lee & Son Co., Aberdeen, S. Dak. Valve-seat. 1,783,884; Dec. 2.
Lee, K. O., & Son Co. (See Lee, Clifford C., assignor.)
Leipert, August H., College Point, assignor to International Motor Company, New York, N. Y. Cushion connection for vehicle construction. 1,783,801; Dec. 2.
Lennox, Thomas C., Pittsfield, Mass., assignor to General Electric Company. Electric system. 1,783,804; Dec. 2.
Leppert, Henry E., New Britain, assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Inclosed switch. 1,783,731; Dec. 2.
Leroux, Aza, New York, N. Y. Pickpocketproof button. 1,783,846; Dec. 2.
Leslie, John W., Evanston, Ill., assignor, by mesne assignments, to Signode Steel Strapping Company. Strapping joint. 1,783,192; Dec. 2.
Leslie, John W., Evanston, Ill., assignor, by mesne assignments, to Signode Steel Strapping Company. Strapping joint. 1,783,247; Dec. 2.
Leuthner, Frank J., Sharpsville, Pa. Molding apparatus. 1,783,805; Dec. 2.
Levi, Louis, Winthrop, Mass. Window screen. 1,783,732; Dec. 2.
Levy, Oscar C., Chicago, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Party-line telephone system. 1,783,295; Dec. 2.
Lévy, Pierre, Nancy, assignor to The Société P. & P. Levy die Etablissements J et S Levy Fréres, Meurthe-et-Moselle, France. Fashioned warp knitting. 1,783,847; Dec. 2.
Lewis, Albert S., jr. (See McConnell, J. R., and Lewis.)
Lewis, Charles H. (See Travers, J. T., Lewis, and Urbain.)
Lewis, James O., Tulsa, Okla. Valve. 1,783,441; Dec. 2.
Lewis, Richard W., Montclair, N. J. Dispersion and making the same. 1,783,365; Dec. 2.
Lewis, Richard W., Montclair, N. J. Dispersion and making the same. 1,783,366; Dec. 2.
Lieber, Carl M., Oklahoma City, Okla. Automatic safety valve. 1,783,440; Dec. 2.
Lillibridge, Duane M., St. Charles, Ill. Hammock or glider supporting frame. 1,783,848; Dec. 2.
Limpach, Otto. (See Schmidt, M. P., and Limpach.)
Lincoln Scale Corporation. (See Burke, Robert J., assignor.)
Lindermann, A. J., & Hoverson Company. (See Rutenber, Edwin A., assignor.)
Lisle Manufacturing Company, The. (See Olson, C. A., Buch, and Brooks, assignors.)
Little, Earl W., Indianapolis, Ind. Attachment for welding machines. 1,783,337; Dec. 2.
Loebe, Walther-Winfried, Waldmannslust, Berlin, W. Ledig, Berlin, and H. Asmussen, Charlottenburg, Berlin, Germany, assignors to General Electric Company. Bulb feeder for sealing-in machines. 1,783,806; Dec. 2.
Loehr, Oskar, Uerdingn-Niederrhein, assignor to I. G. Farbenindustrie Aktiengeselischaft, Frankfort-on-the-Main, Germany. Manufacture of soft and pliable masses from cellulose esters. 1,783,176; Dec. 2.
Logue, Paul. (See Durgin, C. B., Gerber, and Logue.)
Lomax, Clarence E. (See Saunders, N. H., Lomax, and Riebe.)
Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Ensemble suit. Des. 82,683; Dec. 2.
Loucks, James F., Cleveland, Ohio, assignor to Detroit Steel Products Company, Detroit, Mich. Building-construction unit. 1,783,248; Dec. 2.
Lowenstein, Gothard, Brooklyn, N. Y. Handling and storing motor vehicles. 1,783,296; Dec. 2.
Lucas, Harry W., Holbrook, Mass., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Hinge last. 1,783,658; Dec. 2.
Luce, Hans, Dusseldorf, assignor to Rheinische Metallwaaren-und Maschinenfabrik Sömmerda Aktiengesellschaft, Sommerda, Germany. Setting type levers. 1,783,177; Dec. 2.
Lüttringhaus, Arthur, and F. Kačer, Mannheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Anthraquinone-thioxanthone vat dyestuffs. 1,783,659; Dec. 2.
MacDonald, Chester R., Rutherford, N. J., assignor, by mesne assignments, to The Patent and Licensing Corporation, Boston, Mass. Apparatus for coating roofing units. 1,783,575; Dec. 2.
MacDonald, Chester R., Rutherford, N. J., assignor, by mesne assignments, to The Patent and Licensing Corporation, Boston, Mass. Finishing roofing units. 1,783,849; Dec. 2.
MacDonald, Chester R., Rutherford, N. J., assignor, by mesne assignments, to The Patent and Licensing Corporation, Boston, Mass. Apparatus for finishing roofing units. 1,783,850; Dec. 2.
MacDonald, Frank J., Ellet, assignor of one-half to J. R. Gammeter, Akron, Ohio. Bottle cap. 1,783,909; Dec. 2.
MacGahan, Paul, Orange, N. J., assignor to Westinghouse Electric and Manufacturing Company. Instrument panel for switchboards. Des. 82,684; Dec. 2.
MacMillen, William C., Rochester, Pa., assignor, by mesne assignments, to The Wayne Pump Company, Baltimore, Md. Liquid-overflow-control means. 1,783,249; Dec. 2.
Maes, Michael, Cincinnati, Ohio. Folding table and bench. 1,783,660; Dec. 2.
Majors, Walter L., St. Louis, Mo. Heating apparatus. 1,783,576; Dec. 2.
Makoski, Alexander, J. W., and W. J., Grand Rapids, Mich.; said A. Makoski and said J. W. Makoski, assignors to said W. J. Makoski. Adjustable typewriter stand. 1,783,661; Dec. 2.
Makoski, Joseph W. (See Makoski, Alexander, J. W., and W. J.)
Makoski, Walter J. (See Makoski, Alexander, J. W., and W. J.)
Makowski, John F., Oakland, Calif., assignor to Fireproof Wall Company, Reno, Nev. Conduit construction. 1,783,178; Dec. 2.
Manassero, Giuseppe, New York, N. Y. Golf tee. 1,783,733; Dec. 2.
Mandy, James, assignor of one-half to M. Ecker, New York, N. Y. Laundry hanger. 1,783,578; Dec. 2.
Manley Manufacturing Company. (See Manley, Robert E., assignor.)
Manley, Robert E., assignor to Manley Manufacturing Company, York, Pa. Lever mechanism. 1,783,250; Dec. 2.
Mann, Chauncey R., Troy, N. Y. Game apparatus. 1,783,338; Dec. 2.
Mansfield, Samuel J., Dallas, Tex. Piston. 1,783,477; Dec. 2.
Marcher, Royal, assignor to Cohn & Rosenberger, Inc., New York, N. Y. Pin for holding golf tees. Des. 82,685; Dec. 2.
Marion Steam Shovel Company, The. (See King, C. B., Jacoby, and Shelton, assignors.)
Markham, Charles M., Toledo, Ohio. Timber splicer. 1,783,622; Dec. 2.
Marr, Arthur P. (See Marr, George M. and A. P.)
Marr, George M. and A. P., New York, N. Y. Rudder-angle-indicating device. 1,783,251; Dec. 2.
Marshall, Arnold C., assignor to The Steel Scaffolding Company Limited, London, England. Coupling or clamp for scaffolding or other purposes. 1,783,735; Dec. 2.
Marshall, Clinton E., Brooklyn, N. Y. Fountain-pen attachment. 1,783,734; Dec. 2.
Marshall, Clinton E., New York, N. Y. Pen and pencil clip. 1,783,736; Dec. 2.
Marti, Othmar K. (See Sindeband, M. L., and Marti.)
Martin, Francis G., and W. Ramsay, Birkenhead, assignors to J. Stone & Company Limited, Deptford, England. Apparatus for electrolytically depositing metal on metal tubes. 1,783,885; Dec. 2.
Martin, Mark H., Reading, assignor to Birdsboro Steel Foundry & Machine Company, Birdsboro, Pa. Car truck. 1,783,737; Dec. 2.
Martocello, Joseph A., Philadelphia, Pa. Ice-making system and method of obtaining dry air. 1,783,807; Dec. 2.
Martocello, Joseph A., Philadelphia, Pa. Support for drop tubes. 1,783,808; Dec. 2.
Marx, Karl, H. Behncke, and K. Brodersen, Dessau in Anhalt, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Highly-active catalyst. 1,783,662; Dec. 2.
Marx, Louis, New York, N. Y. Toy. 1,783,511; Dec. 2.
Mascarucci, Giuseppe, assignor to Safat Società Anonima Fabbrica Armi-Torino, Turin, Italy. Device for feeding cartridges and for cocking the striker in automatic firearms. 1,783,577; Dec. 2.
Maschinenfabrik Augsburg-Nuernberg, Aktiengesellschaft. (See Wilhelm, Ottmar, assignor.)
Maslin, Albert J. (See Peters, J. F., and Maslin.)
Massie, Arnold C., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Support construction for large filament lamps. 1,783,623; Dec. 2.
Mather, Mildred C., Minneapolis, Minn. Protector. 1,783,512; Dec. 2.
Matthews, Edward, Denver, Colo. Snubber for automobiles. 1,783,193; Dec. 2.
Matthews, Howard D., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Thermostatic switch. 1,783,179; Dec. 2.
Mattson, Carl, New York, N. Y. Collapsible window frame. 1,783,910; Dec. 2.
Maurer, Donald D., Walnut Creek, Calif. Transmission. 1,783,513; Dec. 2.
Maxwell, William H., et al. (See Carter, Samuel C., assignor.)
Mayer, Charles W., and E. F. Siller, Rochester, N. Y. Recording paper. 1,783,442; Dec. 2.
McConnell, John R., Anchorage, and A. S. Lewis, jr., assignors, by mesne assignments, to American Air Filter Company, Inc., Louisville, Ky. Apparatus for cleaning air-filter cells. 1,783,194; Dec. 2.

McConway & Torley Company, The. (See Kelso, William, assignor.)
McCoy, William C., Akron, Ohio, assignor to Moto Meter Gauge & Equipment Corporation, Long Island City, N. Y. Electrical indicating instrument. 1,783,851; Dec. 2.
McFall, Thurlow E., Sparta, Mich. Piston-ring casting. 1,783,886; Dec. 2.
McFarland, James C., Fort Thomas, assignor to The Wadsworth Watch Case Co., Dayton, Ky. Etching precious metals. 1,783,663; Dec. 2.
McGovern, Peter F., Weehawken, N. J. Shafting for engines. 1,783,664; Dec. 2.
McGrath, Patrick J., Mill Iron, Mont. Automobile gate. 1,783,579; Dec. 2.
McGuigan, Walter J. (See Della, Ernest, assignor.)
McGuire, John J., Yonkers, N. Y. Vehicle brake. 1,783,852; Dec. 2.
McHan, Brack B. (See De Lore, C. P., and McHan.)
McKean, John O., assignor to Forest Machine Company, Westfield, Mass. Bobbin-supply truck for winding machines. 1,783,911; Dec. 2.
McKee, Garnet W., Rockford, Ill. Ribbon burner. 1,783,195; Dec. 2.
McKenzie, Thomas K., Harrisonville, Mo. Dental instrument. 1,783,252; Dec. 2.
McKeown, Thomas H., Metuchen, N. J., assignor, by mesne assignments, to The Roessler & Hasslacher Chemical Company. Opacifier for enamels. 1,783,738; Dec. 2.
McKeown, Thomas H., Metuchen, N. J., assignor, by mesne assignments, to The Roessler & Hasslacher Chemical company. Opacifier for enamels. 1,783,739; Dec. 2.
McKeown, Thomas H., Metuchen, N. J., assignor, by mesne assignments, to The Roessler & Hasslacher Chemical Company. Opacifier for enamels. 1,783,740; Dec. 2.
McKinley, Charles W., assignor to A C Spark Plug Company, Flint, Mich. Oil-filter member. 1,783,924; Dec. 2.
McMillan Book Company. (See McMillan, John L., assignor.)
McMillan, John L., assignor to McMillan Book Company, Syracuse, N. Y. Loose-leaf binder. Re17,895; Dec. 2.
McNamara, Leon, Rochelle, Ill. Fastening mechanism. 1,783,253; Dec. 2.
Mears, Arthur M., Portland, Oreg. Clutch mechanism. 1,783,741; Dec. 2.
Mechanical Rubber Company, The. (See Cox, Julian H., assignor.)
Meissner, Alexander, assignor to Gesellschaft für Drahtlose Telegraphie, m. b. H., Berlin, Germany. Indicating means for high-frequency oscillations. 1,783,297; Dec. 2.
Menke, Edward W., Chicago, and J. C. Redington, Geneva, Ill., assignors, by mesne assignments to St. Regis Paper Company, New York, N. Y. Siftproof valve bag. 1,783,624; Dec. 2.
Merle, George, sr., Brooklyn, N. Y. Voltage controlling and regulating device. 1,783,542; Dec. 2.
Meuer, George J., Milwaukee, Wis., assignor, by mesne assignments, to Cutler-Hammer, Inc. Electric switch. 1,783,298; Dec. 2.
Meuer, George J., Milwaukee, Wis., assignor, by mesne assignments, to Cutler-Hammer, Inc. Electric switch. 1,783,665; Dec. 2.
Meyer, Charles, Miami, Fla., assignor to Press-Or Company Juice extractor. Re17,893; Dec. 2.
Meyer, Georg, assignor to Gasmesserfabrik Mainz, Elster & Co., Mainz, Germany. Valve mechanism for gas meters. 1,783,742; Dec. 2.
Milcor Steel Company. (See Schmieder, Robert S., assignor.)
Miller, Elmer, Boonton, N. J. Heel structure for shoes. 1,783,514; Dec. 2.
Miller, Ernest, Saginaw West Side, Mich. Air moistener for internal-combustion engines. 1,783,254; Dec. 2.
Miller, Felix B., Attleboro, Mass., assignor to W. F. Denney, Philadelphia, Pa. Compact or similar article. Des. 82,718; Dec. 2.
Miller, Frank W., Chicago, assignor of one-half to I. J. Wilson, Winnetka, Ill. Water softener. 1,783,255; Dec. 2.
Miller, Frederic H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Suspension clamp. 1,783,543; Dec. 2.
Miller, Jesse P., Houma, La., assignor of one-half to J. H. Thatcher. Drill bit. 1,783,580; Dec. 2.
Miller, John C., Chicago, Ill. Apparatus for cleaning out drain pipes. 1,783,256; Dec. 2.
Miller, Morris, East Orange, assignor to Simon Miller & Co., Newark, N. J. Bracelet clasp. 1,783,743; Dec. 2.
Miller, Simon, & Co. (See Miller, Morris, assignor.)
Miller, William J., Swissvale, Pa. Tray for pottery-fabricating apparatus. 1,783,197; Dec. 2.
Mills, Bertram M., assignor to The Standard Engineering Works, Pawtucket, R. I. Humidifier casing. Des. 82,686; Dec. 2.
Mirick, Carlos B., assignor to National Electrical Supply Company, Washington, D. C. Antenna weight. 1,783,299; Dec. 2.
Miriello, George, Bronx, N. Y. Scissors. 1,783,853; Dec. 2.
Mitchell, John R., Trenton, N. J. Bobbin or spool cap. 1,783,339; Dec. 2.
Mittasch, Alwin, Ludwigshafen-on-the-Rhine, and C. Müller, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacture of iron carbonyl. 1,783,744; Dec. 2.
Mohun, John L., Omaha, Nebr. Locomotive structure. 1,783,300; Dec. 2.
Monar, Fred B., Washington, D. C. Constant-voltage generator. 1,783,745; Dec. 2.
Monroe Calculating Machine Company. (See Overbury, Austin A., assignor.)
Montgomery, Harry W., Omaha, Nebr. Valve actuation for a burglar-repelling device. 1,783,515; Dec. 2.
Montreal General Hospital, The. (See Rabinowitch, Israel M., assignor.)
Montrief, James V., Bridgeport, Tex. Building construction. 1,783,383; Dec. 2.
Moore Brothers Company. (See Dibble, Claude M., assignor.)
Moore, Walter N., assignor to Three-M Manufacturing Company, Kansas City, Mo. Removing scale from water jackets of internal-combustion engines. 1,783,478; Dec. 2.
Moreton, Henry H., Stony Point, N. Y. Spotlight attachment. 1,783,516; Dec. 2.
Morgan, Connie D. (See Beckham, G. F., and Morgan.)
Morgan Dry Cleaners Equipment Co. (See Morgan, Paul W., assignor.)
Morgan, Edmund C., deceased, Richmond Hill, N. Y., C. E. Morgan, executrix. Mining and loading machine. 1,783,443; Dec. 2.
Morgan, Olive E., executrix. (See Morgan, Edmund C.)
Morgan, Paul W., assignor to Morgan Dry Cleaners Equipment Co., St. Louis, Mo. Filter for cleaning fluids. 1,783,444; Dec. 2.
Morrell, Jacque C. (See Egloff, G., and Morrell.)
Morrell, Jacque C., and H. P. Benner, assignors to Universal Oil Products Company, Chicago, Ill. Process and apparatus for converting hydrocarbons. 1,783,257; Dec. 2.
Morris, Carl, and W. H. Buck, assignors of one-third to O. Infelt, Thornton, Iowa. Railroad mowing machine. 1,783,517; Dec. 2.
Morris, Raymond G., et al. (See Morris, William R., assignor.)
Morris, Robert H., et al. (See Morris, William R., assignor.)
Morris, William R., Fairfield, assignor of one-half to R. H. Morris, and one-half to R. G. Morris, Boise, Idaho. Hydraulic power device. 1,783,887; Dec. 2.
Morse, William J., Attleboro, Mass. Clamp lever for buckles. 1,783,854; Dec. 2.
Mort, Lee H., Pittsburgh, Pa. Attachment for internal-combustion engines. 1,783,746; Dec. 2.
Morthland, John A., Forest Park, Ill. Supporting bracket. 1,783,666; Dec. 2.
Morton, Charles, Pawtucket, R. I. Spinning frame. 1,783,301; Dec. 2.
Moto Meter Gauge & Equipment Corporation. (See McCoy, William C., assignor.)
Mougey, Harry C., assignor to General Motors Research Corporation, Detroit, Mich. Soldering flux. 1,783,925; Dec. 2.
Mountain, Harry W. (See Reed, Robert W., assignor.)
Moyer, Charles L., Chicago, Ill., assignor, by mesne assignments, to Quality Hardware and Machine Corporation. Automatic book-assembly mechanism. 1,783,625; Dec. 2.
Mueller, Alexander V., assignor to The Deming Company, Salem, Ohio. Centrifugal pump. 1,783,667; Dec. 2.
Müller, Carl. (See Mittasch, A., and Müller.)
Müller, Friederich, Elizabeth, N. J. Tube-tapering apparatus. 1,783,384; Dec. 2.
Multi-Hydro Washing Machine Company. (See Dehle, Otto T., assignor.)
N. D. Q. Specialty Corporation et al. (See Reisert, Mathias, assignor.)
Naamlooze Vennootschap Ingenieurs Kantoor voor Scheepsbouw. (See Behrmann, Georg J. K., assignor.)
Nachod and United States Signal Co. et al. (See Richterkessing, Frank H., assignor.)
Nagle, Harold E., Kansas City, Mo. Package-dispensing machine. 1,783,479; Dec. 2.
National Acme Company, The. (See Garey, Charles Q., assignor.)
National Acme Company, The. (See Hogg, William J., assignor.)
National Acme Company, The. (See Hogg, W. J., and Neumann, assignors.)
National Acme Company, The. (See Petsche, G. B. and Drissner, assignors.)
National Acme Company, The. (See Trobeck, Olof E., assignor.)
National Brick Company. (See Hilgendorf, Henry, assignor.)
National Electrical Supply Company. (See Mirick, Carlos B., assignor.)
National Enameling and Stamping Company. (See Sladky, Alexander C., assignor.)
Naugle, John J. (See Wickenden, Leonard, assignor.)
Neumann, Frederick. (See Hogg, W. J., and Neumann.)
New Departure Manufacturing Company, The. (See Hughes, Frederick G., assignor.)
Newkirk, William B., Riverside, Ill., assignor to International Patents Development Company, Wilmington, Del. Making crystalline dextrose. 1,783,626; Dec. 2.
Newton, John H., Nutley, N. J. Perpetual calendar. 1,783,302; Dec. 2.
Niebel, Gottfried, New York, N. Y. Electric bulb or similar article. Des. 82,687; Dec. 2.

Noble and Cooley Co. (See Hiers, Ralph H. and H. A., assignors.)
Nolde and Horst Company, The. (See Gosch, W. H., and Kohout, assignors.)
Noma Electric Corporation. (See Block, Joseph, assignor.)
Noma Electric Corporation. (See Sadacca, Albert, assignors.)
Norton Company. (See Larsson, Thure, assignor.)
Norton Company. (See Trefethen, C. G., and Belden, assignors.)
Norwood, Harry G., Baltimore, Md., assignor, by mesne assignments, to Balloon Rubber Heel Corporation. Rubber cushioned heel. Re17,890; Dec. 2.
Nystrom, Martin, Chicago, Ill., assignor, by mesne assignments, to United Research Corporation, Long Island City, N. Y. Sound-reproducing device. 1,783,385; Dec. 2.
Nystrom, Martin, Chicago, Ill., assignor, by mesne assignments, to United Research Corporation, Long Island City, N. Y. Making diaphragms. 1,783,386; Dec. 2.
Nystrom, Martin, Chicago, Ill., assignor, by mesne assignments, to United Research Corporation, Long Island City, N. Y. Diaphragm. 1,783,926; Dec. 2.
Oberndorfer, Louis, New York, N. Y. Shooting game. 1,783,303; Dec. 2.
O'Brien, Patrick F., Franklin, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. 1,783,518; Dec. 2.
Ohio Brass Company, The. (See Austin, Arthur O., assignor.)
Ohio Sanitary Engineering Corporation, The. (See Travers, J. T., Lewis, and Urbain, assignors.)
Ohman, Charles A., and W. T. Ohman, Great Kills, N. Y. Transmitting tube for submarines and like vessels. 1,783,668; Dec. 2.
Ohman, Willihard T. (See Ohman, Charles A. and W. T.)
Ohnstrand, Enoch, Kenmore, N. Y., assignor to Remington Rand Inc., Tonawanda, N. Y. Lock-replacing unit. 1,783,581; Dec. 2.
Oishei, John R., H. Hueber, W. Paulus, Buffalo, and E. C. Horton, Hamburg, assignors to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 1,783,582; Dec. 2.
Okatoff, Alexander P., Leningrad, Union of Socialist Soviet Republics. Producing colloidal silicic acid. 1,783,304; Dec. 2.
Old Ben Coal Corporation. (See Hertel, Otto H., assignor.)
Oliphant, John, Chicago, Ill., assignor to Sullivan Machinery Company. Displacement pumping system. 1,783,747; Dec. 2.
Oliver, Dew R., Los Angeles, Calif. Air motor. 1,783,669; Dec. 2.
Oliver, Elwyn E., Cleveland, Ohio. Gear drive for cinematographic projectors. 1,783,340; Dec. 2.
Olpin, Henry C. (See Ellis, G. H., Olpin, and Walker.)
Olson, Axel, West Roxbury, Mass. Roller weather strip for doors. 1,783,305; Dec. 2.
Olson, Carl A., F. L. Buch, and T. E. Brooks, assignors to The Lisle Manufacturing Company, Clarinda, Iowa. Shearing and riveting machine. 1,783,445; Dec. 2.
O'Malley, Frank T. (See Helmbold, M. L., and O'Malley.)
Opitz, Georg, Berlin, Germany. Letter-of-credit form. 1,783,258; Dec. 2.
Orbon Stove Co. (See Fleer, Harry H., assignor.)
O'Rourke, Tex., assignor to Card Display Inc., New York, N. Y. Display device. Des. 82,688; Dec. 2.
Otten, Lawrence F., Fort Thomas, assignor to The Wadsworth Watch Case Co., Dayton, Ky. Catch clasp for ladies' mesh bracelets. 1,783,306; Dec. 2.
Overbury, Austin A., West Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Attachment for calculating machines. 1,783,446; Dec. 2.
Owen, Morris, Oak Park, Ill. Furnace attachment. 1,783,809; Dec. 2.
Owen, Victor H. (See Johnson, Thomas W., assignor.)
Owens-Illinois Glass Company. (See La France, Richard, assignor.)
Owens-Illinois Glass Company. (See Soubier, Leonard D., assignor.)
Owens-Illinois Glass Company. (See Williams, Percy Q., assignor.)
Pacific Electric Manufacturing Corporation. (See Rea, James C., assignor.)
Packard Motor Car Company. (See Griswold, Walter R., assignor.)
Packer, Lewis C., Long Meadow, Mass., assignor to Westinghouse Electric & Manufacturing Company. Lighting unit. 1,783,519; Dec. 2.
Packer, Lewis C., Long Meadow, Mass., assignor to Westinghouse Electric & Manufacturing Company. Sewing-machine lighting unit. 1,783,544; Dec. 2.
Paradiso, Frank, Philadelphia, Pa. Shoe-stitcher attachment. 1,783,198; Dec. 2.
Parlato, Peter, Astoria, N. Y., assignor to Max Schaeffer Co., Inc. Globe for inclosed lighting units. Des. 82,690; Dec. 2.
Parsons, Cecil W. (See Baker, R. H., and Parsons.)
Parsons, Ethel, New York, N. Y., assignor to The Stearns & Foster Company, Lockland, Ohio. Textile fabric. Des. 82,691; Dec. 2.
Partlow, Alfred, Lincoln Park, assignor to Vorclone Corporation, Milwaukee, Wis. Washing-machine-cover latch. 1,783,447; Dec. 2.
Pasternak, Martin, New York, N. Y., assignor to Radio Corporation of America. Radiocabinet. Des. 82,692; Dec. 2.
Patent and Licensing Corporation, The. (See MacDonald, Chester R., assignor.)
Patocka, Theodore, College Point, N. Y., assignor to T. R. Brooks, Scranton, Pa. Protected directional signal. 1,783,307; Dec. 2.
Patricolo, Vincent, Buffalo, N. Y. Shock absorber. 1,783,387; Dec. 2.
Patricolo, Vincent, Buffalo, N. Y. Shock absorber. 1,783,388; Dec. 2.
Paulus, William. (See Oishei, J. R. Hueber, Paulus, and Horton.)
Pearce, George C., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermal control system. 1,783,520; Dec. 2.
Pedlar People Limited, The. (See Babe, William E., assignor.)
Pen Desk Set Company. (See Sheaffer, W. A., and Cuthbert, assignors.)
Penn, Albert, assignor to Penn Electric Switch Co., Des Moines, Iowa. Float-operated switch. 1,783,448; Dec. 2.
Penn Electric Switch Co. (See Penn, Albert, assignor.)
Pennsylvania Crusher Company. (See Borton, George W., assignor.)
Pequod Realty Corporation. (See Dalton, Nelson W., assignor.).
Pesek, Cyril P. (See Errett, A. J., and Pesek.)
Peters, Henry M., Chicago, assignor to Faries Manufacturing Company, Decatur, Ill. Portable electric lamp. Des. 82,693; Dec. 2.
Peters, John F., and A. J. Maslin, Edgewood, Pa., assignors to Westinghouse Electric and Manufacturing Company. Variable-voltage transformer. 1,783,545; Dec. 2.
Petersen, John H., West New York, N. J. Stencil printing machine. 1,783,810; Dec. 2.
Petersen, Martin J., Canyon, Minn. Trap. 1,783,670; Dec. 2.
Peterson, Clarence R., jr., Pelham Manor, N. Y. Roadbed construction for toy railways. 1,783,367; Dec. 2.
Petroleum Rectifying Company of California. (See Worthington, John T., assignor.)
Petsche, Gustav B., and A. E. Drissner, assignors to The National Acme Company, Cleveland, Ohio. Centrifuge. 1,783,546; Dec. 2.
Pfaff, Kaspar. (See Rössner, H., Steindorff, and Pfaff.)
Pfannenstiel, Hugo. (See Reddelien, G., Lange, and Pfannenstiel.)
Pfaudler Co., The. (See Jacobsen, Jens N., assignor.)
Pfager, Charles W., Evanston, assignor to The Pullman Company, Chicago, Ill. Sleeping car. 1,783,480; Dec. 2.
Phelps, Robert W., assignor to Julia King's Candy Corporation, Chicago, Ill. Box. Des. 82,689; Dec. 2.
Philadelphia Storage Battery Company. (See Roberts, David, assignor.)
Philadelphia Storage Battery Company. (See Weindel, Fred, jr., assignor.)
Picard, Stanislas, assignor to B. B. & R. Knight Corporation, Providence, R. I. Thread-extracting needle. 1,783,449; Dec. 2.
Pier, Mathias. (See Lappe, F., Koch, Pier, and Sauer.)
Pinless Clothes Line Corporation. (See Law, Otis E., assignor.)
Pittsburgh Plate Glass Company. (See Barnes, William E., assignor.)
Pittsburgh Plate Glass Company. (See Fox, John H., assignor.)
Pittsburgh Plate Glass Company. (See Hitner, Harry F., assignor.)
Pittsburgh Plate Glass Company. (See Schneider, Frederick W., assignor.)
Pittsburgh Screw & Bolt Company. (See Dicks, Thomas A., assignor.)
Pollock, Robert T., New York, N. Y., assignor to Universal Oil Products Company, Chicago, Ill. Cracking petroleum oil. 1,783,259; Dec. 2.
Popper, Otto, Vienna, Austria. Dock ship for conveying river boats across the sea. 1,783,450; Dec. 2.
Porter, George M., New York, N. Y. Magazine for printers' type. 1,783,811; Dec. 2.
Prescott Iron Works. (See Goodspeed, Jack L., assignor.)
Prescott, John O., Glenbrook, assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn. Selector tuning device. 1,783,671; Dec. 2.
Press-Or Company. (See Meyer, Charles, assignor.)
Proctor, Robert V., assignor to The Commercial Shearing and Stamping Company, Youngstown, Ohio. Mine-shaft construction. 1,783,812; Dec. 2.
Pugliese, John, South Manchester, Conn. System of filtration. 1,783,341; Dec. 2.
Pullman Company, The. (See Pfiager, Charles W., assignor.)
Purdy, William G., and J. P. Speck, Tiffin, Ohio. Lattice work and supporting the same. 1,783,196; Dec. 2.
Quality Hardware and Machine Corporation. (See Moyer, Charles L., assignor.)
Rabinowitch, Israel M., Montreal, Quebec, assignor to The Montreal General Hospital, Montreal, Canada. Apparatus for diagnosing human ailments. 1,783,451; Dec. 2.

Racine Confectioners' Machinery Company. (See Cahoon, Edward E., assignor.)
Radcliffe, Frank P., Fairmont, W. Va. Signal. 1,783,855; Dec. 2.
Radio Corporation of America. (See Pasternak, Martin, assignor.)
Raimondi, Vito O., Chicago, Ill. Novelty top. 1,783,627; Dec. 2.
Ralston, Frank L., La Grande, Oreg. Detachable bladed scissors. 1,783,583; Dec. 2.
Ramapo Ajax Corporation. (See Eastburn, Samuel L., assignor.)
Ramsay, William. (See Martin, F. G., and Ramsay.)
Randolph, George B., San Antonio, Tex. Lifting device. 1,783,856; Dec. 2.
Ransome Concrete Machinery Company. (See Bushnell, James E., assignor.)
Rasch, Royal H. (See Schur, M. O., and Rasch.)
Rawls Manufacturing Company. (See Rawls, Silas E., assignor.)
Rawls, Silas E., Streator, Ill., assignor to Rawls Manufacturing Company, Mowing machine. 1,783,672; Dec. 2.
Raymond Brothers Impact Pulverizer Co., The. (See Crites, J., and Koren, assignors.)
Rayton, Wilbur B., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Condensing lens system. 1,783,481; Dec. 2.
Rea, James C., assignor to Pacific Electric Manufacturing Corporation, San Francisco, Calif. Electrical switch. 1,783,389; Dec. 2.
Red Wing Union Stoneware Company. (See Hoyt, Elmore S., assignor.)
Reddelien, Gustav, Leipzig, H. Lange, and H. Pfannenstiel, Dessau in Anhalt, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Manufacture of aromatic hydroxyaldehydes. 1,783,584; Dec. 2.
Redig, Charles. (See Haselow, F. H., and Redig.)
Redington, John C. (See Menke, E. W., and Redington.)
Reed, Andrew H., assignor of one-third to C. W. Turner, and one-third to S. M. Coffman, Kansas City, Mo. Parachute-cord retainer. 1,783,452; Dec. 2.
Reed, Robert W., Fairport, N. Y., assignor of one-half to Harry W. Mountain, Aberdeen, S. Dak. Gauge. 1,783,260; Dec. 2.
Regan Safety Devices Company, The. (See Bodde, Theodore, assignor.)
Regents of the University of Michigan, The. (See Firestone, Floyd, assignor.)
Regina Corporation, The. (See Smith, Bernard P., assignor.)
Rehe, Albert K., assignor of one-half to R. A. Kucich, San Francisco, Calif. Continuous coffee roaster and storer. 1,783,673; Dec. 2.
Rehwold, Walton C., Beverly Hills, and J. G. Duff, Los Angeles, Calif. Vacuum-cleaner attachment for automobiles. 1,783,674; Dec. 2.
Reich, Gustave T., Drexel Hill, Pa. Purifying yeast. 1,783,521; Dec. 2.
Reinhold, Frederick E., Van Nuys, Calif. Locking plug for electric circuits. 1,783,342; Dec. 2.
Reis, Curt F., assignor to Excel Magneto Co., Chicago, Ill. Battery ignition system. 1,783,343; Dec. 2.
Reis, Curt F., Chicago, assignor to Excel Magneto Company, Chicago, Ill. Rotor for magnetos. 1,783,344; Dec. 2.
Reisert, Mathias, Brooklyn, assignor of one-half to Cypress Novelty Corporation, Brooklyn, N. Y., and one-half to N. D. O. Specialty Corporation. Combination package. 1,783,453; Dec. 2.
Reiter, Daniel L., New York, N. Y. Pronged fastener. 1,783,748; Dec. 2.
Remington Rand Inc. (See Ohnstrand, Enoch, assignor.)
Renfer, John E., assignor to The Cleveland Rock Drill Company, Cleveland, Ohio. Air-line oiler. 1,783,522; Dec. 2.
Reserve Holding Company. (See Levy, Oscar C., assignor.)
Reserve Holding Company. (See Saunders, N. H., Lomax, and Riebe, assignors.)
Rheinische Metallwaaren- und Maschinenfabrik. (See Sundhaussen, Hermann, assignor.)
Rheinische Metallwaaren- und Maschinenfabrik Sömmerda Aktiengesellschaft. (See Luce, Hans, assignor.)
Rice, Barton & Fales, Incorporated. (See Smith, H. A., Thomson, and Stafford, assignors.)
Richards, James, and N. Cortese, Arnold, Pa. Anticreeper for railway rails. 1,783,482; Dec. 2.
Richardson, Led L., Cleveland, Ohio, assignor to The Cleveland Rock Drill Company. Pile-driving tool. 1,783,523; Dec. 2.
Richter, Walter M., Staten Island, N. Y. Window construction. 1,783,433; Dec. 2.
Richterkessing, Frank H., assignor to The Cheatham Electric Switching Device Co. and Nachod and United States Signal Co., Louisville, Ky. Electric switch and signal system. 1,783,308; Dec. 2.
Ricks, Fred. (See Barclay, W. R., and Ricks.)
Riebe, Theodore C. (See Saunders, N. H., Lomax, and Riebe.)
Rieke Metal Products Corporation. (See Rieke, Theodore W., assignor.)
Rieke, Theodore W., Auburn, Ind., assignor to Rieke Metal Products Corporation. Bung fixture for sheet-metal containers. 1,783,927; Dec. 2.
Riker, Andrew L., jr., Fairfield, Conn., assignor to The Rubber Shock Insulator Corporation, Wilmington, Del. Shackle connection between spring and frame. 1,783,199; Dec. 2.
Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 82,694; Dec. 2.
Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 82,695; Dec. 2.
Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 82,696; Dec. 2.
Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 82,697; Dec. 2.
Riker, Samuel M., Chester, N. J. Shoe ornament. Des. 82,698; Dec. 2.
Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 82,699; Dec. 2.
Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 82,700; Dec. 2.
Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 82,701; Dec. 2.
Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 82,702; Dec. 2.
Ringwald, Clarence, North Hampton, assignor to Robbins & Myers, Inc., Springfield, Ohio. Combined drink mixer and juice extractor. Des. 82,703; Dec. 2.
Risler Corporation of America. (See Chardard, Jean B. D. L., assignor.)
Robbins & Myers, Inc. (See Ringwald, Clarence, assignor.)
Roberts, David, Collingswood, N. J., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Cabinet. Des. 82,704; Dec. 2.
Roberts, Samuel J., assignor to J. A. Schadt, Scranton, Pa. School desk and seat cover. 1,783,675; Dec. 2.
Robertson, Robert R., Evanston, Ill. Etching machine. 1,783,390; Dec. 2.
Rock of Ages Corporation. (See Chase, Elroy A., assignor.)
Rodenberg, Otto H., Cincinnati, Ohio. Pilot for furnaces. 1,783,676; Dec. 2.
Rodwell Sign Company. (See Hill, Harry L., assignor.)
Roehl, Louis M., Ithaca, N. Y. Bag holder. 1,783,749; Dec. 2.
Roesen, Oscar C., Brooklyn, assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Stereotype-plate-cooling apparatus. 1,783,345; Dec. 2.
Roessler & Hasslacher Chemical Company, The. (See McKeown, Thomas H., assignor.)
Rohleder, Firm, A. (See Schwerts, Alfons L., assignor.)
Ross, Martin, assignor of one-half to R. Ross, Evansville, Ind. Paper clip. 1,783,484; Dec. 2.
Ross, Ruby. (See Ross, Martin, assignor.)
Rössner, Heinrich, A. Steindorff, and K. Pfaff, assignors to Farbwerke Vorm. Meister Lucius and Bruning, Hochst-on-the-Main, Germany. Dressing seed. 1,783,200; Dec. 2.
Rouse, John E. (See Cooke, T. S., and Rouse.)
Roussean, Stanislas, Alton, assignor to Western Cartridge Company, East Alton, Ill. Process and apparatus for making bullets. 1,783,261; Dec. 2.
Rowland, Louis D., Seattle, Wash. Safety blow-off for boilers. 1,783,368; Dec. 2.
Royal Typewriter Company. (See Degener, Gustave O., assignor.)
Rubber Shock Insulator Corporation, The. (See Riker, Andrew L., jr., assignor.)
"Rusbol", Société à Responsabilité Limitée. (See Bolard, Alfred J. G., assignor.)
Russell, Burdsall & Ward Bolt & Nut Company. (See Burdsall, Richard L., assignor.)
Rutenber, Edwin A., assignor to A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Thermostatic device. 1,783,309; Dec. 2.
Ruths Steam Storage Incorporated. (See Wettstein, Fritz, assignor.)
Rutter, Argyle R., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Meter housing. 1,783,547; Dec. 2.
Sachse, Ernest C., Edgewater, N. J. Apparatus for facilitating the manipulation of manicuring. 1,783,262; Dec. 2.
Sadacca, Albert, assignor to Noma Electric Corporation, New York, N. Y. Ornamental illuminating device. 1,783,750; Dec. 2.
Sadtler, Philip B., Chicago, assignor to Swenson Evaporator Company, Harvey, Ill. Condenser. 1,783,369; Dec. 2.
Safat Società Anonima Fabbrica Armi-Torino. (See Mascarucci, Giuseppe, assignor.)
Safety Car Heating & Lighting Company, The. (See Schepmoes, Lindsley, assignor.)
St. Regis Paper Company. (See Menke, E. W., and Redington, assignors.)
Salter, Vernon D., Oakland, Calif. Game apparatus. 1,783,370; Dec. 2.
Samuelson, Alfred M., Henning, Minn. Cream cooler. 1,783,585; Dec. 2.
Sauer, Hans. (See Lappe, F., Koch, Pier, and Sauer.)
Saunders, Norman H., Homewood, C. E. Lomax, Oak Park, and T. C. Riebe, Chicago, Ill., assignors to Reserve Holding Company, Kansas City, Mo. Telephone-station equipment. 1,783,310; Dec. 2.

Sawyer, Harold L., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Device for softening stiffeners for boots and shoes. 1,783,587; Dec. 2.
Schadt, John A. (See Roberts, Samuel J., assignor.)
Schaeffer, Jacob H., Brooklyn, N. Y. Finger ring. Des. 82,705; Dec. 2.
Schaeffer, Max, Co. (See Parlato, Peter, assignor.)
Schepmoes, Lindsley, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Lighting fixture. 1,783,311; Dec. 2.
Schicle, Frederick, Niles, Mich. Cut-out valve. 1,783,628; Dec. 2.
Schiffman, Karl. (See Schulz, W., Frischke, and Schiffmann.)
Schjolin, Eric O., Birmingham, assignor to Yellow Truck & Coach Manufacturing Company, Pontiac, Mich. Radiator. 1,783,928; Dec. 2.
Schleicher, Frank J., St. Louis, Mo. Box lid. Des. 82,708; Dec. 2.
Schmidt, Friedrich K., Speldorf, Muelheim-on-the-Ruhr, Germany. Apparatus for preventing the passing of danger signals. 1,783,857; Dec. 2.
Schmidt, Max. (See Goldacker, P., and Schmidt.)
Schmidt, Maximilian P., Wiesbaden, and O. Limpach, Biebrich, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Isatin-carbazole compound vat dyestuff. 1,783,588; Dec. 2.
Schmidt'sche Heissdampf-Gesellschaft mit beschrankter Haftung. (See Hartman, Otto H., assignor.)
Schmieder, Robert S., assignor, by mesne assignments, to Milcor Steel Company, Milwaukee, Wis. Imitation plaster. 1,783,454; Dec. 2.
Schneible, Claude B., et al., as trustees. (See Schneible, Claude B., assignor.)
Schneible, Claude B., Evanston, Ill., assignor to C. B. Schneible, K. F. Schreier, and B. B. Schneider as trustees under the name of Joseph Schneible Trust. Column. 1,783,813; Dec. 2.
Schneible, Joseph, Trust. (See Schneible, Claude B.)
Schneider, Benjamin B., et al., as trustees. (See Schneible, Claude B., assignor.)
Schneider, Frederick W., Baltimore, Md., assignor to Pittsburgh Plate Glass Company. Bristle tester. 1,783,455; Dec. 2.
Schneider, George. (See Dreyfus, C., and Schneider.)
Schnuck, Carl F., New Haven, assignor, by mesne assignments, to Farrel-Birmingham Company, Incorporated, Ansonia, Conn. Calender. 1,783,263; Dec. 2.
Schorr, Paul C., and L. H. Syring, assignors to The Commonwealth Electric Company, St. Paul, Minn. Insert. 1,783,391; Dec. 2.
Schötteldreier, Wilhelm, Nachrodt in Westfalen, Germany, assignor to Vereinigte Stahlwerke A. G. Dusseldorf. Heating rolls. 1,783,524; Dec. 2.
Schreier, K. F., et al., as trustees. (See Schneible, Claude B., assignor.)
Schroder, John E., assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for handling glassware. 1,783,939; Dec. 2.
Schroeder, Arthur C., Syracuse, and W. D. Kimball, New York, assignors to Standard Sealing Equipment Corporation, Long Island City, N. Y. Carton handling and sealing apparatus. 1,783,814; Dec. 2.
Schubnell, Hugo H., New York, N. Y. Match-book holder. 1,783,751; Dec. 2.
Schulz, Werner, M. Frischke, and K. Schiffmann, assignors to Siemens & Halske, Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany. Telephone system. 1,783,312; Dec. 2.
Schur, Milton O., and R. H. Rasch, assignors to Brown Company, Berlin, N. H. Material for conversion into cellulose derivatives and producing the same. 1,783,313; Dec. 2.
Schwab, Francis C. (See Garrett, Edmund A., assignor.)
Scofield, Edgar, New York, assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y. Two-piece closure cap. 1,783,314; Dec. 2.
Scott, James G., Washington, D. C. Refrigerator. Des. 82,706; Dec. 2.
Scott & Williams, Inc. (See Sutphen, John L., assignor.)
Scovill Manufacturing Company. (See Boden, George, assignor.)
Scoville Manufacturing Company. (See George, J. S., and Sperry, assignors.)
Scully, John T., New York, N. Y. Handle for tools. 1,783,346; Dec. 2.
Seeger, Edwin W., South Milwaukee, assignor, by mesne assignments, to Cutler-Hammer Inc., Milwaukee, Wis. Push-button elevator-control system. 1,783,629; Dec. 2.
Seiwerts, Alfons L., Barmen-Langerfeld, assignor to the Firm A. Rohleder, Barmen, Germany. Valenciennes lace. 1,783,858; Dec. 2.
Self-Locking Carton Company. (See Troyk, Felix, assignor.)
Selzer, Clarence F., North Milwaukee, Wis. Ship-steering device. 1,783,752; Dec. 2.
Selzer, Glenn, Protection, Kans. Choke and needle valve control. 1,736,677; Dec. 2.
Sexton, John R., Meriden, Conn. Tinsel cord. 1,783,315; Dec. 2.
Shaw, Al B., assignor to D. M. Storey, Santa Monica, Calif. Paper clip or fastener. 1,783,678; Dec. 2.
Shaw, Thomas E., assignor of three-fourths to The W. E. Floding Company, Atlanta, Ga. Garment. 1,783,485; Dec. 2.
Shay, Ralph R., assignor, by mesne assignments, to T. A. Banning, jr., Chicago, Ill. Moistener for gummed strips and the like. 1,783,679; Dec. 2.
Sheaffer, Walter A., and W. R. Cuthbert, Fort Madison, Iowa; said Cuthbert assignor, by mesne assignments, to Pen Desk Set Company. Fountain-pen desk stand. 1,783,630; Dec. 2.
Sheedy, Frank T., H. C. Wood, and L. Traung, assignors to The Traung Company, San Francisco, Calif. Transfer press. 1,783,888; Dec. 2.
Sheldrick, Laurence S., assignor to Ford Motor Company, Dearborn, Mich. Instrument panel. Des. 82,710; Dec. 2.
Shelton, Dwight J. (See King, C. B., Jacoby, and Shelton.)
Shelton, Edward L., Memphis, Tenn. Combined license-tag mounting and signal and tail light. 1,783,316; Dec. 2.
Shepard, Alban F., Richmond, England. Converting rotary into reciprocating motion and vice versa. 1,783,589; Dec. 2.
Sherman, Rallston M., Glastonbury, assignor to The Silent Glow Oil Burner Corporation, Hartford, Conn. Oil stove. 1,783,392; Dec. 2.
Sherover, Max, assignor to Golding Bros. Company, Inc., New York, N. Y. Mattress cover. Des. 82,707; Dec. 2.
Shields, James J., Guelph, Ontario, Canada. Gate operating and locking mechanism. 1,783,753; Dec. 2.
Shoe Form Co. (See De Witt, William J., assignor.)
Shoemaker, William D. (See Young, Frank L., assignor.)
Siebel, Gustav. (See Beck, A., and Siebel.)
Siemens & Halske Aktiengesellschaft. (See Schulz, W., Frischke, and Schiffmann, assignors.)
Sierad, Milton, assignor to George W. Button Corporation, New York, N. Y. Face-powder container. Des. 82,709; Dec. 2.
Signode Steel Strapping Company. (See Leslie, John W., assignor.)
Sigsbey, Fred W., Willoughby, Ohio. Feed apron for wringers. 1,783,347; Dec. 2.
Silent Glow Oil Burner Corporation, The. (See Sherman, Rallston M., assignor.)
Siller, Everett F. (See Mayer, C. W., and Siller.)
Simon, Henry H., Greenville, S. C. Airplane. 1,783,590; Dec. 2.
Sinclair, Peter S., Holyoke, Mass. Ball-bearing mounting for dandy rolls. 1,783,317; Dec. 2.
Sindeband, Maurice L., New York, N. Y., and O. K. Marti, Haddonfield, N. J., assignors to American Brown Boveri Electric Corporation, New York, N. Y. Power system and apparatus therefor. 1,783,548; Dec. 2.
Sirotek, Louis, Chicago, Ill. Mixing valve. 1,783,264; Dec. 2.
Sladky, Alexander C., assignor to National Enameling and Stamping Company, Milwaukee, Wis. Insect trap. 1,783,631; Dec. 2.
Smith, A. O., Corporation. (See Bell, Raymond T., assignor.)
Smith, A. O., Corporation. (See Crawford, William E., assignor.)
Smith, Bernard P., assignor to The Regina Corporation, Rahway, N. J. Disinfecting attachment for vacuum cleaners. 1,783,859; Dec. 2.
Smith, Herman A., G. H. Thomson, Worcester, and S. B. Stafford, Oxford, assignors to Rice, Barton & Fales, Incorporated, Worcester, Mass. Gearing for textile-printing machines. 1,783,889; Dec. 2.
Smith, Winfield D., Deal, N. J., assignor to L. G. Sylvester, Scranton, Pa. Electrical pickup. 1,783,265; Dec. 2.
Smitmans, John A., assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Manipulator. 1,783,815; Dec. 2.
Société Anonyme pour l'Exploitation des Procédés Maurice Leblanc-Vickers. (See Follain, Raoul F., assignor.)
Société P. & P. Levy dite Etablissements J et S Levy Fréres. (See Lévy, Pierre, assignor.)
Solar Refining Company, The. (See Werkenthin, Theodore A., assignor.)
Solomon, Charles, Yonkers, N. Y., assignor, by mesne assignments, to Superior Hat Company, St. Louis, Mo. Hat. 1,783,549; Dec. 2.
Sommer, William H., Peoria, Ill. Machine for making welded reenforcing fabrics. 1,783,944; Dec. 2.
Sommer, William H., Peoria, Ill. Heating apparatus. 1,783,945; Dec. 2.
Sommer, William H., Peoria, Ill. Wire-fence machine. 1,783,946; Dec. 2.
Sommer, William H., Peoria, Ill. Stop mechanism for detecting irregularities in wire feeding. 1,783,947; Dec. 2.
Sommer, William H., Peoria, Ill. Making wire fabrics. 1,783,948; Dec. 2.
Soubier, Leonard D., assignor to Owens-Illinois Glass Company, Toledo, Ohio. Glassware-forming machine. 1,783,201; Dec. 2.
Speck, John P. (See Purdy, W. G., and Speck.)
Spencer, Owen H., Indianapolis, Ind. Engine-cooling cowl. 1,783,318; Dec. 2.
Sperry Gyroscope Company Inc. (See Bates, Mortimer F., assignor.)
Sperry, Roger S. (See George, J. S., and Sperry.)

Sperry, Samuel E., Hollis, assignor to Intertype Corporation, Brooklyn, N. Y. Matrix magazine. 1,783,929; Dec. 2.
Squibb, E. R., and Sons. (See Keelan, Harry S., assignor.)
Squire, Mary E., Manitowoc, Wis. Spall-burning kiln. 1,783,632; Dec. 2.
Stafford, Stephen B. (See Smith, H. A., Thomson, and Stafford.)
Standard Engineering Works, The. (See Mills, Bertram M., assignor.)
Standard Modern Printing Co. (See Brooks, C. P., jr., and Kovner, assignors.)
Standard Oil Company. (See Cooke, T. S., and Rouse, assignors.)
Standard Oil Company. (See Wood, W. E., and Bachelder, assignors.)
Standard Sealing Equipment Corporation. (See Schroeder, A. C., and Kimball, assignors.)
Statham, Noel, Irvington-upon-Hudson, N. Y. Flexible fastening device. 1,783,550; Dec. 2.
Stearns & Foster Company, The. (See Parsons, Ethel, assignor.)
Steel Heddle Manufacturing Company. (See Kaufmann, John J., assignor.)
Steel Scaffolding Company Limited, The. (See Marshall, Arnold C., assignor.)
Steen, Willa. (See Bolton, Becher B., assignor.)
Stein, Frederick W., Atchison, Kans. Radiocabinet. Des. 82,711; Dec. 2.
Steindorff, Adolf. (See Rössner, H., Steindorff, and Pfaff.)
Stepelton, Aubry F., assignor of one-half to W. R. Kirk, Chicago, Ill. Soap-dispensing shaving brush. 1,783,754; Dec. 2.
Stephenson Protectahood Corporation. (See Stephenson, Robert J., assignor.)
Stephenson, Robert J., assignor to Stephenson Protectahood Corporation, Auburn, N. Y. Lining for automobile hoods. 1,783,816; Dec. 2.
Sterling, Claude H., assignor to General Motors Research Corporation, Detroit, Mich. Overgear transmission. 1,783,393; Dec. 2.
Sterling, Claude H., assignor to General Motors Corporation, Detroit, Mich. Overgear transmission. 1,783,930; Dec. 2.
Stevens, Albert B., Inspiration, Ariz. Apparatus for leaching and washing ores by the use of gas. 1,783,591; Dec. 2.
Stevenson, Robert A., Wilmington, Del. Combined lifting and carrying tool. 1,783,680; Dec. 2.
Stewart, Duncan J., assignor to H. D. Colman, Rockford, Ill. Light-control system. 1,783,633; Dec. 2.
Stewart, Patterson O., New York, N. Y. Antifouling spark plug. 1,783,525; Dec. 2.
Stewart, Patterson O., New York, N. Y. Spark plug. 1,783,526; Dec. 2.
Stimpson, Robert H. (See Van der Pyl, E., and Stimpson.)
Stockard, Richard L., Forrest City, Ark. Lap link. 1,783,860; Dec. 2.
Stone, J., & Company Limited. (See Martin, F. G., and Ramsay, assignors.)
Storey, Dorothy M. (See Shaw, Al B., assignor.)
Stranahan, Samuel A., Flint, assignor to General Motors Corporation, Detroit, Mich. Steel-plate spring shackles. 1,783,394; Dec. 2.
Sturgis Posture Chair Company. (See Huntley, Reginald C., assignor.)
Sullivan Machinery Company. (See Oliphant, John, assignor.)
Sundback, Gideon, Meadville, Pa., assignor to Hookless Fastener Company. Fastener. Re17,891; Dec. 2.
Sundhaussen, Hermann, Dusseldorf-Rath, assignor to Rheinische Metallwaaren-und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Compensator for brush-resistance voltage drop in motor-control systems. 1,783,527; Dec. 2.
Superior Hat Company. (See Solomon, Charles, assignor.)
Superior Hat Company. (See Wittcoff, Edward, assignor.)
Sutphen, John L., Philadelphia, Pa., assignor to Scott & Williams, Inc., New York, N. Y. Knitting machine. 1,783,202; Dec. 2.
Swann Research, Inc. (See Durgin, C. B., Gerber, and Logue, assignors.)
Swenson Evaporator Company. (See Sadtler, Philip B., assignor.)
Sylvester, Louis G. (See Smith, Winfield D., assignor.)
Symons, Arthur H., assignor to Symons Clamp & Mfg. Company, Chicago, Ill. Shore. 1,783,266; Dec. 2.
Symons Clamp & Mfg. Company. (See Symons, Arthur H., assignor.)
Syring, Louis H. (See Schorr, P. C., and Syring.)
Szegvari, Andrew. (See Klein, P., and Szegvari.)
Tannehill, Vernon L., assignor to Fort Wayne Engineering and Manufacturing Company, Fort Wayne, Ind. Control mechanism for electric motors. 1,783,634; Dec. 2.
Tapp, Ernest T. J., London, England. Self-propelled road vehicle. 1,783,890; Dec. 2.
Tatum, John J. (See Emerson, G. H., and Tatum.)
Taylor, Alston D., Los Angeles, Calif. Automatic gas-control valve. 1,783,395; Dec. 2.
Taylor, Cecil H., Detroit, Mich. Shimmying dampener. 1,783,348; Dec. 2.
Teletype Corporation. (See Krum, Howard L., assignor.)
Tenney, Perry L., and H. E. Fidler, Muncie, Ind., assignors to General Motors Corporation, Detroit, Mich. Transmission control. 1,783,931; Dec. 2.
Terry, Owen A., Detroit, Mich. Fountain-pen-refill indicator. 1,783,681; Dec. 2.
Thatcher, J. H. (See Miller, Jesse P., assignor.)
Thibert, Napoleon R., Worcester, Mass. Feed tank. 1,783,891; Dec. 2.
Thiem, Edward A., Minneapolis, Minn. Antifrost device. 1,783,861; Dec. 2.
Thiess, Karl, and E. Fischer, Frankfort-on-the-Main, Hochst, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Vat dyestuff of the benzothionaphthene series. 1,783,592; Dec. 2.
Thomas, George C., Swampscott, Mass., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Hinge last. 1,783,682; Dec. 2.
Thomas, George C., Swampscott, Mass., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Hinged last. 1,783,862; Dec. 2.
Thompson, Willsie A. S. (See Gunn, R. W. and Thompson.)
Thomson, George H. (See Smith, H. A., Thomson, and Stafford.)
Thorpe, Samuel T. (See Broadwell, H. S., and Thorpe.)
Three-M Manufacturing Company. (See Moore, Walter N., assignor.)
Tillberg, Charles, Chicago, Ill. Door-operated signal. 1,783,267; Dec. 2.
Time-O-Stat Controls Company. (See Hotchkiss, Clifford, assignor.)
Time-O-Stat Controls Company. (See Leach, Edgar J., assignor.)
Titania Corporation. (See von Bichowsky, Foord, assignor.)
Tokheim Oil Tank and Pump Company. (See Ellers, Frank B., assignor.)
Tomlinson, Julian D., College Place, Wash. Crack filler. 1,783,683; Dec. 2.
Traung Company, The. (See Sheedy, F. T., Wood, and Traung, assignors.)
Traung, Louis. (See Sheedy, F. T., Wood, and Traung.)
Traver, Harry G., Beaver Falls, Pa. Amusement ride and car therefor. 1,783,268; Dec. 2.
Travers, John T., Columbus, C. H. Lewis, Harpster, and O. M. Urbain, Columbus, assignors to The Ohio Sanitary Engineering Corporation, Columbus, Ohio. Mineral adsorbent and manufacturing same. 1,783,396; Dec. 2.
Trefethen, Charles G., and A. G. Belden, assignors to Norton Company, Worcester, Mass. Grinding machine. 1,783,755; Dec. 2.
Tregoning, William C., Milwaukee, Wis., assignor, by mesne assignments, to Cutler-Hammer, Inc. Electric snap switch. 1,783,635; Dec. 2.
Tregoning, William C., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electric snap switch. 1,783,636; Dec. 2.
Trico Products Corporation. (See Oishei, J. R., Hueber, Paulus, and Horton, assignors.)
Tritle, John F., Erie, Pa., assignor to General Electric Company. Electrical resistor. 1,783,863; Dec. 2.
Trobeck, Olof E., Berlin, Germany, assignor to The National Acme Company, Cleveland, Ohio. Cross-tool slide for multiple-spindle automatic screw machines. 1,783,528; Dec. 2.
Troyk, Felix, Chicago, Ill., assignor to Self-Locking Carton Company. Cushioned carton. 1,783,397; Dec. 2.
Trumble, John T., Lansing, assignor to General Motors Corporation, Detroit, Mich. Fuel pump. 1,783,940; Dec. 2.
Trumbull Electric Manufacturing Company, The. (See Getchell, Benjamin E., assignor.)
Trumbull Electric Manufacturing Company, The. (See Hanny, Charles E., assignor.)
Trumbull Electric Manufacturing Company, The. (See Leppert, Henry E., assignor.)
Trussa, George. (See Israel, H. H., and Trussa.)
Tunstall, William B., Worcester, Mass. Mechanism for player pianos. 1,783,319; Dec. 2.
Turner, Charles W., et al. (See Reed, Andrew H., assignor.)
Tuthill, James B. (See Wilsey, Irven H., assignor.)
Tweddell, Oscar G., assignor of sixty per cent to F. Fiesselmann, Detroit, Mich. Vertical turret lathe. 1,783,637; Dec. 2.
Typograph-Gesellschaft m. b. H. (See Dorneth, Julius, assignor.)
Union Switch & Signal Company, The. (See Grondahl, L. O., and Howard, assignors.)
Unique Spark Plug Cleaner Co. (See Floyd, Ray H., assignor.)
United Engineering & Foundry Company. (See Klein, Clarence J., assignor.)
United Engineering & Foundry Company. (See Smitmans, John A., assignor.)
United Research Corporation. (See Nystrom, Martin, assignor.)
United Shoe Machinery Corporation. (See Barclay, W. R., and Ricks, assignors.)
United Shoe Machinery Corporation. (See Finn, Sidney J., assignor.)
United Shoe Machinery Corporation. (See Sawyer, Harold L., assignor.)

United States Glass Company. (See Beam, Charles C., assignor.)
Universal Oil Products Company. (See Dubbs, Carbon P., assignor.)
Universal Oil Products Company. (See Egloff, G., and Benner, assignors.)
Universal Oil Products Company. (See Egloff, G., and Morrell, assignors.)
Universal Oil Products Company. (See Morrell, J. C., and Benner, assignors.)
Universal Oil Products Company. (See Pollock, Robert T., assignor.)
Unke, Herman A., Cleveland, Ohio. Thread protector. 1,783,892; Dec. 2.
Unke, Herman A., Cleveland, Ohio. Pipe end protector. 1,783,893; Dec. 2.
Urbain, Oliver M. (See Travers, J. T., Lewis, and Urbain.)
Van der Pyl, Edward, Wilton, and R. H. Stimpson, assignors to Automatic Packaging Machinery Company, Nashua, N. H. Carton-feeding magazine. 1,783,912; Dec. 2.
Vasey, Joseph N., Brookfield, Ill. Musical instrument. 1,783,638; Dec. 2.
Vereinigte Stahlwerke A. G. Dusseldorf. (See Schöttel-dreier, Wilhelm, assignor.)
Victor, Benjamin J., Oak Park, assignor to Victor Manufacturing & Gasket Company, Chicago, Ill. Safety attachment for punch presses. 1,783,817; Dec. 2.
Victor Manufacturing & Gasket Company. (See Victor, Benjamin J., assignor.)
Vogt, Clarence W., assignor to Vogt Instant Freezers, Inc., Louisville, Ky. Apparatus and process for treating materials. 1,783,864; Dec. 2.
Vogt, Clarence W., Louisville, Ky., assignor to Vogt Instant Freezers, Inc. Machine for processing materials. 1,783,865; Dec. 2.
Vogt, Clarence W., assignor to Vogt Instant Freezers, Inc., Louisville, Ky. Process and apparatus for treating materials. 1,783,866; Dec. 2.
Vogt, Clarence W., Louisville, Ky., assignor to Vogt Instant Freezers, Inc. Machine for processing materials. 1,783,867; Dec. 2.
Vogt Instant Freezers, Inc. (See Vogt, Clarence W., assignor.)
Volet, René A. L., La Vareune St. Hilaire, France. Pump. 1,783,486; Dec. 2.
Volhardt, Heinrich, Frankfort-on-the-Main, Germany. Whipping top. 1,783,593; Dec. 2.
Von Bichowsky, Foord, Glendale, assignor to Titania Corporation, Los Angeles, Calif. Titanium-acid sulphate and producing same. 1,783,684; Dec. 2.
Von Frankenberg, Arthur, New York, N. Y. Water-tight receptacle. 1,783,756; Dec. 2.
Von Nessen, Walter, New York, N. Y., assignor to Efcolite Corporation, Trenton, N. J. Lighting-fixture bracket or article of similar nature. Des. 82,712; Dec. 2.
Von Staden, Hans A., and A. Hoehn, Neuroessen, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Dehydration of moist fuels. 1,783,757; Dec. 2.
Vorclone Corporation. (See Partlow, Alfred, assignor.)
Voss, James D., Oakleigh, near Melbourne, Australia. Vulcanizing appliance. 1,783,894; Dec. 2.
Wadsworth, George H. (See Welton, P. E., and Wadsworth.)
Wadsworth Watch Case Co., The. (See McFarland, James C., assignor.)
Wadsworth Watch Case Co., The. (See Otten, Lawrence F., assignor.)
Wagner Electric Corporation. (See Welchsel, Hans, assignor.)
Walker, Arthur W., Malden, Mass. Thermostatic control apparatus. 1,783,320; Dec. 2.
Walker, Eric E. (See Ellis, G. H., Olpin, and Walker.)
Waterbury Farrel Foundry and Machine Company, The. (See Candee, Zenas P., assignor.)
Waterman, Waldo D., Santa Monica Canyon, Calif. Aeroplane control. 1,7835,29; Dec. 2.
Watt, Elihu D., La Grange, and G. W. Conover, Chicago, assignors to The Conover Company, Chicago, Ill. Dish-washing machine. 1,783,349; Dec. 2.
Watts, James R., New Castle, Del., assignor to American Manganese Steel Company, Chicago, Ill. Dipper tooth. 1,783 350; Dec. 2.
Waukesha Motor Company. (See Horning, Harry L., assignor.)
Wayles, Edgar E., East Hartford, Conn. Muffler for burners. 1,783,685; Dec. 2.
Wayne Company. (See Geyer, B. F., and Jauch, assignors.)
Wayne Pump Company, The. (See MacMillen, William C., assignor.)
Weaver, Allan, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Electrical transmission of pictures. 1,783,321; Dec. 2.
Welchsel, Hans, assignor to Wagner Electric Corporation, St. Louis, Mo. Commutator. 1,783,371; Dec. 2.
Weindel, Fred, jr., Allentown, assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Escutcheon plate. Des. 82,713; Dec. 2.
Weiss, Carl W., Brooklyn, N. Y. Power-transmission device. 1,783,758; Dec. 2.
Weiss, Harry H., Chicago, Ill. Material-transfer apparatus. 1,783,487; Dec. 2.
Welton, P. E., Engineering Company, The. (See Welton, P. E., and Wadsworth, assignors.)
Welton, Park E., and G. H. Wadsworth, assignors to The P. E. Welton Engineering Company, Akron, Ohio. Fuel briquette. 1,783,759; Dec. 2.
Wenzel, Max, Muldenstein, near Bitterfeld, Germany. Paper manufacture. 1,783,868; Dec. 2.
Werkenthin, Theodore A., assignor to The Solar Refining Company, Lima, Ohio. Process of and apparatus for the fractional extraction of petroleum hydrocarbons with alcohol. 1,783,203; Dec. 2.
Werner, Frank J., Portage Township, Porto County, Ind. Burner structure. 1,783,818; Dec. 2.
Western Cartridge Company. (See Rousseau, Stanislas, assignor.)
Westinghouse Electric & Manufacturing Company. (See Cone, James H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Ehrenfeld, Ralph, assignor.)
Westinghouse Electric & Manufacturing Company. (See Forshee, Frank F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Goldsborough, Shirley L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hanna, Clinton R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jordan, Richard H., assignor.)
Westinghouse Electric and Manufacturing Company. (See MacGahan, Paul, assignor.)
Westinghouse Electric & Manufacturing Company. (See Matthews, Howard D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Miller, Frederic H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Packer, Lewis C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Pearce, George C., assignor.)
Westinghouse Electric and Manufacturing Company. (See Peters, J. F., and Maslin, assignors.)
Westinghouse Electric & Manufacturing Company. (See Rutter, Argyle R., assignor.)
Westinghouse Electric & Manufacturing Company. (See White, Harold E., assignor.)
Westinghouse Lamp Company. (See Ferguson, J. E., assignor.)
Westinghouse Lamp Company. (See Ferguson, J. E., Conn. and Hoffman, assignors.)
Westinghouse Lamp Company. (See Garrett, Milan W., assignor.)
Westinghouse Lamp Company. (See Hoyt, Milton A., assignor.)
Westinghouse Lamp Company. (See Johnson, Allan W., assignor.)
Westinghouse Lamp Company. (See Massie, Arnold C., assignor.)
Wettstein, Fritz, Summit, N. J., assignor, by mesne assignments, to Ruths Steam Storage Incorporated, New York, N. Y. Steam plant. 1,783,204; Dec. 2.
Whirldry Corporation. (See Dunham, George W., assignor.)
White, Harold E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Protective relay. 1,783,552; Dec. 2.
White, Harry B., Canton, Ohio, assignor to The Hoover Company. Cleaner. 1,783,205; Dec. 2.
Whitin Machine Works. (See Aveyard, Charles, assignor.)
Whitin Machine Works. (See Holt, Edwin M., assignor.)
Whitney, F. A., Carriage Company. (See Blanchard, Berton L., assignor.)
Whitney, Karl H., assignor to Whitney Manufacturing Company, Kirksville, Mo. Supporting bracket for window hangings. Re17,896; Dec. 2.
Whitney Manufacturing Company. (See Whitney, Karl H., assignor.)
Wicaco Machine Corporation, The. (See Lawser, Charles W., assignor.)
Wickenden, Leonard, Flushing, assignor to J. J. Naugle, Rye, N. Y. Treating saccharine fluids. 1,783,551; Dec. 2.
Widdis, Albert L., Harrisville, Mich. Antifriction attachment for vessels. 1,783,322; Dec. 2.
Wigton, George H., Eureka, Utah. Concentration of ores. 1,783,206; Dec. 2.
Wigton, George H., Eureka, Utah. Concentration of ores. 1,783,207; Dec. 2.
Wilbur, Lawrence S., Evanston, Ill. Splice bar or fish-plate. 1,783,351; Dec. 2.
Wilbur, Lawrence S., Evanston, Ill. Splice bar or fish-plate. 1,783,352; Dec. 2.
Wilbur, Lawrence S., Evanston, Ill. Splice bar or fish-plate. 1,783,353; Dec. 2.
Wilhelm, Ottmar, assignor to Maschinenfabrik Augsburg-Nuernberg, Aktiengesellschaft, Augsburg, Germany. Rotary intaglio-printing multimachines. 1,783,819; Dec. 2.
Willard, Donald E. (See Blake, Dennis B. D., assignor.)
Williams Company, The. (See Boehler, Raymond F., jr., assignor.)
Williams Oil-O-Matic Heating Corporation. (See Celander, Philip A., assignor.)
Williams, Percy Q., assignor to Owens-Illinois Glass Company, Toledo, Ohio. Glassware-annealing leer. 1,783,208; Dec. 2.
Williams, Samuel F., San Diego, Calif. Folding ladder. 1,783,686; Dec. 2.

Wilsey, Irven H., assignor to J. B. Tuthill, Chicago, Ill. Spur-gear pump. 1,783,209; Dec. 2.
Wilson, Elmer L., Indianapolis, Ind. Corner clamp. 1,783,456; Dec. 2.
Wilson, Ira J. (See Miller, Frank W., assignor.)
Wilson, Robert G., Wayne, and R. M. Wilson, Upper Darby, Pa., assignors to The Huffman Manufacturing Company, Dayton, Ohio. Liquid measuring and dispensing can. 1,783,457; Dec. 2.
Wilson, Ronald M. (See Wilson, Robert G., and R. M.)
Windsor, George W., assignor of one-third to A. E. Grimm, Sacramento, Calif. Vertical-lift airplane. 1,783,458; Dec. 2.
Wintbrop Chemical Company. (See Reddelien, G., Lange, and Pfannenstiel, assignors.)
Wire Novelty Manufacturing Co., The. (See Domkee, John H., assignor.)
Wittcoff, Edward, assignor to Superior Hat Company, St. Louis, Mo. Hat. 1,783,760; Dec. 2.
Wolfer, Paul C., Everett, Mass. Boot or shoe. 1,783,210; Dec. 2.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Cutting cushion for folding cylinders. Re17,892; Dec. 2.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Tilting casting box. 1,783,323; Dec. 2.
Wood, Hugh C. (See Sheedy, F. T., Wood, and Traung.)
Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
Wood, William E., Alton, and W. H. Bacheldor, Wood River, Ill., assignors to Standard Oil Company, Whiting, Ind. Head-locking mechanism for containers. 1,783,687; Dec. 2.
Woodbury, Clifford A., Media, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Detonator and process of making. 1,783,372; Dec. 2.
Woods, Thomas E., Redding, Calif. Vise. 1,783,594; Dec. 2.
Worrell, Howard S., Ardmore, Pa., assignor to Dictaphone Corporation, Bridgeport, Conn. Phonographic recording. 1,783,761; Dec. 2.
Worthington, John T., Long Beach, assignor to Petroleum Rectifying Company, California, Los Angeles, Calif. Dehydrator having horizontal revolving electrodes. 1,783,595; Dec. 2.
Woytych, Raymond M., Fond du Lac, Wis., assignor, by mesne assignments, to The Heald Machine Company, Worcester, Mass. Work holder. 1,783,596; Dec. 2.
Wright, Herbert, jr. (See John, W. J., and Wright.)
Wright, James G. E., Alplans, N. Y., assignor to General Electric Company. Restoring shrunken films. 1,783,895; Dec. 2.
Wurlod, Luis, Buenos Aires, Argentina. Spittoon of variable height fit for dentists or physicians. 1,783,688; Dec. 2.
Wuyts, Joseph, Staten Island, assignor to Black, Starr and Frost, New York, N. Y. Plate or similar article. Des. 82,714; Dec. 2.
Yarnall, David R., and J. Kildare, assignors to Yarnall-Waring Company, Philadelphia, Pa. Packing for plungers. 1,783,762; Dec. 2.
Yarnall-Waring Company. (See Yarnall, D. R., and Kilhare, assignors.)
Yellow Truck and Coach Manufacturing Company. (See Ball, Charles O., assignor.)
Yellow Truck & Coach Manufacturing Company. (See Bock, Carl J., assignor.)
Yellow Truck & Coach Manufacturing Company. (See Schjolin, Eric O., assignor.)
Young, Frank L., assignor to W. D. Shoemaker, Washington, D. C. Extension-clutch control for tractor equipment. 1,783,324; Dec. 2.
Young, Leland G., Muscatine, Iowa. Clothes drier. 1,783,488; Dec. 2.
Zeb, Joseph, Spokane, Wash. Pea or like material splitting mechanism. 1,783,489; Dec. 2.
Zimmers, Joseph B., Chicago, Ill. Drip and trim molding. 1,783,896; Dec. 2.
Zubsty, Joseph, assignor to A C Spark Plug Company, Flint, Mich. Reset mechanism for odometers. 1,783,398; Dec. 2.
Zubaty, Joseph, assignor to A C Spark Plug Company, Flint, Mich. Ammeter. 1,783,932; Dec. 2.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 2D DAY OF DECEMBER, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Acid, Producing colloidal silicic. A. P. Okatoff. 1,783,304; Dec. 2.
Acid sulphate and producing same, Titanium. F. von Bichowsky. 1,783,684; Dec. 2.
Adding machine and cash register, Combined duplex. E. Kassner. 1,783,943; Dec. 2.
Adjustable chair. R. C. Huntley. 1,783,426; Dec. 2.
Adjustable clamp. H. V. Holman. 1,783,713; Dec. 2.
Aerofoil construction. N. W. Dalton. 1,783,413; Dec. 2.
Aeroplane control. W. D. Waterman. 1,783,529; Dec. 2.
Air-filter cells, Apparatus for cleaning. J. R. McConnell and A. S. Lewis, jr. 1,783,194; Dec. 2.
Air moistener for internal-combustion engines. E. Miller, 1,783,254; Dec. 2.
Air motor. D. R. Oliver. 1,783,669; Dec. 2.
Airplane. H. H. Simon. 1,783,590; Dec. 2.
Airplane, Vertical lift. G. W. Windsor. 1,783,458; Dec. 2.
Air preheater for manifolds. E. H. Falk. 1,783,781; Dec. 2.
Ammeter. J. Zubaty. 1,783,932; Dec. 2.
Amplifiers, Compensating system for. J. Bethenod. 1,783,557; Dec. 2.
Amusement ride and car therefor. H. G. Traver. 1,783,268; Dec. 2.
Anchor for drilling mechanism. G. W. Hulshizer. 1,783,200; Dec. 2.
Antenna weight. C. B. Mirick. 1,783,299; Dec. 2.
Antifriction attachment for vessels. A. L. Widdis. 1,783,322; Dec. 2.
Antifrost device. E. A. Thiem. 1,783,861; Dec. 2.
Apparatus for diagnosing human ailments. I. M. Rabinowitch. 1,783,451; Dec. 2.
Apparatus for preventing the passing of danger signals. F. K. Schmidt. 1,783,857; Dec. 2.
Apparel, Wearing. J. J. Hayes. 1,783,505; Dec. 2.
Apron, Turpentine. J. O. Huxford. 1,783,650; Dec. 2.
Automobile gate. P. J. McGrath. 1,783,579; Dec. 2.
Automobile jack. A. J. G. Bolard. 1,783,822; Dec. 2.
Automobile signal. H. Grob. 1,783,422; Dec. 2.
Back filler. W. R. Bunch. 1,783,941; Dec. 2.
Bag: *See*—
Valve bag.
Bag for umbrellas and pocketbooks, Combined lady's hand. A. G. Berwin. 1,783,275; Dec. 2.
Bags, Making. H. B. Laymon. 1,783,845; Dec. 2.
Banjos, Resonating means for. W. L. Lange. 1,783,244; Dec. 2.
Barytes, Treating. C. P. De Lore and B. B. McHan. 1,783,778; Dec. 2.
Baseboard construction. I. A. Baum. 1,783,180; Dec. 2.
Bath fixture. G. P. Boehm. 1,783,492; Dec. 2.
Battery ignition system. C. F. Reis. 1,783,343; Dec. 2.
Bearing for connecting-rod assemblies, Crank-pin. H. L. Brownback. 1,783,698; Dec. 2.
Bearing mounting for dandy rolls, Ball-. P. S. Sinclair. 1,783,317; Dec. 2.
Bearings, Assembling antifriction. F. G. Hughes. 1,783,791; Dec. 2.
Bearings, Making. C. H. Landers. 1,783,438; Dec. 2.
Bed, Sliding-spiral-spring. P. P. Bebry. 1,783,531; Dec. 2.
Binder, Loose-leaf. J. L. McMillan. Re17,895; Dec. 2.
Bit: *See*—
Drill bit.
Blast furnace. J. P. Dovel. 1,783,416; Dec. 2.
Block: *See*—
Crown block.
Boat, Submarine. G. J. K. Behrmann. 1,783,691; Dec. 2.
Boats, Propelling mechanism for. E. H. Fahrney. 1,783,331; Dec. 2.
Bobbin or spool cap. J. R. Mitchell. 1,783,339; Dec. 2.
Boiler installation, Multipressure-. G. H. Hartmann. 1,783,842; Dec. 2.
Boiler return and vacuum trap. S. C. Knefel. 1,783,381; Dec. 2.
Boilers, Safety blow-off for. L. D. Rowland. 1,783,368; Dec. 2.
Bomb sight. M. F. Bates. 1,783,769; Dec. 2.
Book assembly mechanism, Automatic. C. L. Moyer. 1,783,625; Dec. 2.
Bookcase. S. E. Crowell. 1,783,703; Dec. 2.
Boot or shoe. P. C. Wolfer. 1,783,210; Dec. 2.
Boots and shoes, Method of and apparatus for finishing the bottoms of. C. P. Brooks, jr., and S. Kovner. 1,783,401; Dec. 2.
Bottle. R. Barbas. Des. 82,652–3; Dec. 2.
Bottle. R. Barbas. Des. 82,716; Dec. 2.
Bottle cap. F. J. MacDonald. 1,783,909; Dec. 2.
Bottle-rinsing machine. F. Boeschel. 1,783,776; Dec. 2.
Bottle stopper. R. R. Hutcheson. Des. 82,679; Dec. 2.
Bowl, Semiindirect-diffusing. F. C. Baker. Des. 82,715; Dec. 2.
Box: *See*—
Tilting casting box.
Box. R. W. Phelps. Des. 82,689; Dec. 2.
Box lid. F. J. Schleicher. Des. 82,708; Dec. 2.
Brace and bit drill, Combination. W. C. Hamilton. 1,783,786; Dec. 2.
Bracelet clasp. M. Miller. 1,783,743; Dec. 2.
Bracket: *See*—
Supporting bracket.
Bracket for window hangings, Supporting. K. H. Whitney. Re17,896; Dec. 2.
Brake: *See*—
Electromagnetic brake. Vehicle brake.
Brake adjuster. H. Brost. 1,783,902; Dec. 2.
Brake cross shaft mounting. C. J. Boek. 1,783,774; Dec. 2.
Brake-operating mechanism. P. Bastien. Re17,888; Dec. 2.
Brickmaking machine and method. H. Hilgendorf. 1,783,287; Dec. 2.
Bridge, Trolley. R. H. Greegor. 1,783,710; Dec. 2.
Brining machine. J. J. Barry. 1,783,898; Dec. 2.
Bristle tester. F. W. Schneider. 1,783,455; Dec. 2.
Broiler. C. M. Dibble. 1,783,183; Dec. 2.
Brush. A. H. Hatchett, sr. 1,783,788; Dec. 2.
Brush, Soap-dispensing shaving. A. F. Stepelton. 1,783,754; Dec. 2.
Buckle, Shoe. S. M. Riker. Des. 82,694–7; Dec. 2.
Buckle, Shoe. S. M. Riker. Des. 82,699–702; Dec. 2.
Buckles, Clamp lever for. W. J. Morse. 1,783,854; Dec. 2.
Budget system, Household. J. E. Kreiling. 1,783,800; Dec. 2.
Building construction. J. V. Montrief. 1,783,383; Dec. 2.
Building-construction unit. J. F. Loucks. 1,783,248; Dec. 2.
Building, Restaurant. A. J. Errett and C. P. Peseck. Des. 82,663; Dec. 2.
Bullets, Process and apparatus for making. S. Rousseau. 1,783,261; Dec. 2.
Bumper. L. Ferdinand. 1,783,875; Dec. 2.
Bumper, Automobile. F. J. Laher. 1,783,335; Dec. 2.
Bung fixture for sheet-metal containers. T. W. Rieke. 1,783,927; Dec. 2.
Burglarproof lock. D. Copell. 1,783,905; Dec. 2.
Burner: *See*—
Fuel burner. Ribbon burner.
Burner construction, Oil-. H. W. Gaston. 1,783,567; Dec. 2.
Burner structure. F. J. Werner. 1,783,818; Dec. 2.
Bus body. E. R. Hewitt. 1,783,424; Dec. 2.
Button loop. J. H. Domkee. 1,783,497; Dec. 2.
Button, Pickpocketproof. A. Leroux. 1,783,846; Dec. 2.
Cabinet. D. Roberts. Des. 82,704; Dec. 2.
Cabinet and clock, Combined radio receiver. H. M. Farrand. Des. 82,665; Dec. 2.
Cabinet, Combined radio and phonograph. G. L. Gilbert. Des. 82,717; Dec. 2.
Cabinet, Merchandise-display. C. C. Irwin. Des. 82,680; Dec. 2.
Calculating machines, Attachment for. A. A. Overbury. 1,783,446; Dec. 2.
Calendar, Perpetual. J. H. Newton. 1,783,302; Dec. 2.
Calender. C. F. Schnuck. 1,783,263; Dec. 2.
Camera, Motion-picture. J. D. Elms. 1,783,463; Dec. 2.
Can: *See*—
Measuring and dispensing can.
Car-coupler mechanism. W. Kelso. 1,783,655; Dec. 2.
Car, Sleeping. C. W. Pflager. 1,783,480; Dec. 2.
Car wheel, Railway-. G. H. Emerson and J. J. Tatum. 1,783,705; Dec. 2.
Carbonizing apparatus. O. H. Hertel. 1,783,190; Dec. 2.
Carburetor. R. H. Beach. 1,783,278; Dec. 2.
Carburetor. G. M. Bicknell. 1,783,214; Dec. 2.
Carburetor. W. F. Broge. 1,783,217; Dec. 2.
Carcasses for buildings. C. Forssell. 1,783,609; Dec. 2.
Card or similar article, Display. S. H. Goldberg. Des. 82,670; Dec. 2.
Carriage, Baby. B. L. Blanchard. 1,783,913; Dec. 2.
Carton, Cushioned. F. Troyk. 1,783,397; Dec. 2.
Carton-feeding magazine. E. Van Der Pyl and R. H. Stimpson. 1,783,912; Dec. 2.
Carton handling and sealing apparatus. A. C. Schroeder and W. D. Kimball. 1,783,814; Dec. 2.
Casing, Humidifier. B. M. Mills. Des. 82,686; Dec. 2.
Caster, Furniture. T. P. Duncan, jr. 1,783,873; Dec. 2.
Casting machine, Matrix-setting and type-line-. J. Dorneth. 1,783,704; Dec. 2.

Catalyst, Highly-active. K. Marx, H. Behncke, and K. Brodersen. 1,783,662; Dec. 2.
Catch, Door. F. F. Forshee. 1,783,563; Dec. 2.
Catch, Lamp. F. L. Bamford. 1,783,598; Dec. 2.
Cellulose esters of both nitric acid and an organic acid, Making. F. Becker. 1,783,771; Dec. 2.
Cellulosic material, Treating. C. Dreyfus and G. Schneider. 1,783,184; Dec. 2.
Cementitious material, Producing, transporting, and handling. O. T. and O. J. Graham. 1,783,332; Dec. 2.
Centrifuge. G. B. Petsche and A. E. Drissner. 1,783,546; Dec. 2.
Chain, Tire. J. L. Doss. 1,783,872; Dec. 2.
Chair: *See*—
Adjustable chair.
Chair. W. S. Ferris and E. C. Harter. Des. 82,666; Dec. 2.
Check protector. J. W. Carlson. 1,783,182; Dec. 2.
Check protector. J. W. Carlson. 1,783,219; Dec. 2.
Chemical-feed machine. E. E. Harper. 1,783,423; Dec. 2.
Chocolate-molding machine. E. E. Cahoon. 1,783,402; Dec. 2.
Chuck. G. E. Garno. 1,783,420; Dec. 2.
Chuck for torsional stresses. F. A. Augenthaler. 1,783,870; Dec. 2.
Circuit breaker for ignition installations of internal-combustion engines. H. Burkas. 1,783,495; Dec. 2.
Circuit interrupter. G. A. Burnham. 1,783,279; Dec. 2.
Clamp: *See*—
Adjustable clamp. Speedometer-drive clamp.
Corner clamp. Suspension clamp.
Pipe clamp.
Clamp for an outlet box, Conduit. H. R. Cook. 1,783,356; Dec. 2.
Clamp for examination devices. C. T. Brady. 1,783,278; Dec. 2.
Clamp for outlet boxes, Universal. H. R. Cook. 1,783,408; Dec. 2.
Clamping and bushing device, Combined conduit. H. R. Cook. 1,783,409; Dec. 2.
Clasp: *See*—
Bracelet clasp.
Clasp for ladies' mesh bracelets, Catch. L. F. Otten. 1,783,306; Dec. 2.
Cleaner: *See*—
Windshield cleaner.
Cleaner. H. B. White. 1,783,205; Dec. 2.
Clip: *See*—
Paper clip. Pen and pencil clip.
Clip or fastener Paper. A. B. Shaw. 1,783,678; Dec. 2.
Closure cap, Two-piece. E. Scofield. 1,783,314; Dec. 2.
Clothes drier. L. G. Young. 1,783,488; Dec. 2.
Clothesline, Metallic. O. E. Law. 1,783,245; Dec. 2.
Clutch control for tractor equipment, Extension-. F. L. Young. 1,783,324; Dec. 2.
Clutch mechanism. A. M. Mears. 1,783,741; Dec. 2.
Coal-handling apparatus. H. H. Israel and G. Trussa. 1,783,619; Dec. 2.
Coating composition. R. H. Kienle and L. V. Adams. 1,783,364; Dec. 2.
Coffee table. H. C. Brown. Des. 82,658; Dec. 2.
Collapsible table. W. J. Bauer. 1,783,556; Dec. 2.
Colloids, Treating. A. M. Herbsman. 1,783,471; Dec. 2.
Color music or other spectacular luminous effects, Apparatus for producing. A. B. Hector. 1,783,789; Dec. 2.
Column. C. B. Schneible. 1,783,813; Dec. 2.
Commutator. H. Welchsel. 1,783,371; Dec. 2.
Compact or similar article. F. B. Miller. Des. 82,718; Dec. 2.
Compensating division sheet. T. E. Brewster. 1,783,777; Dec. 2.
Compensator for brush resistance voltage drop in motor-control systems. H. Sundhaussern. 1,783,527; Dec. 2.
Condenser. E. W. Hartman. 1,783,286; Dec. 2.
Condenser. P. B. Sadtler. 1,783,369; Dec. 2.
Conduit construction. J. F. Makowski. 1,783,178; Dec. 2.
Connecting device, Multiple. G. L. Chamberlain. 1,783,220; Dec. 2.
Connecting rod. A. W. Kjellberg. 1,783,922; Dec. 2.
Connection. Z. P. Candee. 1,783,403; Dec. 2.
Container, Face-powder. M. Sierad. Des. 82,709; Dec. 2.
Container for removing carbon. C. F. Kettering. 1,783,921 Dec. 2.
Control device. M. B. Grout. 1,783,645; Dec. 2.
Control mechanism for electric motors. V. L. Tannehill. 1,783,634; Dec. 2.
Control system, Remote. H. E. Allen. 1,783,820; Dec. 2.
Controller. E. J. Abbe. 1,783,763; Dec. 2.
Cooking apparatus. C. V. Carlsson. 1,783,601; Dec. 2.
Cooler: *See*—
Cream cooler. Liquid cooler.
Cord, Tinsel. J. R. Sexton. 1,783,315; Dec. 2.
Corner clamp. E. L. Wilson. 1,783,456; Dec. 2.
Corrosion of articles of magnesium and magnesium alloys, Improving the resistance to. A. Beck and G. Siebel. 1,783,770; Dec. 2.
Couch, Sliding. P. P. Bebry. 1,783,530; Dec. 2.
Coupling or clamp for scaffolding or other purposes. A. C. Marshall. 1,783,735; Dec. 2.
Cover, Mattress. M. Sherover. Des. 82,707; Dec. 2.
Cover, School desk and seat. S. J. Roberts. 1,783,675; Dec. 2.
Crack filler. J. D. Tomlinson. 1,783,683; Dec. 2.
Crank pin and collar. G. Brown and A. B. Appler. 1,783,825; Dec. 2.
Cream cooler. A. M. Samuelson. 1,783,585; Dec. 2.
Crown block. W. D. Davidson. 1,783,328; Dec. 2.
Crusher: *See*—
Single-roll crusher.
Crystalline dextrose, Making. W. B. Newkirk. 1,783,626; Dec. 2.
Culvert, Sheet-metal. W. E. Babe. 1,783,597; Dec. 2.
Cushion: *See*—
Packing cushion.
Cushion connection for vehicle construction. A. H. Leipert. 1,783,801; Dec. 2.
Cylinders, Cutting cushion for folding. H. A. W. Wood. Re17,892; Dec. 2.
Cylinders, Method of and apparatus for testing. J. J. Crowe. 1,783,412; Dec. 2.
Dampener, Shimmying. C. H. Taylor. 1,783,348; Dec. 2.
Dehydrator having horizontal revolving electrodes. J. T. Worthington. 1,783,595; Dec. 2.
Dental instrument. W. A. Kelsey. 1,783,654; Dec. 2.
Dental instrument. T. K. McKenzie. 1,783,252; Dec. 2.
Desk set. W. F. Benson. 1,783,772; Dec. 2.
Desk stand, Fountain-pen. W. A. Sheaffer and W. R. Cuthbert. 1,783,630; Dec. 2.
Detonator and process of making. C. A. Woodbury. 1,783,372; Dec. 2.
Diaphragm. M. Nystrom. 1,783,926; Dec. 2.
Diaphragms, Making. M. Nystrom. 1,783,386; Dec. 2.
Die: *See*—
Threading die.
Die-chaser-grinding fixture. W. J. Hogg and F. Neumann. 1,783,540; Dec. 2.
Dipper tooth. J. R. Watts 1,783,350; Dec. 2.
Directional signal, Protected. T. Patocka. 1,783,307; Dec. 2.
Dishwashing machine. E. D. Watt and G. W. Conover. 1,783,349; Dec. 2.
Disinfectant compositions, Making. M. Engelmann. 1,783,377; Dec. 2.
Disk wheel, Resilient. S. C. Hatfield. 1,783,469; Dec. 2.
Dispenser charge-regulating device. F. W. Fitch. 1,783,419; Dec. 2.
Dispensing apparatus, Liquid-. F. B. Ellers. 1,783,916; Dec. 2.
Dispensing device. J. S. Daniels. 1,783,414; Dec. 2.
Dispensing machine, Package-. H. E. Nagle. 1,783,479; Dec. 2.
Dispersion and making the same. R. W. Lewis. 1,783,365–6; Dec. 2.
Display device. T. O'Rourke. Des. 82,688; Dec. 2.
Distribution system. E. F. Carter and H. E. Allen. 1,783,904; Dec. 2.
Doll. C. C. Blair. Des. 82,656; Dec. 2.
Door construction, Garage-. W. D. Ferris. 1,783,378; Dec. 2.
Door frame, Refrigerator-. G. W. Frick. 1,783,235; Dec. 2.
Doorlatch. S. J. Habicht. 1,783,785; Dec. 2.
Door-operated signal. C. Tillberg. 1,783,267; Dec. 2.
Door-operating mechanism. H. G. Ainsworth. 1,783,354; Dec. 2.
Doorstop. J. W. Barnett. Des. 82,654; Dec. 2.
Doorstop or the like. L. J. Laroche. Des. 82,682; Dec. 2.
Draft stabilizer. E. A. and E. A. Field, jr. 1,783,418; Dec. 2.
Drain pipes, Apparatus for cleaning out. J. C. Miller. 1,783,256; Dec. 2.
Draw works for use with hild drives. W. D. Davidson. 1,783,914; Dec. 2.
Drier: *See*—
Clothes drier.
Drill bit. J. P. Miller. 1,783,580; Dec. 2.
Drink mixer and juice extractor, Combined. C. Ringwald. Des. 82,703; Dec. 2.
Drum, Snare. R. H. Hiers and H. A. 1,783,843; Dec. 2.
Dust-bag ring. H. E. Hoover. 1,783,240; Dec. 2.
Dyeing. A. Bodmer. Re17,894; Dec. 2.
Dyestuff, Anthraquinone-thioxanthone vat. A. Lüttringhaus and F. Kacer. 1,783,659; Dec. 2.
Dyestuff, Isatin carbazole compound vat. M. P. Schmidt, and O. Limpach. 1,783,588; Dec. 2.
Dyestuff of the benzothionaphthene series, Vat. K. Thiess and E. Fischer. 1,783,592; Dec. 2.
Electric bulb or similar article. G. Niebel. Des. 82,687; Dec. 2.
Electric energy, System for the generation and distribution of. C. L. Hommel. 1,783,935; Dec. 2.
Electric selector mechanism. H. L. Krum. 1,783,382; Dec. 2.
Electric snap switch. W. C. Tregoning. 1,783,635–6; Dec. 2.
Electric switch. R. H. Baker and C. W. Parsons. 1,783,690; Dec. 2.
Electric switch. I. W. Burgess. 1,783,903; Dec. 2.
Electric switch. B. E. Getchell. 1,783,421; Dec. 2.
Electric switch. A. Krastin. 1,783,656; Dec. 2.
Electric switch. G. J. Meuer. 1,783,298; Dec. 2.
Electric switch. G. J. Meuer. 1,783,665; Dec. 2.
Electric system. T. C. Lenox. 1,783,804; Dec. 2.
Electrical apparatus. F. Firestone. 1,783,284; Dec. 2.
Electrical indicating instrument. W. C. McCoy. 1,783,851; Dec. 2.
Electrical pick-up. W. D. Smith. 1,783,265; Dec. 2.
Electrical resistor. J. F. Tritle. 1,783,863; Dec. 2.

Electrical switch. J. C. Rea. 1,783,389; Dec. 2.
Electromagnetic brake. F. O. Clizbe. 1,783,280; Dec. 2.
Elevator-control system, Push-button. E. W. Seeger. 1,783,629; Dec. 2.
Engine: *See*—
Internal-combustion engine. Sleeve-valve engine.
Engine-cooling cowl. O. H. Spencer. 1,783,318; Dec. 2.
Engines, Attachment for internal-combustion. L. H. Mort. 1,783,746; Dec. 2.
Engines, Throttle-controlling means for internal-combustion. W. B. Jupp. 1,783,431; Dec. 2.
Escutcheon plate. F. Weindel, jr. Des. 82,713; Dec. 2.
Etching machine. R. R. Robertson. 1,783,390; Dec. 2.
Excavating, elevating, and loading machine. H. K. Clemons. 1,783,462; Dec. 2.
Excavating machine. C. C. Hansen. 1,783,787; Dec. 2.
Excavating machine. C. B. King, B. Jacoby, and D. J. Shelton. 1,783,293; Dec. 2.
Exercising machine. C. L. Duff. 1,783,376; Dec. 2.
Extractor: *See*—
Juice extractor.
Fabric: *See*—
Wire fabric.
Fabrics, Printing. C. Dreyfus. 1,783,606; Dec. 2.
Fabrics, Treatment of. G. H. Ellis, H. C. Olpin, and E. E. Walker. 1,783,608; Dec. 2.
Fan, Electric. N. P. Karabatsos. 1,783,652; Dec. 2.
Farm gate. T. J. Knight. 1,783,508; Dec. 2.
Fastener. G. Sundback. Re17,891; Dec. 2.
Fastener, Pronger. D. I. Reiter. 1,783,748; Dec. 2.
Fastening device, Flexible. N. Statham. 1,783,550; Dec. 2.
Fastening mechanism. L. McNamara. 1,783,253; Dec. 2.
Feed tank. N. R. Thibert. 1,783,891; Dec. 2.
Feeder, Poultry. E. S. Hoyt. 1,783,790; Dec. 2.
Films, Restoring shrunken. J. G. E. Wright. 1,783,895; Dec. 2.
Filter, Automatic resistance-controlled air and gas. H. E. Birkholz. 1,783,181; Dec. 2.
Filter for cleaning fluids. P. W. Morgan. 1,783,444; Dec. 2.
Filtering apparatus. E. W. W. Keene. 1,783,937; Dec. 2.
Filtration system. J. Pugliese. 1,783,341; Dec. 2.
Finger ring. J. H. Schaeffer. Des. 82,705; Dec. 2.
Firearms, Device for feeding cartridges and for cocking the striker in automatic. G. Mascarucci. 1,783,577; Dec. 2.
Firearms, Shock-absorbing structure for. G. R. Ledford. 1,783,246; Dec. 2.
Fishing reel. H. S. Broadwell and S. T. Thorpe. 1,783,494; Dec. 2.
Float-operated switch. A. Penn. 1,783,448; Dec. 2.
Floor strip, Compound. P. Galassi. 1,783,782; Dec. 2.
Flying machines, Starting of large. C. Dornier. 1,783,227; Dec. 2.
Frame: *See*—
Door frame. Supporting frame.
Heddle frame. Window frame.
Spinning frame.
Frame for musical instruments. W. L. Lange. 1,783,243; Dec. 2.
Freight and apparatus therefor, System for handling. A. R. Grob. 1,783,363; Dec. 2.
Fruit-grading table. J. A. Byington. 1,783,700; Dec. 2.
Frying machine, Automatic deep-. A. and E. Bothe. 1,783,696; Dec. 2.
Fuel briquette. P. E. Welton and G. H. Wadsworth. 1,783,759; Dec. 2.
Fuel burner, Furnace-door-carried. G. F. Beckham and C. D. Morgan. 1,783,490; Dec. 2.
Fuel-burning device for domestic purposes, Liquid-. P. A. Celander. 1,783,405; Dec. 2.
Fuel-feeding device. C. S. Burton. 1,783,374; Dec. 2.
Fuel for internal-combustion engines, Carburation of hydrocarbon. G. Hamilton-Grapes. 1,783,612; Dec. 2.
Fuels, Dehydration of moist. H. A. von Staden and A. Hoehn. 1,783,757; Dec. 2.
Furnace: *See*—
Blast furnace.
Furnace attachment. M. Owen. 1,783,809; Dec. 2.
Furnace cooling by steam. H. F. Easter. 1,783,284; Dec. 2.
Fuse, Electric. W. J. John and H. Wright, jr. 1,783,242; Dec. 2.
Game apparatus. C. R. Mann. 1,783,338; Dec. 2.
Game apparatus. V. D. Salter. 1,783,370; Dec. 2.
Game, Shooting. L. Oberndorfer. 1,783,303; Dec. 2.
Garment. M. P. Johnson. 1,783,572; Dec. 2.
Garment. T. E. Shaw. 1,783,485; Dec. 2.
Garment hanger. S. A. Goldberg. 1,783,709; Dec. 2.
Gas burner, Dental. P. M. Forster. Des. 82,669; Dec. 2.
Gas generating and burning apparatus. E. A. Garrett. 1,783,564; Dec. 2.
Gases, Separating acidic. R. R. Bottoms. 1,783,901; Dec. 2.
Gasket-cutting machine. J. L. Allen. 1,783,869; Dec. 2.
Gate: *See*—
Automobile gate. Farm gate.
Gate operating and locking mechanism. J. J. Shields. 1,783,753; Dec. 2.
Gauge. R. W. Reed. 1,783,260; Dec. 2.
Gauging mechanism. Z. P. Candee. 1,783,404; Dec. 2.
Gear drive for cinematographic projectors. E. E. Oliver. 1,783,340; Dec. 2.
Gear mechanism for motor vehicles, Driving-. A. J. Evans. 1,783,780; Dec. 2.
Gear, Variable-speed and reversing epicyclic. N. Griboiedoff. 1,783,877; Dec. 2.
Gearing for textile printing machines. H. A. Smith, G. H. Thomson, and S. B. Stafford. 1,783,889; Dec. 2.
Generator: *See*—
Voltage generator.
Glass-cleaning device. T. C. Homiller. 1,783,506; Dec. 2.
Glassware-annealing leer. P. Q. Williams. 1,783,208; Dec. 2.
Glassware, Apparatus for handling. J. E. Schroder. 1,783,939; Dec. 2.
Glassware-forming machines. L. D. Soubier. 1,783,201; Dec. 2.
Glass withdrawn from a tank, Process and apparatus for regulating the temperature of. H. F. Hitner. 1,783,473; Dec. 2.
Globe for inclosed lighting units. P. Parlato. Des. 82,690; Dec. 2.
Golf tee. W. E. Baldwin. 1,783,211; Dec. 2.
Golf tee. G. Manassero. 1,783,733; Dec. 2.
Grade crossing, Railway-. R. T. Bell. 1,783,274; Dec. 2.
Grading machine, Potato-. J. D. Cox. 1,783,496; Dec. 2.
Grain saver. V. J. Bockwitz. 1,783,400; Dec. 2.
Grain-shocking mechanism. G. Innes. 1,783,241; Dec. 2.
Granite, Producing an ornamental surface on. E. A. Chase. 1,783,828; Dec. 2.
Grate construction. C. E. Harrison. 1,783,878; Dec. 2.
Grinding machine. C. G. Trefethen and A. G. Belden. 1,783,755; Dec. 2.
Grinding wheel. T. Larsson. 1,783,728; Dec. 2.
Grinding wheel, Segmental. T. Larsson. 1,783,727; Dec. 2.
Hair for dolls' heads, Artificial. V. Keney. 1,783,721; Dec. 2.
Hair-treating machine. P. E. Gaire. 1,783,610; Dec. 2.
Hairs from the skin of fells, Method and device for removing the. M. Bloch. 1,783,693; Dec. 2.
Hand-bundling device. W. H. Gosch and A. Kohout. 1,783,236; Dec. 2.
Handle escutcheon for automobile hardware or the like. J. S. Gullborg. Des. 82,676; Dec. 2.
Handle for automobile window lifter or the like. J. S. Gullborg. Des. 82,674–5; Dec. 2.
Handle for door of automobile or the like. J. S. Gullborg. Des. 82,673; Dec. 2.
Handle for tools. J. T. Scully. 1,783,346; Dec. 2.
Hanger: *See*—
Garment hanger. Laundry hanger.
Hat. C. Solomon. 1,783,549; Dec. 2.
Hat. E. Wittcoff. 1,783,760; Dec. 2.
Heat exchange, Effecting. W. D. La Mont and A. F. Ernst. 1,783,724; Dec. 2.
Heat-exchanging apparatus, Portable. J. B. D. L. Chardard. 1,783,355; Dec. 2.
Heat-transfer apparatus. J. N. Jacobsen. 1,783,844; Dec. 2.
Heater: *See*—
Motor heater.
Heater and vaporizer, Auxiliary. E. R. Godward. 1,783,536; Dec. 2.
Heater control. G. D. Barker. 1,783,821; Dec. 2.
Heating apparatus. W. L. Majors. 1,783,576; Dec. 2.
Heating apparatus. W. H. Sommer. 1,783,945; Dec. 2.
Heating device, Electric. C. B. Backer. 1,783,554; Dec. 2.
Heating rolls. W. Schötteldreier. 1,783,524; Dec. 2.
Heating systems, Pressure-control mechanism for vacuum. I. C. Jennings. 1,783,428; Dec. 2.
Heddle frame. J. J. Kaufmann. 1,783,794; Dec. 2.
Heel, Rubber-cushioned. H. G. Norwood. Re17,890; Dec. 2.
Heel-seat-fitting machine. W. R. Barclay and F. Ricks. 1,783,212; Dec. 2.
Heel structure for shoes. E. Miller. 1,783,514; Dec. 2.
High-frequency oscillations, Indicating means for. A. Meissner. 1,783,297; Dec. 2.
High-voltage apparatus. E. H. Freiburghouse. 1,783,837; Dec. 2.
Hinge. T. Johnson and P. G. Johnson. 1,783,475; Dec. 2.
Hinge last. H. W. Lucas. 1,783,658; Dec. 2.
Hinge last. G. C. Thomas. 1,783,682; Dec. 2.
Hinged rack. G. Garcia. 1,783,708; Dec. 2.
Holder, Bag. L. M. Roehl. 1,783,749; Dec. 2.
Holder, Flowerpot. J. Damelio. Des. 82,660; Dec. 2.
Holder, Match-book. H. H. Schubnell. 1,783,751; Dec. 2.
Holder, Necktie. L. E. Goeller. 1,783,840; Dec. 2.
Holder, Tool. W. J. Hogg and F. Neumann. 1,783,541; Dec. 2.
Holder with pad, Steel-wool. R. F. Boehler, jr. 1,783,775; Dec. 2.
Holder, Work. R. M. Woytych. 1,783,596; Dec. 2.
Holding device for flash lights, Safety. H. R. Dryden. 1,783,874; Dec. 2.
Hospital appliance. L. A. Chambers. 1,783,640; Dec. 2.
Housing, Adjustable. E. J. Kearney. 1,783,653; Dec. 2.
Hydrocarbons, Apparatus for producing lower-boiling-point. C. P. Dubbs. 1,783,185; Dec. 2.
Hydrocarbons, Process and apparatus for converting. J. C. Morrell and H. P. Benner. 1,783,257; Dec. 2.
Hydroxyaldehydes, Manufacture of aromatic. G. Reddelien, H. Lange, and H. Pfannenstiel. 1,783,584; Dec. 2.
Ice-cream cone. J. L. Balton. Des. 82,650; Dec. 2.
Ice-making system and method of obtaining dry air. J. A. Martocello. 1,783,807; Dec. 2.

Illuminating device, Electrical decorative. J. Block. 1,783,277; Dec. 2.
Illuminating device for instrument panels. D. E. Keeney. 1,783,920; Dec. 2.
Illuminating device, Ornamental. A. Sadacca. 1,783,750; Dec. 2.
Inclosed switch. H. E. Leppert. 1,783,731; Dec. 2.
Indicator: *See*—
Music-time indicator. Visible flow indicator.
Pen-refill indicator.
Insect trap. A. C. Sladky. 1,783,631; Dec. 2.
Insert. P. C. Schorr and L. H. Syring. 1,783,391; Dec. 2.
Installation, High-potential. A. O. Austin. 1,783,271; Dec. 2.
Instrument inclosed in nonmetallic housings. L. O. Grondahl and L. F. Howard. 1,783,784; Dec. 2.
Instrument panel. L. S. Sheldrick. Des. 82,710; Dec. 2.
Instrument panel for switchboards. P. MacGahan. Des. 82,684; Dec. 2.
Insulated union and pipe strap, Shock-. R. F. Cowell. 1,783,410; Dec. 2.
Insulation block for electric terminals. E. A. Everett. Des. 82,664; Dec. 2.
Internal combustion engine. H. Ellerbusch. 1,783,499; Dec. 2.
Internal-combustion engine. H. L. Horning. 1,783,714–5; Dec. 2.
Internal-combustion engine. F. Lang. 1,783,803; Dec. 2.
Iron carbonyl, Manufacture of. A. Mittasch and C. Müller. 1,783,744; Dec. 2.
Iron compounds and the resulting product, Producing organic. H. Blumenberg, jr., and J. H. Blumenberg. 1,783,694; Dec. 2.
Jack: *See*—
Automobile jack.
Jack and clamp, Loading. F. H. Knapp. 1,783,294; Dec. 2.
Joint: *See*—
Strapping joint.
Juice extractor. C. Meyer. Re17,893; Dec. 2.
Kiln, Spall burning. M. E. Squire. 1,783,632; Dec. 2.
Knitting machine. J. L. Sutphen. 1,783,202; Dec. 2.
Lace, Valenciennes. A. L. Selwerts. 1,783,858; Dec. 2.
Ladder, Folding. S. F. Williams. 1,783,686; Dec. 2.
Lamp. A. L. Arenberg. Des. 82,648–9; Dec. 2.
Lamp. C. A. B. Halvorson. 1,783,468; Dec. 2.
Lamp, Portable electric. H. M. Peters. Des. 82,693; Dec. 2.
Lamp, Ultra-violet. M. W. Garrett. 1,783,643; Dec. 2.
Lap link. R. L. Stockard. 1,783,860; Dec. 2.
Last, Hinged. G. C. Thomas. 1,783,862; Dec. 2.
Lasts, Process of and apparatus for molding hollow. W. J. De Witt. 1,783,915; Dec. 2.
Latch and seal, Switch-box. C. E. Hanny. 1,783,711; Dec. 2.
Latch, Washing-machine-cover. A. Partlow. 1,783,447; Dec. 2.
Lathe, Vertical turret. O. G. Tweddell. 1,783,637; Dec. 2.
Lattice work and supporting the same. W. G. Purdy and J. P. Speck. 1,783,196; Dec. 2.
Laundry hanger. J. Mandy. 1,783,578; Dec. 2.
Laundry machine. G. W. Dunham. 1,783,186; Dec. 2.
Lavatory, Portable. J. G. Hernandez. 1,783,712; Dec. 2.
Leggiugs, Punctureproof. P. W. Ellis. 1,783,832; Dec. 2.
Lens system, Condensing-. W. B. Rayton. 1,783,481; Dec. 2.
Letter-of-credit form. G. Opitz. 1,783,258; Dec. 2.
Lever mechanism. R. E. Manley. 1,783,250; Dec. 2.
License-tag mounting and signal and tail light, Combined. E. L. Shelton. 1,783,316; Dec. 2.
Lifter: *See*—
Valve-spring lifter.
Lifting device. G. B. Randolph. 1,783,856; Dec. 2.
Lifting device for motor vehicles. A. P. Davidson. 1,783,224; Dec. 2.
Light-control system. D. J. Stewart. 1,783,633; Dec. 2.
Lighting fixture. L. Schepmoes. 1,783,311; Dec. 2.
Lighting-fixture bracket or article of similar nature. W. von Nessen. Des. 82,712; Dec. 2.
Lighting unit. L. C. Packer. 1,783,519; Dec. 2.
Lighting unit, Sewing-machine. L. C. Packer. 1,783,544; Dec. 2.
Lining for automobile hoods. R. J. Stephenson. 1,783,816; Dec. 2.
Liquid cooler. A. Conley. 1,783,641; Dec. 2.
Liquid-dispensing apparatus. H. A. Jacob. 1,783,379; Dec. 2.
Liquid-measuring apparatus. A. Lanser. 1,783,510; Dec. 2.
Liquid-overflow-control means. W. C. MacMillen. 1,783,249; Dec. 2.
Liquids, Apparatus for measuring the flow of. W. G. Kent and E. W. Hovenden. 1,783,880; Dec. 2.
Loading device for concrete mixtures. J. E. Bushnell. 1,783,532; Dec. 2.
Lock: *See*—
Burglarproof lock. Safety lock.
Rail-nut lock.
Lock-replacing unit. E. Ohnstrand. 1,783,581; Dec. 2.
Locking device for lapping machines. M. A. Hoyt. 1,783,618; Dec. 2.
Locking mechanism for containers, Head-. W. E. Wood and W. H. Bacheldor. 1,783,687; Dec. 2.
Locomotive structure. J. L. Mohun. 1,783,300; Dec. 2.
Loom harness. J. J. Kaufmann. 1,783,793; Dec. 2.
Looms, Feeler mechanism for. P. F. O'Brien. 1,783,518; Dec. 2.
Looms, Let-off mechanism for. C. H. Draper. 1,783,779; Dec. 2.
Looms, Let-off mechanism for. R. A. Kearsley. 1,783,719; Dec. 2.
Looms, Shuttle-feeler mechanism for. E. E. Bass. 1,783,768; Dec. 2.
Lubricating device. R. Ehrenfeld. 1,783,535; Dec. 2.
Machine for assembling nuts. R. L. Burdsall. 1,783,218; Dec. 2.
Machine for cleaning journal-box waste. I. M. Conway and T. M. Lawson. 1,783,407; Dec. 2.
Machine for forming glass articles. R. La France. 1,783,191; Dec. 2.
Machine for making welded reenforcing fabrics. W. H. Sommer. 1,783,944; Dec. 2.
Machine for opening tins of canned goods. E. Darqué. 1,783,534; Dec. 2.
Machine for processing materials. C. W. Vogt. 1,783,865; Dec. 2.
Machine for processing materials. C. W. Vogt. 1,783,867; Dec. 2.
Machinery, Automatic feed control for cotton-opening. E. M. Holt. 1,783,333; Dec. 2.
Magazine for printers' type. G. M. Porter. 1,783,811; Dec. 2.
Magnetic core. E. Eisenmann and F. Bergmann. 1,783,560; Dec. 2.
Magnetic cores, Production of improved. K. Eisenmann and F. Bergmann. 1,783,561; Dec. 2.
Manicuring, Apparatus for facilitating the manipulation of. E. C. Sachse. 1,783,262; Dec. 2.
Manipulator. J. A. Smitmans. 1,783,815; Dec. 2.
Marking and stenciling machine, Traffic-line. C. V. Angier. 1,783,689; Dec. 2.
Massaging oscillator. D. Heyer. Des. 82,677; Dec. 2.
Masses from cellulose esters, Manufacture of soft and pliable. O. Loehr. 1,783,176; Dec. 2.
Material for conversion into cellulose derivatives and producing the same. M. O. Schur and R. H. Rasch. 1,783,313; Dec. 2.
Material-handling device. C. J. Klein. 1,783,797; Dec. 2.
Material-transfer apparatus. H. H. Weiss. 1,783,487; Dec. 2.
Materials, Apparatus and process for treating. C. W. Vogt. 1,783,864; Dec. 2.
Materials made of or containing cellulose derivatives, Coloration of. H. Dreyfus. 1,783,607; Dec. 2.
Materials, Process and apparatus for treating. C. W. Vogt. 1,783,866; Dec. 2.
Matrices, Punching. H. R. Freund. 1,783,838; Dec. 2.
Matrix magazine. S. E. Sperry. 1,783,929; Dec. 2.
Measuring and dispensing can, Liquid. R. G. and R. M. Wilson. 1,783,457; Dec. 2.
Measuring instrument, Electrical. J. H. Cone. 1,783,559; Dec. 2.
Mechanical movement. J. B. Kirby. 1,783,380; Dec. 2.
Mechanical separator. W. M. Cook. 1,783,357; Dec. 2.
Merry-go-round. R. dos Santos. 1,783,586; Dec. 2.
Metal articles, Coating. J. S. George and R. S. Sperry. 1,783,188; Dec. 2.
Metal on metal tubes, Apparatus for electrolytically depositing. F. G. Martin and W. Ramsay. 1,783,885; Dec. 2.
Metal-working machines, Spindle-stopping mechanism for. C. Q. Garey. 1,783,566; Dec. 2.
Metallic apparatus for carrying out chemical and other processes. F. Lappe, E. Koch, M. Pier, and H. Sauer. 1,783,726; Dec. 2.
Metals, Etching precious. J. C. McFarland. 1,783,663; Dec. 2.
Meter: *See*—
Water meter.
Meter for sewing machines. B. G. Forbstein. 1,783,562; Dec. 2.
Meter housing. A. R. Rutter. 1,783,547; Dec. 2.
Mineral adsorbent and manufacturing same. J. T. Travers, C. H. Lewis, and O. M. Urbain. 1,783,396; Dec. 2.
Mining and loading machine. E. C. Morgan. 1,783,443; Dec. 2.
Mixer. K. Adams. 1,783,553; Dec. 2.
Moistener for gummed strips and the like. R. R. Shay. 1,783,679; Dec. 2.
Mold. W. G. Goodwin. 1,783,285; Dec. 2.
Mold for forming cones for ice cream and frozen custard. E. D. Kohr. 1,783,798–9; Dec. 2.
Molding apparatus. F. J. Leuthner. 1,783,805; Dec. 2.
Molding, Drip and trim. J. B. Zimmers. 1,783,896; Dec. 2.
Molding for closure members, Movable. C. G. Johnson. 1,783,919; Dec. 2.
Mop head. D. Kenner. 1,783,795; Dec. 2.
Motion and vice versa, Converting rotary into reciprocating. A. F. Shepard. 1,783,589; Dec. 2.
Motor: *See*—
Air motor.
Motor heater. G. W. Hopkins. 1,783,289; Dec. 2.
Motors, Antiexplosive means with great turbulence for explosion. A. A. A. Darche. 1,783,603; Dec. 2.
Mowing machine. S. E. Rawls. 1,783,672; Dec. 2.

Mowing machine, Railroad. C. Morris and W. H. Buck. 1,783,517; Dec. 2.
Muffler for burner. E. E. Wayless. 1,783,685; Dec. 2.
Music-instruction device. G. H. D. Gibson. 1,783,361; Dec. 2.
Music time indicator. M. J. Goudsmit. 1,783,537; Dec. 2.
Musical instrument. J. N. Vasey. 1,783,638; Dec. 2.
Needle, Thread-extracting. S. Picard. 1,783,449; Dec. 2.
Nitrates, Manufacture of metallic. F. A. Henglein. 1,783,647; Dec. 2.
Nonslip device for use with skis. A. Elsner. 1,783,833; Dec. 2.
Nozzle, Syringe. G. Kaufman. Des. 82,681; Dec. 2.
Odometers, Reset mechanism for. J. Zubaty. 1,783,398; Dec. 2.
Oil, Cracking petroleum. R. T. Pollock. 1,783,259; Dec. 2.
Oil-filter member. C. W. McKinley. 1,783,924; Dec. 2.
Oil, Method and apparatus for cracking. W. Brink and G. L. Hess. 1,783,697; Dec. 2.
Oil to furnaces, Apparatus for supplying fuel. A. C. Bennett. 1,783,213; Dec. 2.
Oiler, Air-line. J. E. Renfer. 1,783,522; Dec. 2.
Oils, Process and apparatus for treating. C. P. Dubbs. 1,783,229; Dec. 2.
Oils, Storage of. T. S. Cooke and J. E. Rouse. 1,783,701; Dec. 2.
Opacifier for enamels. T. H. McKeown. 1,783,738–40; Dec. 2.
Ophthalmic mounting, Guard for an. N. M. Baker. Des. 82,651; Dec. 2.
Optical instrument. W. J. Cameron. 1,783,461; Dec. 2.
Ores by use of gas, Apparatus for leaching and washing. A. B. Stevens. 1,783,591; Dec. 2.
Ores, Concentration of. G. H. Wigton. 1,783,206–7; Dec. 2.
Organ, Mouth. J. Hohner. 1,783,173; Dec. 2.
Ornament, Shoe. S. M. Riker. Des. 82,698; Dec. 2.
Ornamental device. E. I. Dauer. 1,783,223; Dec. 2.
Oven, Combination toasting and shredding. J. L. Kellogg. 1,783,434; Dec. 2.
Overalls. J. Herskowitz. 1,783,538; Dec. 2.
Package, Combination. M. Reisert. 1,783,453; Dec. 2.
Packing cushion. H. L. Hill. 1,783,570; Dec. 2.
Packing for plungers. D. R. Yarnall and J. Kildare. 1,783,762; Dec. 2.
Paint, Roof. M. M. Connolly. 1,783,702; Dec. 2.
Pan for internal-combustion engines, Oil-base insulating. K. H. Hinrichs. 1,783,472; Dec. 2.
Pane, Window. A. Böttner. 1,783,326; Dec. 2.
Paper clip. M. Ross. 1,783,484; Dec. 2.
Paper manufacture. M. Wenzel. 1,783,868; Dec. 2.
Paper, Recording. C. W. Mayer and E. F. Siller. 1,783,442; Dec. 2.
Parachute cord retainer. A. H. Reed. 1,783,452; Dec. 2.
Pen or like material splitting mechanism. J. Zeb. 1,783,489; Dec. 2.
Pedestal for a goblet or similar article. C. C. Beam. Des. 82,655; Dec. 2.
Pen and pencil clip. C. E. Marshall. 1,783,736; Dec. 2.
Pen attachment, Fountain-. C. E. Marshall. 1,783,734; Dec. 2.
Pen, Fountain. E. Kratochvil. 1,783,436; Dec. 2.
Pen refill indicator, Fountain-. O. R. Terry. 1,783,681; Dec. 2.
Penmanship, Device for teaching. R. A. Kuntzleman. 1,783,657; Dec. 2.
Petroleum hydrocarbons with alcohol, Process of and apparatus for the fractional extraction of. T. A. Werkenthin. 1,783,203; Dec. 2.
Petroleum oil, Converting. G. Egloff and J. C. Morrell. 1,783,231; Dec. 2.
Petroleum oil, Cracking. C. P. Dubbs. 1,783,228; Dec. 2.
Phonograph. H. J. King. 1,783,723; Dec. 2.
Phonographic recording. H. S. Worrell. 1,783,761; Dec. 2.
Photography, Art of and apparatus for motion-picture. A. Ames, jr. 1,783,399; Dec. 2.
Pianos, Mechanism for player. W. B. Tunstall. 1,783,319; Dec. 2.
Pictures, Electrical transmission of. A. Weaver. 1,783,321; Dec. 2.
Pilot for furnaces. O. H. Rodenberg. 1,783,676; Dec. 2.
Pin for holding golf tees. R. Marcher. Des. 82,685; Dec. 2.
Pinholder. G. Boden. 1,783,215; Dec. 2.
Pin-staking machine, Base. J. E. Ferguson. 1,783,706; Dec. 2.
Pipe. E. Della. 1,783,605; Dec. 2.
Pipe clamp. W. E. Lahey. 1,783,509; Dec. 2.
Pipe end protector. H. A. Unke. 1,783,893; Dec. 2.
Pipe-tapping and plug-setting machine, Combined. F. B. Hall. 1,783,503; Dec. 2.
Piston. S. J. Mansfield. 1,783,477; Dec. 2.
Piston-ring casting. T. E. McFall. 1,783,886; Dec. 2.
Plaster, Imitation. R. S. Schmieder. 1,783,454; Dec. 2.
Plate or similar article. J. Wuyts. Des. 82,714; Dec. 2.
Plug for electric circuits, Locking. F. E. Reinhold. 1,783,342; Dec. 2.
Plumbing device. L. K. Larrison. 1,783,883; Dec. 2.
Pop-up waste. F. G. Brotz. 1,783,460; Dec. 2.
Pot-filling apparatus, Glass-. W. E. Barnes. 1,783,459; Dec. 2.
Poultry killer. G. C. Butcher. 1,783,699; Dec. 2.
Power device, Hydraulic. W. R. Morris. 1,783,887; Dec. 2.
Power system and apparatus therefor. M. L. Sindeband, and O. K. Marti. 1,783,548; Dec. 2.
Power transmission. S. C. Carter. 1,783,533; Dec. 2.
Power-transmission device. C. W. Weiss. 1,783,758; Dec. 2.
Press: *See*—
Printing press. Transfer press.
Printing multimachine, Rotary intaglio-. O. Wilhelm. 1,783,819; Dec. 2.
Printing press. R. Jacobucci. 1,783,942; Dec. 2.
Printing press, Rotary web-. H. M. Barber. 1,783,766–7; Dec. 2.
Program device for player musical instruments and program strip therefor. W. J. Butler. 1,783,375; Dec. 2.
Propeller. T. A. Dicks. 1,783,225; Dec. 2.
Protector. M. C. Mather. 1,783,512; Dec. 2.
Protector for automobiles. E. A. Banschbach. 1,783,984; Dec. 2.
Pulverizer. G. H. Kaemmerling. 1,783,717; Dec. 2.
Pump. H. C. Gohring. 1,783,611; Dec. 2.
Pump. R. W. Gunn, and W. A. S. Thompson. 1,783,615; Dec. 2.
Pump. R. A. L. Volet. 1,783,486; Dec. 2.
Pump, Centrifugal. A. V. Mueller. 1,783,667; Dec. 2.
Pump, Double-acting. J. S. Hunter. 1,783,425; Dec. 2.
Pump, Fuel. J. T. Trumble. 1,783,940; Dec. 2.
Pump, Spur-gear. I. H. Wilsey. 1,783,209; Dec. 2.
Pumping system, Displacement. J. Oliphant. 1,783,747; Dec. 2.
Pumps, Sealing device for centrifugal. I. C. Jennings. 1,783,427; Dec. 2.
Rack: *See*—
Hinged rack.
Radiator. E. O. Schjolin. 1,783,928; Dec. 2.
Radiocabinet M. Pasternak. Des. 82,692; Dec. 2.
Radiocabinet. F. W. Stein. Des. 82,711; Dec. 2.
Radiocabinet or similar article. H. C. Edwards. Des. 82,662; Dec. 2.
Radio cabinet or similar article. H. L. Finnegan and P. O. Lanham. Des. 82,667; Dec. 2.
Radio receiving apparatus. F. C. Barton. 1,783,899; Dec. 2.
Radio receiving apparatus. A. A. Kent. 1,783,292; Dec. 2.
Rail nut lock. J. O. Gould. 1,783,876; Dec. 2.
Rail-tie plate and fastener. G. C. Habicht. 1,783,841; Dec. 2.
Rails, Anticreeper for railway. J. Richards and N. Cortese. 1,783,482; Dec. 2.
Rails, Means to felicitate the electrical bonding of railway. G. F. Grundon and F. E. Knight. 1,783,238; Dec. 2.
Receptacle, Water-tight. A. von Frankenberg. 1,783,756; Dec. 2.
Records, Making phonograph. F. L. Dyer. 1,783,498; Dec. 2.
Reed for musical instruments. F. A. Brenner. 1,783,824; Dec. 2.
Reel: *See*—
Fishing reel.
Reel. H. H. Bensema. 1,783,692; Dec. 2.
Refrigerating machine. R. F. Follain. 1,783,464; Dec. 2.
Refrigerator. J. G. Scott. Des. 82,706; Dec. 2.
Relay, Alternating-current S. L. Goldsborough. 1,783,568; Dec. 2.
Relay, Protective. H. E. White. 1,783,552; Dec. 2.
Ribbon burner. G. W. McKee. 1,783,195; Dec. 2.
Ring: *See*—
Dust-bag ring.
Ring or article of similar nature, Finger. E. J. Gross. Des. 82,671–2; Dec. 2.
Roadbed construction for toy railways. C. R. Peterson, jr. 1,783,367; Dec. 2.
Roaster and storer, Continuous coffee. A. K. Rehe. 1,783,673; Dec. 2.
Rod: *See*—
Connecting rod. Surveyor's rod.
Roll, Fluid-cooled. J. H. Fox. 1,783,465; Dec. 2.
Roof covering. H. Gauvin. 1,783,839; Dec. 2.
Roofing units, Apparatus for coating. C. R. MacDonald. 1,783,575; Dec. 2.
Roofing units, Apparatus for finishing. C. R. MacDonald. 1,783,850; Dec. 2.
Roofing units, Finishing. C. R. MacDonald. 1,783,849; Dec. 2.
Rosin, Cracking. G. Egloff and H. P. Benner. 1,783,230; Dec. 2.
Rotor for magnetos. C. F. Reis. 1,783,344; Dec. 2.
Rubber goods from rubber dispersions, Manufacture of. P. Klein and A. Szegvari. 1,783,435; Dec. 2.
Rubber, Producing vulcanized. M. Bögemann and H. Friedrich. 1,783,216; Dec. 2.
Rudder-angle-indicating device. G. M. and A. P. Marr. 1,783,251; Dec. 2.
Saccharine fluids, Treating. L. Wickenden. 1,783,551; Dec. 2.
Safety attachment for punch presses. B. J. Victor. 1,783,817; Dec. 2.
Safety lock. T. Kromer. 1,783,923; Dec. 2.
Sanding device, Vehicle. W. H. H. Everett. 1,783,834; Dec. 2.
Sash balance. R. Lanzillotta. 1,783,573; Dec. 2.
Saw guide. W. W. Edwards. 1,783,330; Dec. 2.
Scale casing, Weighing-. L. D. Chambers. Des. 82,659; Dec. 2.
Scale from water jackets of internal-combustion engines, Removing. W. N. Moore. 1,783,478; Dec. 2.
Scales, Rack-rod assembly for. R. J. Burke. 1,783,826; Dec. 2.

Scissors G. Miriello. 1,783,853; Dec. 2.
Scissors. Detachable-loaded. F. L. Ralston. 1,783,583; Dec. 2.
Scoop, Excavator. R. R. Downie. 1,783,831; Dec. 2.
Screen: *See*—
Vibratory screen. Window screen.
Screw machines, Cross-tool slide for multiple-spindle automatic. O. E. Trobeck. 1,783,528; Dec. 2.
Scuttle port and like tight-closed window. L. Lalanne. 1,783,336; Dec. 2.
Seal. F. Keidel. 1,783,938; Dec. 2.
Sealing-in machine, Bulb feeder for. W. W. Loebe, Ledig, and H. Asmussen. 1,783,806; Dec. 2.
Seed, Dressing. H. Rössner, A. Steindorff, and K. Pfaff. 1,783,200; Dec. 2.
Separator: *See*—
Mechanical separator.
Sewing machine. F. E. Finlayson. 1,783,836; Dec. 2.
Shackle connection between spring and frame. A. L. Riker, jr. 1,783,199; Dec. 2.
Shackle, Steel-plate spring. S. A. Stranahan. 1,783,394; Dec. 2.
Shaft construction, Mine-. R. V. Proctor. 1,783,812; Dec. 2.
Shafting for engines. P. F. McGovern. 1,783,664; Dec. 2.
Shanking machine. D. E. Harding. 1,783,907; Dec. 2.
Shearing and riveting machine. C. A. Olson, F. L. Buch and T. E. Brooks. 1,783,445; Dec. 2.
Ship for conveying river boats across the sea, Dock. O. Popper. 1,783,450; Dec. 2.
Shock absorber. D. B. D. Blake. 1,783,599; Dec. 2.
Shock absorber. V. Patricolo. 1,783,387–8; Dec. 2.
Shoe-stitcher attachment. F. Paradiso. 1,783,198; Dec. 2.
Shoe stretcher or adjuster. C. R. Boyd. 1,783,600; Dec. 2.
Shore. A. H. Symons. 1,783,266; Dec. 2.
Sign flasher. C. Hotchiss. 1,783,474; Dec. 2.
Signal: *See*—
Automobile signal. Door-operated signal.
Directional signal.
Signal. J. B. Hamilton. 1,783,504; Dec. 2.
Signal. F. P. Radcliffe. 1,783,855; Dec. 2.
Signal device, Electrodynamic. C. R. Hanna. 1,783,569; Dec. 2.
Signal device for automobiles. H. Kageyama. 1,783,718; Dec. 2.
Silver iodide compound and preparing same, Colloidal. H. S. Keelan. 1,783,334; Dec. 2.
Single-roll crusher. G. W. Borton. 1,783,373; Dec. 2.
Slack Take-up device. R. H. Floyd. 1,783,359; Dec. 2.
Sleeve-valve engine. C. E. King. 1,783,722; Dec. 2.
Slicing machine, Adjustable. C. L. Collins and J. V. Anzulovic. 1,783,222; Dec. 2.
Snubber for automobiles. E. Matthews. 1,783,193; Dec. 2.
Soldering flux. H. C. Mougey. 1,783,925; Dec. 2.
Soldering machine, Automatic. J. E. Ferguson, R. W. Conn, and W. A. Hoffman. 1,783,642; Dec. 2.
Sound amplifier. C. C. Flynn. 1,783,360; Dec. 2.
Sound-reproducing device. M. Nystrom. 1,783,385; Dec. 2.
Spark plug. P. O. Stewart. 1,783,526; Dec. 2.
Spark plug, Antifouling. P. O. Stewart. 1,783,525; Dec. 2.
Speculum, Vaginal. M. H. Damron. 1,783,602; Dec. 2.
Speedometer. R. O. Helgeby. 1,783,918; Dec. 2.
Speedometer drive clamp. E. A. Gustafson. 1,783,917; Dec. 2.
Spindle screw machines, Chuck-operating mechanism for automatic. C. Q. Garey. 1,783,565; Dec. 2.
Spinning frame. C. Morton. 1,783,301; Dec. 2.
Spinning machines, Pumping unit for artificial-silk-. C. W. Lawser. 1,783,439; Dec. 2.
Spittoon of variable height fit for dentists or physicians. L. Wurlod. 1,783,688; Dec. 2.
Splice bar or fishplate. L. S. Wilbur. 1,783,351–3; Dec. 2.
Spotlight attachment. H. H. Moreton. 1,783,516; Dec. 2.
Sprayer, Hand-pump. M. A. Kohn. 1,783,882; Dec. 2.
Sprinkler. L. W. Greer. 1,783,237; Dec. 2.
Stand: *See*—
Desk stand. Typewriter stand.
Switch stand.
Stand or similar device, Golf teeing. J. H. Holm. Des. 82,678; Dec. 2.
Starting device for fan motors. R. H. Jordan. 1,783,175; Dec. 2.
Steam plant. F. Wettstein. 1,783,204; Dec. 2.
Steel articles, Zone hardening. J. R. Adams. 1,783,764; Dec. 2.
Steering device, Ship. C. F. Selzer. 1,783,752; Dec. 2.
Steering mechanism for self-propelled vehicles. G. Holmes. 1,783,288; Dec. 2.
Stencil printing machine. J. H. Petersen. 1,783,810; Dec. 2.
Stepladder. H. C. Haehmuth. 1,783,616; Dec. 2.
Stereotype-plate-cooling apparatus. O. C. Roesen. 1,783,345; Dec. 2.
Stiffeners for boots and shoes, Device for softening. H. L. Sawyer. 1,783,587; Dec. 2.
Stop mechanism for detecting irregularities in wire feeding. W. H. Sommer. 1,783,947; Dec. 2.
Stove. H. H. Fleer. Des. 82,668; Dec. 2.
Stove, Oil. R. M. Sherman. 1,783,392; Dec. 2.
Strapping joint. J. W. Leslie. 1,783,192; Dec. 2.
Strapping joint. J. W. Leslie. 1,783,247; Dec. 2.
Stretcher, Curtain. E. B. and W. C. Fenton. 1,783,835; Dec. 2.
Strip for terrazo floors and like structures. G. P. Granell. 1,783,783; Dec. 2.
Submarines and like vessels, Transmitting tube for. C. A. and W. T. Ohman. 1,783,668; Dec. 2.
Submarines, Emergency feeder device for. J. M. Clark. 1,783,221; Dec. 2.
Suit, Bathing. W. D. Ide. 1,783,174; Dec. 2.
Suit, Ensemble. D. Long. Des. 82,683; Dec. 2.
Sulphate and producing the same, White anhydrous calcium. C. B. Durgin, A. B. Gerber, and P. Logue. 1,783,417; Dec. 2.
Sulphur composition and making the same. H. Blumenberg, jr. 1,783,695; Dec. 2.
Sulphur from alkali-metal polysulphides, Recovery of. H. Langheinrich. 1,783,725; Dec. 2.
Support, Clothesline. J. L. Keller. 1,783,433; Dec. 2.
Support construction for large-filament lamps. A. C. Massie. 1,783,623; Dec. 2.
Support, Folding. W. E. Brown. 1,783,558; Dec. 2.
Support for drop tubes. J. A. Martocello. 1,783,808; Dec. 2.
Support for transmission lines. A. O. Austin. 1,783,272; Dec. 2.
Supporter, Flask. W. Anderssen. 1,783,765; Dec. 2.
Supporting bracket. J. A. Morthland. 1,783,666; Dec. 2.
Supporting frame, Hammock or glider. D. M. Lillibridge. 1,783,848; Dec. 2.
Supporting structure for long spans for high-speed suspended vehicles, Rail-. F. Heyner. 1,783,648; Dec. 2.
Surface-treating machine. T. E. D. Bilde. 1,783,773; Dec. 2.
Surveyor's rod. R. E. Kapps. 1,783,507; Dec. 2.
Suspender, Lingerie. M. L. Helmbold and F. T. O'Malley. 1,783,470; Dec. 2.
Suspension clamp. F. H. Miller. 1,783,543; Dec. 2.
Swings, Attachment for porch. W. H. Fry. 1,783,502; Dec. 2.
Switch: *See*—
Electric snap switch. Float-operated switch.
Electric switch. Inclosed switch.
Electrical switch. Thermostatic switch.
Switch and signal system, Electric. F. H. Richterkessing. 1,783,308; Dec. 2.
Switch stand. S. L. Eastburn. 1,783,283; Dec. 2.
Switching system, Remote-control. L. F. Bird. 1,783,900; Dec. 2.
Table: *See*—
Collapsible table. Fruit-grading table.
Table and bench, Folding. M. Maes. 1,783,660; Dec. 2.
Tank: *See*—
Feed tank.
Telephone-station equipment. N. H. Saunders and T. C. Riebe. 1,783,310; Dec. 2.
Telephone system. W. Schulz, M. Frischke, and K. Schiffmann. 1,783,312; Dec. 2.
Telephone system, Party-line. O. C. Levy. 1,783,295; Dec. 2.
Telephones, Auxiliary base and switch attachment for. C. F. Johanning. 1,783,936; Dec. 2.
Temperature control in pulverizing mills, Automatic. J. Crites and W. A. Koren. 1,783,358; Dec. 2.
Textile fabric. E. Parsons. Des. 82,691; Dec. 2.
Thermal control system. G. C. Pearce. 1,783,520; Dec. 2.
Thermostat. J. J. Lawler. 1,783,574; Dec. 2.
Thermostatic control apparatus. A. W. Walker. 1,783,320; Dec. 2.
Thermostatic device. E. A. Rutenber. 1,783,309; Dec. 2.
Thermostatic switch. H. D. Matthews. 1,783,179; Dec. 2.
Thread protector. H. A. Unke. 1,783,892; Dec. 2.
Thread-rolling machine, High-speed. J. A. Kinney. 1,783,796; Dec. 2.
Threading die. W. J. Hogg. 1,783,539; Dec. 2.
Tie for metal straps. L. M. Harvey. 1,783,239; Dec. 2.
Tile block. B. B. Bolton. Des. 82,657; Dec. 2.
Tilting casting box. H. A. W. Wood. 1,783,323; Dec. 2.
Timber splicer. C. M. Markham. 1,783,622; Dec. 2.
Tool, Axial pulling. J. W. Howell. 1,783,649; Dec. 2.
Tool, Combined lifting and carrying. R. A. Stevenson. 1,783,680; Dec. 2.
Tool, Pile driving. L. L. Richardson. 1,783,523; Dec. 2.
Tools, Safety attachment for machine. O. L. Klugh and T. E. Haverstick. 1,783,476; Dec. 2.
Top, Novelty. V. O. Raimondi. 1,783,627; Dec. 2.
Top, Whipping. H. Vollhardt. 1,783,593; Dec. 2.
Towing mechanism. E. F. Green. 1,783,189; Dec. 2.
Toy. L. Marx. 1,783,511; Dec. 2.
Toy figures, Making. Y. Keney. 1,783,720; Dec. 2.
Tractors, Attachment for. J. D. Cummings. 1,783,282; Dec. 2.
Train-control system. T. Bodde. 1,783,491; Dec. 2.
Transfer press. F. T. Sheedy, H. C. Wood, and L. Traung. 1,783,888; Dec. 2.
Transmission. D. D. Maurer. 1,783,513; Dec. 2.
Transmission control. P. L. Tenney and H. E. Fidler. 1,783,931; Dec. 2.
Transmission, Overgear. C. H. Sterling. 1,783,930; Dec. 2.
Transmission, Overspeed. C. H. Sterling. 1,783,393; Dec. 2.
Trap: *See*—
Boiler return and vacuum trap. Insect trap.
Trap. M. J. Petersen. 1,783,670; Dec. 2.
Trap structure, Fish-. W. G. Hume. 1,783,716; Dec. 2.

Tray for pottery fabricating apparatus. W. J. Miller. 1,783,197; Dec. 2.
Tray, Posting. P. Bergmann. 1,783,871; Dec. 2.
Trees, Method of and apparatus for treating fruit. T. W. Johnson. 1,783,430; Dec. 2.
Trim-saw lift unit. J. L. Goodspeed. 1,783,362; Dec. 2.
Trousers and height of waist bands, Device for measuring the inseams of men's. D. W. Dockstader. 1,783,906; Dec. 2.
Truck, Car. M. H. Martin. 1,783,737; Dec. 2.
Truck, Direct-drive electric railway. V. G. Apple. 1,783,269; Dec. 2.
Truck, Fire. A. de la Mare. Des. 82,661; Dec. 2.
Truck for winding machines, Bobbin-supply. J. O. McKean. 1,783,911; Dec. 2.
Tube-flanging wrench. J. Canny and H. Blondeau. 1,783,639; Dec. 2.
Tube-tapering apparatus. F. Müller. 1,783,384; Dec. 2.
Tube-transporting device. O. Bamberger. 1,783,555; Dec. 2.
Tubing, Making electrically-welded. J. W. Holt. 1,783,571; Dec. 2.
Tuning device, Selector. J. O. Prescott. 1,783,671; Dec. 2.
Twisting machines, Yarn stop motion for. C. Aveyard. 1,783,897; Dec. 2.
Type levers, Setting. H. Luce. 1,783,177; Dec. 2.
Typewriter stand, Adjustable. A., J. W., and W. J. Makoski. 1,783,661; Dec. 2.
Typewriting machine. G. O. Degener. 1,783,604; Dec. 2.
Unloading machine. E. L. Bradt. 1,783,823; Dec. 2.
Utensil, Cooking. W. O. Isaacson. 1,783,792; Dec. 2.
Utensil, Kitchen. A. C. Denmark and L. O. Bryant. 1,783,830; Dec. 2.
Utensil, Kitchen. H. R. Johnson. 1,783,651; Dec. 2.
Vacuum-cleaner attachment for automobiles. W. C. Rehwold and J. G. Duff. 1,783,674; Dec. 2.
Vacuum cleaners, Disinfecting attachment for. B. P. Smith. 1,783,859; Dec. 2.
Valve. J. H. Cox. 1,783,281; Dec. 2.
Valve. J. H. Edmonds. 1,783,329; Dec. 2.
Valve. C. S. Johnson. 1,783,621; Dec. 2.
Valve. J. O. Lewis. 1,783,441; Dec. 2.
Valve actuation for a burglar-repelling device. H. W. Montgomery. 1,783,515; Dec. 2.
Valve, Automatic gas-control. A. D. Taylor. 1,783,395; Dec. 2.
Valve, Automatic safety. C. M. Lieber. 1,783,440; Dec. 2.
Valve bag, Siftproof. E. W. Menke, and J. C. Redington. 1,783,624; Dec. 2.
Valve control, Choke and needle. G. Selzer. 1,783,677; Dec. 2.
Valve, Cut-out. F. Schiele. 1,783,628; Dec. 2.
Valve for rock drills. J. C. Curtis. 1,783,829; Dec. 2.
Valve insides. J. C. Crowley. 1,783,327; Dec. 2.
Valve mechanism. J. P. Humason. 1,783,291; Dec. 2.
Valve mechanism for gas meters. G. Meyer. 1,783,742; Dec. 2.
Valve, Mixing. L. Sirotek. 1,783,264; Dec. 2.
Valve, Pressure-reducing. J. R. Tyre. 1,783,500; Dec. 2.
Valve-seat liner. C. C. Lee. 1,783,884; Dec. 2.
Valve-spring lifter. C. W. Carr. 1,783,827; Dec. 2.
Valve, Stop. O. Hajek. 1,783,646; Dec. 2.
Valve, Thermostatic. E. J. Leach. 1,783,730; Dec. 2.
Vehicle brake. J. J. McGuire. 1,783,852; Dec. 2.
Vehicle, Motor. W. R. Griswold. 1,783,614; Dec. 2.
Vehicle, Road. R. B. Fageol. Re17,889; Dec. 2.
Vehicle, Self-propelled road. E. T. J. Tapp. 1,783,890; Dec. 2.
Vehicles, Handling and storing motor. G. Lowenstein. 1,783,206; Dec. 2.
Vending machine, Coin-controlled. J. W. Beeson. 1,783,325; Dec. 2.
Ventilating construction, Automobile. H. Ford. 1,783,501; Dec. 2.
Ventilating device, Sound-controlling. H. R. Bliss. 1,783,276; Dec. 2.
Ventilator. S. E. Cibulas. 1,783,406; Dec. 2.
Vibratory screen. F. H. Haselow, and C. Redig. 1,783,617; Dec. 2.
Vise. T. R. Woods. 1,783,594; Dec. 2.
Visible flow indicator. B. Geyer and R. J. Jauch. 1,783,542; Dec. 2.
Voltage controlling and regulating device. G. Merle, sr. 1,784,542; Dec. 2.
Voltage generator, Constant. F. B. Monar. 1,783,745; Dec. 2.
Voltage transformer, Variable. J. F. Peters and A. J. Maslin. 1,783,545; Dec. 2.
Vulcanizing appliance. J. D. Voss. 1,783,894; Dec. 2.
Warp knitting, Fashioned. P. Lévy. 1,783,847; Dec. 2.
Washer-loading device. S. J. Finn. 1,783,232–3; Dec. 2.
Washing machine. O. T. Dehle. 1,783,415; Dec. 2
Water meter. E. E. Gamon. 1,783,707; Dec. 2.
Water softener. F. W. Miller. 1,783,255; Dec. 2.
Water Softeners, Construction of zeolite. R. O. Friend. 1,783,466; Dec. 2.
Wave beautifier, Permanent-. J. Koerner. 1,783,881; Dec. 2.
Weather strip for doors, Roller. A. Olson. 1,783,305; Dec. 2.
Welding machines, Attachment for. E. W. Little. 1,783,337; Dec. 2.
Welding strip for golf shafts. H. C. Lagerblade. 1,783,802; Dec. 2.
Welding tubular articles, Electrically. W. E. Crawford. 1,783,411; Dec. 2.
Wheel: *See*—
Car wheel. Grinding wheel.
Disk wheel.
Wheel-hub construction, Vehicle. C. G. Keller. 1,783,432; Dec. 2.
Wheel mount, Abrasive-. T. Larsson. 1,783,729; Dec. 2.
Whipper and mixer. W. L. Laib. 1,783,437; Dec. 2.
Window construction. W. M. Richter. 1,783,483; Dec. 2.
Window frame, Collapsible. C. Mattson. 1,783,910; Dec. 2.
Window-regulator adjustment. C. O. Ball. 1,783,933; Dec. 2.
Window screen. L. Levi. 1,783,732; Dec. 2.
Windshield clarifier. L. Askam. 1,783,270; Dec. 2.
Windshield cleaner. J. R. Oishei, H. Bueber, W. Paulus, and E. C. Horton. 1,783,582; Dec. 2.
Wire, Apparatus for coating. C. D. Johnson. 1,783,429; Dec. 2.
Wire-cutting mechanism. A. W. Johnson. 1,783,620; Dec. 2.
Wire fabrics, Making. W. H. Sommer. 1,783,948; Dec. 2.
Wire-fence machine. W. H. Sommer. 1,783,946; Dec. 2.
Wire, Making cement-coated. J. B. Green. 1,783,613; Dec. 2.
Wood-bending machine. C. W. Elliott. 1,783,187; Dec. 2.
Wrapping machine. H. W. A. Dixon. 1,783,226; Dec. 2.
Wrench: *See*—
Tube-flanging wrench.
Wringer and holder, Mop. D. Kenner. 1,783,879; Dec. 2.
Wringers, Feed apron for. F. W. Sigsbey. 1,783,347; Dec. 2.
X-ray dental film package. P. Goldacker and M. Schmidt. 1,783,467; Dec. 2.
Yarn or threads wound upon spools, Washing. B. Borzykowski. 1,783,493; Dec. 2.
Yarn, Treating. J. C. Hebden. 1,783,908; Dec. 2.
Yeast, Purifying. G. T. Reich. 1,783,521; Dec 2.

CLASSIFICATION OF PATENTS

ISSUED DECEMBER 2, 1930

NOTE.—First number=class, second number=subclass, third number=patent number

2— 42: 1,783,512
67: 1,783,174
72: 1,783,572
79: 1,783,485
1,783,538
86: 1,783,505
175: 1,783,549
176: 1,783,760
4— 113: 1,783,640
203: 1,783,460
263: 1,783,688
5— 18: 1,783,530
21: 1,783,531
127: 1,783,848
7— 16: 1,783,346
8— 5: R. 17,894
1,783,607
17: 1,783,908
10— 89: 1,783,539
162: 1,783,218
12— 17: 1,783,212
128.3: 1,783,600
136: 1,783,658
1,783,682
1,783,862
15— 8: 1,783,205
119: 1,783,879
126: 1,783,506
137: 1,783,754
160: 1,783,788
209: 1,783,775
229: 1,783,795
255: 1,783,582
16— 149: 1,783,475
201: 1,783,573
17— 12: 1,783,609
18— 1: 1,783,232
1,783,233
18: 1,783,894
19: 1,783,915
53: 1,783,216
54: 1,783,493
19— 2: 1,783,693
68: 1,783,333
130: 1,783,301
20— 12: 1,783,910
20: 1,783,378
40.5: 1,783,270
1,783,861
52.1: 1,783,483
52.6: 1,783,919
56.5: 1,783,326
68: 1,783,305
92: 1,783,622
22— 2: 1,783,323
124. 1,783,285
133: 1,783,805
23— 2: 1,783,901
5: 1,783,417
102: 1,783,647
117: 1,783,684
122: 1,783,778
182: 1,783,304
203: 1,783,744
229: 1,783,725
236: 1,783,662
252: 1,783,726
271: 1,783,591
24— 11: 1,783,736
23: 1,783,192
1,783,239
1,783,247
71: 1,783,743
81: 1,783,751
84: 1,783,578
158: 1,783,470
191: 1,783,306
205: R. 17,891
1,783,550
216: 1,783,748
224: 1,783,497
250: 1,783,678
261: 1,783,484
25— 17: 1,783,287
22: 1,783,197
28— 21: 1,783,236
29— 1.23: 1,783,261

29— 3: 1,783,854
34: 1,783,445
37: 1,783,528
1,783,565
38: 1,783,566
41: 1,783,637
48: 1,783,618
84: 1,783,791
1,783,902
85: 1,783,649
148: 1,783,927
149.5: 1,783,438
156.62: 1,783,886
169.5: 1,783,386
30— 3: 1,783,534
1,783,830
13: 1,783,583
1,783,853
32— 10: 1,783,252
1,783,259
33— 8: 1,783,906
74: 1,783,507
85: 1,783,883
187: 1,783,260
34— 24: 1,783,757
38: 1,783,673
35— 8: 1,783,657
36— 2: 1,783,832
34: 1,783,514
35: R17,890
71: 1,783,210
37— 9: 1,783,462
142: 1,783,350
144: 1,783,941
39— 5: 1,783,579
11: 1,783,508
40— 117: 1,783,302
132: 1,783,422
202: 1,783,937
41— 9: 1,783,390
10: 1,783,223
33: 1,783,606
39: 1,783,828
41: 1,783,608
43: 1,783,663
42— 74: 1,783,246
43— 7: 1,783,716
89: 1,783,670
107: 1,783,631
44— 15: 1,783,759
45— 11: 1,783,556
24: 1,783,835
38: 1,783,712
111: 1,783,661
117: 1,783,558
137: 1,783,873
46— 32: 1,783,593
1,783,627
40: 1,783,511
1,783,720
1,783,721
47— 1: 1,783,430
11: 1,783,650
48— 180: 1,783,536
1,783,612
49— 2: 1,783,806
5: 1,783,201
33: 1,783,473
42: 1,783,191
47: 1,783,208
50— 35: 1,783,500
51— 101: 1,783,755
207: 1,783,727
1,783,728
1,783,729
218: 1,783,540
53— 5: 1,783,183
7: 1,783,696
1,783,792
56— 232: 1,783,517
271: 1,783,672
364: 1,783,400
417: 1,783,241
59— 87: 1,783,860
60— 54.6: 1,783,359
94: 1,783,204
61— 41: 1,783,812

61— 76: 1,783,523
62— 1: 1,783,345
114: 1,783,864
1,783,867
152: 1,783,464
159: 1,783,807
1,783,808
66— 43: 1,783,202
86: 1,783,847
68— 3: 1,783,245
1,783,433
18: 1,783,186
32: 1,783,347
70— 16: 1,783,581
17: 1,783,905
53: 1,783,923
71— 9: 1,783,694
72— 15: 1,783,609
42: 1,783,383
70: 1,783,248
101: 1,783,391
138: 1,783,683
73— 1: 1,783,742
51: 1,783,412
1,783,455
98: 1,783,707
167: 1,783,880
74— 7: 1,783,917
14: 1,783,380
1,783,589
1,783,645
1,783,758
17: 1,783,698
1,783,922
26: 1,783,340
27: 1,783,826
34: 1,783,877
38: 1,783,664
1,783,825
39: 1,783,324
56: 1,783,653
57: 1,783,930
58: 1,783,393
1,783,533
59: 1,783,513
97: 1,783,931
108: 1,783,477
77— 7: 1,783,786
39: 1,783,503
80— 8: 1,783,796
12: 1,783,384
41: 1,783,524
44: 1,783,555
48: 1,783,815
81— 17: 1,783,594
83— 11: 1,783,717
14: 1,783,373
26: 1,783,749
44: 1,783,358
73: 1,783,332
84— 50: 1,783,319
115: 1,783,375
269: 1,783,243
270: 1,783,244
323: 1,783,638
377: 1,783,173
383: 1,783,824
411: 1,783,843
464: 1,783,789
473: 1,783,361
484: 1,783,537
86— 20: 1,783,372
88— 1: 1,783,769
16: 1,783,463
16.6: 1,783,399
20: 1,783,461
24: 1,783,481
89— 3: 1,783,577
91— 12.5: 1,783,429
39: 1,783,773
44: 1,783,689
46: 1,783,575
1,783,587
48: 1,783,263
50: 1,783,850
54.4: 1,783,679
68: 1,783,188

91— 68: 1,783,613
1,783,849
1,783,895
92— 47: 1,783,868
48: 1,783,317
93— 2: 1,783,226
7: 1,783,814
35: 1,783,845
94— 17: 1,783,782
1,783,783
96— 24: 1,783,858
98— 84: 1,783,406
99: 1,783,276
99— 2: 1,783,898
100— 41: R. 17,893
101— 20: 1,783,182
1,783,219
33: 1,783,888
35: 1,783,401
119: 1,783,810
152: 1,783,819
178: 1,783,766
1,783,767
1,783,889
198: 1,783,942
401.2: 1,783,838
103— 23: 1,783,940
25: 1,783,428
103: 1,783,667
126: 1,783,209
156: 1,783,425
162: 1,783,439
181: 1,783,615
225: 1,783,291
236: 1,783,374
246: 1,783,747
104— 76: 1,783,268
124: 1,783,648
105— 33: 1,783,911
54: 1,783,269
172: 1,783,300
197: 1,783,737
323: 1,783,480
366: 1,783,363
106— 36.2: 1,783,738
1,783,739
1,783,740
40: 1,783,176
107— 2: 1,783,434
8: 1,783,402
21: 1,783,222
66: 1,783,798
1,783,799
110— 33: 1,783,878
49: 1,783,809
112— 51: 1,783,198
78: 1,783,449
220: 1,783,836
113— 59: 1,783,642
110: 1,783,802
114— 16: 1,783,691
16.4: 1,783,221
1,783,668
67: 1,783,322
72: 1,783,450
145: 1,783,752
178: 1,783,336
115— 34: 1,783,331
116— 54: 1,783,307
84: 1,783,846
117: 1,783,379
1,783,644
124.4: 1,783,671
126: 1,783,251
150: 1,783,267
117— 33: 1,783,897
52: 1,783,315
119— 77: 1,783,790
120— 42: 1,783,436
1,783,681
46: 1,783,734
108: 1,783,630
1,783,772
121— 19: 1,783,820
122— 7: 1,783,724
37: 1,783,842
504: 1,783,368

123— 25: 1,783,254
1,783,746
99: 1,783,431
122: 1,783,781
140: 1,783,803
148: 1,783,343
169: 1,783,525
1,783,526
170: 1,783,478
171: 1,783,318
173: 1,783,722
174: 1,783,289
191: 1,783,499
1,783,603
1,783,714
1,783,715
198: 1,783,921
126— 38: 1,783,601
53: 1,783,392
127— 30: 1,783,626
41: 1,783,551
128— 3: 1,783,602
185: 1,783,451
129— 1: 1,783,777
16: 1,783,871
16.7: 1,783,800
17: R. 17,895
130— 30: 1,783,489
132— 36: 1,783,610
73: 1,783,262
134— 1: 1,783,365
1,783,366
14: 1,783,702
26: 1,783,364
137— 21: 1,783,249
1,783,891
34.3: 1,783,440
53: 1,783,646
70: 1,783,256
75: 1,783,605
91: 1,783,802
1,783,893
99: 1,783,509
111: 1,783,492
139: 1,783,515
1,783,677
162: 1,783,395
139— 92: 1,783,793
1,783,794
110: 1,783,719
1,783,779
231: 1,783,768
270: 1,783,518
140— 4: 1,783,946
112: 1,783,944
1,783,948
140: 1,783,620
141— 1: 1,783,194
5: 1,783,407
7: 1,783,776
9: 1,783,349
143— 41: 1,783,362
162: 1,783,330
144— 251: 1,783,476
255: 1,783,187
291: 1,783,456
303: 1,783,713
148— 6: 1,783,770
23: 1,783,925
149— 20: 1,783,907
150— 1.7: 1,783,275
9: 1,783,624
152— 12: 1,783,327
14: 1,783,872
153— 32: 1,783,177
48: 1,783,797
53: 1,783,250
79: 1,783,639
154— 51: 1,783,839
155— 65: 1,783,502
83: 1,783,660
93: 1,783,426
182: 1,783,675
156— 23: R. 17,896
38: 1,783,732
158— 7: 1,783,490

158— 28: 1,783,405
1,783,576
42.3: 1,783,213
53: 1,783,567
56: 1,783,564
74: 1,783,818
99: 1,783,195
113: 1,783,685
115: 1,783,676
164— 63: 1,783,869
66: R. 17,892
167— 3: 1,783,859
14: 1,783,695
19: 1,783,377
38: 1,783,200
170— 5: 1,783,669
156: 1,783,887
173: 1,783,225
171— 95: 1,783,297
1,783,559
1,783,851
1,783,932
119: 1,783,545
206: 1,783,344
1,783,837
224: 1,783,745
321: 1,783,371
172— 36: 1,783,486
152: 1,783,629
179: 1,783,175
239: 1,783,527
288: 1,783,520
173— 251: 1,783,271
1,783,272
356: 1,783,342
175— 2: 1,783,561
21: 1,783,560
294: 1,783,552
1,783,568
361: 1,783,220
1,783,548
363: 1,783,804
375: 1,783,820
1,783,900
1,783,904
176— 39: 1,783,623
177— 329: 1,783,316
1,783,855
333: 1,783,936
337: 1,783,718
339: 1,783,504
353: 1,783,633
178— 7: 1,783,321
27: 1,783,382
179— 27: 1,783,295
1,783,310
41: 1,783,312
100.4: 1,783,498
1,783,761
100.41: 1,783,265
121: 1,783,569
1,783,557
180— 9.2: 1,783,288
22: 1,783,890
53: 1,783,282
69: 1,783,816
69.01: 1,783,896
70: 1,783,780
73: 1,783,424
81: 1,783,293
181— 27: 1,783,360
31: 1,783,926
32: 1,783,385
183— 2.5: 1,783,510
51: 1,783,240
62: 1,783,181
80: 1,783,813
184— 55: 1,783,522
104: 1,783,472
188— 30: 1,783,852
42: 1,783,294
188— 78: R. 17,888
88: 1,783,387
140: 1,783,280
194: 1,783,774
189— 46: 1,783,235
82: 1,783,196

189— 85: 1,783,454
87: 1,783,180
191— 36: 1,783,710
192— 35: 1,783,741
125: 1,783,947
131: 1,783,817
194— 80: 1,783,325
195— 20: 1,783,521
196— 13: 1,783,203
48: 1,783,229
49: 1,783,228
1,783,257
1,783,259
58: 1,783,231
59: 1,783,697
99: 1,783,185
197— 29: 1,783,604
198— 88: 1,783,823
226: 1,783,619
199— 4: 1,783,704
44: 1,783,929
200— 9: 1,783,763
15: 1,783,903
19: 1,783,495
33: 1,783,634
48: 1,783,389
67: 1,783,298
1,783,636
1,783,665
68: 1,783,690
72: 1,783,635
84: 1,783,448
87: 1,783,421
113: 1,783,474
117: 1,783,242
122: 1,783,179
139: 1,783,309
150: 1,783,279
159: 1,783,731
161: 1,783,656
168: 1,783,784
201— 48: 1,783,542
67: 1,783,554
74: 1,783,863

202— 5: 1,783,230
118: 1,783,190
204— 1: 1,783,435
5: 1,783,885
24: 1,783,595
206— 41: 1,783,756
47: 1,783,453
208— 184: 1,783,833
209— 88: 1,783,404
107: 1,783,496
123: 1,783,700
144: 1,783,357
166: 1,783,206
1,783,207
403: 1,783,617
210— 5: 1,783,341
24: 1,783,255
1,783,466
134: 1,783,444
164: 1,783,924
211— 89: 1,783,840
134: 1,783,703
172: 1,783,488
213— 127: 1,783,655
214— 1: 1,783,939
16.1: 1,783,296
18: 1,783,459
90: 1,783,787
130: 1,783,532
145: 1,783,831
215— 44: 1,783,314
96: 1,783,909
100: 1,783,765
218— 2: 1,783,706
219— 4: 1,783,337
10: 1,783,411
1,783,571
1,783,764
44: 1,783,881
220— 24: 1,783,687
88: 1,783,701
221— 16: 1,783,457
100: 1,783,916
103: 1,783,419

221— 118: 1,783,423
222— 3: 1,783,632
223— 61: 1,783,709
228— 29: 1,783,616
37: 1,783,686
229— 14: 1,783,570
29: 1,783,397
230— 55: 1,783,611
95: 1,783,674
254: 1,783,652
233— 31: 1,783,546
235— 60: 1,783,943
91: 1,783,562
96: 1,783,398
236— 9: 1,783,821
1,783,945
15: 1,783,320
34: 1,783,730
45: 1,783,418
56: 1,783,381
238— 8: 1,783,274
10: 1,783,367
151: 1,783,238
243: 1,783,351
1,783,352
1,783,353
262: 1,783,876
304: 1,783,841
330: 1,783,452
240— 2: 1,783,519
1,783,544
7.35: 1,783,311
8.16: 1,783,920
10: 1,783,277
52: 1,783,750
1,783,874
61: 1,783,516
78: 1,783,468
242— 84.4: 1,783,494
113: 1,783,692
161: 1,783,339
244— 2: 1,783,227
15: 1,783,458
18: 1,783,856

244— 21: 1,783,452
29: 1,783,529
31: 1,783,413
1,783,590
246— 63: 1,783,491
174: 1,783,857
227: 1,783,308
286: 1,783,283
247— 2: 1,783,547
25: 1,783,356
1,783,408
1,738,409
27: 1,783,178
248— 19: 1,783,708
20: 1,783,278
1,783,666
30: 1,783,266
31: 1,783,543
250— 14: 1,783,292
1,783,899
27: 1,783,234
33: 1,783,299
34: 1,783,467
35: 1,783,643
251— 10: 1,783,621
24: 1,783,281
59: 1,783,329
98: 1,783,441
104: 1,783,628
167: 1,783,884
252— 2: 1,783,396
6: 1,783,334
1,783,471
254— 93: 1,783,822
108: 1,783,827
255— 19: 1,783,914
51: 1,783,290
75: 1,783,580
257— 39: 1,783,286
63: 1,783,865
95: 1,783,465
101: 1,783,866
125: 1,783,928
188: 1,783,641

257— 190: 1,783,328
205: 1,783,585
229: 1,783,355
231: 1,783,369
240: 1,783,844
259— 1: 1,783,651
85: 1,783,553
95: 1,783,415
102: 1,783,437
260— 48: 1,783,588
53: 1,783,592
1,783,659
101: 1,783,184
1,783,771
137: 1,783,584
146: 1,783,313
261— 53: 1,783,217
64: 1,783,214
1,783,273
262— 9: 1,783,443
263— 44: 1,783,284
264— 13: 1,783,918
266— 27: 1,783,416
267— 8: 1,783,388
1,783,599
30: 1,783,199
1,783,394
1,783,801
48: 1,783,193
268— 63: 1,783,354
270— 55: 1,783,625
271— 62: 1,783,912
272— 33: 1,783,586
79: 1,783,376
273— 33: 1,783,211
1,783,733
85: 1,783,370
106.5: 1,783,303
123: 1,783,338
274— 17: 1,783,723
276— 40: 1,783,811
277— 31: 1,783,264
279— 1: 1,783,596
1,783,870

279— 77: 1,783,541
1,783,654
106: 1,783,420
280—33.14: 1,783,189
47: 1,783,913
90: 1,783,348
96.1: 1,783,614
124: R. 17,889
282— 28: 1,783,442
283— 59: 1,783,258
285— 90: 1,783,410
185: 1,783,597
286— 7: 1,783,427
287— 87: 1,783,403
288— 1: 1,783,762
290— 30: 1,783,935
291— 19: 1,783,834
292— 67: 1,783,598
76: 1,783,563
89: 1,783,711
173: 1,783,447
263: 1,783,753
268: 1,783,253
325: 1,783,938
359: 1,783,785
293— 55: 1,783,335
1,783,875
1,783,934
294— 26: 1,783,680
82: 1,783,224
295— 34: 1,783,705
296— 44: 1,783,933
94: 1,783,501
297— 8: 1,783,574
299— 97: 1,783,882
141: 1,783,237
302— 36: 1,783,487
304— 40: 1,783,735
308— 15: 1,783,446
125: 1,783,535
236: 1,783,432
312— 61: 1,783,414
67: 1,783,479
77: 1,783,215

U. S. GOVERNMENT PRINTING OFFICE: 1930

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS

A/S United Sardine Factories, Bergen, Norway. Sardines, herring, kipper snacks, etc. 278,213; Dec. 9; Serial No. 295,413; published Sept. 23, 1930. Class 46.

Adlanco Industrial Products Corporation, New York, N. Y. Electrical apparatus for assisting persons with defective hearing. 278,199; Dec. 9; Serial No. 299,881; published Sept. 23, 1930. Class 44.

Aerometric Valve Corporation, Portland, Oreg. Tire-inflating devices. 278,256; Dec. 9; Serial No. 292,861; published June 10, 1930. Class 13.

Alabastine Company, Grand Rapids, Mich. Painter's size. 278,163; Dec. 9; Serial No. 302,879; published Sept. 16, 1930. Class 16.

Alabastine Company, Grand Rapids, Mich. Patching plaster. 278,232; Dec. 9; Serial No. 302,881; published Sept. 16, 1930. Class 12.

Alabastine Company, Grand Rapids, Mich. Coloring material. 278,233; Dec. 9; Serial No. 302,880; published Sept. 16, 1930. Class 12.

American Cement Paint Company, The, Rossville, Ga. Painter's sizing for walls. 278,161; Dec. 9; Serial No. 302,986; published Sept. 30, 1930. Class 16.

American Cement Paint Company, The, Rossville, Ga. Dry paint. 278,162; Dec. 9; Serial No. 302,985; published Sept. 23, 1930. Class 16.

American Disinfecting Company, Sedalia, Mo. Floor dressing. 278,149; Dec. 9; Serial No. 303,526; published Sept. 23, 1930. Class 16.

American Hat Co. Inc., The, Norwalk, Conn. Men's hats. 278,239; Dec. 9; Serial No. 303,939; published Sept. 16, 1930. Class 39.

Antognoli, Joseph, & Company, Chicago, Ill. Canned tomato paste and canned tuna fish. 278,258; Dec. 9; Serial No. 290,112; published Sept. 16, 1930. Class 46.

Bausch & Lomb Optical Company, New York, N. Y. Microscopes. 278,174; Dec. 9; Serial No. 304,792; published Sept. 30, 1930. Class 26.

Beard, Samuel S., & Company, Inc., New York, N. Y. Coffee, tea, and rice. 278,255; Dec. 9; Serial No. 269,709; published Sept. 16, 1930. Class 46.

Biddle Purchasing Co., New York, N. Y. Matches. 278,181; Dec. 9; Serial No. 304,794; published Sept. 30, 1930. Class 9.

Blanke-Baer Extract and Preserving Company, St. Louis, Mo. Jellies, fruit butters, maple syrup, etc. 278,277; Dec. 9. Class 46.

Blue Plate Foods Inc., New Orleans, La. Mayonnaise and sandwich spread. 278,165; Dec. 9; Serial No. 302,764; published Sept. 23, 1930. Class 46.

Blue Seal Extract Company, Cambridge, Mass. Beverages, syrups, and extracts therefor. 278,193; Dec. 9; Serial No. 288,269; published Nov. 26, 1929. Class 45.

Boden-Loughner Manufacturing Company. (See Loughner, John N.)

Bonck, J. H., Co., New Orleans, La. Dress shirts. 278,168; Dec. 9; Serial No. 302,299; published Sept. 16, 1930. Class 39.

Bower, Charles L., Seattle, Wash. Shoes. 278,201; Dec. 9; Serial No. 299,040; published Sept. 16, 1930. Class 39.

Brill, H. C., Company, Inc., Newark, N. J. Cake confections. 278,252; Dec. 9; Serial No. 279,516; published Apr. 9, 1929. Class 46.

Brill, H. C., Company, Inc., Newark, N. J. Cake confections. 278,253; Dec. 9; Serial No. 278,454; published Aug. 6, 1929. Class 46.

Brill, Louis, doing business as Brill Corset Co., Philadelphia, Pa. Corsets, corselets, brassières, and girdles. 278,223; Dec. 9; Serial No. 303,835; published Sept. 16, 1930. Class 39.

Burks, Robert R., doing business as Paramount Sales Co., Knoxville, Tenn. Prophylactic rubber goods. 278,156; Dec. 9; Serial No. 303,245; published Sept. 30, 1930. Class 44.

Camp, E. N., & Sons Co., Inc., Newnan, Ga. Stalk cutters, plow stocks, and guano distributors. 278,274; Dec. 9. Class 23.

Chain Belt Company, Milwaukee, Wis. Liquid pumps and saw tables and saw rigs. 278,177; Dec. 9; Serial No. 304,187; published Sept. 30, 1930. Class 23.

Cheney Lime & Cement Company, Birmingham, Ala. Slag puzzolan cement. 278,237; Dec. 9; Serial No. 303,998; published Sept. 23, 1930. Class 12.

Chesterman Co., Sioux City, Iowa. Maltless beverages and syrups and extracts used in making the same. 278,192; Dec. 9; Serial No. 304,533; published Sept. 30, 1930. Class 45.

Chicago Mill and Lumber Corporation, Chicago, Ill. Acoustical fibre board. 278,202; Dec. 9; Serial No. 303,999; published Sept. 23, 1930. Class 12.

Chicago Sanitary Products Co., Chicago, Ill. Bar polish, brass polish, liquid soap, etc. 278,268; Dec. 9. Class 4.

Clark Tructractor Company, Buchanan, Mich. Screw-conveying apparatus and parts thereof. 278,204; Dec. 9; Serial No. 304,038; published Sept. 30, 1930. Class 23.

Commonwealth Shoe and Leather Company, Boston, Mass. Boots and shoes. 278,235; Dec. 9; Serial No. 302,571; published Sept. 16, 1930. Class 39.

Consumer's Supply Co. (See Mercurio, Michael.)

Cook, John, & Sons, Inc., Chicago, Ill. Canned meats, sliced dried beef, canned corned beef hash, etc. 278,264; Dec. 9. Class 46.

Corn Products Refining Company, New York, N. Y. Glucose or corn syrup. 278,159; Dec. 9; Serial No. 303,094; published Sept. 16, 1930. Class 46.

Cornell Electric Manufacturing Co. Inc., Long Island City, N. Y. Electrical filters for use on radio sets. 278,260; Dec. 9. Class 21.

Covell Corporation, The, Philadelphia, Pa. Masonry blocks. 278,244; Dec. 9; Serial No. 297,242; published Sept. 23, 1930. Class 12.

Craftex Company. (See Herwig, Harry W., assignor.)

Craftone Manufacturing Company. (See Herwig, Harry W.)

Crawford, Keen & Co., New York, N. Y. Casein. 278,219; Dec. 9; Serial No. 300,564; published Sept. 23, 1930. Class 1.

Creo-Dipt Company, Inc., North Tonawanda, N. Y. Weatherproofed building paper. 278,227; Dec. 9; Serial No. 303,466; published Sept. 23, 1930. Class 12.

Dickinson Fuel Company, Charleston, W. Va. Coal. 278,259; Dec. 9. Class 1.

Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens. (See Mülhens, Paul P.)

Emery Industries, Inc., St. Bernard, Ohio. Candles. 278,272; Dec. 9. Class 15.

Essex Rubber Company Inc., Trenton, N. J. Rubber soles and heels. 278,203; Dec. 9; Serial No. 304,045; published Sept. 16, 1930. Class 39.

Eusey Company, The. (See Vosburg, Murray S.)

Evans Case Company, North Attleboro, Mass. Perfume atomizers. 278,148; Dec. 9; Serial No. 303,533; published Sept. 16, 1930. Class 44.

Evergreen California Hats, Inc., San Francisco, Calif. Hats and caps. 278,208; Dec. 9; Serial No. 301,167; published Sept. 16, 1930. Class 39.

Faessler, J., Mfg. Company, The, Moberly, Mo. Flue expanders for steam boilers. 278,176; Dec. 9; Serial No. 304,278; published Sept. 30, 1930. Class 23.

Federal Metal Products Corporation, Hoboken, N. J. Domestic refrigerators, commercial ice boxes, water coolers, etc. 278,191; Dec. 9; Serial No. 304,859; published Sept. 30, 1930. Class 31.

Federal Research Corporation, Woodland, Ill. Floor preparation comprising varnish and wax. 278,153; Dec. 9; Serial No. 303,371; published Sept. 16, 1930. Class 16.

Fehr, Mae E., doing business as Fehr's Products Company, Sacramento, Calif. Mayonnaise or salad dressing. 278,145; Dec. 9; Serial No. 303,534; published Sept. 16, 1930. Class 46.

Flax-li-num Insulating Company, The, St. Paul, Minn. Plaster and insulating board. 278,231; Dec. 9; Serial No. 302,999; published Sept. 23, 1930. Class 12.

Flickinger, S. M., Co., Inc., Buffalo, N. Y. Coats, pants, vests etc. 278,207; Dec. 9; Serial No. 301,258; published Sept. 16, 1930. Class 39.

Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 278,273; Dec. 9. Class 42.

Fuller, W. P., & Co., San Francisco, Calif. Polishing wax, prepared wax paste, etc. 278,194; Dec. 9; Serial No. 285,970; published Sept. 16, 1930. Class 16.

General Cone Corporation, Chicago, Ill. Ice-cream-sandwich wafers. 278,171; Dec. 9; Serial No. 301,260; published Sept. 23, 1930. Class 46.

General Sundries Co. (See Schaeffer, Louis M.)

Glosso Varnish Company, Landis, N. C. Textile-roller varnish. 278,144; Dec. 9; Serial No. 304,197; published Sept. 23, 1930. Class 16.

Gould Select Dairies, Inc., Minneapolis, Minn. Ice-cream confection. 278,169; Dec. 9; Serial No. 302,143; published Sept. 16, 1930. Class 46.

Guttknecht, J. W., Stein, near Nuremberg, Germany. Rulers, calculating rules, squares, etc. 278,242; Dec. 9; Serial No. 298,393; published Sept. 30, 1930. Class 26.

Hagerstown Shoe & Legging Co., The, Hagerstown, Md. Outsoles for boots and shoes. 278,267; Dec. 9. Class 39.

Hancock-Nelson Mercantile Company, Minnesota Transfer, Minn. Malt syrup. 278,278; Dec. 9. Class 46.

Heiman, J. H., doing business as J. H. Heiman Laboratories, Cleveland, Ohio. Diamond cleaner. 278,155; Dec. 9; Serial No. 303,248; published Sept. 16, 1930. Class 4.

Henderson Bros. Corporation, Johnstown, Pa. Shoe dressing and polish. 278,184; Dec. 9; Serial No. 304,008; published Sept. 16, 1930. Class 4.

Herwig, Harry W., doing business as Craftone Manufacturing Company, assignor, by mesne assignments, to Craftex Company, Boston, Mass. Plastic paint. 278,211; Dec. 9; Serial No. 295,028; published Mar. 11, 1930. Class 16.

Hilsenbeck, L., Inc., New York, N. Y. Prophylactic rubber articles. 278,195; Dec. 9; Serial No. 300,871; published Sept. 16, 1930. Class 44.

Hone-It Manufacturing Co., Highland Park, Mich. Razor-blade sharpeners. 278,226; Dec. 9; Serial No. 303,476; published Sept. 30, 1930. Class 23.

Hughes, James V., doing business as Kokonut Products Co., Lexington, Ky. Syrups. 278,250; Dec. 9; Serial No. 282,990; published Sept. 16, 1930. Class 46.
Hydrice Corporation, The, New York, N. Y. Frozen confections. 278,210; Dec. 9; Serial No. 294,725; published Sept. 16, 1930. Class 46.
Icard Cordage Company, Icard, N. C. Sash cord and clotheslines. 278,224; Dec. 9; Serial No. 303,717; published Sept. 30, 1930. Class 7.
Independent Druggists' Alliance Distributing Co., Chicago, Ill. Measuring glasses. 278,240; Dec. 9; Serial No. 303,899; published Sept. 30, 1930. Class 26.
International Safety Razor Corp., Bloomfield, N. J. Razor blades. 278,180; Dec. 9; Serial No. 304,819; published Sept. 30, 1930. Class 23.
Isleton Canning Co., San Francisco, and Isleton, Calif. Canned spaghetti. 278,217; Dec. 9; Serial No. 298,498; published Sept. 16, 1930. Class 46.
Jewell Electrical Instrument Co., Chicago, Ill. Electrical testing instruments for radio receivers and tubes. 278,270; Dec. 9. Class 26.
Johnston, R. F., Paint Company, The, Cincinnati, Ohio. Ready-mixed paint. 278,152; Dec. 9; Serial No. 303,480; published Sept. 16, 1930. Class 16.
Jordan, W. H. & F., Jr., Mfg. Co., Philadelphia, Pa. Liquid soaps. 278,198; Dec. 9; Serial No. 300,132; published Sept 16, 1930 Class 4.
Jung Arch Brace Company, The, Cincinnati, Ohio Arch braces. 278,197; Dec. 9; Serial No. 300,283; published Sept. 23, 1930. Class 44.
Kansas City Macaroni & Importing Co., Kansas City, Mo. Alimentary pastes. 278,251; Dec. 9; Serial No. 280,499; published Sept. 16, 1930. Class 46.
Kellogg, Spencer, and Sons, Inc., Buffalo, N. Y. Coconut hard butter. 278,160; Dec. 9; Serial No. 303,070; published Sept. 16, 1930. Class 46.
Koehring Company, assignor to The T. L. Smith Company, Milwaukee, Wis. Concrete-mixing machines. 278,263; Dec. 9. Class 23.
Kokonut Products Co. (See Hughes, James V.)
Kreuter-Faasen Company, Grand Rapids, Mich. Filler, primer, sealer, or suction stopper, wood stainers, paint enamels, etc. 278,218; Dec. 9; Serial No. 299,394; published Sept. 16, 1930. Class 16.
Levinson, David, Brooklyn, N. Y. Ice cream. 278,172; Dec. 9; Serial No. 301,116; published Sept. 16, 1930. Class 46.
Little, Charles, doing business as C. Little Mfg. Co., Detroit, Mich. Polish having incidental cleansing properties. 278,157; Dec. 9; Serial No. 303,194; published Sept. 16, 1930. Class 16.
Loeser, Frederick, & Co. Inc., Brooklyn, N. Y. Women's shoes. 278,225; Dec. 9; Serial No. 303,645; published Sept. 16, 1930. Class 39.
Logan-Long Company, The, Chicago, Ill. Outside coverings for the walls of buildings. 278,228; Dec. 9; Serial No. 303,380; published Sept. 23, 1930. Class 12.
Loughner, John N., doing business as Michigan Model Airplane Supply Company and Boden-Loughner Manufacturing Company, Detroit, Mich. Toy model airplanes and model-airplane supplies. 278,205; Dec. 9; Serial No. 302,220; published Sept. 16, 1930. Class 22.
Lucky Strike Golf Courses, Greensboro, N. C. Miniature golf courses and component parts thereof. 278,238; Dec. 9; Serial No. 303,970; published Sept. 23, 1930. Class 22.
Macy, R. H., & Co., Inc., New York, N. Y. Shoes. 278,229; Dec. 9; Serial No. 303,195; published Sept. 16, 1930. Class 39.
Mainzer, Adolf J., Inc., New York, N. Y. Cake icing. 278,146; Dec 9; Serial No. 303,509; published Sept. 16, 1930. Class 46.
McCormick Mfg. Co. Limited, London, Ontario, Canada. Biscuits. 278,216; Dec. 9; Serial No. 295,855; published Sept. 16, 1930. Class 46.
Mercurio, Michael, doing business as Consumer's Supply Co., Malden, Mass. Malt syrups. 278,220; Dec. 9; Serial No. 300,643; published Sept. 16, 1930. Class 46.
Mergott, J. E., Company, Newark, N. J. Cigarette-package-holding case. 278,262; Dec. 9. Class 8.
Michigan Model Airplane Supply Company. (See Loughner, John N.)
Mid-States Steel & Wire Co., Crawfordsville, Ind. Wire fence and barbed wire. 278,265; Dec. 9. Class 13.
Mid-States Steel & Wire Co., Crawfordsville, Ind. Wire. 278,266; Dec. 9. Class 14.
Minnesota Chemical Co., Inc., The, St. Paul, Minn. Soap powder. 278,187; Dec. 9; Serial No. 303,608; published Sept. 16, 1930. Class 4.
Miracul Wax Co., St. Louis, Mo. Liquid wax. 278,212; Dec. 9; Serial No. 295,345; published Sept. 23, 1930. Class 16.
Mitchell Wing Company, Cambridge, Mass. Soap flakes. 278,183; Dec. 9; Serial No. 304,060; published Sept. 23, 1930. Class 4.
Motor-Cars and Aero-Motors Company, Ltd. J. Walter & Co. Prague-Jinonice, Czechoslovakia. Airplane motors. 278,271; Dec. 9. Class 23.
Muesse, William, Bronx, N. Y. Automobile liquid polish. 278,143; Dec. 9; Serial No. 304,339; published Sept. 30, 1930. Class 16.
Mülhens, Paul P., doing business as Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Soaps. 278,249; Dec. 9; Serial No. 293,894; published Sept. 16, 1930. Class 4.
N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Electromedical apparatus. 278,248; Dec. 9; Serial No. 294,233; published Sept. 23, 1930. Class 44.
National Ring Traveler Co., Providence, R. I. Twister travelers. 278,230; Dec. 9; Serial No. 303,066; published Sept. 30, 1930. Class 23.
Nehi, Inc., Columbus, Ga. Maltless beverages and sirups and concentrates for making the same. 278,214; Dec. 9; Serial No. 289,320; published Nov. 12, 1929. Class 45.
No Ring Corporation, New York, N. Y. Cleaning fluid. 278,245; Dec. 9; Serial No. 296,712; published Sept. 23, 1930. Class 4.
Northwestern Chemical Co., The, Marietta, Ohio. Polish for automobiles and painted, varnished, and lacquered surfaces. 278,151; Dec. 9; Serial No. 303,485; published Sept. 23, 1930. Class 16.
Nuway Filter Company, Detroit, Mich. Filters. 278,190; Dec. 9; Serial No. 304,882; published Sept. 30, 1930. Class 31.
Oriental Show-You Company, Columbia City, Ind. Canned chop suey, noodles, bean sprouts, etc. 278,215; Dec. 9; Serial No. 295,807; published Sept. 16, 1930. Class 46.
Paramount Sales Co. (See Burks, Robert R.)
Parfumerie Roger et Gallet, Société Anonyme, Paris, France. Toilet soaps. 278,241; Dec. 9; Serial No. 298,410; published Sept. 23, 1930. Class 4.
Plattner, H. V., Kansas City, Mo. Prophylactic rubber goods. 278,188; Dec. 9; Serial No. 303,005; published Sept. 16, 1930. Class 44.
Powers, Patrick A., New York, N. Y. Motion-picture films. 278,200; Dec. 9; Serial No. 300,085; published July 15, 1930. Class 26.
Powers, Timothy B., New York, N. Y. Metal hand stamp. 278,173; Dec. 9; Serial No. 304,160; published Sept. 30. 1930. Class 23.
Price, David S., doing business as Sleep-Rite Belt Company, Scranton, Pa. Scientific sleeping belt. 278,140; Dec. 9; Serial No. 304,632; published Sept. 30, 1930. Class 44.
Prince Mfg. Co., The, Bowmanstown, Pa. Metallic paint. 278,167; Dec. 9; Serial No. 302,475; published Sept. 16, 1930. Class 16.
Pure Oil Company, The, Chicago, Ill. Solvent used in the manufacture of paints, etc. 278,158; Dec. 9; Serial No. 303,123; published Sept. 16, 1930. Class 16.
Ragovin, Harry, New York, N. Y. Vests, chemises, stepins, etc. 278,206; Dec. 9; Serial No. 302,023; published Sept. 16, 1930. Class 39.
Reiser, A. W., Manufacturing Company, New Philadelphia, Ohio. Vegetable-display stands. 278,222; Dec. 9; Serial No. 303,862; published Sept. 30, 1930. Class 32.
Rieck, Ernst C., doing business as E. C. Rieck Paint Co., Chicago, Ill. Ready-mixed paint, varnish, lacquers, etc. 278,150; Dec. 9; Serial No. 303,513; published Sept. 23, 1930. Class 16.
Roth Supply Co. Inc., New York, N. Y. Paint. 278,164; Dec. 9; Serial No. 302,794; published Sept. 16, 1930. Class 16.
San-Can-Seal Company, Long Beach, Calif. Combined can puncturing and sealing tools. 278,236; Dec. 9; Serial No. 302,482; published Sept. 30, 1930. Class 23.
Schaeffer, Louis M., doing business as General Sundries Co., Cleveland, Ohio. Prophylactic rubber articles. 278,141; Dec. 9; Serial No. 304,582; published Sept. 30, 1930. Class 44.
Sears, Roebuck and Co., Chicago, Ill. Shaving cream. 278,189; Dec. 9; Serial No. 302,042; published Sept. 16, 1930. Class 4.
Sherman, H. L., Boston, Mass. Citrus-fruit juices. 278,154; Dec. 9; Serial No. 303,350; published Sept. 16, 1930. Class 46.
Sherwin-Williams Company, The, Cleveland, Ohio. Paints, paint enamels, lacquers, etc. 278,147; Dec. 9; Serial No. 303,551; published Sept. 16, 1930. Class 16.
Silent Automatic Corporation, Detroit, Mich. Draft check dampers. 278,276; Dec. 9. Class 34.
Sleep-Rite Belt Company. (See Price, David S.)
Smith, T. L., Company, The. (See Koehring Company, assignor.)
Spark Electric Company, The, Kansas City, Mo. Sterilizer for sterilizing dental and surgical instruments. 278,185; Dec. 9; Serial No. 303,927; published Sept. 16, 1930. Class 44.
Stanley Works, The, New Britain, Conn. Rules. 278,196; Dec. 9; Serial No. 300,827; published Sept. 30, 1930. Class 26.
Stardant Rubber Company, Incorporated, The, Akron, Ohio. Prophylactic articles of rubber or animal tissue. 278,247; Dec. 9; Serial No. 295,241; published Sept. 16, 1930. Class 44.
Strouse-Baer Company, Inc., The, Baltimore, Md. Children's wash suits. 278,166; Dec. 9; Serial No. 302,557; published Sept. 16, 1930. Class 39.
Sturtevant, B. F., Company, Hyde Park, Boston, Mass. Heaters. 278,269; Dec. 9.
Suntex Chemical Co., Philadelphia, Pa. Cleaning and washing compound. 278,182; Dec. 9; Serial No. 303,556; published Sept. 23, 1930. Class 4.
Swift & Company, Chicago, Ill. Lamb, mutton, veal, and poultry, etc. 278,221; Dec. 9; Serial No. 300,686; published Aug. 26, 1930. Class 46.

Taylor Instrument Companies, Rochester, N. Y. Apparatus for measuring the temperature of the skin. 278,179; Dec. 9; Serial No. 304,895; published Sept. 30, 1930. Class 26.
Texas Fertilizer Company, Nacogdoches, Tex. Fertilizers. 278,243; Dec. 9; Serial No. 297,338; published Sept. 30, 1930. Class 10.
Thoro-Bred Rubber Mfg. Co., New York, N. Y. Prophylactic rubber articles. 278,142; Dec. 9; Serial No. 304,522; published Sept. 30, 1930. Class 44.
Toch Brothers, Inc., New York, N. Y. Paints, varnishes, and lacquers. 278,170; Dec. 9; Serial No. 301,730; published Sept. 23, 1930. Class 16.
Tomato Products Company, Paoli, Ind. Tomato paste, tomato purée, canned tomatoes, and tomato catsup. 278,275; Dec. 9. Class 46.
Tropical Paint and Oil Company, The, Cleveland, Ohio. Cleaner for cleaning tile, marble, cut glass, etc. 278,246; Dec. 9; Serial No. 295,767; published Sept. 16, 1930. Class 4.
United Artists Corporation, New York, N. Y. Motion pictures. 278,175; Dec. 9; Serial No. 304,525; published Sept. 30, 1930. Class 26.
United States Rubber Company, New York, N. Y. Boots. 278,234; Dec. 9; Serial No. 302,705; published Sept. 16, 1930. Class 39.
United States Rubber Company, New York, N. Y. Rubber tires and inner tubes. 278,257; Dec. 9; Serial No. 291,032; published Sept. 30, 1930. Class 35.
Universal Rayon Underwear Corporation, New York, N. Y. Underwear. 278,209; Dec. 9; Serial No. 293,611; published Aug. 26, 1930. Class 39.
Virginia Buffalo Springs Corporation, Buffalo Springs, Va. Spring water. 278,178; Dec. 9; Serial No. 302,848; published Aug. 5, 1930. Class 45.
Vosburg, Murray S., doing business as The Eusey Company, Los Angeles, Calif. Gelatine dessert powder. 278,261; Dec. 9. Class 46.
Whisko Company, Inc., The, Indianapolis, Ind. Shaving cream. 278,186; Dec. 9; Serial No. 303,673; published Sept. 16, 1930. Class 4.
Worthington Ball Company, The, Elyria, Ohio. Golf balls. 278,254; Dec. 9; Serial No. 274,999; published Sept. 23, 1930. Class 22.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS

Ailine, John L., Cleveland Heights, Ohio. Today's Fresh Bread. For Bread. 38,354; Dec. 9.
Arant, John E., Manning, S. C. Arant's Crack Shot. For Medicine. 38,355; Dec. 9.
California Grape Juice Corporation, St. Louis, Mo. The Good Luck Brand. For Sherry Beverage. 38,356; Dec. 9.
Casey, J. H., Portland, Oreg. Casey's Compound. For an Alterative Tonic. 38,357; Dec. 9.
Embossing Company, The. Albany, N. Y. Puzzle of Magic 16 and Fifteen. For Game Apparatus Employing a Graduated Board and Counters Therefor. 38,358; Dec. 9.
Fletcher, Henry M., Plainview, Tex. Dr. La Mond's Prescription. For a Preparation for Treating Nasal Catarrh, Hay Fever, Asthma, Tuberculosis. 38,359; Dec. 9.
Harris Caloritic Company, The. Cleveland, Ohio. Red Head No. 6 Portable Acetylene Generator. For Acetylene Generators. 38,360; Dec. 9.
Hoague-Sprague Corporation, Lynn, Mass. D. H. & G. H. Bell. For Boxes. 38,361; Dec. 9.
Midway Chemical Co., Chicago, Ill. Stovbrite. For Stove Polish. 38,362; Dec. 9.
Midway Chemical Co., Chicago, Ill. Roach Ded. For a Preparation for Killing Roaches. 38,363; Dec. 9.
Municipal Service Corporation, Los Angeles, Calif. Howard H. Jones Collegiate Football Game. For Football Game Board. 38,364; Dec. 9.
Oesterling, P. J., & Son Inc., Butler, Pa. Chikioh. For Poultry Medicine. 38,365; Dec. 9.
Rubber Oil Manufacturing Company, Aberdeen, Wash. Rubber Oil. For Shoe Oil. 38,366; Dec. 9.
Sawyer, Horace M., Texarkana, Tex. Saw Tone. For Medicinal Preparation. 38,367; Dec. 9.
Scott Paper Company, Chester, Pa. Waldorf. For Toilet Paper. 38,372; Dec. 9.
Standard Brands Incorporated, New York, N. Y. Fleischmann's Baking Powder. For Baking Powder. 38,368; Dec. 9.
Swearingen, Oscar E., Mattoon, Ill. Hop-Ball. For Game. 38,369; Dec. 9.
Vinco Manufacturing Co., Charlotte, N. C. Nox-Em-Out. For Insecticides. 38,370; Dec. 9.
Vita-Mint Inc., New York, N. Y. Vita-Mint Chewing Gum. For Chewing Gum. 38,371; Dec. 9.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS

Amperite Corporation, New York, N. Y. Instructions for Installing Amperite Line Voltage Control. For Line-Voltage Control Devices for Radio Sets. 12,854; Dec. 9.
Graff, George B., Company, Cambridge, Mass. It's a Good Rule That Works Both Ways. For Rulers. 12,855; Dec. 9.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

A. C. T. Shoe Lace Mfg. Co. (See Berkowitz, Joseph.)
Abelman, Max, doing business as M. Abelman Co., Boston, Mass. Paints and colors. 302,799; Dec. 9. Class 16.
Air-O-Cel, Inc., Detroit, Mich. Pocket-forming elements of pasteboard or other fibrous material. 302,451; Dec. 9. Class 12.
Allied Laboratories Inc., Chicago, Ill. Anti-hog-cholera serum. 298,302; Dec. 9. Class 6.
American Progress Co., Atlanti City, N. J. Powdered cleaning material. 299,297; Dec. 9. Class 4.
American Woolen Company, Boston, Mass. Textile carpet. 306,162; Dec. 9. Class 42.
Arden, Elizabeth, Inc., New York, N. Y. Empty compact cases. 306,388; Dec. 9. Class 2.
Arwell Products Co., Waukegan, Ill. Insecticide, moth fumigant. 288,051; Dec. 9. Class 6.
Associated Newspapers, The., New York, N. Y. Series of cartoons. 304,121; Dec. 9. Class 38.
Atlas Publishing Company, Inc., New York, N. Y. Magazine. 307,197; Dec. 9. Class 38.
Baby Grands, Inc., New York, N. Y. Textile diapers. 305,065; Dec. 9. Class 42.
Bafalis, Arthur J., doing business as The Dekola Co., Manchester, N. H. Liquid preparation used as a stomachic, tonic, etc. 307,467; Dec. 9. Class 6.
Barrett, Leon J., doing business as The Leon J. Barrett Company, Millbury, Mass. Oil extractors, washers, and dryers. 299,947; Dec. 9. Class 23.
Berkowitz, Joseph, doing business as A. C. T. Shoe Lace Mfg. Co., New York, N. Y. Shoe laces. 305,085; Dec. 9. Class 40.
Bliss Coal Company, Saginaw, Mich. Coal. 306,639; Dec. 9. Class 1.
Böhme, H. Th., A. G., Chemnitz, Germany. Hydrocarbons. 303,625; Dec. 9. Class 4.
Braintree Shoe Company. (See Shapiro, Samuel.)
Bronstein, L., & Co., Inc., New York, N. Y. Cheese. 307,251; Dec. 9. Class 46.
Brown Company, Portland, Me., and Berlin, N. H. Pine cones or similar articles for ornamental purposes. 306,851; Dec. 9. Class 50.
Bruno, Philip, doing business as Westchester Pharmacal Co., Tuckahoe, N. Y. Antiseptic dentrifice, mouth wash, and gargle. 307,090; Dec. 9. Class 6.
Canfield, Cornelia. (See Macknight, Hector, assignor.)
Chanel, Inc., New York, N. Y. Perfume. 301,042; Dec. 9. Class 6.
Chicago Flexible Shaft Company, Chicago, Ill. Electric waffle irons. 307,130; Dec. 9. Class 21.
Chicago Flexible Shaft Company, Chicago, Ill. Electrical toasters. 307,132; Dec. 9. Class 21.
Chicago Flexible Shaft Company, Chicago, Ill. Electrical food mixers, waffle irons, and clocks. 307,133; Dec. 9. Class 21.
Chicago Mail Order Company, Chicago, Ill. Children's shoes 306,342; Dec. 9. Class 39.
Chicago Pneumatic Tool Company, New York, N. Y. Gaskets, high-pressure hose. 303,265; Dec. 9. Class 35.
Clinchfield Coal Corporation, Dante, Va. Coal. 305,478; Dec. 9. Class 1.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Coleman Lamp and Stove Company, The, Wichita, Kans. Gasoline-burning lamps, lanterns, radiant heaters, and stoves. 304,801; Dec. 9. Class 34.
Conestoga Corporation, The, Bethlehem, Pa. Ammunition for toy cannon and firearms. 307,386; Dec. 9. Class 9.
Continental Steel Corporation, Kokomo and Indianapolis, Ind., and Canton, Ohio. Metal roofing. 304,001; Dec. 9. Class 12.
Copley Hat Company, Inc., New York, N. Y. Men's hats and caps. 306,770; Dec. 9. Class 39.
Corhart Refractories Company, Louisville, Ky. Building cement. 306,486; Dec. 9. Class 12.
Crystal Chemical Company, Inc., The, Bronx, N. Y. Face powders, rouges, face creams, and lip stick. 307,265; Dec. 9. Class 6.
Cumberland Hickory Co. (See Lyon, Norton C.)
Curatolo, Mark, doing business as Unique Metal Products Co., New York, N. Y. Dancing-tap attachment for shoes. 302,629; Dec. 9. Class 15.
Daniels, Claude H., Boston, Mass. Boots, shoes, and slippers, soles, and heels. 306,558; Dec. 9. Class 39.
Dartmoor Coat Co., Inc., The, New York, N. Y. Topcoats. 306,528; Dec. 9. Class 39.
Daub Chemical Company, Brooklyn, N. Y. Medicinal nasal jelly. 306,771; Dec. 9. Class 6.
Davidow, Wm. H., Sons Co., Inc., New York, N. Y. Wool fabric in the piece. 307,267; Dec. 9. Class 42.
Dekola Co., The. (See Bafalis, Arthur J.)
Denver Alfalfa Milling & Products Co., The, Lamar, Colo. Poultry meal. 307,313; Dec. 9. Class 46.
Destel and Drake, Los Angeles, Calif. Combined bread boxes and slicers. 305,606; Dec. 9. Class 23.
Diehl Manufacturing Company, Elizabeth, N. J. Electric fans. 307,156; Dec. 9. Class 21.
Diver, George C., doing business as Geo. C. Diver Music Co., Chicago, Ill. Band and wind musical instruments. 304,274; Dec. 9. Class 36.
Dixon, Joseph, Crucible Company, Jersey City, N. J. Pencils. 307,157; Dec. 9. Class 37.
Dodge & Olcott Company, New York, N. Y. Coffee flavors and coffee extracts for food-flavoring purposes and coffee substitutes. 303,762; Dec. 9. Class 46.
Douglis-Mack, Chas., Co., Inc., New York, N. Y. Two, three, and four piece suits, etc. 298,888; Dec. 9. Class 39.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Dyeing assistant. 307,348; Dec. 9. Class 6.
Dyal Produce Corp., New York, N. Y. Potatoes and onions. 305,927; Dec. 9. Class 46.
Eastman Kodak Company, Rochester, N. Y. Motion-picture projectors. 306,732; Dec. 9. Class 26.
Egan-Luth Bed Co. Inc., Buffalo, N. Y. Mattresses and box springs. 307,390; Dec. 9. Class 32.
Engel-Cohen, Joseph, Co., Inc., The, New York, N. Y. Coats and suits. 304,452; Dec. 9. Class 39.
Fabrik Chem. Pharm. Präparate Dallmann & Co., Wiesbaden-Schierstein, Germany. Pharmaceutical preparations. 301,869; Dec. 9. Class 6.
Fear, Fred, & Co., Brooklyn, N. Y. Flaked fish and table syrups. 306,488; Dec. 9. Class 46.
Federal Knitwear Co., Inc., Newark, N. J. Sweaters, dresses, and suits. 306,311; Dec. 9. Class 39.
Felder, William C., doing business as Trichicide Chemical Company, Dallas, Tex. Powder and ointment for the treatment of athlete's foot, dry tetter, etc. 306,812; Dec. 9. Class 6.
Ferro Machine & Foundry Company, The, Cleveland, Ohio. Liquid pumps. 305,104; Dec. 9. Class 23.
Florette Shoe Company, Inc., The, New York, N. Y. Women's shoes wholly or party made of leather. 307,137; Dec. 9. Class 39.
Ford Roofing Products Company, Incorporated, Chicago and Vandalia, Ill., and York, Pa. Composition roofing and composition shingles. 306,813; Dec. 9. Class 12.
Gage Publishing Co., Inc., The, New York, N. Y. Periodical. 306,312; Dec. 9. Class 38.
Garrette County Maple Products Association, The, Oakland, Md. Food products. 300,792; Dec. 9. Class 46.
Geiser, F. A., & H. Oppliger, Varese, Italy. Coffee substitute. 301,890; Dec. 9. Class 46.
Gibson, Wm., & Co., Ltd., Kinghorn, Scotland. Golf sticks and metal heads therefor. 304,766; Dec. 9. Class 22.
Gilbert, M., & Sons Co., South Bend, Ind. Men's suits, topcoats, and overcoats. 306,440; Dec. 9. Class 39.
Gilmer, L. H. Co., Philadelphia, Pa. Woven belts. 307,318; Dec. 9. Class 35.
Glenerry Woolen Co. (See Goldfine, Allen L.)
Goldblatt Bros., Inc., Chicago, Ill. Hosiery. 306,888; Dec. 9. Class 39.
Goldfine, Allen L., doing business as Glenerry Woolen Co., New York, N. Y. Woolen piece goods for suits and coats. 306,493; Dec. 9. Class 42.
Goldsmith Pickle Co., Chicago, Ill. Pickles, chowchow, sauerkraut, etc. 301,899; Dec. 9. Class 46.
Graton & Knight Company, Worcester, Mass. Machinery belting, diaphragms, discs, gaskets, etc. 303,051; Dec. 9. Class 35.
Grey Iron Casting Company, Mount Joy, Pa. Toy painting sets and objects to be painted. 297,305; Dec. 9. Class 22.
Halliburton, Orville G., Bridgeport, Conn. Electrical connecting plugs. 307,205; Dec. 9. Class 21.
Handy Governor Corporation, Detroit, Mich. Governors and oil filters. 306,057; Dec. 9. Class 23.
Harms, Margaret, doing business as Harms and Doney Company, Evanston, Ill. Vaginal suppositories. 301,913; Dec. 9. Class 6.
Haskell, William H., Manufacturing Company, Pawtucket, R. I. Machine bolts and stud bolts. 306,603; Dec. 9. Class 13.
Haskell, William H., Manufacturing Company, Pawtucket, R. I. Heat-treated nuts. 306,604; Dec. 9. Class 13.
Health Products Corporation, Newark, N. J. Cod-liver-oil concentrate. 307,139; Dec. 9. Class 6.
Hewes, Charles K. (See Mason, Landon R., assignor.)
Holt, Jared, Company, The, Albany, N. Y. Shoe oils, leather dressings, and polishes. 305,663; Dec. 9. Class 4.
Homes Permanesque of America, Inc., Cleveland, Ohio. Plans and specification for houses, books, and printed matter. 288,747; Dec. 9. Class 38.
Howard, J. W. & A. P., Company, Corry, Pa. Sole leather. 282,923; Dec. 9. Class 1.
Hoyt Brothers, Inc., Newark, N. J. Absorbent cotton, absorbent pads, surgical dressings, sanitary napkins, etc. 298,945; Dec. 9. Class 44.
Hughes Fawcett, Inc., New York, N. Y. Linen, cotton, and silk threads and yarns. 307,452; Dec. 9. Class 43.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Chemical product. 306,444; Dec. 9. Class 6.
Illinois Paint Works. (See Sears, Roebuck and Co.)
Industrial Products Company, Philadelphia, Pa. Linemen's tool bags. 306,299; Dec. 9. Class 2.
Insuline Corporation of America, New York, N. Y. Tone-control devices for electrical sound-producing instruments. 305,755; Dec. 9. Class 21.
Jacobson, Benno Y., New York, N. Y. Drinking flask. 290,958; Dec. 9. Class 2.
Jeffrey Manufacturing Co., The, Columbus, Ohio. Pulverizers and crushers. 306,816; Dec. 9. Class 23.
Jeffrey Manufacturing Co., The, Columbus, Ohio. Mining machines. 306,817; Dec. 9. Class 23.
Jenaer Glaswerk Schott & Gen., Jena, Germany. Raw glass for optical manufacture, glass rods, etc. 283,279; Dec. 9. Class 33.
Kaufman Bros., Underwear Co. Inc., New York, N. Y. Ladies' and children's woven and flat underwear. 306,894; Dec. 9. Class 39.
Kleer-Off Laboratory. (See Luithle, Christian F.)
Klein, Marcus M., doing business as Klein Mfg. Co., Long Beach, Calif. Liquid treatment for skin affections. 304,774; Dec. 9. Class 6.
Knox Hat Company, Inc., New York, N. Y. Felt hats for men. 306,535; Dec. 9. Class 39.
Koenig, Harry M., Milwaukee, Wis. Metal and fibre lamp shades. 306,650; Dec. 9. Class 34.
Krause, Rudolph A., Cedar Bluffs, Nebr. Electrically-operated direction-indicating signals. 306,402; Dec. 9. Class 21.
Kuppenheimer, B., & Co. Inc., Chicago, Ill. Ready-to-wear coats, vests, trousers, and overcoats. 299,328; Dec. 9. Class 39.
Lawson, H. W. Manufacturing Company, Los Angeles, Calif. Dresses. 305,486; Dec. 9. Class 39.
Lee, Edwin A., Philadelphia, Pa. Hosiery. 305,575; Dec. 9. Class 39.
Link-Belt Company, Chicago, Ill. Take-ups, screw take-ups, and parts thereof. 306,609; Dec. 9. Class 23.
Locoa Company, Inc., Tampa, Fla. Ice cream and candy. 298,578; Dec. 9. Class 46.
Luithle, Christian F., doing business as Kleer-Off Laboratory, New York, N. Y. Depilatory. 306,337; Dec. 9. Class 6.
Lyon, Norton C., doing business as Cumberland Hickory Co., Nashville, Tenn. Golf shafts, golf heads, baseball bats, etc. 302,411; Dec. 9. Class 22.
Macknight, Hector, assignor to Cornelia Canfield, East Orange, N. J. Bathroom cabinets. 291,128; Dec. 9. Class 32.
Macvarish, John P., doing business as Macvarish Manufacturing Company, Harrisburg, Pa. Medicine for constipation. 305,974; Dec. 9. Class 6.
Majestic Household Utilities Corporation, Chicago, Ill. Electric refrigerators and parts thereof. 301,665–6; Dec. 9. Class 31.
Mari-Trudeau, Incorporated, St. Paul, Minn. Cosmetics. 307,211; Dec. 9. Class 6.
Mason, Landon R., doing business as Universal Asphalt Co., Watson, assignor to Charles K. Hewes, Los Angeles, Calif. Asphalt cementing agent. 303,972; Dec. 9. Class 12.
Mayflower's Log, Inc., Washington, D. C. Periodical. 295,955; Dec. 9. Class 38.
McGean Chemical Company, Cleveland, Ohio. Electroplating anodes. 297,609; Dec. 9. Class 14.
Menasco Motors, Inc., Los Angeles, Calif. Internal-combustion engine. 306,611–13; Dec. 9. Class 23.
Micro Products Co., Bartonville, Peoria, Ill. Electric welders. 305,785; Dec. 9. Class 21.
National Bank of the Republic of Chicago, The, Chicago, Ill. Publication. 307,169; Dec. 9. Class 38.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

National Bellas Hess Co. Inc., New York, N. Y. Hosiery. 306,616; Dec. 9. Class 39.
National Brokerage Company, Inc., Chicago, Ill. Whiskey. 307,009; Dec. 9. Class 49.
National Canners Association, Wilmington, Del., and Washington, D. C. Canned fruits and vegetables, etc. 305,052; Dec. 9. Class 46.
National Selectograph Corporation, San Francisco, Calif. Index cards, cards and forms used to carry record data thereon. 300,537; Dec. 9. Class 37.
Neahr, M. J., & Company, Chicago, Ill. Burlap bags. 307,057; Dec. 9. Class 2.
Newberg & Goranson, Brooklyn, N. Y. Antirheumatic salve. 306,414; Dec. 9. Class 6.
New Idea Spreader Company, The, Coldwater, Ohio. Manure spreaders, cultivators, land rollers, etc. 305,872; Dec. 9. Class 23.
New Orleans Coffee Company, Ltd., New Orleans, La. Compounds of coffee and chicory and compounds of coffee, chicory, and cereal. 306,415; Dec. 9. Class 46.
New Orleans Paint & Color Company, Incorporated, New Orleans, La. Paints and varnishes. 306,321; Dec. 9. Class 16.
Newspaper Nature Features, Inc., Cleveland, Ohio. Set of nature cartoons. 299,217; Dec. 9. Class 38.
Old Colony Gas and Oil Co. (See Prestholdt, Henry L.)
Oliver Brothers, Philadelphia, Pa. Women's hosiery. 305,788; Dec. 9. Class 39.
Orange-Crush Company, Chicago, Ill. Nonalcoholic beverages, syrups, etc. 303,652; Dec. 9. Class 45.
Palace Clothing Co., The, Kansas City, Mo. Suits and overcoats. 306,458; Dec. 9. Class 39.
Palinkos, Stephen J., South Norwalk, Conn. Ladies' furfelt hats. 307,103; Dec. 9. Class 39.
Palmer Electric & Manufacturing Co., The, Waltham, Mass. Electric switches. 297,617; Dec. 9. Class 21.
Paragon-Kōl-Master Corporation, Oregon, Ill. Automatic coal burner and stokers. 304,629; Dec. 9. Class 34.
Penney, J. C., Company, Wilmington, Del. Golf balls, golf clubs, and golf bags. 307,463; Dec. 9. Class 22.
Pepe, Frank, Macaroni Co., Inc., The, Waterbury, Conn. Egg noodles. 306,573; Dec. 9. Class 46.
Philippi, S., Scio, Oreg. Leach and worm medicine for animals. 306,014; Dec. 9. Class 6.
Phillips & Buttorff Mfg. Co., Nashville, Tenn. Gas ranges, gas cookers, gas hot plates, etc. 306,836; Dec. 9. Class 34.
Pierre Process, Inc., New York, N. Y. Hair rinses. 304,971; Dec. 9. Class 6.
Prestholdt, Henry L., doing business as Old Colony Gas and Oil Co., Minneapolis, Minn. Gasoline. 291,575; Dec. 9. Class 15.
Prima Manufacturing Company, Inc., Sidney, Ohio. Washing machines. 306,660; Dec. 9. Class 24.
Princess Fat Products Limited, Toronto, Ontario, Canada. Hair nets. 306,106; Dec. 9. Class 42.
Propper-McCallum Hosiery Co., Inc., New York, N. Y. Hosiery. 306,661; Dec. 9. Class 39.
Ramos, Nemesio M., San Francisco, Calif. Game boards. 303,821; Dec. 9. Class 22.
Read-A-Ray Co., Lima, Ohio. Supplies for X-ray machines. 306,417; Dec. 9. Class 44.
Reichmann, Frank J., Chicago, Ill. Loud-speakers and radio receiving sets. 306,964; Dec. 9. Class 21.
Respro, Inc., Cranston, R. I. Artificial leather. 296,239; Dec. 9. Class 50.
Roma Importing Co., Inc., Waterbury, Conn. Salad oil and wheat flour. 303,787; Dec. 9. Class 46.
Rosen, Sam, doing business as Twin Rock Bottling Company, Baltimore, Md. Nonalcoholic maltless beverages, syrups and concentrates. 306,901; Dec. 9. Class 45.
Rossi, Peter, & Sons, Braidwood, Ill. Alimentary pastes. 306,367; Dec. 9. Class 46.
Royal Baking Powder Company, New York, N. Y. Baking powder. 307,424; Dec. 9. Class 6.
Rubin Bros. Foot-Wear, Long Island City, N. Y. Leather shoes. 298,663; Dec. 9. Class 39.
Russell Manufacturing Company, The, Middletown, Conn. Rivets. 307,113; Dec. 9. Class 13.
Schwartz, Chas., & Son, Washington, D. C. Rings, lockets, jewel boxes, etc. 306,786; Dec. 9. Class 28.
Seabright, Louis, Rayland, Ohio. Kidney medicine. 301,516; Dec. 9. Class 6.
Sears, Roebuck and Co., doing business as Illinois Paint Works, Chicago, Ill. Paints, shingle stain, lacquers, etc. 307,430; Dec. 9. Class 16.
Shapiro, Samuel, doing business as Braintree Shoe Co., South Braintree, Mass. Boots and shoes. 305,588; Dec. 9. Class 39.
Sher, Noah P., Rochester, N. Y. Vehicle parts and accessories. 285,754; Dec. 9. Class 19.
Sigma Delta Chi, Chicago, Ill. Magazine. 306,802; Dec. 9. Class 38.
Siliko Hosiery Co., Inc., Philadelphia, Pa. Hosiery. 306,422; Dec. 9. Class 39.
Silvertex Company, The, Philadelphia, Pa. Suits, coats, knickers, and vests. 305,943; Dec. 9. Class 39.
Simplex Equipment Company, Inc., New Haven, Conn. and New York, N. Y. Electric generators, storage batteries, etc. 268,399; Dec. 9. Class 21.
Simplex Piston Ring Co. of America, Inc., The, Cleveland, Ohio. Piston rings. 307,222; Dec. 9. Class 35.
Société Anonyme M. Naef & Cie., Geneva, Switzerland. Perfumes, essential oils. 307,063–4; Dec. 9. Class 6.
Spierer, Léon, Trieste, Italy. Tobacco leaves. 296,453; Dec. 9. Class 17.
Springfield Mattress Company, The, Springfield, Ill. Mattresses and box springs. 291,364; Dec. 9. Class 32.
Stadelman, Germain H., Jamaica, N. Y. Polish. 307,066; Dec. 9. Class 16.
Stafford County Flour Mills Co., Hudson, Kans. Wheat flour. 306,425; Dec. 9. Class 46.
Stanco Incorporated, Wilmington, Del., and New York, N. Y. Polish. 305,290; Dec. 9. Class 16.
Stanco Incorporated, Wilmington, Del., and New York, N. Y. Polish. 305,292; Dec. 9. Class 16.
Standard Brands Incorporated, Dover, Del.; Cincinnati, Ohio; and New York, N. Y. Frozen eggs. 292,468; Dec. 9. Class 46.
Standard Brands Incorporated, New York, N. Y. Coffee. 303,399–400; Dec. 9. Class 46.
Standard Brands Incorporated, New York, N. Y. Coffee. 305,823–4; Dec. 9. Class 46.
Standard Oil Company of New Jersey, Wilmington, Del. Oils and greases. 298,766; Dec. 9. Class 15.
Stevens, J. & E., Company, Cromwell, Conn. Repeating toy cap pistols. 295,816; Dec. 9. Class 22.
Stivers, Theo., Milling Company, Rome, Ga. Wheat flour. 307,228; Dec. 9. Class 46.
Stowe & Woodward Company, Newton Upper Falls, Mass. Rolls for machinery. 307,461; Dec. 9. Class 23.
Sturtevant, B. F., Company, Hyde Park, Boston, Mass. Air-conditioning apparatus. 299,813; Dec. 9. Class 34.
Sun Glow Industries, Inc., Mansfield, Ohio. Radio receiving sets. 306,872; Dec. 9. Class 21.
Superior Sheet Steel Company, The, Canton, Ohio. Coated iron or steel sheets. 303,557; Dec. 9. Class 14.
Thoma Glass Inc., Fairfield, Iowa. Glass. 302,088; Dec. 9. Class 33.
Titus, Victor W., New York, N. Y. Massage cream. 297,631; Dec. 9. Class 6.
Trichicide Chemical Company. (See Felder, William C.)
Tru-Blu Biscuit Company, also doing business as Tru-Blu, Spokane, Wash. Candies. 303,703; Dec. 9. Class 46.
Turner & Porter, Inc., Buffalo, N. Y. Greeting cards. 298,916; Dec. 9. Class 38.
Unique Metal Products Co. (See Curatolo, Mark.)
United Wall Paper Factories, Inc., Jersey City, N. J. Wall paper. 307,185; Dec. 9. Class 37.
Universal Asphalt Co. (See Mason, Landon R.)
Valentine & Company, New York, N. Y. Paints. 304,840; Dec. 9. Class 16.
Vogt, F. G., & Sons, Incorporated, Philadelphia, Pa. Meat products. 305,425; Dec. 9. Class 46.
Von Benz Bretherton, Fred G. E., La Crecenta, Calif. Medicinal preparation. 305,987; Dec. 9. Class 6.
Ware Manufacturing Corporation, Trenton, N. J. Radio receiving sets. 306,112; Dec. 9. Class 21.
Washington Dehydrated Food Company, Yakima, Wash. Evaporated apples. 307,235; Dec. 9. Class 46.
Waterbury Tool Company, The, Waterbury, Conn. Hydraulic gears and parts therefor. 306,984; Dec. 9. Class 23.
Watrola Corporation, Ltd., San Francisco, Calif. Gas water heater. 307,335; Dec. 9. Class 34.
Westchester Pharmacal Co. (See Bruno, Philip.)
Wheeler, Osgood Company, The, Tacoma, Wash. Millwork. 306,378; Dec. 9. Class 12.
Wheeling Corrugating Co., Wheeling, W. Va. Sheet-metal watering pots. 306,908; Dec. 9. Class 2.
Whipple Company, The, Natick, Mass. Fountain syrups for making soft drinks. 304,025; Dec. 9. Class 45.
Whitney-Eckstein Seed Co., The, Buffalo, N. Y. Seeds, seed grains, and mixtures thereof. 305,429; Dec. 9. Class 1.
Willis, Charles L., New York, N. Y. Packing of various sizes in lengths. 306,218; Dec. 9. Class 35.
Wimelbacher & Rice, New York, N. Y. Gloves. 306,116; Dec. 9. Class 39.
Zacharoff, Morris, New York, N. Y. Shoes. 302,450; Dec. 9. Class 39.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Casein. Crawford, Keen & Co. 278,219; Dec. 9; Serial No. 300,564; published Sept. 23, 1930.
Coal. Dickinson Fuel Company. 278,259; Dec. 9.

CLASS 4

Cleaner, Diamond. J. H. Heiman. 278,155; Dec. 9. Serial No. 303,248; published Sept. 16, 1930.
Cleaner for cleaning tile, marble, linoleum, etc. Tropical Paint and Oil Company. 278,246; Dec. 9; Serial No. 295,767; published Sept. 16, 1930.
Cleaning and washing compound. Suntex Chemical Co. 278,182; Dec. 9; Serial No. 303,556; published Sept. 23, 1930.
Cleaning fluid. No Ring Corporation. 278,245; Dec. 9; Ser. No. 296,712; published Sept. 23, 1930.
Cream, Shaving. Sears, Roebuck and Co. 278,189; Dec. 9; Serial No. 302,042; published Sept. 16, 1930.
Cream, Shaving. Whisko Company. 278,186; Dec. 9; Serial No. 296,712; published Sept. 23, 1930.
Dressing and polish, Shoe. Henderson Bros. Corporation. 278,184; Dec. 9; Serial No. 304,008; published Sept. 16, 1930.
Polish, brass polish, liquid soap, etc., Bar. Chicago Sanitary Products Co. 278,268; Dec. 9.
Soap flakes. Mitchell Wing Company. 278,183; Dec. 9; Serial No. 304,060; published Sept. 23, 1930.
Soap powder. Minnesota Chemical Co. 278,187; Dec. 9; Serial No. 303,603; published Sept. 16, 1930.
Soaps. P. P. Mülhens. 278,249; Dec. 9; Serial No. 293,894; published Sept. 16, 1930.
Soaps, Liquid. W. H. & F. Jordan, Jr., Mfg. Co. 278,198; Dec. 9; Serial No. 300,132; published Sept. 16, 1930.
Soaps, Toilet. Parfumerie Roger et Gallet, Société Anonyme. 278,241; Dec. 9; Serial No. 298,410; published Sept. 23, 1930.

CLASS 7

Cord and clothesline, Sash. Icard Cordage Company. 278,224; Dec. 9; Serial No. 303,717; published Sept. 30, 1930.

CLASS 8

Cigarette-package-holding case. J. E. Mergott Company. 278,262; Dec. 9.

CLASS 9

Matches. Biddle Purchasing Co. 278,181; Dec. 9; Serial No, 304,794; published Sept. 30, 1930.

CLASS 10

Fertilizers. Texas Fertilizer Company. 278,243; Dec. 9; Serial No. 297,338; published Sept. 30, 1930.

CLASS 12

Building paper, Weatherproofed. Creo-Dipt Company. 278,227; Dec. 9; Serial No. 303,466; published Sept. 23, 1930.
Cement, Slag puzzolan. Cheney Lime & Cement Company. 278,237; Dec. 9; Serial No. 303,998; published Sept. 23, 1930.
Coloring material. Alabastine Company. 278,233; Dec. 9; Serial No. 302,880; published Sept. 16, 1930.
Coverings for the walls of buildings, Outside. Logan-Long Company. 278,228; Dec. 9; Serial No. 303,380; published Sept. 23, 1930.
Fibre board, Acoustical. Chicago Mill and Lumber Corporation. 278,202; Dec. 9; Serial No. 303,999; published Sept. 23, 1930.
Masonry blocks, Covell Corporation. 278,244; Dec. 9; Serial No. 297,242; published Sept. 23, 1930.
Plaster and insulating board. Flax-li-num Insulating Company. 278,231; Dec. 9; Serial No. 302,999; published Sept. 23, 1930.
Plaster, Patching. Alabastine Company. 278,232; Dec. 9; Serial No. 302,881; published Sept. 16, 1930.

CLASS 13

Tire-inflating devices. Aerometric Valve Corporation. 278,256; Dec. 9; Serial No. 292,861; published June 10, 1930.
Wire fence and barbed wire. Mid-States Steel & Wire Co. 278,265; Dec. 9.

CLASS 14

Wire. Mid-States Steel & Wire Co. 278,266; Dec. 9.

CLASS 15

Candles. Emery Industries, Inc. 278,272; Dec. 9.

CLASS 16

Dressing, Floor. American Disinfecting Company. 278,149; Dec. 9; Serial No. 303,526; published Sept. 23, 1930.
Filler, primer, sealer, or suction stopper, wood stainers, paint enamels, etc. Krenter-Faasen Company. 278,218; Dec. 9; Serial No. 299,394; published Sept. 16, 1930.

Paint. R. F. Johnston Paint Company. 278,152; Dec. 9; Serial No. 303,480; published Sept. 16, 1930.
Paint. Roth Supply Co. Inc. 278,164; Dec. 9; Serial No. 302,794; published Sept. 16, 1930.
Paint, Dry. American Cement Paint Company. 278,162; Dec. 9; Serial No. 302,985; published Sept. 23, 1930.
Paint, Metallic. Prince Mfg. Co. 278,167; Dec. 9; Serial No. 302,475; published Sept. 16, 1930.
Paint, Plastic. H. W. Herwig. 278,211; Dec. 9; Serial No. 295,028; published Mar. 11, 1930.
Paint, varnish, lacquers, etc., Ready-mixed. E. C. Rieck. 278,150; Dec. 9; Serial No. 303,513; published Sept. 23, 1930.
Paints, paint enamels, lacquers, etc. Sherwin-Williams Company. 278,147; Dec. 9; Serial No. 303,551; published Sept. 16, 1930.
Paints, varnishes, and lacquers. Toch Brothers, Inc. 278,170; Dec. 9; Serial No. 301,730; published Sept. 23, 1930.
Painter's size. Alabastine Company. 278,163; Dec. 9; Serial No. 302,879; published Sept. 16, 1930.
Polish, Automobile liquid. W. Mnesse. 278,148; Dec. 9; Serial No. 304,339; published Sept. 30, 1930.
Polish for automobiles and painted, varnished, and lacquered surfaces. Northwestern Chemical Co. 278,151; Dec. 9; Serial No. 303,485; published Sept. 23, 1930.
Polish having incidental cleansing properties. C. Little. 278,157; Dec. 9; Serial No. 303,194; published Sept. 16, 1930.
Sizing for walls, Painter's. American Cement Paint Company. 278,161; Dec. 9; Serial No. 302,986; published Sept. 30, 1930.
Solvent used in the manufacture of paints, etc. Pure Oil Company. 278,158; Dec. 9; Serial No. 303,123; published Sept. 16, 1930.
Varnish and wax. Floor preparation comprising. Federal Research Corporation. 278,153; Dec. 9; Serial No. 303,371; published Sept. 16, 1930.
Varnish, Textile roller. Glosso Varnish Company. 278,144; Dec. 9; Serial No. 304,197; published Sept. 23, 1930.
Wax, Liquid. Miracul Wax Co. 278,212; Dec. 9; Serial No. 295,345; published Sept. 23, 1930.
Wax, prepared wax paste, etc., Polishing. W. B. Fuller & Co. 278,194; Dec. 9; Serial No. 285,970; published Sept. 16, 1930.

CLASS 21

Electrical filters for use on radio sets. Cornell Electric Manufacturing Co. Inc. 278,260; Dec. 9.

CLASS 22

Balls, Golf. Worthington Ball Company. 278,254; Dec. 9; Serial No. 274,999; published Sept. 23, 1930.
Golf courses and component parts thereof, Miniature. Lucky Strike Golf Courses. 278,238; Dec. 9; Serial No. 303,970; published Sept. 23, 1930.
Toy model airplanes and model-airplane supplies. J. N. Loughner. 278,205; Dec. 9; Serial No. 302,220; published Sept. 16, 1930.

CLASS 23

Airplane motors. Motor-Cars and Aero-Motors Company Ltd. J. Walter & Co. 278,271; Dec. 9.
Blades, Razor. International Safety Razor Corp. 278,180 Dec. 9; Serial No. 304,819; published Sept. 30, 1930.
Concrete-mixing machines. Koehring Company. 278,263; Dec. 9.
Flue expanders for steam boilers. J. Faessler Mfg. Company. 278,176; Dec. 9; Serial No. 304,278; published Sept. 30, 1930.
Pumps, saw tables and rigs, Liquid. Chain Belt Company. 278,177; Dec. 9; Serial No. 304,187; published Sept. 30, 1930.
Screw-conveying apparatus and parts thereof. Clark Tructractor Company. 278,204; Dec. 9; Serial No. 304,038; published Sept. 30, 1930.
Sharpeners, Razor-blade. Hone-It Manufacturing Co. 278,220; Dec. 9; Serial No. 303,476; published Sept. 30, 1930.
Stalk cutters, plow stocks, and guano distributors. E. N. Camp & Sons Co. 278,274; Dec. 9.
Stamp, Metal hand. T. B. Powers. 278,173; Dec. 9; Serial No. 304,160; published Sept. 30, 1930.
Tools, Combined can puncturing and sealing. San-Can-Seal Company. 278,236; Dec. 9; Serial No. 302,482; published Sept. 30, 1930.
Twister travelers. National Ring Traveler Co. 278,280; Dec. 9; Serial No. 303,066; published Sept. 30, 1930.

CLASS 26

Films, Motion-picture. P. A. Powers. 278,200; Dec. 9; Serial No. 300,085; published July 15, 1930.
Measuring glasses. Independent Druggists' Alliance Distributing Co. 278,240; Dec. 9. Serial No. 303,899; published Sept. 30, 1930.

CHANLOR LIBRARY OF ATLANTA

Measuring the temperature of the skin, Apparatus for. Taylor Instrument Companies. 278,179; Dec. 9; Serial No. 304,895; published Sept. 30, 1930.
Microscopes. Bausch & Lomb Optical Company. 278,174; Dec. 9; Serial No. 304,792; published Sept. 30, 1930.
Pictures, Motion. United Artists Corporation. 278,175; Dec. 9; Serial No. 304,525; published Sept. 30, 1930.
Rulers, calculating rules, squares, etc. J. W. Guttknecht. 278,242; Dec. 9; Serial No. 298,393; published Sept. 30, 1930.
Rules. Stanley Works. 278,196; Dec. 9; Serial No. 300,827; published Sept. 30, 1930.
Testing instruments, Electrical. Jewell Electrical Instrument Co. 278,270; Dec. 9.

CLASS 31

Filters. Nuway Filter Company. 278,190; Dec. 9; Serial No. 304,882; published Sept. 30, 1930.
Refrigerators, Commercial ice boxes, water coolers, etc., Domestic. Federal Metal Products Corporation. 278,191; Dec. 9; Serial No. 304,859; published Sept. 30, 1930.

CLASS 32

Display stands, Vegetable-. A. W. Reiser Manufacturing Company. 278,222; Dec. 9; Serial No. 303,862; published Sept. 30, 1930.

CLASS 34

Dampers, Draft-check. Silent Automatic Corporation. 278,276; Dec. 9.
Heaters. B. F. Sturtevant Company. 278,269; Dec. 9.

CLASS 35

Tires and inner tubes. United States Rubber Company. 278,257; Dec. 9; Serial No. 291,032; published Sept. 30, 1930.

CLASS 39

Boots. United States Rubber Company. 278,234; Dec. 9; Serial No. 302,705; published Sept. 16, 1930.
Boots and shoes, Leather. Commonwealth Shoe and Leather Company. 278,235; Dec. 9; Serial No. 302,571; published Sept. 16, 1930.
Coats, pants, vests, etc. S. M. Flickinger Co. 278,207; Dec. 9; Serial No. 301,258; published Sept. 16, 1930.
Corsets, corselets, brassières and girdles. L. Brill. 278,223; Dec. 9; Serial No. 303,835; published Sept. 16, 1930.
Hats and caps. Evergreen California Hats, Inc. 278,208; Dec. 9; Serial No. 301,167; published Sept. 16, 1930.
Hats, Men's. American Hat Co. Inc. 278,239; Dec. 9; Serial No. 303,939; published Sept. 16, 1930.
Outsoles for boots and shoes. Hagerstown Shoe & Legging Co. 278,267; Dec. 9.
Shirts. J. H. Bonck Co. 278,168; Dec. 9; Serial No. 302,299; published Sept. 16, 1930.
Shoes. C. L. Bower. 278,201; Dec. 9; Serial No. 299,040; published Sept. 16, 1930.
Shoes. R. H. Macy & Co. 278,229; Dec. 9; Serial No. 303,195; published Sept. 16, 1930.
Shoes, Women's. Frederick Loeser & Co. Inc. 278,225; Dec. 9; Serial No. 303,645; published Sept. 16, 1930.
Soles and heels, Rubber. Essex Rubber Company Inc. 278,203; Dec. 9; Serial No. 304,045; published Sept. 16, 1930.
Suits, Children's wash. Strouse-Baer Company. 278,166; Dec. 9; Serial No. 302,557; published Sept. 16, 1930.
Underwear. Universal Rayon Underwear Corporation. 278,209; Dec. 9; Serial No. 293,611; published Aug. 26, 1930.
Vests, chemises, step-ins, etc. H. Ragovin. 278,206; Dec. 9; Serial No. 302,023; published Sept. 16, 1930.

CLASS 42

Woolen piece goods. Forstmann & Huffmann Company. 278,273; Dec. 9.

CLASS 44

Arch braces. Jung Arch Brace Company. 278,197; Dec. 9; Serial No. 300,283; published Sept. 23, 1930.
Atomizers, Perfume. Evans Case Company. 278,148; Dec. 9; Serial No. 303,533; published Sept. 16, 1930.
Electrical apparatus for assisting persons with defective hearing. Adlanco Industrial Products Corporation. 278,199; Dec. 9; Serial No. 299,881; published Sept. 23, 1930.
Electromedical apparatus. N. V. Philips' Gloeilampenfabrieken. 278,248; Dec. 9; Serial No. 294,233; published Sept. 23, 1930.
Prophylactic articles of rubber or animal tissue. Stardant Rubber Company. 278,247; Dec. 9; Serial No. 295,241; published Sept. 16, 1930.
Prophylactic rubber articles. L. Hilsenbeck, Inc. 278,195; Dec. 9; Serial No. 300,871; published Sept. 16, 1930.
Prophylactic rubber articles. L. M. Schaeffer. 278,141; Dec. 9; Serial No. 304,582; published Sept. 30, 1930.
Prophylactic rubber articles. Thoro-Bred Rubber Mfg. Co. 278,142; Dec. 9; Serial No. 304,522; published Sept. 30, 1930.
Prophylactic rubber goods. R. R. Burks. 278,156; Dec. 9; Serial No. 303,245; published Sept. 30, 1930.
Prophylactic rubber goods. H. V. Plattner. 278,188; Dec. 9; Serial No. 303,005; published Sept. 16, 1930.
Scientific sleeping belt. D. S. Price. 278,140; Dec. 9; Serial No. 304,632; published Sept. 30, 1930.
Sterilizer for sterilizing dental and surgical instruments. Spark Electric Company. 278,185; Dec. 9; Serial No. 303,927; published Sept. 16, 1930.

CLASS 45

Beverages and sirups and concentrates for making the same, Maltless. Nehi, Inc. 278,214; Dec. 9; Serial No. 289,320; published Nov. 12, 1929.
Beverages and syrups and extracts for making the same, Maltless. Chesterman Co. 278,192; Dec. 9; Serial No. 304,533; published Sept. 30, 1930.
Beverages, syrups and extracts therefor. Blue Seal Extract Company. 278,193; Dec. 9; Serial No. 288,269; published Nov. 26, 1929.
Water, Spring. Virginia Buffalo Springs Corporation. 278,178; Dec. 9; Serial No. 302,843; published Aug. 5, 1930.

CLASS 46

Alimentary pastes. Kansas City Macaroni & Importing Co. 278,251; Dec. 9; Serial No. 280,499; published Sept. 16, 1930.
Biscuits. McCormick Mfg. Co. Limited. 278,216; Dec. 9; Serial No. 295,855; published Sept. 16, 1930.
Cake confections. H. C. Brill Company. 278,252; Dec. 9; Serial No. 279,516; published Apr. 9, 1929.
Cake confections. H. C. Brill Company. 278,253; Dec. 9; Serial No. 278,454; published Aug. 6, 1929.
Cake icing. Adolf J. Mainzer Inc. 278,146; Dec. 9; Serial No. 303,509; published Sept. 16, 1930.
Canned chop suey, noodles, bean sprouts, etc. Oriental Show-You Company. 278,215; Dec. 9; Serial No. 295,807; published Sept. 16, 1930.
Canned meats, sliced dried beef, canned corned-beef hash, etc. John Cook & Sons, Inc. 278,264; Dec. 9.
Canned spaghetti. Isleton Canning Co. 278,217; Dec. 9; Serial No. 298,498; published Sept. 16, 1930.
Canned tomato paste and canned tuna fish. Joseph Antognoli & Company. 278,258; Dec. 9; Serial No. 290,112; published Sept. 16, 1930.
Coconut hard butter. Spencer Kellogg and Sons, Inc. 278,160; Dec. 9; Serial No. 303,070; published Sept. 16, 1930.
Coffee, tea, and rice. Samuel S. Beard & Company. 278,160; Dec. 9; Serial No. 303,070; published Sept. 16, 1930.
Confections, Frozen. Hydrice Corporation. 278,210; Dec. 9; Serial No. 294,725; published Sept. 16, 1930.
Fruit juices, Citrus-. H. L. Sherman. 278,154; Dec. 9; Serial No. 303,350; published Sept. 16, 1930.
Gelatine dessert powder. M. S. Vosburg. 278,261; Dec. 9.
Glucose or corn syrup. Corn Products Refining Company. 278,159; Dec. 9; Serial No. 303,094; published Sept. 16, 1930.
Ice cream. D. Levinson. 278,172; Dec. 9; Serial No. 301,116; published Sept. 16, 1930.
Ice-cream confection. Gould Select Dairies, Inc. 278,169; Dec. 9; Serial No. 302,143; published Sept. 16, 1930.
Ice-cream sandwich wafers. General Cone Corporation. 278,171; Dec. 9; Serial No. 301,260; published Sept. 23, 1930.
Jellies, fruit butters, maple syrup, etc. Blanke-Baer Extract and Preserving Company. 278,277; Dec. 9.
Lamb, mutton, veal, etc. Swift & Company. 278,221; Dec. 9; Serial No. 300,686; published Aug. 26, 1930.
Mayonnaise and sandwich spread. Blue Plate Foods Inc. 278,165; Dec. 9; Serial No. 302,764; published Sept. 23, 1930.
Mayonnaise or salad dressing. M. E. Febr. 278,145; Dec. 9; Serial No. 303,534; published Sept. 16, 1930.
Sardines, herring, kipper snacks, etc. A/S United Sardine Factories. 278,213; Dec. 9; Serial No. 295,413; published Sept. 23, 1930.
Syrup, Malt. Hancock-Nelson Mercantile Company. 278,278; Dec. 9.
Syrup, Malt. M. Mercurio. 278,220; Dec. 9; Serial No. 300,643; published Sept. 16, 1930.
Syrups. J. V. Hughes. 278,250; Dec. 9; Serial No. 282,990; published Sept. 16, 1930.
Tomato paste, tomato purée, canned tomatoes, and tomato catsup. Tomato Products Company. 278,275; Dec. 9.

ALPHABETICAL LIST OF LABELS

Arant's Crack Shot. For Medicine. J. E. Arant. 38,355; Dec. 9.
Casey's Compound. For an Alterative Tonic. J. H. Casey. 38,357; Dec. 9.
Chikloh. For Poultry Medicine. P. J. Oesterling & Son Inc. 38,365; Dec. 9.

D. H. & G. H. Bell. For Boxes. Hoague-Sprague Corporation. 38,361; Dec. 9.
Dr. La Mond's Prescription. For a Preparation for Treating Nasal Catarrh, Hay Fever, Asthma, Tuberculosis. H. M. Fletcher. 38,359; Dec. 9.
Fleischmann's Baking Powder. For Baking Powder. Standard Brands Incorporated. 38,368; Dec. 9.

Hop-Ball. For Game. O. E. Swearingen. 38,369; Dec. 9.
Howard H. Jones Collegiate Football Game. For Football Game Board. Municipal Service Corporation. 38,364; Dec. 9.
Nox-Em-Out. For Insecticides. Vinco Manufacturing Co. 38,370; Dec. 9.
Puzzle of Magic 16 and Fifteen. For Game Apparatus Employing a Graduated Board and Counters Therefor. Embossing Company. 38,358; Dec. 9.
Red Head No. 6 Portable Acetylene Generator. For Acetylene Generators. Harris Calorific Company. 38,360; Dec. 9.
Roach Ded. For a Preparation for Killing Roaches. Midway Chemical Co. 38,363; Dec. 9.
Rubber Oil. For Shoe Oil. Rubber Oil Manufacturing Company. 38,366; Dec. 9.
Saw Tone. For Medicinal Preparation. H. M. Sawyer. 38,367; Dec. 9.
Stovbrite. For Stove Polish. Midway Chemical Co. 38,362; Dec. 9.
The Good Luck Brand. For Sherry Beverage. California Grape Juice Corporation. 38,356; Dec. 9.
Today's Fresh Bread. For Bread. J. L. Alline. 38,354; Dec. 9.
Vita-Mint Chewing Gum. For Chewing Gum. Vita-Mint Inc. 38,371; Dec. 9.
Waldorf. For Toilet Paper. Scott Paper Company. 38,372; Dec. 9.

ALPHABETICAL LIST OF PRINTS

Instructions for Installing Amperite Line Voltage Control. For Line-Voltage-Control Devices for Radio Sets. Amperite Corporation. 12,854; Dec. 9.
It's a Good Rule That Works Both Ways. For Rulers. George B. Graff Company. 12,855; Dec. 9.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 9TH DAY OF DECEMBER, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

A C Spark Plug Company. (See Gregg, David, assignor.)
A C Spark Plug Company. (See Zubaty, Joseph, assignor.)
Abell, Rollin, Milton, Mass. Engine drive mechanism. 1,784,409; Dec. 9.
Aberfoyle Manufacturing Company. (See Ashton, Francis E., assignor.)
Ackley, William L., assignor of fifty-one per cent to Dallas Tailor's Supply Company, Incorporated, Dallas, Tex. Valve-stem guide. 1,784,086; Dec. 9.
Acme Steel Company. (See Norton, Ralph H., assignor.)
Acoustic Products Company. (See Hutchison, Miller R., assignor.)
Adams, Henry, Plainfield, N. J. Apparatus and method of transferring coke and coal or the like. 1,784,650; Dec. 9.
Adams & Westlake Company, The. (See Levan, John F., assignor.)
Air Reduction Company. (See Van Nuys, C. C., and Schlitt, assignors.)
Aktiebolaget Maskinfabriken Gota. (See Hammarström, N. L., and Hoving, assignors.)
Aldeen, Gedor W., Rockford, Ill. Pulley. 1,783,993; Dec. 9.
Alder, Harvin F., La Grange, Ky. Electric signal. 1,784,326; Dec. 9.
Aldrich, Herbert H., and J. L. Rupp, Wilkinsburg, Pa., assignor, by mesne assignments, to Wubco Battery Corporation, Niagara Falls, N. Y. Sealing storage batteries. 1,784,216; Dec. 9.
Alexander, Charles R., Ennis, Tex. Stalk cutter. 1,784,410; Dec. 9.
Algemeene Kunstzijde unie Naamlooze Venootschap. (See Koch, Theodoor, assignor.)
Allen, Ambrose L., Mart, Tex. Mowing machine. 1,784,327; Dec. 9.
Allen, Grosvenor N., M. G. Parker and E. H. Kreps, assignors to Oneida Community, Limited, Oneida, N. Y. Spoon or similar article. Des. 82,719; Dec. 9.
Allis-Chalmers Manufacturing Company. (See Jeffrey, Fraser, assignor.)
Almquist, Leopold, Jersey City, N. J., assignor to American Car and Foundry Company, New York, N. Y. Mine car. 1,784,477; Dec. 9.
Altorfer, Alpheus W., Peoria, assignor to Altorfer Bros. Company, East Peoria, Ill. Laundry machine. 1,784,564; Dec. 9.
Altorfer Bros. Company. (See Altorfer, Alpheus W., assignor.)
American Bemberg Corporation. (See Zur Löwen, Waldemar, assignor.)
American Can Company (See Cabot, Walter K., assignor.)
American Can Company. (See Jones, Lyman L., assignor.)
American Car and Foundry Company. (See Almquist, Leopold, assignor.)
American Car and Foundry Company. (See Beyer, John, assignor.)
American Car and Foundry Company. (See Dietrichson, William F., assignor.)
American Car and Foundry Company. (See Knight, J. M., and Willoughby, assignors.)
American Car and Foundry Company. (See McBride, John J., assignor.)
American Car and Foundry Company. (See Stolberg, Emil C., assignor.)
American Car and Foundry Company. (See Walp, Charles F., assignor.)
American Car and Foundry Company. (See Willoughby, Victor, assignor.)
American Car and Foundry Motors Company. (See Hall, Elbert J., assignor.)
American Cyanamid Company. (See Heuser, Ralph V., assignor.)
American Fabrics Company, The. (See Piepenbring, Gustave A., assignor.)
American Flyer Mfg. Co. (See Becker, Harry S., assignor.)
American Hardware Corporation, The. (See Teich, Ernest L., assignor.)
American La France and Foamite Corporation. (See Patterson, Duncan W., assignor.)
American Lead Pencil Company. (See Burden, W. H., and Friedlein, assignors.)
American Lurgi Corporation. (See Pantenburg, Vitalis, assignor.)
American Rolling Mill Company, The. (See Townsend, A. J., and Miller, assignors.)
American Stove Company. (See Stockstrom, Arthur, assignor.)
American Stove Company. (See Stockstrom, A., and Brodbeck, assignors.)
American Telephone and Telegraph Company. (See Carpe, Allen, assignor.)
American Telephone and Telegraph Company. (See Mitchell, Doren, assignor.)
American Textile Company. (See Ball, Ben A., assignor.)
Anchor Cap & Closure Corporation. (See Carr, Harold J., assignor.)
Andersen, Lauritz W., Waterbury, Conn. Bouquet pin. 1,784,565; Dec. 9.
Anderson, Arvid E., Scotia, N. Y., assignor to General Electric Company. Automatic reclosing circuit-breaker system. 1,784,651; Dec. 9.
Anderson, Fritz A., assignor to The Burdick Corporation, Milton, Wis. Table therapeutic lamp. Des. 82,775; Dec. 9.
Anderson, Fritz A., assignor to The Burdick Corporation, Milton, Wis. Floor-type therapeutic lamp. Des. 82,776; Dec. 9.
Andrews, Clarence W., Burlington, N. C. Treating cotton and other vegetable pulps or fibers of a porous absorbing nature. 1,784,566; Dec. 9.
Arden Box Toe Company. (See Daly, Charles L., assignor.)
Argüelles, Paulino G., La Felguera, Spain. Safety device for electric-lamp bulbs. 1,784,167; Dec. 9.
Ashton, Francis E., assignor to Aberfoyle Manufacturing Company, Chester, Pa. Needle loom. 1,783,994; Dec. 9.
Associated Telephone and Telegraph Company. (See Preist, Thomas P., assignor.)
Augustine, Charles C., North Liberty, Iowa. Violin bow. 1,784,038; Dec. 9.
Ault, David V., Morton, Pa. Producing a pigment. 1,784,411; Dec. 9.
Aultman, Joseph L., Gadsden, Ala. Sweeper. 1,784,567; Dec. 9.
Autocall Company, The. (See Love, F. B., and Smith, assignors.)
Auto Specialties Manufacturing Company. (See Lucker, Millard B., assignor.)
Avorio, Luigi, Rome, Italy. Elastically-deformable parachute. 1,784,774; Dec. 9.
Babcock Manufacturing Company, The. (See Reynolds, Arthur W., assignor.)
Babcock & Wilcox Company, The. (See Fairchild, Frederick P., assignor.)
Babcock & Wilcox Company, The. (See Jacobus, David S., assignor.)
Babitzky, Samuel, Chicago, Ill. Base for bird-cage stands or similar articles. Des. 82,720; Dec. 9.
Bade-Cummins Mfg. Company, The. (See Cummins, Norman W., assignor.)
Badger, Edwin L., Spokane, Wash., assignor to Doherty Research Company, New York, N. Y. Water heater. 1,784,652; Dec. 9.
Bahan, William H., Greenville, S. C. Adjustable gripper for shuttles. 1,784,266; Dec. 9.
Bakelite Limited. (See Lloyd, Arthur, assignor.)
Balazinski, Louis, East Port Chester, Conn. Airship. 1,784,775; Dec. 9.
Baldwin, James L., Chicago, Ill. Cash carrier. 1,784,776; Dec. 9.
Baldwin, James P., and C. Garver, Los Angeles, Calif.; said Garver assignor to said Baldwin. Shock absorber. 1,784,328; Dec. 9.
Bale, Lawrence D., Cleveland, assignor to Union Metal Manufacturing Company, Canton, Ohio. Anchorage for poles. 1,784,568; Dec. 9.
Ball, Ben A., assignor to American Textile Company, Inc., Pawtucket, R. I. Lace. Des. 82,721; Dec. 9.
Ball, Henry V., Concord, Mass., assignor, by mesne assignments, to R. Hoe and Co., Inc., New York, N. Y. Printing machine. 1784,412; Dec. 9.
Balliet, A. H., Corporation. (See Kleinsmith, H. B., Neely, and Doll, assignors.)
Balzano, Oreste. (See Carmichael, A. J., and Balzano.)
Bander, Jacob B., Newark, N. J., assignor of one-half to C. Berger, Brooklyn, N. Y. Reading glass. 1,784,168; Dec. 9.
Barnes, James, Glasgow, Scotland. Spring clip. 1,784,717; Dec. 9.
Barrington, John H., Baltimore, Md., assignor, by mesne assignments, to Standard Brands Incorporated, Dover, Del. Yeast manufacture. 1,784,618; Dec. 9.
Bartlett, C. O., & Snow Company, The. (See Snow, Karl F., assignor.)
Bartlett, John H., jr., assignor to The Oshkosh Trunk Company, Oshkosh, Wis. Garment hanger. 1,784,569; Dec. 9.
Bauer Brothers Company, The. (See Brennan, Edward M., assignor.)

Bauer, Martin, Lakewood, Cleveland, Ohio. Ladder. 1,784,413; Dec. 9.
Baumgartner, Frédéric, Geneva, assignor to Fabrique des Montres Zenith, successeurs de Fabriques des Montres Zenith, Georges, Favre-Jacot, Le Locle, Switzerland. Watchcase. 1,784,169; Dec. 9.
Bayard, Morris L., and M. Harvey, Philadelphia, Pa. Filter-sand washing machine. 1,784,798; Dec. 9.
Baylis, Walter S., assignor to Filtrol Company of California, Los Angeles, Calif. Filtering and decolorizing paper of acid character. 1,784,509; Dec. 9.
Bayliss, Gilbert T. (See Pugh, J. V., and Bayliss.)
Beach & Arthur, Inc. (See Beach, Richard W., assignor.)
Beach, Richard W., assignor to Beach & Arthur, Inc., Indianapolis, Ind. Paper napkin or the like. Des. 82,722; Dec. 9.
Beam, Charles C., assignor to United States Glass Company, Pittsburgh, Pa. Bowl or similar article. Des. 82,723; Dec. 9.
Beards, Jess, and L. L. Tetelman, New York, N. Y. Shade and awning roller bracket. 1,784,478; Dec. 9.
Beardsley, Edwin W., and M. W. Colony, Texas City, Tex., assignors to Petroleum Conversion Corporation, New York, N. Y. Cracking hydrocarbons. 1,784,126; Dec. 9.
Beaujean, Camille, Brussels, assignor to Societe Anonyme d'Ougrée Marikaye, Ougree, Belgium. Sheet piling. 1,784,777; Dec. 9.
Becker, Harry S., River Forest, assignor to American Flyer Mfg. Co., Chicago, Ill. Automatic signaling means for toy tracks. 1,784,778; Dec. 9.
Becker, John H., Richmond Hill, assignor to Warp Twisting-In Machine Company, Brooklyn, N. Y. Removing the harness and stopping instrumentalities from a loom. 1,784,127; Dec. 9.
Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coking retort oven. 1,784,414; Dec. 9.
Becket, Frederick M., New York, N. Y., assignor to Electro Metallurgical Company. Coating metal articles. 1,784,570; Dec. 9.
Bedford, Alda V., Schenectady, N. Y., assignor to General Electric Company. Amplifier. 1,784,653; Dec. 9.
Bell, Codie D., New York, N. Y. Pulling hand top. 1,784,684; Dec. 9.
Bellman, Edward, Rockford, Ill. Alarm-clock unit. 1,784,479; Dec. 9.
Bendix Brake Company. (See La Brie, Ludger E., assignor.)
Benes, Josef, Vsetin, Czechoslovakia. Fuel pump for internal-combustion engines. 1,784,170; Dec. 9.
Benioff, Hugo, Pasadena, Calif., assignor to Carnegie Institution of Washington, Washington, D. C. Electrical recording seismograph. 1,784,415; Dec. 9.
Benoit, Leon. (See Coyle, Joseph L., assignor.)
Berg, Charles, New York, N. Y. Motor vehicle. 1,783,995; Dec. 9.
Berg, Frederick A., Chicago, Ill. Aircraft toy bomber. 1,783,949; Dec. 9.
Berger, Christian. (See Bander, Jacob B., assignor.)
Bergren, Charles G. (See Bergren, John A. and C. G.)
Bergren, John A. and C. G., Lake Park, Minn., assignors to Bergren Manufacturing Company. Potato-cutting machine. 1,784,718; Dec. 9.
Bergren Manufacturing Company. (See Bergren, John A. and C. G., assignors.)
Bergstein, Samuel, assignor to The Interstate Folding Box Company, Middletown, Ohio. Machine for refolding paper trays of the like. 1,784,571; Dec. 9.
Berline, Raoul M., Ruell, France, assignor to The Sharples Specialty Company, Philadelphia, Pa. Centrifugal apparatus. 1,784,510; Dec. 9.
Berlinerblau, Joseph, Warsaw, Poland. Driving spindles in textile-spinning machines. 1,784,719; Dec. 9.
Bernaerts, Henricus F. J., Zeist, assignor to Naamlooze Vennootschap Technisch- en Handelsbureau Van Vliet en Zonen, Bussum, Netherlands. Shock reducer for vehicles provided with leaf springs. 1,784,128; Dec. 9.
Berry, James M., Detroit, Mich. Electric wire casing. 1,784,217; Dec. 9.
Bertling, Herbert, Berlin-Wilmersdorf, Germany. Artificial lighting having a daylight effect. 1,784,171; Dec. 9.
Beyer, John, Bayonne, N. J., assignor to American Car and Foundry Company, New York, N. Y. Tank-dome cover and securing means therefor. 1,784,480; Dec. 9.
Bicknell, George M., assignor to Carter Carburetor Corporation, St. Louis, Mo. Carburetor. 1,784,481; Dec. 9.
Bierhaalder, Dirk, assignor to E. M. Bierhaalder, Minneapolis, Minn. Mold-form construction. 1,784,320; Dec. 9.
Bierhaalder, Edna M. (See Bierhaalder, Dirk, assignor.)
Bishop, Joseph W., Muskegon Heights, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Toilet seat. 1,784,619; Dec. 9.
Blackhall, John R. (See Pardee, Harvey S., assignor.)
Blaikie, Charles D. (See Durand, Moise H., assignor.)
Blake, Robert A., Brooklyn, N. Y. Toy grasshopper. 1,783,996; Dec. 9.
Bleier, Herman E., Chicago, Ill. Electric-light-bulb jacket or similar article. Des. 82,724; Dec. 9.
Bloch, André, Paris, France. Listening and selecting apparatus. 1,784,172; Dec. 9.
Blount, William H. (See Nigro, M., and Blount.)
Boca, Joseph Flint, assignor to General Motors Corporation, Detroit, Mich. Folding top. 1,784,779; Dec. 9.
Boltz, Fred S., Mansfield, Mass. Catch basin for soil-water-heat reclaimers. 1,783,950; Dec. 9.
Bonser, Ernest F., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Pattern-copying machine. 1,783,951; Dec. 9.
Booth, Byron C., Muskegon Heights, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Toilet seat. 1,784,620; Dec. 9.
Booth, Byron C., Muskegon Heights, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Toilet seat. 1,784,807; Dec. 9.
Booth, William N., assignor to Kelsay-Hayes Wheel Corporation, of Detroit, Mich. Forming vehicle wheel disks. 1,784,218; Dec. 9.
Borgwardt, Erich. (See Schoeller, W., Borgwardt, and Feldt.)
Bowers, Maurice L., Long Beach, Calif. Wheel retainer. 1,784,330; Dec. 9.
Bowler, George H., and O. Nasu, Las Vegas, Nev. Oil burner. 1,784,173; Dec. 9.
Boye Needle Company, The. (See Carlson, Gustav A., assignor.)
Boyer, Charles A., Winona Lake, Ind. Flower holder. 1,784,621; Dec. 9.
Boynton, Alexander, San Antonio, Tex. Stage-lift flowing device. 1,784,720; Dec. 9.
Bramming, Carl, Chicago, Ill., assignor to Delta Electric Company, Marion, Ind. Electric switch. Re17,897; Dec. 9.
Brandt, David G., Westfield, N. J., assignor to Doherty Research Company, New York, N. Y. Process and apparatus for the treatment of oil. 1,784,087; Dec. 9.
Brattlien, Erick A., Kensington, Minn. Snowplow. 1,784,331; Dec. 9.
Bratu, Romulus, Paris, France. Aircraft. 1,784,654; Dec. 9.
Braun, Linus A., Minneapolis, Minn. Wood-pulp production and refining. 1,784,039; Dec. 9.
Breckenridge, Floyd. (See Schurr, L. A., and Breckenridge.)
Bredenberg, Alfred, Champlain, assignor of one-half to The Sheridan Iron Works and one-half to T. W. & C. B. Sheridan Company, New York, N. Y. Press for operating upon sheet material. 1,784,721; Dec. 9.
Brennan, Edward M., assignor to The Bauer Brothers Company, Springfield, Ohio. Cleaning apparatus for cottonseed. 1,784,219; Dec. 9.
Briggs Manufacturing Company. (See Marshall, W., and Woodhull, assignors.)
Briggs, Stephen L., Chicago, Ill. Picture-printing machine. 1,783,953; Dec. 9.
Briggs and Stratton Corporation. (See Jacobi, Edward N., assignor.)
Brill, August C., Oberursel, near Frankfort-on-the-Main, Germany, assignor to The Turner Tanning Machinery Company, Portland, Me. Plating skins. 1,783,952; Dec. 9.
Bristol Aeroplane Company Limited, The. (See Fedden, Alfred H. R., assignor.)
Britton, Edgar C., and W. R. Reed, assignors to The Dow Chemical Company, Midland, Mich. Making halogenated aromatic hydrocarbon derivatives. 1,784,267; Dec. 9.
Brockmann, Henry F. W., assignor of one-half to H. C. Scott, San Francisco, Calif. Agitator. 1,784,416; Dec. 9.
Brodbeck, Almer H. (See Stockstrom, A., and Brodbeck.)
Broder, Reuben, New York, N. Y. Automobile handgrip. 1,783,954; Dec. 9.
Broeman, Frank C., Cincinnati, Ohio, assignor to National Products-Supply Company, Ashland, Ky. Cooling compound and lubricant and manufacturing same. 1,784,220; Dec. 9.
Brogger, Ivar W., Springfield, assignor to Tiffany Manufacturing Company, Newark, N. J. Electrical indicating instrument. 1,784,417; Dec. 9.
Bronson, Budd, Lakewood, assignor to The Ohio Rubber Company, Cleveland, Ohio. Vulcanizing press. 1,784,780; Dec. 9.
Bronson, Budd, Lakewood, assignor to The Ohio Rubber Company, Cleveland, Ohio. Composite steel and rubber article. 1,784,781; Dec. 9.
Bronson, Budd, Lakewood, assignor to The Ohio Rubber Company, Cleveland, Ohio. Composite running board. 1,784,782; Dec. 9.
Brooke, Herbert, Brighton, England. Liquid electric controller. 1,784,332; Dec. 9.
Brown Company. (See Richter, G. A., and Schur, assignors.)
Brown Instrument Company, The. (See Harrison, Thomas R., assignor.)
Brown, James W., Tulsa, Okla. Derrick. 1,784,572; Dec. 9.
Bruback, Theodore M. (See Linaker, F. W., and Bruback.)
Bruer, Genevieve, San Francisco, Calif. Hatbox. 1,784,333; Dec. 9.
Brunswick-Balke-Collender Company, The. (See Bishop, Joseph W., assignor.)
Brunswick-Balke-Collender Company. (See Booth, Byron C., assignor.)
Brunswick-Balke-Collender Company, The. (See Johnson, George, assignor.)

Bryan, Joseph H., assignor of two-thirds to W. L. Simpson, Birmingham, Ala. Radiator cabinet. 1,784,040; Dec. 9.
Bryant Electric Company, The. (See McKinley, Benjamin P., assignor.)
Buckendale, Laurence R., Detroit, Mich., and C. A. Peirce, Chicago, Ill. Motor vehicle. 1,784,268; Dec. 9.
Bucklitch, Gustave J. (See Hadfield, S., and Bucklitch.)
Budd, Edward G., Manufacturing Company. (See Ledwinka, Joseph, assignor.)
Budd, Edward G., Manufacturing Company. (See Paugh, James J., assignor.)
Budd, Gerald J., Venice, Calif. Harrow and tooth thereof. 1,784,655; Dec. 9.
Budd Wheel Company. (See Hughes, James W., assignor.)
Bühler, Georg, Vienna, Austria. Compound mold for casting metal bodies. 1,784,174; Dec. 9.
Builders' Patent Scaffolding Company. (See Kingston, Thomas H., assignor.)
Burden, William H., Weehawken, and R. E. Friedlein, Mountain View, N. J., assignors to American Lead Pencil Company, New York, N. Y. Apparatus for the manufacture of pencils. 1,783,997; Dec. 9.
Burdick Corporation, The. (See Anderson, Fritz A., assignor.)
Burgess Battery Company. (See Schulte, Walter B., assignor.)
Burt Machine Company. (See Wild, Charles H., assignor.)
Burton, Charles S., Oak Park, Ill. Vacuum tank. 1,784,129; Dec. 9.
Burton, Charles S., Oak Park, Ill. Vacuum tank. 1,784,130; Dec. 9.
Burton-Dixie Corporation. (See Pearce, Charles F., jr., assignor.)
Butler, Clyde G., assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio. Grease-gun casing. Des. 82,725; Dec. 9.
Butler, Clyde G., and F. C. Woelfer, jr., assignors to The Cincinnati Ball Crank Company, Cincinnati, Ohio. Grease cup. 1,784,573; Dec. 9.
Butler, Henry E., Scotia, N. Y., assignor to General Electric Company. Film cut-out. 1,784,656; Dec. 9.
Cabot, Walter K., Montclair, N. J., assignor to American Can Company, New York, N. Y. Can-making machinery and apparatus. 1,784,131; Dec. 9.
Cabrera, Charles T., assignor to Electric Dialyzer Corporation, New York, N. Y. Filtration system. 1,784,132; Dec. 9.
Caille Motor Company. (See Knupp, Harry E., assignor.)
Cain, John R., Washington, D. C., assignor to The Richardson Company, Lockland, Ohio. Annealing. 1,784,221; Dec. 9.
Cairns Development Company. (See Carns, Edmund B., assignor.)
California Institute of Technology. (See Millikan, R. A., and Sorensen, assignors.)
Callum, Preston D., Baltimore, Md. Knife guard. 1,784,334; Dec. 9.
Campbell, Leon J., Buchanan, Mich., assignor, by mesne assignments, to The Studebaker Corporation, South Bend, Ind. Power take-off unit for tractors. 1,784,088; Dec. 9.
Cantwell, John M., Tarrytown, N. Y. Jack. 1,784,574; Dec. 9.
Carbaugh, Conrad A., Dickeys Mountain, Pa. Adjusting stop for sawmill-carriage headblocks. 1,784,175; Dec. 9.
Carborundum Company, The. (See Wills, Herbert J., assignor.)
Carickhoff, James R., Lexington, N. C. Clutch construction. 1,784,722; Dec. 9.
Carlson, Gustav A., assignor to The Boye Needle Company, Chicago, Ill. Beater spoon. 1,784,575; Dec. 9.
Carmichael, Andrew J., and O. Balzano, New Haven, Conn., assignors to The Greist Manufacturing Company. Sewing-machine presser foot. 1,784,177; Dec. 9.
Carnegie Institute of Washington. (See Benioff, Hugo, assignor.)
Carney, Samuel C., San Francisco, Calif., assignor to Shell Petroleum Corporation. Treatment of hydrocarbons. Re17,898; Dec. 9.
Carns, Edmund B., New York, N. Y., assignor to Cairns Development Company, Wilmington, Del. Laminated sheet structure. 1,784,511; Dec. 9.
Carpe, Allen, New York, N. Y., assignor to American Telephone and Telegraph Company. Equalization for carrier systems. 1,784,176; Dec. 9.
Carpe, Allen, New York, N. Y., assignor to American Telephone and Telegraph Company. Voice-controlled circuits. 1,784,178; Dec. 9.
Carr, Harold J., New York, assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y. Screw cap. 1,784,089; Dec. 9.
Carson, William W., Jr. (See Giesler, J. V., Carson, and Clark.)
Carson, William W., jr., assignor, by mesne assignments, to The Fulton Syphon Company, Knoxville, Tenn. Thermostatically-controlled valve mechanism. 1,784,041; Dec. 9.
Carson, William W., jr., assignor to The Fulton Syphon Company, Knoxville, Tenn. Thermostat support. 1,784,042; Dec. 9.
Carter Carburetor Corporation. (See Bicknell, George M., assignor.)
Case, J. I., Company. (See Walsh, James A., assignor.)
Catlin, Gordon W. F., St. Albans, England. Apparatus for separating fat or other material from gases. 1,784,418; Dec. 9.
Cauchemont, Albert, Paris, France. Ventilating device. 1,784,783; Dec. 9.
Celanese Corporation of America. (See Dickie, W. A., Platts, and Latham, assignors.)
Cement Gun Construction Co. (See Swann, Edward C., assignor.)
Centofanti, Sam, and A. Marchetti, Youngstown, Ohio. Radiator cap and movable headlight. 1,784,043; Dec. 9.
Chamberlain, Martin T., Joliet, Ill. Coating machine. 1,783,955; Dec. 9.
Chandler, Franklin F., assignor to Ross Gear & Tool Company, La Fayette, Ind. Steering gear. 1,784,044; Dec. 9.
Chapple, John C. (See Muhlfeld, J. E., and Chapple.)
Charcolite Corporation. (See Mitchell, John, assignor.)
Chemische Fabrik auf Actien vorm E. Schering. (See Jordan, H., Schoeller, and Clerc, assignors.)
Chemische Fabrik auf Actien (vorm. E. Schering.) (See Schoeller, W., Borgwardt, and Feldt, assignors.)
Cheney Weeder Company. (See Largent, Raleigh M., assignor.)
Chrétien, Henri, St.-Cloud, assignor to Societe Anonyme Francaise dite: Societe Technique D'Optique et de Photographie (S. T. O. P.) St.-Ouen, France. Photographic reproduction objective with two diaphragms and its application as in printing positives for black and white cinematography, color cinematography, or cinematography in relief. 1,783,998; Dec. 9.
Christensen Machine Company, The. (See Greene, Frederick J., assignor.)
Christiansen, Nels and C. Mortensen, Ringsted, Iowa. Flexible hinged drawbar for harrows. 1,784,576; Dec. 9.
Christensen, Niels A., Cleveland, Ohio. Vehicle brake mechanism. Re17,899; Dec. 9.
Christophel, Carl E., deceased, late of Pearl River, by The First National Bank and Trust Company of New York, executor; said Christophel assignor to Dexter Folder Company, New York, N. Y. Sheet-feeding device. 1,784,335; Dec. 9.
Christophel, Carl E., deceased, late of Pearl River, by The First National Bank and Trust Company of Pearl River, New York, executor; said Christophel assignor to Dexter Folder Company, New York, N. Y. Sheet-feeding device. 1,784,336; Dec. 9.
Chrysler Corporation. (See Hadley, Newton F., assignor.)
Chrysler Corporation. (See Skelton, Owen R., assignor.)
Cimorosi, Alberto, Elkton, Md. Salute and making same. 1,783,999; Dec. 9.
Cincinnati Ball Crank Company, The. (See Butler, Clyde G., assignor.)
Cincinnati Ball Crank Company, The. (See Butler, C. G., and Woelfer, assignors.)
Clark, Fred D., Kansas City, Mo. Building. Des. 82,726; Dec. 9.
Clark, Thomas R. (See Giesler, J. V., Carson, and Clark.)
Clark, Thomas R., Knox County, assignor to The Fulton Syphon Company, Knoxville, Tenn. Thermostat support. 1,784,045; Dec. 9.
Clarke, Bruce E., and A. A. Schlew, Tulsa, Okla. Cast or splint removing device. 1,784,337; Dec. 9.
Clarkson, Thomas, London, England. Steam generator or water heater. 1,784,338; Dec. 9.
Clasen, Friedrich, Lubeck, and H. Lenckerstorf, Stockelsdorf, assignors to Maschinenfabrik Beth, Aktiengesellschaft, Lubeck, Germany. Filtering apparatus. 1,784,339; Dec. 9.
Claus Manufacturing Co. (See Leins, Oscar J., assignor.)
Clayton, Andrew B., Union, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Looper-actuating mechanism for sewing machines. 1,784,512; Dec. 9.
Clegg Lock Washer Corporation. (See Clegg, Roy E., assignor.)
Clegg, Roy E., assignor to Clegg Lock Washer Corporation, Chicago, Ill. Lock washer. 1,784,269; Dec. 9.
Clerc, Reinhard. (See Jordan, H., Schoeller, and Clerc.)
Cleveland Trust Company, The. (See Jardine, Frank, assignor.)
Coahran, Jesse M., Colegrove, Pa. Removing methanol from pyroligneous acid liquor. 1,784,270; Dec. 9.
Coberly, Clarence J., Los Angeles, assignor to Kobe, Inc., Huntington Park, Calif. Cutting slots in metal. 1,784,513; Dec. 9.
Coffield Washer Company of Canada Limited, The. (See Kamp, C. T., and Ryckman, assignors.)
Coleman, Allen B., Des Moines, Iowa. Display rack for ornamental tiles. 1,784,577; Dec. 9.
Coles, Yeyton S., Atlanta, Ga. Whirligig. 1,784,179; Dec. 9.
Collins, Walter H., assignor to Pacific Clay Products, Los Angeles, Calif. Conduit and constructing the same. 1,784,271; Dec. 9.
Colony, Myron W. (See Beardsley, E. W., and Colony.)
Conant, Clarence H., Chicago, Ill. Electrical connecter. 1,784,340; Dec. 9.
Condit Electrical Manufacturing Corporation. (See Edsall, William S., assignor.)
Congoleum-Nairn, Inc. (See Feeney, Joseph P., assignor.)

Consolidated Aircraft Corporation. (See Gwinn, J. M., jr., and Oversmith, assignors.)
Consortium fur Elektrochemische Industrie. (See Herrmann, W. O., and Haehnel, assignors.)
Constable, Charles E., assignor to The National Marking Machine Company, Cincinnati, Ohio. Spiral conveyer device for packages and coat hangers. 1,783,272; Dec. 9.
Constable, Charles E., assignor to The National Marking Machine Company, Cincinnati, Ohio. Bundle-transferring device for conveyers. 1,784,273; Dec. 9.
Constant, C. L., Company. (See Stewart, Alexander, assignor.)
Cook, Harvey S., Valparaiso, Ind., assignor to Cook Laboratories, Inc. Medicament-dispensing cartridge. 1,783,956; Dec. 9.
Cook Laboratories, Inc. (See Cook, Harvey S., assignor.)
Cooper, William L., Kankakee, Ill., assignor to Florence Stove Company, Boston, Mass. Oil heating stove. 1,784,000; Dec. 9.
Cornwell, Ralph E., Pasadena, Calif. Rotary engine. 1,784,578; Dec. 9.
Cotton, Frederick S., London, England. Airplane skid. 1,784,274; Dec. 9.
Coultas, Dwight W., Cranston, R. I. Buckle. Des. 82,727; Dec. 9.
Courter, Andrew L., Paterson, N. J., assignor to C. K. Eagle & Co., Inc., New York, N. Y. Decorative fabric. Des. 82,728; Dec. 9.
Courter, Andrew L., Paterson, N. J., assignor to C. K. Eagle & Co., Inc., New York, N. Y. Decorative fabric. Des. 82,729; Dec. 9.
Courter, Andrew L., Paterson, N. J., assignor to C. K. Eagle & Co., Inc., New York, N. Y. Decorative fabric. Des. 82,730; Dec. 9.
Courter, Andrew L., Paterson, N. J., assignor to C. K. Eagle & Co., Inc., New York, N. Y. Decorative fabric. Des. 82,731; Dec. 9.
Courter, Andrew L., Paterson, N. J., assignor to C. K. Eagle & Co., Inc., New York, N. Y. Decorative fabric. Des. 82,732; Dec. 9.
Coyle, Joseph L., London, Ontario, Canada, assignor to L. Benoit, Chicago, Ill. Egg carton. 1,784,275; Dec. 9.
Craig, Robert, Dayton, Ohio, assignor to International Business Machines Corporation. Metroscopic force-measuring instrument. 1,784,046; Dec. 9.
Crary, Charles A., Wyoming, Ohio. Cake of soap. Des. 82,777; Dec. 9.
Crawford, Marian, Chicago, Ill. Lingerie clasp. 1,784,482; Dec. 9.
Crickmer, Charles S., assignor to Tridex Corporation, Dallas, Tex. Suction atomizer. 1,784,222; Dec. 9.
Crickmer, Charles S., assignor to Tridex Corporation, Dallas, Tex. Handle. 1,784,223; Dec. 9.
Crites, Joe. (See Davidson, P., and Crites.)
Cummins, Norman W., assignor to The Bade-Cummins Mfg. Co., Louisville, Ky. Hood clamp. 1,784,224; Dec. 9.
Curtis, Rowland J., assignor to The Reeves Manufacturing Company, Dover, Ohio. Forming die. 1,784,579; Dec. 9.
Cushner, Henry F., Brooklyn, N. Y. Car for amusement devices. Des. 82,733; Dec. 9.
Cutler-Hammer, Inc. (See Seeger, Edwin W., assignor.)
Cutler-Hammer, Inc. (See Stevens, W. C., and Meuer, assignors.)
Cutler-Hammer, Inc. (See Tregoning, William C., assignor.)
Dahl, Victor, Spokane, Wash. Christmas-tree support. 1,784,090; Dec. 9.
Dallas Tailor's Supply Company Incorporated. (See Ackley, William L., assignor.)
Daly, Charles L., Brockton, assignor, by mesne assignments, to Arden Box Toe Company, Watertown, Mass. Soft box toe. 1,784,276; Dec. 9.
Darby, George A., East Orange, assignor to Orange Roller Bearing Company, Orange, N. J. Roller bearing. 1,783,957; Dec. 9.
Dardani, Martin E. E., assignor, by mesne assignments, to The New England Filter Corporation, Fairfield, Conn. Gasoline filter. 1,784,622; Dec. 9.
Darlington, Francis G., San Francisco, Calif. Switch-box plate cover. 1,784,277; Dec. 9.
Davidson, Louis, New York, N. Y. Arch or truss shoe. 1,783,958; Dec. 9.
Davidson, Philip, New York, N. Y., and J. Crites, Evanston, Ill., assignor to International Combustion Engineering Corporation, New York, N. Y. Pneumatic feed-regulating mechanism. 1,784,483; Dec. 9.
Davydoff, Leonide. (See Rebikoff, Wassily, assignor.)
Day, J. H., Company, The. (See Schiff, Sigmund, assignor.)
Dayton Pump & Manufacturing Company, The. (See Eickmeyer, Earl E., assignor.)
Deacon, Percy J., Lakeworth, Fla. Tendering meats. 1,784,580; Dec. 9.
Dean, George H., Norwood, R. I. Cap for building columns. 1,784,091; Dec. 9.
Dean, George H., Norwood, R. I. Cap for building columns. 1,784,092; Dec. 9.
De Benedictis, Charles, Palisades, N. J. Rug. 1,784,657; Dec. 9.
Decker, Alonzo G., Baltimore County, Md., assignor to Marschke Manufacturing Company, Indianapolis, Ind. Electric drive for grinder wheels. 1,784,133; Dec. 9.
Degener, Gustave O., Brooklyn, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,784,047; Dec. 9.
De Hora, Manuel H., New York, N. Y. Aircraft. 1,784,723; Dec. 9.
Deimel, Richard F. (See Gillmor, R. E., and Deimel.)
Delale, Emile, Paris, France. Roof for carriage bodies. 1,784,180; Dec. 9.
Delta Electric Company. (See Bramming, Carl, assignor.)
Demag Aktiengesellschaft. (See Möller, Fritz, assignor.)
De Marco, Anthony. (See Morano, James E., assignor.)
Demoucron, Gaston J., Paris, France. Boot last. 1,784,181; Dec. 9.
De Samsonow, Alexandre, assignor, by mesne assignments, to Societe pour l'Enrichissement et l'Agglomeration des Minerals, Societe Anonyme, Brussels, Belgium. Apparatus for agglomerating and roasting minerals. 1,784,658; Dec. 9.
De Sherbinin, Ingvar E., New York, N. Y. Lamp shade. 1,784,048; Dec. 9.
Despard, Victor R., assignor to McGill Manufacturing Company, Valparaiso, Ind. Electric switch. 1,784,514; Dec. 9.
Des Roches, Philip W., Detroit, Mich. Control member for liquids. 1,783,959; Dec. 9.
Detroit Steel Products Company. (See Loucks, James F., assignor.)
Devany, Patrick F., Chicago, Ill. Core box. 1,784,225; Dec. 9.
Devaux, Paul, Juvisy, France. Driving means for the rollers of spinning machines. 1,784,659; Dec. 9.
Devito, Antonio, Brooklyn, N. Y. Bicycle mechanism. 1,784,419; Dec. 9.
De Vlieg, Gerard A., Rockford, Ill. Setting gauge. 1,784,093; Dec. 9.
De Witt, William J., assignor to Shoe Form Co., Inc., Auburn, N. Y. Expansible toe form. 1,784,660; Dec. 9.
De Witt, William J., assignor to Shoe Form Co., Inc., Auburn, N. Y. Shoe form. 1,784,661; Dec. 9.
De Witt, William J., assignor to Shoe Form Co., Inc., Auburn, N. Y. Shoe form. 1,784,662; Dec. 9.
Dexter Folder Company. (See Christophel, Carl E., assignor.)
Dexter Folder Company. (See Ehlig, Harry, assignor.)
Dick, Chas. A., trustee, et al. (See Gullette, William A., assignor.)
Dickie, William A., T. H. Platts, and L. Latham, Spondon, near Derby, England, assignors to Celanese Corporation of America. Manufacture of yarns or threads and apparatus therefor. 1,784,581; Dec. 9.
Dietert, Harry W., assignor to United States Radiator Cor., Detroit, Mich. Continuous iron-temperature recorder. 1,784,420; Dec. 9.
Dietrichson, William F., Webster Groves, Mo., assignor to American Car and Foundry Company, New York, N. Y. Car construction. 1,784,484; Dec. 9.
Doerr Manufacturing Company. (See Roedding, Gordon E., assignor.)
Doherty Research Company. (See Badger, Edwin L., assignor.)
Doherty Research Company. (See Brandt, David G., assignor.)
Doll, Fred W. (See Kleinsmith, H. B., Neely, and Doll.)
Dollinger, Lewis L., assignor to Staynew Filter Corporation, Rochester, N. Y. Method and apparatus for filtering and cleaning filters. 1,784,278; Dec. 9.
Donald, James. (See Downey, T. F., and Donald.)
Donovan, Robert E. (See Wallenberg, Richard S., assignor.)
Döppenschmitt, Friedrich, Pforzheim, Germany. Flexible structure. 1,784,582; Dec. 9.
Dorr Company, The. (See Newton, Harry W., assignor.)
Dorsey, Herbert G. (See Fay, R. D., and Dorsey.)
Douglas Aircraft Company. (See Douglas, Donald W., assignor.)
Douglas, Donald W., Santa Monica, assignor, by mesne assignments, to Douglas Aircraft Company, Inc., Los Angeles, Calif. Amphibian plane. 1,784,784; Dec. 9.
Douglis, Charles, Lawrence, N. Y. Connecter device for cuffs of knickers. 1,784,785; Dec. 9.
Dow Chemical Company, The. (See Britton, E. C., and Reed, assignors.)
Dowling, Frederick A. (See Zuber, E. F., and Dowling.)
Downey, Thomas F., and J. Donald, Chicago, Ill. Steam-generating furnace. 1,784,134; Dec. 9.
Draper, John H., Canton, Mass. Washing machine. 1,784,663; Dec. 9.
Dreese, Erwin E. (See Lincoln, J. F., and Dreese.)
Dreyfus, Henry, London, England. Making acetic acid. 1,784,583; Dec. 9.
Dujardin, Henry. (See Rensonnet, Oscar, assignor.)
Duncan, William M., Alton, Ill. Mechanical stoker. 1,784,001; Dec. 9.
Dunning, William E., assignor to The McCaskey Register Company, Alliance, Ohio. Filing appliance. 1,784,584; Dec. 9.
Duplate Corporation. (See Sherts, James H., assignor.)
Du Pont, E. I., de Nemours & Company. (See Frei, John, assignor.)
Du Pont, E. I., de Nemours, & Company. (See Woodward, Harold E., assignor.)
Durand & Huguenin. (See Taussig, Walter, assignor.)
Durand, Moise H., assignor to C. D. Blaikie, doing business as Smith, Richardson Co., Attleboro, Mass. Woven wire and method of its manufacture. 1,784,786; Dec. 9.

Dur-O-Lite Pencil Co. (See Lynn, John P., assignor.)
Dutchess Tool Company. (See Van Houten, Frank H., assignor.)
Dyer, Clarence J. L., Kisbey, Saskatchewan, Canada. Drag harrow. 1,784,182; Dec. 9.
Eagle, C. K., & Co. (See Courter, Andrew L., assignor.)
Eastman Kodak Company. (See Fritts, Edwin C., assignor.)
Eastman Kodak Company. (See Sheppard, S. E., and McNally, assignors.)
Eclipse Machine Company. (See Lansing, Raymond P., assignor.)
Edgerton, Israel V., assignor to Palace Poultry Car Company, Chicago, Ill. Poultry car. 1,784,685; Dec. 9.
Edsall, William S., Brookline, assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass. Motor-control switch. 1,784,226; Dec. 9.
Ehlig, Harry, Pearl River, assignor, by mesne assignments, to Dexter Folder Company, New York, N. Y. Sheet feeder. 1,783,962; Dec. 9.
Eickholt, Friedrich, Weisweld, Germany. Separator. 1,784,664; Dec. 9.
Eickmeyer, Earl E., assignor to The Dayton Pump & Manufacturing Company, Dayton, Ohio. Liquid-dispensing pump. Des. 82,734; Dec. 9.
Electric Boat Company. (See Spear, Lawrence Y., assignor.)
Electro Dialyzer Corporation. (See Cabrera, Charles T., assignor.)
Electro Metallurgical Company. (See Becket, Frederick M., assignor.)
Electro Metallurgical Company. (See George, Harry S., assignor.)
Electro-Mobile Corporation. (See Neuland, Alfons H., assignor.)
Elgin National Watch Company. (See Showalter, Victor E., assignor.)
Eller, Fritz, Berlin-Wannsee, Germany. Coin-controlled sales apparatus. 1,784,585; Dec. 9.
Ellerbeck, Ben B., Salt Lake City, Utah. Convertible automobile top. 1,784,279; Dec. 9.
Elliott, Edward O., Jenkintown, Pa. Locomotive-boiler support. 1,784,787; Dec. 9.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Floor covering. 1,784,135; Dec. 9.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Floor-covering material and making same. 1,784,799; Dec. 9.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Floor covering and making same. 1,784,800; Dec. 9.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Floor covering and making same. 1,784,801; Dec. 9.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Textured floor covering and making same. 1,784,802; Dec. 9.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Light-colored floor covering and making same. 1,784,803; Dec. 9.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Variegated floor covering and making same. 1,784,804; Dec. 9.
Ellis-Foster Company. (See Ellis, Carleton, assignor.)
Ellis-Foster Company. (See Lougovoy, Boris N., assignor.)
Elms, Robert W., Baltimore, Md. Sampler. 1,784,485; Dec. 9.
Emis, Benjamin, New York, assignor of one-half to I. L. Schonbrun, Brooklyn, N. Y. Illuminated sign. 1,783,963; Dec. 9.
Engel, Albert W., Chicago, Ill. System for mounting stereoscopic views. 1,784,227; Dec. 9.
Englund, Albert E., West Hartford, assignor to The Jacobs Manufacturing Company, Hartford, Conn. Chuck. 1,784,002; Dec. 9.
Enke, Martin F., Oakland, Calif. Buoy-inflated swimming paddle. 1,784,136; Dec. 9.
Eslinger, Harvey H., Hecktown, Pa., assignor to Eslinger Motors Company. Valve mechanism for internal-combustion engines. 1,784,421; Dec. 9.
Eslinger Motors Company. (See Eslinger, Harvey H., assignor.)
Esmond Mills, The. (See Viscolosi, Louis, assignor.)
Eugene Ltd. (See Gunter, W. A., and Griesser, assignors.)
Evans Case Company. (See Lawrence, Cecil H., assignor.)
Evans, Powell, and M. P. Stoney, Philadelphia, Pa. Fire-extinguisher unit. Des. 82,735; Dec. 9.
Fabre, Hippolyte, Clamart, France. Plant for the vertical molding of concrete work. 1,784,422; Dec. 9.
Fabriques des Montres Zenith. (See Baumgartner, Frédéric, assignor.)
Fahrenholtz, Henry, assignor of one-third to J. Fahrenholtz and one-third to E. Winters, Dayton, Ky. Musical alarm. 1,784,049; Dec. 9.
Fahrenholtz, Joseph, et al. (See Fahrenholtz, Henry, assignor.)
Fairall, Harry K., assignor to Multicolor Ltd., Los Angeles, Calif. Binocular nonstop motion-picture camera. 1,784,515; Dec. 9.
Fairbanks, Luke J., Los Angeles, Calif. Container and means for holding said containers in cooperation. 1,784,516; Dec. 9.
Fairchild, Frederick P., White Plains, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Furnace. 1,784,586; Dec. 9.
Fairchild, Walter L., New York, N. Y. Molding apparatus for pneumatic tubes, tires, and the like. 1,784,623; Dec. 9.
Fantino, Italo, New York, N. Y. Shoe stretcher. 1,784,341; Dec. 9.
Farber, S. W., Inc. (See Farber, Simon W., assignor.)
Farber, S. W., Inc. (See Murphy, Frank J., assignor.)
Farber, Simon W., assignor to S. W. Farber, Inc., Brooklyn, N. Y. Casserole or similar article. Des. 82,736; Dec. 9.
Farley, William D. (See McNabb, W. R., Farley, and Starcher.)
Farmer, Frank T., Detroit, Mich., assignor of one-half to R. E. Farmer, New York, N. Y. Lawn mower. 1,784,342; Dec. 9.
Farmer, Robert E. (See Farmer, Frank T., assignor.)
Farrand, Clair L., Forest Hills, N. Y., assignor to Farrand Inductor Corporation, Jersey City, N. J. Loud-speaker and circuit therefor. 1,784,486; Dec. 9.
Farrand, Clair L., Forest Hills, N. Y., assignor to Farrand Inductor Corporation, Jersey City, N. J. Motor for loud-speakers. 1,784,517; Dec. 9.
Farrand Inductor Corporation. (See Farrand, Clair L., assignor.)
Farrar, John H., Memphis, Tenn., assignor to S. J. Graham, Tuckerman, Ark. Coin-controlled vending machine. 1,784,587; Dec. 9.
Fauerbach, Daniel, West Easton, Pa., assignor to General Chemical Company, New York, N. Y. Process and apparatus for producing wax. 1,784,686; Dec. 9.
Faulkner, Ralph C., Brooklyn, assignor to E. R. Squibb & Sons, New York, N. Y. Bottle. Des. 82,737; Dec. 9.
Fay, Richard D., Cambridge, and H. G. Dorsey, Gloucester, assignors to Submarine Signal Corporation, Boston, Mass. Submarine signaling. 1,784,137; Dec. 9.
Fedden, Alfred H. R., assignor to The Bristol Aeroplane Company Limited, Bristol, England. Lubrication of internal-combustion engines. 1,784,788; Dec. 9.
Federal Merchandise Co. (See Hueglin, Herman C., assignor.)
Feeney, Joseph P., Kearny, N. J., assignor to Congoleum-Nairn, Inc. Ejector for cutting cylinders. 1,784,487; Dec. 9.
Feldt, Adolf. (See Schoeller, W., Borgwardt, and Feldt.)
Fellmer, Ernst, Leverkusen-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y. New azo dyestuffs. 1,784,343; Dec. 9.
Ferrier, Paul, Paris, France. Joint for molds operating by centrifugal force. 1,784,344; Dec. 9.
Ferris, Lockwood W., Salt Lake City, Utah. Concentration of minerals by froth flotation. 1,784,280; Dec. 9.
Fike, Roy H., Eagle, Idaho. Mechanical bucking horse. 1,784,183; Dec. 9.
Filtrol Company of California. (See Baylis, Walter, assignor.)
Firm "Universelle" Cigarettenmaschinen-Fabrik J. C. Muller & Co. (See Hohn, Max P. E., assignor.)
First National Bank and Trust Company of Pearl River, New York, The, executor. (See Christophel, Carl E.)
Fischer, Kuno, assignor to Süddeutsche Tele-F-On-Apparate-Kabel- und Drahtwerke A.-G., Nuremberg, Germany. Long-distance cable installation. 1,784,184; Dec. 9.
Fisk Rubber Company, The. (See Littlefield, Lloyd M., assignor.)
Flack, Theodore J., Brooksville, Fla. Positioning mold pattern units. 1,784,345; Dec. 9.
Flehr, Paul D., San Francisco, Calif. Frequency converter. 1,784,228; Dec. 9.
Fletcher, Harold W., assignor to Hughes Tool Company, Houston, Tex. Valve-operating means. 1,784,094; Dec. 9.
Fletcher, Harold W., assignor to Hughes Tool Company, Houston, Tex. Quenching tank. 1,784,095; Dec. 9.
Fletcher, Harold W., assignor to Hughes Tool Company, Houston, Tex. Fluid-operated swab. 1,784,096; Dec. 9.
Florence Stove Company. (See Cooper, William L., assignor.)
Föbus, Ludwig, Dortmund-Barop, Germany. Cooling means for castings. 1,784,346; Dec. 9.
Foote-Burt Company, The. (See Kelleher, Daniel, assignor.)
Ford, Henry, assignor to Ford Motor Company, Dearborn, Mich. Generator. 1,784,624; Dec. 9.
Ford Instrument Company. (See Tanner, Harry L., assignor.)
Ford, James S., and F. Murray, Greymouth, New Zealand. Fuel briquette. 1,784,665; Dec. 9.
Ford Motor Company. (See Ford, Henry, assignor.)
Forgrove Machinery Company Limited, The. (See Grover, Frederick, assignor.)
Fortinberry, Howard F., Fort Worth, assignor to Gulf Production Company, Houston, Tex. Dump and seal tubing valve. 1,784,050; Dec. 9.
Fox Furnace Company, The. (See Suppes, Max M., assignor.)
Fox, John H., and W. Owen, Pittsburgh, Pa., assignors to Pittsburgh Plate Glass Company. Surfacing machine. 1,783,960; Dec. 9.
Fox, Vernie A., assignor to Young Brothers Company, Detroit, Mich. Conveyer rack. 1,784,229; Dec. 9.
Frank, S. K., et al. (See Gullette, William A., assignor.)
Franks, Harry H., assignor of three-fourths to Tidal Oil Company, Tulsa, Okla. Walking-beam stirrup. 1,784,003; Dec. 9.

Frantz, Virgil L., and O. O. Lemon, Roanoke, Va., assignors to said Frantz. Locomotive sending device. 1,784,051; Dec. 9.

Freeberg, George. (See Simons, G. A., and Freeberg.)

Freed, Frank A. (See Pearson, Alfred, assignor.)

Freeman, John C., Jeffersonville, Ind. Handgrip attachment for steering wheels. 1,784,230; Dec. 9.

Frei, John, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making alkyl chlorides. 1,784,423; Dec. 9.

French, William A., Minneapolis, Minn. Cabinet. Des. 82,738; Dec. 9.

French, William A., Minneapolis, Minn. Table. Des. 82,739; Dec. 9.

Fried, Abraham L., New York, N. Y. Shoe and making same. 1,784,806; Dec. 9.

Fried. Krupp Germaniawerft Aktiengesellschaft. (See Haussmann, Karl, assignor.)

Friedlein, Robert E. (See Burden, W. H., and Friedlein.)

Fritts, Edwin C., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic cartridge. 1,784,281; Dec. 9.

Frova, Giovanni, Milan, Italy. Fruit-pitting machine. 1,784,347; Dec. 9.

Fujii, Isao, Komasawa-Machi, Ebara-Gun, Tokyo-Fu, Japan. Matrix for typographical machines. 1,784,789; Dec. 9.

Fulton Sylphon Company, The. (See Carson, William W., jr., assignor.)

Fulton Sylphon Company, The. (See Clark, Thomas R., assignor.)

Fulton Sylphon Company, The. (See Giesler, Jean V., assignor.)

Fulton Sylphon Company, The. (See Giesler, J. V., Carson, and Clark, assignors.)

Fulton Sylphon Company, The. (See Searle, William F., jr., assignor.)

Garde, John, Toronto, Ontario, Canada. Sewing-machine feed. 1,784,724; Dec. 9.

Gardner, Frederic E., Beloit, Wis. Grinding machine. 1,784,231; Dec. 9.

Gardner, George, Redlands, Calif. Loading attachment for road graders. 1,784,666; Dec. 9.

Garver, Clifford. (See Baldwin, J. P., and Garver.)

Garwood, Charles E., Avalon, Calif. Wave-motor driving mechanism. 1,784,424; Dec. 9.

Gasoline Products Company. (See Hargrove, G. C., and Montgomery, assignors.)

Gebrüder Brehmer, Maschinenfabrik. (See Kleinschmit, Oscar, assignor.)

Geiger, Paul H., Wilkinsburg, and L. O. Grondahl, Pittsburgh, assignors to The Union Switch & Signal Company, Swissvale, Pa. Electrical filtering apparatus. 1,784,004; Dec. 9.

Gelatt, Philo M., Miami Beach, Fla. Vapor-pressure gauge. 1,784,052; Dec. 9.

General Aniline Works, Inc. (See Fellmer, Ernst, assignor.)

General Aniline Works, Inc. (See Herz, R., and Schubert, assignors.)

General Aniline Works, Inc. (See Krauss, Carl, assignor.)

General Aniline Works, Inc. (See Münch, Eduard, assignor.)

General Aniline Works, Inc. (See Thiess, Karl, assignor.)

General Aniline Works, Inc. (See Zitscher, Arthur, assignor.)

General Chemical Company. (See Fauerbach, Daniel, assignor.)

General Electric Company. (See Anderson, Arvid E., assignor.)

General Electric Company. (See Bedford, Alda V., assignor.)

General Electric Company. (See Butler, Henry E., assignor.)

General Electric Company. (See Hilliard, John D., assignor.)

General Electric Company. (See Meador, Barclay F., assignor.)

General Electric Company. (See Parry, Robert D., assignor.)

General Electric Company. (See Reist, Henry G., assignor.)

General Electric Company. (See Tolson, William A., assignor.)

General Electric Company. (See Whitney, Willis R., assignor.)

General Electric Company. (See Wood, Alexander P., assignor.)

General Fire Extinguisher Company. (See Loepsinger, A. J., and Knight, assignors.)

General Fire Extinguisher Company. (See Moulder, Albert W., assignor.)

General Motors Corporation. (See Boca, Joseph, assignor.)

General Motors Corporation. (See Stranahan, Samuel A., assignor.)

General Motors Corporation. (See Summers, Caleb E., assignor.)

George, Harry S., Massapequa, N. Y., assignor to Electro Metallurgical Company. Illumination for microscopy. 1,784,425; Dec. 9.

Gesellschaft für Drahtlose Telegraphie m. b. H. (See von Arco, Georg, assignor.)

Giancola, Nicolas, assignor of one-half to R. L. McLaran, St. Louis, Mo. Garment-making machine. 1,784,687; Dec. 9.

Gibson, George M., assignor to Woodrow Washing Machine Company, Pella, Iowa. Gearing mechanism for washing machines. 1,784,282; Dec. 9.

Giesler, Jean V., assignor, by mesne assignments, to The Fulton Sylphon Company, Knoxville, Tenn. Valve mechanism. 1,784,053; Dec. 9.

Giesler, Jean V., assignor, by mesne assignments, to The Fulton Sylphon Company, Knoxville, Tenn. Thermostatically-controlled valve mechanism. 1,784,054; Dec. 9.

Giesler, Jean V., assignor, by mesne assignments, to The Fulton Sylphon Company, Knoxville, Tenn. Thermostatically-controlled valve mechanism. 1,784,055; Dec. 9.

Giesler, Jean V., assignor, by mesne asignments, to The Fulton Sylphon Company, Knoxville, Tenn. Thermostatically-controlled valve mechanism. 1,784,057; Dec. 9.

Giesler, Jean V., assignor, by mesne assignments, to The Fulton Sylphon Company, Knoxville, Tenn. Thermostat support. 1,784,058; Dec. 9.

Giesler, Jean V., assignor, by mesne assignments, to The Fulton Sylphon Company, Knoxville, Tenn. Thermostat support. 1,784,059; Dec. 9.

Giesler, Jean V., assignor, by mesne assignments, to The Fulton Sylphon Company, Knoxville, Tenn. Thermostatically-controlled-valve unit. 1,784,060; Dec. 9.

Giesler, Jean V., assignor to The Fulton Sylphon Company, Knoxville, Tenn. Thermostatically-controlled valve mechanism. 1,784,061; Dec. 9.

Giesler, Jean V., assignor to The Fulton Sylphon Company, Knoxville, Tenn. Temperature regulator. 1,784,062; Dec. 9.

Giesler, Jean V., assignor to The Fulton Sylphon Company, Knoxville, Tenn. Temperature regulator. 1,784,063; Dec. 9.

Giesler, Jean V., William W. Carson, jr., and T. R. Clark, assignors, by mesne assignments, to The Fulton Sylphon Company, Knoxville, Tenn. Thermostatically-controlled valve mechanism. 1,784,056; Dec. 9.

Gillet, Alexis F., assignor to Jubilee Manufacturing Company, Omaha, Nebr. Split segmental washer. 1,784,667; Dec. 9.

Gillmor, Reginald E., Washington, D. C., and R. F. Deimel, Hoboken, N. J., assignors, my mesne assignments, to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Latitude adjustment of gyrocompasses. 1,784,348; Dec. 9.

Gillooly, William, assignor to Metal Stampings Corporation, Streator, Ill. Lid control for workboxes. 1,784,518; Dec. 9.

Glaenser, Harry, Philadelphia, Pa. Engine truck on which boosters are mounted. 1,784,790; Dec. 9.

Gleichmann, Hans, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Berlin-Siemensstadt, Germany. Apparatus for and method of generating steam. 1,784,426; Dec. 9.

Globar Corporation. (See Imbery, Arthur, assignor.)

Globe Company, The. (See Leicht, Fred, assignor.)

Georig, Ernst, Mannheim, Germany. Rotary tempering furnace. 1,784,427; Dec. 9.

Gohlke, Henry C., Port Hope, Mich. Brake. 1,784,688; Dec. 9.

Goldberg, Solomon H., assignor to The Hump Hairpin Manufacturing Co., Chicago, Ill. Display card or similar article. Des. 82,740; Dec. 9.

Goldman, Barney, New York, N. Y. Hydraulic jack. 1,784,428; Dec. 9.

Goldsmith, Abraham L., and P. W. Rogers, Orono, Me. Device for expanding and contracting demountable rims. 1,784,283; Dec. 9.

Goodman, Abraham and J., Brooklyn, N. Y. Hair-waving device. 1,784,429; Dec. 9.

Goodman, Abraham and J., Brooklyn, N. Y. Barrette. 1,784,430; Dec. 9.

Goodman, Jacob. (See Goodman, Abraham and J.)

Gottschau, Christian M., Columbus, Ohio, assignor to Picture Machine Service Corporation. Motion-picture-projecting apparatus. 1,784,138; Dec. 9.

Grabelsky, Israel, New York, N. Y., assignor to Universal Fringe Works, Inc., Fringe. Des. 82,741; Dec. 9.

Grabler, Peter, Rocky River, assignor to Grabler Stabilizer Co., Cleveland, Ohio. Shock absorber. 1,784,005. Dec. 9.

Grabler Stabilizer Co. (See Grabler, Peter, assignor.)

Graffenberger, Friedrick, Milwaukee, Wis. Blade edger. 1,784,625; Dec. 9.

Graham, Stephen J. (See Farrar, John H., assignor.)

Green, Azaria M., Minneapolis, Minn. Mop holder. 1,784,588; Dec. 9.

Green, Thomas L., Indianapolis, Ind. Biscuit cutting and embossing machine. 1,784,431; Dec. 9.

Green, Thomas L., Indianapolis, Ind. Biscuit cutting and embossing machine. 1,784,432; Dec. 9.

Greenberg, Harry, Dover, N. J. Workholding implement. 1,784,589; Dec. 9.

Greene, Frederick J., assignor to The Christensen Machine Company, Racine, Wis. Delivery mechanism for signature-stitching machines. 1,784,590; Dec. 9.

Gregg, David, assignor to A C Spark Plug Company, Flint, Mich. Supercharger oiling system. 1,784,433; Dec. 9.

Greist Manufacturing Company, The (See Carmichael, A. J., and Balzano, assignors.)

Gresser, Peter, Detroit, Mich. Grease gun. 1,784,484; Dec. 9.

Griesser, Charles F. (See Gunter, W. A., and Griesser.)

Griswold, George M., Denver, Colo. Chalk-line reel. 1,784,064; Dec. 9.

Griswold, William A., Nashville, Tenn. Gas heater. Des. 82,742; Dec. 9.

Grondahl, Lars O. (See Geiger, P. H., and Grondahl.)

Grondahl, Lars, O., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Preparing resistance units. 1,784,435; Dec. 9.

Gross, Miriam, assignor to Miriam Gross Company, Milwaukee, Wis. Knitted garment. Des. 82,743; Dec. 9.

Gross, Miriam, Company. (See Gross, Miriam, assignor.)

Grover, Frederick, assignor to The Forgrove Machinery Company Limited, Leeds, England. Machine for wrapping cigars and similar articles. 1,784,349; Dec. 9.

Gruber, Karl, Rheydt, Germany. Rolling mill. 1,784,791; Dec. 9.

Grubman, Leo J., Belle Harbor, N. Y. Eye mounting for dolls. 1,784,519; Dec. 9.

Grubman, Leo J., Belle Harbor, N. Y. Eye mounting for dolls. 1,784,520; Dec. 9.

Guerin, Amedee, San Francisco, Calif. Vibration conductor for the deaf. 1,784,350; Dec. 9.

Gulf Production Company. (See Fortinberry, Howard F., assignor.)

Gullette, William A., assignor of two-thirds to S. K. Frank and one-third to Chas. A. Dick, Wheeling, W. Va., as trustee for J. E. Stevenson, V. G. Gundling, and C. A. Dick. Automobile running-board lamp. 1,784,668; Dec. 9.

Gundling, Val G. (See Gullette, William A.)

Gunter, Walter A., and C. F. Griesser, Baltimore, Md., assignors to Eugene Ltd. Hair-drying hood. 1,784,139; Dec. 9.

Gustafson, Carl J., Aberdeen, S. Dak. Humidifying device. 1,784,725; Dec. 9.

Guy, Ira D. (See Guy, William H., I. D., and R. E.)

Guy, Robert E. (See Guy, William H., I. D., and R. E.)

Guy, William H., I. D., and R. E., Stockton, Calif. Scraper-control mechanism. 1,784,284; Dec. 9.

Gwinn, Joseph M., jr., Buffalo, and R. E. Oversmith, Kenmore, assignors to Consolidated Aircraft Corporation, Buffalo, N. Y. Pulley mount. 1,784,521; Dec. 9.

Hadfield, Samuel, and G. J. Bucklitch, Lawrence, Mass. Front fluted drawing roll for gill boxes. 1,784,140; Dec. 9.

Hadley, Newton F., Beverly Hills, assignor to Chrysler Corporation, Highland Park, Mich. Propeller shaft. 1,784,436; Dec. 9.

Haehnel, Wolfram. (See Herrmann, W. O., and Haehnel.)

Hall, Elbert J., Berkeley, Calif., assignor to American Car and Foundry Motors Company, New York, N. Y. Air control for internal-combustion engines. 1,784,006; Dec. 9.

Hall, John W., Santa Ana, Calif. Capping-device valve for wells. 1,784,007; Dec. 9.

Hallowell, Howard T., assignor to Standard Pressed Steel Company, Jenkintown, Pa. Workbench. 1,784,726; Dec. 9.

Halpern, Max, Bronx, and W. Mayer, Brooklyn, N. Y. Necktie. 1,784,351; Dec. 9.

Halpern, Max, Bronx, and W. Mayer, Brooklyn, N. Y. Nectkie structure. 1,784,352; Dec. 9.

Hamill, James, East Orange, N. J. Apparatus for separating moisture from vapor. 1,784,627; Dec. 9.

Hamill, James, East Orange, N. J., and J. F. Taddiken, Forest Hills, N. Y. Bone-char-drying apparatus. 1,784,626; Dec. 9.

Hamill, Virginia, New York, N. Y., assignor to W. S. Libbey Company. Textile fabric. Des. 82,744; Dec. 9.

Hammarström, Nils L., Stockholm, and E. A. Hoving, Kungsor, assignors to Aktiebolaget Maskinfabriken Gota, Stockholm, Sweden. Mechanical movement. 1,784,185; Dec. 9.

Hargrove, George C., Westfield, and W. B. Montgomery, Elizabeth, N. J., assignors, by mesne assignments, to Gasoline Products Company, Inc., Wilmington, Del. Cracking hydrocarbons. 1,784,065; Dec. 9.

Harley, George W., Collingswood, N. J. Guide and pattern strip and anchor therefor. 1,784,353; Dec. 9.

Harlow, Lee H., assignor of one-half to G. C. Piper, Los Angeles, Calif. Single-button electric switch. 1,784,437; Dec. 9.

Harris, Gordon D., assignor to The Industrial Dryer Corporation, Stamford, Conn. Method of and apparatus for conditioning lumber and other materials. 1,784,727; Dec. 9.

Harrison-Noyes Chemical Corporation. (See Noyes, Stanley E., assignor.)

Harrison, Thomas R., Wyncote, assignor to The Brown Instrument Company, Philadelphia, Pa. Method of and apparatus for measuring. 1,784,522; Dec. 9.

Harriss, John A., New York, N. Y. Transit apparatus. 1,784,728; Dec. 9.

Hart-Carter Company. (See Smith, Louis E., assignor.)

Hartford-Empire Company. (See Steelman, Merton A., assignor.)

Hartmann, August, Montclair, assignor to Spratts' Patent, America, Limited, Newark, N. J. Exhibition bench. 1,784,438; Dec. 9.

Harvel Corporation, The. (See Hughes, Edward R., assignor.)

Harvey, Minor. (See Bayard, M. L., and Harvey.)

Hastings, Walter M., Methuen, Mass. Clearer and slub catcher for textile machines. 1,784,141; Dec. 9.

Haussmann, Karl, Kiel, assignor to Fried. Krupp Germaniawerft Aktiengesellschaft, Kiel-Gaarden, Prussia, Germany. Drive for motor boats. 1,784,354; Dec. 9.

Hawley, Kent A., assignor to Locke Insulator Corporation, Baltimore, Md. Apparatus for making insulators. 1,784,792; Dec. 9.

Hayden, Arthur C., Brockton, Mass. Motion-picture projector. 1,784,097; Dec. 9.

Hayes, Harvey C., Washington, D. C. Making subterranean surveys. 1,784,439; Dec. 9.

Haynes, John L. (See Michelson, L. M., and Haynes.)

Heal, Paul E., Marion, Ind. Lawn-sprinkler nozzle. Des. 82,745; Dec. 9.

Heaton, William H., assignor to Tufoak Products Co., Oakland, Calif. Making garments. 1,784,285; Dec. 9.

Heenan & Froude Limited. (See Walker, George H., assignor.)

Heinze, Ernst, Wiesdorf, near Cologne-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Producing hydroxides of alkali metals. 1,784,066; Dec. 9.

Heise, George W., and E. A. Schumacher, Lakewood, Ohio, assignors to National Carbon Co., Inc. Dry-battery electrolyte reenforcing means. 1,784,592; Dec. 9.

Heisey, A. H., & Company. (See Heisey, Edgar W., assignor.)

Heisey, Edgar W., assignor to A. H. Heisey & Company, Newark, Ohio. Ice receptacle. 1,784,232; Dec. 9.

Herlach, Fritz, and T. Rakula, Dusseldorf, assignors to Rheinische Metallwaaren-und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Automatic firearm with two cartridge magazines. 1,784,355; Dec. 9.

Herrmann, Willy O., and W. Haehnel, assignors to Consortium fur Elektrochemische Industrie, Munich, Germany. Adhesive composition. 1,784,008; Dec. 9.

Hershman, Paul R., assignor of one-fourth to C. O. Sethness, one-fourth to C. H. Sethness, and one-fourth to P. Rudnick, Chicago, Ill. Making easily soluble stable hypochlorites. 1,784,286; Dec. 9.

Hertzberg, Harry, Brooklyn, N. Y. Holder for dusters and the like. 1,784,287; Dec. 9.

Hertzberg, Harry, Brooklyn, assignor, by mesne assignments, to The M. Propp Co. Inc., New York, N. Y. Electric-lamp socket. 1,784,440; Dec. 9.

Herz, Richard, Frankfort-on-the-Main, and M. Schubert Fechenheim, near Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Manufacturing ortho-aminoarylmercaptanes. 1,784,441; Dec. 9.

Heuser, Ralph V., Elizabeth, N. J., assignor to American Cyanamid Company, New York, N. Y. Making substituted guanidines. 1,784,442; Dec. 9.

Heusser, Wilfrid, Salt Lake City, Utah. Casing for precision balances. 1,784,098; Dec. 9.

Hiering, William C., assignor to J. E. Mergott Company, Newark, N. J. Cigarette-package holder. Des. 82,746; Dec. 9.

Highway Trailer Company. (See Nolen, T., and Truemper, assignors.)

Highway Trailer Company. (See Williams, Leroy E., assignor.)

Hild, Frederic W., Los Angeles, Calif. Gear transmission. 1,784,593; Dec. 9.

Hilliard, John D., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,784,669; Dec. 9.

Himmel Brothers Company, The. (See Himmel, Fred and I., assignors.)

Himmel, Fred and I., assignors to The Himmel Brothers Company, New Haven, Conn. Store-front construction. 1,784,689; Dec. 9.

Himmel, Isidore. (See Himmel, Fred and I.)

Hi-Way Service Corporation. (See Kerber, Joseph H., assignor.)

Hoe, R., and Co. (See Ball, Henry V., assignor.)

Hohn, Max P. E., Dresden, assignor to The Firm "Universelle" Cigarettenmaschinen-Fabrik J. C. Muller & Co., Dresden, Germany. Cigarette-making machine. 1,784,443; Dec. 9.

Holston, James B., Baltimore, Md., assignor to The Huffman Manufacturing Company, Dayton, Ohio. Tank-vent device. 1,784,067; Dec. 9.

Holtzen, John F. (See Watts, Leo E., assignor.)

Holum, Martin, Hazel Run, Minn. Seed-corn stringer. 1,784,690; Dec. 9.

Homolle, Robert G. M., assignor to Societe Bournisien Beau & Cie., Paris, France. Cylinder lock. 1,784,444; Dec. 9.

Hopkinson, Ernest, New York, N. Y. Rubberizing fibrous material and article produced thereby. 1,784,523; Dec. 9.

Horner, John W. (See Lindgren, Peter J., assignor.)

Horspool, Francis L., Salt Lake City, Utah. Vehicle air brake. 1,784,233; Dec. 9.

Hosking, Richard T., Wilmette, assignor, by mesne assignments, to Shakeproof Lock Washer Company, Incorporated, Chicago, Ill. Material strip for spring-tooth lock washers. 1,784,142; Dec. 9.

Houston Company, The. (See Lomar, Louis L., assignor.)

Hoving, Erik A. (See Hammarström, N. L., and Hoving.)

Howe, Samuel P. (See Prior, John A., assignor.)

Howie, Kenneth, assignor to Wildman Mfg. Co., Norristown, Pa. Knitting machine. 1,784,186; Dec. 9.

Hudson, George A. (See Perry, E. W., and Hudson.)

Hueglin, Herman C., assignor to Federal Merchandise Co., Chicago, Ill. Ventilator. 1,784,234; Dec. 9.

Huff, Leslie R., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Constant-volume regulator. 1,784,009; Dec. 9.

Huffman Manufacturing Company, The. (See Holtson, James B., assignor.)

Hughes, Edward R., Morristown, N. J., assignor to The Harvel Corporation. Removing oil from the shell of the cashew nut. 1,784,628; Dec. 9.

Hughes, James W., assignor to Budd Wheel Company, Philadelphia, Pa. Apparatus for and method of fabricating wheels. 1,784,445; Dec. 9.

Hughes Tool Company. (See Fletcher, Harold W., assignor.)

Hughes Tool Company. (See Ricker, Norman H., assignor.)

Hull, J. A., Co., The. (See Melton, Wendell A., assignor.)

Hump Hairpin Manufacturing Co., The. (See Goldberg, Solomon H., assignor.)

Hunt, Wilson P., Moline, Ill. Multiple drill apparatus. 1,784,288; Dec. 9.

Hurd, Edward L., Milton, and C. B. Tibbetts, Walpole, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Tool-securing device. 1,783,961; Dec. 9.

Hussey, Nellie B., Peking, China. Lady's hand bag. Des. 82,747; Dec. 9.

Husted, H. A., Company, The. (See Kraft, Herman T., assignor.)

Hutchison, Miller R., Llewellyn Park, West Orange, N. J., assignor, by mesne assignments, to Acoustic Products Company, New York, N. Y. Loud-speaker. 1,784,594; Dec. 9.

Hutchison, Miller R., Llewellyn Park, West Orange, N. J., assignor, by mesne assignments, to Acoustic Products Company, New York, N. Y. Acoustic device. 1,784,595; Dec. 9.

Hutchison, Miller R., Llewellyn Park, West Orange, N. J., assignor, by mesne assignments, to Acoustic Products Company, New York, N. Y. Closed end resonating horn. 1,784,596; Dec. 9.

Hyde, Elbert L., Shaker Heights, Ohio. Exercising machine. 1,784,289; Dec. 9.

Hyde, Ralph E., assignor to The Oster Manufacturing Company, Cleveland, Ohio. Stamped diestock. 1,783,964; Dec. 9.

Hyde, Ralph E., assignor to The Oster Mfg. Company, Cleveland, Ohio. Diestock. 1,784,099; Dec. 9.

Hyman, Daniel N., Detroit, Mich. Cover for buses. 1,784,356; Dec. 9.

I. G. Farbenindustrie Aktiengesellschaft. (See Heinze, Ernst, assignor.)

Imbery, Arthur, Halifax, England, assignor to Globar Corporation, Niagara Falls, N. Y. Electric furnace. 1,784,670; Dec. 9.

Imler, Marvin C., Malheur County, Oreg. Shipping crate for small animals. 1,784,187; Dec. 9.

Industrial Dryer Corporation, The. (See Harris, Gordon D., assignor.)

Ingalls, Henry A., Bakersfield, Calif. Road-surfacing machine. 1,784,691; Dec. 9.

Ingersoll-Rand Company. (See Huff, Leslie R., assignor.)

Ingersoll-Rand Company. (See Jowett, James H., assignor.)

International Business Machines Corporation. (See Craig, Robert, assignor.)

International Coal Carbonization Company. (See Runge, Walter, assignor.)

International Coal Carbonization Company. (See Runge, W., and Packard, assignors.)

International Combustion Engineering Corporation. (See Davidson, P., and Crites, assignors.)

International Combustion Engineering Corporation. (See Jackson, George P., assignor.)

International Combustion Engineering Corporation. (See Wood, Wilfred R., assignor.)

International Postal Supply Company. (See Zahn, Lawrence J., assignor.)

Interstate Folding Box Company, The. (See Bergstein, Samuel, assignor.)

Jackson, George P., Flushing, N. Y., assignor to International Combustion Engineering Corporation. Coal drier. 1,783,965; Dec. 9.

Jacobi, Edward N., assignor to Briggs and Stratton Corporation, Milwaukee, Wis. Switch. 1,784,290; Dec. 9.

Jacobs Manufacturing Company, The. (See Englund, Albert E., assignor.)

Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Heating-surface-cleaning device. 1,784,629; Dec. 9.

Jardine, Frank, assignor, by mesne assignments, to The Cleveland Trust Company, Cleveland, Ohio. Piston. 1,784,291; Dec. 9.

Jarrell, W. G., Machine Company. (See Webb, Adolphus M., assignor.)

Jeffrey, Fraser, Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Induction-synchronous motor system. 1,784,235; Dec. 9.

Jegge, Emil G. (See Smith, P. S., and Jegge.)

Jehle, Ferdinand, assignor to The White Motor Company, Cleveland, Ohio. Throttle mechanism for internal-combustion engines. 1,784,671; Dec. 9.

Jenkins, Nathan, Chicago, Ill. Combination tool. 1,784,488; Dec. 9.

Jennings, R. G., Yarn Cleaning Machine Co. Inc., The. (See Jennings, Robert G., assignor.)

Jennings, Robert G., assignor to The R. G. Jennings Yarn Cleaning Machine Co. Inc., Elmira, N. Y. Detector mechanism for knitting machines. 1,784,446; Dec. 9.

Jensen, Thorvald, St. Louis, Mo., assignor to The Winther Company, Wilmington, Del. Automotive drive. 1,784,524; Dec. 9.

Johnson, Arvid W., Los Angeles, Calif. Display device. 1,784,597; Dec. 9.

Johnson Bronze Company. (See Leis, Carl H., assignor.)

Johnson, Clarence G., Hartford City, Ind. Double overhead door. 1,784,292; Dec. 9.

Johnson, Elmer E., Joplin, Mo. Game apparatus. 1,784,068; Dec. 9.

Johnson, George, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Toilet-seat hinge. 1,784,630; Dec. 9.

Johnson, James B., Poplar, Minn. Rural mail box. 1,784,447; Dec. 9.

Johnson, John A., Woodhaven, N. Y. Apparatus for feeding closure caps. 1,784,010; Dec. 9.

Johnson & Johnson. (See Mathey, Gustave S., assignor.)

Johnson, Robert S. (See Quisenberry, James H., assignor.)

Jones, Albert E., assignor to Vickers-Armstrongs Limited, Westminster, London, England. Device for carrying heavy bodies on and releasing them from aircraft. 1,784,011; Dec. 9.

Jones, Howard B., Evanston, Ill. Electrical-connection device. 1,784,236; Dec. 9.

Jones, Leo D., assignor to The Charplea Specialty Company, Philadelphia, Pa. Dewaxing petroleum oil. 1,784,525; Dec. 9.

Jones, Lyman L., Seattle, Wash., assignor to American Can Company, New York, N. Y. Line control for can-making machinery. 1,784,358; Dec. 9.

Jordan, Hans, Berlin-Steglitz, W. Schoeller, Berlin-Westend, and R. Clerc, Berlin, assignors to the firm: Chemische Fabrik auf Actien vorm. E. Schering, Berlin, Germany. Production of thymol. 1,784,598; Dec. 9.

Jordan, Hans, Berlin-Steglitz, W. Schoeller, Berlin-Westend, and R. Clerc, assignors to the firm: Chemische Fabrik auf Actien vorm. E. Schering, Berlin, Germany. Producing phenols. 1,784,599; Dec. 9.

Jordon, Reuben B., Poplarville, Miss. Tire pump. 1,784,143; Dec. 9.

Josinsky, John. (See Martin, E., and Josinsky.)

Jowett, James H., New York, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Front head for pneumatic tools. 1,784,012; Dec. 9.

Jubilee Manufacturing Company. (See Gillet, Alexis F., assignor.)

Junghans, Siegfried, Baden, Germany. Casting under pressure. 1,784,600; Dec. 9.

Kaegebehn, Charles F., Hoboken, N. J., assignor to R. T. Vanderbilt Co., Inc., New York, N. Y. Mineral-oil composition. 1,784,359; Dec. 9.

Kaegebehn, Charles F., Hoboken, N. J., assignor to R. T. Vanderbilt Co., Inc., New York, N. Y. Fatty-oil composition. 1,784,360; Dec. 9.

Kahn, Felix, San Francisco, Calif. Hanger for forms on steel-beam construction. 1,784,448; Dec. 9.

Kaiser, Ernest F., New York, N. Y. Holder. 1,784,237; Dec. 9.

Kakuda, Saibei, assignor to Saibi Mojiami Kabushiki Kaisha, Hiroshima-Ken, Japan. Operating mechanism for net-making machines. 1,784,188; Dec. 9.

Kallenbach, Ernest, Philadelphia, Pa. Brake for sleds. 1,783,966; Dec. 9.

Karolus, August, Leipzig, Germany, assignor to Radio Corporation of American. Phase-correcting coupling for picture transmission. 1,784,526; Dec. 9.

Kearney, James R., St. Louis, Mo. Guy clip. 1,783,967; Dec. 9.

Kearney, James R., St. Louis, Mo. Fastening means for cables. 1,783,968; Dec. 9.

Keck, Charles H., New York, N. Y. Propellant powder and colloiding same. 1,784,189; Dec. 9.

Keen, John S., Philadelphia, Pa. Valve gear. 1,784,729; Dec. 9.

Kelleher, Daniel, Berea, assignor to The Foote-Burt Company, Cleveland, Ohio. Nut-tapping machine. 1,784,631; Dec. 9.

Kelsey-Hayes Wheel Corporation. (See Booth, William N., assignor.)

Kelty, Charles R., Milton, Mass. Limit switch. 1,784,672; Dec. 9.

Kemp, Charles T., and N. E. Ryckman, assignors to The Coffield Washer Company of Canada Limited, Hamilton, Ontario, Canada. Liquid seal. 1,784,100; Dec. 9.

Kennedy, Albert H., Grove City, assignor to A. F. Lind, Kittanning, Pa. Combined table and ironing board. 1,784,449; Dec. 9.

Kennedy, Edward, New York, assignor to The Kennedy-Steiner Corporation, Bronx County, N. Y. Combined test T and expansion fitting for drainage and soil pipes. 1,784,238; Dec. 9.

Kennedy-Steiner Corporation, The. (See Kennedy, Edward, assignor.)

Kent, Willys P., New York, N. Y. Teaching attachment for phonographs. 1,784,489; Dec. 9.

Kerber, Joseph H., West Allis, assignor to Hi-Way Service Corporation, Milwaukee, Wis. Material-handling apparatus. 1,784,144; Dec. 9.

Kern, John B., Montclair, N. J. Guard for spectacles and eyeglasses. 1,784,013; Dec. 9.

King, C. G., & Co. (See Recchia, Orlando R., assignor.)

King, George A., assignor to Scovill Manufacturing Company, Waterbury, Conn. Attaching seat covers and the like. 1,784,361; Dec. 9.

Kingsbury, Harry T., Keene, N. H. Toy airplane landing gear. 1,784,730; Dec. 9.

Kingston, Thomas H., assignor to Builders' Patent Scaffolding Company, West Somerville, Mass. Putlog. 1,784,601; Dec. 9.

Kirby, James B., West Richfield, Ohio. Motion-arresting means for motor-propelled vehicles. 1,784,145; Dec. 9.

Kirkpatrick, Carroll P., assignor of one-half to R. M. Smith, Fellows, Calif. Valve for oil-well pumps. 1,784,602; Dec. 9.

Klahn, Emil, New Vernon, N. J. Mechanical movement. 1,784,450; Dec. 9.

Kleinschmit, Oscar, assignor to Gebrüder Brehmer, Maschinenfabrik, Leipzig-Plagwitz, Germany. Paper-folding machine. 1,784,731; Dec. 9.

Kleinsmith, Horace B., F. R. Neely, and F. W. Doll, assignors to A. H. Balliet Corporation, Allentown, Pa. Lid-wrapping machine. 1,784,632; Dec. 9.

Kline, Joseph E., Port Huron, Mich. Toy. 1,784,692; Dec. 9.

Knight, Ira W. (See Loepsinger, A. J., and Knight.)

Knight, John M., Atlantic Highlands, and Victor Willoughby, Ridgewood, assignors to American Car and Foundry Company, New York, N. Y. Car seat. 1,784,527; Dec. 9.

Knipp, Lynn A., Los Angeles, Calif. Rotary cabinet. 1,784,293; Dec. 9.

Knupp, Harry E., assignor to Caille Motor Company, Detroit, Mich. Scale. Des. 82,748; Dec. 9.

Kobe, Inc. (See Coberly, Clarence J., assignor.)

Koch, Theodoor, assignor to Algemeene Kunstzijde unie Naamlooze Vennootschap, Arnhem, Netherlands. Preparing artificial textile products with reduced luster. 1,784,014; Dec. 9.

Koehler, Marcel Levallois-Perret, assignor to Société Anonyme: Graissage "Alcyl," Levallois-Perret, Seine, France. Apparatus for lubrication by means of capillary elements. 1,784,732; Dec. 9.

Komen, Gerrit. (See van der Lande, Bernardus L. M., assignor.)

Konoff, Alexander. (See Marcus, S., and Konoff.)

Koppers Company, The. (See Becker, Joseph, assignor.)

Kraeft, Herman L., assignor to Murray Ohio Manufacturing Company, Cleveland, Ohio. Sheet-metal toy construction. 1,784,633; Dec. 9.

Kraeft, Herman L., assignor to The Murray Ohio Manufacturing Company, Cleveland, Ohio. Toy construction. 1,784,634; Dec. 9.

Kraemer, August F., assignor to Louis Stern Company, Providence, R. I. Chain assembly. 1,784,451; Dec. 9.

Kraft, Herman T., Akron, Ohio, assignor to The H. A. Husted Company, Detroit, Mich. Steering wheel. 1,784,733; Dec. 9.

Krauel, Philip L. (See Watts, G. W., Krauel, and Stockdale.)

Krauss, Carl, Leverkusen, near Cologne-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Indigoid vat dyestuffs from dihalogeno-alkylisatins. 1,784,452; Dec. 9.

Kreisler, Jacques, New Rochelle, assignor to Jacques Kreisler & Co., New York, N. Y. Jewelry. 1,784,635; Dec. 9.

Kreisler, Jacques, & Co. (See Kreisler, Jacques, assignor.)

Kreps, Elmer H. (See Allen, G. N., Parker, and Kreps.)

Kriege, Elizabeth, San Diego, Calif. Mattress. 1,784,294; Dec. 9.

Kroh, Joseph S., Chicago, Ill. Sausage-casing machine. 1,784,693; Dec. 9.

Kuwata, Tsutomu. (See Tanaka, Y., and Kuwata.)

Kwiatkowski, Joseph, Perth Amboy, N. J. Work-handling crane for locomotive appurtenances. 1,784,694; Dec. 9.

La Brie, Ludger E., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake-operating means. 1,784,295; Dec. 9.

Lage, Frederick, Gladbrook, Iowa. Sanitary poultry nest. 1,784,101; Dec. 9.

Laley, Jehan, Hayange, assignor to Les Petits Fils de Francois de Wendel & Cie., Paris, France. Recovery of the tin contained in the residues of tin-plate manufacture. 1,784,490; Dec. 9.

Lamphere, Emmet D., jr., West Rutland, Vt. Frozen-cream cutter. 1,784,603; Dec. 9.

Land, Arthur A. G., Chicago, Ill. Chain-link wire fabric. 1,784,453; Dec. 9.

Lander, Clarence I., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N, J. Last. 1,784,454; Dec. 9.

Lander, Clarence I., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. 1,784,455; Dec. 9.

Lane, Fulton, Palos Verdes Estates, and H. J. Morgan, Walnut Park, assignors to P. L. & M. Company, Los Angeles, Calif. Arc-welding apparatus. 1,784,015; Dec. 9.

Lang Electric Mfg. Company, The. (See Lang, Walter S., assignor.)

Lang, Walter S., assignor to The Lang Electric Mfg. Company, Kendallville, Ind. Electric water heater. 1,784,695; Dec. 9.

Lansing, Raymond P., Montclair, N. J., assignor to Eclipse Machine Company, Elmira Heights, N. Y. Engine starter. 1,784,190; Dec. 9.

Lapres, Theo, Jr., Inc. (See Miller, Paul R., assignor.)

Largent, Raleigh M., Walla Walla, assignor to Cheney Weeder Company, Cheney, Wash. Gang weeder with tractor hitch. 1,784,362; Dec. 9.

Larson, Charles E. (See Nelson, E. A., and Larson.)

Larson, John A., San Jose, Calif. Ball joint. 1,784,604; Dec. 9.

Larsson, Carl A., Westminster, London, assignor to Vickers-Armstrongs Limited, London, England. Mounting for automatic guns. 1,784,016; Dec. 9.

Latham, Leonard. (See Dickie, W. A., Platts, and Latham.)

Lawler, James J., Mount Vernon, N. Y. Hydrothermostatic valve control. 1,784,734; Dec. 9.

Lawrence, Cecil H., Attleboro, Mass., assignor to Evans Case Company. Table lighter. Des. 82,749; Dec. 9.

Lawson, Joel S., St. James, assignor to Memco Engineering & Manufacturing Company, Inc., New York, N. Y. Electric switch. 1,784,735; Dec. 9.

Lea Fabrics Inc. (See Smith, P. S., and Jegge, assignors.)

Lear, Sidney, Germantown, Pa. Easel support. 1,784,736; Dec. 9.

Lederer, Irving R., Providence, R. I. Wrist-watch strap. 1,784,239; Dec. 9.

Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Method and apparatus for filling upholstery. 1,784,456; Dec. 9.

Leezenbaum, Isidor. (See Walker, Thomas S., assignor.)

Lehmbeck, Frederick, New Providence, N. J. Band-saw holder. 1,784,696; Dec. 9.

Leicht, Fred., assignor to The Globe Company, Sheboygan, Wis. Steering mechanism for coaster wagons. 1,784,017; Dec. 9.

Leins, Oscar J., assignor to Claus Manufacturing Co., Milwaukee, Wis. Valve structure. 1,784,636; Dec. 9.

Leis, Carl H., assignor to Johnson Bronze Company, New Castle, Pa. Machine for babbitting sleeve bearings. 1,784,146; Dec. 9.

Lemon, Oren O. (See Frantz, V. L., and Lemon.)

Lenckerstorf, Heinrich. (See Clasen, F., and Lenckerstorf.)

Les Petits Fils de Francois de Wendel & Cie. (See Laley, Jehan, assignor.)

Lester, George, Milwaukee, Wis. Golfer's practice target. 1,784,363; Dec. 9.

Levan, John F., Elkhart, Ind., assignor to The Adams & Westlake Company, Chicago, Ill. Sash latch. 1,784,147; Dec. 9.

Levinson, David, assignor to Wilson-Western Sporting Goods Co., Chicago, Ill. Guard for athletes. 1,784,148; Dec. 9.

Lewis, Wilfred, Haverford, assignor to The Tabor Manufacturing Company, Philadelphia, Pa. Molding machine. 1,784,457; Dec. 9.

Leyland, Alfred, Taddington, near Buxton, England. Building structure. 1,784,808; Dec. 9.

Libbey, W. S., Company. (See Hamill, Virginia, assignor.)

Lidke, George E. (See Lidke, Otto F. and G. E.)

Lidke, Otto F. and G. E., Denton; said Otto F. Lidke assignor to one-fourth to L. A. Yoder, Rumulus, Mich. Electric heating apparatus. 1,784,528; Dec. 9.

Linaker, Frederick W., and T. M. Bruback, Du Bois, Pa. Rotary soot cleaner for boilers. 1,784,491; Dec. 9.

Lincoln Electric Company, The. (See Lincoln, J. F., and Dreese, assignors.)

Lincoln, James F., East Cleveland, and E. E. Dreese, Euclid, assignors to The Lincoln Electric Company, Cleveland, Ohio. Dynamo-electric machine. 1,784,102; Dec. 9.

Lind, Adolph F. (See Kennedy, Albert H., assignor.)

Lindauer, Jules, Paris, France. Lacing device for corsets and like articles. 1,784,458. Dec. 9.

Lindgren, Peter J., assignor to J. W. Horner, Denver, Colo. Pipe connection. 1,784,637; Dec. 9.

Lindley, Alva A., Spokane, Wash. Boiler. 1,784,149; Dec. 9.

Lipsius, Samuel, New York, N. Y. Powdering machine. 1,784,459; Dec. 9.

Littlefield, Lloyd M., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Packing tubes. 1,784,366; Dec. 9.

Lloyd, Arthur, assignor to Bakelite Limited, London, England. Manufacture of mica tubes and sheets. 1,784,737; Dec. 9.

Locke Insulator Corporation. (See Hawley, Kent A., assignor.)

Locke Insulator Corporation. (See Rowland, Davidge H., assignor.)

Loepsinger, Albert J., and I. W. Knight, assignors to General Fire Extinguisher Company, Providence, R. I. Adjusting unit for heating systems. 1,784,673; Dec. 9.

Loftin, Edward H., Washington, D. C., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Amplifier of electrical currents. 1,784,150; Dec. 9.

Lomar, Louis L., assignor of forty-nine one hundredths to The Houston Company, Houston, Tex. Shock absorber. 1,784,529; Dec. 9.

Long, Armistead R., Scarbro, W. Va. Temporary extension for mine railways. 1,784,367; Dec. 9.

Long, Everett N., jr. (See Renton, D. M., Long, and Murphy.)

Lorentz, Valentin, assignor to United Cigarette Machine Company Aktiengesellschaft, Dresden, Germany. Process and device for improving cigarettes. 1,784,296; Dec. 9.

Loucks, James F., Cleveland, Ohio, assignor to Detroit Steel Products Company, Detroit, Mich. Sheet-metal building construction. 1,784,368; Dec. 9

Lougovoy, Boris N., assignor to Ellis-Foster Company, Montclair, N. J. Floor rug and making same. 1,784,503; Dec. 9.

Love, Francis B., and B. H. Smith, assignors to The Autocall Company, Shelby, Ohio. Combination fire alarm and watchman's recording box. 1,784,530; Dec. 9.

Lovekin, Luther D., Wynnewood, Pa. Lock joint. 1,784,492; Dec. 9.

Lowenbaum, R., Mfg. Co. (See Lowenbaum, Ralph, assignor.)

Lowenbaum, Ralph, assignor to R. Lowenbaum Mfg. Co., St. Louis, Mo. Woman's combination or convertible garment. 1,784,369; Dec. 9.

Lucius, George P., Ruleville, Miss. Combination plow. 1,784,738; Dec. 9.

Lucker, Millard B., Benton Harbor, Mich., assignor Auto Specialties Manufacturing Company. Recoil check. 1,784,739; Dec. 9.

Ludwig, Hans, Homburg-on-the-Hohe, Germany. Shock absorber. 1,784,191; Dec. 9.

Lurgi-Gesellschaft für Wärmetechnik m. b. H. (See Rüder, Heinrich B., assignor.)

Lynds, Walter A., Boston, Mass. Collapsible basket support. 1,784,240; Dec. 9.

Lynn, John P., assignor to Dur-O-Lite Pencil Co., Chicago, Ill. Clip. 1,784,605; Dec. 9.

MacFarlane, Arthur D., Los Angeles, Calif. Engine construction. 1,784,192; Dec. 9.

Macneir, Donald B., New York, N. Y. Railway tie. 1,784,606; Dec. 9.

Maerlender, Henry G. and H. A., Cleveland, Ohio. High-frequency transformer. 1,784,297; Dec. 9.

Maerlender, Hugo A. (See Maerlender, Henry G. and H. A.)

Mahan, Charles B., and C. M. Weber, Rochester, N. Y., assignors to Weber Machine Corporation. Wire-stripping machine. 1,784,298; Dec. 9.

Malcom, Robert, Chicago, Ill. Goggles. 1,784,151; Dec. 9.

Malleable Iron Range Company. (See Rogers, Frederick W., assignor.)

Many, Fillette C., Kalamazoo, Mich. Tie for cards, sheets, etc. 1,784,299; Dec. 9.

Marchetti, Annibale. (See Centofanti, S., and Marchetti.)

Marcus, Samuel, Brooklyn, and A. Konoff, New York, N. Y., assignors to Markon Mfg. Co., Inc., New York, N. Y. Eye set for dolls and like toys. 1,784,531; Dec. 9.

Markel, Orville. (See Masterson, M., and Markel.)

Markley, Milton, Harrisburg, Pa., assignor to The Rail Joint Company, New York, N. Y. Construction for rehabilitating rail joints. 1,784,370; Dec. 9.

Markon Mfg. Co. (See Marcus, S., and Konoff, assignors.)

Marks, Charles K., Womelsdorf, and W. G. Weinhold, Shillington, Pa. Concrete mixer. 1,784,371; Dec. 9.

Marschke Manufacturing Company. (See Decker, Alonzo G., assignor.)

Marshall, William, and L. S. Woodhull, assignors to Briggs Manufacturing Company, Detroit, Mich. Seat assembly. 1,784,241; Dec. 9.

Mart, Leon T., Kansas City, Mo. Spray cooling device. 1,784,019; Dec. 9.

Martin, Eugene, Freeport, and J. Josinsky, Bayside, N. Y. Current controlling or insulating device for ignition systems. 1,784,697; Dec. 9.

Martin, Frank J., Weirton, W. Va. Dry pipe for steam boilers. 1,784,638; Dec. 9.

Maschinenfabrik Beth, Aktiengesellschaft. (See Clasen, F., and Lenckerstorf, assignors.)

Masterson, Meckley, and O. Markel, Chicago, Ill. Leak-preventing seal. 1,784,104; Dec. 9.

Mathey, Gustave S., Elizabeth, N. J., assignor to Johnson & Johnson, New Brunswick, N. J. Adhesive. 1,784,740; Dec. 9.

Maxant, Frank, Ayer, Mass. Railway-car journal box. 1,784,069; Dec. 9.

Mayer, Williams. (See Halpern, M., and Mayer.)

Mayle, George F. A. (See Shevlin, Joseph P., assignor.)

McBride, John J., Bayonne, N. J., assignor to American Car and Foundry Company, New York, N. Y. Valve assembly. 1,784,460; Dec. 9.

McBride, John J., Bayonne, N. J., assignor to American Car and Foundry Company, New York, N. Y. Securing means for internal-combustion engines. 1,784,461; Dec. 9.

McCarty, Edmond J., Chicago, Ill. Car reraller. 1,784,741; Dec. 9.

McCaskell, Jasper A., Salt Lake City, Utah. Cake-discharging means for pressure filters. 1,784,372; Dec. 9.

McCaskey Register Company, The. (See Dunning, William E., assignor.)

McDonald, Leonard, Houston, Tex. Lettering machine. 1,784,152; Dec. 9.

McFarland, Parley E., assignor to J. L. Wortham, Rockford, Ill. Automatic exhibitor. 1,784,607; Dec. 9.

McGill Manufacturing Company. (See Despard, Victor R., assignor.)

McGrew, Earl E., assignor to McGrew Machine Company, Lincoln, Nebr. Combined shade and awning. 1,784,300; Dec. 9.

McGrew Machine Company. (See McGrew, Earl E., assignor.)

McKinley, Benjamin P., Bridgeport, Conn., assignor to The Bryant Electric Company. Electrical connecter. 1,784,020; Dec. 9.

McLaran, Robert L. (See Giancola, Nicholas, assignor.)

McNabb, William R., William D. Farley, and F. J. Starcher, Long Beach, Calif. Piston expander. 1,784,018; Dec. 9.

McNally, James G. (See Sheppard, S. E., and McNally.)

McOsker, Ernest L., Preston, Kans. Spring-tooth cultivator. 1,784,193; Dec. 9.

Meador, Barclay F., Kansas City, Mo., assignor to General Electric Company. Control system. 1,784,639; Dec. 9.

Mekler, Lev A., Chicago, Ill. Massaging device. 1,784,301; Dec. 9.

Melton, Wendell A., assignor to The J. A. Hull Co., Tulsa, Okla. Apparatus for inducing flow of oil from wells. 1,784,242; Dec. 9.

Memco Engineering & Manufacturing Company. (See Lawson, Joel S., assignor.)

Mergott, J. E., Company. (See Hiering, William C., assignor.)

Merk, Friedrich, Frankfort-on-the-Main, Germany. Telephone system. 1,784,698; Dec. 9.

Mershon, Ralph D., New York, N. Y. Electrode for electrolytic condensers and the like. 1,784,532; Dec. 9.

Mershon, Ralph D., New York, N. Y. Film formation and operation of electrolytic condensers and other apparatus. 1,784,674; Dec. 9.

Messmer Brass Company. (See Messmer, Joseph, assignor.)

Messmer, Joseph, Kirkwood, assignor to Messmer Brass Company, St. Louis, Mo. Steam trap. 1,784,153; Dec. 9.

Metal Stampings Corporation. (See Gillooly, William, assignor.)

Meuer, George J. (See Stevens, W. C., and Meuer.)

Meyer, Franz, assignor to the firm of Carl Zeiss, Jena, Germany. Governor switch for electric motors. 1,784,675; Dec. 9.

Meyer, Henry, Long Island, N. Y. Valve-controlled switch for electric grinders. 1,784,493; Dec. 9.

Meyers, Roy L, Janesville, Wis. Automatic pipe damper. 1,784,608; Dec. 9.

Michelson, Lawrence M., and J. L. Haynes, St. Louis, Mo. Stool seat. 1,784,021; Dec. 9.

Michigan Silo Company, The. (See Zuber, E. F., and Dowling, assignors.)

Midland Steel Products Company, The. (See Sneed, John, assignor.)

Miguet, Paul L. J., St.-Julien-de-Maurienne, France. Automatic charging of electric furnaces. 1,784,699; Dec. 9.

Miles, William B., Downers Grove, Ill. Child's vehicle. Des. 82,750; Dec. 9.

Miles, William B., Downers Grove, Ill. Child's vehicle. Des. 82,751; Dec. 9.

Miles, William B., Downers Grove, Ill. Child's vehicle. Des. 82,752; Dec. 9.

Miles, William B., Downers Grove, Ill. Child's vehicle. Des. 82,753; Dec. 9.

Miles, William B., Downers Grove, Ill. Child's vehicle. Des. 82,754; Dec. 9.

Miller, Carl, New York, N. Y. Sanitary telephone device. 1,784,700; Dec. 9.

Miller, Edward S. (See Townsend, A. J., and Miller.)

Miller, John A., Nazareth, Pa., and E. P. Newhard, Kingsport, Tenn. Producing ground raw material for Portland cement manufacture. 1,784,462; Dec. 9.

Miller, Paul R., New York, N. Y., assignor to Theo. J. Lapres, Inc., Atlantic City, N. J. Carton. Des. 82,755; Dec. 9.

Miller, William, Ritzville, Wash. Door-opening device. 1,784,374; Dec. 9.

Miller, William J., Swissvale, Pa. Pottery mold and making the same. 1,784,873; Dec. 9.

Millikan, Robert A., and R. W. Sorensen, assignors to California Institute of Technology, Pasadena, Calif. Conditioning electric switches. 1,784,302; Dec. 9.

Millikan, Robert A., and R. W. Sorensen, assignors to California Institute of Technology, Pasadena, Calif. Alternating-power current interrupter. 1,784,303; Dec. 9.

Millspaugh, William H., assignor to The Paper & Textile Machinery Company, Sandusky, Ohio. Paper-making machine. 1,783,969; Dec. 9.

Millspaugh, William H., assignor to The Paper & Textile Machinery Company, Sandusky, Ohio. Paper-making machine. 1,783,970; Dec. 9.

Minikhiem, George F., Syracuse, N. Y. Lawn-trimming device. 1,784,022; Dec. 9.

Minneapolis-Moline Power Implement Company. (See Seaholm, John P., assignor.)

Miquet, Louis E., Neuilly, France. Lock. 1,783,971; Dec. 9.

Mitchell, Charles G., Miami, Fla. Automatic transmission. 1,784,742; Dec. 9.

Mitchell, Doran, New York, N. Y., assignor to American Telephone and Telegraph Company. Transmission frequency-delay-measuring circuit. 1,784,194; Dec. 9.

Mitchell, John, assignor to Charcolite Corporation, Clinton, Ind. Apparatus for carbonizing coal. 1,784,676; Dec. 9.

Mitchell, Joseph S., Chicago, Ill., assignor to Sullivan Machinery Company. Drilling apparatus. 1,784,154; Dec. 9.

Moffet, Lloyd A., Fremont, Nebr. Spraying device. 1,784,243; Dec. 9.

Mohun, John L., and H. Piesch, Omaha, Nebr., assignors to National Lock Washer Company, Newark, N. J. Curtain fixture. 1,784,375; Dec. 9.

Moineau, Hector E., Marlboro, Mass. Soap holder. 1,784,155; Dec. 9.

Molins, Walter E., Deptford, London, England. Packing cigarettes and like articles. 1,784,701; Dec. 9.

Möller, Fritz, assignor to Demag Aktiengesellschaft, Duisburg, Germany. Electrically-operated edge-driven roll. 1,784,304; Dec. 9.

Monkhouse, Joseph L., Guelph, Ontario, Canada. Excelsior-cutting machine. 1,784,305; Dec. 9.

Montgomery, Harry A., assignor to Sani-Loc Cabinet Company, Louisville, Ky. Receiving and dispensing cabinet. 1,784,743; Dec. 9.

Montgomery, Walter B. (See Hargrove, G. C., and Montgomery.)

Moore, David P., Avon Park, Fla. Paper mulch and reenforcing and retaining means therefor. 1,784,376; Dec. 9.

Moore, George A., Boston, Mass. Set screw. 1,784,377; Dec. 9.

Morano, James E., assignor of one-third to A. De Marco, Hammonton, N. J. Cranberry gatherer. 1,784,702; Dec. 9.

Morgan, Edmund C., deceased; O. E. Morgan, executrix, New York, N. Y. Apparatus for mining and loading coal. 1,784,156. Dec. 9.

Morgan, Harry J. (See Lane, F., and Morgan.)

Morgan, Olive E., executrix. (See Morgan, Edmund C.)

Morland & Impey Limited. (See Power, Richard F., assignor.)

Morris, John R., Philadelphia, Pa. Adjustable pipe suspender. 1,784,244; Dec. 9.

Morris, Levi C., North Canton, Ohio. Electric program clock. 1,784,195; Dec. 9.

Morse Chain Company. (See Perry, David B., assignor.)

Morse Chain Company. (See Thompson, Fred C., assignor.)

Morse, Frank L., Ithaca, N. Y. Drive chain. 1,784,023; Dec. 9.

Mortensen, Chris. (See Christiansen, N., and Mortensen.)

Morton, Benjamin A., New York, N. Y. Sectional illuminated sign. 1,784,677; Dec. 9.

Morton, Harold A., Akron, Ohio. Vulcanization accelerator. 1,784,703; Dec. 9.

Morton, William F., Portland, Oreg. Sign. 1,784,704; Dec. 9.

Moses, Cassie R., Davenport, Iowa. Umbrella. 1,783,972; Dec. 9.

Moss, Effie H., Chillicothe, Ohio. Soft rubberlike composition. 1,784,070; Dec. 9.

Moulder, Albert W., Warren, Ohio, assignor to General Fire Extinguisher Company, Providence, R. I. Heating system. 1,784,609; Dec. 9.

Mueller Co. (See Smith, Marion F., assignor.)

Muhlfeld, John E., Scarsdale, and J. C. Chapple, Brooklyn, N. Y. Locomotive superheater. 1,784,378; Dec. 9.

Mulford, Logan W., Long Island City, N. Y. Vault light, floor light, or skylight. 1,784,678; Dec. 9.

Muller, Frederick W., Atlanta, Ga. Type-form storage and lock-up frame. 1,784,533; Dec. 9.

Multicolor Ltd. (See Fairall, Harry K., assignor.)

Münch, Eduard, Ludwigshafen-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Reducing organic keto compounds. 1,784,379; Dec. 9.

Murdoch, Walter B., assignor to The Stanley Works, New Britain, Conn. Bit or drill holder. 1,784,380; Dec. 9.

Murphy, Anson E. (See Renton, D. M., Long, and Murphy.)

Murphy, Frank J., Floral Park, assignor to S. W. Farber, Inc., Brooklyn, N. Y. Swiveled lamp-shade support. 1,784,306; Dec. 9.

Murray, Frederick. (See Ford, J. S., and Murray.)

Murray Ohio Manufacturing Company. (See Kraeft, Herman L., assignor.)

Myers, F. E., & Brother Company, The. (See Myers, Philip A., assignor.)

Myers, Philip A., assignor to The F. E. Myers & Brother Company, Ashland, Ohio. Pump-motor support. 1,784,245; Dec. 9.

Naamlooze Vennootschap Technisch- en Handelsbureau Van Vliet en Zonen. (See Bernaerts, Henricus, F. J., assignor.)

Naggatz, Frank H., Fairmount, N. Dak. Adjustable license-plate holder. 1,784,196; Dec. 9.

Nasu, Otohei. (See Bowler, G. H., and Nasu.)

Nathanson, Isidore. (See Rodstein, H., and Nathanson.)

National Carbon Co. (See Heise, G. W., and Schumacher, assignors.)

National Lead Company. (See Newell, James S., assignor.)

National Lock Washer Company. (See Mohun, J. L., and Piesch, assignors.)

National Marking Machine Company, The. (See Constable, Charles E., assignor.)

National Products-Supply Company. (See Broeman, Frank C., assignor.)

National Supply Company of Delaware, The. (See Timbs, E., and Zerbe, assignors.)

Natwick, Albert G., St. Catherines, Ontario, Canada. Circulating apparatus for wood-pulp digesters. 1,784,197; Dec. 9.

Neely, Frank R. (See Kleinsmith, H. B., Neely, and Doll.)

Negley, Frank H., South Bend, Ind., assignor to Wilson Brothers, Chicago, Ill. Underwear or athletic pants. 1,784,744; Dec. 9.

Nelson, Earl A., Minneapolis, and C. E. Larson, St. Louis Park, Minn. Combined dental lathe and vibrator. 1,784,307; Dec. 9.

Neuland, Alfons H., assignor to Electro-Mobile Corporation, Irvington, N. J. Automatic power transmission. 1,784,308; Dec. 9.

Neuland, Alfons H., assignor to Electric-Mobile Corporation, Irvington, N. J. Power-transmission device. 1,784,309; Dec. 9.

Newell, James S., assignor to National Lead Company, St. Louis, Mo. Machine for welding. 1,784,024; Dec. 9.

New England Filter Corporation, The. (See Dardani, Martin E. E., assignor.)

Newhall, Henry B., Corporation. (See Pleister, Henry W., assignor.)

Newhard, Edmund P.. (See Miller, J. A., and Newhard.)

Newman, David F., Freeport, assignor to Trans-Lux Daylight Picture Screen Corporation, New York, N. Y. Projection screen. 1,783,973; Dec. 9.

Newman, William A., Montreal, Quebec, Canada. Water-gauge guard. 1,784,247; Dec. 9.

Newton, Harry W., Denver, Colorado, assignor to The Dorr Company, New York, N. Y. Classifying and washing apparatus. 1,784,246; Dec. 9.

Nice, Budd G., Hatboro, Pa. Making cylindrical rollers. 1,784,463; Dec. 9.

Nichol Manufacturing Company. (See Nichol, Orr T., assignor.)

Nichol, Orr T., assignor to Nichol Manufacturing Company, Omaha, Neb. Tractor pilot structure. 1,784,534; Dec. 9.

Nier, Ernst B., Beierfeld, Germany. Effecting rotary operations in step presses. 1,784,745; Dec. 9.

Nigro, Michel, Worcester, and W. H. Blount, West Brookfield, assignors to Sleeper & Hartley, Inc., Worcester, Mass. Wire-stranding machine. 1,784,105; Dec. 9.

Noble, Warren, Detroit, Mich. Poppet valve. 1,784,640; Dec. 9.

Nolen, Truly, and J. C. Truemper, Indianapolis, Ind., assignors to Highway Trailer Company, Edgerton, Wis. Roll-top cover for dumping vehicles. 1,784,248; Dec. 9.

Norman, Frank M., Galena, Ill. Boat. 1,784,071; Dec. 9.

Norton, Ralph H., assignor to Acme Steel Company, Chicago, Ill. Strap-stretching device. 1,784,025; Dec. 9.

Norton, Raymond P., Algona, assignor of one-half to W. A. Norton, Marshalltown, Iowa. Coin-controlled mechanism. 1,784,249; Dec. 9.

Norton, William A. (See Norton, Raymond P., assignor.)

Noyes, Stanley E., Los Angeles, assignor to Harrison-Noyes Chemical Corporation, Ltd., Long Beach, Calif. Composition for dentures. 1,784,250; Dec. 9.

Numans, Johannes J., Eindhoven, Netherlands, assignor to Radio Corporation of America. Modulating system. 1,784,610; Dec. 9.

Oglesby, Nicholas E., and F. R. Weaver, Edgewood, Md. Process and apparatus for atomizing materials from moving aircraft. 1,784,157; Dec. 9.

Ohio Rubber Company, The. (See Bronson, Budd, assignor.)

Oildraulic Lift Company. (See Stukenborg, Louis C., assignor.)

Oldfield, William H., Rochester, N. Y. Lavatory or washstand. 1,784,641; Dec. 9.

Oliver, Marshall F., Charlottesville, Va. Electric fan. 1,784,072; Dec. 9.

Olsen, Corrine, et al. (See Olsen, Emil J., assignor.)

Olsen, Emelia, et al. (See Olsen, Emil J., assignor.)

Olsen, Emil J., North St. Paul, assignor of one-fourth to E. Olsen, one-fourth to C. Olsen, and one-fourth to V. Olsen, St. Paul, Minn. Auxiliary air-pressure stop. 1,784,705; Dec. 9.

Olsen, Vernon, et al. (See Olsen, Emil J., assignor.)

Olson, Carl G., assignor to Shakeproof Lock Washer Company, Chicago, Ill. Self-locking screw. 1,784,026; Dec. 9.

Olsson, Anders H. and O. D. Peterson, Lidkoping, Sweden. Alarm apparatus for the prevension of gas poisoning. 1,783,974; Dec. 9.

Oneida Community, Limited. (See Allen, G. N., Parker, and Kreps, assignors.)

O'Neil, Cornelius J., Oak Park, Ill. Ornamenting surfaces. 1,784,495; Dec. 9.

O'Neill, Edward J., Syracuse, assignor to Sterilek Company, Inc., Brooklyn, N. Y. Machine for cutting angular ends. 1,784,494; Dec. 9.

Orange Roller Bearing Company. (See Darby, George A., assignor.)

Oshkosh Trunk Company. (See Bartlett, John H., jr., assignor.)

Osman, Ralph T., Mansfield, Ohio. Vehicle dump body. 1,784,464; Dec. 9.
Osmer, James H. (See Ziser, G. J., and Osmer.)
Oster Manufacturing Company, The. (See Hyde, Ralph E., assignor.)
Osterby, Wayne, Astoria, Oreg. Fireman's hose spanner and scaling hook. 1,784,535; Dec. 9.
O'Stroske, Frank J., Columbus, Ohio. Valve. 1,784,381; Dec. 9.
Otts, William J., San Francisco, Calif. Badge. Des. 82,756; Dec. 9.
Ousdal, Asbjörn P., Santa Barbara, Calif. Apparatus for utilizing solar radiations for therapeutic purposes. 1,784,382; Dec. 9.
Oversmith, Ralph E. (See Gwinn, J. M., jr., and Oversmith.)
Owen, William. (See Fox, J. H., and Owen.)
P. L. & M. Company. (See Lane, F., and Morgan, assignors.)
Pacific Clay Products. (See Collins, Walter H., assignor.)
Packard, Edwin A. (See Runge, W., and Packard.)
Pacz, Aladar, East Cleveland, Ohio. Coating zinc and cadmium. 1,784,106; Dec. 9.
Palace Poultry Car Company. (See Edgerton, Israel V., assignor.)
Pantenburg, Vitalis, Frankfort-on-the-Main, Germany, assignor to American Lurgi Corporation, New York, N. Y. Regeneration of adsorption material. 1,784,536; Dec. 9.
Papendick, Inc. (See Tewes, Anthony, assignor.)
Paper & Textile Machinery Company, The. (See Millspaugh, William H., assignor.)
Pardee, Harvey S., Ravinia, assignor to J. R. Blackhall, Chicago, Ill. Control system. 1,784,310; Dec. 9.
Parker, Grover, Red Bank, N. J. Truck. 1,784,746; Dec. 9.
Parker, Leslie M., Evanston, Ill. Demountable structure. 1,784,107; Dec. 9.
Parker, Mary G. (See Allen, G. N., Parker, and Kreps.)
Parker, Ralph W., Falmouth, Nova Scotia, Canada. Safety milk-bottle container. 1,784,073; Dec. 9.
Parry, Robert D., Northway, England, assignor to General Electric Company. Electrical regulator. 1,784,642; Dec. 9.
Paterson, John T. H., Chicago, Ill. Cord tie. 1,784,679; Dec. 9.
Patrone, Eugene, Washington, D. C. Tire rim. 1,784,383; Dec. 9.
Patterson, Duncan W., Douglaston, N. Y., assignor, by mesne assignments, to American La France and Foamite Corporation. Method of and system for generating fire-extinguishing foam. 1,784,680; Dec. 9.
Paugh, James J., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Water-cooled welding cable-joint construction. 1,784,384; Dec. 9.
Pauling, Harry, Berlin, Germany. Apparatus for the production of ammonia-air mixtures. 1,784,074; Dec. 9.
Pearce, Charles F., jr., assignor to Burton-Dixie Corporation, Chicago, Ill. Textile fabric. Des. 82,757; Dec. 9.
Pearson, Alfred, assignor of one-half to F. A. Freed, Rockford, Ill. Garden tool. 1,784,108; Dec. 9.
Peckelhoff, Bruno, Rahlstedt, near Hamburg, Germany. Fuel burner. 1,784,747; Dec. 9.
Pedelty, Walter B., Mason City, Iowa. Pulverizing process and apparatus. 1,783,975; Dec. 9.
Peerless Pump Company. (See Wintroath, John A., assignor.)
Peirce, Clarence A. (See Buckendale, L. R., and Peirce.)
Pelster, Edwin W., St. Louis, Mo. Axle structure. 1,783,977; Dec. 9.
Pelton, John C., Santa Barbara, Calif. Compacting mechanism. 1,784,385; Dec. 9.
Pepper, Byron J., Fort Wayne, Ind. Thermostat. 1,784,465; Dec. 9.
Perry, David B., assignor to Morse Chain Company, Ithaca, N. Y. Lubricating system for chain drives. 1,783,978; Dec. 9.
Perry, Edward W., and G. A. Hudson, Winnipeg, Manitoba, Canada. Pocket holder. 1,784,312; Dec. 9.
Perry, Miles D., Parkers Landing, Pa. Oil-well pulling machine. 1,784,311; Dec. 9.
Persson, Edwin, Estevan, Saskatchewan, Canada. Closure cap for radiators, water tanks, pressure tanks, gas tanks, and the like. 1,784,198; Dec. 9.
Peterson, Martin J., Selma, Calif. Beach canopy. 1,784,199; Dec. 9.
Peterson, Per D. (See Olsson, A. H., and Peterson.)
Petroleum Conversion Corporation. (See Beardsley, E. W., and Colony, assignors.)
Phillips, Jacob M., Pillow, Pa. Pump. 1,784,706; Dec. 9.
Pickup, George E., assignor to The Wehrle Company, Newark, Ohio. Oven structure for electric ranges. 1,784,201; Dec. 9.
Picture Machine Service Corporation. (See Gottschau, Christian M., assignor.)
Piepenbring, Gustave A., Stratford, assignor to The American Fabrics Company, Bridgeport, Conn. Ironing machine. 1,784,200; Dec. 9.
Piesch, Henry. (See Mohun, J. L., and Piesch.)
Piggott, Hattie A. (See Piggott, Warren M., assignor.)
Piggott, Warren M., assignor to H. A. Piggott, Bay City, Mich. Aircraft construction. 1,784,027; Dec. 9.
Piper, Grover C. (See Harlow, Lee H., assignor.)
Pittman, Artemus E., Muscogee, Fla. Combined cotton blocker and cultivator. 1,784,318; Dec. 9.
Pittsburgh Plate Glass Company. (See Fox, J. H., and Owen, assignors.)
Place, Charles H., New Rochelle, N. Y. Raincoat. 1,784,158; Dec. 9.
Platts, Thomas H. (See Dickie, W. A., Platts, and Latham.)
Pleister, Henry W., Westfield, assignor to Henry B. Newhall Corporation, Garwood, N. J. Combined bolt anchor and support. 1,783,976; Dec. 9.
Plishker, Herbert E., Flushing, N. Y., assignor to Westinghouse Lamp Company. Wrapper for a box or carton. Des. 82,758; Dec. 9.
Plumer, James T., Detroit, Mich. Sprinkler. 1,784,251; Dec. 9.
Poeck, Max, New York, N. Y. Sanitary cigarette. 1,784,386; Dec. 9.
Polanyi, Michael, Berlin-Zehlendorf-Mitte, and S. von Bogdandy, Berlin-Dahlem, Germany. Producing bodies consisting of a plurality of thin alternately conducting and insulating layers. 1,784,611; Dec. 9.
Pollard, Eugene R., Miami, Ariz. Wedge-cutting machine. 1,784,028; Dec. 9.
Porter, William C., Bogalusa, La. Paper weight. 1,784,707; Dec. 9.
Postel, John W., Palisade, N. J. Brake mechanism for motor vehicles. 1,784,887; Dec. 9.
Potdevin, Adolph, Garden City, assignor to Potdevin Machine Company, Brooklyn, N. Y. Garment bag. 1,783,979; Dec. 9.
Potdevin Machine Company. (See Potdevin, Adolph, assignor.)
Potter, Henry N., Encinitas, Calif. Rotary sprinkler. 1,784,314; Dec. 9.
Power, Richard F., Hampstead, London, assignor to Morland & Impey Limited, Birmingham, England. Transfer-binding case and release stand therefor. 1,784,315; Dec. 9.
Preist, Thomas P., Cheshire, England, assignor to Associated Telephone and Telegraph Company, Kansas City, Mo. Testing device for impulse senders. 1,784,612; Dec. 9.
Preston, Fredrick L., Mobile, Ala. Chemical furnace. 1,784,109; Dec. 9.
Prior, John A., Philadelphia, Pa., assignor of one-half to S. P. Howe, Camden, N. J. Double automatic clutch. 1,784,793; Dec. 9.
Propp, Louis, assignor to The M. Propp Co. Inc., New York, N. Y. Electric socket fitting. 1,784,388; Dec. 9.
Propp, M., Co. Inc., The. (See Hertzberg, Henry, assignor.)
Propp, M., Co. Inc., The. (See Propp, Louis, assignor.)
Prutzman, Paul W. (See Wheeler, R. C., and Prutzman.)
Pugh, John V., and G. T. Bayliss, Coventry, England; said Bayliss assignor to said Pugh. Rotational driving connection. 1,784,708; Dec. 9.
Quigan, Frank J., Jackson Heights, N. Y. Hand bag and frame therefor. 1,784,748; Dec. 9.
Quisenberry, James H., assignor of one-half to R. S. Johnson, Louisville, Ky. Electro holder. 1,784,075; Dec. 9.
Radio Corporation of America. (See Karolus, August, assignor.)
Radio Corporation of America. (See Loftin, Edward H., assignor.)
Radio Corporation of America. (See Numans, Johannes J., assignor.)
Radio Corporation of America. (See Van Dyck, Arthur F., assignor.)
Rafalski, Walter, Philadelphia, Pa. Bathtub attachment. 1,784,749; Dec. 9.
Rail Joint Company, The. (See Markley, Milton, assignor.)
Railway Metal Products Company. (See Sisson, Vinton E., assignor.)
Rakula, Theodor. (See Herlach, F., and Rakula.)
Ratto, Joseph, Brooklyn, N. Y. Emergency-brake lever and lock. 1,784,750; Dec. 9.
Rau, William G., Louisville, Ky. Necktie holder. 1,784,537; Dec. 9.
Raymond, Fred I., River Forest, Ill. Control apparatus for heating systems. 1,784,538; Dec. 9.
Rebikoff, Wassily, assignor to Leonide Davydoff, Paris, France. Double-control device for phonographs. 1,784,159; Dec. 9.
Recchia, Orlando R., Cranston, assignor to C. G. King & Co., Inc., Providence, R. I. Shoe ornament. Des. 82,759; Dec. 9.
Reeb, Leyle B., Roselle, N. J. Window frame. 1,784,751; Dec. 9.
Reed, William R. (See Britton, E. C., and Reed.)
Reeves Manufacturing Company, The. (See Curtis, Rowland J., assignor.)
Reist, Henry G., Schenectady, N. Y., assignor to General Electric Company. Making stators for dynamo-electric machines. 1,784,643; Dec. 9.
Reiter, Daniel I., New York, N. Y. Shiftable fastener. 1,784,389; Dec. 9.
Rémond, Jacques, Amiens, France. Portable loading gauge for railroad cars. 1,784,160; Dec. 9.
Rensonnet, Oscar, Etterbeek-Brussels, Belgium, assignor to H. Dujardin, New York, N. Y. Steering sight adapted to be fitted to the mud guards of motor vehicles. 1,784,466; Dec. 9.

Renton, David M., E. N. Long, jr., and A. E. Murphy, Avalon, assignors to Santa Catalina Island Company, Avalon, Calif. Stone spreader. 1,784,202; Dec. 9.
Reynolds, Arthur W., assignor to The Babcock Manufacturing Company, Leonardsville, N. Y. Spring tooth for harrows and the like. 1,784,613; Dec. 9.
Rheinische Metallwaaren- und Maschinenfabrik. (See Herlach, F., and Rakula, assignors.)
Rheinische Metallwaaren- und Maschinenfabrik. (See Witzell, Karl, assignor.)
Rhenania-Kunheim Verein Chemischen Fabriken Aktiengesellschaft. (See von Dieterich, Wilhelm, assignor.)
Rice, Harold G., Chicago, Ill. Holder for socket-wrench sets. 1,784,203; Dec. 9.
Rice, Howard E., Miami, Fla. Foldable chair. 1,784,390; Dec. 9.
Rich, Henry, Elmo Township, Otter Tail County, Minn. Portable sawing machine. 1,784,709; Dec. 9.
Richardson Company, The. (See Cain, John R., assignor.)
Richter, George A., and M. O. Schur, assignors to Brown Company, Berlin, N. H. Refining cellulose pulp. 1,784,161; Dec. 9.
Richter, John L. (See Schmidt, C. C., and Richter.)
Ricker, Chester S., Waukesha, Wis. Lamp. 1,784,539; Dec. 9.
Ricker, Norman H., assignor to Hughes Tool Company, Houston, Tex. Buffer for well swabs. 1,784,110; Dec. 9.
Ries, John I., Chillicothe, Ohio. Collapsible tube holder. 1,784,752; Dec. 9.
Rightmire, Franklin, Paterson, N. J. Traction attachment for vehicle wheels. 1,784,681; Dec. 9.
Rinne, John, Rutledge, Pa. Method of and machine for manufacturing matches and match tape. 1,784,111; Dec. 9.
Ripley, David W., Fresno, assignor to Sun-Maid Raisin Growers of California, Fresno, Calif. Weight-checking device. 1,784,540; Dec. 9.
Roberts, Clifford, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cushion tread for footwear. 1,783,980; Dec. 9.
Roberts, Ralph R., Lockport, N. Y. Lubricating method and apparatus. 1,783,981; Dec. 9.
Roças, Orlando, Rio de Janeiro, Brazil. Apparatus for automatic opening and closing of sewer inlets. 1,784,076; Dec. 9.
Rodstein, Harry, and I. Nathanson, Brooklyn, N. Y. Curtain-retaining device. 1,784,496; Dec. 9.
Roe, William C., Pittsburgh, Pa. Phonograph stop. 1,784,391; Dec. 9.
Roedding, Gordon E., assignor to Doerr Manufacturing Company, Grand Rapids, Mich. Securing means. 1,784,204; Dec. 9.
Rogers, Frederick W., Beaver Dam, Wis., assignor to Malleable Iron Range Company. Electric oven construction. 1,784,753; Dec. 9.
Rogers, Perley W. (See Goldsmith, A. L., and Rogers.)
Rohrbach Metall-Flugzeugbau, G. m. b. H. (See Staiger, Ludwig, assignor.)
Rosano, Max G., Chicago, Ill. Plate holder. 1,784,112; Dec. 9.
Rosenberg, A., & Co. (See Rosenberg, Arthur, assignor.)
Rosenberg, Arthur, assignor to A. Rosenberg & Co., Boston, Mass. Belt buckle. 1,784,794; Dec. 9.
Rosenberg, Heyman, New York, N. Y. Anchorage in masonry. 1,784,754; Dec. 9.
Rosenberg, Heyman, New York, N. Y. Anchorage device. 1,784,755; Dec. 9.
Ross Gear & Tool Company. (See Chandler, Franklin F., assignor.)
Rouillard, René, Detroit, Mich. Heated spark-plug holder. 1,784,541; Dec. 9.
Rowland, Davidge H., assignor to Locke Insulator Corporation, Baltimore, Md. Manufacture of insulators. 1,784,392; Dec. 9.
Royal, Charles B., Chicago, Ill. Lubricator for railway journal boxes. 1,784,542; Dec. 9.
Royal Typewriter Company. (See Degener, Gustave O., assignor.)
Rubber Service Laboratories Co., The. (See Scott, Winfield, assignor.)
Rüder, Heinrich B., assignor to Lurgi-Gesellschaft für Wärmetechnik m. b. H., Frankfort-on-the-Main, Germany. Production of adsorbents. 1,784,543; Dec. 9.
Rudnick, Paul, et al. (See Hershman, Paul R., assignor.)
Runge, Walter, East Orange, N. J., assignor, by mesne assignments, to International Coal Carbonization Company. Powdered coke product. 1,783,983; Dec. 9.
Runge, Walter, East Orange, N. J., and E. A. Packard, Yonkers, N. Y., assignors, by mesne assignments, to International Coal Carbonizaton Company. Processing of coal and product thereof. 1,783,982; Dec. 9.
Rupp, John L. (See Aldrich, H. H., and Rupp.)
Russell, John J., Rochester, N. Y. Clamp. 1,784,544; Dec. 9.
Ryckman, Norman E. (See Kemp, C. T., and Ryckman.)
Sager, Abraham, Chicago, Ill. Ring. Des. 82,760; Dec. 9.
Saibi Mojiami Kabushiki Kaisha. (See Kakuda, Saibei, assignor.)
Sailer, Rudolph J., Townley, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing-machine attachment. 1,784,614; Dec. 9.
Sani-Loc Cabinet Company. (See Montgomery, Harry A., assignor.)
Santa Catalina Island Company. (See Renton, D. M., Long, and Murphy, assignors.)
Scarr, Agnes H., Atlantic, Iowa. Clothespin. 1,784,252; Dec. 9.
Schano, Peter, Union City, N. J. Foldable copy stand for portable typewriters. 1,784,253; Dec. 9.
Schawrow, Morris, Bayonne, N. J. Threadless coupling. 1,784,393; Dec. 9.
Schiebuhr, Friedrich, Berlin-Charlottenburg, assignor to Siemens-Schuckertwerke, Aktiengesellschaft, Berlin-Siemensstadt, Germany. Drive for paper machines. 1,784,545; Dec. 9.
Schiff, Sigmund, assignor to The J. H. Day Company, Cincinnati, Ohio. Process and apparatus for dividing plastics. 1,784,113; Dec. 9.
Schimpf, Robert, Berlin-Schlachtensee, assignor to Siemens-Schuckertwerke, Aktiengesellschaft, Berlin-Siemensstadt, Germany. Arc-ground suppressor. 1,784,682; Dec. 9.
Schlaich, Herman, Long Island City, N. Y. Mounting for temperature-responsive elements. 1,784,756; Dec. 9.
Schleicher, Manfred, Berlin-Charlottenburg, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, Germany. Apparatus for controlling and indicating earth leakages in alternating-current lines. 1,784,546; Dec. 9.
Schlew, Arthur A. (See Clarke, B. E., and Schlew.)
Schlitt, Joseph L. (See Van Nuys, C. C., and Schlitt.)
Schmidt, Clarence C., Reynoldsburg, and J. L. Richter, Bexley, Ohio. Hydraulic-brake mechanism. 1,784,547; Dec. 9.
Schoeller, Walter. (See Jordan, H., and Schoeller, and Clerc.)
Schoeller, Walter E., Borgwaldt, and A. Feldt, assignors to Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Organic metallo mercapto sulphonic compounds and making same. 1,784,497; Dec. 9.
Schofer, Eugen, Pforzheim, Germany. Machine for manufacturing metal-chain mail. 1,784,254; Dec. 9.
Schonbrun, Irving L. (See Emis, Benjamin, assignor.)
Schubert, Max. (See Herz, R., and Schubert.)
Schulte, Walter B., assignor to Burgess Battery Company, Madison, Wis. Battery hand lamp. 1,784,114; Dec. 9.
Schumacher, Erwin A. (See Heise, G. W., and Schumacher.)
Schur, Milton O. (See Richter, G. A., and Schur.)
Schurr, Leslie A., and F. Breckenridge, Breckenridge, Mich. Washing machine. 1,784,316; Dec. 9.
Schweigert, Frederick, New York, N. Y. Sledge hammer. 1,784,683; Dec. 9.
Scott, David J., executors, et al. (See Scott, David J., assignor.)
Scott, David J., assignor to I., and D. J. Scott, executors of the estate of W. Scott, deceased, doing business under the name of Walter Scott & Company, Plainfield, N. J. Folding or other device. 1,784,757; Dec. 9.
Scott, Elmer T. (See Zublin, J. A., and Scott.)
Scott, Harry C. (See Brockman, Henry F. W., assignor.)
Scott, Isabella, executors, et al. (See Scott, David J., assignor.)
Scott, Walter. (See Scott, David J.)
Scott, Walter, & Company. (See Scott, David J.)
Scott, Winfield, Nitro, W. V., assignor to The Rubber Service Laboratories Co., Akron, Ohio. Vulcanizing rubber and product obtained therefrom. 1,784,498; Dec. 9.
Scovill Manufacturing Company. (See King, George A., assignor.)
Scribner, William L., assignor to The Timken Roller Bearing Company, Canton, Ohio. Car-journal construction. 1,784,467; Dec. 9.
Seaholm, John P., Moline, Ill., assignor, by mesne assignments, to Minneapolis-Moline Power Implement Company, Minneapolis, Minn. Cultivator. 1,784,499; Dec. 9.
Searle, William F., jr., assignor to The Fulton Sylphon Company, Knoxville, Tenn. Thermostatically-controlled valve mechanism. 1,784,077; Dec. 9.
Sebell, Harry, Boston, Mass. Combined automobile cover and tent. 1,784,115; Dec. 9.
Selby Shoe Company, The. (See Selby, Roger A., assignor.)
Seeger, Edwin W., South Milwaukee, Wis., assignor, by mesne assignments, to Cutler-Hammer, Inc. Controller for power-driven pumps. 1,784,205; Dec. 9.
Seidman, Charles, Philadelphia, Pa. Corded-edge knit neckband for sweaters and the like. 1,784,548; Dec. 9.
Selby, Roger A., assignor to The Selby Shoe Company, Portsmouth, Ohio. Shoe. Des. 82,761; Dec. 9.
Sethness, C. H., et al. (See Hershman, Paul R., assignor.)
Sethness, C. O., et al. (See Hershman, Paul R., assignor.)
Shakeproof Lock Washer Company. (See Hosking, Richard T., assignor.)
Shakeproof Lock Washer Company. (See Olson, Carl G., assignor.)
Shane, Minnie V., assignor of one-half to C. H. Winterborne, San Antonio, Tex. Manicurist's thumb guard. 1,783,984; Dec. 9.
Sharples Specialty Company, The. (See Berline, Raoul M., assignor.)
Sharples Specialty Company, The. (See Jones, Leo D., assignor.)
Shell Petroleum Corporation. (See Carney, Samuel C., assignor.)
Sheppard, Samuel E., and J. G. McNally, assignors to Eastman Kodak Company, Rochester, N. Y. Cellulose film. 1,784,758; Dec. 9.

Sheridan Iron Works, The, et al. (See Bredenberg, Alfred, assignor.)
Sherts, James H., Brackenridge, Pa., assignor to Duplate Corporation. Apparatus for making composite glass. 1,783,985; Dec. 9.
Shevlin, Joseph P., Chicago, Ill., assignor, by mesne assignments, to G. F. A. Mayle, London, England. Hydraulic jack. 1,784,116; Dec. 9.
Shoe Form Co., Inc. (See De Witt, William J., assignor.)
Shoemaker, Edward J., Canton, Ohio. Vessel and auxiliary boat therefor. 1,784,549; Dec. 9.
Showalter, Victor E., Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Rear-vision mirror. 1,784,710; Dec. 9.
Sidis, William J., New York, N. Y. Perpetual calendar. 1,784,117; Dec. 9.
Siemens & Halske Aktiengesellschaft. (See Schleicher, Manfred, assignor.)
Siemens-Schuckertwerke Aktiengesellschaft. (See Schimpf, Robert, assignor.)
Siemens-Schuckertwerke Aktiengesellschaft. (See Shiebuhr, Friedrich, assignor.)
Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Gleichmann, Hans, assignor.)
Signode Steel Strapping Company. (See Westphal, Rudolph E., assignor.)
Simoni, Armando, Bologna, Italy. Device for automatically filling fountain pens. 1,784,078; Dec. 9.
Simons, George A., and G. Freeberg, assignors to Simons Millwork, Inc., Minneapolis, Minn. Medicine cabinet. Des. 82,762; Dec. 9.
Simons, George A., and G. Freeberg, assignors to Simons Millwork, Inc., Minneapolis, Minn. Corner china closet. Des. 82,763; Dec. 9.
Simons Millwork, Inc. (See Simons, G. A., and Freeberg, assignors.)
Simpson, Walter L. (See Bryan, Joseph H., assignor.)
Sims, Jacob, Brooklyn, N. Y. Hand bag. 1,784,759; Dec. 9.
Singer Manufacturing Company, The. (See Clayton, Andrew B., assignor.)
Singer Manufacturing Company, The. (See Sailer, Rudolph J., assignor.)
Sinner, John, and O. A. Sinner, Los Angeles, Calif. Double-reading plumb level. 1,784,550; Dec. 9.
Sinner, Oscar A. (See Sinner, John, and O. A.)
Sisson, Vinton E., assignor to Railway Metal Products Company, Chicago, Ill. Adjustable support for railway-car side doors. 1,784,029; Dec. 9.
Skelton, Owen R., assignor to Chrysler Corporation, Detroit, Mich. Axle construction. 1,784,394; Dec. 9.
Skonberg, Eric K., Brooklyn, N. Y., assignor to Therm-O-Mat Dispenser, Inc. Liquid-dispensing device. 1,784,795; Dec. 9.
Slaten, Albert, Minneapolis, Minn. Measuring valve. 1,784,255; Dec. 9.
Sleeper & Hartley, Inc. (See Nigro, M., and Blount, assignors.)
Slepian, Joseph, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit breaker. 1,784,760; Dec. 9.
Slusser Holding, Inc. (See Slusser, Leland, D., assignor.)
Slusser, Leland D., assignor to Slusser Holding, Inc., Ottawa, Ohio. Coin-controlled switch. 1,784,079; Dec. 9.
Smith, A. O., Corporation. (See Stresau, Richard, assignor.)
Smith, A. O., Corporation. (See Wetmore, Charles P., assignor.)
Smith, Boyd H. (See Love, F. B., and Smith.)
Smith, Floyd, Morrisville, Pa., assignor to Switlik Manufacturing Company. Parachute harness. 1,784,162; Dec. 9.
Smith, Jerry T., Washington, D. C. Roller skate. 1,784,761; Dec. 9.
Smith, Louis E., Minneapolis, Minn., assignor, by mesne assignments, to Hart-Carter Company, Peoria, Ill. Process of and apparatus for milling flour. 1,784,762; Dec. 9.
Smith, Marion F., assignor to Muller Co., Decatur, Ill. Meter-box lid. 1,784,551; Dec. 9.
Smith, Paul S., Madison, and E. G. Jegge, Montclair, assignors to Lea Fabrics Inc., Newark, N. J. Machine for production of pile fabrics. 1,784,552; Dec. 9.
Smith, R. M. (See Kirkpatrick Carroll P., assignor.)
Smith, Richardson Co. (See Durand, Moise H.)
Smith, Wellington J., Cleveland, Ohio. Ozonizing apparatus. Des. 82,764; Dec. 9.
Smithers, Vernon L., Akron, Ohio. Tire and marking the same. 1,784,118; Dec. 9.
Sneed, John, Ferndale, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio. Brake structure. 1,784,395; Dec. 9.
Snow, Karl F., Brecksville, assignor to The C. O. Bartlett & Snow Company, Cleveland, Ohio. Barrel-conveying tray. 1,784,615; Dec. 9.
Snyder, William J., Fort Leavenworth, Kans. Photographic process printing machine. 1,784,206; Dec. 9.
Societe Anonyme d'Ougrée Marikaye. (See Beaujean, Camille, assignor.)
Societe Anonyme Francaise dite: Societe Technique D'Optique et de Photographie (S. T. O. P.) (See Chrétien, Henri, assignor.)
Société Anonyme: Graissage "Alcyl." (See Koehler, Marcel, assignor.)
Societe Bournisien Beau & Cie. (See Homolle, Robert G. M., assignor.)
Société les Fils de Valton & Cie. (See Valton, Jean B., assignor.)
Societe pour l'Enrichissement et l'Agglomeration des Minerals, Societe Anonyme. (See de Samsonow, Alexandre, assignor.)
Soprani, Mario, Castelfidardo, Italy. Bass-key action for accordions. 1,784,468; Dec. 9.
Soprani, Mario, Castelfidardo, Italy. Piano-key action for accordions. 1,784,469; Dec. 9.
Sorensen, Andrew J., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Transformer. 1,784,030; Dec. 9.
Sorensen, Royal W. (See Millikan, R. A., and Sorensen.)
Spear, Lawrence Y., New London, assignor to Electric Boat Company, Groton, Conn. Rescue submarine. 1,784,500; Dec. 9.
Spengeman, Edwin, New York, N. Y. Timing apparatus. 1,784,031; Dec. 9.
Sperry Gyroscope Company. (See Gillmor, R. E., and Deimel, assignors.)
Spratts' Patent, America, Limited. (See Hartmann, August, assignor.)
Squibb, E. R., & Sons. (See Faulkner, Ralph C., assignor.)
Staiger, Ludwig, Spandau, near Berlin, assignor to the firm Rohrbach Metall-Flugzeughau, G. m. b. H., Berlin, Germany. Manufacture of wedge-shaped hollow bodies. 1,784,501; Dec. 9.
Standard Brands Incorporated. (See Barrington, John H., assignor.)
Standard Oil Company. (See Watts, G. W., Krauel, and Stockdale, assignors.)
Standard Oil Company of California. (See Ziser, G. J., and Osmer, assignors.)
Standard Pressed Steel Company. (See Hallowell, Howard T., assignor.)
Stanley Works, The. (See Murdoch, Walter B., assignor.)
Starcher, Ferreld J. (See McNabb, W. R., Farley, and Starcher.)
Stauverman, Edward, Lakeland, Fla. Weed cutter. 1,784,163; Dec. 9.
Staynew Filter Corporation. (See Dollinger, Lewis L., assignor.)
Steelman, Anna M., administratrix. (See Steelman, Merton A.)
Steelman, Merton A., deceased, by A. M. Steelman, administratrix, Vineland, N. J., assignor to Hartford-Empire Company, Hartford, Conn. Glassworking apparatus. 1,784,763; Dec. 9.
Steinberg, Carl, New York, N. Y. Hat. 1,784,470; Dec. 9.
Sterilek Company. (See O'Neill, Edward J., assignor.)
Stern, Louis, Company. (See Kraemer, August F., assignor.)
Stern, Maximilian, New York, N. Y. Bunion appliance. 1,784,032; Dec. 9.
Stevens, William C., and G. J. Meuer, Milwaukee, Wis., assignors, by mesne assignments, to Cutler-Hammer, Inc. Electric snap-switch mechanism. 1,784,207; Dec. 9.
Stevenson, John E. (See Gullette, William A.)
Stewart, Alexander, Roselle, assignor to C. L. Constant Company, Hoboken, N. J. Treating lead-bearing material. 1,783,986; Dec. 9.
Still, William J., London, England. Power-transmission gear for internal-combustion engines. 1,784,396; Dec. 9.
Stockdale, Thomas E. (See Watts, G. W., Krauel, and Stockdale.)
Stockstrom, Arthur, assignor to American Stove Company, St. Louis, Mo. Range or similar article. Re17,900; Dec. 9.
Stockstrom, Arthur, assignor to American Stove Company, St. Louis, Mo. Range. Des. 82,765; Dec. 9.
Stockstrom, Arthur, and A. H. Brodbeck, assignors to American Stove Company, St. Louis, Mo. Range. Des. 82,766; Dec. 9.
Stockstrom, Arthur, and A. H. Brodbeck, assignors to American Stove Company, St. Louis, Mo. Gas range. 1,784,764; Dec. 9.
Stoffels, Andreas J. M., and H. T. van der Wissel, The Hague, Netherlands. Impregnating bricks and like materials. 1,784,164; Dec. 9.
Stokes and Smith Company. (See Stokes, John S., assignor.)
Stokes, John S., Huntingdon Valley, assignor to Stokes and Smith Company, Philadelphia, Pa. Package, wrapper, and method of applying wrappers to containers. 1,784,317; Dec. 9.
Stolberg, Emil C., East Orange, N. J., assignor to American Car and Foundry Company, New York, N. Y. Wheel-breaking machine. 1,784,471; Dec. 9.
Stone, Junius H., Port Washington, N. Y. Building construction. 1,784,502; Dec. 9.
Stone, Thomas W., assignor to The Western Gas Construction Company, Fort Wayne, Ind. Water-gas process. 1,784,765; Dec. 9.
Stoney, Malcolm P. (See Evans, P., and Stoney.)
Stout, Harold E., West Reading, Pa. Manufacturing sinkers for knitting machines. 1,784,256; Dec. 9.
Stranahan, Samuel A., Flint, assignor to General Motors Corporation, Detroit, Mich. Radiator mounting. 1,784,766; Dec. 9.

Stresau, Richard, Wauwatosa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Manufacturing electrically-welded vessels. 1,784,080; Dec. 9.
Stromberg, David, Cleveland, Ohio. Building. Des. 82,767; Dec. 9.
Studebaker Corporation, The. (See Campbell, Leon J., assignor.)
Stukenborg, Louis C., assignor to Oildraulic Lift Company, Memphis, Tenn. Hydraulic jack. 1,784,553; Dec. 9.
Stukenborg, Louis C., assignor to Oildraulic Lift Company, Memphis, Tenn. Rotary automobile lift structure. 1,784,554; Dec. 9.
Submarine Signal Corporation. (See Fay, R. D., and Dorsey, assignors.)
Süddeutsche Tele-F-On-Apparate-Kabel-, und Drahtwerke A.-G. (See Fischer, Kuno, assignor.)
Sulda, Herman, Modling, near Vienna, Austria. Recovering cresol from aqueous solutions of same. 1,784,711; Dec. 9.
Sullivan Machinery Company. (See Mitchell, Joseph S., assignor.)
Summers, Caleb E., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Means to prevent valves from sticking. 1,784,555; Dec. 9.
Summers, Caleb E., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Hydraulic valve mechanism. 1,784,767; Dec. 9.
Sun-Maid Raisin Growers of California. (See Ripley, David W., assignor.)
Supnes, Max M., assignor to The Fox Furnace Company, Elyria, Ohio. Heating apparatus. 1,784,796; Dec. 9.
Swanbaum, Albert, Duluth, Minn. Wire-twisting apparatus. 1,784,318; Dec. 9.
Swarby, George E., Burlington, Wash. Automobile tool. 1,784,033; Dec. 9.
Swann, Edward C., New York, N. Y., assignor to Cement Gun Construction Co., Chicago, Ill. Cement-gun nozzle. 1,784,503; Dec. 9.
Swartz, William H., Celina, Ohio. Sanitary milk pail. 1,784,319; Dec. 9.
Swenson, Martin, jr., Taihape, New Zealand. Lamp for motor and the like vehicles. 1,784,320; Dec. 9.
Switlik Manufacturing Company. (See Smith, Floyd, assignor.)
T. W. & C. B. Sheridan Company et al. (See Bredenberg, Alfred, assignor.)
Tabor Manufacturing Company, The. (See Lewis, Wilfred, assignor.)
Taddiken, John F. (See Hamill, J., and Taddiken.)
Tanaka, Yoshio, Kitatoshima-Gun, Tokyo-Fu, and T. Kuwata, Ebara-Gun, Tokyo-Fu, Japan. Producing borneol and limonene. 1,784,165; Dec. 9.
Tanner, Harry L., Brooklyn, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Variable-speed control device. 1,784,504; Dec. 9.
Taussig, Walter, Frankfort-on-the-Main, Germany, assignor to Durand & Huguenin, Basel, Switzerland. Printing wool with ester salts of leuco compounds of vat dyestuffs. 1,784,768; Dec. 9.
Teague, Walter D., Forest Hills, N. Y., assignor to Turner Glass Corporation, Terre Haute, Ind. Bottle or similar container. Des. 82,768; Dec. 9.
Teetor, Ralph R., Hagerstown, Ind. Piston and making same. 1,784,505; Dec. 9.
Teich, Ernest L., assignor to The American Hardware Corporation, New Britain, Conn. Lock. 1,784,208; Dec. 9.
Teller Corporation. (See Teller, Jacob, assignor.)
Teller, Jacob, assignor to Teller Corporation, Chicago, Ill. Coal range. Des. 82,769; Dec. 9.
Terman, Frederick E., Stanford University, Calif., assignor to Wired Radio, Inc., New York, N. Y. Oscillograph. 1,784,119; Dec. 9.
Terry, Matson C., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Refrigerator cooling unit. Des. 82,770; Dec. 9.
Tetelman, Louis L. (See Beards, J., and Tetelman.)
Teutsch, Eugene, Denver, Colo. Woodworking machine. 1,784,644; Dec. 9.
Teves, Anthony, assignor to Papendick, Inc., St. Louis, Mo. Bread-slicing machine. 1,784,397; Dec. 9.
Therm-O-Mat Dispenser, Inc. (See Skonberg, Eric K., assignor.)
Thiess, Karl, Frankfort-on-the-Main-Hochst, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Azo dyestuffs. 1,784,398; Dec. 9.
Thomas, Horace T., Lansing, Mich. Valve gearing. 1,784,257; Dec. 9.
Thompson, Fred C., Detroit, Mich., assignor to Morse Chain Company, Ithaca, N. Y. Chain-adjusting device. 1,783,987; Dec. 9.
Thompson, James H., Trenton, N. J., assignor to Walker & Davis, Inc., Philadelphia, Pa. Machine for dyeing and treating yarn. 1,784,399; Dec. 9.
Thornton-Jones, Gilbert, Sherwood, Nottingham, England. Apparatus for the projection of light rays. 1,784,357; Dec. 9.
Tibbetts, Charles B. (See Hurd, E. L., and Tibbetts.)
Tidal Oil Company. (See Franks, Harry H., assignor.)
Tidblad, Anders T., Soderhamn, Sweden. Centering and guiding device. 1,784,321; Dec. 9.
Tiffany Manufacturing Company. (See Brogger, Ivar W., assignor.)
Timbs, Edward, Los Angeles, and L. E. Zerbe, Moneta, Calif., assignors to The National Supply Company of Delaware, New York, N. Y. Two-post, two-speed, three-shaft portable draw works. 1,783,988; Dec. 9.
Timken Roller Bearing Company, The. (See Scribner, William L., assignor.)
Timm, Henry, Saxeville, Wis. Potato gatherer for potato diggers. 1,784,209; Dec. 9.
Tisdale, Leo S., New Albany, Miss. Internal-combustion engine. 1,784,712; Dec. 9.
Tolson, William A., Rexford, N. Y., assignor to General Electric Company. Signaling system. 1,784,645; Dec. 9.
Townsend, Arthur J., Canton, and E. S. Miller, Elyria, assignors, by mesne assignments, to The American Rolling Mill Company, Middletown, Ohio. Automatic shears. 1,784,556; Dec. 9.
Trans-Lux Daylight Picture Screen Corporation. (See Newman, David F., assignor.)
Tregoning, William C., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Molded insulation article. 1,784,557; Dec. 9.
Tribune Company, The. (See Wolf, Otto R., assignor.)
Tridex Corporation. (See Crickmer, Charles S., assignor.)
Truemper, John C. (See Nolen, T., and Truemper.)
Trusler, Frank S., Vernon, Tex. Artificial tooth. 1,784,322; Dec. 9.
Tufoak Products Co. (See Heaton, William H., assignor.)
Turner Glass Corporation. (See Teague, Walter D., assignor.)
Turner Tanning Machinery Company, The. (See Brill, August C., assignor.)
Tynan, Henry J., Ridgewood, N. J. Twine holder and cutter. 1,784,258; Dec. 9.
Underland, Cornelius, Elkton, S. Dak. Loading attachment for tractors. 1,784,558; Dec. 9.
Union Metal Manufacturing Company. (See Bale, Lawrence D., assignor.)
Union Switch & Signal Company, The. (See Geiger, P. H., and Grondahl, assignors.)
Union Switch & Signal Company, The. (See Grondahl, Lars O., assignor.)
Union Switch & Signal Company, The. (See Sorensen, Andrew J., assignor.)
United Cigarette Machine Company Aktiengesellschaft. (See Lorentz, Valentin, assignor.)
United Shoe Machinery Corporation. (See Bonser, Ernest F., assignor.)
United Shoe Machinery Corporation. (See Hurd, E. L., and Tibbetts, assignors.)
United Shoe Machinery Corporation. (See Lander, Clarence I., assignor.)
United Shoe Machinery Corporation. (See Roberts, Clifford, assignor.)
United States Glass Company. (See Beam, Charles C., assignor.)
United States Radiator Cor. (See Dietert, Harry W., assignor.)
Universal Fringe Works. (See Grabelsky, Israel, assignor.)
Urschel, William B., Valparaiso, Ind. Harvesting machine. 1,784,081; Dec. 9.
Valton, Jean B., assignor to Société les Fils de Valton & Cie., Troyes, France. Linking machine. 1,784,713; Dec. 9.
Van Bergen, Edward R., Cleveland Heights, Ohio. Stenciling apparatus. 1,784,616; Dec. 9.
Vanderbilt, R. T., Co. (See Kaegenbehn, Charles F., assignor.)
Van der Lande, Bernardus L. M., and G. Komen, Deventer, Netherlands. Apparatus for preparing casting molds. 1,784,714; Dec. 9.
Van der Wissel, Herman T. (See Stoffels, A. J. M., and van der Wissel.)
Van Dyck, Arthur F., Yonkers, N. Y., assignor to Radio Corporation of America. Radio receiving system. 1,784,210; Dec. 9.
Van Houten, Frank H., assignor to Dutchess Tool Company, Beacon, N. Y. Dough-dividing apparatus. 1,784,559; Dec. 9.
Van Nuys, Claude C., Cranford, and J. L. Schlitt, Elizabeth, N. J., assignors to Air Reduction Company, Incorporated, New York, N. Y. Separation of the constituents of gaseous mixtures. 1,784,120; Dec. 9.
Vickers-Armstrongs Limited. (See Jones, Albert E., assignor.)
Vickers-Armstrongs Limited. (See Larsson, Carl A., assignor.)
Viscolosi, Louis, Providence, assignor to The Esmond Mills, Esmond, R. I. Loom. 1,784,400; Dec. 9.
Vissat, Anthony L., Jeannette, Pa. Railway cross over frog construction. 1,784,211; Dec. 9.
Vitte, Paul R., Long Beach, Calif. Clamping machine for snap fasteners. 1,784,034; Dec. 9.
Von Arco, Georg, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Radio receiving system. 1,784,506; Dec. 9.
Von Bogdandy, Stephan. (See Polanyi, M., and von Bogdandy.)
Von der Lippe-Lipski, Elaine, Washington, D. C. Changeable exhibitor. 1,784,364; Dec. 9.
Von der Lippe-Lipski Elaine, Washington, D. C. Animated sign. 1,784,365; Dec. 9.

Von Dieterich, Wilhelm, Honningen-on-the-Rhine, assignor to the firm Rhenania-Kunheim Verein Chemischen Fabriken Aktiengesellschaft, Berlin, Germany. Mold for casting sulphur. 1,784,769; Dec. 9.
Von Wilmowsky, Felix F., New York, N. Y. Footwear. 1,784,035; Dec. 9.
Wachsman, Jacob, Brooklyn, N. Y. Electric stop mechanism for knitting machines and the like. 1,784,560; Dec. 9.
Wagel, Srinivas R., assignor of seventy-five per cent to The Winchester American Corporation, New York, N. Y. Washing device. 1,784,401; Dec. 9.
Wagner, Theodore B., Brooklyn, N. Y. Monosaccharide material. 1,784,402; Dec. 9.
Walker & Davis, Inc. (See Thompson, James H., assignor.)
Walker, Edwin R., Yakima, Wash. Fruit-packing stand. 1,784,403; Dec. 9.
Walker, George H., assignor to Heenan & Froude Limited, Worcester, England. Hydraulic clutch. 1,784,212; Dec. 9.
Walker, Thomas S., assignor to I. Leezenbaum, Newark, N. J. Folding table. 1,784,507; Dec. 9.
Wallace, Henry, London, England. Grit-distributing device. 1,784,323; Dec. 9.
Wallenberg, Richard S., Buffalo, assignor of one-half to R. E. Donovan, Tonawanda, N. Y. Battery-terminal connecter. 1,784,259; Dec. 9.
Walp, Charles F., Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y. Roof. 1,784,508; Dec. 9.
Walsh, James A., Indianapolis, Ind., assignor to J. I. Case Company, Racine, Wis. Combination harvester thrasher. 1,784,121; Dec. 9.
Walstrom, Axel M., Minneapolis, Minn. Double-acting grease gun. 1,784,260; Dec. 9.
Wantz, Julius B., Oak Park, Ill. Rectifying switch. 1,784,122; Dec. 9.
Warp Twisting-In Machine Company. (See Becker, John H., assignor.)
Washington, George T., Russell, Ky. Filing cabinet. 1,784,166; Dec. 9.
Waterbury Farrel Foundry and Machine Company, The. (See Wilcox, Richard L., assignor.)
Watts, George W., P. L. Krauel, and T. E. Stockdale, assignors to Standard Oil Company, Whiting, Ind. Distillation of hydrocarbon oils. 1,784,561; Dec. 9.
Watts, Leo E., assignor to J. F. Holtzen, Enid, Okla. Ironing board. 1,784,715; Dec. 9.
Weaver, Fleming R. (See Oglesby, N. E., and Weaver.)
Weaver, William A., Shaker Heights, Ohio. Package of dental supplies. 1,784,646; Dec. 9.
Webb, Adolphus M., assignor of one-fourth to W. G. Jarrell Machine Company, Charlotte, N. C. Exercising device. 1,784,082; Dec. 9.
Weber, Carl M. (See Mahan, C. B., and Weber.)
Weber Machine Corporation. (See Mahan, C. B., and Weber, assignors.)
Wehrle Company, The. (See Pickup, George E., assignor.)
Weidner, George, Rochester, N. Y. Precision dressing apparatus for grinding wheels. 1,784,261; Dec. 9.
Weinheim, Emil, New York, N. Y. Coating and impregnating webs of flexible material. 1,784,797; Dec. 9.
Weinhold, Walter G. (See Marks, C. K., and Weinhold.)
Welch, Joseph H., Tulsa, Okla. Method and apparatus for oil cracking. 1,784,562; Dec. 9.
Wellensiek, Louis H., Houston, Tex. Drilling apparatus. 1,784,404; Dec. 9.
Werner, Ernst A. G., Brooklyn, N. Y. Wrench. 1,784,123; Dec. 9.
West, George W., West Warwick, R. I. Oil-can support and oil stove. 1,784,716; Dec. 9.
Western Gas Construction Company, The. (See Stone, Thomas W., assignor.)
Western Wire Products Co. (See Young, Lee C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)
Westinghouse Electric & Manufacturing Company. (See Terry, Matson C., assignor.)
Westinghouse Lamp Company. (See Plishker, Herbert E., assignor.)
Westlund, John H., Marshalltown, Iowa. Self-defense firearm. 1,784,563; Dec. 9.
Westphal, Rudolph E., Chicago, Ill., assignor, by mesne assignments, to Signode Steel Strapping Company. Sealing tool. 1,784,213; Dec. 9.
Wetmore, Charles P., assignor to A. O. Smith Corporation, Milwaukee, Wis. Reversible chuck for lathes. 1,783,989; Dec. 9.
Wheeler, Raymond C., and P. W. Prutzman, Los Angeles, Calif. Alkaline treatment of petroleum vapors. 1,784,262; Dec. 9.
White Motor Company, The. (See Jehle, Ferdinand, assignor.)
Whitney, Willis R., Niskayuna, N. Y., assignor to General Electric Company. Making crucibles. 1,784,647; Dec. 9.
Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Hopper mechanism. 1,784,124; Dec. 9.
Wild, Charles H., assignor to Burt Machine Company, Incorporated, Baltimore, Md. Case-filling machine. 1,784,083; Dec. 9.
Wildman Mfg. Co. (See Howie, Kenneth, assignor.)
Wiley, Andrew J., Boise, Idaho. Metal reenforcement for timber poles. 1,784,770; Dec. 9.
Williams, Calvin C., Philadelphia, Pa. Valve-actuating mechanism. 1,784,036; Dec. 9.
Williams, Leroy E., assignor to Highway Trailer Company, Edgerton, Wis. Trailer-steering device. 1,784,263; Dec. 9.
Williams, Raymond A., Arlington, Mass. Pin magazine for bowling alleys. 1,784,084; Dec. 9.
Williams, Roger S., New York, N. Y. Method and mechanism for lubricating locomotive driving-rod journals. 1,784,405; Dec. 9.
Willoughby, Victor. (See Knight, J. M., and Willoughby.)
Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Mine car. 1,784,472; Dec. 9.
Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Mine car. 1,784,473; Dec. 9.
Wills, Herbert J., Niagara Falls, N. Y., assignor to The Carborundum Company. Automatic lapping machine. 1,784,648; Dec. 9.
Wilson Brothers. (See Negley, Frank H., assignor.)
Wilson, Edwin B., Forest Hills, N. Y. Illuminated ornamental object. 1,784,474; Dec. 9.
Wilson, Leon A., Los Angeles, Calif., assignor of one-half to E. L. Yewell, Washington, D. C. Medicine. 1,784,324; Dec. 9.
Wilson, Robert E. (See Wilson, Robert E. and R. E.)
Wilson, Robert E. and R. E., Belleville, N. J. Poppet-valve-actuation means. 1,784,125; Dec. 9.
Wilson-Western Sporting Goods Co. (See Levinson, David, assignor.)
Winchester American Corporation, The. (See Wagel, Srinivas R., assignor.)
Winterborne, Charles H. (See Shane, Minnie V., assignor.)
Winters, Elzie, et al. (See Fahrenholtz, Henry, assignor.)
Winther Company, The. (See Jensen, Thorvald, assignor.)
Wintroath, John A., assignor to Peerless Pump Company, Los Angeles, Calif. Shaft-tubing sustaining device for deep-well pumps. 1,784,406; Dec. 9.
Wired Radio, Inc. (See Terman, Frederick E., assignor.)
Witz, Albert A., Chicago, Ill. Lamp-stand bracket. Des. 82,771; Dec. 9.
Witzel, Karl, Berlin-Lichterfelde, assignor to Rheinische Metallwaaren-und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Barrel of firearms. 1,784,325; Dec. 9.
Woelfer, Frank C., jr. (See Butler, C. G., and Woelfer.)
Wolf, Otto R., River Forest, assignor to The Tribune Company, Chicago, Ill. Printing press. 1,784,037; Dec. 9.
Wood, Alexander P., Schenectady, N. Y., assignor to General Electric Company. Stator for dynamo-electric machines and making the same. 1,784,649; Dec. 9.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Motor drive for printing presses. 1,784,085; Dec. 9.
Wood, Myron W., Sioux City, Iowa. Oil burner. 1,784,771; Dec. 9.
Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
Wood, Wilfred R., London, England, assignor to International Combustion Engineering Corporation, New York, N. Y. Steam generator. 1,784,407; Dec. 9.
Woodhull, Llewellyn S. (See Marshall, W., and Woodhull.)
Woodron Washing Machine Company. (See Gibson, George M.)
Woodward, Harold E., Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Trisazo dyes and producing the same. 1,784,617; Dec. 9.
Workman, Paul E., Dallas, Tex. Recovering and increasing the production of oil. 1,784,214; Dec. 9.
Wortham, Jesse L. (See McFarland, Parley E., assignor.)
Wubco Battery Corporation. (See Aldrich, H. H., and Rupp, assignors.)
Yewell, Edwin L. (See Wilson, Leon A., assignor.)
Yoder, Lee A. (See Lidke, Otto F., assignor, and George E. Lidke.)
Young Brothers Company. (See Fox, Vernie A., assignor.)
Young, Lee C., assignor to Western Wire Products Co., St. Louis, Mo. Pipe-vise stand. 1,784,264; Dec. 9.
Young, Walter D., Flint, Mich. Hood catch. 1,784,475; Dec. 9.
Zahn, Lawrence J., Long Island City, assignor to International Postal Supply Company, Brooklyn, N. Y. Check-indorsing machine. 1,783,990; Dec. 9.
Zahn, Lawrence J., Long Island City, assignor to International Postal Supply Company, Brooklyn, N. Y. Printing-die structure. 1,783,991; Dec. 9.
Zeamans, Harold R., New York, N. Y. Clear-vision automobile body construction. 1,784,265; Dec. 9.
Zeiss Firm, Carl. (See Meyer, Franz, assignor.)
Zerbe, Lewis E. (See Timbs, E., and Zerbe.)
Ziegler, George, Bogota, N. J. Grate key. 1,784,772; Dec. 9.
Ziser, George J., Los Angeles, and J. H. Osmer, El Segundo, assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Treating petroleum oils containing sulphur. 1,784,215; Dec. 9.

Zitscher, Arthur, Offenbach-on-the-Main, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Manufacturing aminonaphthol ethers. 1,784,408; Dec. 9.
Zubaty, Joseph, assignor to A C Spark Plug Company, Flint, Mich. Odometer. 1,784,773; Dec. 9.
Zuber, Emil F., and F. A. Dowling, Peoria, Ill., assignors to The Michigan Silo Company, Kalamazoo, Mich. Silo door. 1,783,992; Dec. 9.
Zublin, John A., Los Angeles, and E. T. Scott, Bell, Calif.; said Scott assignor to said Zublin. Cleaning device for rotary drilling tools. 1,784,476; Dec. 9.
Zur Löwen, Waldemar, Barmen-Rittershausen, Germany, assignor, by mesne assignments, to American Bemberg Corporation. Exchangeable filter, more particularly for artificial-silk-spinning machines. 1,784,103; Dec. 9.
Zwiebel, Elmer W., Los Angeles, Calif. Radiocabinet. Des. 82,772; Dec. 9.
Zwiebel, Elmer W., Los Angeles, Calif. Radiocabinet. Des. 82,773; Dec. 9.
Zwiebel, Elmer W., Los Angeles, Calif. Radiocabinet. Des. 82,774; Dec. 9.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 9TH DAY OF DECEMBER, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Accordions, Bass-key section for. M. Soprani. 1,784,468; Dec. 9.
Accordions, Piano-key action for. M. Soprani. 1,784,469; Dec. 9.
Acid, Making acetic. H. Dreyfus. 1,784,583; Dec. 9.
Acoustic device. M. R. Hutchison. 1,784,595; Dec. 9.
Adhesive. G. S. Mathey. 1,784,740; Dec. 9.
Adhesive composition. W. O. Herrmann and W. Haehnel. 1,784,008; Dec. 9.
Adsorbents, Production of. H. B. Rüder. 1,784,543; Dec. 9.
Adsorption material, Regeneration of. V. Pantenburg. 1,784,536; Dec. 9.
Agitator. H. F. W. Brockmann. 1,784,416; Dec. 9.
Air brake, Vehicle. F. L. Horspool. 1,784,233; Dec. 9.
Air control for internal-combustion engines. E. J. Hall. 1,784,006; Dec. 9.
Aircraft. R. Bratu. 1,784,654; Dec. 9.
Aircraft. M. H. de Hora. 1,784,723; Dec. 9.
Aircraft construction. W. M. Piggott. 1,784,027; Dec. 9.
Airplane skid. F. S. Cotton. 1,784,274; Dec. 9.
Airship. L. Balazinski. 1,784,775; Dec. 9.
Alarm: *See*—
  Musical alarm.
Alarm apparatus for the prevention of gas poisoning. A. N. Olsson and P. D. Peterson. 1,783,974; Dec. 9.
Alarm control unit. E. Bellman. 1,784,479; Dec. 9.
Ammonia-air mixtures. Apparatus for the production of. H. Pauling. 1,784,074; Dec. 9.
Amplifier. A. V. Bedford. 1,784,653; Dec. 9.
Amplifier of electrical currents. E. H. Loftin. 1,784,150; Dec. 9.
Anchorage device. H. Rosenberg. 1,784,755; Dec. 9.
Anchorage for poles. L. D. Bale. 1,784,568; Dec. 9.
Annealing. J. R. Cain. 1,784,221; Dec. 9.
Apparatus for feeding closure caps. J. A. Johnson. 1,784,010; Dec. 9.
Apparatus for inducing flow of oil from wells. W. A. Melton. 1,784,242; Dec. 9.
Arc-ground suppressor. R. Schimpf. 1,784,682; Dec. 9.
Atomizer, Suction. C. S. Crickmer. 1,784,222; Dec. 9.
Automatic sheafs. A. J. Townsend and E. S. Miller. 1,784,556; Dec. 9.
Automobile lift structure, Rotary. L. C. Stukenborg. 1,784,554; Dec. 9.
Axle construction. O. R. Skelton. 1,784,394; Dec. 9.
Axle structure. E. W. Pelster. 1,783,977; Dec. 9.
Badge. W. J. Otts. Des. 82,756; Dec. 9.
Bag: *See*—
  Garment bag. Hand bag.
Bag and frame therefor, Hand. F. J. Quigan. 1,784,748; Dec. 9.
Barrel of firearms. K. Witzell. 1,784,325; Dec. 9.
Barrette. A. and J. Goodman. 1,784,430; Dec. 9.
Base for bird-cage stands or similar articles. S. Babitzky. Des. 82,720; Dec. 9.
Basin for soil-water-heat reclaimers, Catch. F. S. Boltz. 1,783,950; Dec. 9.
Bathtub attachment. W. Rafalski. 1,784,749; Dec. 9.
Batteries, Sealing storage. H. H. Aldrich and J. L. Rupp. 1,784,216; Dec. 9.
Battery-electrolyte-reenforcing means, Dry-. G. W. Heise and E. A. Schumacher. 1,784,592; Dec. 9.
Battery-terminal connecter. R. S. Wallenberg. 1,784,259; Dec. 9.
Bearing, Roller. G. A. Darby. 1,783,957; Dec. 9.
Bench: *See*—
  Exhibition bench.
Bicycle mechanism. A. Devito. 1,784,449; Dec. 9.
Biscuit cutting and embossing machine. T. L. Green. 1,784,431; Dec. 9.
Blade edger. F. Graffenberger. 1,784,625; Dec. 9.
Board: *See*—
  Ironing board. Running board.
Boat. F. M. Norman. 1,784,071; Dec. 9.
Bodies consisting of a plurality of thin alternately conducting and insulating layers, Producing. M. Polanyi and S. von Bogdandy. 1,784,611; Dec. 9.
Body construction, Clear-vision automobile. H. R. Zeamans. 1,784,265; Dec. 9.
Boiler. A. A. Lindley. 1,784,149; Dec. 9.
Bolt anchor and support, Combined. H. W. Pleister. 1,783,976; Dec. 9.
Bone-char-drying apparatus. J. Hamill and J. F. Taddiken. 1,784,626; Dec. 9.
Borneol and limonene, Producing. Y. Tanaka and T. Kuwata. 1,784,165; Dec. 9.
Bottle. R. C. Faulkner. Des. 82,737; Dec. 9.
Bottle or similar container. W. D. Teague. Des. 72,768; Dec. 9.
Bottles, Process and apparatus for producing wax. D. Fauerbach. 1,784,686; Dec. 9.
Bouquet pin. L. W. Andersen. 1,784,565; Dec. 9.
Bowl or similar article. C. C. Beam. Des. 82,723; Dec. 9.
Box: *See*—
  Core box. Journal box.
  Fire-alarm and watchman's recording box. Mail box.
Box toe, Soft. C. L. Daly. 1,784,276; Dec. 9.
Bracket: *See*—
  Roller bracket.
Brake: *See*—
  Air brake.
Brake. H. C. Gohlke. 1,784,688; Dec. 9.
Brake for sleds. E. Kallenbach. 1,783,966; Dec. 9.
Brake lever and lock, Emergency. J. Ratto. 1,784,750; Dec. 9.
Brake mechanism for motor vehicles. J. W. Postel. 1,784,387; Dec. 9.
Brake mechanism, Hydraulic. C. C. Schmidt and J. L. Richter. 1,784,547; Dec. 9.
Brake mechanism, Vehicle. N. A. Christensen. Re17,899; Dec. 9.
Brake-operating means. L. E. La Brie. 1,784,295; Dec. 9.
Brake structure. J. Sneed. 1,784,395; Dec. 9.
Bread-slicing machine. A. Tewes. 1,784,397; Dec. 9.
Bricks and like materials, Impregnating. A. J. Stoffels and T. van der Wissel. 1,784,164; Dec. 9.
Buckle. D. W. Coulias. Des. 82,727; Dec. 9.
Buckle, Belt. A. Rosenberg. 1,784,794; Dec. 9.
Buffer for well swabs. N. H. Ricker. 1,784,110; Dec. 9.
Building. F. D. Clark. Des. 82,726; Dec. 9.
Building. D. Stromberg. Des. 82,767; Dec. 9.
Building construction. J. H. Stone. 1,784,502; Dec. 9.
Building structure. A. Leyland. 1,784,808; Dec. 9.
Bunion appliance. M. Stern. 1,784,032; Dec. 9.
Burner: *See*—
  Fuel burner. Oil burner.
Cabinet. W. A. French. Des. 82,738; Dec. 9.
Cabinet, Filing. G. T. Washington. 1,784,166; Dec. 9.
Cabinet, Medicine. G. A. Simons and G. Freeberg. Des. 82,762; Dec. 9.
Cabinet, Radiator. J. H. Bryan. 1,784,040; Dec. 9.
Cabinet, Receiving and dispensing. H. A. Montgomery. 1,784,743; Dec. 9.
Cabinet, Rotary. L. A. Knipp. 1,784,293; Dec. 9.
Cable installation, Long-distance-. K. Fischer. 1,784,184; Dec. 9.
Cable-joint construction, Water-cooled welding. J. J. Paugh. 1,784,384; Dec. 9.
Calendar, Perpetual. W. J. Sidis. 1,784,117; Dec. 9.
Camera, Binocular nonstop motion-picture. H. K. Fairall. 1,784,515; Dec. 9.
Can-making machinery and apparatus. W. K. Cabot. 1,784,131; Dec. 9.
Can-making machinery, Line control for. L. L. Jones. 1,784,358; Dec. 9.
Canopy, Beach. M. J. Peterson. 1,784,199; Dec. 9.
Car construction. W. F. Dietrichson. 1,784,484; Dec. 9.
Car for amusement devices. H. F. Cushner. Des. 82,733; Dec. 9.
Car-journal construction. W. L. Scribner. 1,784,467; Dec. 9.
Car, Mine-. L. Almquist. 1,784,477; Dec. 9.
Car, Mine. V. Willoughby. 1,784,472–3; Dec. 9.
Car, Poultry. I. V. Edgerton. 1,784,685; Dec. 9.
Car rerailer. E. J. McCarty. 1,784,741; Dec. 9.
Car seat. J. M. Knight and V. Willoughby. 1,784,527; Dec. 9.
Carburetor. G. M. Bicknell. 1,784,481; Dec. 9.
Card or Similar article, Display. S. H. Goldberg. Des. 82,740; Dec. 9.
Carrier systems, Equalization for. A. Carpe. 1,784,176; Dec. 9.
Carton. P. R. Miller. Des. 82,755; Dec. 9.
Carton, Egg. J. L. Coyle. 1,784,275; Dec. 9.
Case-filling machine. C. H. Wild. 1,784,083; Dec. 9.
Casing, Electric-wire. J. M. Berry. 1,784,217; Dec. 9.
Casing for precision balances. W. Heusser. 1,784,098; Dec. 9.
Casing, Grease-gun. C. G. Butler. Des. 82,725; Dec. 9.
Cash carrier. J. L. Baldwin. 1,784,776; Dec. 9.
Casserole or similar article. S. W. Farber. Des. 82,736; Dec. 9.
Cast or splint removing device. B. E. Clarke and A. A. Schlew. 1,784,337; Dec. 9.
Casting under pressure. S. Junghans. 1,784,600; Dec. 9.
Castings, Cooling means for. L. Föbus. 1,784,346; Dec. 9.

Catch, Hood. W. D. Young. 1,784,475; Dec. 9.
Cellulose pulp, Refining. G. A. Richter and M. O. Schur. 1,784,161; Dec. 9.
Cement manufacture, Producing ground raw material for Portland. J. A. Miller and E. P. Newhard. 1,784,462; Dec. 9.
Centering and guiding device. A. T. Tidblad. 1,784,321; Dec. 9.
Centrifugal apparatus. R. M. Berline. 1,784,510; Dec. 9.
Chain-adjusting device. F. C. Thompson. 1,783,987; Dec. 9.
Chain assembly. A. F. Kraemer. 1,784,451; Dec. 9.
Chain, Drive. F. L. Morse. 1,784,023; Dec. 9.
Chair: *See*—
  Foldable chair.
Chalk-line reel. G. M. Griswold. 1,784,064; Dec. 9.
Check-endorsing machine. L. J. Zahn. 1,783,990; Dec. 9.
Check, Recoil. M. B. Lucker. 1,784,739; Dec. 9.
Chemical furnace. F. L. Preston. 1,784,109; Dec. 9.
China closet, Corner. G. A. Simons and G. Freeberg. Des. 82,763; Dec. 9.
Chlorides, Making alkyl. J. Frei. 1,784,423; Dec. 9.
Chuck. A. E. Englund. 1,784,002; Dec. 9.
Chuck for lathes, Reversible. C. P. Wetmore. 1,783,989; Dec. 9.
Cigarette-making machine. M. P. E. Hohn. 1,784,443; Dec. 9.
Cigarette, Sanitary. M. Poeck. 1,784,386; Dec. 9.
Cigarettes and like articles, Packing. W. E. Molins. 1,784,701; Dec. 9.
Cigarettes, Process and device for improving. V. Lorentz. 1,784,296; Dec. 9.
Circuit breaker. J. Slepian. 1,784,760; Dec. 9.
Circuit-breaker system, Automatic reclosing. A. E. Anderson. 1,784,651; Dec. 9.
Circuit, Transmission frequency-delay-measuring. D. Mitchell. 1,784,194; Dec. 9.
Circuits, Voice-controlled. A. Carpe. 1,784,178; Dec. 9.
Circulating apparatus for wood-pulp digesters. A. G. Natwick. 1,784,197; Dec. 9.
Clamp: *See*—
  Hood clamp.
Clamp. J. J. Russell. 1,784,544; Dec. 9.
Clamping machine for snap fasteners. P. R. Vitte. 1,784,034; Dec. 9.
Clasp: *See*—
  Lingerie clasp.
Classifying and washing apparatus. H. W. Newton. 1,784,246; Dec. 9.
Cleaner for boilers, Rotary soot. F. W. Linaker and T. M. Bruback. 1,784,491; Dec. 9.
Cleaning apparatus for cottonseed. E. M. Brennan. 1,784,219; Dec. 9.
Cleaning device for rotary drilling tools. J. A. Zublin and E. T. Scott. 1,784,476; Dec. 9.
Cleaning device, Heating-surface-. D. S. Jacobus. 1,784,629; Dec. 9.
Clip: *See*—
  Guy clip. Spring clip.
Clip. J. P. Lynn. 1,784,605; Dec. 9.
Clock, Electric program. L. C. Morris. 1,784,195; Dec. 9.
Closure cap for radiators, water tanks, pressure tanks, gas tanks, and the like. E. Persson. 1,784,198; Dec. 9.
Clothespin. A. H. Scarr. 1,784,252; Dec. 9.
Clutch construction. J. R. Carickhoff. 1,784,722; Dec. 9.
Clutch, Double automatic. J. A. Prior. 1,784,793; Dec. 9.
Clutch, Hydraulic. G. H. Walker. 1,784,212; Dec. 9.
Coal and product thereof, Processing of. W. Runge and E. A. Packard. 1,783,982; Dec. 9.
Coal, Apparatus for carbonizing. J. Mitchell. 1,784,676; Dec. 9.
Coal, Apparatus for mining and loading. E. C. Morgan. 1,784,156; Dec. 9.
Coal drier. G. P. Jackson. 1,783,965; Dec. 9.
Coating machine. M. T. Chamberlain. 1,783,955; Dec. 9.
Coin-controlled mechanism. R. P. Norton. 1,784,249; Dec. 9.
Coin-controlled switch. L. D. Slusser. 1,784,079; Dec. 9.
Coke and coal or the like, Apparatus and method of transferring. H. Adams. 1,784,650; Dec. 9.
Coke product, Powdered. W. Runge. 1,783,983; Dec. 9.
Columns, Cap for building. G. H. Dean. 1,784,091–2; Dec. 9.
Compacting mechanism. J. C. Pelton. 1,784,385; Dec. 9.
Composition for dentures. S. E. Noyes. 1,784,250; Dec. 9.
Concrete mixer. C. K. Marks and W. G. Weinhold. 1,784,371; Dec. 9.
Conduit and constructing the same. W. H. Collins. 1,784,271; Dec. 9.
Connecter, Electrical. C. H. Conant. 1,784,340; Dec. 9.
Connection, Rotational driving. J. V. Pugh and G. T. Bayliss. 1,784,708; Dec. 9.
Container and means for holding said containers in cooperation. L. J. Fairbanks. 1,784,516; Dec. 9.
Container, Safety milk-bottle. R. W. Parker. 1,784,073; Dec. 9.
Control system. B. F. Meador. 1,784,639; Dec. 9.
Control system. H. S. Pardee. 1,784,310; Dec. 9.
Conveyer device for packages and coat hangers, Spiral. C. E. Constable. 1,783,272; Dec. 9.
Conveyer rack. V. A. Fox. 1,784,229. Dec. 9.
Conveyers, Bundle-transferring device for. C. E. Constable. 1,784,273; Dec. 9.
Cooling compound and lubricant and manufacturing same. F. C. Broeman. 1,784,220; Dec. 9.
Cooling unit, Refrigerator. M. C. Terry Des. 82,770; Dec. 9.
Cord tie. J. T. H. Paterson. 1,784,679; Dec. 9.
Core box. P. F. Devany. 1,784,225; Dec. 9.
Cotton and other vegetable pulps or fibers of a porous absorbing nature, Treating. C. W. Andrews. 1,784,566; Dec. 9.
Cotton blocker and cultivator, Combined. A. E. Pittman. 1,784,313; Dec. 9.
Coupling: *See*—
  Threadless coupling.
Cover and securing means therefor, Tank-dome. J. Beyer. 1,784,480; Dec. 9.
Cover and tent, Combined automobile. H. Sebell. 1,784,115; Dec. 9.
Cover for buses. D. N. Hyman. 1,784,356; Dec. 9.
Cover for dumping vehicles, Roll-top. T. Nolen and J. C. Truemper. 1,784,248; Dec. 9.
Cover, Switch-box plate. F. G. Darlington. 1,784,277; Dec. 9.
Covering and making same, Floor. C. Ellis. 1,784,800–01; Dec. 9.
Covering and making same, Light-colored floor. C. Ellis. 1,784,803; Dec. 9.
Covering and making same, Textured floor. C. Ellis. 1,784,802; Dec. 9.
Covering and making same, Variegated floor. C. Ellis. 1,784,804; Dec. 9.
Covering, Floor. C. Ellis. 1,784,135; Dec. 9.
Covering material and making same. Floor. C. Ellis. 1,784,799; Dec. 9.
Cranberry gatherer. J. E. Morano. 1,784,702; Dec. 9.
Crane for locomotive appurtenances, Work-handling. J. Kwiatkowski. 1,784,694; Dec. 9.
Crate for small animals, Shipping. M. C. Imler. 1,784,187; Dec. 9.
Cream cutter, Frozen-. E. D. Lamphere, jr. 1,784,603; Dec. 9.
Cresol from aqueous solutions of same, Recovering. H. Sulda. 1,784,711; Dec. 9.
Crucibles, Making. W. R. Whitney. 1,784,647; Dec. 9.
Cuffs of knickers, Connecter device for. C. Douglis. 1,784,785; Dec. 9.
Cultivator. J. P. Seaholm. 1,784,499; Dec. 9.
Cultivator, Spring-tooth. E. L. McOsker. 1,784,193; Dec. 9.
Cup: *See*—
  Grease cup.
Current interrupter, Alternating-power-. R. A. Millikan and R. W. Sorensen. 1,784,303; Dec. 9.
Curtain-retaining device. H. Rodstein and I. Nathanson. 1,784,496; Dec. 9.
Cushion tread for footwear. C. Roberts. 1,783,980; Dec. 9.
Cutter: *See*—
  Cream cutter. Weed cutter.
  Stalk cutter.
Cylinder lock. R. G. M. Homolle. 1,784,444; Dec. 9.
Cylinders, Ejector for cutting. J. P. Feeney. 1,784,487; Dec. 9.
Damper, Automatic pipe. R. L. Meyers. 1,784,608; Dec. 9.
Decorative fabric. A. L. Courter. Des. 82,728–32; Dec. 9.
Delivery mechanism for signature-stitching machines. F. J. Greene. 1,784,590; Dec. 9.
Demountable structure. L. M. Parker. 1,784,107; Dec. 9.
Dental lathe and vibrator, Combined. E. A. Nelson and C. E. Larson. 1,784,307; Dec. 9.
Dental supplies, Package of. W. A. Weaver. 1,784,646; Dec. 9.
Derrick. J. W. Brown. 1,784,572; Dec. 9.
Device for carrying heavy bodies on and releasing them from aircraft. A. E. Jones. 1,784,011; Dec. 9.
Die, Forming. R. J. Curtis. 1,784,579; Dec. 9.
Diestock. R. E. Hyde. 1,784,099; Dec. 9.
Diestock, Stamped. R. E. Hyde. 1,783,964; Dec. 9.
Dispensing cartridge, Medicament-. H. S. Cook. 1,783,956; Dec. 9.
Display device. A. W. Johnson. 1,784,597; Dec. 9.
Display rack for ornamental tile. A. B. Coleman. 1,784,577; Dec. 9.
Dolls and like toys, Eye set for. S. Marcus and A. Konoff. 1,784,531; Dec. 9.
Dolls, Eye mounting for. L. J. Grubman. 1,784,519–20; Dec. 9.
Door, Double overhead. C. G. Johnson. 1,784,292; Dec. 9.
Door-opening device. W. Miller. 1,784,374; Dec. 9.
Door, Silo. E. F. Zuber and F. A. Dowling. 1,783,992; Dec. 9.
Dough-dividing apparatus. F. H. Van Houten. 1,784,559; Dec. 9.
Drawworks, Two-post, two-speed, three-shaft portable. E. Timbs and L. E. Zerbe. 1,783,988; Dec. 9.
Drier: *See*—
  Coal drier.
Drill apparatus, Multiple-. W. P. Hunt. 1,784,288; Dec. 9.
Drilling apparatus. J. S. Mitchell. 1,784,154; Dec. 9.
Drilling apparatus. L. H. Wellensiek. 1,784,404; Dec. 9.
Drive, Automotive. T. Jensen. 1,784,524; Dec. 9.
Drive for grinder wheels, Electric. A. G. Decker. 1,784,133; Dec. 9.
Drive for motor boats. K. Haussmann. 1,784,354; Dec. 9.
Dump body, Vehicle. R. T. Osman. 1,784,464; Dec. 9.

Dyes and producing the same, Trisazo. H. E. Woodward. 1,784,617; Dec. 9.
Dyestuffs, Azo. K. Thiess. 1,784,398; Dec. 9.
Dyestuffs from dihalogeno-alkylisatins, Indigoid vat. C. Krauss. 1,784,452; Dec. 9.
Dyestuffs, New azo. E. Fellmer. 1,784,343; Dec. 9.
Dynamo-electric machine. J. F. Lincoln and E. E. Dreese. 1,784,102; Dec. 9.
Earth lenkages in alternating-current lines, Apparatus for controlling and indicating. M. Schleicher. 1,784,546; Dec. 9.
Electric controller, Liquid. H. Brooke. 1,784,332; Dec. 9.
Electric furnace. A. Imbery. 1,784,670; Dec. 9.
Electric-light-bulb jacket or similar article. H. E. Bleier. Des. 82,724; Dec. 9.
Electric signal. M. F. Alder. 1,784,326; Dec. 9.
Electric switch. C. Bramming. Re17,897; Dec. 9.
Electric switch. V. R. Despard. 1,784,514; Dec. 9.
Electric switch. J. D. Hilliard. 1,784,669; Dec. 9.
Electric switch. J. S. Lawson. 1,784,735; Dec. 9.
Electric switch, Single-button. L. H. Harlow. 1,784,437; Dec. 9.
Electrical connecter. B. P. McKinley. 1,784,020; Dec. 9.
Electrical connection device. H. B. Jones. 1,784,236; Dec. 9.
Electrical indicating instrument. I. W. Brogger. 1,784,417; Dec. 9.
Electrical regulator. R. D. Parry. 1,784,642; Dec. 9.
Electrode for electrolytic condensers and the like. R. D. Mershon. 1,784,532; Dec. 9.
Engine: *See*—
Internal-combustion engine. Rotary engine.
Engine construction. A. D. MacFarlane. 1,784,192; Dec. 9.
Engine drive mechanism. R. Abell. 1,784,409; Dec. 9.
Engine, Securing means for internal-combustion. J. J. McBride. 1,784,461; Dec. 9.
Ethers, Manufacturing aminonaphthol. A. Zitscher. 1,784,408; Dec. 9.
Excelsior-cutting machine. J. L. Monkhouse. 1,784,305; Dec. 9.
Exercising device. A. M. Webb. 1,784,082; Dec. 9.
Exercising machine. E. L. Hyde. 1,784,289; Dec. 9.
Exhibition bench. A. Hartmann. 1,784,438; Dec. 9.
Exhibitor, Automatic. P. E. McFarland. 1,784,607; Dec. 9.
Exhibitor, Changeable. E. von der Lippe-Lipski. 1,784,364; Dec. 9.
Fabric: *See*—
Wire fabric.
Fan, Electric. M. F. Oliver. 1,784,072; Dec. 9.
Fastener, Shiftable. D. I. Reiter. 1,784,389; Dec. 9.
Fastening means for cables. J. R. Kearney. 1,783,968; Dec. 9.
Fat or other material from gases, Apparatus for separating. G. W. F. Catlin. 1,784,418; Dec. 9.
Feed-regulating mechanism, Pneumatic. P. Davidson. 1,784,483; Dec. 9.
Fibrous material and article produced thereby, Rubberizing. E. Hopkinson. 1,784,523; Dec. 9.
Filing appliance. W. E. Dunning. 1,784,584; Dec. 9.
Film, Cellulose. S. E. Sheppard and J. G. McNally. 1,784,758; Dec. 9.
Film cut-out. H. E. Butler. 1,784,656; Dec. 9.
Film formation and operation of electrolytic condensers and other apparatus. R. D. Mershon. 1,784,674; Dec. 9.
Filter, Gasoline. M. E. E. Dardani. 1,784,622; Dec. 9.
Filter more particularly for artificial-silk-spinning machines, Exchangeable. W. Zur Löwen. 1,784,103; Dec. 9.
Filter-sand-washing machine. M. L. Bayard. 1,784,798; Dec. 9.
Filtering and cleaning filters, Method and apparatus for. L. L. Dollinger. 1,784,278; Dec. 9.
Filtering apparatus. F. Clasen and H. Lenckerstorf. 1,784,339; Dec. 9.
Filtering apparatus, Electrical. P. H. Geiger and L. O. Grondahl. 1,784,004; Dec. 9.
Filters, Cake-discharging means for pressure. J. A. McCaskell. 1,784,372; Dec. 9.
Filtration system. C. T. Cabrera. 1,784,132; Dec. 9.
Fire-alarm and watchman's recording box, Combination. F. B. Love and B. H. Smith. 1,784,530; Dec. 9.
Firearm, Self-defense. J. H. Westlund. 1,784,563; Dec. 9.
Firearm with two cartridge magazines, Automatic. F. Herlach and T. Rakula. 1,784,355; Dec. 9.
Fire-extinguisher unit. P. Evans and M. P. Stoney. Des. 82,735; Dec. 9.
Fire-extinguishing foam, Method of and system for generating. D. W. Patterson. 1,784,680; Dec. 9.
Fixture, Curtain. J. L. Mohun and H. Piesch. 1,784,375; Dec. 9.
Flexible structure. F. Döppenchmitt. 1,784,582; Dec. 9.
Flour. Process of and apparatus for milling. L. E. Smith. 1,784,762; Dec. 9.
Foldable chair. H. E. Rice. 1,784,390; Dec. 9.
Folding or other device. D. J. Scott. 1,784,757; Dec. 9.
Folding table. T. S. Walker. 1,784,507; Dec. 9.
Footwear. F. F. von Wilmowsky. 1,784,035; Dec. 9.
Form, Expansible toe. W. J. De Witt. 1,784,660; Dec. 9.
Form, Shoe. W. J. De Witt. 1,784,661–2; Dec. 9.
Frame: *See*—
Storage and lock-up frame. Window frame.
Frequency converter. P. D. Flehr. 1,784,228; Dec. 9.
Fringe. I. Grabelsky. Des. 82,741; Dec. 9.
Fruit packing stand. E. R. Walker. 1,784,403; Dec. 9.
Fruit-pitting machine. G. Frova. 1,784,347; Dec. 9.
Fuel briquette. J. S. Ford and F. Murray. 1,784,665; Dec. 9
Fuel burner. B. Peckelhoff. 1,784,747; Dec. 9.
Furnace: *See*—
Chemical furnace. Steam-generating furnace.
Electric furnace. Tempering furnace.
Furnace. F. P. Fairchild. 1,784,586; Dec. 9.
Furnaces, Automatic charging of electric. P. L. J. Miguet. 1,784,699; Dec. 9.
Game apparatus. E. E. Johnson. 1,784,068; Dec. 9.
Garment bag. A. Potdevin. 1,783,979; Dec. 9.
Garment hanger. J. H. Bartlett, jr. 1,784,569; Dec. 9.
Garment, Knitted. M. Gross. Des. 82,743; Dec. 9.
Garment-making machine. N. Giancola. 1,784,687; Dec. 9.
Garment, Woman's combination or convertible. R. Lowenbau. 1,784,369; Dec. 9.
Garments, Making. W. H. Heaton. 1,784,285; Dec. 9.
Gas heater. W. A. Griswald. Des. 82,742; Dec. 9.
Gaseous mixtures, Separation of the constituents of. C. C. Van Nuys and J. L. Schlitt. 1,784,120; Dec. 9.
Gauge: *See*—
Setting gauge. Vapor-pressure gauge.
Gauge for railroad cars, Portable loading. J. Rémond. 1,784,160; Dec. 9.
Gear for internal-combustion engines, Power-transmission. W. J. Still. 1,784,396; Dec. 9.
Gear, Valve. J. S. Keen. 1,784,729; Dec. 9.
Gearing mechanism for washing machines. G. M. Gibson. 1,784,282; Dec. 9.
Gearing, Valve. H. T. Thomas. 1,784,257; Dec. 9.
Generator: *See*—
Steam generator.
Generator. H. Ford. 1,784,624; Dec. 9.
Gill boxes, Front fluted drawing roll for. S. Hadfield and G. J. Bucklitch. 1,784,140; Dec. 9.
Glass: *See*—
Reading glass.
Glass, Apparatus for making composite. J. H. Sherts. 1,783,985; Dec. 9.
Glassworking apparatus. M. A. Steelman. 1,784,763; Dec. 9.
Goggles. R. Malcom. 1,784,151; Dec. 9.
Graders, Loading attachment for road. G. Gardner. 1,784,666; Dec. 9.
Grate key. G. Ziegler. 1,784,772; Dec. 9.
Grease cup. C. G. Butler and F. C. Woelfer, jr. 1,784,573; Dec. 9.
Grease gun. P. Gresser. 1,784,434; Dec. 9.
Grease gun, Double-acting. A. M. Walstrom. 1,784,260; Dec. 9.
Grinding machine. F. E. Gardner. 1,784,231; Dec. 9.
Grit-distributing device. H. Wallace. 1,784,323; Dec. 9.
Guanidines, Making substituted. R. V. Heuser. 1,784,442; Dec. 9.
Guard for athletes. D. Levinson. 1,784,148; Dec. 9.
Guard for spectacles and eyeglasses. J. B. Kern. 1,784,013; Dec. 9.
Guide and pattern strip and anchor therefor. G. W. Harley. 1,784,353; Dec. 9.
Guy clip. J. R. Kearney. 1,783,967; Dec. 9.
Gyrocompasses, Latitude adjustment for. R. E. Gillmor and R. F. Deimel. 1,784,348; Dec. 9.
Hair-drying hood. W. A. Gunter and C. F. Griesser. 1,784,139; Dec. 9.
Hair-waving device. A. and J. Goodman. 1,784,429; Dec. 9.
Halogenated aromatic hydrocarbon derivatives, Making. E. C. Britton and W. R. Reed. 1,784,467; Dec. 9.
Hammer, Sledge. F. Schweigert. 1,784,688; Dec. 9.
Hand bag. J. Sims. 1,784,759; Dec. 9.
Hand bag, Ladies'. N. B. Hussey. 82,747; Dec. 9.
Handgrip, Automobile. R. Broder. 1,783,954; Dec. 9.
Handle. C. S. Crickmer. 1,784,223; Dec. 9.
Hanger: *See*—
Garment hanger.
Hanger for forms on steel beam construction. F. Kahn. 1,784,448; Dec. 9.
Harrow and tooth thereof. G. J. Budd. 1,784,655; Dec. 9.
Harrow, Drag. C. J. L. Dyer. 1,784,182; Dec. 9.
Harrows and the like, Spring tooth for. A. W. Reynolds. 1,784,613; Dec. 9.
Harrows, Flexible hinged drawbar for. N. Christiansen and C. Mortensen. 1,784,576; Dec. 9.
Harvester thrasher, Combination. J. A. Walsh. 1,784,121; Dec. 9.
Harvesting machine. W. E. Urschel. 1,784,081; Dec. 9.
Hat. C. Steinberg. 1,784,470; Dec. 9.
Hatbox. G. Bruer. 1,784,383; Dec. 9.
Heater: *See*—
Water heater.
Heating apparatus. M. M. Suppes. 1,784,796; Dec. 9.
Heating apparatus, Electric. O. F. and G. E. Lidke. 1,784,528; Dec. 9.
Heating system. A. W. Moulder. 1,784,609; Dec. 9.
Heating systems, Adjusting unit for. A. J. Loepsinger and I. W. Knight. 1,784,673; Dec. 9.
Heating systems, Control apparatus for. F. I. Raymond. 1,784,538; Dec. 9.
Hinge, Toilet-seat. G. Johnson. 1,784,630; Dec. 9.

Holder. E. F. Kaiser. 1,784,237; Dec. 9.
Holder, Adjustable license-plate. F. H. Naggatz. 1,784,196; Dec. 9.
Holder and cutter, Twine. H. J. Tynan. 1,784,258; Dec. 9.
Holder, Band-saw. F. Lehmbeck. 1,784,696; Dec. 9.
Holder, Bit or drill. W. B. Nurdoch. 1,784,380; Dec. 9.
Holder, Cigarette-package. W. C. Hiering. Des. 82,746; Dec. 9.
Holder, Collapsible-tube. J. I. Ries. 1,784,752; Dec. 9.
Holder, Electrode. J. H. Quisenberry. 1,784,675; Dec. 9.
Holder, Flower. C. A. Boyer. 1,784,621; Dec. 9.
Holder for dusters and the like. H. Hertzberg. 1,784,287; Dec. 9.
Holder for socket-wrench sets. H. G. Rice. 1,784,203; Dec. 9.
Holder, Heated spark-plug. R. Rouillard. 1,784,541; Dec. 9.
Holder, Mop. A. M. Green. 1,784,588; Dec. 9.
Holder, Necktie. W. G. Rau. 1,784,537; Dec. 9.
Holder, Plate. M. G. Rosano. 1,784,112; Dec. 9.
Holder, Pocket. E. W. Perry and G. A. Hudson. 1,784,312; Dec. 9.
Holder, Soap. H. E. Moineau. 1,784,155; Dec. 9.
Hollow bodies, Manufacture of wedge-shaped. L. Staiger. 1,784,501; Dec. 9.
Hood clamp. N. W. Cummins. 1,784,224; Dec. 9.
Hopper mechanism. R. L. Wilcox. 1,784,124; Dec. 9.
Horn, Closed end resonating. M. R. Hutchison. 1,784,596; Dec. 9.
Hose spanner and scaling hook, Fireman's. W. Osterby. 1,784,535; Dec. 9.
Humidifying device. C. J. Gustafson. 1,784,725; Dec. 9.
Hydraulic jack. B. Goldman. 1,784,428; Dec. 9.
Hydraulic jack. J. P. Shevlin. 1,784,116; Dec. 9.
Hydraulic jack. L. C. Stukenborg. 1,784,553; Dec. 9.
Hydrocarbons, Cracking. E. W. Beardsley and M. W. Colony. 1,784,126; Dec. 9.
Hydrocarbons, Cracking. G. C. Hargrove and W. B. Montgomery. 1,784,065; Dec. 9.
Hydrocarbons, Treatment of. S. C. Carney. Re17,898; Dec. 9.
Hydroxides of alkali metals, Producing. E. Heinze. 1,784,066; Dec. 9.
Hypochlorites, Making easily-soluble stable. P. R. Hershman. 1,784,286; Dec. 9.
Ignition systems, Current controlling or insulating device for. E. Martin and J. Josinsky. 1,784,697; Dec. 9.
Illumination for microscopy. H. S. George. 1,784,425; Dec. 9.
Insulation article, Molded. W. C. Tregoning. 1,784,557; Dec. 9.
Insulators, Apparatus for making. K. A. Hawley. 1,784,792; Dec. 9.
Insulators, Manufacture of. D. H. Rowland. 1,784,392; Dec. 9.
Internal-combustion engine. L. S. Tisdale. 1,784,712; Dec. 9.
Ironing board. L. E. Watts. 1,784,715; Dec. 9.
Ironing machine. G. A. Piepenbring. 1,784,200; Dec. 9.
Jack: *See*—
Hydraulic jack.
Jack. J. M. Cantwell. 1,784,574; Dec. 9.
Jewelry. J. Kreisler. 1,784,635; Dec. 9.
Joint: *See*—
Ball-and-socket joint. Rail joint.
Lock joint.
Joint for molds operating by centrifugal force. P. Ferrier. 1,784,344; Dec. 9.
Journal box, Railway-car. F. Maxant. 1,784,069; Dec. 9.
Keto compounds, Reducing organic. E. Münch. 1,784,379; Dec. 9.
Key: *See*—
Grate key.
Knife guard. P. D. Callum. 1,784,334; Dec. 9.
Knitting machine. K. Howie. 1,784,186; Dec. 9.
Knitting machines and the like, Electric stop mechanism for. J. Wachsman. 1,784,560; Dec. 9.
Knitting machines, Detector mechanism for. R. G. Jennings. 1,784,446; Dec. 9.
Lace. B. A. Ball. Des. 82,721; Dec. 9.
Lacing device for corsets and like articles. J. Lindauer. 1,784,458; Dec. 9.
Ladder. M. Bauer. 1,784,413; Dec. 9.
Laminated sheet atructure. E. B. Carns. 1,784,511; Dec. 9.
Lamp. C. S. Ricker. 1,784,539; Dec. 9.
Lamp, Automobile running-board. W. A. Gullette. 1,784,668; Dec. 9.
Lamp, Battery hand. W. B. Schulte. 1,784,114; Dec. 9.
Lamp, Floor-type therapeutic. F. A. Anderson. Des. 82,776; Dec. 9.
Lamp for motor and like vehicles. M. Swenson, jr. 1,784,320; Dec. 9.
Lamp-stand, Bracket. A. A. Witz. Des. 82,771; Dec. 9.
Lamp, Table therapeutic. F. A. Anderson. Des. 82,775; Dec. 9.
Lapping machine, Automatic. H. J. Wills. 1,784,648; Dec. 9.
Last, C. I. Lander. 1,784,454; Dec. 9.
Last, Boot. G. J. Demoucron. 1,784,181; Dec. 9.
Latch, Sash. J. F. Levan. 1,784,147; Dec. 9.
Laundry machine. A. W. Altorfer. 1,784,564; Dec. 9.
Lavatory or washstand. W. H. Oldfield. 1,784,641; Dec. 9.
Lawn-trimming device. G. F. Minikhiem. 1,784,022; Dec. 9.
Lead-bearing material, Treating. A. Stewart. 1,783,986; Dec. 9.
Lettering machine. L. McDonald. 1,784,152; Dec. 9.
Level, Double-reading plumb. J. and O. A. Sinner. 1,784,550; Dec. 9.
Light, floor light, or skylight, Vault. L. W. Mulford. 1,784,678; Dec. 9.
Light rays, Apparatus for the projection of. G. Thornton-Jones. 1,784,357; Dec. 9.
Lighter, Table. C. H. Lawrence. Des. 82,749; Dec. 9.
Lighting having a daylight effect, Artificial. H. Bertling. 1,784,171; Dec. 9.
Limit switch. C. R. Kelty. 1,784,672; Dec. 9.
Lingerie clasp. M. Crawford. 1,784,482; Dec. 9.
Linking machine. J. B. Valton. 1,784,713; Dec. 9.
Liquid-dispensing device. E. K. Skonberg. 1,784,795; Dec. 9.
Liquids, Control member for. P. W. Des Roches. 1,783,959; Dec. 9.
Listening and selecting apparatus. A. Bloch. 1,784,172; Dec. 9.
Lock: *See*—
Cylinder lock.
Lock. L. E. Miquet. 1,783,971; Dec. 9.
Lock. E. L. Teich. 1,784,208; Dec. 9.
Lock joint. L. D. Lovekin. 1,784,492; Dec. 9.
Lock washer. R. E. Clegg. 1,784,269; Dec. 9.
Locomotive-driving-rod journals, Method and mechanism for lubricating. R. S. Williams. 1,784,405; Dec. 9.
Locomotive sanding device. V. L. Frantz and O. O. Lemon. 1,784,051; Dec. 9.
Loom. L. Viscolosi. 1,784,400; Dec. 9.
Loom, Needle. F. E. Ashton. 1,783,994; Dec. 9.
Loom, Removing the harness and stopping instrumentalities from a. J. H. Becker. 1,784,127; Dec. 9.
Loud-speaker. M. R. Hutchison. 1,784,594; Dec. 9.
Loud-speaker and circuit therefor. C. L. Farrand. 1,784,486; Dec. 9.
Lubricating method and apparatus. R. R. Roberts. 1,783,981; Dec. 9.
Lubricating system for chain drives. D. B. Perry. 1,783,978; Dec. 9.
Lubrication by means of capillary elements, Apparatus for. M. Koehler. 1,784,732; Dec. 9.
Lubrication of internal-combustion engines. A. H. R. Fedden. 1,784,788; Dec. 9.
Lubricator for railway journal boxes. C. B. Royal. 1,784,542; Dec. 9.
Lumber and other materials, method of and apparatus for conditioning. G. D. Harris. 1,784,727; Dec. 9.
Machine for babbitting sleeve bearings. C. H. Leis. 1,784,146; Dec. 9.
Machine for cutting angular ends. E. J. O'Neill. 1,784,494; Dec. 9.
Machine for dyeing and treating yarn. J. H. Thompson. 1,784,399; Dec. 9.
Machine for manufacturing metal chain mail. E. Schofer. 1,784,254; Dec. 9.
Machine for production of pile fabrics. P. S. Smith and E. G. Jegge. 1,784,552; Dec. 9.
Machine for refolding paper trays or the like. S. Bergstein. 1,784,571; Dec. 9.
Machine for welding. J. S. Newell. 1,784,024; Dec. 9.
Machine for wrapping cigars and similar articles. F. Grover. 1,784,349; Dec. 9.
Mail box, Rural. J. B. Johnson. 1,784,447; Dec. 9.
Masonry, Anchorage in. H. Rosenberg. 1,784,754; Dec. 9.
Massaging device. L. A. Mekler. 1,784,301; Dec. 9.
Matches and match tape, Method of and machine for manufacturing. J. Rinne. 1,784,111; Dec. 9.
Material-handling apparatus. J. H. Kerber. 1,784,144; Dec. 9.
Material strip for spring-tooth lock washers. R. T. Hosking. 1,784,142; Dec. 9.
Materials from moving aircraft, Process and apparatus for atomizing. N. E. Oglesby and F. R. Weaver. 1,784,157; Dec. 9.
Matrix for typographical machines. I. Fujii. 1,784,789; Dec. 9.
Mattress. E. Kriege. 1,784,294; Dec. 9.
Measuring, Method and apparatus for. T. R. Harrison. 1,784,522; Dec. 9.
Meats, Tendering. P. J. Deacon. 1,784,580; Dec. 9.
Mechanical bucking horse. R. H. Fike. 1,784,183; Dec. 9.
Mechanical movement. N. L. Hammarström and E. A. Hoving. 1,784,185; Dec. 9.
Mechanical movement. E. Klahn. 1,784,450; Dec. 9.
Medicine. L. A. Wilson. 1,784,324; Dec. 9.
Metal articles, Coating. F. M. Becket. 1,784,570; Dec. 9.
Metal building construction, Sheet-. J. F. Loucks. 1,784,368; Dec. 9.
Metal, Cutting slots in. C. J. Coberly. 1,784,513; Dec. 9.
Metal reenforcement for timber poles. A. J. Wiley. 1,784,770; Dec. 9.
Meter-box lid. M. F. Smith. 1,784,551; Dec. 9.
Methanol from pyroligneous acid liquor, Removing. J. M. Coahran. 1,784,270; Dec. 9.
Metroscopic force-measuring instrument. R. Craig. 1,784,046; Dec. 9.

Mica tubes and sheets, Manufacture of. A. Lloyd. 1,784,737; Dec. 9.
Mill: *See*—
Rolling mill.
Minerals. Apparatus for agglomerating and roasting. A. de Samsonow. 1,784,658; Dec. 9.
Minerals by froth flotation, Concentration of. L. W. Ferris. 1,784,280; Dec. 9.
Mirror, Rear-vision. V. E. Showalter. 1,784,710; Dec. 9.
Mixer: *See*—
Concrete mixer.
Modulating system. J. J. Numans. 1,784,610; Dec. 9.
Moisture from vapor, Apparatus for separating. J. Hamill. 1,784,627; Dec. 9.
Mold and making the same, Pottery. W. J. Miller. 1,784,373; Dec. 9.
Mold for casting metal bodies, Compound. G. Bühler. 1,784,174; Dec. 9.
Mold for casting sulphur. W. von Dieterich. 1,784,769; Dec. 9.
Mold form construction. D. Bierhaalder. 1,784,329; Dec. 9.
Mold-pattern units, Positioning. T. J. Flack. 1,784,345; Dec. 9.
Molding apparatus for pneumatic tubes, tires, and the like. W. L. Fairchild. 1,784,623; Dec. 9.
Molding machine. W. Lewis. 1,784,457; Dec. 9.
Molds, Apparatus for preparing castnig. B. L. van der Lande and G. Komen. 1,784,714; Dec. 9.
Monosaccharide material. T. B. Wagner. 1,784,402; Dec. 9.
Motion-arresting means for motor-propelled vehicles. J. B. Kirby. 1,784,145; Dec. 9.
Motor-control switch. W. S. Edsall. 1,784,226; Dec. 9.
Motor driving mechanism, Wave. C. E. Garwood. 1,784,424; Dec. 9.
Motor for loud-speakers. C. L. Farrand. 1,784,517; Dec. 9.
Motor system, Induction synchronous. F. Jeffrey. 1,784,235; Dec. 9.
Mounting for automatic guns. C. A. Larsson. 1,784,016; Dec. 9.
Mounting for temperature-responsive elements. H. Schlaich. 1,784,756; Dec. 9.
Mower, Lawn. F. T. Farmer. 1,784,342; Dec. 9.
Mowing machine. A. L. Allen. 1,784,327; Dec. 9.
Musical alarm. H. Fahrenholtz. 1,784,049; Dec. 9.
Neckband for sweaters and the like, Corded-edge knit. C. Seidman. 1,784,548; Dec. 9.
Necktie. M. Halpern and W. Mayer. 1,784,351; Dec. 9.
Necktie structure. M. Halpern and W. Mayer. 1,784,352; Dec. 9.
Nest, Sanitary poultry. F. Lage. 1,784,101; Dec. 9.
Net-making machines, Operating mechanism for. S. Kakuda. 1,784,188; Dec. 9.
Nozzle, Cement-gun. E. C. Swann. 1,784,503; Dec. 9.
Nozzle, Lawn-sprinkler. P. E. Heal. Des. 82,745; Dec. 9.
Nut-tapping machine. D. Kelleher. 1,784,631; Dec. 9.
Odometer. J. Zubaty. 1,784,773; Dec. 9.
Oil burner. G. H. Bowler. 1,784,173; Dec. 9.
Oil burner. M. W. Wood. 1,784,771; Dec. 9.
Oil composition, Fatty-. C. F. Kaegebehn. 1,784,360; Dec. 9.
Oil composition, Mineral-. C. F. Kaegebehn. 1,784,359; Dec. 9.
Oil cracking, Method and apparatus for. J. H. Welch. 1,784,562; Dec. 9.
Oil, Dewaxing petroleum. L. D. Jones. 1,784,525; Dec. 9.
Oil from the shell of the cashew nut, Removing. E. R. Hughes. 1,784,628; Dec. 9.
Oil, Process and apparatus for the treatment of. D. G. Brandt. 1,784,087; Dec. 9.
Oil, Recovering and increasing the production of. P. E. Workman. 1,784,214; Dec. 9.
Oil-well-pulling machine. M. D. Perry. 1,784,311; Dec. 9.
Oiling system, Supercharger. D. Gregg. 1,784,433; Dec. 9.
Oils containing sulphur, Treating petroleum. C. J. Ziser and J. H. Osmer. 1,784,215; Dec. 9.
Oils, Distillation of hydrocarbon. G. W. Watts, P. L. Krauel, and T. E. Stockdale. 1,784,561; Dec. 9.
Ornament, Shoe. O. R. Recchia. Des. 82,759; Dec. 9.
Ornamental object, Illuminated. E. B. Wilson. 1,784,474; Dec. 9.
Ornamenting surfaces. C. J. O'Neil. 1,784,495; Dec. 9.
Ortho-amino-arylmercaptanes, Manufacturing. R. Herz and M. Schubert. 1,784,441; Dec. 9.
Oscillograph. F. E. Terman. 1,784,119; Dec. 9.
Oven, Coking retort. J. Becker. 1,784,414; Dec. 9.
Oven construction, Electric. F. W. Rogers. 1,784,753; Dec. 9.
Oven structure for electric ranges. G. E. Pickup. 1,784,201; Dec. 9.
Ozonizing apparatus. W. J. Smith. Des. 82,764; Dec. 9.
Package, wrapper, and method of applying wrappers to containers. J. S. Stokes. 1,784,317; Dec. 9.
Paddle, Buoy inflated swimming. M. F. Enke. 1,784,136; Dec. 9.
Pail, Sanitary milk. W. H. Swartz. 1,784,319; Dec. 9.
Paper-folding machine. O. Kleinschmit. 1,784,731; Dec. 9.
Paper machines, Drive for. F. Schiebuhr. 1,784,545; Dec. 9.
Paper-making machine. W. H. Millspaugh. 1,783,969–70; Dec. 9.
Paper mulch and reenforcing and retaining means therefor. D. P. Moore. 1,784,376; Dec. 9.
Paper napkin or the like. R. W. Beach. Des. 82,722; Dec. 9.
Paper of acid character, Filtering and decolorizing. W. S. Baylis. 1,784,509; Dec. 9.
Parachute, Elastically-deformable. L. Avorio. 1,784,774; Dec. 9.
Parachute harness. F. Smith. 1,784,162; Dec. 9.
Pattern-copying machine. E. F. Bonser. 1,783,951; Dec. 9.
Pencils, Apparatus for the manufacture of. W. H. Burden and R. E. Friedlein. 1,783,997; Dec. 9.
Pens, Device for automatically filling fountain. A. Simoni. 1,784,078; Dec. 9.
Petroleum vapors, Alkaline treatment of. R. C. Wheeler and P. W. Prutzman. 1,784,262; Dec. 9.
Phenols, Producing. H. Jordan, W. Schoeller, and R. Clerc. 1,784,599; Dec. 9.
Phonograph stop. W. C. Roe. 1,784,391; Dec. 9.
Phonographs, Double-control device for. W. Rebikoff. 1,784,159; Dec. 9.
Phonographs, Teaching attachment for. W. P. Kent. 1,784,489; Dec. 9.
Photographic cartridge. E. C. Fritts. 1,784,281; Dec. 9.
Photographic reproduction objective with two diaphragms and its application as in printing positives for black and white cinematography, color cinematography, or cinematography in relief. H. Chrétien. 1,783,998; Dec. 9.
Picture-printing machine. S. L. Briggs. 1,783,953; Dec. 9.
Picture-projecting apparatus, Motion-. C. M. Gottschau. 1,784,138; Dec. 9.
Picture projector, Motion-. A. C. Hayden. 1,784,097; Dec. 9.
Picture transmission, Phase-correct coupling for. A. Karolus. 1,784,526; Dec. 9.
Pigment, Producing a. D. V. Ault. 1,784,411; Dec. 9.
Pin: *See*—
Bouquet pin.
Pin magazine for bowling alleys. R. A. Williams. 1,784,084; Dec. 9.
Pipe connection. P. J. Lindgren. 1,784,637; Dec. 9.
Pipe for steam boilers, Dry. F. J. Martin. 1,784,638; Dec. 9.
Pipe suspender, Adjustable. J. R. Morris. 1,784,244; Dec. 9.
Pipe-vise stand. L. C. Young. 1,784,264; Dec. 9.
Pipes, Combined test T and expansion fitting for drainage and soil. E. Kennedy. 1,784,238; Dec. 9.
Piston. F. Jardine. 1,784,291; Dec. 9.
Piston and making same. R. R. Teetor. 1,784,505; Dec. 9.
Piston expander. W. R. McNabb, W. D. Farley and F. J. Starcher. 1,784,018; Dec. 9.
Plane, Amphibian. D. W. Douglas. 1,784,784; Dec. 9.
Plant for the vertical molding of concrete work. H. Fabre. 1,784,422; Dec. 9.
Plastics, Process and apparatus for dividing. S. Schiff. 1,784,113; Dec. 9.
Plow, Combination. G. P. Lucius. 1,784,738; Dec. 9.
Potato-cutting machine. J. A. and C. G. Bergren. 1,784,718; Dec. 9.
Potato gatherer for potato diggers. H. Timm. 1,784,209; Dec. 9.
Powder and colloiding same, Propellant. C. H. Keck. 1,784,189; Dec. 9.
Powdering machine. S. Lipsius. 1,784,459; Dec. 9.
Power take-off unit for tractors. L. J. Campbell. 1,784,088; Dec. 9.
Power transmission, Automatic. A. H. Neuland. 1,784,308; Dec. 9.
Power-transmission device. A. H. Neuland. 1,784,309; Dec. 9.
Press: *See*—
Printing press. Vulcanizing press.
Press for operating upon sheet material. A. Bredenberg. 1,784,721; Dec. 9.
Presses, Effecting rotary operations in step. E. B. Nier. 1,784,745; Dec. 9.
Presses, Motor drive for printing. H. A. W. Wood. 1,784,085; Dec. 9.
Printing-die structure. L. J. Zahn. 1,783,991; Dec. 9.
Printing machine. H. V. Ball. 1,784,412; Dec. 9.
Printing machine, Photographic process. W. J. Synder. 1,784,206; Dec. 9.
Printing press. O. H. Wolf. 1,784,037; Dec. 9.
Projection screen. D. F. Newman. 1,783,973; Dec. 9.
Propeller shaft. N. F. Hadley. 1,784,436; Dec. 9.
Pulley. G. W. Aldeen. 1,783,993; Dec. 9.
Pulley mount. J. M. Gwinn, jr., and R. E. Oversmith. 1,784,521; Dec. 9.
Pulp production and refining, Wood-. L. A. Braun. 1,784,039; Dec. 9.
Pulverizing process and apparatus. W. B. Pedelty. 1,783,975; Dec. 9.
Pump. J. M. Phillips. 1,784,706; Dec. 9.
Pump for internal-combustion engines, Fuel. J. Benes. 1,784,170; Dec. 9.
Pump, Liquid-dispensing. E. E. Eickmeyer. Des. 82,734; Dec. 9.

Pump, Tire. R. B. Jordan. 1,784,143; Dec. 9.
Pumps, Controller for power-driven. E. W. Seeger. 1,784,205; Dec. 9.
Pumps, Shaft-tubing sustaining device for deep-well. J. A. Wintroath. 1,784,406; Dec. 9.
Putlog. T. H. Kingston. 1,784,601; Dec. 9.
Quenching tank. H. W. Fletcher. 1,784,095; Dec. 9.
Rack: *See*—
Conveyer rack.
Radiator cap and movable headlight. S. Centofanti and A. Marchetti. 1,784,043; Dec. 9.
Radiator mounting. S. A. Stranahan. 1,784,766; Dec. 9.
Radiocabinet. E. W. Zwiebel. Des. 82,772–4; Dec. 9.
Radio receiving system. A. F. Van Dyck. 1,784,210; Dec. 9.
Radio receiving system. G. von Arco. 1,784,506; Dec. 9.
Rail joint. J. A. Larson. 1,784,604; Dec. 9.
Rail joints, Construction for rehabilitating. M. Markley. 1,784,370; Dec. 9.
Railway-crossover frog construction. A. L. Vissat. 1,784,211; Dec. 9.
Railway tie. D. B. Macneir. 1,784,606; Dec. 9.
Railways, Temporary extension for mine. A. R. Long. 1,784,307; Dec. 9.
Raincoat. C. H. Place. 1,784,158; Dec. 9.
Range. A. Stockstrom. Des. 82,765–6; Dec. 9.
Range, Coal. J. Teller. Des. 82,769; Dec. 9.
Range, Gas. A. Stockstrom and A. H. Brodbeck. 1,784,764; Dec. 9.
Range or similar article. A. Stockstrom. Re17,900; Dec. 9.
Reading glass. J. B. Bander. 1,784,168; Dec. 9.
Receptacle, Ice. E. W. Heisey. 1,784,232; Dec. 9.
Recorder: *See*—
Temperature recorder.
Rectifying switch. J. B. Wantz. 1,784,122; Dec. 9.
Reel: *See*—
Chalk-line reel.
Regulator: *See*—
Electrical regulator. Volume regulator.
Temperature regulator.
Resistance units, Preparing. L. O. Grondahl. 1,784,435; Dec. 9.
Rim, Tire. E. Patrone. 1,784,383; Dec. 9.
Rims, Device for expanding and contracting demountable. A. L. Goldsmith and P. W. Rogers. 1,784,283; Dec. 9.
Ring. A. Sager. Des. 82,760; Dec. 9.
Road-surfacing machine. H. A. Ingalls. 1,784,691; Dec. 9.
Roll, Electrically-operated edge-driven. F. Möller. 1,784,304; Dec. 9.
Roller bracket, Shade and awning. J. Beards and L. L. Tetelman. 1,784,478; Dec. 9.
Rollers, Making cylindrical. B. G. Nice. 1,784,463; Dec. 9.
Rolling mill. K. Gruber. 1,784,791; Dec. 9.
Roof. C. F. Walp. 1,784,508; Dec. 9.
Roof for carriage bodies. E. Delale. 1,784,180; Dec. 9.
Rotary engine. R. E. Cornwell. 1,784,578; Dec. 9.
Rotary sprinkler. H. N. Potter. 1,784,314; Dec. 9.
Rubber and product obtained therefrom, Vulcanizing. W. Scott. 1,784,498; Dec. 9.
Rubberlike composition, Soft. E. H. Moss. 1,784,070; Dec. 9.
Rug. C. De Benedictis. 1,784,657; Dec. 9.
Rug and making same, Floor. B. N. Lougovoy. 1,784,805; Dec. 9.
Running board, Composite. B. Bronson. 1,784,782; Dec. 9.
Safety device for electric-lamp bulbs. P. G. Argüelles. 1,784,167; Dec. 9.
Sales apparatus, Coin-controlled. F. Eller. 1,784,585; Dec. 9.
Salute and making same. A. Cimorosi. 1,783,999; Dec. 9.
Sampler. R. W. Ellms. 1,784,485; Dec. 9.
Sausage-casing machine. J. S. Krob. 1,784,693; Dec. 9.
Sawing machine, Portable. H. Rich. 1,784,709; Dec. 9.
Scale. H. E. Knupp. Des. 82,748; Dec. 9.
Scraper-control mechanism. W. H., I. D., and R. E. Guy. 1,784,284; Dec. 9.
Screen: *See*—
Projection screen.
Screw cap. H. J. Carr. 1,784,089; Dec. 9.
Screw, Self-locking. C. G. Olson. 1,784,026; Dec. 9.
Screw, Set. G. A. Moore. 1,784,377; Dec. 9.
Seal, Leak-preventing. M. Masterson, and O. Markel. 1,784,104; Dec. 9.
Seal, Liquid. C. T. Kemp, and N. E. Ryckman. 1,784,100; Dec. 9.
Seat: *See*—
Car seat. Toilet seat.
Stool seat.
Seat assembly. W. Marshall, and L. S. Woodhull. 1,784,241; Dec. 9.
Seat covers and the like, Attaching. G. A. King. 1,784,361; Dec. 9.
Securing means. G. E. Roedding. 1,784,204; Dec. 9.
Seed-corn stringer. M. Holum. 1,784,690; Dec. 9.
Seismograph, Electrical recording. H. Benioff. 1,784,415; Dec. 9.
Separator. F. Eickholt. 1,784,664; Dec. 9.
Setting gauge. G. A. De Vlieg. 1,784,093; Dec. 9.
Sewer inlets, Apparatus for automatic opening and closing of. O. Rocas. 1,784,076; Dec. 9.
Sewing-machine attachment. R. J. Sailer. 1,784,614; Dec. 9.
Sewing-machine feed. J. Garde. 1,784,724; Dec. 9.
Sewing-machine presser foot. A. J. Carmichael, and O. Balzano. 1,784,177; Dec. 9.
Sewing machines, looper-actuating mechanism for. A. B. Clayton. 1,784,512; Dec. 9.
Shade and awning, Combined. E. E. McGrew. 1,784,300; Dec. 9.
Shade, Lamp. I. E. de Sherbinin. 1,784,048; Dec. 9.
Shears: *See*—
Automatic shears.
Sheet feeder. H. Ehlig. 1,783,962; Dec. 9.
Sheet-feeding device. C. E. Christophel. 1,784,835–6; Dec. 9.
Sheet piling. C. Beaujean. 1,784,777; Dec. 9.
Shock absorber. J. P. Baldwin and C. Garver. 1,784,328; Dec. 9.
Shock absorber. P. Grabler. 1,784,005; Dec. 9.
Shock absorber. L. L. Lomar. 1,784,529; Dec. 9.
Shock absorber. H. Ludwig. 1,784,191; Dec. 9.
Shock reducer for vehicles provided with leaf springs. H. F. J. Bernaerts. 1,784,128; Dec. 9.
Shoe. R. A. Selby. Des. 82,761; Dec. 9.
Shoe and making same. A. L. Fried. 1,784,806; Dec. 9.
Shoe, Arch or truss. L. Davidson. 1,783,958; Dec. 9.
Shoe stretcher. I. Fantino. 1,784,341; Dec. 9.
Shoes, Leveling. C. I. Lander. 1,784,455; Dec. 9.
Shuttles, Adjustable gripper for. W. H. Bahan. 1,784,266; Dec. 9.
Sign. W. F. Morton. 1,784,704; Dec. 9.
Sign, Animated. E. von der Lippe-Lipski. 1,784,365; Dec. 9.
Sign, Illuminated. B. Emis. 1,783,963; Dec. 9.
Sign, Sectional illuminated. B. A. Morton. 1,784,677; Dec. 9.
Signal: *See*—
Electric signal
Signaling Submarine. R. D. Fay and H. G. Dorsey. 1,784,137; Dec. 9.
Signaling system. W. A. Tolson. 1,784,645; Dec. 9.
Sinkers for knitting machines, Manufacturing. H. E. Stout. 1,784,256; Dec. 9.
Skate, Roller. J. T. Smith. 1,784,761; Dec. 9.
Skins, Plating. A. C. Brill. 1,783,952; Dec. 9.
Snowplow. E. A. Brattlien. 1,784,331; Dec. 9.
Soap, Cake of. C. A. Crary. Des. 82,777; Dec. 9.
Socket, Electric-lamp. H. Hertzberg. 1,784,440; Dec. 9.
Socket fitting, Electric. L. Propp. 1,784,388; Dec. 9.
Solar radiations for therapeutic purposes, Apparatus for utilizing. A. P. Ousdal. 1,784,382; Dec. 9.
Speed-control device, Variable-. H. L. Tanner. 1,784,504; Dec. 9.
Spindles in textile-spinning machines, Driving. J. Berlinerbau. 1,784,719; Dec. 9.
Spinning machines, Driving means for the rollers of. P. Devaux. 1,784,659; Dec. 9.
Split segmental washer. A. F. Gillet. 1,784,667; Dec. 9.
Spoon, Beater. G. A. Carlson. 1,784,575; Dec. 9.
Spoon or similar article. G. N. Allen, M. G. Parker, and E. H. Kreps. Des. 82,719; Dec. 9.
Spray-cooling device. L. T. Mart. 1,784,019; Dec. 9.
Spraying device. L. A. Moffet. 1,784,243; Dec. 9.
Spring clip. J. Barnes. 1,784,717; Dec. 9.
Sprinkler: *See*—
Rotary sprinkler.
Sprinkler. J. T. Plumer. 1,784,251; Dec. 9.
Stage-lift flowing device. A. Boynton. 1,784,720; Dec. 9.
Stalk cutter. C. R. Alexander. 1,784,410; Dec. 9.
Stand: *See*—
Fruit-packing stand. Pipe-vise stand.
Stand for portable typewriters, Foldable copy. P. Schano. 1,784,253; Dec. 9.
Starter, Engine. R. P. Lansing. 1,784,190; Dec. 9.
Stator for dynamo-electric machines and making the same. A. P. Wood. 1,784,649; Dec. 9.
Stators for dynamo-electric machines, Making. H. G. Reist. 1,784,643; Dec. 9.
Steam, Apparatus for and method of generating. H. Gleichmann. 1,784,426; Dec. 9.
Steam-generating furnace. T. F. Downey and J. Donald. 1,784,134; Dec. 9.
Steam generator. W. R. Wood. 1,784,407; Dec. 9.
Steam generator or water heater. T. Clarkson. 1,784,338; Dec. 9.
Steam trap. J. Messmer. 1,784,153; Dec. 9.
Steel and rubber article, Composite. B. Bronson. 1,784,781; Dec. 9.
Steering device, Trailer-. L. E. Williams. 1,784,263; Dec. 9.
Steering gear. F. F. Chandler. 1,784,044; Dec. 9.
Steering mechanism for coaster wagons. F. Leicht. 1,784,017; Dec. 9.
Steering sight adapted to be fitted to the mudguards of motor vehicles. O. Rensonnet. 1,784,466; Dec. 9.
Steering wheel. H. T. Kraft. 1,784,733; Dec. 9.
Stenciling apparatus. E. R. Van Bergen. 1,784,616; Dec. 9.
Stereoscopic views, System for mounting. A. W. Engel. 1,784,227; Dec. 9.
Stirrup, Walking-beam. H. H. Franks. 1,784,003; Dec. 9.
Stoker, Mechanical. W. M. Duncan. 1,784,001; Dec. 9.
Stone spreader. D. M. Renton, E. N. Long, jr., and A. E. Murphy. 1,784,202; Dec. 9.

Stool seat. L. M. Michelson and J. L. Haynes. 1,784,021; Dec. 9.
Stop, Auxiliary air-pressure. E. J. Olsen. 1,784,705; Dec. 9.
Stop for sawmill-carriage headblocks, Adjusting. C. A. Carbaugh. 1,784,175; Dec. 9.
Storage and lock-up frame, Type-form. F. W. Muller. 1,784,533; Dec. 9.
Store-front construction. F. and I. Himmel. 1,784,689; Dec. 9.
Stove, Oil heating. W. L. Cooper. 1,784,000; Dec. 9.
Strap: *See*—
Watch strap.
Strap-stretching device. R. H. Norton. 1,784,025; Dec. 9.
Submarine, Rescue. L. Y. Spear. 1,784,500; Dec. 9.
Subterranean surveys, Making. H. C. Hayes. 1,784,439; Dec. 9.
Sulphonic compound and making same, Organic metallo mercapto. W. Schoeller, E. Borgwardt, and A. Feldt. 1,784,497; Dec. 9.
Superheater, Locomotive. J. E. Muhlfeld and J. C. Chapple. 1,784,378; Dec. 9.
Support and oil stove, Oil-can. G. W. West. 1,784,716; Dec. 9.
Support, Christmas-tree. V. Dahl. 1,784,090; Dec. 9.
Support, Collapsible basket. W. A. Lynds. 1,784,240; Dec. 9.
Support, Easel. S. Lear. 1,784,736; Dec. 9.
Support for railway-car side doors, Adjustable. V. E. Sisson. 1,784,029; Dec. 9.
Support, Locomotive-boiler. E. O. Elliott. 1,784,787; Dec. 9.
Support, Pump-motor. P. A. Myers. 1,784,245; Dec. 9.
Support, Swiveled lamp-shade. F. J. Murphy. 1,784,306; Dec. 9.
Support, Thermostat. W. W. Carson. 1,784,042; Dec. 9.
Support, Thermostat. T. R. Clark. 1,784,045; Dec. 9.
Support, Thermostat. J. V. Giesler. 1,784,058–9; Dec. 9.
Surfacing machine. J. H. Fox and W. Owen. 1,783,960; Dec. 9.
Swab, Fluid-operated. H. W. Fletcher. 1,784,096; Dec. 9.
Sweeper. J. L. Aultman. 1,784,567; Dec. 9.
Switch: *See*—
Coin-controlled switch. Motor-control switch
Electric switch. Rectifying switch.
Limit smitch.
Switch. E. N. Jacobi. 1,784,290; Dec. 9.
Switch for electric grinders, Valve-controlled. H. Meyer. 1,784,493; Dec. 9.
Switch for electric motors, Governor. F. Meyer. 1,784,675; Dec. 9.
Switch mechanism, Electric snap-. W. C. Stevens and G. J. Meuer. 1,784,207; Dec. 9.
Switches, Conditioning electric. R. A. Millikan and R. W. Sorensen. 1,784,302; Dec. 9.
Table: *See*—
Folding table.
Table. W. A. French. Des. 82,739; Dec. 9.
Table and ironing board, Combined. A. H. Kennedy. 1,784,449; Dec. 9.
Tank: *See*—
Quenching tank. Vacuum tank.
Tank-vent device. J. B. Holtson. 1,784,067; Dec. 9.
Target, Golfer's practice. G. Lester. 1,784,363; Dec. 9.
Telephone device, Sanitary. C. Miller. 1,784,700; Dec. 9.
Telephone system. F. Merk. 1,784,698; Dec. 9.
Temperature recorder, Continuous iron-. H. W. Dietert. 1,784,420; Dec. 9.
Temperature regulator. J. V. Giesler. 1,784,062–3; Dec. 9.
Tempering furnace, Rotary. E. Goerig. 1,784,427; Dec. 9.
Testing device for impulse senders. T. P. Preist. 1,784,612; Dec. 9.
Textile fabric. V. Hamill. Des. 82,744; Dec. 9.
Textile fabric. C. F. Pearce, jr. No. 82,757; Dec. 9.
Textile machines, Clearer and slub catcher for. W. M. Hastings. 1,784,141; Dec. 9.
Textile products with reduced lustre, Preparing artificial. T. Koch. 1,784,014; Dec. 9.
Thermostat. B. J. Pepper. 1,784,465; Dec. 9.
Threadless coupling. M. Schawrow. 1,784,393; Dec. 9.
Throttle mechanism for internal-combustion engines. F. Jehle. 1,784,671; Dec. 9.
Thumb guard, Manicurists'. M. V. Shane. 1,783,984; Dec. 9.
Thymol, Production of. H. Jordan, W. Schoeller, and R. Clerc. 1,784,598; Dec. 9.
Tie: *See*—
Cord tie. Railway tie.
Tie for cards, sheets, etc. F. C. Many. 1,784,299; Dec. 9.
Timing apparatus. E. Spengeman. 1,784,031; Dec. 9.
Tin contained in the residues of tin-plate manufacture, Recovery of the. J. H. Laley. 1,784,490; Dec. 9.
Tire and marking the same. V. L. Smithers. 1,784,118; Dec. 9.
Toilet seat. J. W. Bishop. 1,784,619; Dec. 9.
Toilet seat. B. C. Booth. 1,784,620; Dec. 9.
Toilet seat. B. C. Booth. 1,784,807; Dec. 9.
Tool, Automobile. G. E. Swanby. 1,784,033; Dec. 9.
Tool, Combination. N. Jenkins. 1,784,488; Dec. 9.
Tool, Garden. A. Pearson. 1,784,108; Dec. 9.
Tool, Sealing. R. E. Westphal. 1,784,213; Dec. 9.
Tool-securing device. E. L. Hurd and C. B. Tibbetts. 1,783,961; Dec. 9.
Tools, Front head for pneumatic. J. H. Jowett. 1,784,012; Dec. 9.
Tooth, Artificial. F. S. Trusler. 1,784,322; Dec. 9.
Top, Convertible automobile. B. B. Ellerbeck. 1,784,279; Dec. 9.
Top, Folding. J. Boca. 1,784,779; Dec. 9.
Top, Pulling hand. C. D. Bell. 1,784,684; Dec. 9.
Toy. J. E. Kline. 1,784,692; Dec. 9.
Toy airplane landing gear. H. T. Kingsbury. 1,784,730; Dec. 9.
Toy bomber, Aircraft. F. A. Berg. 1,783,949; Dec. 9.
Toy construction. H. L. Kraeft. 1,784,634; Dec. 9.
Toy construction, Sheet-metal. H. L. Kraeft. 1,784,633; Dec. 9.
Toy grasshopper. R. A. Blake. 1,783,996; Dec. 9.
Toy tracks, Automatic signaling means for. H. S. Becker. 1,784,778; Dec. 9.
Tractor pilot structure. O. T. Nichol. 1,784,534; Dec. 9.
Tractors, Loading attachment for. C. Underland. 1,784,558; Dec. 9.
Transfer-binding case and release stand therefor. R. F. Power. 1,784,315; Dec. 9.
Transformer. A. J. Sorensen. 1,784,030; Dec. 9.
Transformer, High-frequency. H. G. and H. A. Maerlender. 1,784,297; Dec. 9.
Transit apparatus. J. A. Harriss. 1,784,728; Dec. 9.
Transmission, Automatic. C. G. Mitchell. 1,784,742; Dec. 9.
Transmission, Gear. F. W. Hild. 1,784,593; Dec. 9.
Trap: *See*—
Steam trap.
Tray, Barrel-conveying. K. F. Snow. 1,784,615; Dec. 9.
Truck. G. Parker. 1,784,746; Dec. 9.
Truck on which boosters are mounted, Engine. H. Glaenzer. 1,784,790; Dec. 9.
Tubes, Packing. L. M. Littlefield. 1,784,366; Dec. 9.
Typewriting machine. G. O. Degener. 1,784,047; Dec. 9.
Umbrella. C. R. Moses. 1,783,972; Dec. 9.
Underwear or athletic pants. F. H. Negley. 1,784,744; Dec. 9.
Upholstery, Method and apparatus for filling. J. Ledwinka. 1,784,456; Dec. 9.
Vacuum tank. C. S. Burton. 1,784,129–30; Dec. 9.
Valve. F. J. O'Stroske. 1,784,381; Dec. 9.
Valve-actuating mechanism. C. C. Williams. 1,784,036; Dec. 9.
Valve-actuation means, Poppet-. R. E. and R. E. Wilson. 1,784,123; Dec. 9.
Valve assembly. J. J. McBride. 1,784,460; Dec. 9.
Valve control, Hydrothermostatic. J. J. Lawler. 1,784,734; Dec. 9.
Valve, Dump and seal tubing. H. F. Fortinberry. 1,784,050; Dec. 9.
Valve for oil-well pumps. C. P. Kirkpatrick. 1,784,602; Dec. 9.
Valve for wells, Capping-device. J. W. Hall. 1,784,007; Dec. 9.
Valve, Measuring. A. Slaten. 1,784,255; Dec. 9.
Valve mechanism. J. V. Giesler. 1,784,053; Dec. 9.
Valve mechanism for internal-combustion engines. H. H. Eslinger. 1,784,421; Dec. 9.
Valve mechanism, Hydraulic. C. B. Summers. 1,784,767; Dec. 9.
Valve mechanism, Thermostatically-controlled. W. W. Carson, jr. 1,784,041; Dec. 9.
Valve mechanism, Thermostatically-controlled. J. V. Giesler. 1,784,054–5; Dec. 9.
Valve mechanism, Thermostatically-controlled. J. V. Giesler. 1,784,057; Dec. 9.
Valve mechanism, Thermostatically-controlled. J. V. Giesler. 1,784,061; Dec. 9.
Valve mechanism, Thermostatically-controlled. J. V. Giesler, W. W. Carson, jr., and T. R. Clark. 1,784,056; Dec. 9.
Valve mechanism, Thermostatically-controlled. W. F. Searle, jr. 1,784,077; Dec. 9.
Valve-operating means. H. W. Fletcher. 1,784,094; Dec. 9.
Valve, Poppet. W. Noble. 1,784,640; Dec. 9.
Valve-stem guide. W. L. Ackley. 1,784,086; Dec. 9.
Valve structure. O. J. Leins. 1,784,636; Dec. 9.
Valve unit, Thermostatically-controlled. J. V. Giesler. 1,784,060; Dec. 9.
Valves from sticking, Means to prevent. C. E. Summers. 1,784,555; Dec. 9.
Vapor-pressure gauge. P. M. Gelatt. 1,784,052; Dec. 9.
Vehicle, Child's. W. B. Miles. Des. 82,750–4; Dec. 9.
Vehicle, Motor. C. Berg. 1,784,995; Dec. 9.
Vehicle, Motor. L. R. Buckendale and C. A. Peirce. 1,784,268; Dec. 9.
Vending machine, Coin-controlled. J. H. Farrar. 1,784,587; Dec. 9.
Ventilating device. A. Cauchemont. 1,784,783; Dec. 9.
Ventilator. H. C. Hueglin. 1,784,234; Dec. 9.
Vessel and auxiliary boat therefor. E. J. Shoemaker. 1,784,549; Dec. 9.
Vessels, Manufacturing electrically-welded. H. Stresau. 1,784,080; Dec. 9.
Vibration conductor for the deaf. E. Guerin. 1,784,350; Dec. 9.
Violin bow. C. C. Augustine. 1,784,038; Dec. 9.
Volume regulator, Constant. L. R. Huff. 1,784,009; Dec. 9.

Vulcanization accelerator. H. A. Morton. 1,784,703; Dec. 9.
Vulcanizing press. B. L. Bronson. 1,784,780; Dec. 9.
Washer: *See*—
Lock washer. Split segmental washer.
Washing device. S. R. Wagel. 1,784,401; Dec. 9.
Washing machine. J. H. Draper. 1,784,663; Dec. 9.
Washing machine. L. A. Schurr and F. Breckenridge. 1,784,316; Dec. 9.
Watchcase. F. Baumgartner. 1,784,169; Dec. 9.
Watch strap, Wrist-. I. R. Lederer. 1,784,239; Dec. 9.
Water-gas process. T. W. Stone. 1,784,765; Dec. 9.
Water-gauge guard. W. A. Newman. 1,784,247; Dec. 9.
Water heater. E. L. Badger. 1,784,652; Dec. 9.
Water heater, Electric. W. S. Lang. 1,784,695; Dec. 9.
Webs of flexible material, Coating and impregnating. E. Weinheim. 1,784,797; Dec. 9.
Wedge-cutting machine. E. R. Pollard. 1,784,028; Dec. 9.
Weed cutter. E. Stauverman. 1,784,163; Dec. 9.
Weeder with tractor hitch, Gang. R. M. Largent. 1,784,362; Dec. 9.
Weight-checking device. D. W. Ripley. 1,784,540; Dec. 9.
Weight, Paper. W. C. Porter. 1,784,707; Dec. 9.
Welding apparatus, Arc-. F. Lane and H. J. Morgan. 1,784,015; Dec. 9.
Wheel: *See*—
Steering wheel.
Wheel-breaking machine. E. C. Stolberg. 1,784,471; Dec. 9.
Wheel disks, Forming vehicle. W. N. Booth. 1,784,218; Dec. 9.
Wheel retainer. M. L. Bowers. 1,784,330; Dec. 9.
Wheels, Apparatus for and method of fabricating. J. W. Hughes. 1,784,445; Dec. 9.
Wheels, Hand-grip attachment for steering. J. C. Freeman. 1,784,230; Dec. 9.
Wheels, Precision dressing apparatus for grinding. G. Weidner. 1,784,216; Dec. 9.
Wheels, Traction attachment for vehicle. F. Rightmire. 1,784,681; Dec. 9.
Whirligig. P. S. Coles. 1,784,179; Dec. 9.
Window frame. L. B. Reeb. 1,784,751; Dec. 9.
Wire and its manufacture, Woven. M. H. Durand. 1,784,786; Dec. 9.
Wire fabric, Chain link. A. A. G. Land. 1,784,453; Dec. 9.
Wire-stranding machine. M. Nigro and W. H. Blount. 1,784,105; Dec. 9.
Wire-stripping machine. C. B. Mahan and C. M. Weber. 1,784,298; Dec. 9.
Wire-twisting apparatus. A. Swanbaum. 1,784,318; Dec. 9.
Woodworking machine. E. Teutsch. 1,784,644; Dec. 9.
Wool with ester salts of leuco compounds of vat dyestuffs, Printing. W. Taussig. 1,784,768; Dec. 9.
Workbench. H. T. Hallowell. 1,784,726; Dec. 9.
Workboxes, Lid control for. W. Gillooly. 1,784,518; Dec. 9.
Work-holding implement. H. Greenberg. 1,784,589; Dec. 9.
Wrapper for a box or carton. H. E. Plishker. Des. 82,758; Dec. 9.
Wrapping machine, Lid-. H. B. Kleinsmith, F. R. Neely, and F. W. Doll. 1,784,632; Dec. 9.
Wrench. E. A. G. Werner. 1,784,123; Dec. 9.
Yarns or threads, and apparatus therefor, Manufacture of. W. A. Dickie, T. H. Platts, and L. Latham. 1,784,581; Dec. 9.
Yeast manufacture. J. H. Barrington. 1,784,618; Dec. 9.
Zinc and cadmium, Coating. A. Pacz. 1,784,106; Dec. 9.

CLASSIFICATION OF PATENTS

ISSUED DECEMBER 9, 1930

NOTE.—First number—class, second number—subclass, third number—patent number

2— 2: 1,784,148
14: 1,784,151
39: 1,784,458
72: 1,784,369
87: 1,784,158
90: 1,784,548
151: 1,784,351
1,784,352
193: 1,784,470
224: 1,784,744
228: 1,784,785
243: 1,784,285
4— 162: 1,784,749
197: 1,784,641
236: 1,784,619
237: 1,784,620
1,784,630
1,784,807
5— 357: 1,784,294
7— 1: 1,784,535
8— 7: 1,784,488
8— 5: 1,784,768
19: 1,784,399
9— 21: 1,784,136
10—120.5: 1,784,099
123: 1,783,964
133: 1,784,631
169: 1,784,124
12—128.1: 1,784,662
128.2: 1,784,181
1,784,660
128.5: 1,784,661
129.2: 1,784,341
133: 1,784,454
142: 1,784,455
1,784,806
15— 160: 1,784,567
1,784,568
16— 105: 1,784,029
17— 43: 1,784,693
18— 16: 1,784,780
26: 1,784,686
38: 1,784,623
47: 1,784,769
53: 1,784,498
1,784,703
19— 129: 1,784,140
130: 1,784,659
20— 1.4: 1,783,992
11: 1,784,751
20: 1,784,292
56.4: 1,784,689
100: 1,784,770
22— 9: 1,784,714
13: 1,784,225
33: 1,784,457
58: 1,784,146
68: 1,784,600
149: 1,784,174
158: 1,784,345
174: 1,784,346
23— 86: 1,784,286
127: 1,783,986
184: 1,784,066
250: 1,784,360
252: 1,784,074
24— 6: 1,784,565
11: 1,784,312
1,784,605
30.5: 1,784,679
56: 1,784,537
73: 1,784,482
81: 1,784,717
115: 1,783,967
1,783,969
139: 1,784,252
150: 1,784,361
163: 1,784,794
213: 1,784,389
232: 1,784,635
25— 3: 1,784,792
30: 1,784,344
129: 1,784,373
131: 1,784,329
1,784,422
131.5: 1,784,448
156: 1,784,392
25— 156: 1,784,647
26— 40: 1,784,200
28— 1: 1,784,657
41: 1,784,127
64: 1,784,141
29— 66: 1,784,471
87.1: 1,784,033
148: 1,784,142
1,784,256
148.4: 1,784,463
155.5: 1,784,643
1,784,649
159: 1,784,218
30— 9: 1,784,163
1,784,334
14: 1,784,258
32— 4: 1,784,250
9: 1,784,322
33— 25: 1,784,152
169: 1,784,160
170: 1,784,093
207: 1,784,550
226: 1,784,348
34— 19: 1,784,727
26: 1,784,139
34: 1,783,965
1,784,626
35— 12: 1,784,489
36— 1: 1,784,035
35: 1,783,980
77: 1,784,276
37— 43: 1,784,331
108: 1,784,666
144: 1,784,144
145: 1,784,691
40— 31: 1,784,597
76: 1,784,364
1,784,365
98: 1,784,607
113: 1,784,117
125: 1,784,196
128: 1,784,299
130: 1,783,993
132: 1,784,677
133: 1,784,704
41— 26: 1,784,118
39: 1,784,495
42— 1: 1,784,563
3: 1,784,355
43— 124: 1,784,243
44— 15: 1,784,665
45— 2: 1,784,166
1,784,584
11: 1,784,507
28: 1,784,155
31: 1,784,726
46— 14: 1,784,179
40: 1,783,996
1,784,183
1,784,519
1,784,520
1,784,531
1,784,684
48: 1,784,633
1,784,634
50: 1,784,730
47— 9: 1,784,376
41: 1,784,621
48— 208: 1,784,765
49— 14: 1,783,985
55: 1,784,763
51— 55: 1,783,960
124: 1,784,231
156: 1,784,648
52— 22: 1,784,189
55— 36: 1,784,613
37: 1,784,655
61: 1,784,410
84: 1,784,182
1,784,576
108: 1,784,081
125: 1,784,193
56— 241: 1,784,022
294: 1,784,342
295: 1,784,327
330: 1,784,702
59— 80: 1,784,451
61— 60: 1,784,777
63— 3: 1,784,582
64— 5: 1,783,987
17: 1,783,998
29: 1,784,436
66— 49: 1,784,186
163: 1,784,560
166: 1,784,446
68— 10: 1,784,449
1,784,715
22: 1,784,663
30: 1,784,316
1,784,401
70— 46: 1,783,971
1,784,208
1,784,444
132: 1,784,750
72— 16: 1,784,502
51: 1,784,271
101: 1,784,754
73— 32: 1,784,420
52: 1,784,756
54: 1,784,247
109: 1,784,052
74— 7: 1,784,088
1,784,409
14: 1,784,185
1,784,192
1,784,282
29: 1,784,396
31: 1,784,023
33: 1,784,230
1,784,733
47: 1,784,003
53: 1,784,424
57: 1,784,593
58: 1,784,354
79: 1,784,044
97: 1,784,742
1,784,793
102: 1,784,291
109: 1,784,505
75— 55: 1,784,490
76— 87: 1,784,625
77— 24: 1,784,288
78— 83: 1,784,024
80— 13: 1,784,791
58: 1,784,304
81— 5.1: 1,784,018
9.1: 1,784,213
9.51: 1,784,298
41: 1,784,264
146: 1,784,123
83— 11: 1,783,975
42: 1,784,762
44: 1,784,483
73: 1,783,955
1,784,371
84— 282: 1,784,038
376: 1,784,468
1,784,469
85— 1: 1,784,377
37: 1,784,755
51: 1,784,667
87— 6: 1,784,628
9: 1,784,220
1,784,359
17: 1,784,008
1,784,740
88— 1: 1,784,710
17: 1,784,138
18.4: 1,784,515
24: 1,783,973
1,783,998
1,784,097
29: 1,784,227
39: 1,784,168
40: 1,784,425
55: 1,784,013
89— 16: 1,784,325
40: 1,784,016
91— 44: 1,784,503
59: 1,784,459
68: 1,784,135
1,784,523
1,784,799
1,784,802
91— 68: 1,784,803
70: 1,784,164
1,784,800
1,784,801
1,784,804
1,784,805
70.1: 1,784,670
92— 7: 1,784,197
9: 1,784,161
13: 1,784,566
20: 1,784,039
21: 1,784,509
39: 1,783,969
1,783,970
93— 2: 1,784,701
7: 1,784,349
53: 1,784,571
54: 1,784,632
94— 1: 1,784,728
17: 1,784,353
34: 1,784,678
95— 9: 1,784,758
73: 1,783,953
1,784,206
96— 4: 1,784,188
97— 22: 1,784,313
42: 1,784,362
49: 1,784,534
91: 1,784,738
149: 1,784,499
98— 66: 1,784,783
94: 1,784,234
101— 4: 1,784,721
91: 1,783,991
121: 1,784,616
152: 1,784,037
220: 1,784,085
236: 1,783,990
404: 1,784,533
102— 22: 1,783,999
103— 25: 1,784,205
44: 1,784,706
52: 1,784,096
1,784,110
102: 1,784,406
220: 1,784,050
225: 1,784,602
232: 1,784,242
1,784,720
236: 1,784,129
1,784,130
104— 44: 1,784,554
126: 1,784,694
268: 1,784,741
105— 43: 1,784,787
118: 1,784,729
174: 1,784,790
253: 1,784,477
354: 1,783,954
364: 1,784,472
1,784,473
404: 1,784,484
106— 25: 1,784,462
39: 1,784,070
40: 1,784,014
107— 15: 1,784,113
1,784,559
21: 1,784,603
26: 1,784,431
1,784,432
108— 1: 1,784,508
110— 40: 1,784,001
1,784,772
72: 1,784,586
112— 2: 1,784,456
25: 1,784,713
139: 1,784,614
200: 1,784,512
215: 1,784,724
235: 1,784,177
113— 7: 1,784,131
99: 1,784,589
113: 1,784,445
115: 1,784,358
114— 16.6: 1,784,500
16.7: 1,784,549
66.5: 1,784,071
116— 31: 1,784,466
117— 18: 1,784,105
26: 1,784,580
1,784,581
118— 43: 1,784,719
119— 12: 1,784,685
15: 1,784,438
19: 1,784,187
45: 1,784,101
120— 28: 1,784,253
46: 1,784,078
82: 1,784,707
122— 1: 1,784,426
156: 1,784,652
173: 1,784,338
190: 1,784,134
235: 1,784,407
332: 1,784,149
392: 1,784,491
1,784,629
461: 1,784,378
491: 1,784,638
123— 14: 1,784,578
25: 1,784,725
52: 1,784,671
53: 1,784,712
75: 1,784,421
90: 1,784,036
1,784,257
1,784,767
122: 1,784,006
138: 1,784,170
169: 1,784,541
179: 1,784,190
188: 1,784,555
1,784,640
196: 1,783,981
125— 11: 1,784,261
126— 37: 1,784,764
44: 1,784,000
67: 1,784,796
275: 1,784,753
127— 38: 1,784,402
128— 33: 1,784,082
56: 1,784,301
63: 1,784,289
81: 1,784,032
218: 1,783,956
317: 1,784,337
129— 18: 1,784,315
130— 30: 1,784,209
131— 37: 1,784,443
39: 1,784,296
52: 1,784,386
132— 41: 1,784,429
48: 1,784,430
73: 1,783,984
84: 1,784,646
134— 58: 1,784,411
135— 1: 1,784,115
5: 1,784,199
20: 1,783,972
136— 116: 1,784,592
170: 1,784,216
137— 13: 1,784,551
75: 1,784,609
104: 1,783,959
111: 1,784,673
138— 9: 1,784,116
1,784,428
1,784,553
139— 19: 1,784,690
124: 1,783,994
207: 1,784,266
324: 1,784,400
140— 3: 1,784,254
93: 1,784,025
115: 1,784,318
142— 15: 1,783,951
143— 4: 1,784,321
143— 43: 1,784,709
52: 1,784,028
105: 1,784,175
161: 1,784,696
144— 1: 1,784,644
28: 1,783,997
51: 1,784,111
144— 187: 1,784,305
297: 1,784,544
145— 29: 1,784,663
146— 19: 1,784,347
153: 1,784,397
169: 1,784,718
148— 1: 1,784,060
1,784,221
6: 1,784,106
9: 1,784,613
149— 23: 1,783,952
150— 29: 1,784,748
1,784,759
151— 13: 1,784,269
32: 1,784,026
152— 14: 1,784,681
21: 1,784,383
153— 1: 1,784,034
59: 1,784,745
75: 1,784,579
154— 1: 1,784,552
2.6: 1,784,737
40: 1,784,797
155— 14: 1,784,341
83: 1,784,390
96: 1,784,527
178: 1,784,021
156— 24: 1,784,478
26: 1,784,375
33: 1,784,496
44: 1,784,300
157— 1: 1,784,283
158— 77: 1,784,747
96: 1,784,771
161— 15: 1,784,681
23: 1,784,049
164— 28: 1,784,487
49: 1,784,556
61: 1,784,494
166— 15: 1,784,007
21: 1,784,214
167— 56: 1,784,324
169— 15: 1,784,680
171— 95: 1,784,119
1,784,417
97: 1,784,004
118: 1,784,639
119: 1,784,030
1,784,642
252: 1,784,102
1,784,624
172— 36: 1,784,133
239: 1,784,309
1,784,504
280: 1,784,235
293: 1,784,545
173— 259: 1,784,259
1,784,284
332: 1,784,020
1,784,236
333: 1,784,326
362: 1,784,557
363: 1,784,340
174— 177: 1,784,382
175— 41: 1,784,611
183: 1,784,194
294: 1,784,226
1,784,651
1,784,682
315: 1,784,674
339: 1,784,517
359: 1,784,297
363: 1,784,228
364: 1,784,122
176— 31: 1,784,167
177— 311: 1,784,546
351: 1,784,416
364: 1,784,530
386: 1,784,137
178— 7: 1,784,526
44: 1,784,176
1,784,178
45: 1,784,184
179— 27: 1,784,698
114: 1,784,595
171: 1,784,150
1,784,486

179— 171: 1,784,610
1,784,653
175: 1,784,612
185: 1,784,700
180— 22: 1,783,995
1,784,268
68: 1,784,766
75: 1,784,394
83: 1,784,387
181— 0.5: 1,784,430
25: 1,784,172
27: 1,784,594
1,784,596
28: 1,784,350
182— 6: 1,784,076
183— 57: 1,784,278
1,784,339
80: 1,784,627
85: 1,784,664
106: 1,784,418
115: 1,784,120
184— 6: 1,784,433
1,784,788
7: 1,784,405
15: 1,783,978
45: 1,784,573
64: 1,784,732
185— 2: 1,784,159
186— 11: 1,784,776
188— 8: 1,783,966
71: 1,784,668
78: R. 17,809
1,784,205
1,784,395
88: 1,784,529
106: 1,784,233
130: 1,784,145
1,784,328
1,784,730
152: 1,784,547
189— 1: 1,784,808
19: 1,784,572
34: 1,784,107
1,784,511
36: 1,783,956
42: 1,784,091
1,784,092
85: 1,784,288
192— 48: 1,784,722
58: 1,784,212
122: 1,784,391
126: 1,784,336
193— 12: 1,784,272
194— 9: 1,784,079
10: 1,784,585
85: 1,784,587
97: 1,784,249
195— 20: 1,784,618
196— 19: 1,784,525
30: 1,784,215
36: 1,784,262
47: 1,784,065
50: 1,784,087
1,784,562
66: 1,784,126
85: 1,784,561
197— 65: 1,784,047
198— 27: 1,784,273
33: 1,784,010
131: 1,784,615
134: 1,784,229
199— 65: 1,784,789
200— 11: 1,784,290
16: R. 17,897
38: 1,784,195
47: 1,784,672
48: 1,784,735
52: 1,783,974
1,784,493
54: 1,784,479
67: 1,784,437
1,784,514
80: 1,784,675
115.5: 1,784,388
116: 1,784,207
118: 1,784,656
138: 1,784,450
144: 1,784,302
1,784,303
147: 1,784,760
150: 1,784,669
164: 1,784,697
201— 49: 1,784,440
57: 1,784,332
76: 1,784,435
202— 17: 1,783,982
35: 1,783,983
67: 1,784,270
114: 1,784,676
144: 1,784,414
204— 4: 1,784,532
206— 1: 1,784,568
7: 1,783,979
8: 1,784,333
16: 1,784,203
37: 1,784,169
46: 1,784,366
59: 1,784,281
208— 34: 1,784,419
42: 1,783,949
45: 1,784,746
165: 1,784,692
174: 1,784,761
209— 44: 1,784,246
121: 1,784,540
166: 1,784,280
306: 1,784,219
210— 7: 1,784,132
75: 1,784,564
128: 1,784,798
157: 1,784,319
165: 1,784,622
168: 1,784,103
201: 1,784,372
211— 169: 1,784,577
214— 45: 1,784,650
140: 1,784,558
215— 43: 1,784,089
100: 1,784,232
219— 4: 1,784,384
8: 1,784,015
1,784,075
35: 1,784,201
39: 1,784,695
42: 1,784,528
220— 44: 1,784,067
55: 1,784,198
1,784,480
61: 1,784,516
221— 47.4: 1,784,260
1,784,434
60: 1,784,752
106: 1,784,255
112: 1,784,795
223— 20: 1,784,687
61: 1,784,569
224— 4: 1,784,239
226— 15: 1,784,083
129: 1,784,403
228— 58: 1,784,413
229— 29: 1,784,275
87: 1,784,317
230— 5: 1,784,009
39: 1,784,143
259: 1,784,072
232— 41: 1,784,073
41.3: 1,784,743
49: 1,784,447
233— 21: 1,784,510
234— 11: 1,784,522
235— 144: 1,784,773
236— 34: 1,784,041
1,784,053
1,784,054
1,784,055
1,784,056
1,784,057
1,784,059
1,784,060
1,784,061
1,784,062
236— 34: 1,784,063
1,784,077
58: 1,784,153
78: 1,784,538
93: 1,784,608
99: 1,784,734
238— 10: 1,784,367
115: 1,784,606
188: 1,784,370
218: 1,784,604
240— 1: 1,784,171
3: 1,784,357
7.1: 1,784,320
8.26: 1,784,668
10: 1,784,474
10.5: 1,784,114
41: 1,784,539
61: 1,784,043
73: 1,784,306
108: 1,784,048
242— 58: 1,784,412
77: 1,784,064
244— 1: 1,784,011
1,784,157
2: 1,784,274
1,784,723
1,784,784
5: 1,784,775
14: 1,784,654
15: 1,784,027
21: 1,784,162
1,784,774
31: 1,784,501
245— 6: 1,784,453
10: 1,784,786
246— 81: 1,784,778
382: 1,784,211
247— 23: 1,784,277
37: 1,784,217
248— 14.1: 1,784,461
15: 1,784,245
20: 1,784,716
30: 1,784,204
32: 1,784,244
36: 1,783,976
38: 1,784,090
250— 6: 1,784,645
20: 1,784,506
22: 1,784,210
251— 36: 1,784,460
54: 1,784,094
113: 1,784,381
134: 1,784,086
152: 1,784,636
252— 2: 1,784,543
4: 1,784,536
254— 102: 1,784,574
254— 184: 1,784,311
187: 1,783,988
195: 1,784,521
255— 1: 1,784,485
19: 1,784,154
24: 1,784,404
71: 1,784,476
257— 5: 1,783,950
85: 1,784,095
138: 1,784,040
259— 72: 1,784,385
91: 1,784,307
122: 1,784,416
144: 1,784,575
260— 11: 1,784,497
49: 1,784,452
52: 1,784,379
72: 1,784,617
76: 1,784,398
83: 1,784,343
116: 1,784,583
125: 1,784,442
130.5: 1,784,408
1,784,441
153: 1,784,165
154: 1,784,598
1,784,599
1,784,711
161: 1,784,267
162: 1,784,423
169: R. 17,898
261— 52: 1,784,481
76: 1,784,222
115: 1,784,019
262— 13: 1,784,012
28: 1,784,156
263— 1: 1,784,427
37: 1,784,109
265— 37: 1,784,046
266— 1.5: 1,784,670
1,784,699
21: 1,784,658
267— 1: 1,784,125
10: 1,784,191
48: 1,784,005
53: 1,784,128
268— 3: 1,784,374
270— 37: 1,784,590
65: 1,784,757
67: 1,784,731
271— 28: 1,783,962
62: 1,784,335
273— 35: 1,784,363
43: 1,784,084
123: 1,784,068
275— 2: 1,784,202
277— 24: 1,784,705
279— 5: 1,783,989
52: 1,784,380
60: 1,784,002
280— 36: 1,784,240
98: 1,784,263
114: 1,784,017
169: 1,784,781
1,784,782
281— 33: 1,784,736
42: 1,784,237
285— 50: 1,784,637
115: 1,784,238
171: 1,784,393
286— 7: 1,784,100
9: 1,784,104
287—52.09: 1,784,708
90: 1,784,591
92: 1,784,121
124: 1,784,492
290— 14: 1,784,524
29: 1,784,308
291— 12: 1,784,051
23: 1,784,323
292— 65: 1,784,475
114: 1,784,224
173: 1,784,147
294— 28: 1,784,112
295— 39: 1,783,977
296— 28: 1,784,265
98: 1,784,248
105: 1,784,356
107: 1,784,279
116: 1,784,779
137: 1,784,180
297— 3: 1,784,465
8: 1,784,042
1,784,045
1,784,058
298— 10: 1,784,464
299— 53: 1,784,251
69: 1,784,314
112: 1,784,223
140: 1,784,173
301— 121: 1,784,330
303— 6.1: 1,784,310
304— 39: 1,784,601
306— 13: 1,784,108
20: 1,784,287
33: 1,783,961
308— 87: 1,784,542
180: 1,784,069
1,784,467
218: 1,783,957
312— 141: 1,784,098
183: 1,784,293
191: 1,784,518

U. S. GOVERNMENT PRINTING OFFICE: 1930

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Hypnotic sedative anesthetic preparation. 278,433; Dec. 16; Serial No. 304,849; published Oct. 7, 1930. Class 6.

Acme Shear Company, The, Bridgeport, Conn. Shears and scissors. 278,344; Dec. 16; Serial No. 304,935; published Oct. 7, 1930. Class 23.

Albany Billiard Ball Co., Albany, N. Y. Billiard, pool, etc., balls. 278,289; Dec. 16; Serial No. 304,747; published Sept. 30, 1930. Class 22.

Albany Billiard Ball Co., Albany, N. Y. Balls. 278,392; Dec. 16; Serial No. 304,746; published Sept. 30, 1930. Class 22.

Albany Billiard Ball Co., Albany, N. Y. Balls. 278,393; Dec. 16; Serial No. 304,744; published Sept. 30, 1930. Class 22.

Allcock Manufacturing Co., Ossining, N. Y. Corn plasters. 278,441; Dec. 16; Serial No. 286,096; published Sept. 30, 1930. Class 6.

Amend, Fred W., Co., Chicago, Ill. Candy. 278,310; Dec. 16; Serial No. 304,030; published Oct. 7, 1930. Class 46.

American Colloid Corporation, New York, N. Y. Chemical composition. 278,412; Dec. 16; Serial No. 303,561; published Sept. 16, 1930. Class 6.

American Wire Fence Company, Chicago, Ill. Wire fencing. 278,501; Dec. 13. Class 13.

American Wringer Co., The, Providence, assignor to American Wringer Company, Inc., Woonsocket, R. I. Laundry articles. 36,101; renewed Mar. 19, 1931.

Anderson, James H., doing business as J. H. Anderson, Canton, N. C. Preparation for use in the treatment of piles. 278,407; Dec. 16; Serial No. 303,796; published Sept. 23, 1930. Class 6.

Anker-Werke A.-G., Bielefeld, Germany. Sewing machines and parts thereof. 278,354; Dec. 16; Serial No. 303,042; published Oct. 7, 1930. Class 23.

Art Linen Company, The, Holyoke, Mass. Toweling and woven fabrics of linen. 278,488; Dec. 16. Class 42.

Babcock, A. P., Company, New York, N. Y. Astringents, astringent cerates, bleach creams, etc. 278,426; Dec. 16; Serial No. 300,852; published Sept. 23, 1930. Class 6.

Bailey, Edward A., Manati, P. R. Fresh grapefruit. 278,467-8; Dec. 16; Serial Nos. 299,176-7; published Sept. 30, 1930. Class 46.

Bangor Slate Association Inc., Bangor, Pa. Roofing slate. 278,357; Dec. 16; Serial No. 302,525; published Sept. 30, 1930. Class 12.

Berger Manufacturing Company, The, Canton, assignor to Republic Steel Corporation, Youngstown, Ohio. Metallic plates. 80,300; renewed Dec. 6, 1930.

Bird, S. L., and Sons, Detroit, Mich. Shoes. 278,445; Dec. 16; Serial No. 300,779; published Sept. 23, 1930. Class 39.

Blac-Kat Medicine Company, Daytona Beach, Fla. Nerve and kidney tonic. 278,403; Dec. 16; Serial No. 303,874; published Sept. 30, 1930. Class 6.

Bleistift-Fabrik vorm. Johann Faber, A.-G., Nuremburg, Germany. Pencils, penholders, and erasing rubbers. 78,677; renewed July 5, 1930.

Bligh Milling Company, The, Seymour, Ind. Wheat flour. 80,638; renewed Jan. 17, 1931.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 278,471; Dec. 16; Serial No. 298,527; published Sept. 30, 1930. Class 42.

Böhme, H. Th., A. G., Chemnitz, Germany. Soaps and soap preparations. 278,336; Dec. 16; Serial No. 303,622; published Sept. 30, 1930. Class 4.

Böhme, H. Th., A. G., Chemnitz, Germany. Soaps and soap preparations. 278,337; Dec. 16; Serial No. 303,621; published Sept. 30, 1930. Class 4.

Bond Electric Corporation, Jersey City, N. J. Electric lanterns, electric flash lights, etc. 278,451; Dec. 16; Serial No. 291,961; published Jan. 14, 1930. Class 21.

Borgfeldt, Geo., & Co., assignor, by mesne assignments, to Lingner Corporation, New York, N. Y. Toothbrushes. 81,121; renewed Mar. 7, 1931.

Bornfeldt, John C., doing business as Budgeree Herb and Mineral Company, Los Angeles, Calif. Medicinal herbs, a medicinal mineral, and an organic mineral. 278,422; Dec. 16; Serial No. 301,239; published Sept. 16, 1930. Class 6.

Braselmann, Eugen, doing business as Ferd. Braselmann, Oberbauer, near Voerde, Germany. Stropping machines. 278,385; Dec. 16; Serial No. 295,420; published Oct. 7, 1930. Class 23.

Brown, Charles E., & Co., to Fred R. Brown, Springfield, Mass., successor. Coffee. 80,405; renewed Dec. 20, 1930.

Budgeree Herb and Mineral Company. (See Bornfeldt, John C.)

Bunte Brothers, Chicago, Ill. Candy. 278,345; Dec. 16; Serial No. 304,601; published Sept. 30, 1930. Class 46.

Burnside, Ambrose R., Providence, R. I. Maltless beverage and extract for making soft drinks. 278,380; Dec. 16; Serial No. 287,865; published Sept. 10, 1929. Class 45.

C. & N. Company. (See Long, Nellie E.)

California Co-Operative Producers, San Francisco, Calif. Canned fruits and vegetables, dried fruits, canned fruits for salad. 278,452; Dec. 16; Serial No. 290,448; published Oct. 7, 1930. Class 46.

Carr Milling Company, The, Hamilton, Ohio. Wheat flour. 80,828; renewed Feb. 7, 1931.

Carran, Grace B., doing business as Central Petroleum Company, Cleveland, Ohio. Oil for the protection of animals from flies, gnats, etc. 278,439; Dec. 16; Serial No. 304,450; published Sept. 23, 1930. Class 6.

Carrick, Sarah, Washington, D. C. Toilet preparations and cosmetics. 278,440; Dec. 16; Serial No. 288,062; published Sept. 30, 1930. Class 6.

Central Petroleum Company. (See Carran, Grace B.)

Certified Motor Rests, Inc., Boston, Mass. Guide books. 278,368; Dec. 16; Serial No. 304,093; published Sept. 30, 1930. Class 38.

Cervelli, Blanche, San Francisco, Calif. Liquid shampoo. 278,421; Dec. 16; Serial No. 301,333; published Sept. 30, 1930. Class 6.

Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Duck shower-bath curtains. 278,462; Dec. 16; Serial No. 283,782; published Sept. 30, 1930. Class 13.

Chicago Mill and Lumber Corporation, Chicago, Ill. Casket cases. 278,499; Dec. 16. Class 2.

Chippewa Falls Woolen Mill Company. (See Mandelert Mercantile Co., The.)

Cliff, A. B., doing business as Racing Teal Ranch, Pasadena and Thermal, Calif. Fresh citrus fruits, fresh dates, fresh grapes. 278,303; Dec. 16; Serial No. 305,035; published Oct. 7, 1930. Class 46.

Cluett, Peabody & Co., Inc., Troy, N. Y. Piece goods of cotton, linen, woolen, etc. 278,395; Dec. 16; Serial No. 304,678; published Sept. 30, 1930. Class 42.

Coe Laboratories, Inc., Chicago, Ill. Calcium preparation. 278,322; Dec. 16; Serial No. 304,681; published Oct. 7, 1930. Class 44.

Coe Laboratories, Inc., Chicago, Ill. Dentures. 278,323; Dec. 16; Serial No. 304,680; published Oct. 7, 1930. Class 44.

Cohen, Joseph H., doing business as The Perfection Motor Products Company, Bridgeport, Conn. Electric cigar lighters. 278,469; Dec. 16; Serial No. 299,046; published Sept. 30, 1930. Class 21.

Colgate-Palmolive-Peet Company, Chicago, Ill. Shampoo powder. 278,418; Dec. 16; Serial No. 303,160; published Sept. 16, 1930. Class 6.

Coty, Inc., Wilmington, Del., and New York, N. Y. Face and toilet powder. 278,420; Dec. 16; Serial No. 302,812; published Sept. 23, 1930. Class 6.

Cox, Russell S., Monroe, N. Y. Trellises and pergolas. 278,473; Dec. 16; Serial No. 297,411; published Sept. 30, 1930. Class 12.

Crak-Lax Mfg. Co. (See Errante, Paul P.)

Crepe-Kraft Company, Inc., The, Newark, N. J. Creped waterproof wrapping and lining paper. 278,364; Dec. 16; Serial No. 303,839; published Sept. 30, 1930. Class 37.

Crown Stove Works, Chicago, Ill. Ranges. 278,313; Dec. 16; Serial No. 303,166; published Sept. 30, 1930. Class 34.

Croydon Products, Inc., New York, N. Y. Lighters. 278,308; Dec. 16; Serial No. 304,607; published Sept. 30, 1930. Class 34.

Curtis Publishing Company, The, Camden, N. J., and Philadelphia, Pa., assignor, by mesne assignments, to The Curtis Publishing Company, Philadelphia, Pa. Monthly magazine. 35,321; renewed Oct. 30, 1930.

Daimler-Benz Aktiengesellschaft, Berlin, Germany. Engines, crank cases, cylinders, etc. 278,454; Dec. 16; Serial No. 288,587; published Oct. 7, 1930. Class 23.

David, Herman, doing business as R. Stern Co., Paterson, N. J. Shoes. 278,494; Dec. 16. Class 39.

Delpark, Inc., Newark, N. J. Dress shirts, negligee shirts, vests etc. 278,448; Dec. 16; Serial No. 300,406; published Sept. 23, 1930. Class 39.

Dick, A. B., Company. (See Fuller, Louis E., assignor.)

Dick, A. B., Company, assignor to A. B. Dick Company, Chicago, Ill. Stencil paper. 81,203; renewed Mar. 14, 1931.

Dick, A. B., Company, assignor to A. B. Dick Company, Chicago, Ill. Duplicating ink. 81,204; renewed Mar. 14, 1931.

Dick, A. B., Company, assignor to A. B. Dick Company, Chicago, Ill. Duplicating machines and parts thereof. 81,205; renewed Mar. 14, 1931.

Di Santo, Joseph, doing business as Di Santo & Co., Duluth, Minn. Laundry soap. 278,332; Dec. 16; Serial No. 303,842; published Sept. 30, 1930. Class 4.

Dix Products Company. (See Seale, Estelle M.)

Domestic Electric Company, The, Kent and Cleveland, Ohio. Air-purifying apparatus. 278,339; Dec. 16; Serial No. 303,320; published Oct. 7, 1930. Class 44.

Dow Chemical Company, The, Midland, Mich. Magnesium and magnesium-alloy castings and forgings. 278,461; Dec. 16; Serial No. 286,674; published July 29, 1930. Class 14.

Ducharne, F., Silk Co. Inc., New York, N. Y. Silk piece goods. 278,502; Dec. 16. Class 42.
Dunlap's California Sport Hats, Inc., assignor to Ross-Cordes, Ltd., Los Angeles, Calif. Ladies' hats. 278,498; Dec. 16. Class 39.
Dunn Sulphite Paper Co., Port Huron, Mich. Tissue paper. 278,378; Dec. 16; Serial No. 301,602; published Sept. 30, 1930. Class 37.
Dusenberg, T. Charles, Philadelphia, Pa. Candy. 80,408; renewed Dec. 27, 1930.
Eddy, C. Harold, doing business as Stain-Go Laboratories, Detroit, Mich. Preparation used for removing ink, iodine, grease, etc. 278,416; Dec. 16; Serial No. 303,430; published Oct. 7, 1930. Class 6.
Edelstein, Harry, doing business as The Kwik-Tox Chemical Co., Baltimore, Md. Insecticide and disinfectants. 278,484; Dec. 16. Class 6.
Edwards and Company, Inc., New York, N. Y. Electrical goods and apparatus. 278,381; Dec. 16; Serial No. 269,834; published Sept. 30, 1930. Class 21.
Edwards and Company, Inc., New York, N. Y. Electrical goods and apparatus. 278,382; Dec. 16; Serial No. 269,832; published Sept. 30, 1930. Class 21.
Electra Corporation, Chicago, Ill. Phonograph-record changers and repeaters. 278,400; Dec. 16; Serial No. 304,276; published Sept. 30, 1930. Class 36.
El-Sano Laboratories, Inc., Tacoma, Wash. General body tonic. 278,411; Dec. 16; Serial No. 303,566; published Oct. 7, 1930. Class 6.
Engineers Publishing Company. (See Shirk, Wesley H.)
Errante, Paul P., doing business as Crak-Lax Mfg. Co., Brooklyn, N. Y. Laxative. 278,404; Dec. 16; Serial No. 303,843; published Oct. 7, 1930. Class 6.
Eskimo Pie Corporation, Louisville, Ky. Candies and frozen confections. 278,312; Dec. 16; Serial No. 303,598; published Oct. 7, 1930. Class 46.
Eureka Color Film Company, Los Angeles, Calif. Colored motion-picture films. 278,463; Dec. 16; Serial No. 299,694; published Oct. 7, 1930. Class 26.
Faribault Canning Company, Faribault, Minn. Canned corn. 278,318; Dec. 16; Serial No. 301,426; published Sept. 30, 1930. Class 46.
Fernández, Bienvenido, Habana, Cuba. Perfumes, toilet essences, toilet lotions, etc. 278,444; Dec. 16; Serial No. 274,898; published Oct. 7, 1930. Class 6.
Fitler, Edwin H., Co., The, Philadelphia, Pa. Cordage, rope, and twine. 36,156; renewed Apr. 2, 1931.
Fixtpage Company, The, Des Moines, Iowa. Bookholder. 278,369; Dec. 16; Serial No. 304,192; published Sept. 30, 1930. Class 37.
Fleer, Frank H., Corporation, Philadelphia, Pa. Chewing gum. 278,305; Dec. 16; Serial No. 304,762; published Oct. 7, 1930. Class 46.
Fleer, Frank H., Corporation, Philadelphia, Pa. Chewing gum. 278,306; Dec. 16; Serial No. 304,761; published Oct. 7, 1930. Class 46.
Fletcher Coffee & Spice Co., Little Rock, Ark. Coffee. 81,601; renewed April 25, 1931.
Flood, Francis J., Corona, N. Y. Liquid soap. 278,335; Dec. 16; Serial No. 303,638; published Sept. 30, 1930. Class 4.
Florida Orange Dry Corporation, New York, N. Y. Maltless citrous beverage. 278,493; Dec. 16. Class 45.
Ford, J. B., Company, The, Wyandotte, Mich. Cleaning compound. 278,388; Dec. 16; Serial No. 295,071; published Sept. 30 1930. Class 4.
Foremost Fabrics Corporation, New York, N. Y. Silk piece goods. 278,486; Dec. 16. Class 42.
Forster, Charles, Dixfield and Strong, to Estate of Charles Forster, Strong, Me., successor. Wooden toothpicks. 35,356; renewed Oct. 30, 1930.
Forster, Charles, Dixfield and Strong, to Estate of Charles Forster, Strong, Me., successor. Wooden toothpicks. 35,328; renewed Oct. 30, 1930.
Forster, Charles, Dixfield and Strong, to Estate of Charles Forster, Strong, Me., successor. Wooden toothpicks. 35,456-7; renewed Nov. 20, 1930.
Fox Film Corporation, New York, N. Y. Motion pictures and films. 278,248; Dec. 16; Serial No. 303,765; published Oct. 7, 1930. Class 26.
French Battery Company, Madison, Wis. Dry-cell batteries. 278,306; Dec. 16; Serial No. 304,612; published Sept. 30, 1930. Class 21.
French Battery Company, Madison, Wis. Dry-cell batteries. 278,308; Dec. 16; Serial No. 304,550; published Sept. 30, 1930. Class 21.
Fried. Krupp Aktiengesellschaft, Essen, Germany. Plumbing, steam-fitting gas, and air valves and valve casings. 278,453; Dec. 16; Serial No. 288,997; published Sept. 30, 1930. Class 13.
Fuller, Louis E., New York, N. Y., assignor, by mesne assignments, to A. B. Dick Company, Chicago, Ill. Stencil paper and stencils. 80,310; renewed Dec. 6, 1930.
Geier P. A., Company, The, Cleveland, Ohio. Electrical vacuum cleaners. 278,281; Dec. 16; Serial No. 304,134; published Sept. 30, 1930. Class 21.
Geigy Company, Inc., New York, N. Y. Mixtures of tar, asphalt, gravel, etc. 278,390; Dec. 16; Serial No. 294,511; published Sept. 30, 1930. Class 12.
Georgia-Carolina Oil Company, Macon, Ga. Lubricating oils and greases. 278,280; Dec. 16; Serial No. 304,240; published Sept. 30, 1930. Class 15.
Gillette Safety Razor Company, Boston, Mass. Safety-razor blades. 278,301; Dec. 16; Serial No. 293,878; published Oct. 7, 1930. Class 23.
Granat, Joseph, doing business as Granat Bros., San Francisco, Calif. Bracelets. 278,292; Dec. 16; Serial No. 303,640; published Sept. 30, 1930. Class 28.
Granat, Joseph, doing business as Granat Bros., San Francisco, Calif. Finger rings. 278,294; Dec. 16; Serial No. 303,436; published Sept. 30, 1930. Class 28.
Griffin Manufacturing Company, Inc., New York, N. Y. Shoe polishes and cleaners and leather preservatives. 278,479; Dec. 16. Class 4.
Hall, Edgar A., jr., doing business as Michigan United Paper Company, Muskegon, Mich. Waterproof paper. 278,370; Dec. 16; Serial No. 304,286; published Sept. 30, 1930. Class 37.
Haller, Ray T., Fort Thomas, Ky. Vaginal douche powder. 278,428; Dec. 16; Serial No. 299,574; published Sept. 16, 1930. Class 6.
Haller, Ray T., Fort Thomas, Ky. Sedative and antispasmodic. 278,429; Dec. 16; Serial No. 299,573; published Sept. 16, 1930. Class 6.
Health-ee Taste-ee Products Company, River Forest, Ill. Potato salad, ham, sausage, etc. 278,497; Dec. 16. Class 46.
Hello World Broadcasting Corp., Shreveport, La. Paper bags. 278,449; Dec. 16; Serial No. 300,129; published Sept. 30, 1930. Class 2.
Herzog, J. Lawrence, Rockford, Ill. Newspaper articles. 278,379; Dec. 16; Serial No. 303,001; published Sept. 30, 1930. Class 38.
Hille Laboratories Incorporated, Chicago, Ill. Colloidal silver-chloride compound, mercury sulphide, and mercury copper sulphide. 278,425; Dec. 16; Serial No. 283,683; published Sept. 30, 1930. Class 6.
Holden-Leonard Company, New York, N. Y. Worsted and woolen fabrics. 278,287-8; Dec. 16; Serial Nos. 304,817-18; published Sept. 30, 1930. Class 42.
Honey Chewing Gum Co., The, Chicago, Ill. Chewing gum. 278,314; Dec. 16; Serial No. 303,113; published Oct. 7, 1930. Class 46.
Hopkins, Ferd. T., doing business as D. Watson & Co., New York, N. Y. Shampooing preparation. 278,402; Dec. 16; Serial No. 303,888; published Oct. 7, 1930. Class 6.
Hopner, Edna Wallace, Inc., Chicago, Ill. Lip sticks. 278,410; Dec. 16; Serial No. 303,568; published Sept. 23, 1930. Class 6.
Howard Publications, Inc., New York, N. Y. Periodical. 278,366; Dec. 16; Serial No. 303,965; published Sept. 30, 1930. Class 38.
Howell, G. C., Fulton, Ky. Salted peanuts. 278,307; Dec. 16; Serial No. 304,661; published Oct. 7, 1930. Class 46.
Huntington, Levin B., Baltimore, Md. Artificial bait. 278,294; Dec. 16; Serial No. 304,688; published Sept. 30, 1930. Class 22.
Hygiene Products Limited, Montreal, Canada. Disinfectants and insecticides. 278,413; Dec. 16; Serial No. 303,507; published Sept. 16, 1930. Class 6.
Ichthyol Co., The, Rahway, N. J. Medicinal solution and pharmaceutical preparation. 278,443; Dec. 16; Serial No. 285,155; published Nov. 19, 1929. Class 6.
Independent Druggists' Alliance Distributing Co., Chicago, Ill. Surgical adhesive tape and bandages. 278,330; Dec. 16; Serial No. 303,903; published Oct. 7, 1930. Class 44.
Independent Druggists' Alliance Distributing Co., Chicago, Ill. Silver polish and shaving cream. 278,331; Dec. 16; Serial No. 303,890; published Oct. 7, 1930. Class 4.
Independent Druggists' Alliance Distributing Co., Chicago, Ill. Stationery. 278,365; Dec. 16; Serial No. 303,900; published Sept. 30, 1930. Class 37.
Independent Druggists' Alliance Distributing Co., Chicago, Ill. Cold cream, cough medicine, Epsom salts, etc. 278,401; Dec. 16; Serial No. 303,892; published Sept. 30, 1930. Class 6.
Ingram Richardson Corporation, Bayonne, N. J. Tables. 278,361; Dec. 16; Serial No. 303,644; published Oct. 7, 1930. Class 32.
International Millinery Co. Inc., New York, N. Y. Hats. 278,374; Dec. 16; Serial No. 301,654; published Sept. 30, 1930. Class 39.
International Shoe Co., St. Louis, Mo. Boots and shoes. 278,398; Dec. 16; Serial No. 304,145; published Sept. 23, 1930. Class 39.
Italy Laboratories. (See Martino, Antonino R.)
Jarrett, Edgar E., New Rochelle, N. Y. Complete portable archery ranges, bows, arrows, and targets. 278,291; Dec. 16; Serial No. 303,747; published Sept. 30, 1930. Class 22.
Jesco Lubricants Co., North Kansas City, Mo. Lubricating oils and greases. 278,293; Dec. 16; Serial No. 303,443; published Sept. 30 1930. Class 15.
Jesson, William, & Sons, Limited, Sheffield, England. Metal castings and forgings. 79,060; renewed Aug. 2, 1930.
Jesson, William, & Sons, Limited, Sheffield, England. Metal castings and forgings. 79,585; renewed Sept. 20, 1930.
Johnson Products Company. (See Tyson & Company, Inc.)
Jones, Iliff, doing business as Iliff Jones Company, Pittsburgh, Pa. Shaving cream and soap. 278,333; Dec. 16; Serial No. 303,748; published Oct. 7, 1930. Class 4.
Jones, Thomas H., doing business as Lacto Pharmacal Laboratories, Brooklyn, N. Y. Granular effervescent salt. 278,496; Dec. 16. Class 1.

Kattelmann, Luvenie M., St. Louis, Mo. Skin creams. 278,431; Dec. 16; Serial No. 295,263; published Sept. 16, 1930. Class 6.
Kemp, Edward F., Somerville, Mass. Paper bags. 278,456-7; Dec. 16; Serial Nos. 288,196-7; published Sept. 30, 1930. Class 2.
Kemp, Edward F., Somerville, Mass. Paper bags. 278,458-9; Dec. 16; Serial Nos. 288,192-3; published Sept. 30, 1930. Class 2.
Kiel Furniture Co., The, Milwaukee, Wis. Radio apparatus. 278,290; Dec. 16; Serial No. 303,907; published Sept. 30, 1930. Class 21.
King, Elise W., Lynchburg, Va. Preparation for the treatment of poison oak. 278,436; Dec. 16; Serial No. 304,562; published Sept. 30, 1930. Class 6.
King, Washington W., Bronson, Tex. Chili. 278,319; Dec. 16; Serial No. 301,270; published Oct. 7, 1930. Class 46.
Klaxon Company, The. (See Lovell-McConnell Manufacturing Company, assignor.)
Kolo Springs Products Co., Orange, Calif. Medicinal preparation. 278,415; Dec. 16; Serial No. 303,445; published Sept. 23, 1930. Class 6.
Kopf Mfg. Co., Inc., New York, N. Y. Elastic bandages for horses. 278,329; Dec. 16; Serial No. 304,053; published Oct. 7, 1930. Class 44.
Kuhnert, F. A., Shoe Corp., Rochester, N. Y. Shoes. 278,480; Dec. 16. Class 39.
Kwik-Tox Chemical Co., The. (See Edelstein, Harry.)
Lacto Pharmacal Laboratories. (See Jones, Thomas H.)
Lansburgh & Bro., Washington, D. C. Overcoats, coats, raincoats, etc. 278,375; Dec. 16; Serial No. 302,950; published Sept. 23, 1930. Class 39.
Lawless, Archibald B., Asbury Park, N. J. Maltless beverage. 278,491; Dec. 16. Class 45.
Lee Laboratories Incorporated, Cambridge, Mass. Laxative effervescent salt. 278,432; Dec. 16; Serial No. 304,871; published Oct. 7, 1930. Class 6.
Le Rae Hat Co., St. Louis, Mo. Headwear. 278,386; Dec. 16; Serial No. 295,378; published Sept. 23, 1930. Class 39.
Lingner Corporation. (See Borgfeldt, Geo., & Co., assignor.)
Lion Oil Refining Company, El Dorado, Ark. Petroleum asphalt. 278,347; Dec. 16; Serial No. 304,010; published Sept. 30, 1930. Class 12.
Llewellyn, Frank, doing business as Panatelle Laboratories, Hollywood, Calif. Weight-reducing extractive. 278,437; Dec. 16; Serial No. 304,504; published Sept. 23, 1930. Class 6.
Long, Nellie E., doing business as C. & N. Company, Detroit, Mich. Medicinal preparations. 278,417; Dec. 16; Serial No. 303,332; published Sept. 16, 1390. Class 6.
Longsign Corporation, The, Dayton, Ohio. Electric signs. 278,399; Dec. 16; Serial No. 304,467; published Sept. 30, 1930. Class 21.
Lovell-McConnell Manufacturing Company, Newark, N. J., assignor to The Klaxon Company, Anderson, Ind. Electrically-operated signal horns and alarms. 80,789-90; renewed Jan. 31, 1931.
Lugene Inc., New York, N. Y. Lorgnettes, eyeglasses, spectacles, etc. 278,340-1; Dec. 16; Serial Nos. 305,139-40; published Oct. 7, 1930. Class 26.
Lux-Visel Company, Elkhart, Ind. Electrical portable water heaters. 278,297; Dec. 16; Serial No. 303,061; published Sept. 30, 1930. Class 21.
Mandelert Mercantile Co., The, by change of name to Chippewa Falls Woolen Mill Company, Chippewa Falls, Wis. Clothing. 73,596; renewed May 4, 1929.
Mandelert Mercantile Co., The, by change of name to Chippewa Falls Woolen Mill Company, Chippewa Falls, Wis. Blankets, flannels, and woolen piece goods. 73,896; renewed June 1, 1929.
Marcel Franck, Inc., New York, N. Y. Perfume and medicinal atomizers. 278,334; Dec. 16; Serial No. 303,743; published Oct. 7, 1930. Class 44.
Martino, Antonino R., doing business as Italy Laboratories, New York, N. Y. Shampoos, hair tonics, cold creams, etc. 278,406; Dec. 16; Serial No. 303,817; published Oct. 7, 1930. Class 6.
May Department Stores Company, The, St. Louis, Mo. Toilet preparations. 278,427; Dec. 16; Serial No. 299,787; published Oct. 7, 1930. Class 6.
Mayer & Schmidt, Schleifmaschinen & Schmiergelwerke, A. G., Offenbach-on-the-Main, Germany. Silicon carbide for use as abrasives. 278,446; Dec. 16; Serial No. 300,731; published Sept. 30, 1930. Class 4.
McLaurin-Jones Co., Brookfield, Mass. Coated papers. 278,474; Dec. 16; Serial No. 296,230; published Sept. 30, 1930. Class 37.
McNab, Alexander, Bridgeport, Conn. Marine instruments. 278,299; Dec. 16; Serial No. 301,979; published Oct. 7, 1930. Class 26.
Menasco Motors, Inc., Los Angeles, Calif. Gasoline internal-combustion engines. 278,358; Dec. 16; Serial No. 302,441; published Oct. 7, 1930. Class 23.
Michigan United Paper Company. (See Hall, Edgar A., jr.)
Mid-City Beverage Company, Chicago, Ill. Malt cereal beverage. 278,490; Dec. 16. Class 48.
Milberg & Milberg, New York, N. Y. Women's lingerie. 278,478; Dec. 16. Class 39.
Milgrim Hats, Inc., New York, N. Y. Women's hats. 278,376; Dec. 16; Serial No. 303,241; published Sept. 23, 1930. Class 39.
Monitor Boiler Company, Philadelphia, Pa. Steel heating boilers and water heaters using coal or oil as fuel. 278,447; Dec. 16; Serial No. 300,580; published Sept. 30, 1930. Class 34.
Montag Bros. Inc., Atlanta, Ga. Writing paper and envelopes. 278,371; Dec. 16; Serial No. 304,566; published Sept. 30, 1930. Class 37.
Montag Bros. Inc., Atlanta, Ga. Writing paper and envelopes. 278,373; Dec. 16; Serial No. 304,692; published Sept. 30, 1930. Class 37.
Morrell, George, Corporation, Muskegon Heights, Mich. Buttons and beads. 278,384; Dec. 16; Serial No. 299,584; published Sept. 23, 1930. Class 40.
Nakashima, K., Stockton, Calif. Medicines. 278,414; Dec. 16; Serial No. 303,484; published Oct. 7, 1930. Class 6.
Nashua Manufacturing Company, Nashua, N. H., and Boston, Mass. Sheets and pillowcases. 278,286; Dec. 16; Serial No. 304,824; published Sept. 30, 1930. Class 42.
National Veneer Package Company, St. Louis, Mo. Wooden panels for cabinetwork. 278,350; Dec. 16; Serial No. 303,648; published Sept. 30, 1930. Class 12.
Negro World Publishing Co. Inc., The, New York, N. Y. Newspaper. 278,363; Dec. 16; Serial No. 303,339; published Sept. 30, 1930. Class 38.
Nestle-Le Mur Company, The, New York, N. Y. Toilet preparations, preparations for use in the treatment of the hair, and cosmetics. 278,489; Dec. 16. Class 6.
Newark Products Co. (See Shapiro, Morris.)
Newbry & Sons, Talent, Oreg. Fresh deciduous fruits. 278,320; Dec. 16; Serial No. 305,053; published Oct. 7, 1930. Class 46.
New York Boat Oar Company, Inc., New York, N. Y. Boat oars and paddles. 278,315; Dec. 16; Serial No. 302,789; published Sept. 30, 1930. Class 19.
Nix Produce Company, The, Hastings, Fla. Potatoes. 278,349; Dec. 16; Serial No. 303,751; published Sept. 30, 1930. Class 46.
No-Ring Corporation, New York, N. Y. Dry-cleaning fluid and powder. 278,325; Dec. 16; Serial No. 304,293; published Oct. 7, 1930. Class 4.
Ohio Coupon Company, The, Zanesville, Ohio. Blank book. 278,360; Dec. 16; Serial No. 303,203; published Sept. 30, 1930. Class 37.
Oxyborate Co., Inc., Buffalo, N. Y. Antacid tablets. 278,434; Dec. 16; Serial No. 304,827; published Oct. 7, 1930. Class 6.
Panatelle Laboratories. (See Llewellyn, Frank.)
Paper Mills' Company, The, Chicago, Ill. Printing paper and envelopes made therefrom. 278,470; Dec. 16; Serial No. 298,954; published Sept. 30, 1930. Class 37.
Pat Bags, Incorporated, Richmond, Va. Bags. 278,466; Dec. 16; Serial No. 299,224; published Sept. 30, 1930. Class 2.
Peerless Motor Car Corporation, Cleveland, Ohio. Automobiles and structural parts thereof. 278,317; Dec. 16; Serial No. 302,185; published Sept. 30, 1930. Class 19.
Perfection Motor Products Company, The. (See Cohen, Joseph H.)
Person, Beverly M., doing business as Townsfolk Company, Chicago, Ill. Periodical. 278,475; Dec. 16; Serial No. 296,143; published Sept. 30, 1930. Class 38.
Petrosemolo, Eugene J., New York, N. Y. Maltless beverages. 278,485; Dec. 16. Class 45.
Popular Games, Inc., Chicago, Ill. Golf balls and clubs. 278,460; Dec. 16; Serial No. 288,146; published Sept. 30, 1930. Class 22.
Porcelain Products, Inc., Findlay, Ohio. Assembled insulating knobs. 278,282; Dec. 16; Serial No. 304,065; published Sept. 30, 1930. Class 21.
Quigley Furnace Specialties Company, Inc., New York, N. Y. Plastic expansive-joint-sealing compound. 278,353; Dec. 16; Serial No. 303,209; published Sept. 30, 1930. Class 12.
R-B Pharmacal Co. Inc., Tampa, Fla. Medicine. 278,408; Dec. 16; Serial No. 303,726; published Oct. 7, 1930. Class 6.
Racing Teal Ranch. (See Cliff, A. B.)
Randolph Movie Company, Inc., Chicago, Ill. Films. 278,476; Dec. 16; Serial No. 296,080; published Sept. 9, 1930. Class 26.
Rau Fastener Company, Providence, R. I. Pronged retaining pins. 278,487; Dec. 16. Class 16.
Redbrook Tinplate Co. Limited, The, London, to The Redbrook Tinplate Company, Limited, Pontnewydd, Newport, England. Tin, terne, zinc, and black plates. 81,548; renewed Apr. 18, 1931.
Red Star Music Company, Inc., New York, N. Y. Sheet music, orchestral arrangements therefor, and bound volumes of same. 278,367; Dec. 16; Serial No. 304,067; published Sept. 30, 1930. Class 38.
Reichart, Clara, Rochester, N. Y. Hair powder. 278,430; Dec. 16; Serial No. 298,715; published Sept. 16, 1930. Class 6.
Republic Steel Corporation. (See Berger Manufacturing Company, The, assignor.)
Rescigno, Pietro, Roselle Park, N. J. Canned tripe with tomato sauce, canned squid, canned shrimp, etc., with tomato sauce. 278,359; Dec. 16; Serial No. 302,027; published Sept. 30, 1930. Class 46.
Rinehart, Ira, Tulsa, Okla., and Fort Worth, Tex. Reports issued daily. 278,361; Dec. 16; Serial No. 303,301; published Sept. 30, 1930. Class 38.

Rinehart, Ira, Tulsa, Okla., and Fort Worth, Tex. News sheets. 278,362; Dec. 16; Serial No. 303,302; published Sept. 30, 1930. Class 38.
Rocky Mountain Packing Corporation, Salt Lake City, Utah. Canned fruits, canned vegetables, and sauerkraut. 278,316; Dec. 16; Serial No. 302,479; published Sept. 30, 1930. Class 46.
Rorer, William H., Inc., Philadelphia, Pa. Tablet for the treatment of anemia, etc. 278,500; Dec. 16. Class 6.
Ross-Cordes Ltd. (See Dunlap's California Sport Hats, Inc., assignor.)
Rossman Brothers & Messner, Inc., New York, N. Y. Cotton goods, cotton and silk goods, and artificial-silk goods in the piece. 278,279; Dec. 16; Serial No. 304,252; published Sept. 30, 1930. Class 42.
Rubin, Herman, Bronx, N. Y. Shoes. 278,327; Dec. 16; Serial No. 304,163; published Sept. 23, 1930. Class 39.
Russell Manufacturing Company, The, Middletown, Conn. Brake linings. 278,342; Dec. 16; Serial No. 305,090; published Oct. 7, 1930. Class 35.
Scholl Mfg. Co. Inc., The, Chicago, Ill. Adhesive medicated shields or pads for corns. 278,423; Dec. 16; Serial No. 304,110; published Sept. 16, 1930. Class 6.
Seale, Estelle M., doing business as Dix Products Company, Cincinnati, Ohio. Waterless cleanser. 278,455; Dec. 16; Serial No. 288,356; published Oct. 7, 1930. Class 4.
Sears, Roebuck and Co., Chicago, Ill. Garden hose. 278,481–3; Dec. 16. Class 35.
Sears, Roebuck and Co., Chicago, Ill. Shoes. 278,492; Dec. 16. Class 39.
Shapiro, Morris, doing business as Newark Products Co., Newark, N. J. Steel-wool pads and holders therefor. 278,324; Dec. 16; Serial No. 304,431; published Sept. 30, 1930. Class 4.
Sharp & Dohme, Incorporated, Baltimore, Md. Germicidal substance. 278,435; Dec. 16; Serial No. 304586; published Sept. 23, 1930. Class 6.
Sheetpaint Products Corporation, New York, N. Y. Paper to be used as wall coverings and window shades. 278,372; Dec. 16; Serial No. 304,587; published Sept. 30, 1930. Class 37.
Shelton, W. G., Company, St. Louis, Mo. Liquid compound for use in permanent waving of the human hair. 278,419; Dec. 16; Serial No. 303,126; published Sept. 30, 1930. Class 6.
Sherwood Shoe Company, Rochester, N. Y. Women's shoes. 278,326; Dec. 16; Serial No. 304,254; published Sept. 23, 1930. Class 39.
Shirk, Wesley H., doing business as Engineers Publishing Company, Philadelphia, Pa. Printed charts and data sheets. 278,377; Dec. 16; Serial No. 301,229; published Sept. 30, 1930. Class 38.
Smith, Kline & French Company, assignor to Smith, Kline & French Laboratories, Philadelphia, Pa. Dentifrices and remedies for certain diseases. 80,683; renewed Jan. 17, 1931.
Smith, Kline & French Company, assignor to Smith, Kline & French Laboratories, Philadelphia, Pa. Root-beer extract. 80,741; renewed Jan. 24, 1931.
Smith, Martin H., Co., New York, N. Y. Medicines. 35,974; renewed Feb. 26, 1931.
Snoko Inc., San Francisco, Calif. Ice-shaving machines. 278,450; Dec. 16; Serial No. 299,868; published Oct. 7, 1930. Class 23.
Société de la Viscose Suisse, Emmenbrucke, Switzerland. Thread, yarns, and filaments of artificial silk. 278,283; Dec. 16; Serial No. 304,893; published Sept. 30, 1930. Class 43.
Société de la Viscose Suisse, Emmenbrucke, Switzerland. Textile fibres of all kinds, artificial straw, horsehair, etc. 278,284; Dec. 16; Serial No. 304,892; published Sept. 30, 1930. Class 43.
Société de la Viscose Suisse, Emmenbrucke, Switzerland. Threads, yarns, and filaments. 278,285; Dec. 16; Serial No. 304,891; published Sept. 30, 1930. Class 43.
Société des Usines Chimiques Rhone-Poulenc, Paris, France. Vitamin medicinal product. 278,442; Dec. 16; Serial No. 285,232; published Oct. 7, 1930. Class 6.
Somers, Alice, doing business as Somer's Chemical Company, North Georgetown, Ohio. Salve. 278,495; Dec. 16. Class 6.
Sonoco Products Company, Hartsville, S. C. Paper tubes and cones. 278,311; Dec. 16; Serial No. 304,017; published Sept. 30, 1930. Class 2.
Spencer, George, Moulton & Company, Limited, London, England. India-rubber buffing and draw springs and bearing springs, and bearing blocks for railway vehicles. 278,388; Dec. 16; Serial No. 295,766; published Sept. 30, 1930. Class 19.
Stain-Go Laboratories. (See Eddy, C. Harold.)
Star Expansion Bolt Company, New York, N. Y. Certain electrical supplies. 80,684; renewed Jan. 17, 1931.
Stentz, E. Faye, doing business as Vegetone Company, Buffalo, N. Y. Blood purifier, tonic, and alterative. 278,405; Dec. 16; Serial No. 303,825; published Sept. 30, 1930. Class 6.
Stern, R., Co. (See David, Herman.)
Stern, Sol G., Brooklyn, N. Y. Musical instruments and supplies. 278,464; Dec. 16; Serial No. 299,471; published Sept. 30, 1930. Class 36.
Strauss, Philip, Nanticoke, Pa. Mattresses, box springs, and pillows. 278,300; Dec. 16; Serial No. 301,215; published Oct. 7, 1930. Class 32.
Sturtevant, A. J., Fresno, Calif. Fresh grapes. 278,302; Dec. 16; Serial No. 305,057; published Oct. 7, 1930. Class 46.
Tanqueray, Gordon Co. Limited, London, England. Gin. 35,465; renewed Nov. 20, 1930.
Textile Specialty Co., Inc., Greensboro, N. C. Loom reeds. 278,346; Dec. 16; Serial No. 304,022; published Oct. 7, 1930. Class 23.
Townsfolk Company. (See Person, Beverly M.)
Tribuna-Magri Co., Boston, Mass. Fresh fish. 278,355; Dec. 16; Serial No. 303,038; published Sept. 30, 1930. Class 46.
Tropical Vitamin Co., Inc., The, Orlando, Fla. Candy confection. 278,304; Dec. 16; Serial No. 305,005; published Oct. 7, 1930. Class 46.
Tyson & Company Inc., doing business as Johnson Products Company, Paris, Tenn. Washing tablets. 278,321; Dec. 16; Serial No. 304,837; published Oct. 7, 1930. Class 4.
United Engineering & Foundry Company, Pittsburgh, Pa. Pamphlets. 278,389; Dec. 16; Serial No. 294,547; published Sept. 30, 1930. Class 38.
United States Envelope Company, Springfield, Mass. Merchandise envelopes. 278,477; Dec. 16. Class 2.
United States Rubber Company, New York, N. Y. Electrical conductors. 278,295; Dec. 16; Serial No. 303,354; published Sept. 30, 1930. Class 21.
Universal Armature Corporation, Cambridge, Mass. Armatures and armature parts. 278,397; Dec. 16; Serial No. 304,592; published Sept. 30, 1930. Class 21.
Valley Shoe Corporation, St. Louis, Mo. Footwear. 278,338; Dec. 16; Serial No. 303,497; published Sept. 23, 1930. Class 39.
Vegetone Company. (See Stentz, E. Faye.)
Venice Celery Distributors, Los Angeles, Calif. Fresh vegetables. 278,301; Dec. 16; Serial No. 305,062; published Oct. 7, 1930. Class 46.
Visking Corporation, The, Chicago, Ill. Sausage casings. 278,352; Dec. 16; Serial No. 303,410; published Sept. 30, 1930. Class 46.
Visking Corporation, The, Chicago, Ill. Sausage casings. 278,356; Dec. 16; Serial No. 302,707; published Sept. 30, 1930. Class 46.
Vondenbosh, Frederick J., Los Angeles, Calif. Radio grounds, aerials, selective radio aerials, etc. 278,298; Dec. 16; Serial No. 303,016; published Sept. 30, 1930. Class 21.
Warnesson, Alice, doing business as Prof. J. Warnesson, Chicago, Ill. Lip rouge. 278,438; Dec. 16; Serial No. 304,478; published Oct. 7, 1930. Class 6.
Watson, D., & Co. (See Hopkins, Ferd. T.)
Weber Machine Corporation, Rochester, N. Y. Phonograph-disc turntables. 278,387; Dec. 16; Serial No. 295,284; published Sept. 30, 1930. Class 36.
Western Land Roller Company, Hastings, Nebr. Feed grinders. 278,343; Dec. 16; Serial No. 304,985; published Oct. 7, 1930. Class 23.
Western Precipitation Company, Los Angeles, Calif. Apparatus for subjecting gases to centrifugal action. 278,465; Dec. 16; Serial No. 299,294; published Oct. 7, 1930. Class 23.
White Star Refining Company, Detroit, Mich. Gasoline, naphtha, kerosene, etc. 278,296; Dec. 16; Serial No. 303,233; published Sept. 30, 1930. Class 15.
Williams, J. W., doing business as J. W. Williams Med. Co., Henderson, Tex. Medical preparations. 278,409; Dec. 16; Serial No. 303,587; published Sept. 30, 1930. Class 6.
Wolf, H., & Sons, to H. Wolf & Sons, Inc., Cincinnati, Ohio, successor. Hosiery, undershirts, drawers, and union suits. 79,710; renewed Sept. 27, 1930.
Württembergische Metallwarenfabrik, Geislingen-Steige, Germany. Base-metal knives, forks, basters, etc. 278,472; Dec. 16; Serial No. 297,462; published Oct. 7, 1930. Class 23.
Youngstown Sheet & Tube Company, The, Youngstown, Ohio. Metal pipe and tubing. 278,309; Dec. 16; Serial No. 304,481; published Sept. 30, 1930. Class 13.
Zuckerman, Joseph, Calexico, Calif. Tooth paste. 278,424; Dec. 16; Serial No. 304,443; published Sept. 23, 1930. Class 6.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS

Arcturus Radio Tube Company, Newark, N. J. Arcturus Radio Tubes. For Radiotubes. 38,373; Dec. 16.
Burda, S. W., doing business as Nervaspa, Inc., assignor to Nervaspa, Inc., Chicago, Ill. Nervaspa Headache Tablets. For Headache Tablets. 38,374; Dec. 16.
Carroon & Co. Inc., Fowler, Ind. Carroon. For Tomatoes. 38,375; Dec. 16.
Central Waxed Paper Company, Chicago, Ill. Dinner Belle. For Bread. 38,376; Dec. 16.
Champion Fibre Company, The, Canton, N. C. Carolina Cleanser. For Cleanser. 38,377; Dec. 16.
Cortina, Antonio, Chicago, Ill. Antonio Cortino. For Cigars. 38,378; Dec. 16.

Dubin, Henry, doing business as Sof Products Co., Chicago, Ill. Sofwash. For Washing Crystals. 38,379; Dec. 16.
Earl Fruit Company, Wenatchee, Wash. Blue Flag. For Evaporated Prunes. 38,380; Dec. 16.
Gocken Cake Co., Alton, Ill. Dainty-Lee. For Cakes. 38,381; Dec. 16.
Hansley Mills, New York, N. Y. Hansley Guaranteed. For Athletic Underwear. 38,382; Dec. 16.
Koch & Bolliger, Peoria, Ill. Creve Coeur Brand. For Eggs. 38,383; Dec. 16.
Lantz Bros. Baking Co., St. Louis, Mo. Grandma's Honey Crisp Potato Chips. For Potato Chips. 38,384; Dec. 16.
Menasha Products Company, The, Chicago, Ill. Golden Star. For Butter. 38,385; Dec. 16.
Midway Chemical Company, Chicago, Ill. Radiant Toilet Cleaner. For a Preparation for Cleaning Toilet Bowls. 38,386; Dec. 16.
Nervaspa, Inc. (See Burda, S. W., assignor.)
Sof Products Co. (See Dubin, Henry.)
Standard Brands Incorporated, New York, N. Y. Royal. For Baking Powder. 38,387; Dec. 16.
Standard Brands Incorporated, New York, N. Y. Royal. For Baking Powder. 38,388; Dec. 16.
Standard Brands Incorporated, New York, N. Y. Royal. For Gelatin Dessert. 38,389; Dec. 16.
Sun-Ra Products Company, St. Joseph, Mo. Sun-Ra. For Barbecue Sauce. 38,390; Dec. 16.
Van Camp Sea Food Co. Inc., Terminal Island, Calif. Chicken Of The Sea. For Canned Tuna Fish. 38,391; Dec. 16.
Walker Webbing Company, Inc., Fall River, Mass. Color Harmony Guide. For Bias-Fold Tape. 38,392; Dec. 16.
Zilberbrand, Zoli M., Chicago, Ill. Milbrand. For Sausage. 38,393; Dec. 16.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS

Black, Starr & Frost-Gorham, Inc., New York, N. Y. Original Creations by Black, Starr & Frost-Gorham, Inc. For Jewelled Hairpins. 12,856; Dec. 16.
Cream of Wheat Corporation, The, Minneapolis, Minn. A Drowsy Old Louisiana Plantation and a Very Alert Small Boy Alfred Olivier Hero, Jr. For Wheat Breakfast Food. 12,857; Dec. 16.
Electric Storage Battery Company, The, Philadelphia, Pa. When It's an Exide You Start. For Storage Batteries. 12,858; Dec. 16.
Fishlove, Irving H., doing business as H. Fishlove Company, Chicago, Ill. Everybody's Ash Receiver. For Novelty Ash Trays. 12,859; Dec. 16.
Gruen Watch Company, The, Cincinnati, Ohio. Gruen Timekeeping Baguette. For Watches. 12,860; Dec. 16.
Kendall Company, The, Chicago, Ill. Essential Apparel for Every Sport. For Athletic Supporters and Suspensories. 12,861; Dec. 16.
Kennedy, W. J., Dairy Co., Detroit, Mich. W. J. Kennedy Dairy Co. For Milk. 12,862; Dec. 16.
Lexington Concrete Products Company, Lexington, Ky. Lexco. For Concrete Blocks. 12,863; Dec. 16.
Montgomery, V. E., Company, The, Cincinnati, Ohio. Red Flash Coke. For Coke. 12,864; Dec. 16.
Williams, J. B., Company, The, Glastonbury, Conn. Williams Rayex. For Tonic for Scalp and Hair. 12,865; Dec. 16.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Adipin Company. (See Coles, Howard B.)
Aktiebolaget Mavello. (See Fredriksson, Stafs A. E., assignor.)
American Electro-Chemical Co., Minneapolis, Minn. Storage batteries. 305,558; Dec. 16. Class 21.
Apex Products Corporation, Chicago, Ill. Insecticide. 303,680; Dec. 16. Class 6.
Apex Products Corporation, Chicago, Ill. Chemically-treated polishing cloth. 304,031; Dec. 16. Class 4.
Associated French Artists, Inc., New York, N. Y. Designs, drawings, etc. 305,385; Dec. 16. Class 38.
Associated Sales Company, Chicago, Ill. Lubricating oils and greases. 304,597; Dec. 16. Class 15.
Balsa Wood Company, Inc., The, New York, N. Y. Balsa wood. 215,478; Dec. 16. Class 12.
Baron, H., & Co. Inc., New York and Brooklyn, N. Y. Bottled fruits and fruit syrups and a chocolate specialty. 305,066; Dec. 16. Class 46.
Beatrice Creamery Company, Chicago, Ill. Butter. 305,027; Dec. 16. Class 46.
Belknap Hardware & Manufacturing Company, Louisville, Ky. Pneumatice tires and inner tubes. 307,695; Dec. 16. Class 35.
Belton Bottling Co., Belton, S. C. Maltless beverages. 305,476; Dec. 16. Class 45.
Biotherm Company, The, Los Angeles, Calif. Electrically-heated garments used for therapeutic purposes. 306,516; Dec. 16. Class 44.
Birmingham Wholesale Corporation, Inc., Birmingham, Ala. Garters and necktles. 255,222; Dec 16. Class 39.
Bloom, Philip S., Co., Chicago, Ill. Panties, underdrawers, etc. 305,098; Dec. 16. Class 39.
Bonita Company, The, Fond du Lac, Wis. Candy 305,846; Dec. 16. Class 46.
Botsford, Albert E., Walla Walla, Wash. Seeders, drills and weeders. 300,780; Dec. 16. Class 23.
Brandle & Smith Co., Philadelphia, Pa. Candy. 307,088; Dec. 16. Class 46.
Bretzfield, Walter G., doing business as Walter G. Bretzfield Company, New York, N. Y. Textile fabrics. 305,651; Dec. 16. Class 42.
Burford Oil Company, The, Pecos, Tex. Gasoline, kerosene, lubricating oils and greases, and illuminating oil. 301,155; Dec. 16. Class 15.
Burlington Venetian Blind Co., Burlington, Vt. Venetian blinds. 297,582; Dec. 16. Class 32.
California Packing Corporation, San Francisco, Calif. Baking powder and salt. 307,253; Dec. 16. Class 6.
California Packing Corporation, San Francisco, Calif. Baking powder and salt. 307,258; Dec. 16. Class 6.
California Packing Corporation, San Francisco, Calif. Baking powder and salt. 307,260; Dec. 16. Class 6.
California Packing Corporation, San Francisco, Calif. Baking powder and salt. 307,263; Dec. 16. Class 6.
Cam Manufacturing Co. (See Meussdorffer, Conrad P.)
Capital City Products Company, The, Columbus, Ohio. Refined vegetable oil. 306,033; Dec. 16. Class 46.
Celanese Corporation of America, New York, N. Y. Fabrics. 307,617; Dec. 16. Class 42.
Celanese Corporation of America, New York, N. Y. Yarns or threads. 307,618; Dec. 16. Class 43.
Celanese Corporation of America, New York, N. Y. Fabrics. 307,701; Dec. 16. Class 42.
Certain-teed Products Corporation, New York, N. Y. Protective siding for buildings, and walls, etc., to simulate brickwork. 305,655; Dec. 16. Class 12.
Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Closet screws for toilet bowls, sink plugs, supply pipes, etc. 307,307; Dec. 16. Class 13.
Chem. Fabrikationsgesellschaft Beitropa, m. b. H., Charlottenburg, Berlin, Germany. Preparation for treating the hair and preparation for treating burns. 307,799; Dec. 16. Class 6.
Cheney Brothers, South Manchester, Conn. Pictorial publications. 307,583; Dec. 16. Class 38.
Childs, Jeffries & Co., Incorporated, Boston, Mass. Publications and reports. 290,820; Dec. 16. Class 38.
Christie, Henderson W., doing business as The Golf-Nac Company, Butler, Pa. Golf balls, golf clubs, golf bags, etc. 306,343; Dec. 16. Class 22.
Cincinnati Advertising Products Co., Cincinnati, Ohio. Reflecting signs, glass signs, sign boxes, etc. 306,729; Dec. 16. Class 50.
Claff, M. B., & Sons, Inc., Randolph, Mass. Paper boxes. 304,313; Dec. 16. Class 2.
Clark, J. R., Co., The, Minneapolis, Minn. Ironing boards. 306,088; Dec. 16. Class 24.
Clinton Shoe Mfg. Co., Clinton, Iowa. Shoes. 306,171; Dec. 16. Class 39.
Clothiers Corporation, Chicago, Ill. Suits, overcoats, etc. 305,156; Dec. 16. Class 39.
Coles, Howard B., doing business as Adipin Company, New York, N. Y. Medicinal compound or preparation. 307,767; Dec. 16. Class 6.
Conde Nast Publications, Inc, The, New York, N. Y. Magazine section. 307,478; Dec. 16. Class 38.
Conrad, L. N., doing business as The Shavaid Company, Dayton, Ohio. Ointment used for preparing the face for shaving. 306,936; Dec. 16. Class 6.
Cook, C. Lee, Manufacturing Company, Louisville, Ky. Metallic rod packings. 297,173; Dec. 16. Class 35.
Cook, C. Lee, Manufacturing Company, Louisville, Ky. Piston rings. 297,174; Dec. 16. Class 35.
Cook Paint and Varnish Company, North Kansas City, Mo. Paints, varnishes, paint enamels, etc. 302,934; Dec. 16. Class 16.
Cook Paint and Varnish Company, North Kansas City, Mo. Paints. 303,165; Dec. 16. Class 16.
Cooke & Cobb Company, The, Brooklyn, N. Y. Files, pocket wallets, etc. 306,995; Dec. 16. Class 37.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Cordo-Hyde Company, Brockton, Mass. Shoe trees and forms. 299,957; Dec. 16. Class 50.
Corn Products Refining Company, New York, N. Y. Starches and dextrins for sizing purposes. 307,804; Dec. 16. Class 6.
Courtaulds, Limited, London, England. Yarns of cellulose. 306,938–9; Dec. 16. Class 43.
Cramer, William R., doing business as Venlox Products Company, Venice, Calif. Face lotion. 307,586; Dec. 16. Class 6.
Crescent Shoe Company, New York, N. Y. Leather shoes. 303,503; Dec. 16. Class 39.
Curtis Manufacturing Company, doing business as Curtis Pneumatic Machinery Company, and Curtis Saw Company, Wellston Station, Mo. Tanks for compressed air. 307,387; Dec. 16. Class 2.
Dairy Laboratories, The, Philadelphia, Pa. Insecticides. 307,588; Dec. 16. Class 6.
Dennison Manufacturing Company, Framingham, Mass. Sanitary paper diapers. 306,855; Dec. 16. Class 44.
Detmer, Bruner & Mason, Inc., New York, N. Y. Woolen and worsted fabrics in the piece. 307,525; Dec. 16. Class 42.
Detroit Gasket & Manufacturing Company, Detroit, Mich. Gaskets. 307,268–9; Dec. 16. Class 35.
Dolge, C. B., Company, The, Westport, Conn. Solution used as a disinfectant and deodorizer. 306,037; Dec. 16. Class 6.
Disney, Walt, Productions, Ltd., Los Angeles, Calif. Dishes, chinaware, etc. 307,659; Dec. 16. Class 30.
Dispersions Process, Inc., New York, N. Y. Rubber dispersed in a water medium. 306,598; Dec. 16. Class 1.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Chromic acid, arsenic acid, etc. 304,499; Dec. 16. Class 6.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Cadmium metal and zinc metal. 307,526; Dec. 16. Class 14
Dupont-Pathé Film Manufacturing Corp., New York, N. Y. Photographic film. 307,315; Dec. 16. Class 26.
Eberhard Faber Pencil Company, Brooklyn, N. Y. Rubber bands and erasers. 307,159; Dec. 16. Class 37.
Edwards & Deutsch Lithographing Company, Chicago, Ill. Letter heads, correspondence forms, and partially-printed forms. 306,857–8; Dec. 16. Class 7.
Edwards & Deutsch Lithographing Company, Chicago, Ill. Letter heads, correspondence forms, etc. 306,859; Dec. 16. Class 37.
Emmental Cheese Corporation, New York, N. Y. Cheese. 289,148; Dec. 16. Class 46.
Enterprise Manufacturing Company, The, Akron, Ohio. Artificial bait. 307,590; Dec. 16. Class 22.
Eskimo Pie Corporation, doing business through its subsidiary New York Eskimo Pie Corporation, Louisville, Ky. Frozen confections. 303,634; Dec. 16. Class 46.
Excelsior Macaroni Company, Inc., Brooklyn, N. Y. Macaroni. 296,180; Dec. 16. Class 46.
Fall River Retail Grocers and Marketmen's Association, Fall River, Mass. Toilet tissue. 303,742; Dec. 16. Class 37.
Ferro Machine & Foundry Company, The, Cleveland, Ohio. Liquid-dispensing apparatus. 305,105; Dec. 16. Class 23.
Field, Fred F., Holsteins Dutchland Farms Trustees, Brockton, Mass. Milk, cream, butter, etc. 297,901; Dec. 16. Class 46.
Field, Fred F., Holsteins Dutchland Farms Trustees, Brockton, Mass. Ice cream. 297,903; Dec. 16. Class 46.
Field, Fred F., Holsteins Dutchland Farms Trustees, Brockton, Mass. Milk and cream. 299,382; Dec. 16. Class 46.
Fierman, Joseph, Brooklyn, N. Y. Onions in their natural state. 305,072; Dec. 16. Class 46.
Framecraft Manufacturing Company, Philadelphia, Pa. Picture frames. 306,133; Dec. 16. Class 32.
Fredriksson, Stafs A. E., Flen, assignor to Aktiebolaget Mavello, Stockholm, Sweden. All kinds of cloths, fabrics, skins, etc., used for therapeutic purposes. 300,623; Dec. 16. Class 44.
Fried-Ostermann Company, Milwaukee, Wis. Polishing and dusting mitt. 307,352; Dec. 16. Class 29.
Fues, Francois, doing business as Dr. Francois Fues Pharmaceutical Corp., Bloomfield and Newark, assignor to Dr. Francois Fues Pharmaceutical Corp., Newark, N. J. Cold cream and face powder. 302,819; Dec. 16. Class 6.
Garretson, Martin R., Hoboken, N. J. Bread, rolls, cakes, etc. 290,696; Dec. 16. Class 46.
General Paint Corporation, San Francisco, Calif. Paints, paint enamels, lacquers, etc. 307,483–4; Dec. 16. Class 16.
Gibbons, J. P., jr., doing business as Peanut Products Company, Hamlet, N. C. Salted peanuts and roasted peanuts. 299,700; Dec. 16. Class 46.
Glass, Jacob, New York, N. Y. Antinarcotics. 307,487; Dec. 16. Class 6.
Golf Bowl, Inc., New York, N. Y. Game devices. 306,860; Dec. 16. Class 22.
Golf-Nac Company, The. (See Christie, Henderson W.)
Goodyear Tire & Rubber Company, The, Akron, Ohio. Gymnasium apparatus and home exercisers. 301,622; Dec. 16. Class 22.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Grommets, belt cleats, etc. 301,624; Dec. 16. Class 13.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Hammer cushions, rubber mallets, etc. 301,625; Dec. 16. Class 23.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Washers, slush-pump sleeves, gaskets, etc. 301,628; Dec. 16. Class 35.
Grant, W. T., Company, Lynn, Mass., and New York, N. Y. Made-up tablecloths. 305,706; Dec. 16. Class 42.
Great Western Electro-Chemical Co., San Francisco, Calif. Solution of sodium hypochlorite. 307,623; Dec. 16. Class 6.
Greco Canning Company, Inc., San José, Calif. Tomato paste. 293,773; Dec. 16. Class 46.
Guttknecht, J. W., Stein, near Nuremberg, Germany. Pencils, pencil holders, pastel crayons, etc. 298,392; Dec. 16. Class 37.
Haines Leather Goods Company, Philadelphia, Pa. Sportsmen's kits. 305,611; Dec. 16. Class 8.
Health Products Corporation, Newark, N. J. Cod-liver-oil concentrate. 307,816; Dec. 16. Class 6.
Hightstown Rug Company, Hightstown, N. J. Rugs and carpets of textile fabrics. 306,399; Dec. 16. Class 42.
Holgate Brothers Company, Kane, Pa. Chopping board for breads, meats, vegetables, etc. 307,400; Dec. 16. Class 50.
Hollins, William, & Company, Limited, Nottingham and London, England. Cloths and stuffs of wool, etc. 306,183; Dec. 16. Class 42.
Hollywood Marvel Products Co., Hollywood, Calif. Shampoo. 307,595; Dec. 16. Class 6.
Hudson Distributing Co., Inc., Orlando, Fla. Fresh citrus fruits, deciduous fruits, and vegetables. 307,357; Dec. 16. Class 46.
Huntington Laboratories, Inc., Huntington, Ind. Cleaning compound. 306,863; Dec. 16. Class 4.
Inecto, Inc., New York, N. Y. Hair dyes, face powder, etc. 307,053; Dec. 16. Class 6.
International Handkerchief Mfg. Co., The, New York, N. Y. Handkerchiefs. 307,096–7; Dec. 16. Class 42.
Jacobs, John W., Douglas, Ga. Blood purifier and general tonic. 307,163; Dec. 16. Class 6.
Jenaer Glaswerk Schott & Gen., Jena, Germany. Raw glass. 283,282; Dec. 16. Class 33.
Johnson Suture Corporation, Chicago, Ill. Gut strings for rackets. 307,054; Dec. 16. Class 22.
Jubilee Manufacturing Co., Omaha, Nebr. Hose clamps. 306,893; Dec. 16. Class 13.
Kimberly-Clark Corporation, Neenah, Wis. Cover paper. 307,098; Dec. 16. Class 37.
King Features Syndicate, Inc., New York, N. Y. Comic strip or cartoon. 307,402; Dec. 16. Class 38.
Kirby, Jesse J., Gallatin, Tenn. Cups for greens, markers, putting irons, etc. 303,571; Dec. 16. Class 22.
Kunhardt & Company, Inc., New York, N. Y. Underwear garments. 306,704; Dec. 16. Class 39.
Kysky Company, The, Dallas, Tex. Antifreeze compounds for automobile radiators. 306,567; Dec. 16. Class 6.
Laboratorios Andromaco. (See Rubió, Fernando A., and Raúl Roviralta.)
Lawrence, R. S. (See Stratford, Roland L.)
Lederer, Lawrence, doing business as Nutex Sales Co., Philadelphia, Pa. Prophylactic articles made of rubber. 306,955; Dec. 16. Class 44.
Leese, Joseph, Boston, Mass. Permanent-waving pads. 301,469; Dec. 16. Class 44.
Le Laboratoire du Bactériophage, Paris, France. Agents in ampoule form destructive of bacteria or bacterialike bodies. 306,790–2; Dec. 16. Class 6.
Lentheric, Incorporated, New York, N. Y. Astringents, cleansing cream, etc. 306,062; Dec. 16. Class 6.
Lesher, Whitman & Co., Inc., New York, N. Y. Piece goods. 306,271; Dec. 16. Class 42.
Lubrication Engineering & Sales Company. (See Ray, John L.)
Lyons, Arthur C., Brantford, Ontario, Canada. Maltless beverages and extracts for making same. 299,850; Dec. 16. Class 45.
Magee, Charles J., doing business as Wilson Hartnett Candy Co., Chicago, Ill. Confectionery. 307,411; Dec. 16. Class 46.
Magnin & Co., San Francisco, Calif. Gowns, dresses, etc. 300,070; Dec. 16. Class 39.
Martin, J. B., Company, Norwich, Conn. Velvets. 303,197; Dec. 16. Class 42.
Martzolf, Antoine, City Island, N. Y. Food products. 300,358; Dec. 16. Class 46.
McCurrach Organization Incorporated, New York, N. Y. Shirts. 306,610; Dec. 16. Class 39.
McIlhenny Company, New Iberia, La. Pepper sauce. 304,777; Dec. 16. Class 46.
Meinig, E. Richard, Co., The, Reading, Pa. Gloves, hosiery, etc. 305,870; Dec. 16. Class 39.
Merchant Trading Company, Limited, The, London, England. Wall and ceiling panels. 301,047; Dec. 16. Class 12.
Meussdorffer, Conrad P., doing business as Cam Manufacturing Co., Ross, Calif. Electrical sirens. 303,695; Dec. 16. Class 21.
Midland Coal Corporation, The, Cincinnati, Ohio. Coal. 306,656; Dec. 16. Class 1.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Mills, Thomas, Inc., High Point, N. C. Hosiery. 307,071; Dec. 16. Class 39.
Milwaukee Glove Company, Milwaukee, Wis. Gloves. 304,059; Dec. 16. Class 39.
Moore, Helen L., Washington, D. C. Cakes. 307,453; Dec. 16. Class 46.
Motor X-Ray Co., Inc., Glendale, Calif. Applicators and injectors for compositions and fluids and the like. 282,124; Dec. 16. Class 23.
Moyer, Walter W., Ephrata, Pa. Underwear. 306,868; Dec. 16. Class 39.
Multiple Mfg. Corporation, Chicago, Ill. Phonograph needles. 306,782; Dec. 16. Class 36.
National Grocer Company, Detroit, Mich. Pop corn. 292,115; Dec. 16. Class 46.
Nauheim Pharmacy, Inc., New York, N. Y. Soaps. 306,783; Dec. 16. Class 4.
Nestlé's Milk Products, Inc., New York, N. Y. Infants' food. 305,534; Dec. 16. Class 46.
New Era Shirt Co., St. Louis, Mo. Suits, shirts, etc. 306,828; Dec. 16. Class 39.
Newspaper Feature Service, Inc., New York, N. Y. Comic strip or cartoon. 307,415; Dec. 16. Class 38.
New York Eskimo Pie Corporation. (See Eskimo Pie Corporation.)
Niagara Sprayer and Chemical Co., Inc., Middleport, N. Y. Dusting machine. 307,605; Dec. 16. Class 23.
Norton Company, Worcester, Mass. Oilstones, hones, etc. 306,829; Dec. 16. Class 4.
Nutex Sales Co. (See Lederer, Lawrence.)
Ortegat, Adelaide, née Adelaide Fernandez Lesa, Paris, France. Perfumes, shampoos, hair lotions, bath essences. 307,283; Dec. 16. Class 6.
Ouilliber Coffee Company, New Orleans, La. Coffee. 299,223; Dec. 16. Class 46.
Page, Francis L., Carnegie, Pa. Alimentary pastes. 300,539; Dec. 16. Class 46.
Patterson, Thomas A., doing business as T. A. Patterson Laboratories, Cleveland, Ohio. Chemical solution. 307,370; Dec. 16. Class 6.
Peanut Products Company. (See Gibbons, J. P., jr.)
Pepe, Frank, Macaroni Company, The, Waterbury, Conn. Macaroni. 306,889; Dec. 16. Class 46.
Perkins Hosiery Mills, Columbus, Ga. Pajamas. 303,034; Dec. 16. Class 39.
Perry Canning Co., Perry, Utah. Canned vegetables. 306,744; Dec. 16. Class 46.
Phoenix-Detroit Burner Corporation, Detroit, Mich. Oil burners and parts therefor. 306,962; Dec. 16. Class 34.
Pool, Frank M., Inc., Fresno, Calif. Fresh grapes. 291,473; Dec. 16. Class 46.
Price-Hollister Co., The, Rockford, Ill. Assembled and nonassembled vehicle attachments. 291,528; Dec. 16. Class 19.
Protectolize Company, Winchester, Mass. Polishing wax and a polish for the surfaces of automobiles. 301,360; Dec. 16. Class 16.
Radiovisor Parent Limited, London, England. Instruments for measuring differences in colors, opacities, and solution densities. 307,459; Dec. 16. Class 26.
Ray, John L., doing business as Lubrication Engineering & Sales Company, Long Island City, N. Y. Motor lubricating oils. 306,540; Dec. 16. Class 15.
Richardson & Boynton Company, New York, N. Y. Heating apparatus. 299,862; Dec. 16. Class 34.
Rivers, H. L., Moultrie, Ga. Preparation for use in promoting the growth of the hair. 307,536; Dec. 16. Class 6.
Rosenberg & Gallant, Bronx, N. Y. Canned fish. 307,736; Dec. 16. Class 46.
Roviralta, Raúl. (See Rubió, F. A., and Roviralta.)
Royal Card & Paper Co., Inc., New York, N. Y. Decorated vellum and Bristol papers. 307,059; Dec. 16. Class 37.
Royal Novelty Co. (See Switzer, Wayne H.)
Rubió, Fernando A., and Raúl Roviralta, doing business as Laboratories Andromaco, Barcelona, Spain. Cod-liver oil, general tonics, etc. 297,207; Dec. 16. Class 6.
Rue, William D., Cincinnati, Ohio. Salve preparation for local application in the treatment of corns, bunions, etc. 307,220; Dec. 16. Class 6.
Ryan, Matthew W., Sons & Co. Inc., New York, N. Y. Linen, cotton, and silk piece goods and mixtures thereof. 306,903; Dec. 16. Class 42.
Saccharin-Fabrik Aktiengesellschaft vorm. Fahlberg, List & Co., Magdeburg-Sudost, Germany. Preparation to be swallowed for producing a better contrast effect of the picture in Röntgen photographs. 305,143–4; Dec. 16. Class 6.
Scholl Mfg. Co., Inc., The, Chicago, Ill. Heel pads. 306,968; Dec. 16. Class 44.
Shavaid Company, The. (See Conrad, L. N.)
Shotwell Mfg. Co., The, doing business as Shotwell's, Chicago, Ill. Candy. 306,970–1; Dec. 16. Class 46.
Simon, Jerome H., Passaic, N. J. Carpet and rug cushions. 298,593; Dec. 16. Class 32.
Societe A Responsabilite Limitee Cointreau, Angers, France. Flavoring sauces. 304,075; Dec. 16. Class 46.
Southworth Machine Company, Portland, Me. Machines, tools, and appliances. 306,839; Dec. 16. Class 23.
Spieldoch, Tobias M., St. Louis, Mo. Venereal prophylactics. 307,637; Dec. 16. Class 6.
Stalfort, John C., & Sons, Inc., Baltimore, Md. Wax for waxing floors, etc. 266,494; Dec. 16. Class 16.
Standard Oil Company of New Jersey, Wilmington, Del. Glass pump globes and lenses therefor. 305,374; Dec. 16. Class 33.
Steele-Wedeles Company, Chicago, Ill. Maltless beverages. 302,080; Dec. 16. Class 45.
Stewart, Adelaide, New York, N. Y. Hair grower. 306,974; Dec. 16. Class 6.
Stone Baking Company, Atlanta, Ga. Bakery products. 306,749; Dec. 16. Class 46.
Stratford, Roland L., doing business as R. S. Lawrence, Cleveland, Ohio. Series of articles appearing in daily newspapers. 307,331; Dec. 16. Class 38.
Styron-Beggs Company, The, Newark, Ohio. Oxide of zinc, alum, etc. 307,070; Dec. 16. Class 6.
Superior Body Company, Lima, Ohio. Bus bodies. 307,462; Dec. 16. Class 19.
Switzer, Wayne H., doing business as Royal Novelty Co., Cromwell, Ind. Food product. 304,353; Dec. 16. Class 46.
Sym Products, Incorporated, St. Louis, Mo. Chemical for removing scale from radiators. 307,610; Dec. 16. Class 6.
Taylor Instrument Companies, Rochester, N. Y. Apparatus for determining the relative humidity of the air. 307,291; Dec. 16. Class 26.
Thuna, Dr. Balsam Remedies, Limited, Toronto, Ontario, Canada. Pharmaceutical preparation. 306,513; Dec. 16. Class 6.
Tinally, Alfred, San Antonio, Tex. Paste, lubricant, and a preservative for all metals, wood, and concrete. 303,454; Dec. 16. Class 6.
Treffinger, Henry, New York, N. Y. Horse-radish, pickled beets, pickled tomatoes, chowchow, etc. 292,340; Dec. 16. Class 46.
Tricolator Company, Inc., New York, N. Y. Filter papers. 307,333; Dec. 16. Class 31.
Union Bag and Paper Corporation, New York, N. Y. Paper bags. 307,541; Dec. 16. Class 2.
Venlox Products Company. (See Cramer, William H.)
Vitamint Inc., New York, N. Y. Chewing gum. 304,264; Dec. 16. Class 46.
Wabash Portland Cement Company, Stroh, Ind., Osborn, Ohio; and Detroit, Mich. Building cement. 302,295; Dec. 16. Class 12.
Wall Chemicals Incorporated, Detroit, Mich. Medicated tablet. 305,256; Dec. 16. Class 6.
Wilson Hartnett Candy Co. (See Magee, Charles J.)
Wyoming Valley Sherbet Co., Pittston, Pa. Fruit-flavored iced sherbets. 303,040; Dec. 16. Class 46.
Young, Hugh H., Baltimore, Md. Metal soap dispensers. 306,716; Dec. 16. Class 13.
Youngstown Welding & Engineering Co., The, Youngstown, Ohio. Gas water heaters. 306,548; Dec. 16. Class 34.
Youngstown Welding & Engineering Co., The, Youngstown, Ohio. Stepladder stools. 306,583; Dec. 16. Class 50.
Yuyama, Shigezo, Bronxville, N. Y. Medicinal preparation. 307,692; Dec. 16. Class 6.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 2

Bags. Pat Bags, Incorporated. 278,466; Dec. 16; Serial No. 299,224; published Sept. 30, 1930.
Bags, Paper. Hello World Broadcasting Corp. 278,449; Dec. 16; Serial No. 300,129; published Sept. 30, 1930.
Bags, Paper. E. F. Kemp. 278,456–7; Dec. 16; Serial Nos. 288,196–7; published Sept. 30, 1930.
Bags, Paper. E. F. Kemp. 278,458–9; Dec. 16; Serial Nos. 288,192–3; published Sept. 30, 1930.
Cases, Casket. Chicago Mill and Lumber Corporation. 278,499; Dec. 16.
Envelopes, Merchandise. United States Envelope Company. 278,477; Dec. 16.
Tubes and cones, Paper. Sonoco Products Company. 278,311; Dec. 16; Serial No. 304,017; published Sept. 30, 1930.

CLASS 4

Cleaning compound. J. B. Ford Company. 278,388; Dec. 16; Serial No. 295,071; published Sept. 30, 1930.
Cleaning fluid and powder, Dry-. No-Ring Corporation. 278,325; Dec. 16; Serial No. 304,293; published Oct. 7, 1930.
Cleanser, Waterless. E. M. Seale. 278,455; Dec. 16; Serial No. 288,356; published Oct. 7, 1930.
Cream and soap, Shaving. I. Jones. 278,333; Dec. 16; Serial No. 303,748; published Oct. 7, 1930.
Polish and shaving cream, Silver. Independent Druggists' Alliance Distributing Co. 278,331; Dec. 16; Serial No. 303,890; published Oct. 7, 1930.
Polishes and cleaners, and leather preservatives, Shoe. Griffin Manufacturing Company. 278,479; Dec. 16.

Silicon carbide for use as abrasives. Mayer & Schmidt, Schleifmaschinen & Schmiergelwerke, A. G. 278,446; Dec. 16; Serial No. 300,731; published Sept. 30, 1930.
Soap, Laundry. J. Di Santo. 278,332; Dec. 16; Serial No. 303,842; published Sept. 30, 1930.
Soap, Liquid. F. J. Flood. 278,335; Dec. 16; Serial No. 303,638; published Sept. 30, 1930.
Soaps and soap preparations. H. Th. Böhme A. G. 278,336; Dec. 16; Serial No. 303,622; published Sept. 30, 1930.
Soaps and soap preparations. H. Th. Böhme A. G. 278,337; Dec. 16; Serial No. 303,621; published Sept. 30, 1930.
Steel wool pads and holders therefor. M. Shapiro. 278,324; Dec. 16; Serial No. 304,431; published Sept. 30, 1930.
Washing tablets. Tyson & Company. 278,321; Dec. 16; Serial No. 304,837; published Oct. 7, 1930.

CLASS 6

Anesthetic preparation, Hypnotic sedative. Abbott Laboratories. 278,433; Dec. 16; Serial No. 304,849; published Oct. 7, 1930.
Antacid tablets. Oxyborate Co. 278,434; Dec. 16; Serial No. 304,827; published Oct. 7, 1930.
Astringents, astringent cerates, bleach creams, etc. A. P. Babcock Company. 278,426; Dec. 16; Serial No. 300,852; published Sept. 23, 1930.
Blood purifier, tonic, and alterative. E. F. Stentz. 278,405; Dec. 16; Serial No. 303,825; published Sept. 30, 1930.
Chemical composition. American Colloid Corporation. 278,412; Dec. 16; Serial No. 303,561; published Sept. 16, 1930.
Compound for use in permanent waving of the human hair, Liquid. W. G. Shelton Company. 278,419; Dec. 16; Serial No. 303,126; published Sept. 30, 1930.
Corn plasters. Allcock Manufacturing Co. 278,441; Dec. 16; Serial No. 286,096; published Sept. 30, 1930.
Cream, cough medicine, Epsom salts, etc., Cold. Independent Druggists' Alliance Distributing Co. 278,401; Dec. 16; Serial No. 303,892; published Sept. 30, 1930.
Creams, Skin. L. M. Kattelmann. 278,431; Dec. 16; Serial No. 295,263; published Sept. 16, 1930.
Dentifrices and remedies for certain diseases. Smith, Kline & French Company. 80,683; renewed Jan. 17, 1931.
Disinfectants and insecticides. Hygiene Products Limited. 278,413; Dec. 16; Serial No. 303,507; published Sept. 16, 1930.
Douche powder, Vaginal. R. T. Haller. 278,428; Dec. 16; Serial No. 299,574; published Sept. 16, 1930.
Extractive, Weight reducing. F. Llewellyn. 278,437; Dec. 16; Serial No. 304,504; published Sept. 23, 1930.
Germicidal substance. Sharp & Dohme, Incorporated. 278,435; Dec. 16; Serial No. 304,586; published Sept. 23, 1930.
Insecticide and disinfectants. H. Edelstein. 278,484; Dec. 16.
Laxative. P. P. Errante. 278,404; Dec. 16; Serial No. 303,843; published Oct. 7, 1930.
Lip sticks. Edna Wallace Hopper, Inc. 278,410; Dec. 16; Serial No. 303,568; published Sept. 23, 1930.
Medical preparation. J. W. Williams. 278,409; Dec. 16; Serial No. 303,587; published Sept. 30, 1930.
Medicated shields or pads for corns, Adhesive. Scholl Mfg. Co. Inc. 278,423; Dec. 16; Serial No. 304,110; published Sept. 16, 1930.
Medicinal herbs, a medicinal mineral, and an organic mineral. J. C. Bornfeldt. 278,422; Dec. 16; Serial No. 301,239; published Sept. 16, 1930.
Medicinal preparation. Kolo Springs Products Co. 278,415; Dec. 16; Serial No. 303,445; published Sept. 23, 1930.
Medicinal preparations. N. E. Long. 278,417; Dec. 16; Serial No. 303,332; published Sept. 16, 1930.
Medicinal product, Vitamin. Société des Usines Chimiques Rhone-Poulenc. 278,442; Dec. 16; Serial No. 285,232; published Oct. 7, 1930.
Medicinal solution and pharmaceutical preparation. Ichthyol Co. 278,443; Dec. 16; Serial No. 285,155; published Nov. 19, 1929.
Medicine. R-B Pharmacal Co. Inc. 278,408; Dec. 16; Serial No. 303,726; published Oct. 7, 1930.
Medicines. K. Nakashima. 278,414; Dec. 16; Serial No. 303,484; published Oct. 7, 1930.
Medicines. Martin H. Smith Co. 35,974; renewed Feb. 26, 1931.
Oil for the protection of animals from flies, gnats, etc. G. B. Carran. 278,439; Dec. 16; Serial No. 304,450; published Sept. 23, 1930.
Perfumes, toilet essences, powder, and lotions. B. Fernández. 278,444; Dec. 16; Serial No. 274,828; published Oct. 7, 1930.
Powder, Face and toilet. Coty, Inc. 278,420; Dec. 16; Serial No. 302,812; published Sept. 23, 1930.
Powder, Hair. C. Reichart. 278,430; Dec. 16; Serial No. 298,715; published Sept. 16, 1930.
Preparation for the treatment of poison oak. E. W. King. 278,436; Dec. 16; Serial No. 304,562; published Sept. 30, 1930.
Preparation for use in the treatment of piles. J. H. Anderson. 278,407; Dec. 16; Serial No. 303,796; published Sept. 23, 1930.
Preparation used for removing ink, iodine, grease, etc. C. H. Eddy. 278,416; Dec. 16; Serial No. 303,430; published Oct. 7, 1930.
Rouge, Lip. A. Warnesson. 278,438; Dec. 16; Serial No. 304,478; published Oct. 7, 1930.
Salt, Granular effervescent. T. H. Jones. 278,496; Dec. 16.
Salt, Laxative effervescent. Lee Laboratories Incorporated. 278,432; Dec. 16; Serial No. 304,871; published Oct. 7, 1930.
Salve. A Somers. 278,495; Dec. 16.
Sedative and antispasmodic. R. T. Haller. 278,429; Dec. 16; Serial No. 299,573; published Sept. 16, 1930.
Shampoo, Liquid. B. Cervelli. 278,421; Dec. 16; Serial No. 301,333; published Sept. 30, 1930.
Shampoo powder. Colgate-Palmolive-Peet Company. 278,418; Dec. 16; Serial No. 303,160; published Sept. 16, 1930.
Shampooing preparation. F. T. Hopkins. 278,402; Dec. 16; Serial No. 303,888; published Oct. 7, 1930.
Shampoos, hair tonics, cold creams, etc. A. R. Martino. 278,406; Dec. 16; Serial No. 303,817; published Oct. 7, 1930.
Silver chloride compound, mercury sulphide, and mercury copper sulphide, Colloidal. Hille Laboratories Incorporated. 278,425; Dec. 16; Serial No. 283,683; published Sept. 30, 1930.
Tablet for the treatment of anemia, etc. William H. Rorer, Inc. 278,500; Dec. 16.
Toilet preparations. May Department Stores Company. 278,427; Dec. 16; Serial No. 299,787; published Oct. 7, 1930.
Toilet preparations and cosmetics. S. Carrick. 278,440; Dec. 16; Serial No. 288,062; published Sept. 30, 1930.
Toilet preparations, preparations for use in the treatment of the hair, and cosmetics. Nestle-Le Mur Company. 278,489; Dec. 16.
Tonic, General body. El-Sano Laboratories, Inc. 278,411; Dec. 16; Serial No. 303,566; published Oct. 7, 1930.
Tonic, Nerve and kidney. Blac-Kat Medicine Company. 278,403; Dec. 16; Serial No. 303,874; published Sept. 30, 1930.
Tooth paste. J. Zuckerman. 278,424; Dec. 16; Serial No. 304,443; published Sept. 23, 1930.

CLASS 7

Cordage, rope, and twine. Edwin H. Fitler Co. 36,156; renewed Apr. 2, 1931.

CLASS 11

Ink, Duplicating. A. B. Dick Company. 81,204; renewed Mar. 14, 1931.

CLASS 12

Asphalt, All grades of petroleum. Lion Oil Refining Company. 278,347; Dec. 16; Serial No. 304,010; published Sept. 30, 1930.
Metallic plates. Berger Manufacturing Company. 80,300; renewed Dec. 6, 1930.
Plastic expansive-joint-sealing compound. Quigley Furnace Specialties Company. 278,353; Dec. 16; Serial No. 303,209; published Sept. 30, 1930.
Slate, Roofing. Bangor Slate Association Inc. 278,357; Dec. 16; Serial No. 302,525; published Sept. 30, 1930.
Tar, asphalt, gravel, etc., Mixtures of. Geigy Company. 278,390; Dec. 16; Serial No. 294,511; published Sept. 30, 1930.
Trellises and pergolas. R. S. Cox. 278,473; Dec. 16; Serial No. 297,411; published Sept. 30, 1930.
Wooden panels for cabinetwork. National Veneer Package Company. 278,350; Dec. 16; Serial No. 303,648; published Sept. 30, 1930.

CLASS 13

Curtains, Duck shower-bath. Chase Brass & Copper Co. Incorporated. 278,462; Dec. 16; Serial No. 283,782; published Sept. 30, 1930.
Pipe and tubing, Metal. Youngstown Sheet & Tube Company. 278,309; Dec. 16; Serial No. 304,481; published Sept. 30, 1930.
Valves and valve casings. Fried. Krupp Aktiengesellschaft. 278,453; Dec. 16; Serial No. 288,997; published Sept. 30, 1930.
Wire fencing. American Wire Fence Company. 278,501; Dec. 16.

CLASS 14

Magnesium and magnesium alloy castings and forgings. Dow Chemical Company. 278,461; Dec. 16; Serial No. 286,674; published July 29, 1930.
Metal castings and forgings. William Jessop & Sons, Limited. 79,060; renewed Aug. 2, 1930.
Metal castings and forgings. William Jessop & Sons, Limited. 79,585; renewed Sept. 20, 1930.
Tin, terne, zinc, and black plates. Redbrook Tinplate Co. Limited. 81,548; renewed Apr. 18, 1931.

CLASS 15

Gasoline, naphtha, kerosene, etc. White Star Refining Company. 278,296; Dec. 16; Serial No. 303,233; published Sept. 30, 1930.
Oils and greases, Lubricating. Georgia-Carolina Oil Company. 278,280; Dec. 16; Serial No. 304,240; published Sept. 30, 1930.

Oils and greases, Lubricating. Jesco Lubricants Co. 278,293; Dec. 16; Serial No. 303,443; published Sept. 30, 1930.

CLASS 19

Automobiles and structural parts thereof. Peerless Motor Car Corporation. 278,317; Dec. 16; Serial No. 302,185; published Sept. 30, 1930.
Oars and paddles, Boat. New York Boat Oar Company. 278,315; Dec. 16; Serial No. 302,789; published Sept. 30, 1930.
Springs and bearing springs and blocks for railway vehicles, India-rubber buffing and draw. George Spencer, Moulton & Company, Limited. 278,383; Dec. 16; Serial No. 295,766; published Sept. 30, 1930.

CLASS 21

Armatures and armature parts. Universal Armature Corporation. 278,397; Dec. 16; Serial No. 304,592; published Sept. 30, 1930.
Dry-cell batteries. French Battery Company. 278,396; Dec. 16; Serial No. 304,612; published Sept. 30, 1930.
Dry-cell batteries. French Battery Company. 278,398; Dec. 16; Serial No. 304,550; published Sept. 30, 1930.
Electric lanterns, electric flash lights, etc. Bond Electric Corporation. 278,451; Dec. 16; Serial No. 291,961; published Jan. 14, 1930.
Electric signs. Longsign Corporation. 278,399; Dec. 16; Serial No. 304,467; published Sept. 30, 1930.
Electrical conductors. United States Rubber Company. 278,295; Dec. 16; Serial No. 303,354; published Sept. 30, 1930.
Electrical goods and apparatus. Edwards and Company. 278,381; Dec. 16; Serial No. 269,834; published Sept. 30, 1930.
Electrical goods and apparatus. Edwards and Company. 278,382; Dec. 16; Serial No. 269,832; published Sept. 30, 1930.
Electrical sunplies. Star Expansion Bolt Company. 80,684; renewed Jan. 17, 1931.
Heaters, Water. Lux-Visel Company. 278,297; Dec. 16; Serial No. 303,061; published Sept. 30, 1930.
Horns and alarms, Electrically-operated signal. Lovell-McConnell Manufacturing Company. 80,789–90; renewed Jan. 31, 1931.
Insulating knobs, Assembled. Porcelain Products, Inc. 278,282; Dec. 16; Serial No. 304,065; published Sept. 30, 1930.
Lighters, Electric cigar. J. H. Cohen. 278,469; Dec. 16; Serial No. 299,046; published Sept. 30, 1930.
Radio apparatus. Kiel Furniture Co. 278,290; Dec. 16; Serial No. 303,907; published Sept. 30, 1930.
Radio grounds, aerials, selective radio aerials, etc. F. J. Vondenbosh. 278,298; Dec. 16; Serial No. 303,016; published Sept. 30, 1930.
Vacuum cleaners, Electrical. P. A. Geier Company. 278,281; Dec. 16; Serial No. 304,134; published Sept. 30, 1930.

CLASS 22

Archery ranges, bows, and arrows, Complete portable. E. E. Jarrett. 278,291; Dec. 16; Serial No. 303,747; published Sept. 30, 1930.
Artificial bait. L. B. Huntington. 278,394; Dec. 16; Serial No. 304,688; published Sept. 30, 1930.
Balls. Albany Billiard Ball Co. 278,289; Dec. 16; Serial No. 304,747; published Sept. 30, 1930.
Balls. Albany Billiard Ball Co. 278,392; Dec. 16; Serial No. 304,746; published Sept. 30, 1930.
Balls. Albany Billiard Ball Co. 278,393; Dec. 16; Serial No. 304,744; published Sept. 30, 1930.
Golf balls and clubs. Popular Games, Inc. 278,460; Dec. 16; Serial No. 288,146; published Sept. 30, 1930.

CLASS 23

Apparatus for subjecting gases to centrifugal action. Western Precipitation Company. 278,465; Dec. 16; Serial No. 299,294; published Oct. 7, 1930.
Engines. Menasco Motors, Inc. 278,358; Dec. 16; Serial No. 302,441; published Oct. 7, 1930.
Engines, crank cases, cylinders, etc. Daimler-Benz Aktiengesellschaft. 278,454; Dec. 16; Serial No. 288,587; published Oct. 7, 1930.
Grinders, Feed. Western Land Roller Company. 278,343; Dec. 16; Serial No. 304,985; published Oct. 7, 1930.
Ice-shaving machines. Snoko Inc. 278,450; Dec. 16; Serial No. 299,868; published Oct. 7, 1930.
Knives, forks, basters, etc., Base-metal. Württembergische Metallwarenfabrik. 278,472; Dec. 16; Serial No. 297,462; published Oct. 7, 1930.
Loom reeds. Textile Specialty Co. 278,346; Dec. 16; Serial No. 304,022; published Oct. 7, 1930.
Razor blades, Safety. Gillette Safety Razor Company. 278,391; Dec. 16; Serial No. 293,878; published Oct. 7, 1930.
Sewing machines and parts thereof. Anker-Werke A.-G. 278,354; Dec. 16; Serial No. 303,042; published Oct. 7, 1930.
Shears and scissors. Acme Shear Company. 278,344; Dec. 16; Serial No. 304,935; published Oct. 7, 1930.
Stropping machines. E. Braselmann. 278,385; Dec. 16; Serial No. 295,420; published Oct. 7, 1930.

CLASS 24

Laundry articles. American Wringer Co. 36,101; renewed Mar. 19, 1931.

CLASS 26

Films. Eureka Color Film Company. 278,463; Dec. 16; Serial No. 299,694; published Oct. 7, 1930.
Films. Randolph Movie Company. 278,476; Dec. 16; Serial No. 296,080; published Sept. 9, 1930.
Lorgnettes, eyeglasses, spectacles, etc. Lugene Inc. 278,340–1; Dec. 16; Serial Nos. 305,139–40; published Oct. 7, 1930.
Marine instruments. A. McNab. 278,299; Dec. 16; Serial No. 301,979; published Oct. 1, 1930.
Pictures and films, Motion. Fox Film Corporation. 278,348; Dec. 16; Serial No. 303,765; published Oct. 7, 1930.

CLASS 28

Bracelets. J. Granat. 278,292; Dec. 16; Serial No. 303,640; published Sept. 30, 1930.
Rings, Finger. J. Granat. 278,294; Dec. 16; Serial No. 303,436; published Sept. 30, 1930.

CLASS 29

Toothbrushes. Geo. Borgfeldt & Co. 81,121; renewed Mar. 7, 1931.

CLASS 32

Mattresses, box springs, and pillows. P. Strauss. 278,300; Dec. 16; Serial No. 301,215; published Oct. 7, 1930.
Tables. Ingram Richardson Corporation. 278,351; Dec. 16; Serial No. 303,644; published Oct. 7, 1930.

CLASS 34

Boilers and water heaters, Steel heating. Monitor Boiler Company. 278,447; Dec. 16; Serial No. 300,580; published Sept. 30, 1930.
Lighters, Friction and pyrophoric. Croyden Products, Inc. 278,308; Dec. 16; Serial No. 304,607; published Sept. 30, 1930.
Ranges. Crown Stove Works. 278,313; Dec. 16; Serial No. 303,166; published Sept. 30, 1930.

CLASS 35

Brake linings. Russell Manufacturing Company. 278,342; Dec. 16; Serial No. 305,090; published Oct. 7, 1930.
Hose, Garden. Sears, Roebuck and Co. 278,481–3; Dec. 16.

CLASS 36

Musical instruments and supplies. S. G. Stern. 278,464; Dec. 16; Serial No. 299,471; published Sept. 30, 1930.
Phonograph disc turntables. Weber Machine Corporation. 278,387; Dec. 16; Serial No. 295,284; published Sept. 30, 1930.
Phonograph-record changers and repeaters. Electra Corporation. 278,400; Dec. 16; Serial No. 304,276; published Sept. 30, 1930.

CLASS 37

Book, Blank. Ohio Coupon Company. 278,360; Dec. 16; Serial No. 303,203; published Sept. 30, 1930.
Bookholder. Fixtpage Company. 278,369; Dec. 16; Serial No. 304,192; published Sept. 30, 1930.
Duplicating machines and parts thereof. A. B. Dick Company. 81,205; renewed Mar. 14, 1931.
Paper and envelopes made therefrom, Printing. Paper Mills Company. 278,470; Dec. 16; Serial No. 298,954; published Sept. 30, 1930.
Paper and envelopes, Writing. Montag Bros. Inc. 278,371; Dec. 16; Serial No. 304,566; published Sept. 30, 1930.
Paper and envelopes, Writing. Montag Bros. Inc. 278,373; Dec. 16; Serial No. 304,692; published Sept. 30, 1930.
Paper and stencils, Stencil. L. E. Fuller. 80,310; renewed Dec. 6, 1930.
Paper, Creped waterproof and lining. Crepe-Kraft Company. 278,364; Dec. 16; Serial No. 303,839; published Sept. 30, 1930.
Paper, Stencil. A. B. Dick Company. 81,203; renewed Mar. 14, 1931.
Paper, Tissue. Dunn Sulphite Paper Co. 278,378; Dec. 16; Serial No. 301,602; published Sept. 30, 1930.
Paper to be used for wall coverings and window shades. Sheetpaint Products Corporation. 278,372; Dec. 16; Serial No. 304,587; published Sept. 30, 1930.
Paper, Waterproof. E. A. Hall, jr. 278,370; Dec. 16; Serial No. 304,286; published Sept. 30, 1930.
Papers, Coated. McLaurin-Jones Co. 278,474; Dec. 16; Serial No. 296,230; published Sept. 30, 1930.
Pencils, penholders, and erasing rubbers. Bleistift-Fabrik vorm. Johann Faber. A.-G. 78,677; renewed July 5, 1930.
Stationery. Independent Druggists' Alliance Distributing Co. 278,365; Dec. 16; Serial No. 303,900; published Sept. 30, 1930.

CLASS 38

Books, Guide. Certified Motor Rests, Inc. 278,368; Dec. 16; Serial No. 304,093; published Sept. 30, 1930.
Charts and data sheets, Printed. W. H. Shirk. 278,377; Dec. 16; Serial No. 301,229; published Sept. 30, 1930.
Magazine, Monthly. Curtis Publishing Company. 35,321; renewed Oct. 30, 1930.

News sheets. I. Rinehart. 278,362; Dec. 16; Serial No. 303,302; published Sept. 30, 1930.
Newspaper. Negro World Publishing Co. Inc. 278,363; Dec. 16; Serial No. 303,339; published Sept. 30, 1930.
Newspaper articles. J. L. Herzog. 278,379; Dec. 16; Serial No. 303,001; published Sept. 30, 1930.
Pamphlets. United Engineering & Foundry Company. 278,389; Dec. 16; Serial No. 294,547; published Sept. 30, 1930.
Periodical. Howard Publications, Inc. 278,366; Dec. 16; Serial No. 303,965; published Sept. 30, 1930.
Periodical. B. M. Person. 278,475; Dec. 16; Serial No. 296,143; published Sept. 30, 1930.
Reports issued daily. I. Rinehart. 278,361; Dec. 16; Serial No. 303,301; published Sept. 30, 1930.
Sheet music, orchestral arrangements therefor, and bound volumes of same. Red Star Music Company. 278,367; Dec. 16; Serial No. 304,067; published Sept. 30, 1930.

CLASS 39

Boots and shoes. International Shoe Co. 278,328; Dec. 16; Serial No. 304,145; published Sept. 23, 1930.
Clothing. Mandelert Mercantile Co. 73,596; renewed May 4, 1929.
Hats. International Millinery Co. Inc. 278,374; Dec. 16; Serial No. 301,654; published Sept. 30, 1930.
Hats, Ladies'. Dunlap's California Sport Hats, Inc. 278,498; Dec. 16.
Hats, Women's. Milgrim Hats, Inc. 278,376; Dec. 16; Serial No. 303,241; published Sept. 23, 1930.
Headwear. Le Rae Hat Co. 278,386; Dec. 16; Serial No. 295,378; published Sept. 23, 1930.
Hosiery, undershirts, drawers, and union suits. H. Wolf & Sons. 79,710; renewed Sept. 27, 1930.
Lingerie, Women's. Milberg & Milberg. 278,478; Dec. 16.
Overcoats, coats, raincoats, etc. Lansburgh & Bro. 278,375; Dec. 16; Serial No. 302,950; published Sept. 23, 1930.
Shirts, negligee shirts, vests, etc., Dress. Delpark, Inc. 278,448; Dec. 16; Serial No. 300,406; published Sept. 23, 1930.
Shoes. S. L. Bird and Sons. 278,445; Dec. 16; Serial No. 300,779; published Sept. 23, 1930.
Shoes. H. David. 278,494; Dec. 16.
Shoes. F. A. Kuhnert Shoe Corp. 278,480; Dec. 16.
Shoes. H. Rubin. 278,327; Dec. 16; Serial No. 304,163; published Sept. 23, 1930.
Shoes. Sears, Roebuck and Co. 278,492; Dec. 16.
Shoes. Valley Shoe Corporation. 278,338; Dec. 16; Serial No. 303,497; published Sept. 23, 1930.
Shoes, Women's. Sherwood Shoe Company. 278,326; Dec. 16; Serial No. 304,254; published Sept. 23, 1930.

CLASS 40

Buttons and beads. George Morrell Corporation. 278,384; Dec. 16; Serial No. 299,584; published Sept. 23, 1930.
Pins, Pronged retaining. Rau Fastener Company. 278,487; Dec. 16.

CLASS 42

Blankets, flannels, and woolen piece goods. Mandelert Mercantile Co. 73,896; renewed June 1, 1929.
Cotton goods, cotton and silk goods, and artificial-silk goods in the piece. Rossman Brothers & Messner, Inc. 278,279; Dec. 16; Serial No. 304,252; published Sept. 30, 1930.
Fabrics in the piece, Pile. Sidney Blumenthal & Co. Inc. 278,471; Dec. 16; Serial No. 298,527; published Sept. 30, 1930.
Goods of cotton, linen, woolen, etc., Piece. Cluett, Peabody & Co. 278,395; Dec. 16; Serial No. 304,678; published Sept. 30, 1930.
Sheets and pillowcases. Nashua Manufacturing Company. 278,286; Dec. 16; Serial No. 304,824; published Sept. 30, 1930.
Silk piece goods. F. Ducharne Silk Co. Inc. 278,502; Dec. 16.
Silk piece goods. Foremost Fabrics Corporation. 278,486; Dec. 16.
Toweling and woven fabrics of linen. Art Linen Company. 278,488; Dec. 16.
Worsted and woolen fabrics. Holden-Leonard Company. 278,287–8; Dec. 16; Serial Nos. 304,817–18; published Sept. 30, 1930.

CLASS 43

Textile fibres of all kinds, artificial straw, horsehair, etc. Société de la Viscose Suisse. 278,284; Dec. 16; Serial No. 304,892; published Sept. 30, 1930.
Thread, yarns, and filaments of artificial silk. Société de la Viscose Suisse. 278,283; Dec. 16; Serial No. 304,893; published Sept. 30, 1930.
Threads, yarns, and filaments. Société de la Viscose Suisse. 278,285; Dec. 16; Serial No. 304,891; published Sept. 30, 1930.

CLASS 44

Air-purifying apparatus. Domestic Electric Company. 278,339; Dec. 16; Serial No. 303,320; published Oct. 7, 1930.
Atomizers, Perfume and medicinal. Marcel Franck, Inc. 278,334; Dec. 16; Serial No. 303,743; published Oct. 7, 1930.
Bandages, Elastic. Kopf Mfg. Co. 278,329; Dec. 16; Serial No. 304,053; published Oct. 7, 1930.
Calcium preparation. Coe Laboratories, Inc. 278,322; Dec. 16; Serial No. 304,681; published Oct. 7, 1930.
Dentures. Coe Laboratories, Inc. 278,323; Dec. 16; Serial No. 304,680; published Oct. 7, 1930.
Surgical adhesive tape and bandages. Independent Druggists' Alliance Distributing Co. 278,330; Dec. 16; Serial No. 303,903; published Oct. 7, 1930.
Toothpicks, Wooden. C. Forster. 35,326; renewed Oct. 30, 1930.
Toothpicks, Wooden. C. Forster. 35,328; renewed Oct. 30, 1930.
Toothpicks, Wooden. C. Forster. 35,456–7; renewed Nov. 20, 1930.

CLASS 45

Beverage and extract for making soft drinks, Maltless. A. R. Burnside. 278,380; Dec. 16; Serial No. 287,865; published Sept. 10, 1929.
Beverage, Maltless. A. B. Lawless. 278,491; Dec. 16.
Beverages, Maltless. E. J. Petrosemolo. 278,485; Dec. 16.
Beverage, Maltless citrous. Florida Orange Dry Corporation. 278,493; Dec. 16.
Root beer extract. Smith, Kline & French Company. 80,741; renewed Jan. 24, 1931.

CLASS 46

Candies and frozen confections. Eskimo Pie Corporation. 278,312; Dec. 16; Serial No. 303,598; published Oct. 7, 1930.
Candy. Fred W. Amend Co. 278,310; Dec. 16; Serial No. 304,030; published Oct. 7, 1930.
Candy. Bunte Brothers. 278,345; Dec. 16; Serial No. 304,601; published Sept. 30, 1930.
Candy. T. Charles Dusenberg. 80,468; renewed Dec. 27, 1930.
Canned corn. Faribault Canning Company. 278,318; Dec. 16; Serial No. 301,426; published Sept. 30, 1930.
Canned fruits and vegetables, dried fruits, canned fruits for salad. California Co-Operative Producers. 278,452; Dec. 16; Serial No. 290,448; published Oct. 7, 1930.
Canned fruits, canned vegetables, and sauerkraut. Rocky Mountain Packing Corporation. 278,316; Dec. 16; Serial No. 302,479; published Sept. 30, 1930.
Canned tripe, canned squid, canned shrimp, etc., with tomato sauce. P. Rescigno. 278,359; Dec. 16; Serial No. 302,027; published Sept. 30, 1930.
Chili. W. B. King. 278,319; Dec 16; Serial No. 301,270; published Oct. 7, 1930.
Coffee. Charles E. Brown & Co. 80,405; renewed Dec. 20, 1930.
Coffee. Fletcher Coffee & Spice Co. 81,601; renewed Apr. 25, 1931.
Confection, Candy. The Tropical Vitamin Co., Inc. 278,304; Dec. 16; Serial No. 305,005; published Oct. 7, 1930.
Fish, Fresh. Tribuna-Magri Co. 278,355; Dec. 16; Serial No. 303,038; published Sept. 30, 1930.
Flour, Wheat. Bliah Milling Company. 80,638; renewed Jan. 17, 1931.
Flour, Wheat. Carr Milling Company. 80,828; renewed Feb. 7, 1931.
Fruits, dates, grapes, Fresh citrus. A. B. Cliff. 278,303; Dec. 16; Serial No. 305,035; published Oct. 7, 1930.
Fruits, Fresh deciduous. Newbry & Sons. 278,320; Dec. 16; Serial No. 305,053; published Oct. 7, 1930.
Grapefruit, Fresh. E. A. Bailey. 278,467–8; Dec. 16; Serial Nos. 299,176–7; published Sept. 30, 1930.
Grapes, Fresh. A. J. Sturtevant. 278,302; Dec. 16; Serial No. 305,057; published Oct. 7, 1930.
Gum, Chewing. Frank H. Fleer Corporation. 278,305–6; Dec. 16; Serial Nos. 304,761–2; published Oct. 7, 1930.
Gum, Chewing. Honey Chewing Gum Co. 278,314; Dec. 16; Serial No. 303,118; published Oct. 7, 1930.
Peanuts, Salted. G. C. Howell. 278,307; Dec. 16; Serial No. 304,661; published Oct. 7, 1930.
Potatoes. Nix Produce Company. 278,349; Dec. 16; Serial No. 303,751; published Sept. 30, 1930.
Sausage casings. Visking Corporation. 278,352; Dec. 16; Serial No. 303,410; published Sept. 30, 1930.
Sausage casings. Visking Corporation. 278,356; Dec. 16; Serial No. 302,707; published Sept. 30, 1930.
Vegetables, Fresh. Venice, Celery Distributors. 278,301; Dec. 16; Serial No. 305,062; published Oct. 7, 1930.

Class 48

Malt cereal beverage. Mid-City Beverage Company. 278,490; Dec. 16.

CLASS 49

Gin. Tanqueray, Gordon Co. Limited. 35,465; renewed Nov. 20, 1930.

ALPHABETICAL LIST OF LABELS

Antonio Cortina. For Cigars. Antonio Cortina. 38,378; Dec. 16.
Arcturus Radio Tubes. For Radio Tubes. Arcturus Radio Tube Company. 38,373; Dec. 16.
Blue Flag. For Evaporated Prunes. Earl Fruit Company. 38,380; Dec. 16.
Carolina Cleanser. For Cleanser. Champion Fibre Company. 38,377; Dec. 16.
Carroon. For Tomatoes. Carroon & Co. Inc. 38,375; Dec. 16.
Chicken Of The Sea. For Canned Tuna Fish. Van Camp Sea Food Co. Inc. 38,391; Dec. 16.
Color Harmony Guide. For Bias-Fold Tape. Walker Webbing Company. 38,392; Dec. 16.
Creve Coeur Brand. For Eggs. Koch & Bolliger. 38,383; Dec. 16.
Dainty-Lee. For Cakes. Goeken Cake Co. 38,381; Dec. 16.
Dinner Belle. For Bread. Central Waxed Paper Company. 38,376; Dec. 16.
Golden Star. For Butter. Menasha Products Company. 38,385; Dec. 16.
Grandma's Honey Crisp Potato Chips. For Potato Chips. Lantz Bros. Baking Co. 38,384; Dec. 16.
Hansley Guaranteed. For Athletic Underwear. Hansley Mills. 38,382; Dec. 16.
Milbrand. For Sausage. Z. M. Zilberbrand. 38,393; Dec. 16.
Nervaspa Headache Tablets. For Headache Tablets. S. W. Burda. 38,374; Dec. 16.
Radiant Toilet Cleaner. For a Preparation For Cleaning Toilet Bowls. Midway Chemical Company. 38,386; Dec. 16.
Royal. For Baking Powder. Standard Brands Incorporated. 38,387; Dec. 16.
Royal. For Baking Powder. Standard Brands Incorporated. 38,388; Dec. 16.
Royal. For Gelatin Dessert. Standard Brands Incorporated. 38,389; Dec. 16.
Sofwash. For Washing Crystals. H. Dubin. 38,379; Dec. 16.
Sun-Ra. For Barbecue Sauce. Sun-Ra Products Company. 38,390; Dec. 16.

ALPHABETICAL LIST OF PRINTS

A Drowsy Old Louisiana Plantation and a Very Alert Small Boy Alfred Olivier Hero, Jr. For Wheat Breakfast Food. Cream of Wheat Corporation. 12,857; Dec. 16.
Essential Apparel for Every Sport. For Athletic Supporters and Suspensories. Kendall Company. 12,861; Dec. 16.
Everybody's Ash Receiver. For Novelty Ash Trays. I. H. Fishlove. 12,859; Dec. 16.
Gruen Timekeeping Baguette. For Watches. Gruen Watch Company. 12,860; Dec. 16.
Lexco. For Concrete Blocks. Lexington Concrete Products Company. 12,863; Dec. 16.
Original Creations by Black, Starr & Frost-Gorham, Inc. For Jewelled Hair Pins. Black, Starr & Frost-Gorham, Inc. 12,856; Dec. 16.
Red Flash Coke. For Coke. V. E. Montgomery Company. 12,864; Dec. 16.
W. J. Kennedy Dairy Co. For Milk. W. J. Kennedy Dairy Co. 12,862; Dec. 16.
When It's an Exide You Start. For Storage Batteries. Electric Storage Battery Company. 12,858; Dec. 16.
Williams Rayex. For Tonic for Scalp and Hair. J. B. Williams Company. 12,865; Dec. 16.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 16TH DAY OF DECEMBER, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

A-B Stove Company. (See Reedy, Alfred F., assignor.)
Abel, Henry W., Brillion, Wis. Animal trap. 1,785,664; Dec. 16.
Aborn, Bertrand L., Belfast, Me. Rotary saw. 1,785,065; Dec. 16.
Adams, Edward C., Washington, D. C. Fluid-conduit device. 1,784,980; Dec. 16.
Adams, Mathias J., assignor of one-fourth to Adams Patent Wheel Co., Turkey River Iowa. Wagon. 1,785,717; Dec. 16.
Adams, Mathias J., and P. P. Adams, Turkey River, Iowa, assignors of one-fourth to Adams Patent Wheel Co., Turkey River, Iowa. Spoke. 1,785,171; Dec. 16.
Adams Patent Wheel Co. (See Adams, Mathias J., assignor.)
Adams Patent Wheel Co. (See Adams, Mathias J. and P. P., assignors.)
Adams, Peter P. (See Adams, Mathias J. and P. P.)
Adams, Peter P., Turkey River, Iowa. Front-wheel guide and brake. 1,785,172; Dec. 16.
Adams, William J., Santa Cruz, assignor to Ball Wagon Grader Company, Stockton, Calif. Scraper-bowl construction. 1,785,106; Dec. 16.
Adler, Howard, and G. A. McDonald, Chicago Heights, assignors to Victor Chemical Works, Chicago, Ill. Seed fungicide and disinfectant. 1,785,472; Dec. 16.
Adler, Howard, and G. A. McDonald, Chicago Heights, Ill., assignors to Victor Chemical Works. Granular calcium phosphate. 1,785,473; Dec. 16.
Advance-Rumely Company. (See Secor, John A., assignor.)
Agnell, Carl L., Chicago, Ill. Flower urn. 1,785,430; Dec. 16.
Aktiebolaget Svenexport. (See Dockl, Johann, assignor.)
Albert, Ruth F., New York, N. Y. Garment. 1,785,066; Dec. 16.
Alden, Milton, Springfield, Mass., assignor, by mesne assignments, to R. S. Allyn, New York, N. Y. Support for vacuum tubes. 1,785,239; Dec. 16.
Aldrich, Alonzo, Beloit, Wis. Stuff pump. 1,785,687; Dec. 16.
Aldrich, Alonzo, Beloit, Wis. Guideway for reciprocating engines, pumps, or the like. 1,785,688; Dec. 16.
Alexander, B. F. (See Cundiff, Kenneth K., assignor.)
Allen, Arthur P., Burlingame, Calif. Treating wood. 1,785,571; Dec. 16.
Allen, Frank B., Lower Merion Township, Montgomery County, Pa., assignor to The Allen-Sherman-Hoff Company. Storing and removing refuse. 1,785,539; Dec. 16.
Allen, John W., Fresno, Calif. Advertising device. 1,785,474; Dec. 16.
Allen, Joseph W., Dayton, Ohio. Electrical thermometer. 1,784,922; Dec. 16.
Allen-Sherman-Hoff Company, The. (See Allen, Frank B., assignor.)
Allied Products Corporation. (See Richard, Clement C., assignor.)
Alligator Company, The. (See Hessler, Arthur, assignor.)
Alling, George E., & Sons. (See Grilley, Ernest M., assignor.)
Allyn, Robert S. (See Alden, Milton, assignor.)
Alma Manufacturing Company, of Baltimore City. (See Frank, Leon, assignor.)
Alma Manufacturing Company of Baltimore City. (See Kerngood, Allen H., assignor.)
Alvey Manufacturing Company. (See Reichle, Carl J., assignor.)
Alvistur, Oscar, Oakland, Calif. Apparatus for releasing glider planes. 1,784,954; Dec. 16.
American Bemberg Corporation. (See Hofmann, Hugo, assignor.)
American Blower Corporation. (See Morse, C. T., and Hogan, assignors.)
American Cyanamid Company. (See Buchanan, Guy H., assignor.)
American Electrical Works. (See Busey, Herbert S., assignor.)
American Flexible Shaft Manufacturing Corporation. (See Hasemann, John L., assignor.)
American Manganese Steel Company. (See Fahrenwald, Frank A., assignor.)
American Metal Company. (See Burkey, H. M., and Ogden, assignors.)
American Patents Corporation. (See Hoge, J. R., and Soubier, assignors.)
American Patents Corporation. (See Soubier, L. D., and Carl, assignors.)
American Rolling Mill Company, The. (See Jacoby, Arthur B., assignor.)
American Sheet and Tin Plate Company. (See McQuiston, Jesse T., assignor.)
American Telephone and Telegraph Company. (See Dean, S. W., and Anderson, assignors.)
American Telephone and Telegraph Company. (See Gary, L. A., and Tasker, assignors.)
American Telephone and Telegraph Company. (See Morency, George H., assignor.)
American Turpentine & Tar Company et al. (See Smith, Eugene B.)
Anderson, Clifford N. (See Dean, S. W., and Anderson.)
Anderson, Earl R. (See Thompson, A. R., and Anderson.)
Anderson, Earl R., Los Angeles, assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif. Fruit pitter. 1,784,998; Dec. 16.
Anderson, Earl R., Los Angeles, assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif. Fruit-pitting apparatus. 1,784,999; Dec. 16.
Anderson, Rexford O., Seminole; U. S. Rudy, Oklahoma City; and B. M. Gessel, Tulsa, Okla. Cooling tower. 1,785,572; Dec. 16.
Andren, Birger T., assignor to A. O. Smith Corporation, Milwaukee, Wis. Attaching tapped nuts to metal plates. Re17,907; Dec. 16.
Apple, Vincent G., Dayton, Ohio. Dynamo-electric-machine element. 1,784,815; Dec. 16.
Apter, Saul, Cincinnati, Ohio. Traveling case. Des. 82,782; Dec. 16.
Archer, Merton T. (See Zerbe, L. E., and Archer.)
Arentzen, Einar M., assignor to Joy Manufacturing Company, Franklin, Pa. Artificial conveyer. 1,785,402; Dec. 16.
Armstrong, John A., Chicago, assignor to The Herman Nelson Corporation, Moline, Ill. Grille. Des. 82,778; Dec. 16.
Armstrong, John A., Chicago, assignor to The Herman Nelson Corporation, Moline, Ill. Grille. Des. 82,779; Dec. 16.
Armstrong, John A., Chicago, assignor to The Herman Nelson Corporation, Moline, Ill. Grille. Des. 82,780; Dec. 16.
Armstrong, John A., Chicago, assignor to The Herman Nelson Corporation, Moline, Ill. Grille. Des. 82,781; Dec. 16.
Aronson, Peter A., Rivercliffe, Devon, Conn., assignor to Hookless Fastener Company, Meadville, Pa. Separable fastener. 1,785,240; Dec. 16.
Aseltine, Ethan E., St. Albans, Vt. Merchandise carrier. 1,785,665; Dec. 16.
Astrom, Carl P., East Orange, N. J., assignor to M. H. Treadwell Company, New York, N. Y. Hot-metal car. 1,785,292; Dec. 16.
Atlas Powder Company. (See Pratt, Carl D., assignor.)
Automatic Molding Machine Corporation. (See Morris, T. O., and Lawlor, assignors.)
Automobile Radio Corporation. (See Heina, William M., assignor.)
Autostrop Safety Razor Company. (See Gaisman, Henry J., assignor.)
Babb, Edwin, Aultman, Ohio, assignor, by mesne assignments, to National Fireproofing Corporation, Pittsburgh, Pa. Conduit. 1,785,403; Dec. 16.
Babcock & Wilcox Company, The. (See Black, John E., assignor.)
Babcock & Wilcox Company, The. (See Kerr, Howard J., assignor.)
Bachelder, Frank H., Orange, Mass. Tool cabinet. 1,785,666; Dec. 16.
Baender, Fred G., trustee. (See Nelson, O. J., and Baender, assignors.)
Baender, Frederick G. (See Nelson, O. J., and Baender.)
Bailey, William B., Olympia, Wash. Threshold weatherstrip. 1,785,431; Dec. 16.
Baker Oil Tools, Inc. (See Baker, Reuben C., assignor.)
Baker, Perkins, Limited. (See Harris, Richard A., assignor.)
Baker, Reuben C., Coalinga, Calif., assignor to Baker Oil Tools, Inc. Screen plug for core barrels. 1,784,886; Dec. 16.
Ball Wagon Grader Company. (See Adams, William J., assignor.)
Ballard, Howard A., Clarksburg, Calif. Portable irrigation head gate. 1,784,955; Dec. 16.
Barber-Colman Company. (See Colman, Howard D., assignor.)

Barclay, William R., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe support. 1,784,923; Dec. 16.

Barlow, Lester P., Detroit, Mich. Fuel-feed system for internal-combustion engines of automobiles. 1,785,573; Dec. 16.

Barnes, Carl C., Portland, Oreg. Skimmer. 1,785,689; Dec. 16.

Barrett, Glenn J., Evanston, assignor to Portable Adding Machine Company, Chicago, Ill. Adding machine. 1,784,862; Dec. 16.

Barrett, Harold J., Wilmington, Del., assignor, by mesne assignments, to The Grasselli Chemical Company, Cleveland, Ohio. Soldering flux. 1,785,173; Dec. 16.

Bartholomew, Cassius M., Columbus, Ohio. Toothpick holder. 1,785,107; Dec. 16.

Bassett, Henry L., assignor to Columbus Handle and Tool Corporation, Columbus, Ind. Tool handle. 1,785,608; Dec. 16.

Bastien, Paul, Indianapolis, Ind. Engine. 1,785,108; Dec. 16.

Bates, Mortimer F., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Dead-reckoning tracer. 1,785,241; Dec. 16.

Baum, Isaac A., Chicago, Ill. Doorframe. 1,785,174; Dec. 16.

Baum, Seymour L., New Rochelle, N. Y., assignor to General Electric Company. Protective system. 1,785,718; Dec. 16.

Baumann, George, Brooklyn, N. Y. Lady's hand bag. 1,785,609; Dec. 16.

Beatty, Stanley, Highland, N. Y. Brake mechanism. 1,785,432; Dec. 16.

Becker, Arman E., Newark, and R. G. Sloane, Elizabeth, N. J., assignors to Standard Oil Development Company. Reclaiming residues. 1,785,242; Dec. 16.

Beebe, Paul, Los Angeles, Calif., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Treatment for liners. 1,785,667; Dec. 16.

Behle, Joseph, assignor to The Murray Company, Dallas, Tex. Breast lifter for gins. 1,785,109; Dec. 16.

Behrman, Abraham S., Chicago, Ill. Separator plate. 1,784,981; Dec. 16.

Beim, Nels C., Minneapolis, Minn. Lubricant and producing the same. 1,784,809; Dec. 16.

Belden, Edward H., assignor to Belden Patents Incorporated, Toledo, Ohio. Two-cycle V motor. 1,785,175; Dec. 16.

Belden Patents Incorporated. (See Belden, Edward H., assignor.)

Belin, Edouard, Paris, France. Optical recording device for telegraphic signaling. 1,785,610; Dec. 16.

Bell Telephone Laboratories, Incorporated. (See Dudley, Homer W., assignor.)

Bell Telephone Laboratories, Incorporated. (See Elmen, Gustaf W., assignor.)

Bell Telephone Laboratories, Incorporated. (See Flanders, Paul B., assignor.)

Bell Telephone Laboratories, Incorporated. (See Hubbard, Frank A., assignor.)

Bell Telephone Laboratories, Incorporated. (See Keller, Arthur C., assignor.)

Bell Telephone Laboratories, Incorporated. (See Marrison, Warren A., assignor.)

Bell Telephone Laboratories, Incorporated. (See Morrison, Louis A., assignor.)

Bell Telephone Laboratories, Incorporated. (See Peterson, Eugene, assignor.)

Bell Telephone Laboratories, Incorporated. (See Taylor, Hugh S., assignor.)

Bell Telephone Laboratories, Incorporated. (See Wente, Edward C., assignor.)

Bell Telephone Laboratories, Incorporated. (See White, John H., assignor.)

Bell Telephone Laboratories, Incorporated. (See Whittle, Horace, assignor.)

Bell Telephone Laboratories, Incorporated. (See Wiebusch, Charles F., assignor.)

Belz, Charles A., Arcola, Pa. Combined compressed-air hose and air-pressure gauge. 1,785,110; Dec. 16.

Bemis, Albert F., Newton, assignor to Bemis Industries, Inc., Boston, Mass. Building. 1,785,067; Dec. 16.

Bemis Industries, Inc. (See Bemis, Albert F., assignor.)

Benjamin, Edward O., Newark, N. J. Distilling apparatus and method. 1,784,956; Dec. 16.

Berg, Hans, Grand Rapids, Mich. Radiocabinet. Des. 82,783; Dec. 16.

Bergé, Julien, assignor to Raffinerie Tirlemontoise Societe Anonyme, Tirlemont, Belgium. Curing masseculte. 1,784,982; Dec. 16.

Bergquist, Charles H., assignor of one-half to E. A. Locke, Okmulgee, Okla. Counterbalance. 1,785,668; Dec. 16.

Bergquist, Charles H., assignor of one-half to E. A. Locke, Okmulgee, Okla. Counterbalance. 1,785,669; Dec. 16.

Berner, Leo, South Milwaukee, and P. Lohr, Milwaukee, Wis. Internal-combustion engine. 1,785,176; Dec. 16.

Berry, Levi H., Joplin, Mo. Gas-heating manifold. 1,784,924; Dec. 16.

Bethlehem Steel Company. (See Kichline, Frank O., assignor.)

Better Packages, Inc. (See Sutherland, Daniel M., jr., assignor.)

Betts, Philander H., Belmar, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric wave transmission system. 1,784,957; Dec. 16.

Bewley, Edson P., Santa Cruz, Calif. Brake-testing machine. 1,785,243; Dec. 16.

Bichele, Charles S., assignor to J. Milhening, Inc., Chicago, Ill. Scarfpin. Des. 82,784; Dec. 16.

Bichele, Charles C., assignor to J. Milhening, Inc., Chicago, Ill. Scarfpin. Des. 82,785; Dec. 16.

Bichele, Charles S., assignor to J. Milhening, Inc., Chicago, Ill. Scarfpin. Des. 82,786; Dec. 16.

Bichele, Charles S., assignor to J. Milhening, Inc., Chicago, Ill. Scarfpin. Des. 82,787; Dec. 16.

Bichele, Charles S., assignor to J. Milhening, Inc., Chicago, Ill. Scarfpin. Des. 82,788; Dec. 16.

Bichele, Charles S., assignor to J. Milhening, Inc., Chicago, Ill. Scarfpin. Des. 82,789; Dec. 16.

Bigoney, Thomas W., Philadelphia, Pa. Grater. 1,785,244; Dec. 16.

Bissell, Richard E. (See Miller, C. W., and Bissell.)

Bitner, John S., assignor to Wayne Novelty and Publishing Company, Fort Wayne, Ind. Flagstaff holder. 1,785,509; Dec. 16.

Black, George E., Sewickley, assignor to H. H. Robertson Company, Pittsburgh, Pa. Ventilator. 1,785,540; Dec. 16.

Black, John E., Rumson, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Air heater. 1,785,334; Dec. 16.

Black, William C., Dudley, England, assignor to M. S. Moore, Brussels, Belgium. Coal-cutting machine and the like. 1,785,574; Dec. 16.

Blackinton, George W., assignor to Continental Motors Corporation, Detroit, Mich. Shock absorber. 1,785,510; Dec. 16.

Blackman, Albert E., Mount Vernon, N. Y. Mail box. 1,785,404; Dec. 16.

Blake, Anson S. (See Symmes, Whitman, assignor.)

Blake, David K., Scotia, N. Y., assignor to General Electric Company. Control system. 1,785,611; Dec. 16.

Blake, David K., Scotia, N. Y., assignor to General Electric Company. System of electric distribution. 1,785,612; Dec. 16.

Blake, David K., Scotia, N. Y., assignor to General Electric Company. Automatic control system. 1,785,719; Dec. 16.

Blake, David K., Scotia, N. Y., assignor to General Electric Company. System of electric distribution. 1,785,720; Dec. 16.

Blake, David K., Scotia, N. Y., assignor to General Electric Company. System of electric distribution. 1,785,721; Dec. 16.

Blake, David K., Scotia, N. Y., assignor to General Electric Company. Control system. 1,785,722; Dec. 16.

Bleecker, George W., et al., trustee. (See Martin, Laurence C., assignor.)

Bliven, Charles H., Norfolk, Va. Shut-off valve. 1,785,475; Dec. 16.

Blosser, Herman G., Pittsburgh, and R. A. McCann, assignors to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,784,816; Dec. 16.

Blume, Louis F., Pittsfield, Mass., assignor to General Electric Company. Ratio-adjusting switch. 1,785,575; Dec. 16.

Blumenthal, Julius J., assignor to Lighting Appliance Company, Inc., New York, N. Y. Lighting-fixture bracket or article of similar nature. Des. 82,790; Dec. 16.

Blumer, James, Norwalk, Conn. Saw vise. 1,785,613; Dec. 16.

Boden, George, assignor to Scovill Manufacturing Company, Waterbury, Conn. Paper clip. 1,785,511; Dec. 16.

Body, Joseph J. and R. A., Dante, Va. Mine-car dump-registering means. 1,785,433; Dec. 16.

Body, Rebecca A. (See Body, Joseph J. and R. A.)

Boecher, Elizabeth. (See Lorenz, C., and Boecher.)

Boktlund, Harry A., assignor to Shakespeare Company, Kalamazoo, Mich. Fishing reel. Des. 82,791; Dec. 16.

Bollock, John G., Hastings, Nebr. Safety device for pneumatic hammers. 1,785,177; Dec. 16.

Bonifacio, Harry. (See Campau, Julian G., assignor.)

Bonney, Robert D., Glen Ridge, N. J., and W. Y. Irwin, jr., Moores, Pa., assignors to Congoleum-Nairn, Inc. Floor covering. 1,784,810; Dec. 16.

Borton, George W., New Lisbon, N. J., assignor to Pennsylvania Crusher Company, New York, N. Y. Coal breaker. 1,784,983; Dec. 16.

Bosley, D. W., Company, The. (See Bosley, Maurice E., assignor.)

Bosley, Maurice E., assignor to The D. W. Bosley Company, Chicago, Ill. Weather strip. 1,785,476; Dec. 16.

Both, Tonjes A., Stratford, assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn. Electric switch. 1,785,068; Dec. 16.

Boudette, Cornelius G., Claremont, N. H., assignor to Sullivan Machinery Company. Adjustable jack. 1,785,069; Dec. 16.

Bowman, Frederick J., assignor to The Grasselli Chemical Company, Cleveland, Ohio. Wall for reaction towers. 1,785,178; Dec. 16.

Bowman, Kiel B., Massillon, assignor, by mesne assignments, to Republic Steel Corporation, Youngstown, Ohio. Removal of lead coatings from metallic articles. 1,785,245; Dec. 16.

Boyd, Fisher L., Haverford, assignor, by mesne assignments, to National Foam System, Inc., Philadelphia, Pa. Apparatus for producing fire-extinguishing foam. 1,785,723; Dec. 16.

Boye Needle Company, The. (See Carlson, Gustav A., assignor.)

Boyer, Charles A., Tiggard, Oreg. Indicator. 1,785,614; Dec. 16.

Boyle, John, & Company. (See Markert, Frederick E., assignor.)

Braden, Alfred M. (See Bronson, A. E., and Braden.)

Bradley, Milton, Company. (See Wolfson, Harold M., assignor.)

Brandsma, Wiebold F., P. R. Dijksterhuis, G. J. Sizoo, and G. B. Jonas, Eindhoven, Netherlands, assignors to Radio Corporation of America. Magnetic material. 1,785,246; Dec. 16.

Brant, Clyde C., Terre Haute, Ind. Elapsed-time register for airplanes. 1,785,724; Dec. 16.

Bremforder, Ernest G. (See Wozniak, J., and Bremforder.)

Bresler, Louis L., assignor to H. T. Pollan, Chicago, Ill. Lock. 1,785,335; Dec. 16.

Bridgeman, Walter A., assignor to The Wilbur White Chemical Co., Owego, N. Y. Waterproofing of materials. 1,785,434; Dec. 16.

Brigham, Henry M., Brooklyn, assignor to John Chatillon & Sons, New York, N. Y. Spring scale. 1,785,541; Dec. 16.

Bristol Aeroplane Company. (See Frise, Leslie G., assignor.)

British Dyestuffs Corporation Limited. (See Shepherdson, A., and Thornley, assignors.)

Broderick, Frank W. (See Golinick, P. A., and Broderick.)

Brogden, Joab, Melrose Park, assignor to David Lupton's Sons Company, Philadelphia, Pa. Work table. Re17,901; Dec. 16.

Bronson, Adelbert E., Cleveland Heights, assignor to The Dill Manufacturing Company, Cleveland, Ohio. Hand grip and air connecter. 1,784,817; Dec. 16.

Bronson, Albert E., and A. M. Braden, Gibbs, Idaho, assignors to Union Iron Works, Spokane, Wash. Unstacking machine. 1,785,374; Dec. 16.

Brown & Bigelow. (See Fischer, Howard L., assignor.)

Brown, Carl D., assignor to Draper Corporation, Hopedale, Mass. Automatically-threading loom shuttle. 1,785,218; Dec. 16.

Brown, Carl D., assignor to Draper Corporation, Hopedale, Mass. Automatically-threading loom shuttle. 1,785,219; Dec. 16.

Brown, Carl D., assignor to Draper Corporation, Hopedale, Mass. Automatically-threading loom shuttle. 1,785,220; Dec. 16.

Brown, Carl D., assignor to Draper Corporation, Hopedale, Mass. Automatically-threading loom shuttle. 1,785,221; Dec. 16.

Brown, Carl D., assignor to Draper Corporation, Hopedale, Mass. Automatically-threading loom shuttle. 1,785,222; Dec. 16.

Brown Company. (See Richter, George A., assignor.)

Brown, Vere B., Brackenridge, Pa. Silicon steel. 1,784,811; Dec. 16.

Brunette, Joseph W., Fordson, Mich. Syringe attachment. 1,785,293; Dec. 16.

Brysselbout, Henri A., Detroit, Mich., assignor to Copeland Products, Inc. Refrigerating mechanism, 1,785,576; Dec. 16.

Buchanan, Guy H., Westfield, N. J., assignor to American Cyanamid Company, New York, N. Y. Ammonium-phosphate fertilizer composition and making the same. 1,785,375; Dec. 16.

Buckner, Irwin, Spokane, Wash. Orthopedic appliance. 1,785,376; Dec. 16.

Buffum, Thomas B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Apparatus for and method of testing cords. 1,785,690; Dec. 16.

Bullock, Fred J., assignor to Papec Machine Company, Shortsville, N. Y. Pulverizing mill. 1,785,435; Dec. 16.

Bump, Lewis C., Brandon, Vt. Game. 1,784,818; Dec. 16.

Bunch, Lewis E., Pampa, Tex. Combined mixing and flow device. 1,785,670; Dec. 16.

Burdette, Richard S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire flap. 1,785,691; Dec. 16.

Burgess, C. F., Laboratories, Inc. (See Weiss, Howard F., assignor.)

Burkey, Harvey M., Plainfield, and D. L. Ogden, Woodbridge, N. J., assignors to American Metal Company, Ltd., New York, N. Y. Recovery of metallic elements and alloys. 1,785,247; Dec. 16.

Burkhardt, Jacob, Detroit, Mich., assignor to Third Dimension Pictures, Inc., New York, N. Y. Moving-picture film and method of making. 1,785,330; Dec. 16.

Busey, Herbert S., Providence, assignor to American Electrical Works, Phillipsdale, R. I. Chuck for spooling or reeling machines. 1,785,248; Dec. 16.

Busse, Herbert R., Seattle, Wash. Indoor portable practice putting green. 1,784,863; Dec. 16.

Buttenheim, Harold S., Brooklyn, N. Y. Cleaner for shoe linings. 1,785,512; Dec. 16.

Butz, Walter D., Norristown, Pa. Stocking. Des. 82,792; Dec. 16.

Butz, Walter D., Norristown, Pa. Stocking. Des. 82,793; Dec. 16.

Butz, Walter D., Norristown, Pa. Stocking. Des. 82,794; Dec. 16.

Butz, Walter D., Norristown, Pa. Stocking. Des. 82,795; Dec. 16.

Butz, Walter D., Norristown, Pa. Stocking. Des. 82,796; Dec. 16.

Byer-Rolnick Company. (See Rolnick, Harry, assignor.)

Calcott, William S., Penns Grove, N. J., and I. E. Lee, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Solvent inhibitor for the acid treatment of metals. 1,785,513; Dec. 16.

Calhoon, Tilmon J., Franklin, Ill. Quickly attaching and detaching tractor-wheel cleats or lugs. 1,784,958; Dec. 16.

California Crushed Fruit Corporation. (See Crosby, Harry E., assignor.)

Calvird, Arthur E., Farmington, Mo. Tobacco can. 1,785,294; Dec. 16.

Campau, Emilie J., administratrix. (See Campau, Julian G.)

Campau, Julian G., deceased, assignor of one-fourth to H. Bonifacio, Monroe, Mich.; E. J. Campau, administratrix. Bolt and bushing therefor. 1,785,709; Dec. 16.

Campbell, Alvin R., Seattle, Wash. Pulley block. 1,784,925; Dec. 16.

Campbell, Robert F., Brooklyn, N. Y. Wrist-watch attachment. 1,784,887; Dec. 16.

Campbell, Wallace H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Rimming press. 1,785,671; Dec. 16.

Candee, Raphael R., McKittrick, and O. F. Harding, Coalinga, Calif. Core-drilling bit. 1,785,405; Dec. 16.

Caproni, Gianni, Rome, Italy. Fuselage fitting. 1,785,615; Dec. 16.

Carbide & Carbon Chemicals Corporation. (See Young, Charles O., assignor.)

Carborundum Company, The. (See Hawke, Clarence E., assignor.)

Carborundum Company, The. (See Walker, P. H., and Kenyon, assignors.)

Cardone, Frank. (See Maccarone, Fred, assignor.)

Carl, Edwin J. (See Soubier, L. D., and Carl.)

Carlin, Bernard, Pensacola, Fla. Equalizing system for four-wheel brakes. 1,785,179; Dec. 16.

Carlson, Gustav A., assignor to The Boye Needle Company, Chicago, Ill. Closure-removing device. 1,785,436; Dec. 16.

Carpenter, Harry B. (See Weaver, Eugene L., assignor.)

Carter, John W., Neillsville, Wis. Automatic weather strip for doors. 1,785,672; Dec. 16.

Carter, William C., Flint, Mich. Carburetor. 1,784,864; Dec. 16.

Case Research Laboratory Incorporated. (See Case, Theodore W., assignor.)

Case, Theodore W., assignor to Case Research Laboratory Incorporated, Auburn, N. Y. Inductive light source. 1,785,070; Dec. 16.

Cashel, John A., Worthington, Minn. Aeroplane. 1,785,295; Dec. 16.

Cattran, Charles, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Printing roller. 1,785,673; Dec. 16.

Caughlan, Walter M. (See Isaacson, F., and Caughlan.)

Chandler, Ernest A., and J. H. McCann, assignors of one-third to I. S. Wampler, Nashville, Tenn. Drop-door oven. 1,785,514; Dec. 16.

Chatillon, John, & Sons. (See Brigham, Henry M., assignor.)

Checker Cab Manufacturing Company, The. (See Johnson, Roy W., assignor.)

Chicago Forging & Manufacturing Co. (See Gilmore, Charles B., assignor.)

Chicago Railway Equipment Company. (See Ekholm, Herbert W., assignor.)

Chicago & Railway Equipment Company. (See Walker, Charles L., assignor.)

Chodorov, Frank, et al. (See Robischon, Ernest W., assignor.)

Christensen, Anders E., Mayfield Heights, Ohio. Line level. 1,785,296; Dec. 16.

Christenson, George, North Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Swivel-joint packing. 1,784,926; Dec. 16.

Cinch Manufacturing Corporation. (See Kimbell, Arthur W., assignor.)

Clark, Leon H., and W. S. Sengpiel, assignors to The Sikes Company, Philadelphia, Pa. Chair. 1,785,337; Dec. 16.

Cleveland Folding Machine Company, The. (See Tufts, L. R., and Olson, assignors.)

Clifford, Albert M., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Antioxidant or age resister. 1,785,692; Dec. 16.

Cloud, Wilbur D., New York, assignor to General Railway Signal Company, Rochester, N. Y. Train control. 1,785,693; Dec. 16.

Coates, Wallace R., et al. (See Steele, Carmi J., assignor.)

Coberly, Clarence J., assignor to Kobe, Incorporated, Los Angeles, Calif. Producing taper-slotted pipe. 1,785,071; Dec. 16.

Cochard, Louis, Napa, Calif. Lifeboat. 1,784,819; Dec. 16.

Cochran, Ralf S., assignor to The Surface Combustion Co., Incorporated, Toledo, Ohio. Furnace and conveyer therefor. 1,784,812; Dec. 16.

Cohen, Joseph H., Bridgeport, Conn. Electrical switch. 1,784,820; Dec. 16.
Cohen, Louis, Washington, D. C. Electric signaling. 1,785,297; Dec. 16.
Cole, Samuel I., Brooklyn, N. Y. Condenser casing. Des. 82,797; Dec. 16.
Coleman, George B., Detroit, Mich. Torque-impulse multiplier. 1,785,338; Dec. 16.
Colgate-Palmolive-Peet Company. (See Schwantes, Julius A., assignor.)
Colledge, Edward W., trustee. (See Smith, Eugene B., assignor.)
Colman, Howard D., assignor to Barber-Colman Company, Rockford, Ill. Lacing machine. 1,784,984; Dec. 16.
Colorado Iron Works Company. (See Dickson, Thomas A., assignor.)
Columbia Phonograph Company. (See Hinckley, Frank C., assignor.)
Columbus Handle and Tool Corporation. (See Bassett, Henry L., assignor.)
Commercial Shearing & Stamping Company, The. (See Proctor, Robert V., assignor.)
Congoleum-Nairn, Inc. (See Bonney, R. D., and Irwin, assignors.)
Connecticut Electric Manufacturing Company, The. (See Both, Tonjes A., assignor.)
Continental Motors Corporation. (See Blackinton, George W., assignor.)
Continental Motors Corporation. (See Niven, Archie M., assignor.)
Continental Oil Company. (See Miller, Walter, assignor.)
Coogan Concrete Machinery Company Ltd. (See Coogan, Stephen H., assignor.)
Coogan, Stephen H., assignor to Coogan Concrete Machinery Company Ltd., Elsinore, Calif. Machine for making concrete pipes. 1,785,298; Dec. 16.
Coon, Oscar M., Lubbock, Tex. Fuel burner. 1,784,927; Dec. 16.
Cooney, Thomas F., Las Cruces, N. Mex. Airplane. 1,785,477; Dec. 16.
Cooper, Elisha H. (See Searles, R. R., and Cooper.)
Cooper, James F., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Fabric for breather bags. 1,785,674; Dec. 16.
Cooper, William D., St. Paul, Minn. Telegraphic transmitting instrument. 1,785,072; Dec. 16.
Copeland Products, Inc. (See Brysselbout, Henri A., assignor.)
Copeland Products, Inc. (See Litle, Thomas J., jr., assignor.)
Cornett, Robert M., Kansas City, Mo. Screw-thread cleaner. 1,785,406; Dec. 16.
Corporon, George J., Portland, Me. Table-leg latch. 1,785,616; Dec. 16.
Corson, Harry P., Lakewood, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Flux for use in soldering. 1,785,180; Dec. 16.
Corson, Harry P., Lakewood, and E. S. Ridler, Shaker Heights, assignors to The Grasselli Chemical Company, Cleveland, Ohio. Soft soldering flux. 1,785,181; Dec. 16.
Coulston, Earl V., Shaker Heights, Ohio. Base member for use with cooking vessels. 1,785,182; Dec. 16.
Couture, Marie G., Concord, N. H. Measuring harness. 1,784,888; Dec. 16.
Couture, Marie G., Concord, N. H. Pattern-cutting harness. 1,784,889; Dec. 16.
Cowburn, Frederick C., Gosport, England. Roller bearing. 1,785,617; Dec. 16.
Cox, George D., Philadelphia, Pa. Memorandum ticket for telephone service. 1,784,813; Dec. 16.
Cox, George D., Philadelphia, Pa. Telephone-installer's omnibus number sign card. 1,784,814; Dec. 16.
Crane Co. (See Spring, Laverne W., assignor.)
Crickner, Charles S., assignor to Tridex Corporation, Dallas, Tex. Handle. 1,785,111; Dec. 16.
Cronk, Howard. (See Hoes, J. W., and Cronk.)
Crosby, Harry E., Huntington Park, assignor to California Crushed Fruit Corporation, Los Angeles, Calif. Beverage dispenser. Des. 82,798; Dec. 16.
Cross, Walter M., Kansas City, Mo., assignor, by mesne assignments, to Gasoline Products Company, Inc., Wilmington, Del. Treating petroleum oils. 1,785,073; Dec. 16.
Crowley, John C., Cleveland Heights, assignor to The Dill Manufacturing Company, Cleveland, Ohio. Connecting device for fluid-pressure hose. 1,784,821; Dec. 16.
Crowley, John C., Cleveland Heights, assignor to The Dill Manufacturing Company, Cleveland, Ohio. Air chuck. 1,784,822; Dec. 16.
Crown Stove Works. (See Rogers, Walter F., assignor.)
Cruikshank, Ross T., Minneapolis, Minn. Pump jack. 1,784,823; Dec. 16.
Culin, Alice, New York, N. Y. Ash tray. Des. 82,799; Dec. 16.
Cundiff, Kenneth K., assignor of one-half to B. F. Alexander, Tulsa, Okla. Vacuum cleaner. 1,785,679; Dec. 16.
Currie, William E., Lake Jovita, Fla., and P. de Vries, Detroit, Mich., said P. de Vries assignor to W. E. Currie. Cattle stanchion. 1,784,890; Dec. 16.
Curtin-Howe Corporation. (See Curtin, Leo P., assignor.)
Curtin, Leo P., Freehold, N. J., assignor to Curtin-Howe Corporation. Fungicidal and insecticidal composition and preparing same. 1,785,074; Dec. 16.
Dailey, Roy R., Colorado Springs, Colo. Rock conveyer. 1,785,249; Dec. 16.
Dake, Charles W., assignr to The Pyle-National Company, Chicago, Ill. Brush holder for electrical machines. 1,785,183; Dec. 16.
Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Distribution valve. 1,785,184; Dec. 16.
Daland, Elliot, Torresdale, assignor to Keystone Aircraft Corporation, Bristol, Pa. Shock absorber for landing gears of airplanes. 1,785,339; Dec. 16.
Dalton, Hubert, Stanford, Conn. Smoker's stand. Des. 82,800; Dec. 16.
Damp, Ralph E. (See Shaner, G. A., Damp, and Donovan.)
Danielson, Charles, assignor to Ericson-Nelson Manufacturing Company, Minneapolis, Minn. Folding ironing table. 1,784,959; Dec. 16.
Davies, Caleb, jr., Poland, Ohio. Apparatus for gasifying coal and the like. 1,784,985; Dec. 16.
Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Automatically-threading loom shuttle. 1,785,225; Dec. 16.
Davis, Louis E., Seminole, Okla. Well-fishing tool. 1,785,299; Dec. 16.
Day, J. H., Company, The. (See Schiff, Sigmund, assignor.)
Day, J. H., Company, The. (See Tellefsen, Theodore J., assignor.)
Day, James C., South Orange, assignor to The Whitehead and Hoag Company, Newark, N. J. Button receptacle. 1,785,186; Dec. 16.
Day, Jeremiah C., Lexington, Ky. Bunion corrector. 1,785,185; Dec. 16.
Day, Salisbury M., assignor to General Railway Signal Company, Rochester, N. Y. Copper-carbon contact. 1,785,618; Dec. 16.
Day, Salisbury M., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Color-light signal. 1,785,694; Dec. 16.
Deakides, Nicholas, Athens, Ga. Toy. Des. 82,801; Dec. 16.
Dean, Samuel W., Brooklyn, and C. N. Anderson, New York, N. Y., assignors to American Telephone and Telegraph Company. Privacy-signaling system. 1,784,891; Dec. 16.
Dean, Stuart, Indianapolis, Ind. Combination drive and oil pump. 1,785,112; Dec. 16.
De Boer, John H., Syracuse, N. Y. Bed stay. 1,785,075; Dec. 16.
Deere and Company. (See Paul, William L., assignor.)
De Forest, Lee, New York, N. Y., and R. Halpenny, Washington, D. C., assignors, by mesne assignments, to General Talking Pictures Corporation. Loud-speaker. 1,785,377; Dec. 16.
De Freudenreich, Jean. (See Noack, W. G., and de Freudenreich.)
Delaney, Edward L., assignor to I. A. Delaney, Elyria, Ohio. Draftsman's fountain and lettering pen. 1,785,478; Dec. 16.
Delaney, Irene A. (See Delaney, Edward L., assignor.)
De la Torre, Francisco, Chicago, Ill. Combination pencil. 1,785,187; Dec. 16.
De La Tour Castelcicala, Filiberto, Rome, Italy. Rolling apron for airplane wings. 1,785,300; Dec. 16.
De Laval Separator Company, The. (See Wright, Bert R., assignor.)
De Long, Bertha S., Minneapolis, Minn. Garment. 1,784,824; Dec. 16.
De Long, Charles E., assignor to Sangamo Electric Company, Springfield, Ill. Electrically-wound clock. 1,785,301; Dec. 16.
De Mattia, Barthold, Clifton, N. J., assignor, by mesne assignments, to National Rubber Machinery Company, Akron, Ohio. Collapsible core. 1,784,960; Dec. 16.
Depfer, George M. F. (See White, H. E., and Depfer.)
De Vries, Peter. (See Currie, W. E., and de Vries.)
De Yone, Charles M., Dover-Foxcroft, Me. Hilling attachment for cultivators. 1,785,676; Dec. 16.
Dickinson, Joseph H., Winter Park, Fla., and M. H. Dickinson, Seattle, Wash., assignors to Lidgerwood Manufacturing Company, Elizabeth, N. J. Portable cableway. 1,785,340; Dec. 16.
Dickinson, Merian H. (See Dickinson, Joseph H. and M. H.)
Dickson, Thomas A., assignor to Colorado Iron Works Company, Denver, Colo. Ore classifier. 1,785,302; Dec. 16.
Dictaphone Corporation. (See Frykman, Victor L., assignor.)
Dietze, Richard. (See Rupprecht, K., and Dietze.)
Dijksterhuis, Popko R. (See Brandsma, W. F., Dijksterhuis, Sizoo, and Jonas.)
Dill Manufacturing Company, The. (See Bronson, Adelbert E., assignor.)
Dill Manufacturing Company, The. (See Crowley, John C., assignor.)
Disney, Walter E., Los Angeles, Calif. Toy or similar article. Des. 82,802; Dec. 16.
Dockl, Johann, Graz, Austria, assignor to Aktiebolaget Svaeaexport, Stockholm, Sweden. Weighing device for dial balances. 1,785,542; Dec. 16.

Doermann, Albert J., Chicago, Ill. Making abrasive disks. 1,785,437; Dec. 16.
Doheny-Stone Drill Co. (See Stone, Frederick and A. L., assignors.)
Doherty, Henry L. (See Loebell, Henry O., assignor.)
Dolan, Hugh, Pottsville, Pa. Windshield wiper. 1,785,113; Dec. 16.
Donnelly, R. R., & Sons Company. (See Frazier, Philip A., assignor.)
Donovan, George G. (See Shaner, G. A., Damp, and Donovan.)
Dornier, Claudius, assignor of one-half to the firm Dornier-Metallbauten, Gesellschaft mit beschränkter Haftung, Friedrichshafen-on-the-Bodensee, Germany. Metal propeller. 1,785,543; Dec. 16.
Dornier-Metallbauten, Gesellschaft mit beschränkter Haftung. (See Dornier, Claudius, assignor.)
Dorset, Marion, Washington, D. C. Vaccine for hog cholera and manufacturing the same. 1,784,928; Dec. 16.
Douglas, John F. H., assignor of one-half to E. W. Kane, Milwaukee, Wis. Dynamo-electric machine. 1,785,515; Dec. 16.
Dow Chemical Company, The. (See Griswold, Thomas, jr., assignor.)
Doyle, Francis A., and G. A. Lyons, Springfield, Mass. Airplane. 1,785,114; Dec. 16.
Draper, Clare H., assignor to Draper Corporation, Hopedale, Mass. Automatically-threading loom shuttle. 1,785,223; Dec. 16.
Draper Corporation. (See Brown, Carl D., assignor.)
Draper Corporation. (See Davis, Harry A., assignor.)
Draper Corporation. (See Draper, Clare H., assignor.)
Draper Corporation. (See Lindsjo, Verner, assignor.)
Draper Corporation. (See Schmid, Ferdinand A. F., assignor.)
Draper Corporation. (See White, H. E., and Depfer, assignors.)
Dravo Contracting Company, The. (See Edwards, V. B., and Wolfe, assignors.)
Dubilier Condenser Corporation. (See Dubilier, William, assignor.)
Dubilier, William, New Rochelle, assignor to Dubilier Condenser Corporation, New York, N. Y. Process and apparatus for making electric condensers. 1,785,479; Dec. 16.
Ducart, Guillaume, Paris, France. Gas heater for curling irons. 1,785,677; Dec. 16.
Duden, Emil G., Oakmont, Pa., assignor to Wm. B. Scaife & Sons Co. Fluid-treating apparatus. 1,784,892; Dec. 16.
Duden, Emil G., Oakmont, Pa., assignor to Wm. B. Scaife & Sons Company. Water-treating apparatus. 1,784,893; Dec. 16.
Dudley, Homer W., Teaneck, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Speech transmission. 1,784,825; Dec. 16.
Dufford, John R. (See Hough, A., Dufford, and Leonhard.)
Dumont, Frank A., Shelton, Wash. Airplane propeller. 1,784,894; Dec. 16.
Dumper, Thomas H., trustee. (See Haertel, Hans R., assignor.)
Duncan, Arthur L., Oakland, assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif. Apparatus for feeding, trimming, and cutting fruit preparatory to removing the pit therefrom. 1,785,000; Dec. 16.
Duncan, Arthur L., Oakland, assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif. Fruit-treating method and apparatus. 1,785,001; Dec. 16.
Duncan, Arthur L., Oakland, assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif. Fruit-pitting machine. 1,785,022; Dec. 16.
Duncan, Arthur L., Piedmont, assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif. Fruit pitting and coring apparatus. 1,785,002; Dec. 16.
Duncan, Arthur L., Piedmont, assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif. Fruit pitting and coring method and apparatus. 1,785,003; Dec. 16.
Duncan, Arthur L., Piedmont, assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif. Fruit pitting and coring apparatus. 1,785,004; Dec. 16.
Duncan, Arthur L., Piedmont, assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif. Fruit pitting and coring apparatus. 1,785,005; Dec. 16.
Duncan, Arthur L., Piedmont, assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif. Fruit pitting and coring method. 1,785,006; Dec. 16.
Duncan, Arthur L., Piedmont, assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif. Fruit pitting and coring mechanism. 1,785,007; Dec. 16.
Duncan, Arthur L., Piedmont, assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif. Method and apparatus for clearing fruit-pitting machines. 1,784,008; Dec. 16.
Duncan, Arthur L., Piedmont, assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif. Fruit-pitting machine. 1,785,009; Dec. 16.
Duncan, Arthur L., Piedmont, assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif. Pitting and coring machine. 1,785,010; Dec. 16.
Dunham, George W., assignor to Whirldry Corporation, Utica, N. Y. Laundry machine. 1,785,577; Dec. 16.
Dunham, George W., assignor to Whirldry Corporation, Utica, N. Y. Laundry machine. 1,785,578; Dec. 16.
Dunham, George W., New York, assignor to Whirldry Corporation, Utica, N. Y. Pumping mechanism for washing machines. 1,785,579; Dec. 16.
Dunker, Louis H. A., assignor to The Steel-Mesh Road Surface Company, Limited, Birmingham, England. Construction of roads and the like. 1,784,895; Dec. 16.
Dunnican, George W., Bloomfield, N. J., assignor to Dorothy Gray, Inc. Vanity case. 1,785,303; Dec. 16.
Duplate Corporation. (See Sherts, James H., assignor.)
Du Pont, E. I. de Nemours & Company. (See Calcott, W. S., and Lee, assignors.)
Dura Company, The. (See Graff, George, assignor.)
Durdin, Augustus C., jr., Chicago, Ill. Pumping apparatus for sewage and other liquids. 1,785,480; Dec. 16.
Dyke, Francis R., Dartmouth, Nova Scotia, Canada. Ash-dust eliminator. 1,785,481; Dec. 16.
Dykstra, Harry B., Wilmington, Del., assignor, by mesne assignments, to The Grasselli Chemical Company, Cleveland, Ohio. Soldering flux. 1,785,115; Dec. 16.
Eagle Pencil Company. (See Fischer, John H., assignor.)
Eames Company. (See Nielsen, Hans P., assignor.)
Eastern Tool and Manufacturing Company. (See Lorber, Charles, assignor.)
Eastman Kodak Company. (See Webber, C. S., and Staud, assignors.)
Easton, Henry P., jr., Nutley, N. J. Garment and fur steamer. 1,785,619; Dec. 16.
Eberhardt, Stanley L. H., London, England. Method of and apparatus for making tickets. 1,785,250; Dec. 16.
Eckersley, James E., Aberdeen, assignor of one-half to A. Polson, Hoquiam, Wash. Shingle and veneer cutting machine. 1,785,439; Dec. 16.
Eclipse Machine Company. (See Lansing, Raymond P., assignor.)
Eddystone Cement Corporation. (See Wilner, Elias R., assignor.)
Edgerton, Israel V., assignor to Palace Poultry Car Company, Chicago, Ill. Water tank for stock cars. 1,784,826; Dec. 16.
Edlin, Walter F., Union City, N. J. Nursing-bottle heater. 1,785,438; Dec. 16.
Edwards, Vere B., Moon Township, Allegheny County, and G. F. Wolfe, Coraopolis, Pa., assignors to The Dravo Contracting Company. Bridge-building apparatus. 1,785,023; Dec. 16.
Efcolite Corporation. (See von Nessen, Walter, assignor.)
Eisenberg, Semon, Savannah, Ga. Toothbrush. 1,784,986; Dec. 16.
Ekholm, Herbert W., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam structure. 1,784,896; Dec. 16.
Ekstedt, Gustaf M., Gottenborg, Sweden. Device to be used in teaching music. 1,785,440; Dec. 16.
Ekstrom, Gustaf H., Rockford, assignor to C. P. Parker, trustee, Evanston, Ill. Pad holder for rubbing machines. 1,785,695; Dec. 16.
Electrical Research Products Inc. (See Reynolds, John L., assignor.)
Electro Metallurgical Co. (See Udy, Marvin J., assignor.)
Electrons, Inc. (See Meyer, F., and Spanner, assignors.)
Elias, Albert I., Long Beach, assignor to Wise Shoes, Inc., New York, N. Y. Store front. Des. 82,804; Dec. 16.
Ellis, George H., St. Paul, assignor to The Insulite Company, Minneapolis, Minn. Process and apparatus for disintegrating wood. 1,785,544; Dec. 16.
Ellson, Horace S. (See Hansen, C., and Ellson.)
Elmen, Gustaf W., Leonia, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic material. 1,784,827; Dec. 16.
Enneking, Joseph J., Fort Thomas, Ky. Electric annunciator. 1,784,961; Dec. 16.
Erdmann, Robert H. M., Jamaica, N. Y. Superheater for boilers. 1,785,441; Dec. 16.
Ericson-Nelson Manufacturing Company. (See Danielson, Charles, assignor.)
Ericsson, Eric W., Brooklyn, N. Y. Safety razor. 1,785,545; Dec. 16.
Erie Malleable Iron Company. (See Metcalf, George R., jr., assignor.)
Ernst, August, Johnstown, N. Y. Tanning chamois, buckskins, or other leather. 1,784,828; Dec. 16.
Estoppey, Georges, Dayton, Ohio. Aerial navigation instrument. 1,784,929; Dec. 16.
Etheridge, Harry, Zelienople, Pa. Support for railway rails. 1,785,251; Dec. 16.
Eufinger, Peter, Frankfort-on-the-Main, assignor to P. Lancier, Munster, Germany. Underground-cable-pulling device. 1,784,829; Dec. 16.
Evans, Thomas D., Phoenixville, Pa. Boiler cleaner. 1,785,024; Dec. 16.
Everett, Edward A., New York, N. Y. Railway signal lamp. 1,785,516; Dec. 16.
F-N Company, The. (See Thompson, Lorenzo D., assignor.)

Fafnir Bearing Company, The. (See Searles, Raymond R., assignor.)
Fafnir Bearing Company, The. (See Searles, R. R., and Cooper, assignors.)
Fafnir Bearing Company, The. (See Smith, John W., assignor.)
Fahrenwald, Frank A., assignor to American Manganese Steel Company, Chicago Heights, Ill. Strain hardening manganese steel. 1,784,865; Dec. 16.
Fahrenwald, Frank A., assignor to American Manganese Steel Company, Chicago, Ill. Strain hardening steel. 1,784,866; Dec. 16.
Farrington, John F., Flushing, assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,784,867; Dec. 16.
Fassinger, Charles, assignor to Oliver Iron & Steel Corporation, Pittsburgh, Pa. Die mechanism. 1,785,116; Dec. 16.
Fehrle, Alfred. (See Streitwolf, K., and Fehrle.)
Felizianetti, Narsete, Los Angeles, assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif. Fruit-pitting machine. 1,785,011; Dec. 16.
Fellroth, Erick O., assignor to Martin Brothers Company, Minneapolis, Minn. Overalls. 1,785,580; Dec. 16.
Fellroth, Erick O., assignor to Martin Brothers Company, Minneapolis, Minn. Overgarment. 1,785,581; Dec. 16.
Felsenthal, Harold, assignor to Guarsteel Safety Stair Co., Chicago, Ill. Square tubing for newel posts. 1,785,025; Dec. 16.
Ferries, William D., assignor to Frantz Manufacturing Co., Sterling, Ill. Latch. Des. 82,805; Dec. 16.
Fesko, Thomas P., Ecorse, via Detroit, Mich. Convertible automobile body. 1,784,962; Dec. 16.
Fischer, Howard L., assignor to Brown & Bigelow, St. Paul, Minn. Perpetual calendar. Des. 82,806; Dec. 16.
Fischer, John H., assignor to Eagle Pencil Company, New York, N. Y. Compass or similar article. Des. 82,807; Dec. 16.
Fisher, Charles, deceased, New York, and C. D. Fisher, Beacon, N. Y.; L. S. Gatter, executor. Educational toy and display device. 1,785,442; Dec. 16.
Fisher, Charles D. (See Fisher, Charles and C. D.)
Fisher, Isaac W., Long Beach, Calif. Weed cutter. 1,785,443; Dec. 16.
Fisher, Robert W., assignor to P. Riess, Chicago, Ill. Luminous sign. 1,785,341; Dec. 16.
Fisher, Wilbur A., Temple, Tex. Condiment holder. Des. 82,808; Dec. 16.
Flanders, Paul B., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Mechanical impedance device. 1,784,830; Dec. 16.
Flett, William, Melrose, Mass., assignor to National Publishing Company, Philadelphia, Pa. Machine for making loose leaves for books. 1,785,546; Dec. 16.
Flintkote Company, The. (See Levin, Harold L., assignor.)
Flood, Leo P., Sunnyside, assignor to Mason Manufacturing Company, New York, N. Y. Duplex feeder for low-pressure heating boilers. 1,785,547; Dec. 16.
Florian, Frank, Chicago, Ill. Track sander for motor vehicles. 1,784,832; Dec. 16.
Flowers, Henry F., Findlay, Ohio. Dump vehicle with actuated doors. 1,785,678; Dec. 16.
Fonferek, Edward, Gillett, Wis. Antiskid chain. 1,785,117; Dec. 16.
Forbes, Kingston, Flint, assignor to General Motors Corporation, Detroit, Mich. Radiator cap. Des. 82,809; Dec. 16.
Fourness Development Corporation, The. (See Fourness, Wilfred, assignor.)
Fourness, Wilfred, Oakland, Calif., assignor to The Fourness Development Corporation, New York, N. Y. Compressor mechanism. 1,785,407; Dec. 16.
Fox Case Corporation. (See Sponable, Earl I., assignor.)
France, Antoine, Brussel, Belgium. Classifying apparatus. 1,785,679; Dec. 16.
Frank, Benjamin M., New York, assignor to Greenpoint Metallic Bed Co., Inc., Brooklyn, N. Y. Folding mattress. 1,785,252; Dec. 16.
Frank, John P., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,785,378; Dec. 16.
Frank, Leon, assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Apparel buckle. Des. 82,810; Dec. 16.
Frank, Leon, assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Apparel buckle. Des. 82,811; Dec. 16.
Frank, Leon, assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Apparel buckle. Des. 82,812; Dec. 16.
Frank, Leon, assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Apparel buckle. Des. 82,813; Dec. 16.
Frank, Leon, assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Apparel buckle. Des. 82,814; Dec. 16.
Frank, Leon, assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Apparel buckle. Des. 82,815; Dec. 16.
Frank, Leon, assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Apparel buckle. Des. 82,816; Dec. 16.
Frank, Leon, assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Apparel buckle. Des. 82,817; Dec. 16.
Frank, Leon, assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Apparel buckle. Des. 82,818; Dec. 16.
Frank, Leon, assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Apparel buckle. Des. 82,819; Dec. 16.
Frank, Leon, assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Apparel buckle. Des. 82,820; Dec. 16.
Franklin Simon & Company. (See Long, Dorothy, assignor.)
Frantz Manufacturing Co. (See Ferris, William D., assignor.)
Frazier, Philip A., assignor to R. R. Donnelley & Sons Company, Chicago, Ill. Rotatable indexing table. 1,785,408; Dec. 16.
Freshkoff, Vladimir, New York, N. Y. Brake-band-lining device. 1,785,076; Dec. 16.
Frise, Leslie G., assignor to The Bristol Aeroplane Company, Limited, Bristol, England. Control surface for aircraft, submersibles, and the like. 1,785,620; Dec. 16.
Fritz, Howard E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Cushioning anchorage device. 1,784,897; Dec. 16.
Fry, John W., Struthers, Ohio. Balancing spring. 1,785,118; Dec. 16.
Frykman, Victor L., assignor to Dictaphone Corporation, Bridgeport, Conn. Record-resurfacing machine. 1,785,409; Dec. 16.
Fulwiler, Arthur W., Highland Park, Mich., assignor to The Gwisdalla Floatless Carburetor Corporation. Carburetor. 1,785,026; Dec. 16.
Funalman, John S., Ashland, Ohio. Humidifying device for internal-combustion engines. 1,784,831; Dec. 16.
Funk, Ernest R. (See Ryan, E., and Funk.)
Furedy, Frank, Penn-Wynne, Pa. Pencil. Des. 82,821; Dec. 16.
G & O Manufacturing Company, The. (See Oppe, Charles, assignor.)
G. and W. Electric Specialty Company. (See Rah, Joseph, assignor.)
Gabor, Joseph, New York, N. Y. Attachable radiating element. 1,785,621; Dec. 16.
Gaisman, Henry J., New York, N. Y., assignor to Autostrop Safety Razor Company, Inc., New York, N. Y. Safety razor. 1,785,077; Dec. 16.
Galion Metallic Vault Company, The. (See Smith, Ralph E., assignor.)
Gammeter, William K., Cadiz, Ohio. Cover for registers and radiators. 1,785,253; Dec. 16.
Ganz, Leo, Chicago, Ill. Water heater. 1,785,304; Dec. 16.
Gary, Laurence A., San Francisco, and H. G. Tasker, Los Angeles, Calif., assignors to American Telephone and Telegraph Company. Circuit switch. 1,784,898; Dec. 16.
Gas Industries Company. (See Levin, Isaac H., assignor.)
Gasoline Products Company. (See Cross, Walter M., assignor.)
Gates, Leroy G. (See Hauk, John W., assignor.)
Gatler, L. Stewart, executor. (See Fisher, Charles and C. D.)
General Aniline Works, Inc. (See Mauthe, G., and Thauss, assignors.)
General Electric Company. (See Baum, Seymour L., assignor.)
General Electric Company. (See Blake, David K., assignor.)
General Electric Company. (See Blume, Louis F., assignor.)
General Electric Company. (See McLachlan, Willard J., assignor.)
General Electric Company. (See Merrill, Wilbur L., assignor.)
General Electric Company. (See Rupprecht, K., and Dietze, assignors.)
General Electric Company. (See Thompson, Louis W., assignor.)
General Electric Company. (See Weiske, P., and Rupprecht, assignors.)
General Electric Company. (See Winter, Fred H., assignor.)
General Motors Corporation. (See Forbes, Kingston, assignor.)
General Motors Corporation. (See Liebermann, Paul B., assignor.)
General Motors Corporation. (See Williams, James F., assignor.)
General Railway Signal Company. (See Cloud, Wilbur D., assignor.)
General Railway Signal Company. (See Day, Salisbury M., assignor.)
General Railway Signal Company. (See Howe, Winthrop K., assignor.)
General Railway Signal Company. (See Osborne, John L., assignor.)
General Railway Signal Company. (See Reichard, Wade H., assignor.)
General Railway Signal Company. (See Ross, Oscar A., assignor.)
General Railway Signal Company. (See Taylor, Herbert B., assignor.)

General Railway Signal Company. (See Wight, Sedgwick N., assignor.)
General Talking Pictures Corporation. (See de Forest, L., and Halpenny, assignors.)
George, Harman A., Petaluma, Calif. Switch. 1,784,930; Dec. 16.
Gephart, Harry F., Chicago, Ill. Fishing rod. 1,785,027; Dec. 16.
Gerber, Ralph, Raymond, Wash. Double end drive reverse clutch. 1,785,548; Dec. 16.
Gerlowski, Anthony, Chicago, Ill., assignor to The Rome Company, Inc. Connecting springs. 1,785,188; Dec. 16.
Gesellschaft für Drahtlose Telegraphie m. b. H. (See Schröter, Fritz, assignor.)
Gessel, Benjamin M. (See Anderson, R. O., Rudy, and Gessel.)
Giampaoli, Joseph G., Elkridge, Md. Automobile radiator shutter. 1,785,482; Dec. 16.
Gibson, Charles J., Greenville, Mich. Device for making shaped pieces of ice. 1,785,078; Dec. 16.
Gilbert, Henry J., assignor to Saginaw Manufacturing Co., Saginaw, Mich. Folding joint for braces and the like. 1,785,342; Dec. 16.
Gilbert, Henry J., assignor to Saginaw Manufacturing Co., Saginaw, Mich. Latch for folding braces. 1,785,343; Dec. 16.
Gilfillan, Dean M., et al. (See Lambert, William C., assignor.)
Gilkerson, Francis M., Beloit, Wis. Cushioned shoe. 1785,410; Dec. 16.
Gilmore, Carl, Oakland, Calif. Sheathing paper. 1,785,379; Dec. 16.
Gilmore, Charles B., assignor to Chicago Forging & Manufacturing Company, Chicago, Ill. Hood latch. 1,784,931; Dec. 16.
Gilson, Robert M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for the control of highway-crossing signals. 1,784,868; Dec. 16.
Gleason, C. Roy, Chicago, Ill. Tank for chromium plating. 1,784,987; Dec. 16.
Goldknopf, Abraham, New York, N. Y. Fountain pen. 1,785,680; Dec. 16.
Golinsk, Paul A., and F. W. Broderick, assignors, by mesne assignments, to Selectograph Company, Chicago, Ill. Recording device for addressing machines. 1,785,517; Dec. 16.
Goodrich, B. F., Company, The. (See Fritz, Howard E., assignor.)
Goodrich, B. F., Company, The. (See Jones, Paul C., assignor.)
Goodwin, Ernest G., Pelham, assignor to Standard Coupler Company, New York, N. Y. Cotter pin. 1,785,622; Dec. 16.
Goodyear Tire & Rubber Company, The. (See Beebe, Paul, assignor.)
Goodyear Tire & Rubber Company, The. (See Buffum, Thomas B., assignor.)
Goodyear Tire & Rubber Company, The. (See Burdette, Richard S., assignor.)
Goodyear Tire & Rubber Company, The. (See Campbell, Wallace H., assignor.)
Goodyear Tire & Rubber Company, The. (See Cattran, Charles, assignor.)
Goodyear Tire & Rubber Company, The. (See Clifford, Albert M., assignor.)
Goodyear Tire & Rubber Company, The. (See Cooper, James F., assignor.)
Goodyear Tire & Rubber Company, The. (See Mallory, Gerald D., assignor.)
Goodyear Tire & Rubber Company, The. (See Sebrell, L. B., and Teppema, assignors.)
Goodyear Tire & Rubber Company, The. (See Shively, Walter E., assignor.)
Goodyear Tire & Rubber Company, The. (See State, Will C., assignor.)
Goranson, David. (See Goranson, Hjalmar and D.)
Goranson, Hjalmar and D., San Jose, assignors, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif. Fruit pitter. 1,785,012; Dec. 16.
Gorjan, Elsa, Zagreb, Yugoslavia. Bathing shoe. 1,785,623; Dec. 16.
Gorsuch, Howard F., and A. S. Hughes, assignors to Hughes-Keenan Company, Mansfield, Ohio. Loader. 1,785,119; Dec. 16.
Goudard, Félix, Neuilly sur Seine, France. Carburetor. 1,785,681; Dec. 16.
Graff, George, assignor to The Dura Company, Toledo, Ohio. Motor-vehicle window-regulator handle. Des. 82,822; Dec. 16.
Grapp, Albert E., Minneapolis, Minn. Oven structure. 1,785,079; Dec. 16.
Grasselli Chemical Company, The. (See Barrett, Harold J., assignor.)
Grasselli Chemical Company, The. (See Bowman, Frederick J., assignor.)
Grasselli Chemical Company, The. (See Corson, Harry P., assignor.)
Grasselli Chemical Company, The. (See Corson, H. P., and Ridler, assignors.)
Grasselli Chemical Company, The. (See Dykstra, Harry B., assignor.
Grasselli Chemical Company, The. (See Lutz, George, assignor.)
Grasselli Chemical Company, The. (See McQuaid, Howard S., assignor.)
Grasselli Chemical Company, The. (See Monroe, Hanson H., assignor.)
Grasselli Chemical Company, The. (See Schweitzer, William K., assignor.)
Grasselli Chemical Company, The. (See Taylor, Edward A., assignor.)
Gray, Dorothy, Inc. (See Dunnican, George W., assignor.)
Gray, Frank, assignor to Western Electric Company, Incorporated, New York, N. Y. Rectifier. 1,784,869; Dec. 16.
Graybar Electric Company. (See Hetzner, Arthur E., assignor.)
Green, George, et al. (See Seidel, Morris, assignor.)
Greenpoint Metallic Bed Co. (See Frank, Benjamin M., assignor.)
Greve, Edgar E., Bellevue, assignor, by mesne assignments, to Oil Well Supply Company, Pittsburgh, Pa. Earth-boring rotary. 1,785,254; Dec. 16.
Greve, Edgar E., Bellevue, assignor, by mesne assignments, to Oil Well Supply Company, Pittsburgh, Pa. Crown-block-pulley construction. 1,785,255; Dec. 16.
Greve, Edgar E., Bellevue, assignor, by mesne assignments, to Oil Well Supply Company, Pittsburgh, Pa. Rotary drilling machine. 1,785,256; Dec. 16.
Greve, Edgar E., Bellevue, assignor, by mesne assignments, to Oil Well Supply Company, Pittsburgh, Pa. Control mechanism for rotary drilling apparatus. 1,785,257; Dec. 16.
Griggs, John O., Steubenville, Ohio. Open-hearth regenerative furnace. 1,785,549;; Dec. 16.
Grilley, Ernest M., Waterbury, assignor, by mesne assignments, to George E. Ailing & Sons, Winsted, Conn. Ash tray. 1,785,305; Dec. 16.
Grisard, Paul D., Poughkeepsie, N. Y. Razor. 1,785,189; Dec. 16.
Grisard, Paul D., Poughkeepsie, N. Y. Razor. 1,785,190; Dec. 16.
Griswold, Thomas, jr., assignor to the Dow Chemical Company, Midland, Mich. Apparatus for chemical reactions. 1,785,080; Dec. 16.
Groesbeck, Ernie, Oshkosh, Wis. Rotary pump or engine. 1,785,444; Dec. 16.
Guarsteel Safety Stair Co. (See Felsenthal, Harold, assignor.)
Guillemette, Romeo, Taunton, Mass. Aeroplane-steering apparatus. 1,785,806; Dec. 16.
Gursky, Hyman, and M. Volkes, Brooklyn, N. Y. Folding cot. 1,785,258; Dec. 16.
Gwisdalla Floatless Carburetor Corporation, The. (See Fulwiler, Arthur W., assignor.)
Hacker Manufacturing Company. (See Trotter, Henry E., assignor.)
Hackett, Robert W., Upper Darby, and A. G. Worrall, assignors to L. J. Kolb, trading as Safette Glass Company, Philadelphia, Pa. Border seal for laminated glass. 1,785,696; Dec. 16.
Haertel, Hans R., Wrentham, assignor to T. H. Dumper, trustee, Newton, Mass. Rubber articles and producing the same. 1,785,081; Dec. 16.
Haertel, Hans R., Wrentham, assignor to T. H. Dumper, trustee, Newton, Mass. Rubber article and producing the same. 1,785,082; Dec. 16.
Haertel, Hans R., Wrentham, assignor to T. H. Dumper trustee, Newton, Mass. Producing rubber articles. 1,785,083; Dec. 16.
Haertel, Hans R., Wrentham, assignor to T. H. Dumper trustee, Newton, Mass. Rubber articles and producing the same. 1,785,084; Dec. 16.
Haertel, Hans R., Wrentham, assignor to T. H. Dumper trustee, Newton, Mass. Rubber articles and producing the same. 1,785,085; Dec. 16.
Hagemann, Edwin C., Short Hills, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Toroidal inductance device. 1,784,833; Dec. 16.
Hagen, Berger A. (See Martell, C., and Hagen.)
Hale, Clyde H., Riverside, and H. J. Kleefisch, Oak Park, Ill. Kitchen utensil. 1,785,191; Dec. 16.
Hall, Wesley R., Cincinnati, Ohio. Garage construction. 1,784,870; Dec. 16.
Haller, Ludwig, Stuttgart, Germany. Tooth clamp. 1,785,624; Dec. 16.
Halpenny, Richard. (See de Forest, L., and Halpenny.)
Hamilton Beach Mfg. Co. (See Mross, Edward, assignor.)
Hamilton, William B., Pittsburgh, Pa. Window ventilator. 1,785,682; Dec. 16.
Hamilton, William F., assignor of one-half to F. S. Rollins, New York, N. Y. Ignition system. 1,785,411; Dec. 16.
Hammerly, Herman J., Wallingford, assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Double-throw switch. 1,785,192; Dec. 16.
Hammerly, Herman J., Wallingford, assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Multiple-break switch. 1,785,194; Dec. 16.
Hammond, John H., jr., Glouchester, Mass. System and method of communication. 1,785,307; Dec. 16.
Hancock, Gustavus A., Oak Lane, Pa. Hearth broom. Des. 82,823; Dec. 16.
Handley, George F., Glendale, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriter machine. 1,785,445; Dec. 16.
Hanner, C. A. (See Kalo, Albert A., assignor.)

Hansen, Charles, and H. S. Ellson, Lakewood, Ohio, assignor to National Carbon Company, Inc. Current-collecting brush. 1,785,483; Dec. 16.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Charging device. 1,785,344; Dec. 16.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Hose clamp. 1,785,550; Dec. 16.

Hansen, Hans P., Syracuse, N. Y. Mortuary-record container. 1,785,582; Dec. 16.

Hanson, Nathan E., assignor to Union Special Machine Company, Chicago, Ill. Rug-tufting machine. 1,785,625; Dec. 16.

Hanus, Frank, Cleveland, Ohio. Apparatus for manufacturing ice. 1,784,834; Dec. 16.

Hardie, Robert W., Fanwood, N. J. Dividing strip. 1,785,028; Dec. 16.

Harding, Oscar F. (See Candee, R. R., and Harding.)

Harding, Oscar F., Long Beach, Calif. Core by-pass drill. 1,785,120; Dec. 16.

Harris, Ford W. (See Turner, Charles L., assignor.)

Harris, Richard A., assignor to Baker Perkins, Limited, Peterborough, England. Wrapping machine for sweetmeats and the like. 1,784,835; Dec. 16.

Harrison, Henry C., Port Washington, assignor to Western Electric Company, Incorporated, New York, N. Y. Mechanical transmission system. 1,784,871; Dec. 16.

Harrison, John G. (See Hough, A., and Harrison.)

Hart, Hubert C., Unionville, Conn. Safety razor. 1,785,446; Dec. 16.

Hartford-Empire Company. (See Peiler, Karl E., assignor.)

Hartman, Edward, assignor to Sandwich Manufacturing Co., Sandwich, Ill. Portable grain elevator. 1,784,872; Dec. 16.

Hartstoff-Metall Aktiengesellschaft (Hametag). (See Podszus, Emil, assignor.)

Harwick, Henry K., Darby, Pa. Locomotive-boiler support. 1,785,626; Dec. 16.

Hasemann, John L., Caldwell, assignor to American Flexible Shaft Manufacturing Corporation, Newark, N. J. Casing for flexible shafts. 1,785,345; Dec. 16.

Hatch, Charles T., assignor to Union Steel Products Company, Albion, Mich. Separator. 1,785,346; Dec. 16.

Hatfield, Percy W., assignor to Winship, Bolt & Co., Wakefield, Mass. Label-sewing machine. 1,785,412; Dec. 16.

Hauk John W., Whittier, assignor of one-half to L. G. Gates, Bakersfield, Calif. Automatic feed device for rotary drill bits. 1,785,086; Dec. 16.

Havens, Wilson W., Oakland, assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif. Fruit pitting and coring machine. 1,785,013; Dec. 16.

Hawes, Charles L., assignor of one-half to C. Strassheim, Chicago, Ill. Mechanical radiator ornament. 1,784,988; Dec. 16.

Hawke, Clarence E., Metuchen, N. J., assignor to The Carborundum Company, Niagara Falls, N. Y. Combustion chamber. 1,785,583; Dec. 16.

Hawley, Jesse B., Wilmette, assignor, by mesne assignments, to United Reproducers Corporation, St. Charles, Ill. Amplifier horn. 1,785,193; Dec. 16.

Haywood James B., Hopewell, Va. Copyholder. 1,784,873; Dec. 16.

Hazard, Joseph J., Saratoga Springs, N. Y. Radio. 1,785,627; Dec. 16.

Heath, Walter J., et al. (See Minium, Abram E., assignor.)

Heckert, Fritz, assignor to Kienzle Uhrenfabriken A. G., Schwenningen-on-the-Neckar, Wurttemberg, Germany. Automatic strike-regulating means for clocks. 1,785,551; Dec. 16.

Heimendinger, Bert R., Britt, Iowa. Valve push rod. 1,785,308; Dec. 16.

Heina, William M., Long Island City, N. Y., assignor to Automobile Radio Corporation. Portable radio apparatus. 1,785,552; Dec. 16.

Heinert, Heinrich. (See von Ardenne, M., and Heinert.)

Hellermann, Paul F., Hamburg, Germany. Grip for electric cables. 1,785,628; Dec. 16.

Helms, Harry W., assignor to Highway Trailer Company, Edgerton, Wis. Fifth-wheel construction for semi-trailers. 1,785,697; Dec. 16.

Hemphill Company. (See Lawson, John and R. H., assignors.)

Herrschaft, William, New York, N. Y. Producing theatrical effects. 1,785,347; Dec. 16.

Hess, Edward C., Pittsburgh, Pa. Envelope feeder. 1,784,836; Dec. 16.

Hessler, Arthur, assignor to The Alligator Company, St. Louis, Mo. Apparel coat. 1,785,029; Dec. 16.

Hetzner, Arthur E., East Orange, N. J., assignor to Graybar Electric Company, Inc., New York, N. Y. Multiple push-button unit. 1,785,087; Dec. 16.

Heuser, Herman, Chicago, Ill. Aldehyde-free alcoholic liquids. 1,785,447; Dec. 16.

Hiatt, William F., assignor of one-half to H. D. Skiles, Indianapolis, Ind. Connecting rod and cross-head. 1,784,837; Dec. 16.

Hickerson, Henry P., Anaheim, assignor to E. Koppl, Long Beach, Calif. Valve construction for slush pumps. 1,785,259; Dec. 16.

Hickok Manufacturing Company. (See Shields, Lowell W., assignor.)

Hicks, William W., San Francisco, Calif. Electric renecting heater. 1,785,418; Dec. 16.

Hiering, William C., assignor to J. E. Mergott Company, Newark, N. J. Bag-frame clasp. 1,785,380; Dec. 16.

Higgin, Henry, assignor to The Higgin Manufacturing Company, Newport, Ky. Screen for casment windows. 1,785,584; Dec. 16.

Higgin Manufacturing Company, The. (See Higgin, Henry, assignor.)

Higgins, Grover B., Chicago, Ill. Coiling device. 1,785,518; Dec. 16.

Highberger, John H. (See McLaughlin, G. D., Rockwell, O'Flaherty, and Highberger.)

Highway Trailer Company. (See Helms, Harry W., assignor.)

Hills, Charles F., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Elimination of corona in alternators. 1,784,989; Dec. 16.

Hills, Charles F., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Corona elimination in dynamo-electric machines. 1,784,990; Dec. 16.

Hinckley, F. C., Stratford, assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn. Sound-amplifying means. 1,785,553; Dec. 16.

Hoagland, Frank O., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Welding drills. 1,784,932; Dec. 16.

Hobé, William W., New York, N. Y. Bottle or similar article. Des. 82,824; Dec. 16.

Hoes, James W., and H. Cronk, assignors to The Wind-Blast Chaffer Company, Sidney, Nebr. Chaffer for thrashing machines and grain harvesters. 1,785,195; Dec. 16.

Hofmann, Hugo, Johnson City, Tenn., assignor to American Bemberg Corporation, New York, N. Y. Tying string for skeins. 1,785,414; Dec. 16.

Hogan, Edward L. (See Morse, C. T., and Hogan.)

Hoge, John R., and L. D. Soubier, Toledo, Ohio, assignor to American Patents Corporation. Game apparatus. 1,785,088; Dec. 16.

Holloway, John H., La Fayette, Ind. Graphophone clock. 1,785,121; Dec. 16.

Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Adjustable jack. 1,784,991; Dec. 16.

Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,785,196; Dec. 16.

Holoubek, Joseph, New York, N. Y. Crab trap. 1,785,348; Dec. 16.

Holt, Grover J., and W. Longevin, Crosby, assignors, by mesne assignments, to The Reclamation Company, St. Paul, Minn. Track-shifting apparatus. 1,784,963; Dec. 16.

Holtzman, John, New York, N. Y., assignor to Francis Keil & Son, Inc. Lock. 1,785,381; Dec. 16.

Honey, Alfred E., Ilford, assignor to J. Stone & Company Limited, Deptford, England. Power-transmission gearing for use on railway and other vehicles. 1,785,197; Dec. 16.

Hookless Fastener Company. (See Aronson, Peter A., assignor.)

Hookless Fastener Company. (See Nicholson, Robert H., assignor.)

Hookless Fastener Company. (See Norton, Samuel H., assignor.)

Hookless Fastener Company. (See Sundback, Gideon, assignor.)

Hopkins, George F., Jackson, Mich., W. K. Sagendorph, executor of said George F. Hopkins. Pneumatic engine cylinder and control for lathe chucks and the like. 1,785,349; Dec. 16.

Horiy Shinjiro, Tokyo, Japan. Stencil sheet. 1,785,260; Dec. 16.

Horton, E., & Son Company, The. (See Regan, Joseph C., assignor.)

Hotstream Heater Company. (See Morrow, Clarence H., assignor.)

Hough, Arthur, Summit, J. R. Dufford, Paterson, and W. C. Leonhard, Passaic, N. J. Manufacture of nitrocellulose. 1,785,030; Dec. 16.

Hough, Arthur, Summit, N. J., and J. G. Harrison, New York, N. Y.; said Hough assignor to said Harrison. Method and product for preventing efflorescence in ceramics. 1,785,309; Dec. 16.

Howard, Charles C., Louisville, Ky. Assembling sheets and applying adhesive thereto. 1,785,261; Dec. 16.

Howard, Frank A. (See Loomis, N. E., Tomlinson, and Howard.)

Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Switch machine for railroads. 1,785,698; Dec. 16.

Hubbard, Frank A., Islip, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Control of wave transmission. 1,784,874; Dec. 16.

Huffman, Sherman O., Duquesne, Pa. Leader carrier. 1,784,965; Dec. 16.

Hugershoff, Reinhard, Dresden, assignor to "Ikarus" Internationale Patent-Vertwertungs A. G., Vaduz im Furstentum, Liechtenstein, Stereoscopic measuring instrument. 1,785,448; Dec. 16.

Hughes, Arthur S. (See Gorsuch, H. F., and Hughes.)

Hughes, Arthur S., Mansfield, Ohio. Earth-working attachment for tractors. 1,785,122; Dec. 16.

Hughes-Keenan Company. (See Gorsuch, H. F., and Hughes, assignors.)

Hull, Howard J. (See Keener, Monroe, assignor.)

Humason, Granville A., Houston, Tex. Well packer. 1,785,123; Dec. 16.

Humberstone, Ernest H., and H. R. Welch, assignors to The Marble Cliff Quarries Company, Columbus, Ohio. Hopper-feeding device. 1,785,585; Dec. 16.

Hume, Edward S., Perth, Western Australia, assignor to Hume Steel Limited, Melbourne, Australia. Manufacture or lining of pipes by centrifugal action. 1,785,586; Dec. 16.

Hume Steel Limited. (See Hume, Edward S., assignor.)

Hunter, Walter P., Vancouver, Wash. Take-up device. 1,785,629; Dec. 16.

Hurt, Samuel N., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,785,382; Dec. 16.

Ice Cream Cone Machinery Inc. (See Schroeder, C., and Tatosian, assignors.)

"Ikarus" Internationale Patent-Verwertungs A. G. (See Hugershoff, Reinhard, assignor.)

Imerman, Stanley. (See Schlitters, M. J., jr., and Imerman.)

Imerman, Stanley, Detroit, Mich. Compressible packing. 1,784,899; Dec. 16.

Independence Coffee and Spice Company. (See Savageau, Fred L., assignor.)

Independent Pneumatic Tool Company. (See Norling, Reinhold A., assignor.)

Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)

Ingraham, E., Co., The. (See Large, W. J., and Simpson, assignors.)

Ingraham, E., Co., The. (See Simpson, John O., assignor.)

Insulite Company, The. (See Ellis, George H., assignor.)

International Postal Supply Company. (See Pacher, Josef V., assignor.)

Intertype Corporation. (See Willis, Le Roy W., assignor.)

Irgens, Finn T., assignor to Outboard Motors Corporation, Milwaukee, Wis. Underwater exhaust mechanism. 1,785,089; Dec. 16.

Irwin, William Y., jr. (See Bonney, R. D., and Irwin.)

Isaacson, Fred, and W. M. Caughlan, Denver, Colo. Switch-point lock. 1,785,630; Dec. 16.

Jackson, Joseph R., jr., Boston, Mass. Elevator control device. 1,784,933; Dec. 16.

Jacoby, Arthur B., assignor to The American Rolling Mill Company, Middletown, Ohio. Crane. 1,785,090; Dec. 16.

Jaeger, Alphons O., Mount Lebanon, assignor to The Selden Research & Engineering Corporation, Pittsburgh, Pa. Purification of crude anthracene. Re17,902; Dec. 16.

Jamieson, Hugh V., Dallas, Tex. Apparatus for processing film. 1,785,631; Dec. 16.

Jandus, Herbert S. (See Jandus, William and H. S.)

Jandus, William and H. S., East Cleveland, Ohio. Precision gauge. 1,785,383; Dec. 16.

Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)

Jenkins, Alexander F., Baltimore, Md. Cutting and welding torch. 1,784,964; Dec. 16.

Jenkins, Charles F., assignor to Jenkins Laboratories, Washington, D. C. Duplex scanning disk. 1,785,262; Dec. 16.

Jenkins Laboratories. (See Jenkins, Charles F., assignor.)

Jensen, Jedd L., Salt Lake City, Utah. Ventilator. 1,785,263; Dec. 16.

Jeskwein, Adolph J., Kenosha, Wis. Rocking-horse. 1,784,875; Dec. 16.

Jett, George C., assignor of two-fifths to W. H. Stiemke, Milwaukee, Wis. Hauling unit. 1,785,124; Dec. 16.

Johansson, Per W., New York, N. Y. Plectrum holder. 1,784,934; Dec. 16.

Johns-Manville Corporation. (See Christenson, George, assignor.)

Johnson, Ben F., assignor to Walker Manufacturing Company, Racine, Wis. Lifting jack. 1,785,554; Dec. 16.

Johnson, Edward E., St. Paul, Minn. Making coupling members. 1,784,966; Dec. 16.

Johnson, John F., assignor to Weber Costello Company, Chicago Heights, Ill. Ventilated blackboard installation. 1,784,900; Dec. 16.

Johnson, Louis, Chicago, Ill. Artificial fish lure. 1,785,310; Dec. 16.

Johnson, Roy W., Columbus, Ohio, assignor to The Checker Cab Manufacturing Company, Kalamazoo, Mich. Combined tail and stop light for motor vehicles. Des. 82,825; Dec. 16.

Johnson, Samuel W., assignor of one-half to R. I. Springstead, Port Allegany, Pa. Attachment for fretted musical instruments. 1,785,311; Dec. 16.

Johnson, Victor E., assignor of one-half to J. E. Wolcott, Royal Oak, Mich. Door latch. 1,784,935; Dec. 16.

Jonas, Gottfried B. (See Brandsma, W. F., Dijksterhuis, Sizoo, and Jonas.)

Jones, Paul C., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Rubber composition and preserving rubber. 1,784,838; Dec. 16.

Jones, R. A., & Company. (See Jones, Ruel A., assignor.)

Jones, Ruel A., Covington, assignor to R. A. Jones & Company, Inc., Covington, Ky. Soap press. 1,785,312; Dec. 16.

Joy Manufacturing Company. (See Arentzen, Einar M., assignor.)

Kahn, Louis E., assignor to Parisian Novelty Co., Chicago, Ill. Display device. 1,785,449; Dec. 16.

Kallus, Joseph L., Brooklyn, N. Y. Advertising doll. Des. 82,826; Dec. 16.

Kalman Steel Company. (See White, William E., assignor.)

Kalo, Albert A., Columbus, assignor of one-half to C. A. Hanner, Canton, Ohio. Multiple wrench. 1,785,125; Dec. 16.

Kane, Edward W. (See Douglas, John F. H., assignor.)

Kasch, Henry J., Dayton, Ohio. Knob. Des. 82,827; Dec. 16.

Kastner, Richard, Steyrermuhl, and H. Schmolka, Vienna, Austria. Treating paperboard and the like. 1,785,484; Dec. 16.

Kaz, Samuel J., assignor to Mohawk Products Company, Chicago, Ill. Table lamp. Des. 82,828; Dec. 16.

Keener, Monroe, Lititz, assignor to H. J. Hull, Lancaster, Pa. Valve for milking machines. 1,785,313; Dec. 16.

Keller, Arthur C., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sound-reproducing system. 1,784,839; Dec. 16.

Keller Mechanical Engineering Corporation. (See Shaw, John C. and R. D., assignors.)

Kelly, Sidney R., Gem, Idaho. Hose mender. 1,785,314; Dec. 16.

Kelso, Howard F., Houston, Tex. Water-closet bowl. 1,785,198; Dec. 16.

Kendall, Marvin R., Chicago, Ill., assignor, by mesne assignments, to St. Regis Paper Company, New York, N. Y. Bag. 1,785,126; Dec. 16.

Kennedy, Edwin E., North Olmsted, Ohio. Adjusting the rails of conveyers relative to the chains thereof. 1,785,315; Dec. 16.

Kennel, Fritz, assignor to the Firm of Nollescre Werke-Komm.-Ges., Weissenfels O. S., Germany. Lasting machine. 1,785,555; Dec. 16.

Kenyon, Sherman S. (See Walker, P. H., and Kenyon.)

Kerngood, Allen H., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Apparel buckle. Des. 82,829; Dec. 16.

Kerngood, Allen H., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Apparel buckle. Des. 82,830; Dec. 16.

Kerngood, Allen H., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Apparel buckle. Des. 82,831; Dec. 16.

Kerngood, Allen H., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Apparel buckle. Des. 82,832; Dec. 16.

Kerngood, Allen H., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Apparel buckle. Des. 82,833; Dec. 16.

Kerngood, Allen H., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Apparel buckle. Des. 82,834; Dec. 16.

Kerngood, Allen H., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Apparel buckle. Des. 82,835; Dec. 16.

Kerngood, Allen H., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Apparel buckle. Des. 82,836; Dec. 16.

Kerr, Howard J., Westfield, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Slag screen and wall-cooling means. 1,785,350; Dec. 16.

Keystone Aircraft Corporation. (See Daland, Elliot, assignor.)

Kichline, Frank O., Lebanon, Pa., assignor to Bethlehem Steel Company. Manufacture of low-carbon chrome steel. 1,785,199; Dec. 16.

Kiehlbauch, Henry E., Tyndall, S. Dak. Wheel-hub protector. 1,785,127; Dec. 16.

Kiel, Francis, & Son, Inc. (See Holtzman, John, assignor.)

Kienzle Uhrenfaoriken A. G. (See Heckert, Frits, assignor.)

Kiesel, William F., jr., Altoona, Pa. Locomotive. 1,785,485; Dec. 16.

Kimbell, Arthur W., assignor to Cinch Manufacturing Corporation, Chicago, Ill. Spring catch and like device. 1,784,936; Dec. 16.

Kimmel, Frederick C., Columbus, Ind. Liquid-dispensing device. 1,785,816; Dec. 16.

Kingsley, Charles B., Clairton, Pa., assignor to Mississippi Glass Company. Method of and apparatus for annealing materials. 1,785,264; Dec. 16.

Kinnear Manufacturing Company, The. (See Rush, Albert, assignor.)

Kirn, William, Solomon, Kans. Differential gearing. 1,785,091; Dec. 16.

Kivy, Julius, Brooklyn, N. Y. Toy desk or similar article. Des. 82,837; Dec. 16.

Kiwad, Michael, New York, N. Y., assignor to La Belle Specialty Co., Inc. Lamp base or article of analogous nature. Des. 82,838; Dec. 16.

Klaiber, Walter J., Pittsburgh, Pa., assignor to The Koppers Company. Removal of carbon bisulphide from gas. 1,785,415; Dec. 16.

Kleefisch, Henry J. (See Hale, C. H., and Kleefisch.)

Klima, Stanley P., Odessa, Wash. Carburetor dust cleaner. 1,785,632; Dec. 16.

Klingensmith, Frank L., Detroit, Mich. Railway tie. 1,784,901; Dec. 16.

Klotz, Russell L., Little Falls, N. J. Chair. 1,785,317; Dec. 16.

Knourek, William M., River Forest, Ill. Mortising tool. 1,785,351; Dec. 16.

Kobe, Incorporated. (See Coberly, Clarence J., assignor.)

Koehring Company. (See Lichtenberg, Erich H., assignor.)

Kolb, Louis J. (See Hackett, R. W., and Worall, assignors.)

Koppers Company, The. (See Klaiber, Walter J., assignor.)

Koppers Company. (See Seil, Gilbert E., assignor.)

Koppl, Ernest. (See Hickerson, Henry P., assignor.)

Kornblum, Morris, assignor to Metal Lamp Corporation, Brooklyn, N. Y. Table lamp. Des. 82,839; Dec. 16.

Kovats, John, assignor to Lorraine Metal Manufacturing Company, Bridgeport, Conn. Can opener. 1,785,384; Dec. 16.

Krause, Hermann, assignor to Stout Manufacturing Company, Menomonee Falls, Wis. Can-washing machine. 1,785,352; Dec. 16.

Kreslawsky, Paul, Berlin, Germany. Shoe article. 1,784,937; Dec. 16.

Kronig, Christian. (See Wels, Franz, assignor.)

Kuhlmann, Clemens, Ratibor, assignor to Siemens Planiawerke Aktiengesellschaft für Kohlefabrikate, Berlin-Lichtenberg, Germany. Electrode joint. 1,785,587; Dec. 16.

Kumor, Stefan F., Chicago, Ill. Aircraft. 1,785,633; Dec. 16.

Kurita, Torao. (See Suzuki, T., Tanaka, and Kurita.)

Kursheedt, Edmund B., Daytona Beach, Fla. Piano-lid adjuster. 1,785,486; Dec. 16.

Kurtz, Roberto, Buenos Aires, Argentina. Excavating machine. 1,785,353; Dec. 16.

La Belle Specialty Co. (See Kiwad, Michael, assignor.)

La Bombard, Leon E., Waltham, and M. H. Sidebotham, West Newton, assignors to Specialty Automatic Machine Company, Chelsea, Mass. Box partitioning. 1,785,416; Dec. 16.

Lacy, Walter P., et al. (See Patterson, Edgar W., assignor.)

Lacy, William G., et al. (See Patterson, Edgar W., assignor.)

Lade, Archibald, Northampton, assignor to B. F. Perkins & Son, Inc., Holyoke, Mass. Calender roll. 1,785,265; Dec. 16.

Laffillée, Jacques J., Paris, France. Folding table. 1,785,450; Dec. 16.

La Forge, Guy S., Union Bridge, Md. Manufacturing Portland cement. 1,784,840; Dec. 16.

Lambert, Joseph H., Chicago, Ill., assignor to Standard Oil Company, Whiting, Ind. Insecticide. 1,785,451; Dec. 16.

Lambert, William C., assignor of one-fourth to D. McG. Gilfillan, Ironton, Ohio, and one-fourth to E. Stewart, Washington, D. C. Wing structure for airplanes. 1,785,318; Dec. 16.

Lambie, William. (See Newbrough, Walter F., assignor.)

Lancaster, George W., Richmond, Va. Window-frame construction. 1,784,938; Dec. 16.

Lancer, Peter. (See Eufinger, Peter, assignor.)

Landau, Bernhard, College Point, N. Y. Ventilator construction. 1,784,841; Dec. 16.

Lange, Otto, Chicago, Ill. Ice-cream-cone coater. 1,784,992; Dec. 16.

Lange, William L., New York, N. Y. Neck adjuster for banjos. 1,785,266; Dec. 16.

Lansing, Raymond P., Montclair, N. J., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,785,319; Dec. 16.

Lanzetta, Anthony, Bronx, N. Y. Aeroplane. 1,785,128; Dec. 16.

Large, William J., and J. O. Simpson, assignors to The E. Ingraham Co., Bristol, Conn. Regulator for clock movements. 1,785,267; Dec. 16.

Larsson, Ernst A., assignor to The Ohio Brass Company, Mansfield, Ohio. Valve and switch operating means. 1,785,268; Dec. 16.

Larsson, Ernst A., assignor to The Ohio Brass Company, Mansfield, Ohio. Coupling mechanism. 1,785,269; Dec. 16.

Lassen, Grover V. (See White, Ezekiel F., assignor.)

Lauer, George E., Oakland, Calif. Flue damper and latching mechanism. 1,785,385; Dec. 16.

Lavirotte, Francois, Lyon, France, assignor to Standard Oil Development Company. Preparing petrolatum and the like and product obtained thereby. 1,785,270; Dec. 16.

Lawaczeck, Franz, Munich, Germany, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Hydraulic machine. 1,785,354; Dec. 16.

Lawlor, John J. (See Morris, T. O., and Lawlor.)

Lawrence, Alfred, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Cylinder lock. 1,785,634; Dec. 16.

Lawser, Charles W., Bala, assignor to Wicaco Machine Corporation, Philadelphia, Pa. Spinning pump. 1,785,355; Dec. 16.

Lawser, Charles W., Bala, assignor to Wicaco Machine Corporation, Philadelphia, Pa. Spinning pump. 1,785,356; Dec. 16.

Lawson, John and R. H., assignors to Hemphill Company, Pawtucket, R. I. Mechanism for controlling knitting needles in plating operations. 1,785,200; Dec. 16.

Lawson, Robert H. (See Lawson, John and R. H.)

Lebedenko, Nikolaus, Berlin-Wilmersdorf, Germany. Manufacture of photographic pictures on chromated gel layers. 1,785,635; Dec. 16.

Leber, Harry S., Crafton, Pa. Combination bathtub and shower. 1,785,636; Dec. 16.

Lee, Ira E. (See Calcott, W. S., and Lee.)

Lehmann, Ernst P., Brandenburg-on-the-Havel, Germany. Connecting tubular members. 1,785,129; Dec. 16.

Lemex, John D., Tulsa, Okla., assignor, by mesne assignments, to Oil Well Supply Company, Pittsburgh, Pa. Back-pressure joint. 1,785,271; Dec. 16.

Lemex, John D., Tulsa, and D. R. Smith, Ardmore, Okla., assignors, by mesne assignments, to Oil Well Supply Company, Pittsburgh, Pa. Sand cap. 1,785,272; Dec. 16.

Lemons, George G., Long Beach, Calif. Mechanical movement. 1,784,842; Dec. 16.

Leonhard, William C. (See Hough, A., Dufford, and Leonhard.)

Levin, Harold L., Worcester, assignor to The Flintkote Company, Boston, Mass. Waterproof fibrous product. 1,785,357; Dec. 16.

Levin, Isaac H., assignor, by mesne assignments, to Gas Industries Company, Pittsburgh, Pa. Method and apparatus for treating fluids with solids. 1,785,273; Dec. 16.

Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Coal-loading machine. 1,785,201; Dec. 16.

Lévy, Marcel, assignor of one-half to Prodorite S. A., Geneva, Switzerland. Making road surfaces. 1,785,130; Dec. 16.

Lewin, Walter J., Mathoura, New South Wales, Australia. Attachment for traction wheels. 1,785,452; Dec. 16.

Libbey-Owens-Ford Glass Company. (See Rowley, Clifford A., assignor.)

Libbey-Owens-Ford Glass Company. (See Rowley, C. A., and Reece, assignors.)

Lichtenberg, Erich H., assignor to Koehring Company, Milwaukee, Wis. Direct bucket drive. 1,785,031; Dec. 16.

Lidgerwood Manufacturing Company. (See Dickinson, Joseph H. and M. H., assignors.)

Liebermann, Paul B., Santa Barbara, Calif., assignor to General Motors Corporation, Detroit, Mich. Journal box. 1,785,032; Dec. 16.

Lighting Appliance Company. (See Blumenthal, Julius J., assignor.)

Lindsjo, Verner, assignor to Draper Corporation, Hopedale, Mass. Automatically-threading loom shuttle. 1,785,224; Dec. 16.

Lipper, Clarence, Philadelphia, Pa., assignor to Lipper Manufacturing Co., Inc. Making hats and the product thereof. 1,785,637; Dec. 16.

Lipper Manufacturing Co. (See Lipper, Clarence, assignor.)

Litle, Thomas J., jr., assignor to Copeland Products, Inc., Detroit, Mich. Control for refrigeration mechanism. 1,785,699; Dec. 16.

Locke, Emery A. (See Bergquist, Charles H., assignor.)

Loebell, Henry O., New York, N. Y., assignor to H. L. Doherty. Manufacture of combustible gas. 1,785,519; Dec. 16.

Lohr, Paul. (See Berner, L., and Lohr.)

Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Coat. Des. 82,840; Dec. 16.

Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 82,841; Dec. 16.

Longevin, Wilfred. (See Holt, G. J., and Longevin.)

Longstreet, Fitz R., Gainesville, Ga. Aeroplane, 1,784,939; Dec. 16.

Loomis, Nathaniel E., A. H. Tomlinson, and F. A. Howard, Elizabeth, N. J., assignors to Standard Oil Development Company. Pyrolysis. 1,785,274; Dec. 16.

Lorber, Charles, Louisville, Ky., assignor to Eastern Tool and Manufacturing Company, Bloomfield, N. J. Lawn rake. 1,785,320; Dec. 16.

Lorenz, Curt, and E. Boecher, Pittsfield, Mass. Stocking protector. 1,785,033; Dec. 16.

Lorraine Metal Manufacturing Company. (See Kovats, John, assignor.)

Lösch, Albert, Hamburg, Germany. Double-pin holdfast. 1,784,843; Dec. 16.

Lowenstein, Gothard, Brooklyn, N. Y. Handling vehicles in garages. 1,785,034; Dec. 16.

Lower, Nathan M., Pittsburgh, Pa., assignor by mesne assignments, to The Standard Stoker Company, Inc., New York, N. Y. Heating unit for locomotive tenders. 1,785,275; Dec. 16.

Lubeck, Carl H. O., Stockholm, Sweden. Electric accumulator. 1,785,202; Dec. 16.

Ludwig, Fred, Honolulu, Hawaii. Hose coupling. 1,785,638; Dec. 16.

Lupton's, David Sons Company. (See Brogden, Joah, assignor.)

Lutz, George, Rocky River, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Zinc-chloride-base flux. 1,785,131; Dec. 16.

Lyon Metal Products, Inc. (See Vance, Walter N., assignor.)

Lyons, George A. (See Doyle, F. A., and Lyons.)

Macbeth-Evans Glass Company. (See Sloan, Theodore H., assignor.)

Maccarone, Fred, assignor of one-half to F. Cardone, Brooklyn, N. Y. Turned shoe. 1,785,035; Dec. 16.

MacClatchie, John W., Compton, Calif. Valve. 1,785,278; Dec. 16.

Mack, Patrick H., Bradford, assignor, by mesne assignments, to Oil Well Supply Company, Pittsburgh, Pa. Oil-well packer. 1,785,276; Dec. 16.

Mack, Patrick H., Bradford, assignor, by mesne assignments, to Oil Well Supply Company, Pittsburgh, Pa. Oil-well packer. 1,785,277; Dec. 16.

Mackin, Joseph F., Columbus, Ohio. Device for testing clays and the like. 1,785,521; Dec. 16.

Maggio, Salvator, Pittsburgh, Pa. Picture frame. Des. 82,842; Dec. 16.

Mallory, Gerald D., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Braiding machine. 1,785,683; Dec. 16.

Marble Cliff Quarries Company, The. (See Humberstone, E. H., and Welch, assignors.)

Markert, Frederick E., Bogota, N. J., assignor to John Boyle & Company, Incorporated, New York, N. Y. Awning fixture. 1,785,520; Dec. 16.

Marks, Herbert E., Sewickley, Pa., assignor to United States Gypsum Company, Chicago, Ill. Combined floor and ceiling construction. 1,784,876; Dec. 16.

Marrison, Warren A., Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Constant-frequency-wave source. 1,784,844; Dec. 16.

Marrison, Warren A., Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Oscillation generator. 1,785,036; Dec. 16.

Marsh, Esli A., Chicago, Ill., assignor, by mesne assignments, to St. Regis Paper Company, New York, N. Y. Feeding device. 1,785,132; Dec. 16.

Martell, Charles, Cicero, and B. A. Hagen, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for coating cores. 1,785,037; Dec. 16.

Martin Automatic Fishing Reel Company. (See Maury, Alfred D., assignor.)

Martin Brothers Company. (See Fellroth, Erick O., assignor.)

Martin-Copeland Company, a trusteeship. (See Martin, Laurence C., assignor.)

Martin, Edgar W., et al. trustee. (See Martin, Laurence C., assignor).

Martin, Laurence C., assignor to Martin-Copeland Company, a trusteeship consisting of E. W. Martin, Barrington, L. C. Martin, Providence, R. I., and G. W. Bleecker, Chicago, Ill. Nose-guard mounting for spectacles and eyeglasses. 1,785,038; Dec. 16.

Mason, Charles H., East Providence, R. I. Manual-training bench. 1,785,321; Dec. 16.

Mason Manufacturing Company. (See Flood, Leo P., assignor.)

Mason, William H., assignor to Masonite Corporation, Laurel, Miss. Water-resistant fiber product and process of manufacture. 1,784,993; Dec. 16.

Masonite Corporation. (See Mason, William H., assignor.)

Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Connecting device. 1,785,522; Dec. 16.

Matthews, Algernon W., Haverhill, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. 1,784,940; Dec. 16.

Maurais, Joseph V., Muscatine, Iowa. Power-shaft connection for internal-combustion engines. 1,784,902; Dec. 16.

Maurer, Otto T., New York, N. Y. Package-opening device. 1,785,639; Dec. 16.

Maury, Alfred D., Olion, N. Y., assignor to Martin Automatic Fishing Reel Company, Incorporated. Brake for automatic reels. 1,785,279; Dec. 16.

Mauthe, Gustav, Cologne-Holweide, and A. Thauss, Cologne-Deutz, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Water-soluble product from fatty acids occurring in wool fat. 1,784,941; Dec. 16.

May Seed & Nursery Co. (See Young, Floyd S., assignor.)

McAvoy, Daniel E., Long Island City, N. Y. Stairway guard. 1,785,487; Dec. 16.

McCall, Lottie L., Biloxi, Miss. Doll. Des. 82,843; Dec. 16.

McCann, John H. (See Chandler, E. A., and McCann.)

McCann, Ronald A. (See Blosser, H. G., and McCann.)

McClain, Lee, Knoxville, Tenn. Plant-digging machine. 1,785,588; Dec. 16.

McCorkindale, William P., South Hadley Falls, assignor to Specialty Sales Company, Incorporated, Holyoke, Mass. Napkin fixture. 1,785,039; Dec. 16.

McCready, James P., Berlin, N. H. Valve lifter. 1,785,040; Dec. 16.

McDonald, Donald B., Quitman, Ga. Barrel-head-fastening means. 1,785,133; Dec. 16.

McDonald, Guy A. (See Adler, H., and McDonald.)

McDonald, William, assignor to Swift & Company, Chicago, Ill. Continuous screw press. 1,785,041; Dec. 16.

McDougall, Andrew, Parel, Bombay, India. Casting reel for fishing rods. 1,785,488; Dec. 16.

McElvain, Samuel M., Madison, Wis. Piperidine derivative and producing it. 1,784,903; Dec. 16.

McEvoy, Joseph J., and C. H. Upson, Waterbury, Conn. Paint and varnish remover. 1,785,417; Dec. 16.

McGee, Rupert E., Tampa, Fla., assignor of one-half to D. E. Walters. Spring. 1,785,489; Dec. 16.

McGuinness, William V., Flushing, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y. Single selector relay for pneumatic-tube. 1,784,967; Dec. 16.

McGuinness, William V., Flushing, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y. Pneumatic-tube system. 1,784,968; Dec. 16.

McIntyre, Frederic, Newton, Mass. Metering pump. 1,785,386; Dec. 16.

McKee, Martin E., Cincinnati, Ohio. System for automatically preventing railway-grade-crossing accidents. 1,785,093; Dec. 16.

McLachlan, Willard J., Schenectady, N. Y., assignor to General Electric Company. System of electric distribution. 1,785,710; Dec. 16.

McLachlan, Willard J., Schenectady, N. Y., assignor to General Electric Company. System of electric distribution. 1,785,711; Dec. 16.

McLachlan, Willard J., Schenectady, N. Y., assignor to General Electric Company. System of electric distribution. 1,785,712; Dec. 16.

McLachlan, Willard J., Schenectady, N. Y., assignor to General Electric Company. System of electric distribution. 1,785,713; Dec. 16.

McLachlan, Willard J., Schenectady, N. Y., assignor to General Electric Company. Control system. 1,785,714; Dec. 16.

McLaughlin, George D., G. E. Rockwell, F. O'Flaherty, and J. H. Highberger, Cincinnati, Ohio, assignors to Tanners' Council of the United States of America, New York, N. Y. Unhairing hides or skins. 1,785,092; Dec. 16.

McLeod, Clifford J., Quincy, Mass. Valve-silencing mechanism. 1,785,523; Dec. 16.

McLeod Furniture Company. (See McLeod, Raymond H., assignor.)

McLeod, Raymond H., assignor to McLeod Furniture Company, Laurel, Miss. Top for desks and the like. 1,784,969; Dec. 16.

McMillan Book Company. (See McMillan, John L., assignor.)

McMillan, John L., Syracuse, assignor to McMillan Book Company, Syracuse, N. Y. Loose-leaf binder. 1,785,684; Dec. 16.

McNamara, Edward, Wolsey, S. Dak. Calendar. 1,785,640; Dec. 16.

McQuaid, Howard S., East Chicago, Ind., assignor to The Grasselli Chemical Company, Cleveland, Ohio. Soldering. 1,785,134; Dec. 16.

McQuaid, Howard S., East Chicago, Ind., assignor to The Grasselli Chemical Company, Cleveland, Ohio. Flux for soft soldering. 1,785,135; Dec. 16.

McQuiston, Jesse T., Sharon, assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa. Tin pot. 1,785,322; Dec. 16.

Mead, Earl G., Cleveland Heights, Ohio. Streamline arrow and string-engaging means therefor. 1,785,589; Dec. 16.

Melhus, Irving E., Ames, Iowa. Composition for and process of treating plant wounds. 1,785,641; Dec. 16.

Melton, Bert C., London, England. Attachment for holding pictures against pocket mirrors. 1,784,970; Dec. 16.

Meltzer, Leo A., Seattle, Wash. Combined telephone pad and pencil holder. Des. 82,844; Dec. 16.

Mergott, J. E., Company. (See Hiering, William C., assignor.)

Merkl, Ruppert, Ossining, N. Y. Rodent trap. 1,784,904; Dec. 16.

Merrilles, Floy C., Chicago, Ill. Lady's neck piece. Des. 82,845; Dec. 16.

Merrill, Wilbur L., Schenectady, N. Y., assignor to General Electric Company. Drive for wood-pulp grinders and the like. 1,785,490; Dec. 16.

Messer, Adolf, Frankfort-on-the-Main, Germany. Complete separation of liquid air into oxygen and nitrogen. 1,785,491; Dec. 16.

Metal Lamp Corporation. (See Kornblum, Morris, assignor.)

Metcalf, George R., jr., assignor to Erie Malleable Iron Company, Erie, Pa. Conduit fitting. 1,785,136; Dec. 16.

Meyer, Friedrich, and H. J. Spanner, Berlin Halensee, Germany, assignors, by mesne assignments, to Electrons, Inc. Gas-filled discharge device. 1,784,877; Dec. 16.

Meyer, William, Chicago, Ill. Hair drier. 1,785,418; Dec. 16.

Mohawk Products Company. (See Kaz, Samuel J., assignor.)

Mohler, John J., Peoria, assignor to Wilmoh Manufacturing Corporation, Chicago, Ill. Subterranean check valve. 1,785,138; Dec. 16.

Monroe, Hanson H., Painesville, assignor, by mesne assignments, to The Grasselli Chemical Company, Cleveland, Ohio. Producing metallic cadmium from cadmium-containing material. 1,785,139; Dec. 16.

Moore, Matthew S. (See Black, William C., assignor.)

Moore, Merrill, Creston, Iowa. Luggage carrier for automobiles. 1,784,971; Dec. 16.

Morency, George H., Portland, Oreg., assignor to American Telephone and Telegraph Company. Telephone-exchange system. 1,784,905; Dec. 16.

Morimura Bros. Inc. (See Tomita, Urasaburo, assignor.)

Morris, Fred C., San Francisco, Calif. Brake lining. 1,784,994; Dec. 16.

Morris, Hubert C., Albany, Oreg. Ironing board. 1,785,280; Dec 16.

Morris, Thomas L., Van Nuys, Calif. Rotary fluid pump. 1,785,140; Dec. 16.

Morris, Thomas O., Easton, Pa., and J. J. Lawlor, Plainfield, N. J., assignors to Automatic Molding Machine Corporation, Dover, Del. Molding machine. 1,784,995; Dec. 16.

Morrison, Louis A., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Phonograph needle. 1,784,845; Dec. 16.

Morrison, Montford, Chicago, Ill. Integrator and recorder. 1,785,525; Dec. 16.

Morrow, Clarence H., assignor to The Hotstream Heater Company, Cleveland, Ohio. Dirt trap for thermostats. 1,785,387; Dec. 16.

Morse, Clark T., and E. L. Hogan, assignors, by mesne assignments, to American Blower Corporation, Detroit, Mich. Dust collection. 1,785,453; Dec. 16.

Morterud, Einar, Torderod, near Moss, Norway. Digester for sulphite wood pulp. 1,785,591; Dec. 16.

Morton, Rolla A., Long Beach, Calif., assignor to Western Wheeled Scraper Company, Aurora, Ill. Elevator. 1,785,141; Dec. 16.

Moss, Roscoe, Los Angeles, Calif., assignor to Roscoe Moss Company. Well-casing perforator. 1,785,419; Dec. 16.

Moss, Roscoe, Company. (See Moss, Roscoe, assignor.)

Motor Wheel Corporation. (See Valjean, Ben, assignor.)

Milcoff, Joseph E., Leetsdale, Pa., assignor to National Electric Products Corporation, New York, N. Y. Switch and outlet box. 1,785,524; Dec. 16.

Milhening, J., Inc. (See Bichele, Charles S., assignor.)

Miller, Clarence W., and R. E. Bissell, assignors to Thompson Products, Inc., Cleveland, Ohio. Composite metal article and making the same. 1,785,137; Dec. 16.

Miller, Harry L., assignor to Pettibone Mulliken Company, Chicago, Ill. Railway switch structure. 1,785,454; Dec. 16.

Miller, Henry, Lincoln, Nebr. Garment and seaming therefor. 1,784,942; Dec. 16.

Miller, Walter, assignor, by mesne assignments, to Continental Oil Company, Ponca City, Okla. Apparatus for cracking hydrocarbons. 1,785,042; Dec. 16.

Miller, William J., Sulphur, La. Automatic resetting spear. 1,785,590; Dec. 16.

Miner, W. H., Inc. (See Zweibel, Charles A., assignor.)

Minium, Abram E., assignor of one-half to G. J. Ornauer, T. E. Syman, and W. J. Heath, Denver, Colo. Brake mechanism. 1,785,203; Dec. 16.

Mississippi Glass Company. (See Kingsley, Charles B., assignor.)

Mross, Edward, assignor to Hamilton Beach Mfg. Co., Racine, Wis. Vacuum-cleaner-handle mounting. 1,785,043; Dec. 16.

Mueller, Herman G., assignor to Skinner Engine Company, Erie, Pa. Steam engine. 1,785,455; Dec. 16.

Müller, Ignaz, Vienna, Austria. Separator for light liquids. 1,784,943; Dec. 16.

Munters, Carl G., Stockholm, Sweden. Refrigeration. 1,785,700; Dec. 16.

Murray Company, The. (See Behle, Joseph, assignor.)

Murray, Norman D., Dartmouth, Nova Scotia, Canada. Blotter holder. 1,785,642; Dec. 16.

Napier Company, The. (See Schuelke, Emil A., assignor.)

Nasmith, John I., Erith, assignor to Vickers Limited, Westminster, England. Cutting and creasing press for paper, cardboard, or the like. 1,785,526; Dec. 16.

National Carbon Company. (See Hansen, C., and Ellson, assignors.)

National Cash Register Company, The. (See Frank, John P., assignor.)

National Electric Products Corporation. (See Milcoff, Joseph E., assignor.)

National Fireproofing Corporation. (See Babb, Edwin, assignor.)

National Foam System, Inc. (See Boyd, Fisher L., assignor.)

National Pneumatic Company. (See Rowntree, Harold, assignor.)

National Publishing Company. (See Flett, William, assignor.)

National Rubber Machinery Company. (See De Mattia, Barthold, assignor.)

National Turpentine Products Company, et al. (See Smith, Eugene B.)

Neilson, Mary D., Minneapolis, Minn. Making garments for women and children. Re17,903; Dec.16.

Nelson, Herman, Corporation. (See Armstrong, John A., assignor.)

Nelson, Oliver J., and F. G. Baender, assignors, by mesne assignments, to F. G. Baender, trustee, Parsons, Kans. Changeable sign. 1,785,204; Dec. 16.

Nerrlich, Richard, Berlin, Germany. Objective shutter. 1785,142; Dec. 16.

Newbrough, Walter F., assignor of one-half to W. Lamble, Wilmington, Calif. Machine for forming screw propellers. 1,784,972; Dec. 16.

New Haven Clock Company, The. (See Whitehead, Richard H., assignor.)

Nicholson, Coleman L., 2d, Syracuse, assignor to Pass & Seymour, Inc. Solvay, N. Y. Lamp receptacle. 1,785,205; Dec. 16.

Nicholson, Robert H., Meadville, Pa., assignor to Hookless Fastener Company. Separable fastener slider and making same. 1,785,420; Dec. 16.

Nickels, James, Silvis, Ill. Universal rafter-framing machine. 1,785,044; Dec. 16.

Nielsen, Hans P., Alameda, assignor to Eames Company, San Francisco, Calif. Brake structure for caster wheels. 1,785,421; Dec. 16.

Nielsen-Klodskov, Niels J., Ringster, Denmark. Highway signal. 1,785,422; Dec. 16.

Niven, Archie M., assignor to Continental Motors Corporation, Detroit, Mich. Internal-combustion engine. 1,785,556; Dec. 16.

Noack, Walter G., and J. de Freudenreich, Baden, Switzerland. Internal-combustion power plant. 1,785,643; Dec. 16.

Nollesche Werke Komm.-Ges. (See Kennel, Fritz, assignor.)

Nollesche Werke Komm.-Ges. (See Wollny, Karl, assignor.)

Nolze, Heinrich F. J., Kaiserslauten, Pfalz, Germany. Electric gas purifier. 1,785,592; Dec. 16.

Nord, Swan E., Seattle, Wash. Self-draining oil can. 1,785,388; Dec. 16.

Nordlund, Ludvig B., San Francisco, Calif. Toilet flusher. 1,784,944; Dec. 16.

Norgaard, Hal W., Burbank, assignor to Pacific Machinery Company, San Francisco, Calif. Fruit pitter. 1,785,014; Dec. 16.

Norling, Reinhold A., Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Venting means for pneumatic drills. 1,785,527; Dec. 16.

Northern Lignite Coal Company. (See Odell, William W., assignor.)

Northwest Engineering Corporation. (See Orloff, Arthur, assignor.)

Norton, Samuel H., assignor to Hookless Fastener Company, Meadville, Pa. Separable fastener. 1,785,715; Dec. 16.

Novak, Izador J., Bridgeport, Conn., assignor, by mesne assignments, to Raybestos-Manhattan, Inc. Friction element and making the same. 1,785,701; Dec. 16.

O'Bannon, Walter A., Tulsa, Okla., assignor to Walter O'Bannon Co. Slip socket. 1,785,644; Dec. 16.

O'Bannon, Walter, Co. (See O'Bannon, Walter A., assignor.)

Oberdorfer, Jonas L., assignor to M. L. Oberdorfer Brass Company, Syracuse, N. Y. Sump pump. 1,785,557; Dec. 16.

Oberdorfer, M. L., Brass Company. (See Oberdorfer, Jonas L., assignor.)

O'Brien, Falconer, assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich. Spring structure. 1,785,358; Dec. 16.

O'Dell, William W., Minneapolis, Minn., assignor, by mesne assignments, to Northern Lignite Coal Company, Chicago, Ill. Apparatus for carbonizing and distilling carbonaceous materials. 1,785,645; Dec. 16.

Oehm, F. M., et al. (See Shaw, James, assignor.)

O'Flaherty, Frederick. (See McLaughlin, G. D., Rockwell, O'Flaherty, and Highberger.)

Ogden, Daniel L. (See Burkey, H. M., and Ogden.)

Ohio Brass Company, The. (See Larsson, Ernst A., assignor.)

Ohio Brass Company, The. (See Matthes, Samuel S., assignor.)

Oil Well Supply Company. (See Greve, Edgard E., assignor.)

Oil Well Supply Company. (See Lemex, John D., assignor.)

Oil Well Supply Company. (See Lemex, J. D., and Smith, assignors.)

Oil Well Supply Company. (See Mack, Patrick H., assignor.)

Oldham, John M., assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich. Spring structure. 1,785,359; Dec. 16.

Oliver Iron & Steel Corporation. (See Fassinger, Charles, assignor.)

Oliver United Filters Inc. (See Zenthoefer, Joseph V., assignor.)

Olson, Andrew. (See Tufts, L. R., and Olson.)

Olson, Carl G., assignor to Shakeproof Lock Washer Company, Incorporated, Chicago, Ill. Mechanism for forming lock washers 1,785,281; Dec. 16.

Oonk, Harry, Phoenix, Ariz. Knockdown stove. 1,785 143; Dec. 16.

Oppe, Charles, New Haven, assignor to The G & O Manufacturing Company, New Haven, Conn. Engine-cooling radiator. 1,784,878; Dec. 16.

Orloff, Arthur, assignor to Northwest Engineering Corporation, Green Bay, Wis. Back digger. 1,785,942; Dec. 16.

Ornauer, Gustave J., et al. (See Minium, Abram E., assignor.)

O'Rourke, John F., New York, N. Y. Diving apparatus. 1,785,528; Dec. 16.

Ortiz, José A., New York, N. Y. Snow-hauling truck. 1,785,423; Dec. 16.

Osborne, John L., assignor to General Railway Signal Company, Rochester, N. Y. Bearing. 1,785,702; Dec. 16.

Ostro Research Laboratories, Inc. (See Ostromislensky, Iwan, assignor.)

Ostromislensky, Iwan, assignor to Ostro Research Laboratories, Inc., New York, N. Y. Alkyl-phenyl ether. 1,785,327; Dec. 16.

Ousdahl, Adolph, Seattle, Wash. Automatic coal burner. 1,785,456; Dec. 16.

Outboard Motors Corporation. (See Igerns, Finn T., assignor.)

Overton, Antoinette E., Houston, Tex. Musical instrument. 1,785,206; Dec. 16.

Owens-Illinois Glass Company. (See Simonis, Irving, assignor.)

Oxhandler, Leopold, Chicago, Ill. Embossing fiber sheets. 1,784,906; Dec. 16.

Pacher, Josef V., assignor to International Postal Supply Company, Brooklyn, N. Y. Fuel-supply apparatus. 1,785,094; Dec. 16.

Pacific Machinery Company. (See Anderson, Earl R., assignor.)

Pacific Machinery Company. (See Duncan, Arthur L., assignor.)

Pacific Machinery Company. (See Felizianetti, Narsete, assignor.)

Pacific Machinery Company. (See Goranson, Hjalmar and D., assignors.)

Pacific Machinery Company. (See Havens, Wilson W., assignor.)

Pacific Machinery Company. (See Norgaard, Hal W., assignor.)

Pacific Machinery Company. (See Thompson, Albert R., assignor.)

Pacific Machinery Company. (See Thompson, A. R., and Anderson, assignors.)

Pacific Machinery Company. (See Whipple, James B., assignor.)

Page, Stanley H., Los Gatos, Calif. Motor-temperature-controlling means. 1,785,207; Dec. 16.

Paisley, James A., assignor to The Valley Camp Coal Company, Cleveland, Ohio. Apparatus for use in loading mine cars. 1,785,593; Dec. 16.

Paisley, James A., assignor to The Valley Camp Coal Company, Cleveland, Ohio. Method of and apparatus for handling granular material. 1,785,594; Dec. 16.

Palace Poultry Car Company. (See Edgerton, Israel V., assignor.)

Papec Machine Company. (See Bullock, Fred J., assignor.)

Paredes, Evaristo, El Paso, Tex. Mouthpiece for pipes and cigar holders. 1,785,595; Dec. 16.

Parisian Novelty Co. (See Kahn, Louis E., assignor.)

Parker, C. Paul, trustee. (See Edstrom, Gustaf H., assignor.)

Parrella, Joseph A., Washington, D. C. Key case. Des. 82,846; Dec. 16.

Pascoo, Alex, Bronx, N. Y. Baby carriage. 1,785,646; Dec. 16.

Pass & Seymour, Inc. (See Nicholson, Coleman L., 2d., assignor.)

Patrick, Ella, Olathe, Colo. Cooling-fan attachment. 1,784,907; Dec. 16.

Patterson, Edgar W., Los Angeles, Calif, assignor to W. P. Lacy, W. G. Lacy, and C. A. Stiles. Flexible pipe assembly. 1,785,095; Dec. 16.

Paul, William L., Berkeley, Calif., assignor to Deere and Company, Moline, Ill. Disk harrow. 1,785,144; Dec. 16.

Pavloff, Steve, Camas, Wash. Smoker's pipe. 1,785,208; Dec. 16.

Payzant, Henry H., Everett, assignor to Weyerhaeuser Timber Company, Tacoma, Wash. Lumber package. 1,785,360; Dec. 16.

Pedrini, Eugenio, Turin, Italy. Carburetor for internal-combustion engines. 1,785,045; Dec. 16.

Peiler, Karl E., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for gathering glass. 1,785,209; Dec. 16.

Pelster, Edwin W., St. Louis, Mo. Combustion device. 1,785,046; Dec. 16.

Pennsylvania Crusher Company. (See Borton, George W., assignor.)

Perkins, B. F., & Son, Inc. (See Lade, Archibald, assignor.)

Persinger, James F., Lander, Wyo. Nonskid-chain tightener. 1,785,323; Dec. 16.

Peterson, Axel M., Denver, Colo. Anticreeping rail and cooperating tie plate for railways. 1,784,846; Dec. 16.

Peterson, Eugene, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic modulator circuit. 1,784,879; Dec. 16.

Peterson, Svend, Askov, Minn. Adjustable shim-holder cap. 1,785,596; Dec. 16.

Pettibone Mulliken Company. (See Miller, Harry L., assignor.)

Pfohl, Anthony J., Lockland, Ohio. Apparatus for molding bituminous materials. 1,785,457; Dec. 16.

Phillipson, Ferdinand, New York, N. Y. Combined spoon and clip. 1,784,880; Dec. 16.

Pickard, Frank C., Erie, Pa., assignor to The Standard Stoker Company, Incorporated. Conveyer for stokers. 1,785,282; Dec. 16.

Pieper, Alphonse F., Rochester, N. Y. Universal joint. 1,785,558; Dec. 16.

Piersol, Robert J., Pittsburgh, Pa. Controlling electroplating. 1,785,389; Dec. 16

Pinck, Louis A., Washington, D. C. Nitrating cellulose. 1,784,945; Dec. 16.

Pinneo, Walter R., Marshalltown, Iowa. Tire boot. 1,785,390; Dec. 16.

Pittock, John W. (See Powling, William T., assignor.)

Plainville Stock Company. (See Weisman, Julius, assignor.)

Podszus, Emil, Berlin-Friedrichshagen, assignor to Hartstoff-Metall Aktiengesellschaft (Hametag), Berlin-Copenick, Germany. Producing lamelliform metal powders. 1,785,283; Dec. 16.

Pollan, H. T. (See Bresler, Louis L., assignor.)

Polson, Alexander. (See Eckersley, James E., assignor.)

Ponti, Arthur J., Los Angeles, Calif. Stress and strain compensating joint for rotary well-drilling columns. 1,785,559; Dec. 16.

Portable Adding Machine Company. (See Barrett, Glenn J., assignor.)

Powell, John, Kokomo, Ind. Corn-harvesting machine. 1,785,647; Dec. 16.

Powling, William T., London, England, assignor to J. W. Pittock, Philadelphia, Pa. Apparatus for recovery of fats, oils, or oleaginous substances from materials yielding them. 1,785,361; Dec. 16.

Pratt, Carl D., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Blasting-explosive assembly. 1,785,529; Dec. 16.

Pratt & Whitney Company. (See Hoagland, Frank O., assignor.)

Preston, Robert, Gisborne, New Zealand. Milk measuring and sampling means. 1,784,973; Dec. 16.

Proctor, Robert V., assignor to The Commercial Shearing & Stamping Company, Youngstown, Ohio. Tunnel. 1,785,096; Dec. 16.

Prodorite S. A. (See Lévy, Marcel, assignor.)

Pugh, John W., assignor to Rudge-Whitworth, Limited, Coventry, England. Brake drum. 1,785,424; Dec. 16.

Pugsley, Edwin, New Haven, Conn., assignor, by mesne assignments, to Winchester Repeating Arms Company. Making plated shot. 1,785,493; Dec. 16.

Pyle-National Company, The. (See Dake, Charles W., assignor.)

Quast, Otto K., Spokane, Wash. Pneumatic aircraft-propelling means. 1,785,458; Dec. 16.

Quinby, Edwin J., Yonkers, N. Y., assignor to Radio Corporation of America. Cutting phonograph records. 1,785,047; Dec. 16.

Rabert, José S., Barcelona, Spain. Spinning and twisting machine. 1,785,560; Dec. 16.

Radio Corporation of America. (See Brandsma, W. F., Dijksterhuis, Sizoo, and Jonas, assignors.)

Radio Corporation of America. (See Quinby, Edwin J., assignor.)

Radio Corporation of America. (See von Ardenne, M., and Heinert, assignors.)

Radnor, Jess C. (See Smoot, Jesse C.)

Raffinerie Tirlemontoise Societe Anonyme. (See Bergé, Julien, assignor.)

Rah, Joseph, assignor to G. and W. Electric Specialty Company, Chicago, Ill. Insulating joint. 1,784,881; Dec. 16.

Rassel, Edward C., Mio, Mich. Railroad tie. 1,785,324; Dec. 16.

Ratigan, James P., Los Angeles, Calif. Bearing for pump-operating members. Re17,904; Dec. 16.

Ray, Joshua R. and T., Manistee, Mich. Crystallization. 1,785,530; Dec. 16.

Ray, Thomas. (See Ray, Joshua R. and T.)

Raybestos-Manhattan, Inc. (See Novak, Izador J., assignor.)

Raymond, Fred I., River Forest, Ill. Apparatus for controlling heating systems. 1,785,425; Dec. 16.

Raymond, Fred I., River Forest, Ill. Heating. 1,785,426; Dec. 16.

Raymond, Gwynne, Kansas City, Mo. Dispensing device. 1,785,097; Dec. 16.

Reclamation Company, The. (See Holt, G. J., and Longevin, assignors.)

Reece, Joseph A. (See Rowley, C. A., and Reece.)

Reedy, Alfred J., assignor to A-B Stove Company, Battle Creek, Mich. Gas stove. Des. 82,850; Dec. 16.

Reel, Herbert W., Hinsdale, assignor to The United States Gypsum Company, Chicago, Ill. Tile-forming machine. 1,784,847; Dec. 16.

Regan, Eugene A., Oakland, Calif. Hinge structure. 1,785,362; Dec. 16.

Regan, Joseph C., West Hartford, assignor to The E. Horton & Son Company, Windsor Locks, Conn. Differential chuck. 1,784,908; Dec. 16.

Reichard, Wade H., assignor to General Railway Signal Company, Rochester, N. Y. Automatic train-control system. 1,785,703; Dec. 16.

Reichle, Carl J., Detroit, Mich., assignor to Alvey Manufacturing Company, St. Louis, Mo. Bearing for conveyer rollers. 1,784,848; Dec. 16.
Reinhard, Silas G., Toledo, Iowa. Connecting-rod bearing. 1,785,459; Dec. 16.
Renck, Heinrich, Hamburg, Germany. Production of printing. 1,785,210; Dec. 16.
Repp, Clinton B., Plainfield, N. J. Nutcracker. 1,785,328; Dec. 16.
Republic Steel Corporation. (See Bowman, Kiel B., assignor.)
Revel, Louis, Le Vigan, France. Filter press. 1,785,494; Dec. 16.
Reynolds, John L., Long Island City, N. Y., assignor, by mesne assignments, to Electrical Research Products Inc. System for electrically transmitting and reproducing sound. 1,785,048; Dec. 16.
Rhodes, William T., Mariposa, Calif. Surveying instrument. 1,785,284; Dec. 16.
Rice, Oscar, Chicago, Ill. Concrete anchor. 1,785,648; Dec. 16.
Rich, Cuyler W. (See Rich, Stelmer D., assignor.)
Rich, Stelmer D., assignor of one-half to C. W. Rich, Newport, Me. Air heater. 1,785,649; Dec. 16.
Richard, Clement C., assignor to Allied Products Corporation, Detroit, Mich. Punch and die retainer. 1,785,495; Dec. 16.
Richter, George A., assignor to Brown Company, Berlin, N. H. Pulp making and apparatus therefor. 1,784,849; Dec. 16.
Ridler, Earl S. (See Corson, H. P., and Ridler.)
Riess, Peter. (See Fisher, Robert W., assignor.)
Riker, Samuel M., Chester, N. J. Shoe ornament. Des. 82,847; Dec. 16.
Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 82,848; Dec. 16.
Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 82,849; Dec. 16.
Riley, Eva M., Glenwood City, Wis. Detachable cover for umbrellas. 1,785,561; Dec. 16.
Rimer, Foister S., Washington, D. C. Toy aeroplane. 1,784,946; Dec. 16.
Riviere, Albert S., Evanston, assignor to Union Special Machine Company, Chicago, Ill. Rug-tufting machine. 1,785,650; Dec. 16.
Robertson, H. H., Company. (See Black, George E., assignor.)
Robertson, John H., London, England. Centrifugal governor. 1,785,285; Dec. 16.
Robischon, Ernest W., Mount Vernon, N. Y., assignor of one-half to F. Chodorov and one-half to Step-In-All Underwear Corporation. Underwear garment. 1,785,286; Dec. 16.
Rocks, Harry, jr., Torrance, Calif. Auto thriller and amusement apparatus. 1,785,363; Dec. 16.
Rockwell, George H. (See McLaughlin, G. D., Rockwell, O'Flaherty, and Highberger.)
Rocquin, Camille J., New Orleans, La. Rake. 1,784,947; Dec. 16.
Roesch, Alfred, and J. Roettinger, Rahway, N. J. Weeding tool. 1,785,531; Dec. 16.
Roettinger, John. (See Roesch, A., and Roettinger.)
Rogers, John F., Cleveland Heights, assignor to The Wellman Engineering Company, Cleveland, Ohio. Gas producer. 1,784,882; Dec. 16.
Rogers, Walter F., assignor to Crown Stove Works, Cicero, Ill. Gas stove. Des. 82,851; Dec. 16.
Roll, Edwin B., Los Angeles, Calif. Sign. 1,785,145; Dec. 16.
Rollins, Frank S. (See Hamilton, William F., assignor.)
Rolnick, Harry, assignor of fifty per cent to Byer-Rolnick Company, Dallas, Tex. Hat brim. 1,785,325; Dec. 16.
Rolph, Benjamin M., Dixon, Ill. Cultivating device. 1,784,974; Dec. 16.
Romagnoli, Tito, Bologna, Italy. Sun-heat motor. 1,785,651; Dec. 16.
Rome Company, The. (See Gerlowski, Anthony, assignor.)
Romine, Robert T., Mount Clemens, Mich. Method and apparatus for shipping metal. 1,784,909; Dec. 16.
Rosenblatt, Isidor, New York, N. Y. Lighting fixture or article of similar nature. Des. 82,852; Dec. 16.
Rosman, Aron, Brooklyn, N. Y. Vehicle body. 1,784,975; Dec. 16.
Ross, Oscar A., New York, assignor to General Railway Signal Company, Rochester, N. Y. Check light signal. 1,785,704; Dec. 16.
Rowley, Clifford A., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Apparatus for cutting sheet glass. 1,785,496; Dec. 16.
Rowley, Clifford A., Chicago, Ill., and J. A. Reece, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Drawing sheet glass. 1,785,497; Dec. 16.
Rowntree, Bernard, Carmel Highlands, Calif. Sliding-door hanger. 1,784,910; Dec. 16.
Rowntree, Harold, Scarsdale, assignor to National Pneumatic Company, New York, N. Y. Compensating switch. 1,784,883; Dec. 16.
Royal Typewriter Company. (See Handley, George F., assignor.)
Rudd, Harry B., Douglaston, N. Y. Method of and apparatus for utilizing phase-changeable material. 1,785,326; Dec. 16.
Rudge-Whitworth, Limited. (See Pugh, John V., assignor.)
Rudy, Ulysses S. (See Anderson, R. O., Rudy, and Gessel.)
Rupprecht, Konrad. (See Weiske, P., and Rupprecht.)
Rupprecht, Konrad, Berlin, and R. Dietze, Pankow, Germany, assignors to General Electric Company. Motor-control system. 1,785,597; Dec. 16.
Rush, Albert, assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Door for hangars and other structures. 1,784,948; Dec. 16.
Russ Manufacturing Company, The. (See Seitz, Dean C., assignor.)
Russell, John R., Sterling, Ill. Quilting machine. 1,785,049; Dec. 16.
Russell Manufacturing Company, The. (See Russell, Thomas M., assignor.)
Russell, Thomas M., assignor to The Russell Manufacturing Company, Middletown, Conn. Making brake bands and the like. 1,785,391; Dec. 16.
Ryan, Edward, Knox, Ind., and E. R. Funk, Galesburg, Ill., assignors to The Standard Stoker Company, Incorporated, New York, N. Y. Locomotive tender. 1,785,287; Dec. 16.
Safetee Glass Company. (See Hackett, R. W., and Worrall.)
Sagendorph, William K., executor. (See Hopkins, George F.)
Saginaw Manufacturing Co. (See Gilbert, Henry J., assignor.)
St. Regis Paper Company. (See Kendall, Marvin R., assignor.)
St. Regis Paper Company. (See Marsh, Esli A., assignor.)
Sanders, Leon, et al. (See Seidel, Morris, assignor.)
Sandwich Manufacturing Co. (See Hartman, Edward, assignor.)
Sangamo Electric Company. (See De Long, Charles E., assignor.)
Santangelo, Giuseppe, New York, N. Y. Safety means for motor vehicles. 1,785,598; Dec. 16.
Sasser, Edward C., Washington, D. C. Safety razor. 1,785,652; Dec. 16.
Savageau, Fred L., Denver, Colo., assignor to Independence Coffee and Spice Company. Bag closure and support. 1,785,498; Dec. 16.
Sawford, Frank, jr. (See Sawford, Frank, assignor.)
Sawford, Frank, jr. (See Sawford, Frank and F., jr.)
Sawford, Frank, assignor of one-half to F. Sawford, jr., Vancouver, British Columbia, Canada. Apparatus for determining the density of smoke. 1,785,393; Dec. 16.
Sawford, Frank and F., jr., Vancouver, British Columbia, Canada. Device for indicating and recording the quality of smoke. 1,785,392; Dec. 16.
Sayers, Fred, Yonkers, N. Y. Building block. 1,785,499; Dec. 16.
Scaife, Wm. B., & Sons Co. (See Duden, Emil G., assignor.)
Schenkel, Moritz, Berlin-Charlottenburg, Germany, assignor to Westinghouse Electric & Manufacturing Company. Corona elimination in dynamo-electric machines. 1,784,997; Dec. 16.
Schiff, Sigmund, assignor to The J. H. Day Compsny, Cincinnati, Ohio. Differential-speed agitator drive. 1,785,562; Dec. 16.
Schiff, Sigmund, assignor to The J. H. Day Company, Cincinnati, Ohio. Egg whip and the like. 1,785,563; Dec. 16.
Schlitters, Michael J., jr., and S. Imerman, Detroit, Mich. Tool-retaining device. 1,784,911; Dec. 16.
Schlotter, Georg A., Dresden, Germany, assignor of ten per cent to R. Suczek, New York, N. Y. Pump or the like. 1,785,460; Dec. 16.
Schmerler, Joseph J., New York, N. Y. Combined opener and closure for paper milk containers. 1,785,599; Dec. 16.
Schmid, Alfred, Vienna, Austria. Ceiling construction. 1,785,050; Dec. 16.
Schmid, Ferdinand A. F., Rosemary, N. C., assignor to Draper Corporation, Hopedale, Mass. Filling-replenishing loom. 1,785,227; Dec. 16.
Schmidt, Henry F., Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company. Discharge louver. 1,785,228; Dec. 16.
Schmolka, Herbert. (See Kastner, R., and Schmolka.)
Schnabel, Alfred, New York, N. Y. Baby carriage or the like. 1,784,976; Dec. 16.
Schnoor, Raymond D., Park Ridge, Ill. Fuel-signal device. 1,785,329; Dec. 16.
Schoenrock, Otto R., Chicago, Ill. Internal-combustion engine. 1,785,146; Dec. 16.
Schon, Lester. (See Shoenberg, M. H., and Schon.)
Schoonmaker, William J., New York, N. Y. Moving-picture screen for use in connection with sound pictures. 1,785,330; Dec. 16.
Schroeder, Charles, and H. Tatosian, assignors to Ice Cream Cone Machinery Inc., Bridgeport, Conn. Batter-feeding device for pastry-cake machines. 1,785,394; Dec. 16.
Schröter, Fritz, Berlin, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Picture transmission. 1,784,850; Dec. 16.
Schuelke, Emil A., assignor to The Napier Company, Meriden, Conn. Combined desk blotter and box. 1,785,229; Dec. 16.
Schulhoff, Saul, Baltimore, Md. Steel-wool holder. 1,785,653; Dec. 16.

CARNEGIE LIBRARY OF ATLANTA

Schumer, John, Cincinnati, Ohio. Ornamented jewelry. 1,785,364; Dec. 16.
Schwantes, Julius A., Wauwatosa, Wis., assignor to Colgate-Palmolive-Peet Company, Chicago, Ill., Apparatus for producing shredded soap. 1,785,532; Dec. 16.
Schwantes, Julius A., Wauwatosa, Wis., assignor to Colgate-Palmolive-Peet Company, Chicago, Ill. Soap manufacture. 1,785,533; Dec. 16.
Schwartz, Frank, New York, N. Y. Micrometric drawing instrument. 1,785,500; Dec. 16.
Schweigert, Frederick, New York, N. Y. Push-broom-handle bracket. 1,785,564; Dec. 16
Schweitzer, William K., assignor to The Grasselli Chemical Company, Cleveland, Ohio. Sulphonated mineral oils as addition agents to zinc-chloride-base fluxes. 1,785,147; Dec. 16.
Scofield, Theodore J., assignor to The Sparks-Withington Company, Jackson, Mich. Socket sleeve. 1,785,211; Dec. 16.
Scott, Beatrice P., Marblehead, Mass. Stencilling. 1,784,912; Dec. 16.
Scott, Beatrice P., Marblehead, Mass. Reproducing process. 1,784,913; Dec. 16.
Scott and Williams, Inc. (See Swinglehurst, Harry, assignor.)
Scovill Manufacturing Company. (See Boden, George, assignor.)
Searles, Raymond R., assignor to The Fafnir Bearing Company, New Britain, Conn. Antifriction spring connection. 1,785,654; Dec. 16.
Searles, Raymond R., and E. H. Cooper, assignors to The Fafnir Bearing Company, New Britain, Conn. Vehicle-spring bearing. 1,785,655; Dec. 16.
Seaward, Delaska E., Oklahoma City, Okla. Preserving eggs. 1,785,461; Dec. 16.
Sebrell, Lorin B., and J. Teppema, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Preparing thiazoles. 1,785,656; Dec. 16.
Secor, John A., assignor to Advance-Rumely Company, La Porte, Ind. Method of and apparatus for reatomizing fuel. 1,785,501; Dec. 16.
Seidel, Morris, Brooklyn, assignor of fifty per cent to L. Sanders, Woodmere, Long Island, and G. Green, Brooklyn, N. Y. Automatic boiler-control and water-heating device. 1,785,098; Dec. 16.
Sell, Gilbert E., Newark, N. J., assignor to Koppers Company, Pittsburgh, Pa. Removal of naphthalene and carbon bisulphide from gases. 1,785,365; Dec. 16.
Seitz, Dean C., assignor to The Russ Manufacturing Company, Cleveland, Ohio. Sirup pump. 1,784,977; Dec. 16.
Selden Research & Engineering Corporation, The. (See Jaeger, Alphons O., assignor.)
Selectograph Company. (See Golinick, P. A., and Broderick, assignors.)
Sengpiel, William S. (See Clark, L. H., and Sengpiel.)
Service Casters & Truck Co., The. (See Zeindler, Werner, assignor.)
Seymour, Charles H., Kansas City, Mo. Metal-bearing member and treating same. 1,785,502; Dec. 16.
Shakeproof Lock Washer Company. (See Olson, Carl G., assignor.)
Shakespeare Company. (See Bokelund, Harry A., assignor.)
Shaner, George A., R. E. Damp, Tulsa, and G. G. Donovan, Seminole, Okla., assignors to Standard Oil Development Company. Method and apparatus for cleaning pipe lines. 1,785,230; Dec. 16.
Shannon, James L., Longmeadow, Mass. Flash-light casing. Des. 82,853; Dec. 16.
Shaw, James, Lodi, Calif., assignor of one-third to C. H. Oehm and F. M. Oehm, Brooklyn, N. Y. Piston-ring peener. 1,785,212; Dec. 16.
Shaw, John C., and R. D. Shaw, assignors to Keller Mechanical Engineering Corporation, Brooklyn, N. Y. Zeroizing scale for work-positioning mechanism for machine tools. 1,785,395; Dec. 16.
Shaw, Robert D. (See Shaw, John C. and R. D.)
Sheffold, Charles, Clinton, Conn. Knee protector for trousers. 1,785,396; Dec. 16.
Shepherdson, Arnold, and S. Thornley, Blackley, Manchester, assignors to British Dyestuffs Corporation, Limited, Manchester, England. Manufacture of pyranthrone derivatives. 1,785,600; Dec. 16.
Shepherdson, Arnold, and S. Thornley, Blackley, Manchester, assignors to British Dyestuffs Corporation, Limited, Manchester, England. Manufacture of pyranthrone derivatives. 1,785,601; Dec. 16.
Sherman, Warren S., Oklahoma City, Okla. Street marker. 1,785,602; Dec. 16.
Sherts, James H., Glenn Ridge, N. J., assignor to Duplate Corporation. Preparing composite glass for sealing. 1,785,099; Dec. 16.
Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Suspender-end top link. Des. 82,854; Dec. 16.
Shively, Walter E., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Pneumatic tire. 1,785,657; Dec. 16.
Shoenberg, Milton H., and L. Schon, San Francisco, Calif.; said Schon assignor to said Shoenberg. Signaling system. 1,785,366; Dec. 16.
Shoenberg, Milton H., and L. Schon, San Francisco, Calif.; said Schon assignor to said Shoenberg. Automobile signaling system. 1,785,397; Dec. 16.
Shotwell, Joseph E., Chowchilla, Calif. Knee pad. 1,785,213; Dec. 16.
Sidebotham, Melvin H. (See La Bombard, L. E., and Sidebotham.)
Siemens Planiawerke Aktiengesellschaft für Kohlefabrikate. (See Kuhlmann, Clemens, assignor.)
Siever, Carl H., Oak Park, Ill. Coating composition and preparing the same. 1,785,367; Dec. 16.
Sikes Company, The. (See Clark, L. H., and Sengpiel, assignors.)
Simmons, Parker T., East Hampton, N. Y. Baseball game and apparatus. 1,785,148; Dec. 16.
Simonis, Irving, assignor to Owens-Illinois Glass Company, Toledo, Ohio. Leer feeder. 1,785,534; Dec. 16.
Simpson, John O. (See Large, W. J., and Simpson.)
Simpson, John O., assignor to The E. Ingraham Co., Bristol, Conn. Metal base for nickel clocks. 1,785,231; Dec. 16.
Sims, Richard J., Ottawa, Ontario, Canada. Milk-bottle holder. 1,785,232; Dec. 16.
Siptrott, Paul, New York, N. Y. Ornamental frame for alarm clocks. 1,785,233; Dec. 16.
Sizoo, Gerardus J. (See Brandsma, W. F., Dijksterhuis, Sizoo, and Jonas.)
Skiles, Henry D. (See Hiatt, William F., assignor.)
Skinner Engine Company. (See Mueller, Herman G., assignor.)
Sloan, Theodore H., Charleroi, Pa., assignor to Macbeth-Evans Glass Company. Forming thin-walled glass articles. 1,785,535; Dec. 16.
Sloane, Reginald G. (See Becker, A. E., and Sloane.)
Smith, A. O., Corporation. (See Andren, Birger, assignor.)
Smith, Arthur E., Los Angeles, Calif. Hypodermic syringe. Re17,906; Dec. 16.
Smith, Dewey R. (See Lemex, J. D., and Smith.)
Smith, Eugene B., assignor to E. W. Colledge, trustee for National Turpentine Products Company, Jacksonville, Fla., and American Turpentine & Tar Company, Ltd., New Orleans, La. Converting turpentine and pine-tar oils into heavier oils. 1,784,949; Dec. 16.
Smith, Harry M., Alameda, Calif. Vehicle stop signal. 1,784,884; Dec. 16.
Smith, James F., assignor to Switlik Manufacturing Company, Inc., Trenton, N. J. Padded upholstery, harness, and pack for aircraft chairs. 1,784,996; Dec. 16.
Smith, John W., assignor to The Fafnir Bearing Company, New Britain, Conn. Spring shackle. 1,785,685; Dec. 16.
Smith, John W., assignor to The Fafnir Bearing Company, New Britain, Conn. Spring-end connection. 1,785,686; Dec. 16.
Smith, Ralph E., assignor to The Gallon Metallic Vault Company, Gallon, Ohio. Grave vault. Des. 82,855; Dec. 16.
Smith, Walter, Harrow-on-the-Hill, England. Feed-water regulator. 1,785,149; Dec. 16.
Smith, William H., Detroit, Mich. Combined ore-reducing and hydrocarbon-refining apparatus. 1,785,427; Dec. 16.
Smith, William H., Detroit, Mich. Producing ore and converting hydrocarbons. 1,785,428; Dec. 16.
Smoot, Jesse C., Lincolnton, N. C., now by judicial change of name J. C. Radnor. Power transmission. 1,785,051; Dec. 16.
Snyder, Frederick T., New Canaan, Conn. Apparatus for distilling solid carbonizable materials. 1,785,565; Dec. 16.
Solodar, David, Ephrata, Pa. Advertising device. 1,785,100; Dec. 16.
Sorensen, Henry, San Francisco, Calif. Tension-holding member for concrete-reenforcement-tensioning devices. 1,785,214; Dec. 16.
Soubier, Leonard D. (See Hoge, J. R., and Soubier.)
Soubier, Leonard D., and E. J. Carl, Toledo, Ohio, assignors to American Patents Corporation. Game apparatus. 1,785,150; Dec. 16.
Spaeth, Frank and T., Hamden, Conn. Dry mop. 1,785,536; Dec. 16.
Spaeth, Tamara. (See Spaeth, Frank, and T.)
Spanner, Hans J. (See Meyer, F., and Spanner.)
Sparks-Withington Company, The. (See Scofield, Theodore J., assignor.)
Specialty Automatic Machine Co. (See La Bombard, L. E., and Sidebotham, assignors.)
Specialty Sales Company. (See McCorkindale, William P., assignor.)
Spencer, George M., St. Louis, Mo. Elastic-fluid dust separating and collecting system. 1,785,331; Dec. 16.
Sperry Gyroscope Company. (See Bates, Mortimer F., assignor.)
Splitdorf Electrical Company. (See Toegel, Herbert J., assignor.)
Sponable, Earl I., assignor to Fox Case Corporation, New York, N. Y. Film punch. 1,785,215; Dec. 16.
Sprague, Charles B., Portland, Oreg. Knife-holding means for chipping machines. 1,785,151; Dec. 16.
Spring, Laverne W., assignor to Crane Co., Chicago, Ill. Apparatus for desulphurizing cast iron. 1,785,503; Dec. 16.
Springstead, Ralph L. (See Johnson, Samuel W., assignor.)
Standard Coupler Company. (See Goodwin, Ernest G., assignor.)

Standard Oil Company. (See Lambert, Joseph H., assignor.)
Standard Oil Development Company. (See Becker, A. E., and Sloane, assignors.)
Standard Oil Development Company. (See Lavirotte, Francois, assignor.)
Standard Oil Development Company. (See Loomis, N. E., Tomlinson, and Howard, assignors.)
Standard Oil Development Company. (See Shaner, G. A., Damp and Donovan, assignors.)
Standard Stoker Company Inc. (See Lower, Nathan M., assignor.)
Standard Stoker Company, The. (See Pickard, Frank C., assignor.)
Standard Stoker Company, The. (See Ryan, E., and Funk, assignors.)
Stanley, Howard and R., Dunbar, W. Va. Valve for air gauges. 1,785,638; Dec. 16.
Stanley, Rufus. (See Stanley, Howard and R.)
State, Will C., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-building machine. 1,785,659; Dec. 16.
Staud, Cyril J. (See Webber, C. S., and Staud.)
Staude, Edwin G., Minneapolis, Minn. Automatic brake control for power-propelled vehicles. 1,785,052; Dec. 16.
Steele, Carmi J., assignor of one-third to R. C. Troeger and one-third to W. R. Coates, Los Angeles, Calif. Bathtub. Des. 82,856; Dec. 16.
Steele, Carmi J., assignor of one-third to R. C. Troege and one-third to W. R. Coates, Los Angeles, Calif. Bathtub. Des. 82,857; Dec. 16.
Steel-Mash Road Surface Company, The. (See Dunker, Louis H. A., assignor.)
Stein, Samuel F., Williamsport, Pa. Operating mechanism for sewing machines. 1,785,462; Dec. 16.
Step-In-All Underwear Corporation. (See Robischon, Ernest W., assignor.)
Stevens, Douglas R., Denver, Colo. Flanging machine. 1,785,537; Dec. 16.
Stewart, Elmer, et al. (See Lambert, William C., assignor.)
Stiemke, Walter H. (See Jett, George C., assignor.)
Stiles, C. A., et al. (See Patterson, Edgar W., assignor.)
Stodder, Clement K., Brookline, Mass. Filling and binding composition. 1,785,053; Dec. 16.
Stodder, Clement K., Brookline, Mass. Producing soap powder from soap stock high in fatty acid. 1,785,054; Dec. 16.
Stone, Albert L. (See Stone, Frederick and A. L.)
Stone, Frederick, Los Angeles, and A. L. Stone, Redondo Beach, assignors to Doheny-Stone Drill Co., Los Angeles, Calif. Overshot. 1,785,152; Dec. 16.
Stone, J., & Company Limited. (See Honey, Alfred E., assignor.)
Steut Manufacturing Company. (See Krause, Hermann, assignor.)
Strand, Nels A., Evanston, Ill. Driving mechanism. 1,785,055; Dec. 16.
Strassheim, Christopher. (See Hawes, Charles L., assignor.)
Streitwolf, Karl, Frankfort-on-the-Main, and A. Fehrle, Bad-Soden-on-the-Taunus, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Thiosemicarbazones of hydroxy arsenobenzenes and preparing the same. 1,785,660; Dec. 16.
Strickland, Silas A., and T. Zimmerman, assignors to Bower Roller Bearing Company, Detroit, Mich. Roller bearing. 1,784,914; Dec. 16.
Strongson, Herman L., New York, N. Y. Duplex receptacle. 1,785,463; Dec. 16.
Studwell, Henry A., Stamford, Conn. Escape tube for submarines. 1,784,915; Dec. 16.
Stuebing, William, jr., Cincinnati, Ohio, assignor, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn. Truck. 1,785,368; Dec. 16.
Stuebing, William, jr., Cincinnati, Ohio, assignor, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn. Lift truck. 1,785,369; Dec. 16.
Styll, Harry H., Southbridge, Mass. Link bridge for ophthalmic mountings. 1,784,916; Dec. 16.
Suczek, Robert. (See Schlotter, Georg A., assignor.)
Sullivan Machinery Company. (See Boudette, Cornelius G., assignor.)
Sullivan Machinery Company. (See Holmes, Morris P., assignor.)
Sundback, Gideon, assignor to Hookless Fastener Company, Meadville, Pa. Separable fastener. 1,785,234; Dec. 16.
Surface Combustion Co., The. (See Cochran, Ralf S., assignor.)
Sutherland, Daniel M., jr., Morrisville, Pa., assignor, by mesne assignments, to Better Packages, Inc., Shelton, Conn. Porous fibrous material. 1,785,101; Dec. 16.
Suzuki, Tsuneo, H. Tanako, Tokyo, and T. Kurita, Tokyo Prefecture, assignors to Zaidan Hojin Rikagaku Kenkyujo, Tokyo, Japan. Preparing pure alumina. 1,785,464; Dec. 16.
Swanson, John E., Jamaica Plain, Mass. Increaser for lasts. 1,785,153; Dec. 16.
Swarthout, James B., Elmira, N. Y. Golf scoring device. 1,785,288; Dec. 16.
Swift & Company. (See McDonald, William, assignor.)
Swinglehurst, Harry, Orange, N. J., assignor to Scott and Williams, Inc., New York, N. Y. Segmental cam ring. 1,785,603; Dec. 16.
Switlik Manufacturing Company. (See Smith, James F., assignor.)
Syman, Theodore E., et al. (See Minium, Abram E., assignor.)
Symington, T. H., & Son, Inc. (See Symington, Thomas H., assignor.)
Symington, Thomas H., assignor to T. H. Symington & Son, Inc., Baltimore, Md. Railway-car-truck bolster. 1,785,056; Dec. 16.
Symmes, Whitman, San Francisco, assignor to A. S. Blake, Berkeley, Calif. Oil-burning process. 1,785,154; Dec. 16.
Tanaka, Hiroshi. (See Suzuki, T. Tanaka, and Kurita.)
Tanners' Council of the United States of America. (See McLaughlin, G. D., Rockwell, O'Flaherty, and Highberger, assignors.)
Tasker, Homer G. (See Gary, L. A., and Tasker.)
Tatosian, Harry. (See Schroeder, C., and Tatosian.)
Taylor, Edward A., assignor to The Grasselli Chemical Company, Cleveland, Ohio. Zinc-chloride-base flux. 1,785,155; Dec. 16.
Taylor, Herbert B., assignor to General Railway Signal Company, Rochester, N. Y. Circuit controller. 1,785,705; Dec. 16.
Taylor, Herbert B., assignor to General Railway Signal Company, Rochester, N. Y. Train control. 1,785,706; Dec. 16.
Taylor, Hugh S., Jackson Heights, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Testing apparatus. 1,784,978; Dec. 16.
Tellefsen, Theodore J., assignor to The J. H. Day Company, Cincinnati, Ohio. Elevating pulverulent materials. 1,785,604; Dec. 16.
Temple, Floyd L., Terre Haute, Ind. Burial vault. 1,785,156; Dec. 16.
Teppema, Jan. (See Sebrell, L. B., and Teppema.)
Thauss, Alfred. (See Mauthe, G., and Thauss.)
Third Dimension Pictures, Inc. (See Burkhardt, Jacob, assignor.)
Thom, Gustav A., West Allis, Wis. Headlight. 1,785,332; Dec. 16.
Thomas, Edward G., assignor to Toledo Scale Company, Toledo, Ohio. Flow-controlling scale. 1,785,370; Dec. 16.
Thompson, Albert R., San Jose, assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif. Fruit pitter. 1,785,015; Dec. 16.
Thompson, Albert R., San Jose, assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif. Fruit pitter. 1,785,016; Dec. 16.
Thompson, Albert R., San Jose, assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif. Fruit-pitting machine. 1,785,017; Dec. 16.
Thompson, Albert R., San Jose, assignor to Pacific Machinery Company, San Francisco, Calif. Fruit-pitting apparatus. 1,785,018; Dec. 16.
Thompson, Albert R., San Jose, and E. R. Anderson, Los Angeles, assignors to Pacific Machinery Company, San Francisco, Calif. Fruit pitter. 1,785,019; Dec. 16.
Thompson, Howard A., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,784,851; Dec. 16.
Thompson, Lorenzo D., assignor to The F-N Company, Chicago, Ill. Liquid-dispensing apparatus. 1,784,852; Dec. 16.
Thompson, Louis W., Schenectady, N. Y., assignor to General Electric Company. Regulator. 1,785,566; Dec. 16.
Thompson Products, Inc. (See Miller, C. W., and Bissell, assignors.)
Thornley, Sidney. (See Shepherdson, A., and Thornley.)
Thornton, Leslie M., Kansas City, Mo. Reversible mop head. 1,785,216; Dec. 16.
Tiffany, Homer A., Clifton, N. J. Oil-burning apparatus. 1,784,853; Dec. 16.
Tilburn, Albert E., Melbourne, Victoria, Australia. Producing and displaying changeable signs for advertising purposes. 1,785,429; Dec. 16.
Toegel, Herbert J., Elizabeth, assignor to Splitdorf Electrical Company, Newark, N. J. Electric pick-up for phonograph records. 1,785,157; Dec. 16.
Toledo Scale Company. (See Hurt, Samuel N., assignor.)
Toledo Scale Company. (See Thomas, Edward G., assignor.)
Tomita, Urasaburo, Astoria, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 82,858; Dec. 16.
Tomlinson, Albert H. (See Loomis, N. E., Tomlinson, and Howard.)
Tornberg, Isidor, Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Ink-fountain drive. 1,785,158; Dec. 16.
Treadwell, M. H., Company. (See Astrom, Carl P., assignor.)
Trebes, Bruno M. A., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for covering cores. 1,785,398; Dec. 16.
Trevert, Henry L. F., Canandaigua, N. Y. Brake mechanism. 1,785,057; Dec. 16.
Trey, Serge, Stamford, Conn. Helicopter. 1,785,333; Dec. 16.
Tridex Corporation. (See Crickmer, Charles S., assignor.)

Troeger, Roy C., et al. (See Steele, Carmi J., assignor.)
Trotter, Henry R., assignor to Hacker Manufacturing Company, Chicago, Ill. Printing press. 1,785,504; Dec. 16.
Trotter, Henry R., assignor to Hacker Manufacturing Company, Chicago, Ill. Printing press. 1,785,505; Dec. 16.
Troy, Seymour, New York, N. Y. Woman's shoe. Des. 82,859; Dec. 16.
Troy, Seymour, New York, N. Y. Woman's shoe. Des. 82,860; Dec. 16.
Trumbull Electric Manufacturing Company, The. (See Hammerly, Herman J., assignor.)
Tucker, John W., Beaumont, Tex. Balanced valve. 1,785,289; Dec. 16.
Tufts, Lesley R., East Cleveland, and A. Olson, assignors to The Cleveland Folding Machine Company, Cleveland, Ohio. Paper deflector. 1,784,854; Dec. 16.
Tufts, Lesley R., and A. Olson, assignors to The Cleveland Folding Machine Company, Cleveland, Ohio. Sheet deflector. 1,784,855; Dec. 16.
Turner, Charles L., assignor of one-half to F. W. Harris, Los Angeles, Calif. Vessel-capping machine. 1,785,235; Dec. 16.
Turner, Dennis H., Seminole, Okla. Burner. 1,785,605; Dec. 16.
Udy, Marvin J., Niagara Falls, N. Y., assignor to Electro Metallurgical Co. Producing chromic acid. 1,784,950; Dec. 16.
Ulman, Herbert G., Tuckahoe, N. Y. Heat-interchange device. 1,785,159; Dec. 16.
Ulmann, Friedrich, Zwickau, Germany. Preliminary treatment of metal plates for the production of printing plates. 1,785,606; Dec. 16.
Union Iron Works. (See Bronson, A. E., and Braden, assignors.)
Union Special Machine Company. (See Hanson, Nathan E., assignor.)
Union Special Machine Company. (See Riviere, Albert S., assignor.)
Union Steel Product Company. (See Hatch, Charles T., assignor.)
Union Switch & Signal Company, The. (See Blosser, H. G., and McCann, assignors.)
Union Switch & Signal Company, The. (See Glison, Robert M., assignor.)
Union Switch & Signal Company, The. (See Thompson, Howard A., assignor.)
Union Tool Company. (See Zerbe, L. E., and Archer, assignors.)
United Reproducers Corporation. (See Hawley, Jesse B., assignors.)
United Shoe Machinery Corporation. (See Barclay, William R., assignor.)
United Shoe Machinery Corporation. (See Matthews, Algernon W., assignor.)
United States Gypsum Company. (See Marks, Herbert E., assignor.)
United States Gypsum Company, The. (See Reel, Herbert W., assignor.)
Upson, Charles H. (See McEvoy, J. J., and Upson.)
Urschel, Bertis H., assignor to Urschel Engineering Company, Bowling Green, Ohio. Axle for self-propelled vehicles. 1,784,856; Dec. 16.
Urschel Engineering Company. (See Urschel, Bertis H., assignor.)
V. D. Limited. (See Vigneron, Jean-Baptiste J. A., assignor.)
Valjean, Ben, assignor to Motor Wheel Corporation, Lansing, Mich. Fuel-feed control. 1,785,160; Dec. 16.
Valley Camp Coal Company, The. (See Paisley, James A., assignor.)
Van-Alstyne, Durlin N., Syracuse, assignor of fifty per cent to J. N. Van Alstyne, Fulton, N. Y. Bottle closure. 1,785,716; Dec. 16.
Van Alstyne, James N. (See Van Alstyne, Durlin N., assignor.)
Vance, Walter N., Chicago Heights, assignor, by mesne assignments, to Lyon Metal Products, Incorporated, Aurora, Ill. Hinge. 1,785,506; Dec. 16.
Varcoe, Earl V., Philadelphia, Pa. Boiler. 1,785,058; Dec. 16.
Venard, William G., Long Beach, Calif. Adjustable skip hoist. 1,785,371; Dec. 16.
Venard, William G., Los Angeles, Calif. Scaffold. 1,785,399; Dec. 16.
Verlinden, Edmond, Milwaukee, Wis. Organ-stop action. 1,784,951; Dec. 16.
Vickers Limited. (See Nasmith, John I., assignor.)
Victor Chemical Works. (See Adler, H., and McDonald, assignors.)
Vigneron, Jean-Baptiste J. A., La Rochelle, France, assignor to V. D. Limited, London, England. Trawling gear. 1,785,236; Dec. 16.
Volk, Joseph A., Norwalk, Conn. Vaporproof lighting unit. 1,785,538; Dec. 16.
Volkes, Morris. (See Gursky, H., and Volkes.)
Von Ardenne, Manfred, and H. Heinert, Berlin, Germany, assignors to Radio Corporation of America. Electron-tube circuits. 1,784,857; Dec. 16.
Von Diersburg, Karl F. R., Graefelfing, near Munich, Germany. Moving lamp for signs and advertisements. 1,785,465; Dec. 16.
Von Nessen, Walter, New York, N. Y., assignor to Efcolite Corporation, Trenton, N. J. Lighting fixture or article of similar nature. Des. 82,861; Dec. 16.
Von Nessen, Walter, New York, N. Y., assignor to Efcolite Corporation, Trenton, N. J. Lighting fixture or article of similar nature. Des. 82,862; Dec. 16.
Wadsworth, George B., Company, The. (See Wadsworth, George E., assignor.)
Wadsworth, George E., Erlanger, Ky., assignor, by mesne assignments, to The George B. Wadsworth Company, Cincinnati, Ohio. Safety electrical device. 1,785,290; Dec. 16.
Walker, Charles I., Los Angeles, Calif., assignor to Chicago Railway Equipment Company, Chicago, Ill. Hangerless brake beam. 1,784,917; Dec. 16.
Walker Manufacturing Company. (See Johnson, Ben F., assignor.)
Walker, Prescott H., and S. S. Kenyon, assignors to The Carborundum Company, Niagara Falls, N. Y. Abrasive or refractory articles and making the same. 1,785,102; Dec. 16.
Walter, Albert U., Baltimore, Md. Antisiphoning system. 1,784,918; Dec. 16.
Walters, D. E. (See McGee, Rupert E., assignor.)
Wampler, Isaac S. (See Chandler, E. A., and McCann, assignors.)
Wangelin, Walter H., St. Louis, Mo. Sand screen. 1,785,161; Dec. 16.
Wargin, Lee M., St. Louis, Mo. Finger ring. 1,785,217; Dec. 16.
Warren, Mahala, Wetumka, Okla. Valentine envelope. Des. 82,863; Dec. 16.
Wasmuth, Augustus F., Huntington, assignor to Wasmuth-Endicott Company, Andrews, Ind. Door with hinge. 1,785,661; Dec. 16.
Wasmuth-Endicott Company. (See Wasmuth, Augustus F., assignor.)
Waterloo, Paul G., Madera, Pa. Temperature-indicating device. 1,785,662; Dec. 16.
Watling, Thomas W. B., Chicago, Ill. Casing for weighing scale. Des. 82,864; Dec. 16.
Watson, Frederick W., Cleveland Heights, Ohio. Batten clamp. 1,785,400; Dec. 16.
Wayne Novelty and Publishing Company. (See Bitner, John S., assignor.)
Weaver, Eugene L., assignor to Harry B. Carpenter, Los Angeles, Calif. Selling booth. Des. 82,865; Dec. 16.
Webber, Charles S., and C. J. Staud, assignors to Eastman Kodak Company, Rochester, N. Y. Manufacture of mixed esters of cellulose. 1,785,466; Dec. 16.
Weber Costello Company. (See Johnson, John F., assignor.)
Weiske, Paul, and K. Rupprecht, Berlin, Germany, assignors to General Electric Company. Motor-control system. 1,785,567; Dec. 16.
Weisman, Julius, Providence, R. I., assignor to Plainville Stock Company, Plainville, Mass. Clasp or fastening device for bracelets. 1,785,059; Dec. 16.
Weiss, Howard F., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis. Facing membrane for sound-absorbing materials. 1,785,507; Dec. 16.
Welch, Harry R. (See Humberstone, E. H., and Welch.)
Wellman Engineering Company. (See Rogers, John F., assignor.)
Wells, Russell D., Pottstown, Pa. Gas range. 1,785,568; Dec. 16.
Wels, Franz, assignor of one-half to C. Kronig, Schloss Harta, near Hohenelbe, Czechoslovakia. Pleasure sled or sleigh. 1,785,467; Dec. 16.
Wente, Edward C., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sound-recording system. 1,784,858; Dec. 16.
Western Electric Company. (See Betts, Philander H., assignor.)
Western Electric Company. (See Farrington, John F., assignor.)
Western Electric Company. (See Gray, Frank, assignor.)
Western Electric Company. (See Hagemann, Edwin C., assignor.)
Western Electric Company. (See Harrison, Henry C., assignor.)
Western Electric Company. (See Martell, C., and Hagen, assignors.)
Western Electric Company. (See Trebes, Bruno M. A., assignor.)
Western Electric Company. (See Weston, William K., assignor.)
Western Union Telegraph Company, The. (See McGuinness, William V., assignor.)
Western Wheeled Scraper Company. (See Morton, Rolla A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hill, Charles F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Schenkel, Moritz, assignor.)
Westinghouse Electric & Manufacturing Company. (See Schmidt, Henry F., assignor.)
Weston, William K., Sanderstead, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Twisting machine. 1,784,859; Dec. 16.
Weyerhaeuser Timber Company. (See Payzant, Henry H., assignor.)
Whipple, James B., Huntington Park, assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif. Clingstone-fruit pitter. 1,785,020; Dec. 16.
Whipple, James B., Huntington Park, assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif. Fruit pitter. 1,785,021; Dec. 16.

Whirldry Corporation. (See Dunham, George W., assignor.)
White, Ezekiel F., Hartford, assignor to G. V. Lassen, West Hartford, Conn. Liquid-fuel burner. 1,785,707; Dec. 16.
White, Horace E., and G. M. F. Depfer, Baltimore, Md., assignors to Draper Corporation, Hopedale, Mass. Automatically-threading loom shuttle. 1,785,226; Dec. 16.
White, John H., Cranford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Metallurgical process. 1,785,060; Dec. 16.
White, Jonathan N., New York, N. Y. Alloy. 1,785,372; Dec. 16.
White, Virginia A., Dallas, Tex. Abdominal support or corset. 1,785,162; Dec. 16.
White, Wilbur, Chemical Co., The. (See Bridgeman, Walter A., assignor.)
White, William E., assignor to Kalman Steel Company, Chicago, Ill. Ceiling support. 1,785,061; Dec. 16.
Whitehead and Hoag Company, The. (See Day, James C., assignor.)
Whitehead, Richard H., assignor to The New Haven Clock Company, New Haven, Conn. Clock case. Des. 82,866; Dec. 16.
Whittle, Horace, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transformer system. 1,785,062; Dec. 16.
Wicaco Machine Corporation. (See Lawser, Charles W., assignor.)
Wiebusch, Charles F., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sound recorder. 1,784,860; Dec. 16.
Wiedeke, Gustav, assignor to G. Wiedeke Company, Dayton, Ohio. Operating device for tube expanders and the like. 1,785,103; Dec. 16.
Wiedeke, Gustav, Company. (See Wiedeke, Gustav, assignor.)
Wight, Sedgwick N., assignor to General Railway Signal Company, Rochester, N. Y. Train-dispatching system for railroads. 1,785,708; Dec. 16.
Wilde, Francis E. J., Meadowmere Park, N. Y. Electric sign. 1,784,861; Dec. 16.
Wildhaber, Ernest, Brooklyn, N. Y. Transmission. 1,784,919; Dec. 16.
Wildhaber, Ernest, Brooklyn, N. Y. Transmission. 1,784,920; Dec. 16.
Wilkins, Roy, San Francisco, Calif. Well-drilling equipment. 1,785,163; Dec. 16.
Willette, Charles W., Portland, Oreg. Hand-operated lumber trimmer. 1,785,373; Dec. 16.
Williams, James F., Lyndhurst, N. J., assignor to General Motors Corporation, Detroit, Mich. Antifriction bearing. 1,785,063; Dec. 16.
Willis, LeRoy W., Brooklyn, assignor to Intertype Corporation, New York, N. Y. Metal potfor line-casting machines. 1,785,607; Dec. 16.
Wilmoh Manufacturing Corporation. (See Mohler, John J., assignor.)
Wilner, Elias R., assignor to Eddystone Cement Corporation, New York, N. Y. Producing cement. 1,785,508; Dec. 16.
Winchester Repeating Arms Company. (See Pugsley, Edwin, assignor.)
Wind-blast Chaffer Company, The. (See Hoes, J. W., and Cronk, assignors.)
Winship, Bolt & Co. (See Hatfield, Percy W., assignor.)
Winter, Fred H., Schenectady, N. Y., assignor to General Electric Company. Electrical regulator. 1,785,569; Dec. 16.
Winters, Ira C., Norwich, N. Y. Changeable eyes for dolls. 1,784,921; Dec. 16.
Winthrop Chemical Company. (See Streitwolf, K., and Fehrle, assignors.)
Wise Shoes, Inc. (See Elias, Albert I., assignor.)
Witherspoon, Lillian S., San Francisco, Calif. Holder for sifter-top cans or packages. 1,784,979; Dec. 16.
Wittmann, Clarence M., Pittsburgh, Pa. Combination window and screen. 1,785,663; Dec. 16.
Wittmayer, Alexander, Brooklyn, N. Y. Adjustable connection for bracelets and the like. 1,785,104; Dec. 16.
Wolarsky, Isidore, Mount Vernon, N. Y. Lighting-fixture support. 1,784,885; Dec. 16.
Wolcott, Jone E. (See Johnson, Victor E., assignor.)
Wolfe, George F. (See Edwards, V. B., and Wolfe.)
Wolfson, Harold M., New York, N. Y., assignor to Milton Bradley Company, Springfield, Mass. Educational appliance. 1,784,952; Dec. 16.
Wolliny, K., assignor to the firm Nollesche Werke Komm.-Ges., Weissenfels O. S., Germany. Tack-feeding device. 1,785,570; Dec. 16.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Multiple-stereotype-plate-casting machine. 1,785,164; Dec. 16.
Wood Newspaper Machinery Corporation. (See Tornberg, Isidor, assignor.)
Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
Woods, Charles C., Denver, Colo. Process and apparatus for regulation of tone-producing quality of hammers in stringed musical instruments. 1,785,165; Dec. 16.
Worrall, Arthur G. (See Hackett, R. W., and Worrall.)
Worthington Pump and Machinery Corporation. (See Lawaczeck, Franz, assignor.)
Wozniak, Joseph, and E. G. Bremforder, Detroit, Mich. Display device. 1,785,105; Dec. 16.
Wright, Bert R., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Liquid-flow regulator for centrifuges. 1,784,953; Dec. 16.
Wright, J. T., Company, The. (See Wright, Joseph T., assignor.)
Wright, Joseph T., assignor to The J. T. Wright Company, Cincinnati, Ohio. Lubricating perforator presses. Re17,905; Dec. 16.
Yakunin, Andrew, Calgary, Alberta, Canada. Hermetically-closing-up device for cars. 1,785,291; Dec. 16.
Yale & Towne Manufacturing Company, The. (See Lawrence, Alfred, assignor.)
Yale & Towne Manufacturing Company, The. (See Stuebing, William, jr., assignor.)
Yancey, Archelous B., Pasadena, Calif. Latch. 1,785,468; Dec. 16.
Young, Charles D., Wayne, Pa. Loading and unloading apparatus. 1,785,167; Dec. 16.
Young, Charles D., Wayne, Pa. Loading and unloading apparatus. 1,785,168; Dec. 16.
Young, Charles D., Wayne, Pa. Ramp-rail construction. 1,785,169; Dec. 16.
Young, Charles O., Jackson Heights, N. Y., assignor to Carbide & Carbon Chemicals Corporation. Manufacture of esters from aldehydes. 1,785,166; Dec. 16.
Young, Floyd S., assignor to May Seed & Nursery Co., Shenandoah, Iowa. Tire or similar article. Des. 82,867; Dec. 16.
Young, L. A., Spring & Wire Corporation. (See O'Brien, Falconer, assignor.)
Young, L. A., Spring & Wire Corporation. (See Oldham, John M., assignor.)
Youngblood, David F., San Antonio, Tex. Jail. 1,785,469; Dec. 16.
Youngblood, David F., San Antonio, Tex. Master operating mechanism for cell doors and locks. 1,785,470; Dec. 16.
Youngblood, David F., San Antonio, Tex. Master control system for cell doors and locks. 1,785,471; Dec. 16.
Zaidan Hojin Rikagaku Kenkyujo. (See Suzuki, T., Tanaka, and Kurita, assignors.)
Zeindler, Werner, assignor to The Service Caster & Truck Co., Albion, Mich. Truck. 1,785,064; Dec. 16.
Zell, David H., Brooklyn, N. Y. Vanity case or analogous article. Des. 82,868; Dec. 16.
Zell, David H., Brooklyn, N. Y. Vanity case or analogous article. 82,869; Dec. 16.
Zenthoefer, Joseph V., Hazleton, Pa., assignor, by mesne assignments, to Oliver United Filters Inc., San Francisco, Calif. 1,785,237; Dec. 16.
Zerbe, Lewis E., Moneta, Calif., and M. T. Archer, Pittsburgh, Pa., assignors to Union Tool Company, Torrance, Calif. Apparatus for drilling wells. 1,785,238; Dec. 16.
Zimmerman, Thomas. (See Strickland, S. A., and Zimmerman.)
Zuckerberg, Emanuel, Providence, R. I. Glass ornamentation. 1,785,401; Dec. 16.
Zweibel, Charles A., Louisville, Ky., assignor to W. H. Miner, Inc., Chicago, Ill. Hand brake. 1,785,170; Dec. 16.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 16TH DAY OF DECEMBER, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abrasive or refractory articles and making the same. P. H. Walker and S. S. Kenyon. 1,785,102; Dec. 16.
Acid, Producing chromic. M. J. Udy. 1,784,950; Dec. 16.
Adding machine. G. J. Barrett. 1,784,862; Dec. 16.
Addressing machines, Recording device for. P. A. Gollnick and F. W. Broderick. 1,785,517; Dec. 16.
Adjustable jack. C. G. Boudette. 1,785,069; Dec. 16.
Adjustable jack. M. P. Holmes. 1,784,991; Dec. 16.
Advertising device. J. W. Allen. 1,785,474; Dec. 16.
Advertising device. D. Solodar. 1,785,100; Dec. 16.
Aerial navigation instrument. G. Estoppey. 1,784,929; Dec. 16.
Aeroplane. J. A. Cashel. 1,785,295; Dec. 16.
Aeroplane. A. Lanzetta. 1,785,128; Dec. 16.
Aeroplane. F. R. Longstreet. 1,784,939; Dec. 16.
Aircraft. S. F. Kumor. 1,785,633; Dec. 16.
Aircraft propelling means, Pneumatic. O. K. Quast. 1,785,458; Dec. 16.
Air heater. J. E. Black. 1,785,334; Dec. 16.
Air heater. S. D. Rich. 1,785,649; Dec. 16.
Air into oxygen and nitrogen, Complete separation of liquid. A. Messer. 1,785,491; Dec. 16.
Airplane. T. F. Cooney. 1,785,477; Dec. 16.
Airplane. F. A. Doyle and G. A. Lyons. 1,785,114; Dec. 16.
Airplane propeller. F. A. Dumont. 1,784,894; Dec. 16.
Airplane wings, Rolling apron for. F. De La Tour Castelcicala. 1,785,300; Dec. 16.
Alkyl-phenyl ether. I. Ostromisiensky. 1,785,327; Dec. 16.
Alloy. J. N. White. 1,785,372; Dec. 16.
Alumina, Preparing pure. T. Suzuki, H. Tanaka, and T. Kurita. 1,785,464; Dec. 16.
Anchor, Concrete. O. Rice. 1,785,648; Dec. 16.
Anchorage device, Cushioning. H. E. Fritz. 1,784,897; Dec. 16.
Animal trap. H. W. Abel. 1,785,664; Dec. 16.
Annunciator, Electric. J. J. Enneking. 1,784,961; Dec. 16.
Anthracene, Purification of crude. A. O. Jaeger. Re17,902; Dec. 16.
Antioxidant or age resister. A. M. Clifford. 1,785,692; Dec. 16.
Antisiphoning system. A. U. Walter. 1,784,918; Dec. 16.
Apparatus for releasing glider planes. O. Alvistur. 1,784,954; Dec. 16.
Apparatus for use in loading mine cars. J. A. Paisley. 1,785,593; Dec. 16.
Ash-dust eliminator. F. R. Dyke. 1,785,481; Dec. 16.
Auto thriller and amusement apparatus. H. Rocks, jr. 1,785,363; Dec. 16.
Automobile body, Convertible. T. P. Fesko. 1,784,962; Dec. 16.
Awning fixture. F. E. Markert. 1,785,520; Dec. 16.
Axle for self-propelled vehicles. B. H. Urschel. 1,784,856; Dec. 16.
Back digger. A. Orloff. 1,785,942; Dec. 16.
Back-pressure joint. J. D. Lemex. 1,785,271; Dec. 16.
Bag: *See*—
Hand bag.
Bag. M. R. Kendall. 1,785,126; Dec. 16.
Bag-frame clasp. W. C. Hiering. 1,785,380; Dec. 16.
Balancing spring. J. W. Fry. 1,785,118; Dec. 16.
Base for nickel clocks, Metal. J. O. Simpson. 1,785,231; Dec. 16.
Base member for use with cooking vessels. E. V. Coulston. 1,785,182; Dec. 16.
Bathtub. C. J. Steele. Des. 82,856–7; Dec. 16.
Bathtub and shower, Combination. H. S. Leber. 1,785,636; Dec. 16.
Batten clamp. F. W. Watson. 1,785,400; Dec. 16.
Bearing. J. L. Osborne. 1,785,702; Dec. 16.
Bearing, Antifriction. J. F. Williams. 1,785,063; Dec. 16.
Bearing, Connecting-rod. S. G. Reinhard. 1,785,459; Dec. 16.
Bearing for conveyer rollers. C. J. Reichle. 1,784,848; Dec. 16.
Bearing for pump-operating members. J. P. Ratigan. Re17,904; Dec. 16.
Bearing, Roller. F. C. Cowburn. 1,785,617; Dec. 16.
Bearing, Roller. S. A. Strickland and T. Zimmerman. 1,784,914; Dec. 16.
Bearing, Vehicle- spring. R. R. Searles and E. H. Cooper. 1,785,655; Dec. 16.
Bed stay. J. H. De Boer. 1,785,075; Dec. 16.
Bench: *See*—
Manual-training bench.
Beverage dispenser. H. E. Crosby. Des. 82,798; Dec. 16.
Binder, Loose-leaf. J. L. McMillan. 1,785,684; Dec. 16.
Bit: *See*—
Drilling bit.
Bituminous materials, Apparatus for molding. A. J. Pfohl. 1,785,457; Dec. 16.
Blackboard installation, Ventilated. J. F. Johnson. 1,784,900; Dec. 16.
Block: *See*—
Building block. Pulley block.
Blotter and box, Combined desk. E. A. Schuelke. 1,785,229; Dec. 16.
Board: *See*—
Ironing board.
Boiler. E. V. Varcoe. 1,785,058; Dec. 16.
Boiler cleaner. T. D. Evans. 1,785,024; Dec. 16.
Boiler-control and water-heating device, Automatic. M. Seidel. 1,785,098; Dec. 16.
Boilers, Duplex feeder for low-pressure heating. L. P. Flood. 1,785,547; Dec. 16.
Boilers, Superheater for. R. H. M. Erdmann. 1,785,441; Dec. 16.
Bolt and bushing therefor. J. G. Campau. 1,785,709; Dec. 16.
Booth, Selling. E. L. Weaver. Des. 82,865; Dec. 16.
Boring rotary, Earth-. E. E. Greve. 1,785,254; Dec. 16.
Bottle heater, Nursing-. W. F. Edlin. 1,785,438; Dec. 16.
Bottle or similar article. W. W. Hobé. Des. 82,824; Dec. 16.
Bowl construction, Scraper. W. J. Adams. 1,785,106; Dec. 16.
Box: *See*—
Journal box. Mail box.
Box partitioning. L. E. La Bombard and M. H. Sidebotham. 1,785,416; Dec. 16.
Bracket: *See*—
Broom-handle bracket.
Bracket or article of similar nature, Lighting-fixture. J. J. Blumenthal. 82,790; Dec. 16.
Braiding machine. G. D. Mallory. 1,785,683; Dec. 16.
Brake: *See*—
Hand brake.
Brake-band-lining device. V. Freshkoff. 1,785,076; Dec. 16.
Brake bands and the like, Making. T. M. Russell. 1,785,391; Dec. 16.
Brake beam, Hangerless. C. I. Walker. 1,784,917; Dec. 16.
Brake-beam structure. H. W. Ekholm. 1,784,896; Dec. 16.
Brake control for power-propelled vehicles, Automatic. E. G. Staude. 1,785,052; Dec. 16.
Brake drum. J. V. Pugh. 1,785,424; Dec. 16.
Brake for automatic reels. A. D. Maury. 1,785,279; Dec. 16.
Brake lining. F. C. Morris. 1,784,994; Dec. 16.
Brake mechanism. S. Bentty. 1,785,432; Dec. 16.
Brake mechanism. A. E. Minium. 1,785,203; Dec. 16.
Brake mechanism. H. L. F. Trevert. 1,785,057; Dec. 16.
Brake structure for caster wheels. H. P. Nielsen. 1,785,421; Dec. 16.
Brake-testing machine. E. P. Bewley. 1,785,243; Dec. 16.
Brakes, Equalizing system for four-wheel. B. Carlin. 1,785,179; Dec. 16.
Breast lifter for gins. J. Behle. 1,785,109; Dec. 16.
Bridge-building apparatus. V. B. Edwards and G. F. Wolfe. 1,785,023; Dec. 16.
Broom handle bracket, Push-. F. Schweigert. 1,785,564; Dec. 16.
Broom, Hearth. G. A. Hancock. Des. 82,823; Dec. 16.
Brush, Current-collecting. C. Hansen and H. S. Ellson. 1,785,483; Dec. 16.
Buckle, Apparel. L. Frank. Des. 82,810–20; Dec. 16.
Buckle, Apparel. A. H. Kerngood. Des. 82,829–36; Dec. 16.
Buckle, Shoe. S. M. Riker. Des. 82,848–9; Dec. 16.
Building. A. F. Bemis. 1,785,067; Dec. 16.
Building block. F. Sayers. 1,785,499; Dec. 16.
Bunion corrector. J. C. Day. 1,785,185; Dec. 16.
Burner: *See*—
Coal burner. Fuel burner.
Burner. D. H. Turner. 1,785,605; Dec. 16.
Cabinet, Tool. F. H. Bachelder. 1,785,666; Dec. 16.
Cable-pulling device, Underground-. P. Eufinger. 1,784,829; Dec. 16.
Cableway, Portable. J. H. and M. H. Dickinson. 1,785,340; Dec. 16.
Cables, Grip for electric. P. F. Hellermann. 1,785,628; Dec. 16.

Cadmium from cadmium-containing material, Producing metallic. H. H. Monroe. 1,785,139; Dec. 16.
Cake machines, Batter-feeding device for pastry-. C. Schroeder and H. Tatosian. 1,785,394; Dec. 16.
Calcium phosphate, Granular. H. Adler and G. A. McDonald. 1,785,473; Dec. 16.
Calendar. E. McNamara. 1,785,640; Dec. 16.
Calendar, Perpetual. H. L. Fischer. Des. 82,806; Dec. 16.
Calender roll. A. Lade. 1,785,265; Dec. 16.
Cam ring, Segmental. H. Swingleburst. 1,785,603; Dec. 16.
Can: *See*—
Oil can. Tobacco can.
Can opener. J. Kovats. 1,785,384; Dec. 16.
Can-washing machine. H. Krause. 1,785,352; Dec. 16.
Car dump-registering means, Mine-. J. J. and R. A. Body. 1,785,433; Dec. 16.
Car, Hot-metal. C. P. Astrom. 1,785,292; Dec. 16.
Cars, Hermetically-closing-up device for. A. Yakunin. 1,785,291; Dec. 16.
Carbon bisulphide from gas, Removal of. W. J. Klaiber. 1,785,415; Dec. 16.
Carbonaceous materials, Apparatus for carbonizing and distilling. W. W. O'Dell. 1,785,645; Dec. 16.
Carburetor. W. C. Carter. 1,784,864; Dec. 16.
Carburetor. A. W. Fulwiler. 1,785,026; Dec. 16.
Carburetor. F. Goudard. 1,785,681; Dec. 16.
Carburetor dust cleaner. S. P. Klima. 1,785,632; Dec. 16.
Carburetor for internal-combustion engines. E. Pedrini. 1,785,045; Dec. 16.
Card, Telephone-installer's omnibus number sign. G. D. Cox. 1,784,814; Dec. 16.
Carriage, Baby. A. Pascoo. 1,785,646; Dec. 16.
Carriage or the like, Baby. A. Schnabel. 1,784,976; Dec. 16.
Carrier: *See*—
Leader carrier. Merchandise carrier.
Carrier for automobiles, Luggage. M. Moore. 1,784,971; Dec. 16.
Case: *See*—
Vanity case.
Cash register. J. P. Frank. 1,785,378; Dec. 16.
Casing, Condenser. S. I. Cole. Des. 82,797; Dec. 16.
Casing, Flash-light. J. L. Shannon. Des. 82,853; Dec. 16.
Casing for flexible shafts. J. L. Hasemann. 1,785,345; Dec. 16.
Casing for weighing scale. T. W. B. Watling. Des. 82,864; Dec. 16.
Ceiling construction. A. Schmid. 1,785,050; Dec. 16.
Cellulose, Nitrating. L. A. Pinck. 1,784,945; Dec. 16.
Cement, Manufacturing Portland. G. S. La Forge. 1,784,840; Dec. 16.
Cement, Producing. E. R. Wilner. 1,785,508; Dec. 16.
Ceramics, Method and product for preventing efflorescence in. A. Hough and J. G. Harrison. 1,785,309; Dec. 16.
Chaffer for thrashing machines and grain harvesters. J. W. Hoes and H. Cronk. 1,785,195; Dec. 16.
Chain, Antiskid. E. Ronferek. 1,785,117; Dec. 16.
Chain tightener, Nonskid-. J. F. Persinger. 1,785,323; Dec. 16.
Chair. L. H. Clark and W. S. Sengpiel. 1,785,337; Dec. 16.
Chair. R. L. Klotz. 1,785,317; Dec. 16.
Chamois, buckskins, or other leather, Tanning. A. Ernst. 1,784,828; Dec. 16.
Charging device. C. C. Hansen. 1,785,344; Dec. 16.
Chemical reactions, Apparatus for. T. Griswold, jr. 1,785,080; Dec. 16.
Chipping machines, Knife-holding means for. C. B. Sprague. 1,785,151; Dec. 16.
Chuck, Air. J. C. Crowley. 1,784,822; Dec. 16.
Chuck, Differential. J. C. Regan. 1,784,908; Dec. 16.
Chuck for spooling or reeling machines. H. S. Busey. 1,785,248; Dec. 16.
Circuit controller. H. B. Taylor. 1,785,705; Dec. 16.
Circuit, Magnetic modulator. E. Peterson. 1,784,879; Dec. 16.
Circuit switch. L. A. Gary. 1,784,898; Dec. 16.
Circuits, Electron-tube. M. von Ardenne and H. Heinert. 1,784,857; Dec. 16.
Clamp: *See*—
Batten clamp. Tooth clamp.
Hose clamp.
Clasp: *See*—
Bag-frame clasp.
Clasp or fastening device for bracelets. J. Weisman. 1,785,059; Dec. 16.
Classifying apparatus. A. France. 1,785,679; Dec. 16.
Clays and the like, Device for testing. J. F. Mackin. 1,785,521; Dec. 16.
Cleaner: *See*—
Boiler cleaner. Screw-thread cleaner.
Carburetor dust cleaner. Vacuum cleaner.
Cleaners for shoe linings. H. S. Buttenheim. 1,785,512; Dec. 16.
Clip: *See*—
Paper clip.
Clock case. R. H. Whitehead. Des. 82,866; Dec. 16.
Clock, Electrically-wound. C. E. de Long. 1,785,301; Dec. 16.
Clock, Graphophone. J. H. Holloway. 1,785,121; Dec. 16.
Clocks, Automatic strike-regulating means for. F. Heckert. 1,785,551; Dec. 16.
Closet bowl, Water-. H. F. Kelso. 1,785,198; Dec. 16.
Closure and support, Bag. F. L. Savageau. 1,785,498; Dec. 16.
Closure, Bottle. D. N. Van Alstyne. 1,785,716; Dec. 16.
Closure-removing device. G. A. Carlson. 1,785,436; Dec. 16.
Clutch, Double-end-drive reverse. R. Gerber. 1,785,548; Dec. 16.
Coal and the like, Apparatus for gasifying. C. Davies, jr. 1,784,985; Dec. 16.
Coal breaker. G. W. Borton. 1,784,983; Dec. 16.
Coal burner, Automatic. A. Ousdahl. 1,785,456; Dec. 16.
Coat. D. Long. Des. 82,840; Dec. 16.
Coat, Apparel. A. Hessler. 1,785,029; Dec. 16.
Coating composition and preparing the same. C. H. Siever. 1,785,307; Dec. 16.
Coiling device. G. B. Higgins. 1,785,518; Dec. 16.
Color-light signal. S. M. Day. 1,785,694; Dec. 16.
Combustion chamber. C. E. Hawks. 1,785,583; Dec. 16.
Combustion device. E. W. Pelster. 1,785,046; Dec. 16.
Communication, System and method of. J. H. Hammond, jr. 1,785,307; Dec. 16.
Compass or similar article. J. H. Fischer. Des. 82,807; Dec. 16.
Compensating switch. H. Rowntree. 1,784,883; Dec. 16.
Compressor mechanism. W. Fourness. 1,785,407; Dec. 16.
Condensers, Process and apparatus for making electric. W. Dubilier. 1,785,479; Dec. 16.
Conduit. E. Babb. 1,785,403; Dec. 16.
Conduit device, Fluid-. E. C. Adams. 1,784,980; Dec. 16.
Conduit fitting. G. R. Metcalf, jr. 1,785,136; Dec. 16.
Connecting device. S. S. Matthes. 1,785,522; Dec. 16.
Connection for bracelets and the like, Adjustable. A. Wittmayer. 1,785,104; Dec. 16.
Connection, Spring-end. J. W. Smith. 1,785,686; Dec. 16.
Container, Mortuary-record. H. P. Hansen. 1,785,582; Dec. 16.
Containers, Combined opener and closure for paper milk. J. J. Schmerler. 1,785,599; Dec. 16.
Control, Fuel-feed. B. Valjean. 1,785,160; Dec. 16.
Control surface for aircraft, submersibles, and the like. L. G. Frise. 1,785,620; Dec. 16.
Control system. D. K. Blake. 1,785,611; Dec. 16.
Control system. D. K. Blake. 1,785,722; Dec. 16.
Control system. W. J. McLachlan. 1,785,714; Dec. 16.
Control system, Automatic. D. K. Blake. 1,785,719; Dec. 16.
Conveyer, Articulated. E. M. Arentzen. 1,785,402; Dec. 16.
Conveyer for stokers. F. C. Pickard. 1,785,282; Dec. 16.
Conveyer, Rock. R. R. Dailey. 1,785,249; Dec. 16.
Conveyers relative to the chains thereof, Adjusting the rails of. E. E. Kennedy. 1,785,315; Dec. 16.
Copper carbon contact. S. M. Day. 1,785,618; Dec. 16.
Copyholder. J. B. Haywood. 1,784,873; Dec. 16.
Cords, Apparatus for and method of testing. T. B. Buffum. 1,785,690; Dec. 16.
Core barrels, Screen plug for. R. C. Baker. 1,784,886; Dec. 16.
Core by-pass drill. O. F. Harding. 1,785,120; Dec. 16.
Core, Collapsible. B. De Mattia. 1,784,960; Dec. 16.
Cores, Apparatus for covering. B. M. A. Trebes. 1,785,398; Dec. 16.
Cores, Method of and apparatus for coating. C. C. Martell and B. A. Hagen. 1,785,037; Dec. 16.
Corona elimination in dynamo-electric machines. C. F. Hill. 1,784,990; Dec. 16.
Corona in alternators, Elimination of. C. F. Hill. 1,784,989; Dec. 16.
Cot, Folding. H. Gursky and M. Volkes. 1,785,258; Dec. 16.
Cotter pin. E. G. Goodwin. 1,785,622; Dec. 16.
Counterbalance. C. H. Bergquist. 1,785,668–9; Dec. 16.
Coupling: *See*—
Hose coupling.
Coupling mechanism. E. A. Larsson. 1,785,269; Dec. 16.
Coupling members, Making. E. E. Johnson. 1,784,966; Dec. 16.
Cover for registers and radiators. W. K. Gammeter. 1,785,253; Dec. 16.
Cover for umbrellas, Detachable. E. M. Riley. 1,785,561; Dec. 16.
Covering, Floor. R. D. Bonney and W. Y. Irwin, jr. 1,784,810; Dec. 16.
Crab trap. J. Holoubek. 1,785,348; Dec. 16.
Crane. A. B. Jacoby. 1,785,090; Dec. 16.
Crystallization. J. R. and T. Ray. 1,785,530; Dec. 16.
Cultivating device. B. M. Rolph. 1,784,974; Dec. 16.
Cultivators, Hilling attachment for. C. M. De Yone. 1,785,676; Dec. 16.
Cutter: *See*—
Weed cutter.
Cutting machine and the like, Coal-. W. C. Black. 1,785,574; Dec. 16.
Cylinder and control for lathe chucks and the like, Pneumatic engine. G. F. Hopkins. 1,785,349; Dec. 16.
Cylinder lock. A. Lawrence. 1,785,634; Dec. 16.
Damper and latching mechanism, Flue. G. E. Lauer. 1,785,385; Dec. 16.
Deflector, Paper. L. R. Tufts and A. Olson. 1,784,854; Dec. 16.

Deflector, Sheet. L. R. Tufts and A. Olson. 1,784,855; Dec. 16.
Desk or similar article, Toy. J. Kivy. Des. 82,837; Dec. 16.
Desks and the like, Top for. R. H. McLeod. 1,784,969; Dec. 16.
Die mechanism. C. Fassinger. 1,785,116; Dec. 16.
Digester for sulphite wood pulp. E. Morterud. 1,785,591; Dec. 16.
Digger: *See*—
Back digger.
Digging machine, Plant-. L. McClain. 1,785,588; Dec. 16.
Disk, Duplex scanning. C. F. Jenkins. 1,785,262; Dec. 16.
Disk harrow. W. L. Paul. 1,785,144; Dec. 16.
Disks, Making abrasive. A. J. Doermann. 1,785,437; Dec. 16.
Dispensing apparatus, Liquid-. L. D. Thompson. 1,784,852; Dec. 16.
Dispensing device. G. Raymond. 1,785,097; Dec. 16.
Dispensing device, Liquid-. F. C. Kimmel. 1,785,316; Dec. 16.
Display device. L. E. Kahn. 1,785,449; Dec. 16.
Display device. J. Wozniak and E. G. Bremforder. 1,785,105; Dec. 16.
Distilling apparatus and method. B. O. Benjamin. 1,784,956; Dec. 16.
Dividing strip. R. W. Hardie. 1,785,028; Dec. 16.
Diving apparatus. J. F. O'Rourke. 1,785,528; Dec. 16.
Doll. L. L. McCall. Des. 82,843; Dec. 16.
Doll, Advertising. J. L. Kallus. Des. 82,826; Dec. 16.
Door for hangars and other structures. A. Rush. 1,784,948; Dec. 16.
Doorframe. I. A. Baum. 1,785,174; Dec. 16.
Door hanger, Sliding-. B. Rowntree. 1,784,910; Dec. 16.
Door with hinge. A. F. Wasmuth. 1,785,661; Dec. 16.
Doors and locks, Master control system for cell. D. F. Youngblood. 1,785,471; Dec. 16.
Doors and locks, Master operating mechanism for cell. D. F. Youngblood. 1,785,470; Dec. 16.
Double-throw switch. H. J. Hammerly. 1,785,192; Dec. 16.
Dress. D. Long. Des. 82,841; Dec. 16.
Drier: *See*—
Hair drier.
Drill: *See*—
Core by-pass drill.
Drill bits, Automatic feed device for rotary. J. W. Hauk. 1,785,086; Dec. 16.
Drilling apparatus, Control mechanism for rotary. E. E. Greve. 1,785,257; Dec. 16.
Drilling bit, Core-. R. R. Candee and O. F. Harding. 1,785,405; Dec. 16.
Drilling machine, Rotary. E. E. Greve. 1,785,256; Dec. 16.
Drills, Venting means for pneumatic. R. A. Norling. 1,785,527; Dec. 16.
Drills, Welding. F. O. Hoagland. 1,784,932; Dec. 16.
Drive and oil pump, Combination. S. Dean. 1,785,112; Dec. 16.
Drive, Direct bucket. E. H. Lichtenberg. 1,785,031; Dec. 16.
Drive for wood-pulp grinders and the like. W. L. Merrill. 1,785,490; Dec. 16.
Driving mechanism. N. A. Strand. 1,785,055; Dec. 16.
Dust collection. C. F. Morse and E. L. Hogan. 1,785,453; Dec. 16.
Dust separating and collecting system, Elastic-fluid. G. M. Spencer. 1,785,331; Dec. 16.
Educational appliance. H. M. Wolfson. 1,784,952; Dec. 16.
Egg whip and the like. S. Schiff. 1,785,563; Dec. 16.
Eggs, Preserving. D. E. Seaward. 1,785,461; Dec. 16.
Electric accumulator. C. H. O. Lubeck. 1,785,202; Dec. 16.
Electric distribution system. D. K. Blake. 1,785,612; Dec. 16.
Electric distribution system. D. K. Blake. 1,785,720–1; Dec. 16.
Electric distribution system. W. J. McLachlan. 1,785,710–13; Dec. 16.
Electric machine, Dynamo-. J. F. H. Douglas. 1,785,515; Dec. 16.
Electric-machine element, Dynamo-. V. G. Apple. 1,784,815; Dec. 16.
Electric machines, Corona elemination in dynamo-. M. Schenkel. 1,784,997; Dec. 16.
Electric reflecting heater. W. W. Hicks. 1,785,413; Dec. 16.
Electric switch. T. A. Both. 1,785,068; Dec. 16.
Electric wave transmission system. P. H. Betts. 1,784,957; Dec. 16.
Electrical device, Safety. G. E. Wadsworth. 1,785,290; Dec. 16.
Electrical regulator. F. H. Winter. 1,785,569; Dec. 16.
Electrical switch. J. H. Cohen. 1,784,820; Dec. 16.
Electrode joint. C. Kuhlmann. 1,785,587; Dec. 16.
Electroplating, Controlling. R. J. Piersol. 1,785,389; Dec. 16.
Elevator: *See*—
Grain elevator.
Elevator. R. A. Morton. 1,785,141; Dec. 16.
Elevator-control device. J. R. Jackson, jr. 1,784,933; Dec. 16.
Engine: *See*—
Internal-combustion engine. Steam engine.
Engine. P. Bastien. 1,785,108; Dec. 16.
Engines, Humidifying device for internal-combustion. J. S. Funalman. 1,784,831; Dec. 16.
Engines, Power-shaft connection for internal-combustion. J. V. Maurais. 1,784,902; Dec. 16.
Engines, pumps, or the like, Guideway for reciprocating. A. Aldrich. 1,785,688; Dec. 16.
Envelope feeder. E. C. Hess. 1,784,836; Dec. 16.
Envelope, Valentine. M. Warren. Des. 82,863; Dec. 16.
Esters from aldehydes, Manufacture of. C. O. Young. 1,785,166; Dec. 16.
Esters of cellulose, Manufacture of mixed. C. S. Webber and C. J. Staud. 1,785,466; Dec. 16.
Excavating machine. R. Kurtz. 1,785,353; Dec. 16.
Exhaust mechanism, Underwater. F. T. Irgens. 1,785,089; Dec. 16.
Explosive assembly, Blasting-. C. D. Pratt. 1,785,529; Dec. 16.
Eyes for dolls, Changeable. I. C. Winters. 1,784,921; Dec. 16.
Fabric for breather bags. J. F. Cooper. 1,785,674; Dec. 16.
Fan attachment, Cooling-. E. Patrick. 1,784,907; Dec. 16.
Fastener, Separable. P. A. Aronson. 1,785,240; Dec. 16.
Fastener, Separable. S. H. Norton. 1,785,715; Dec. 16.
Fastener, Separable. G. Sundback. 1,785,234; Dec. 16.
Fastener slider and making same, Separable. R. H. Nicholson. 1,785,420; Dec. 16.
Fastening means, Barrel-head-. D. B. McDonald. 1,785,133; Dec. 16.
Fats, oils, or oleaginous substances from materials yielding them, Apparatus for recovery of. W. T. Powling. 1,785,361; Dec. 16.
Feed-water regulator. W. Smith. 1,785,149; Dec. 16.
Feeding device. E. A. Marsh. 1,785,132; Dec. 16.
Fertilizer composition and making the same, Ammonium-phosphate. G. H. Buchanan. 1,785,375; Dec. 16.
Fiber product and process of manufacture, Water-resistant. W. H. Mason. 1,784,993; Dec. 16.
Fiber sheets, Embossing. L. Oxhandler. 1,784,906; Dec. 16.
Fibrous material, Porous. D. M. Sutherland, jr. 1,785,101; Dec. 16.
Filling and binding composition. C. K. Stodder. 1,785,053; Dec. 16.
Film and making, Moving-picture. J. Burkhardt. 1,785,336; Dec. 16.
Film, Apparatus for processing. H. V. Jamieson. 1,785,631; Dec. 16.
Filter-cake discharger. J. V. Zenthoefer. 1,785,237; Dec. 16.
Filter press. L. Revel. 1,785,494; Dec. 16.
Finger ring. L. M. Wargin. 1,785,217; Dec. 16.
Fire-extinguishing foam, Apparatus for producing. F. L. Boyd. 1,785,723; Dec. 16.
Fish lure, Artificial. L. Johnson. 1,785,310; Dec. 16.
Fishing reel. H. A. Bokelund. Des. 82,791; Dec. 16.
Fishing rod. H. F. Gephart. 1,785,027; Dec. 16.
Flanging machine. D. E. Stevens. 1,785,537; Dec. 16.
Floor and ceiling construction, Combined. H. E. Marks. 1,784,876; Dec. 16.
Fluid-treating apparatus. E. G. Duden. 1,784,892; Dec. 16.
Fluids with solids, Method and apparatus for treating. I. H. Levin. 1,785,273; Dec. 16.
Flux for soft soldering. H. S. McQuaid. 1,785,135; Dec. 16.
Flux for use in soldering. H. P. Corson. 1,785,180; Dec. 16.
Flux, Soft soldering. H. P. Corson and E. S. Ridler. 1,785,181; Dec. 16.
Flux, Soldering. H. J. Barrett. 1,785,173; Dec. 16.
Flux, Soldering. H. B. Dykstra. 1,785,115; Dec. 16.
Flux, Zinc-chloride-base. G. Lutz. 1,785,131; Dec. 16.
Flux, Zinc-chloride-base. E. A. Taylor. 1,785,155; Dec. 16.
Folding table. J. J. Lafillée. 1,785,450; Dec. 16.
Frame construction, Window-. G. W. Lancaster. 1,784,938; Dec. 16.
Frame for alarm clocks, Ornamental. P. Siptrott. 1,785,233; Dec. 16.
Friction element and making same. I. J. Novak. 1,785,701; Dec. 16.
Fruit pitter. E. R. Anderson. 1,784,998; Dec. 16.
Fruit pitter. H. and D. Goranson. 1,785,012; Dec. 16.
Fruit pitter. H. W. Norgaard. 1,785,014; Dec. 16.
Fruit pitter. A. R. Thompson. 1,785,015–16; Dec. 16.
Fruit pitter. A. R. Thompson and E. R. Anderson. 1,785,019; Dec. 16.
Fruit pitter. J. B. Whipple. 1,785,021; Dec. 16.
Fruit pitter, Clingstone. J. B. Whipple. 1,785,020; Dec. 16.
Fruit pitting and coring apparatus. A. L. Duncan. 1,785,002; Dec. 16.
Fruit pitting and coring apparatus. A. L. Duncan. 1,785,004–5; Dec. 16.
Fruit pitting and coring machine. W. W. Havens. 1,785,013; Dec. 16.
Fruit pitting and coring mechanism. A. L. Duncan. 1,785,007; Dec. 16.

Fruit pitting and coring method. A. L. Duncan. 1,785,006; Dec. 16.
Fruit pitting and coring method and apparatus. A. L. Duncan. 1,785,003; Dec. 16.
Fruit-pitting apparatus. E. R. Anderson. 1,784,999; Dec. 16.
Fruit-pitting apparatus. A. R. Thompson. 1,785,018; Dec. 16.
Fruit-pitting machine. A. L. Duncan. 1,785,009; Dec. 16.
Fruit-pitting machine. A. L. Duncan. 1,785,022; Dec. 16.
Fruit-pitting machine. N. Felizianetti. 1,785,011; Dec. 16.
Fruit-pitting machine. A. R. Thompson. 1,785,017; Dec. 16.
Fruit-pitting machines, Method and apparatus for clearing. A. L. Duncan. 1,784,008; Dec. 16.
Fruit preparatory to removing the pit therefrom, Apparatus for feeding, trimming, and cutting. A. L. Duncan. 1,785,000; Dec. 16.
Fruit-treating method and apparatus. A. L. Duncan. 1,785,001; Dec. 16.
Fuel burner. O. M. Coon. 1,784,927; Dec. 16.
Fuel burner, Liquid-. E. F. White. 1,785,707; Dec. 16.
Fuel-feed system for internal-combustion engines of automobiles. L. P. Barlow. 1,785,573; Dec. 16.
Fuel, Method of and apparatus for reatomizing. J. A. Secor. 1,785,501; Dec. 16.
Fuel-supply apparatus. J. V. Pacher. 1,785,094; Dec. 16.
Fungicidal and insecticidal composition and preparing same. L. P. Curtin. 1,785,074; Dec. 16.
Fungicide and disinfectant, Seed. H. Adler and G. A. McDonald. 1,785,472; Dec. 16.
Furnace: *See*—
Regenerative furnace.
Furnace and conveyer therefor. R. S. Cochran. 1,734,812; Dec. 16.
Fuselage fitting. G. Caproni. 1,785,615; Dec. 16.
Game. L. C. Bump. 1,784,818; Dec. 16.
Game and apparatus, Baseball. P. T. Simmons. 1,785,148; Dec. 16.
Game apparatus. J. R. Hoge and L. D. Soubier. 1,785,088; Dec. 16.
Game apparatus. L. D. Soubier and E. J. Carl. 1,785,150; Dec. 16.
Garage construction. W. R. Hall. 1,784,870; Dec. 16.
Garment. R. F. Albert. 1,785,066; Dec. 16.
Garment. B. S. De Long. 1,784,824; Dec. 16.
Garment and fur steamer. H. P. Easton, jr. 1,785,619; Dec. 16.
Garment and seaming therefor. H. Miller. 1,784,942; Dec. 16.
Garments for women and children, Making. M. D. Neilson. Re17,903; Dec. 16.
Gas-filled discharge device. F. Meyer and H. J. Spanner. 1,784,877; Dec. 16.
Gas, Manufacture of combustible. H. O. Loebell. 1,785,519; Dec. 16.
Gas producer. J. F. Rogers. 1,784,882; Dec. 16.
Gas purifier, Electric. H. F. J. Nolze. 1,785,592; Dec. 16.
Gate: *See*—
Head gate.
Gauge: *See*—
Precision gauge.
Gear, Trawling. J-B. J. A. Vigneron. 1,785,236; Dec. 16.
Gearing, Differential. W. Kirn. 1,785,091; Dec. 16.
Generator: *See*—
Oscillation generator.
Glass, Apparatus for cutting sheet. C. A. Rowley. 1,785,496; Dec. 16.
Glass, Apparatus for gathering. K. E. Peiler. 1,785,209; Dec. 16.
Glass articles, Forming thin-walled. T. H. Sloan. 1,785,535; Dec. 16.
Glass, Drawing sheet. C. A. Rowley and J. A. Reece. 1,785,497; Dec. 16.
Glass for sealing, Preparing composite. J. H. Sherts. 1,785,099; Dec. 16.
Golf-scoring device. J. E. Swarthout. 1,785,288; Dec. 16.
Governor, Centrifugal. J. H. Robertson. 1,785,285; Dec. 16.
Grain elevator, Portable. E. Hartman. 1,784,872; Dec. 16.
Granular material, Method of and apparatus for handling. J. A. Paisley. 1,785,594; Dec. 16.
Grater. T. W. Bigoney. 1,785,244; Dec. 16.
Grille. J. A. Armstrong. Des. 82,778–81; Dec. 16.
Guide and brake, Front-wheel. P. P. Adams. 1,785,172; Dec. 16.
Hair drier. W. Meyer. 1,785,418; Dec. 16.
Hammers, Safety device for pneumatic. J. G. Bollock. 1,785,177; Dec. 16.
Hand bag, Lady's. G. Baumann. 1,785,609; Dec. 16.
Hand brake. C. A. Zweibel. 1,785,170; Dec. 16.
Hand grip and air connecter. A. E. Bronson. 1,784,817; Dec. 16.
Handle: *See*—
Tool handle.
Handle. C. S. Crickmer. 1,785,111; Dec. 16.
Handle, Motor-vehicle window-regulator. G. Graff. Des. 82,822; Dec. 16.
Hanger: *See*—
Door hanger.
Harness, Measuring. M. G. Couture. 1,784,888; Dec. 16.
Harness, Pattern-cutting. M. G. Couture. 1,784,889; Dec. 16.
Harvesting machine, Corn-. J. Powell. 1,785,647; Dec. 16.
Hat brim. H. Rolnick. 1,785,325; Dec. 16.
Hats and the product thereof, Making. C. Lipper. 1,785,637; Dec. 16.
Hauling unit. G. C. Jett. 1,785,124; Dec. 16.
Head gate, Portable irrigation. H. A. Ballard. 1,784,955; Dec. 16.
Headlight. G. A. Thom. 1,785,332; Dec. 16.
Heat-interchange device. H. G. Ullman. 1,785,159; Dec. 16.
Heater: *See*—
Air heater. Electric reflecting heater.
Bottle heater. Water heater.
Heater for curling irons, Gas. G. Ducart. 1,785,677; Dec. 16.
Heating, Method of. F. I. Raymond. 1,785,426; Dec. 16.
Heating systems, Apparatus for controlling. F. I. Raymond. 1,785,425; Dec. 16.
Heating unit for locomotive tenders. N. M. Lower. 1,785,275; Dec. 16.
Helicopter. S. Trey. 1,785,333; Dec. 16.
Hides or skins, Unhairing. G. D. McLaughlin, G. E. Rockwell, F. O'Flaherty, and J. H. Highberger. 1,785,092; Dec. 16.
Highway signal. N. J. Nielsen-Klodskov. 1,785,422; Dec. 16.
Hinge. W. N. Vance. 1,785,506; Dec. 16.
Hinge structure. E. A. Regan. 1,785,362; Dec. 16.
Hoist, Adjustable skip. W. G. Venard. 1,785,371; Dec. 16.
Holder, Blotter. N. D. Murray. 1,785,642; Dec. 16.
Holder, Condiment. W. A. Fisher. Des. 82,808; Dec. 16.
Holder, Flagstaff. J. S. Bitner. 1,785,509; Dec. 16.
Holder for electrical machines, Brush. C. W. Dake. 1,785,183; Dec. 16.
Holder for sifter-top cans or packages. L. S. Witherspoon. 1,784,979; Dec. 16.
Holder, Milk-bottle. R. J. Sims. 1,785,232; Dec. 16.
Holder, Plectrum. P. W. Johansson. 1,784,934; Dec. 16.
Holder, Steel-wool. S. Schulhoff. 1,785,653; Dec. 16.
Holder, Toothpick. C. M. Bartholomew. 1,785,107; Dec. 16.
Hopper feeding device. E. H. Humberstone and H. R. Welch. 1,785,585; Dec. 16.
Horn, Amplifier. J. B. Hawley. 1,785,193; Dec. 16.
Hose and air-pressure gauge, Combined compressed-air. C. A. Belz. 1,785,110; Dec. 16.
Hose clamp. C. C. Hansen. 1,785,550; Dec. 16.
Hose, Connecting device for fluid-pressure. J. C. Crowley. 1,784,821; Dec. 16.
Hose coupling. F. Ludwig. 1,785,638; Dec. 16.
Hose mender. S. R. Kelly. 1,785,314; Dec. 16.
Hydraulic machine. F. Lawaczeck. 1,785,354; Dec. 16.
Hydrocarbons, Apparatus for cracking. W. Miller. 1,785,042; Dec. 16.
Ice, Apparatus for manufacturing. F. Hanus. 1,784,834; Dec. 16.
Ice-cream-cone coater. O. Lange. 1,784,992; Dec. 16.
Ice, Device for making shaped pieces of. C. J. Gibson. 1,785,078; Dec. 16.
Ignition system. W. F. Hamilton. 1,785,411; Dec. 16.
Impedance device, Mechanical. P. B. Flanders. 1,784,830; Dec. 16.
Indexing table, Rotatable. P. A. Frazier. 1,785,408; Dec. 16.
Indicator. C. A. Boyer. 1,785,614; Dec. 16.
Ink-fountain drive. I. Tornberg. 1,785,158; Dec. 16.
Insecticide. J. H. Lamber. 1,785,451; Dec. 16.
Insulating joint. J. Rah. 1,784,881; Dec. 16.
Integrator and recorder. M. Morrison. 1,785,525; Dec. 16.
Internal-combustion engine. L. Berner. 1,785,176; Dec. 16.
Internal-combustion engine. A. M. Niven. 1,785,556; Dec. 16.
Internal-combustion engine. O. R. Schoenrock. 1,785,146; Dec. 16.
Iron, Apparatus for desulphurizing cast. L. W., Spring. 1,785,503; Dec. 16.
Ironing board. H. C. Morris. 1,785,280; Dec. 16.
Ironing table, Folding. C. Danielson. 1,784,959; Dec. 16.
Jack: *See*—
Adjustable jack. Pump jack.
Lifting jack.
Jail. D. F. Youngblood. 1,785,469; Dec. 16.
Jewelry, Ornamented. J. Schumer. 1,785,364; Dec. 16.
Joint: *See*—
Back-pressure joint. Insulating joint.
Electrode joint. Universal joint.
Joint for braces and the like, Folding. H. J. Gilbert. 1,785,342; Dec. 16.
Joint for rotary well-drilling columns, Stress and strain compensating. A. J. Ponti. 1,785,559; Dec. 16.
Journal Box. P. B. Liebermann. 1,785,032; Dec. 16.
Key case. J. A. Parrella. Des. 82,846; Dec. 16.
Knee pad. J. E. Shotwell. 1,785,213; Dec. 16.
Knob. H. J. Kasch. Des. 82,827; Dec. 16.
Lacing machine. H. D. Colman. 1,784,984; Dec. 16.
Laminated glass, Border seal for. R. W. Hackett and A. G. Worrall. 1,785,696; Dec. 16.
Lamp base or article of analogous nature. M. Kiwad. Des. 82,838; Dec. 16.

Lamp for signs and advertisements, Moving. K. F. R. von Diersburg. 1,785,465; Dec. 16.
Lamp, Railway signal. E. A. Everett. 1,785,516; Dec. 16.
Lamp, Table. S. J. Kaz. Des. 82,828; Dec. 16.
Lamp, Table. M. Kornbium. Des. 82,839; Dec. 16.
Lasting machine. F. Kennel. 1,785,555; Dec. 16.
Lasts, Increaser for. J. E. Swanson. 1,785,153; Dec. 16.
Latch. W. D. Ferries. Des. 82,805; Dec. 16.
Latch. A. B. Yancey. 1,785,468; Dec. 16.
Latch, Door. V. E. Johnson. 1,784,935; Dec. 16.
Latch for folding braces. H. J. Gilbert. 1,785,343; Dec. 16.
Latch, Hood. C. B. Gilmore. 1,784,931; Dec. 16.
Latch, Table-leg. G. J. Corporon. 1,785,616; Dec. 16.
Laundry machine. G. W. Dunham. 1,785,577–8; Dec. 16.
Lawn rake. C. Lorber. 1,785,320; Dec. 16.
Lead castings from metallic articles, Removal of. K. B. Bowman. 1,785,245; Dec. 16.
Leader carrier. S. O. Huffman. 1,784,965; Dec. 16.
Leer feeder. I. Simonis. 1,785,534; Dec. 16.
Lid adjuster, Piano-. E. B. Kursheedt. 1,785,486; Dec. 16.
Lifeboat. L. Cochard. 1,784,819; Dec. 16.
Lifter: *See*—
Valve lifter.
Lifting jack. B. F. Johnson. 1,785,554; Dec. 16.
Light for motor vehicles, Combined tail and stop. R. W. Johnson. Des. 82,825; Dec. 16.
Light signal, Check. O. A. Ross. 1,785,704; Dec. 16.
Light source, Inductive. T. W. Case. 1,785,070; Dec. 16.
Lighting fixture or article of similar nature. I. Rosenblatt. Des. 82,852; Dec. 16.
Lighting fixture or article of similar nature. W. von Nessen. Des. 82,861–2; Dec. 16.
Lighting unit, Vaporproof. J. A. Volk. 1,785,538; Dec. 16.
Line level. A. E. Christensen. 1,785,296; Dec. 16.
Liquids, Aldehyde-free, alcoholic. H. Heuser. 1,785,447; Dec. 16.
Loader. H. F. Gorsuch and A. S. Hughes. 1,785,119; Dec. 16.
Loading and unloading apparatus. C. D. Young. 1,785,167–8; Dec. 16.
Loading machine, Coal-. N. D. Levin. 1,785,201; Dec. 16.
Lock: *See*—
Cylinder lock. Switch-point lock.
Lock. L. L. Bresler. 1,785,335; Dec. 16.
Lock. J. Holtzman. 1,785,381; Dec. 16.
Lock washers, Mechanism for forming. C. G. Olson. 1,785,281; Dec. 16.
Locomotive. W. F. Kiesel, jr. 1,785,485; Dec. 16.
Locomotive tender. E. Ryan and E. R. Funk. 1,785,287; Dec. 16.
Loom, Filling-replenishing. F. A. F. Schmid. 1,785,227; Dec. 16.
Loud-speaker. L. de Forest and R. Halpenny. 1,785,377; Dec. 16.
Louver, Discharge. H. F. Schmidt. 1,785,228; Dec. 16.
Lubricant and producing the same. N. C. Beim. 1,784,809; Dec. 16.
Lumber package. H. H. Payzant. 1,785,360; Dec. 16.
Lumber trimmer, Hand-operated. C. W. Willette. 1,785,373; Dec. 16.
Machine for forming screw propellers. W. F. Newbrough. 1,784,972; Dec. 16.
Machine for making concrete pipes. S. H. Coogan. 1,785,298; Dec. 16.
Machine for making loose leaves for books. W. Flett. 1,785,546; Dec. 16.
Magnetic material. W. F. Brandsma, R. Dijksterhuis, G. J. Sizoo, and G. B. Jonas. 1,785,246; Dec. 16.
Magnetic material. G. W. Elmen. 1,784,827; Dec. 16.
Mail box. A. E. Blackman. 1,785,404; Dec. 16.
Manganese steel, Strain hardening. F. A. Fahrenwald. 1,784,865; Dec. 16.
Manifold, Gas heating. L. H. Berry. 1,784,924; Dec. 16.
Manual-training bench. C. H. Mason. 1,785,321; Dec. 16.
Marker, Street. W. S. Sherman. 1,785,602; Dec. 16.
Massecuite, Curing. J. Berge. 1,784,982; Dec. 16.
Material, Method of and apparatus for utilizing phase changeable. H. B. Rudd. 1,785,326; Dec. 16.
Materials, Apparatus for distilling solid carbonizable. F. T. Snyder. 1,785,565; Dec. 16.
Materials, Method of and apparatus for annealing. C. B. Kingsley. 1,785,264; Dec. 16.
Mattress, Folding. B. M. Frank. 1,785,252; Dec. 16.
Measuring and sampling means, Milk. R. Preston. 1,784,973; Dec. 16.
Mechanical movement. G. G. Lemons. 1,784,842; Dec. 16.
Mechanism for controlling knitting needles in plating operations. J. and R. H. Lawson. 1,785,200; Dec. 16.
Merchandise carrier. E. E. Aseltine. 1,785,665; Dec. 16.
Metal article and making the same, Composite. C. W. Miller and R. E. Bissell. 1,785,137; Dec. 16.
Metal bearing member and treating same. C. H. Seymour. 1,785,502; Dec. 16.
Metal plates for the production of printing plates, Preliminary treatment of. F. Ullmann. 1,785,606; Dec. 16.
Metal powders, Producing lamelliform. E. Podszus. 1,785,283; Dec. 16.
Metallic elements and alloys, Recovery of. H. M. Burkey and D. L. Ogden. 1,785,247; Dec. 16.
Metallurgical process. J. H. White. 1,785,060; Dec. 16.
Metals, Solvent inhibitor for the acid treatment of. W. S. Calcott and I. E. Lee. 1,785,513; Dec. 16.
Micrometric drawing instrument. F. Schwartz.
Mill: *See*—
Pulverizing mill.
Mining machine. M. P. Holmes. 1,785,196; Dec. 16.
1,78,,500; Dec. 16.
Mixing and flow device, Combined. L. E. Bunch. 1,785,670; Dec. 16.
Molding machine. T. O. Morris and J. J. Lawlor. 1,784,995; Dec. 16.
Mop, Dry. F. and T. Spaeth. 1,785,536; Dec. 16.
Mop head, Reversible. L. M. Thornton. 1,785,216; Dec. 16.
Motor: *See*—
Sun-heat motor. Two-cycle V motor.
Motor-control system. K. Rupprecht and R. Dietze. 1,785,597; Dec. 16.
Motor-control system. P. Weiske and K. Rupprecht. 1,785,567; Dec. 16.
Mounting for spectacles and eye-glasses, Nose-guard. L. C. Martin. 1,785,038; Dec. 16.
Mounting, Vacuum-cleaner-handle. E. Mross. 1,785,043; Dec. 16.
Mouthpiece for pipes and cigar holders. E. Paredes. 1,785,595; Dec. 16.
Multiple-break switch. H. J. Hammerly. 1,785,194; Dec. 16.
Multiple wrench. A. A. Kalo. 1,785,125; Dec. 16.
Music, Device to be used in teaching. G. M. Ekstedt. 1,785,440; Dec. 16.
Musical instrument. A. E. Overton. 1,785,206; Dec. 16.
Musical instruments, Attachment for fretted. S. W. Johnson. 1,785,311; Dec. 16.
Musical instruments, Process and apparatus for regulation of tone-producing quality of hammers in stringed. C. C. Woods. 1,785,165; Dec. 16.
Naphthalene and carbon bisulphide from gases, Removal of. G. E. Seil. 1,785,365; Dec. 16.
Napkin fixture. W. P. McCorkindale. 1,785,039; Dec. 16.
Neck adjuster for banjo-. W. L. Lange. 1,785,266; Dec. 16.
Neckpiece, Lady's. F. C. Merrilles. Des. 82,845; Dec. 16.
Nitrocellulose, Manufacture of. A. Hough, J. R. Dufford and W. C. Leonhard. 1,785,030; Dec. 16.
Nut cracker. C. B. Repp. 1,785,328; Dec. 16.
Nuts to metal plates, Attaching tapped. B. T. Andren. Re17,907; Dec. 16.
Oil-burning apparatus. H. A. Tiffany. 1,784,853; Dec. 16.
Oil-burning process. W. Symmes. 1,785,154; Dec. 16.
Oil can, Self-draining. S. E. Nord. 1,785,388; Dec. 16.
Oil-well packer. P. H. Mack. 1,785,276–7; Dec. 16.
Oils as addition agents to zinc-chloride-base fluxes, Sulphonated mineral. W. K. Schweitzer. 1,785,147; Dec. 16.
Oils, Treating petroleum. W. M. Cross. 1,785,073; Dec. 16.
Ophthalmic mountings, Link bridge for. H. H. Styll. 1,784,916; Dec. 16.
Ore and converting hydrocarbons, Reducing. W. H. Smith. 1,785,428; Dec. 16.
Ore classifier. T. A. Dickson. 1,785,302; Dec. 16.
Ore-reducing and hydrocarbon-refining apparatus, Combined. W. H. Smith. 1,785,427; Dec. 16.
Organ-stop action. E. Verlinden. 1,784,951; Dec. 16.
Ornament, Mechanical radiator. C. L. Hawes. 1,784,988; Dec. 16.
Ornament, Shoe. S. M. Riker. Des. 82,847; Dec. 16.
Ornamentation, Glass. E. Zuckerberg. 1,785,401; Dec. 16.
Orthopedic appliance. I. Buckner. 1,785,376; Dec. 16.
Oscillation generator. W. A. Marrison. 1,785,036; Dec. 16.
Oven, Drop-door. E. A. Chandler and J. H. McCann. 1,785,514; Dec. 16.
Oven structure. A. E. Grapp. 1,785,079; Dec. 16.
Overall. E. O. Fellroth. 1,785,580; Dec. 16.
Overgarment. E. O. Fellroth. 1,785,581; Dec. 16.
Overshot. F. and A. L. Stone. 1,785,152; Dec. 16.
Package-opening device. O. T. Maurer. 1,785,639; Dec. 16.
Packing, Compressible. S. Imermann. 1,784,899; Dec. 16.
Packing, Swivel-joint. G. Christenson. 1,784,926; Dec. 16.
Pad: *See*—
Knee pad.
Pad and pencil holder, Combined telephone. L. A. Meltzer. Des. 82,844; Dec. 16.
Paint and varnish remover. J. J. McEvoy and C. H. Upson. 1,785,417; Dec. 16.
Paperboard and the like, Treating. R. Kastner and H. Schmolka. 1,785,484; Dec. 16.
Paper clip. G. Boden. 1,785,511; Dec. 16.
Paper, Sheathing. C. Gilmore. 1,785,379; Dec. 16.
Pen, Draftman's fountain and lettering. E. L. Delaney. 1,785,478; Dec. 16.
Pen, Fountain. A. Goldknopf. 1,785,680; Dec. 16.
Pencil. F. Furedy. Des. 82,821; Dec. 16.
Pencil, Combination. F. de la Torre. 1,785,187; Dec. 16.
Petrolatum and the like and product obtained thereby, Preparing. F. Lavirotte. 1,785,270; Dec. 16.

Phonograph needle. L. A. Morrison. 1,784,845; Dec. 16.
Phonograph records, Electric pickup for. H. J. Toegel. 1,785,157; Dec. 16.
Picture frame. S. Maggio. Des. 82,842; Dec. 16.
Picture screen for use in connection with sound pictures, Moving-. W. J. Schoonmaker. 1,785,330; Dec. 16.
Picture transmission. F. Schröter. 1,784,850; Dec. 16.
Pictures against pocket mirrors, Attachment for holding. B. C. Melton. 1,784,970; Dec. 16.
Pictures on chromated gel-layers, Manufacture of photographic. N. Lebedenko. 1,785,635; Dec. 16.
Pin: *See*—
Cotter pin.
Pin holdfast, Double-. A. Lösch. 1,784,843; Dec. 16.
Pipe: *See*—
Smoker's pipe.
Pipe assembly, Flexible. E. W. Patterson. 1,785,095; Dec. 16.
Pipe lines, Method and apparatus for cleaning. G. A. Shaner, R. E. Damp, and G. G. Donovan. 1,785,230; Dec. 16.
Pipe, Producing taper-slotted. C. J. Coberly. 1,785,071; Dec. 16.
Pipes by centrifugal action, Manufacture of lining of. E. S. Hume. 1,785,586; Dec. 16.
Piperidine derivative and producing it. S. M. McElvain. 1,784,903; Dec. 16.
Piston-ring peener. J. Shaw. 1,785,212; Dec. 16.
Pitting and coring machine. A. L. Duncan. 1,785,010; Dec. 16.
Plant wounds, Composition for and process of treating. I. E. Melhus. 1,785,641; Dec. 16.
Plate or similar article. U. Tomita. Des. 82,858; Dec. 16.
Pot: *See*—
Tin pot.
Pot for line-casting machines, Metal. LeR. W. Willis. 1,785,607; Dec. 16.
Power plant, Internal-combustion. W. G. Noack and J. de Frendenreich. 1,785,643; Dec. 16.
Power transmission. J. C. Smoot. 1,785,051; Dec. 16.
Power transmission gearing for use on railway and other vehicles. A. E. Honey. 1,785,197; Dec. 16.
Precision gauge. W. and H. S. Jandus. 1,785,383; Dec. 16.
Press: *See*—
Filter press. Screw press.
Printing press. Soap press.
Rimming press.
Press for paper, cardboard, or the like, Cutting and creasing. J. I. Nasmith. 1,785,526; Dec. 16.
Presses, Lubricating perforator. J. T. Wright. Re17,905; Dec. 16.
Printing press. H. R. Trotter. 1,785,504–5; Dec. 16.
Printing, Production of. H. Renck. 1,785,210; Dec. 16.
Printing roller. C. Cattran. 1,785,673; Dec. 16.
Propeller, Metal. C. Dornier. 1,785,543; Dec. 16.
Protective system. S. L. Baum. 1,785,718; Dec. 16.
Protector for trousers, Knee. C. Sheffold. 1,785,396; Dec. 16.
Protector, Wheel-hub. H. E. Kiehlbauch. 1,785,127; Dec. 16.
Pulley block. A. R. Campbell. 1,784,925; Dec. 16.
Pulley construction, Crown-block-. E. E. Greve. 1,785,255; Dec. 16.
Pulp making and apparatus therefor. G. A. Richter. 1,784,849; Dec. 16.
Pulverizing mill. F. J. Bullock. 1,785,435; Dec. 16.
Pulverulent materials, Elevating. T. J. Tellefsen. 1,785,604; Dec. 16.
Pump jack. R. T. Cruikshank. 1,784,823; Dec. 16.
Pump, Metering. F. McIntyre. 1,785,386; Dec. 16.
Pump or engine, Rotary. E. Groesbeck. 1,785,444; Dec. 16.
Pump or the like. G. A. Schlotter. 1,785,460; Dec. 16.
Pump, Rotary fluid. T. L. Morris. 1,785,140; Dec. 16.
Pump, Spinning. C. W. Lawser. 1,785,355–6; Dec. 16.
Pump, Stuff. A. Aldrich. 1,785,687; Dec. 16.
Pump, Sump. J. L. Oberdorfer. 1,785,557; Dec. 16.
Pump, Syrup. D. C. Seitz. 1,784,977; Dec. 16.
Pumping apparatus for sewage and other liquids. A. C. Durdin, jr. 1,785,480; Dec. 16.
Pumping mechanism for washing machines. G. W. Dunham. 1,785,579; Dec. 16.
Punch and die retainer. C. C. Richard. 1,785,495; Dec. 16.
Punch, Film. E. I. Sponable. 1,785,215; Dec. 16.
Push-button unit, Multiple-. A. E. Hetzner. 1,785,087; Dec. 16.
Putting green, Indoor portable practice. H. R. Busse. 1,784,863; Dec. 16.
Pyranthrone derivatives, Manufacture of. A. Shepherdson and S. Thornley. 1,785,600–1; Dec. 16.
Pyrolysis. N. E. Loomis, A. H. Tomlinson, and F. A. Howard. 1,785,274; Dec. 16.
Quilting machine. J. R. Russell. 1,785,049; Dec. 16.
Radiating element, Attachable. J. Gabor. 1,785,621; Dec. 16.
Radiator cap. K. Forbes. Des. 82,809; Dec. 16.
Radiator, Engine-cooling. C. Oppe. 1,784,878; Dec. 16.
Radio. J. J. Hazard. 1,785,627; Dec. 16.
Radio apparatus, Portable. W. M. Heina. 1,785,552; Dec. 16.
Radiocabinet. H. Berg. Des. 82,783; Dec. 16.
Rafter-framing machine, Universal. J. Nickels. 1,785,044; Dec. 16.
Rail and cooperating tie plate for railways, Anticreeping. A. M. Peterson. 1,784,846; Dec. 16.
Rail construction, Ramp-. C. D. Young. 1,785,169; Dec. 16.
Railroad tie. E. C. Rassel. 1,785,324; Dec. 16.
Railroads, Switch machine for. W. K. Howe. 1,785,698; Dec. 16.
Railroads, Train-dispatching system for. S. N. Wight. 1,785,708; Dec. 16.
Railway grade crossing accidents, System for automatically preventing. M. E. McKee. 1,785,093; Dec. 16.
Railway tie. F. L. Klingensmith. 1,784,901; Dec. 16.
Rake: *See*—
Lawn rake.
Rake. C. J. Rocquin. 1,784,947; Dec. 16.
Range, Gas. R. D. Wells. 1,785,568; Dec. 16.
Ratio-adjusting switch. L. F. Blume. 1,785,093; 1,785,575; Dec. 16.
Razor. P. D. Grisard. 1,785,189–90; Dec. 16.
Razor, Safety. E. W. Ericsson. 1,785,545; Dec. 16.
Razor, Safety. H. J. Galsman. 1,785,077; Dec. 16.
Razor, Safety. H. C. Hart. 1,785,446; Dec. 16.
Razor, Safety. E. C. Sasser. 1,785,652; Dec. 16.
Receptacle, Button. J. C. Day. 1,785,186; Dec. 16.
Receptacle, Duplex. H. L. Strongson. 1,785,463; Dec. 16.
Receptacle, Lamp. C. L. Nicholson, 2d. 1,785,205; Dec. 16.
Record-resurfacing machine. V. L. Frykman. 1,785,409; Dec. 16.
Recorder: *See*—
Sound recorder.
Recording device for telegraphic signaling, Optical. E. Belin. 1,785,610; Dec. 16.
Records, Cutting phonograph. E. J. Quinby. 1,785,047; Dec. 16.
Rectifier. F. Gray. 1,784,869; Dec. 16.
Reel for fishing rods, Casting. A. McDougall. 1,785,488; Dec. 16.
Refrigerating mechanism. H. A. Brysselbout. 1,785,576; Dec. 16.
Refrigeration. C. G. Munters. 1,785,700; Dec. 16.
Refrigeration mechanism, Control for. T. J. Litle, jr. 1,785,699; Dec. 16.
Refuse, Storing and removing. F. B. Allen. 1,785,539; Dec. 16.
Regenerative furnace, Open-hearth. J. O. Griggs. 1,785,549; Dec. 16.
Register: *See*—
Cash register.
Register for airplanes, Elapsed-time. C. C. Brant. 1,785,724; Dec. 16.
Regulator: *See*—
Electrical regulator. Feed-water regulator.
Regulator. L. W. Thompson. 1,785,566; Dec. 16.
Regulator for centrifuges, Liquid-flow. B. R. Wright. 1,784,953; Dec. 16.
Regulator for clock movements. W. J. Large and J. O. Simpson. 1,785,267; Dec. 16.
Relay for pneumatic-tube systems, Single-selector. W. V. McGuinness. 1,784,967; Dec. 16.
Reproducing process. B. P. Scott. 1,784,913; Dec. 16.
Residues, Reclaiming. A. E. Becker and R. G. Sloane. 1,785,242; Dec. 16.
Rimming press. W. H. Campbell. 1,785,671; Dec. 16.
Ring: *See*—
Cam ring. Piston ring.
Finger ring.
Road surfaces, Making. M. Lévy. 1,785,130; Dec. 16.
Roads and the like, Construction of. L. H. A. Dunker. 1,784,895; Dec. 16.
Rocking-horse. A. J. Jesswein. 1,784,875; Dec. 16.
Rod: *See*—
Fishing rod. Valve push rod.
Rod and crosshead, Connecting. W. F. Hiatt. 1,784,837; Dec. 16.
Rodent trap. R. Merkl. 1,784,904; Dec. 16.
Roller: *See*—
Printing roller.
Rubber articles and producing the same. H. R. Haertel. 1,785,081–2; Dec. 16.
Rubber articles and producing the same. H. R. Haertel. 1,785,084–5; Dec. 16.
Rubber articles, Producing. H. R. Haertel. 1,785,083; Dec. 16.
Rubber composition and method of preserving rubber. P. C. Jones. 1,784,838; Dec. 16.
Rubbing machines, Pad holder for. G. H. Ekstrom. 1,785,695; Dec. 16.
Rug-tufting machine. N. E. Hanson. 1,785,625; Dec. 16.
Rug-tufting machine. A. S. Riviere. 1,785,650; Dec. 16.
Sand cap. J. D. Lemex and D. R. Smith. 1,785,272; Dec. 16.
Sand screen. W. H. Wangelin. 1,785,161; Dec. 16.
Saw, Rotary. B. L. Aborn. 1,785,065; Dec. 16.
Scaffold. W. G. Venard. 1,785,399; Dec. 16.
Scale, Flow-controlling. E. G. Thomas. 1,785,370; Dec. 16.
Scale, Spring. H. M. Brigham. 1,785,541; Dec. 16.
Scale, Weighing. S. N. Hurt. 1,785,382; Dec. 16.
Scarfpin. C. S. Bichele. Des. 82,784–9; Dec. 16.
Screen: *See*—
Sand screen.
Screen for casement windows. H. Higgin. 1,785,584; Dec. 16.

Screw press, Continuous. W. McDonald. 1,785,041; Dec. 16.
Screw-thread cleaner. R. M. Cornett. 1,785,406; Dec. 16.
Semitrailers, Fifth-wheel construction for. H. W. Helms. 1,785,697; Dec. 16.
Separator. C. T. Hatch. 1,785,346; Dec. 16.
Separator for light liquids. I. V. Müller. 1,784,943; Dec. 16.
Separator plate. A. S. Behrman. 1,784,981; Dec. 16.
Sewing machine, Label-. P. W. Hatfield. 1,785,412; Dec. 16.
Sewing machines, Operating mechanism for. S. F. Stein. 1,785,462; Dec. 16.
Sheets and applying adhesive thereto, Assembling. C. C. Howard. 1,785,261; Dec. 16.
Shim-holder cap, Adjustable. S. Petersen. 1,785,596; Dec. 16.
Shingle and veneer Cutting machine. J. E. Eckersley. 1,785,439; Dec. 16.
Shipping metal, Method and apparatus for. R. T. Romine. 1,784,909; Dec. 16.
Shock absorber. G. W. Blackinton. 1,785,510; Dec. 16.
Shock absorber for landing gears of airplanes. E. Daland. 1,785,339; Dec. 16.
Shoe, Bathing. E. Gorjan. 1,785,623; Dec. 16.
Shoe, Cushioned. F. M. Gilkerson. 1,785,410; Dec. 16.
Shoe, Turned. F. Maccarone. 1,785,035; Dec. 16.
Shoe, Woman's. S. Troy. Des. 82,859–60; Dec. 16.
Shoes, Making. A. W. Matthews. 1,784,940; Dec. 16.
Shot, Making plated. E. Pugsley. 1,785,493; Dec. 16.
Show article. P. Kreslawsky. 1,784,937; Dec. 16.
Shutter, Automobile radiator. J. G. Giampaoli. 1,785,482; Dec. 16.
Shutter, Objective. B. Nerrlich. 1,785,142; Dec. 16.
Shuttle, Automatically-threading loom. C. D. Brown 1,785,218–22; Dec. 16.
Shuttle, Automatically-threading loom. H. A. Davis. 1,785,225; Dec. 16.
Shuttle, Automatically-threading loom. C. H. Draper. 1,785,223; Dec. 16.
Shuttle, Automatically-threading loom. V. Lindsjo. 1,785,224; Dec. 16.
Shuttle, Automatically-threading loom. H. White and G. M. F. Depfer. 1,785,226; Dec. 16.
Sign. E. B. Roll. 1,785,145; Dec. 16.
Sign, Changeable. O. J. Nelson and F. G. Baender. 1,785,204; Dec. 16.
Sign, Electric. F. E. J. Wilde. 1,784,861; Dec. 16.
Sign, Luminous. R. W. Fisher. 1,785,341; Dec. 16.
Signs for advertising purposes, Producing and displaying changeable. A. E. Tilburn. 1,785,429; Dec. 16.
Signal: *See*—
Color-light signal. Light signal.
Highway signal. Stop signal.
Signal device, Fuel. R. D. Schnoor. 1,785,329; Dec. 16.
Signals, Apparatus for the control of highway crossing. R. M. Gilson. 1,784,868; Dec. 16.
Signaling, Electric. L. Cohen. 1,785,297; Dec. 16.
Signaling system. J. F. Farrington. 1,784,867; Dec. 16.
Signaling system. M. H. Shoenberg and L. Schon. 1,785,366; Dec. 16.
Signaling system, Automobile. M. H. Shoenberg and L. Schon. 1,785,397; Dec. 16.
Signaling system, Privacy. S. W. Dean and C. N. Anderson. 1,784,891; Dec. 16.
Skimmer. C. C. Barnes. 1,785,689; Dec. 16.
Slag screen and wall-cooling means. H. J. Kerr. 1,785,350; Dec. 16.
Sled or sleigh, Pleasure. F. Wels. 1,785,467; Dec. 16.
Smoke, Apparatus for determining the density of. F. Sawford. 1,785,393; Dec. 16.
Smoke, Device for indicating and recording the quality of. F. and F. Sawford, jr. 1,785,392; Dec. 16.
Smoker's pipe. S. Pavloff. 1,785,208; Dec. 16.
Smoker's stand. H. Dalton. Des. 82,800; Dec. 16.
Soap, Apparatus for producing shredded. J. A. Schwantes. 1,785,532; Dec. 16.
Soap manufacture. J. A. Schwantes. 1,785,533; Dec. 16.
Soap powder from soap stock high in fatty acid, Producing. C. K. Stodder. 1,785,054; Dec. 16.
Soap press. R. A. Jones. 1,785,312; Dec. 16.
Socket sleeve. T. J. Scofield. 1,785,211; Dec. 16.
Socket, Slip. W. A. O'Bannon. 1,785,644; Dec. 16.
Soldering. H. S. McQuaid. 1,785,134; Dec. 16.
Sound-absorbing materials, Facing membrane for. H. F. Weiss. 1,785,507; Dec. 16.
Sound-amplifying means. F. C. Hinckley. 1,785,553; Dec. 16.
Sound recorder. C. F. Wiebusch. 1,784,860; Dec. 16.
Sound-recording system. E. C. Wente. 1,784,858; Dec. 16.
Sound-reproducing system. A. C. Keller. 1,784,839; Dec. 16.
Sound, System for electrically transmitting and reproducing. J. L. Reynolds. 1,785,048; Dec. 16.
Spear, Automatic resetting. W. J. Miller. 1,785,590; Dec. 16.
Speech transmission. H. W. Dudley. 1,784,825; Dec. 16.
Speed agitator drive, Differential-. S. Schiff. 1,785,562; Dec. 16.
Spinning and twisting machine. J. S. Rabert. 1,785,560; Dec. 16.
Spoke. M. J. and P. P. Adams. 1,785,171; Dec. 16.
Spoon and clip, Combined. F. Phillipson. 1,784,880; Dec. 16.
Spring: *See*—
Balancing spring.
Spring. R. E. McGee. 1,785,489; Dec. 16.
Spring catch and like device. A. W. Kimbell. 1,784,936; Dec. 16.
Spring connection, Antifriction. R. R. Searles. 1,785,654; Dec. 16.
Spring shackle. J. W. Smith. 1,785,685; Dec. 16.
Spring structure. F. O'Brien. 1,785,358; Dec. 16.
Spring structure. J. M. Oldham. 1,785,359; Dec. 16.
Springs, Connecting. A. Gerlowski. 1,785,188; Dec. 16.
Stairway guard. D. E. McAvoy. 1,785,487; Dec. 16.
Stanchion, Cattle. W. E. Currie and P. de Vries. 1,784,890; Dec. 16.
Starter, Engine. R. P. Lansing. 1,785,319; Dec. 16.
Steam engine. H. G. Mueller. 1,785,455; Dec. 16.
Steel, Manufacture of low-carbon chrome. F. O. Kichline. 1,785,199; Dec. 16.
Steel, Silicon. V. B. Browne. 1,784,811; Dec. 16.
Steel, Strain-hardening. F. A. Fahrenwald. 1,784,866; Dec. 16.
Steering apparatus, Aeroplane-. R. Guillemette. 1,785,306; Dec. 16.
Stencil sheet. S. Horli. 1,785,260; Dec. 16.
Stenciling. B. P. Scott. 1,784,912; Dec. 16.
Stereoscopic measuring instrument. R. Hugershoff. 1,785,448; Dec. 16.
Stereotype-plate-casting machine, Multiple-. H. A. W. Wood. 1,785,164; Dec. 16.
Stocking. W. D. Butz. Des. 82,792–6; Dec. 16.
Stocking protector. C. Lorenz and E. Boecher. 1,785,033; Dec. 16.
Stop signal, Vehicle. H. M. Smith. 1,784,884; Dec. 16.
Store front. A. I. Elias. Des. 82,804; Dec. 16.
Stove, Gas. A. J. Reedy. Des. 82,850; Dec. 16.
Stove, Gas. W. F. Rogers. Des. 82,851; Dec. 16.
Stove, Knockdown. H. Oonk. 1,785,143; Dec. 16.
Streamline arrow and string-engaging means therefor. E. G. Mead. 1,785,589; Dec. 16.
String for skeins, Tying. H. Hofmann. 1,785,414; Dec. 16.
Submarines, Escape tube for. H. A. Studwell. 1,784,915; Dec. 16.
Sun-heat motor. T. Romagnoli. 1,785,651; Dec. 16.
Support, Ceiling. W. E. White. 1,785,061; Dec. 16.
Support for railway rails. H. Etheridge. 1,785,251; Dec. 16.
Support for vacuum tubes. M. Alden. 1,785,239; Dec. 16.
Support, Lighting fixture. I. Wolarsky. 1,784,885; Dec. 16.
Support, Locomotive-boiler. H. K. Harwick. 1,785,626; Dec. 16.
Support or corset, Abdominal. V. A. White. 1,785,162; Dec. 16.
Support, Shoe. W. R. Barclay. 1,784,923; Dec. 16.
Surveying instrument. W. T. Rhodes. 1,785,284; Dec. 16.
Suspender end top link. L. W. Shields. Des. 82,854; Dec. 16.
Switch: *See*—
Circuit switch. Electrical switch.
Compensating switch. Multiple-break switch.
Double-throw switch. Ratio adjusting switch.
Electric switch.
Switch. H. A. George. 1,784,930; Dec. 16.
Switch and outlet box. J. E. Milcoff. 1,785,524; Dec. 16.
Switch-point lock. F. Isaacson and W. M. Caughlan. 1,785,630; Dec. 16.
Switch structure, Railway-. H. L. Miller. 1,785,454; Dec. 16.
Syringe attachment. J. W. Brunette. 1,785,293; Dec. 16.
Syringe, Hypodermic. A. E. Smith. Re17,906; Dec. 16.
Table: *See*—
Folding table. Ironing table.
Indexing table.
Tack-feeding device. K. Wolny. 1,785,570; Dec. 16.
Take-up device. W. P. Hunter. 1,785,629; Dec. 16.
Tank for chromium plating. C. R. Gleason. 1,784,987; Dec. 16.
Tank for stock cars, Water. I. V. Edgerton. 1,784,826; Dec. 16.
Telegraphic transmitting instrument. W. D. Cooper. 1,785,072; Dec. 16.
Telephone-exchange system. G. H. Morency. 1,784,905; Dec. 16.
Temperature-controlling means, Motor-. S. H. Page. 1,785,207; Dec. 16.
Temperature-indicating device. P. G. Waterloo. 1,785,662; Dec. 16.
Tension-holding member for concrete-reenforcement-tensioning devices. H. Sorensen. 1,785,214; Dec. 16.
Testing apparatus. H. S. Taylor. 1,784,978; Dec. 16.
Theatrical effects, Producing. W. Herrschaft. 1,785,347; Dec. 16.
Thermometer, Electrical. J. W. Allen. 1,784,922; Dec. 16.
Thermostats, Dirt trap for. C. H. Morrow. 1,785,387; Dec. 16.
Thiazoles, Preparing. L. B. Sebrell and J. Teppema. 1,785,656; Dec. 16.

Thiosemicarbazones of hydroxy arsenobensenes and preparing the same. K. Streitwolf and A. Fehrle. 1,785,660; Dec. 16.
Ticket for telephone service, Memorandum. G. D. Cox. 1,784,813; Dec. 16.
Tickets, Method of and apparatus for making. S. L. H. Eberhardt. 1,785,250; Dec. 16.
Tie: *See*—
Railroad tie. Railway tie.
Tile-forming machine. H. W. Reel. 1,784,847; Dec. 16.
Tin pot. J. T. McQuiston. 1,785,322; Dec. 16.
Tire boot. W. R. Pinneo. 1,785,390; Dec. 16.
Tire-building machine. W. C. State. 1,785,659; Dec. 16.
Tire flap. R. S. Burdette. 1,785,691; Dec. 16.
Tire or similar article. F. S. Young. Des. 82,867; Dec. 16.
Tire, Pneumatic. W. E. Shively. 1,785,657; Dec. 16.
Tobacco can. A. E. Calvird. 1,785,294; Dec. 16.
Toilet flusher. L. B. Nordlund. 1,784,944; Dec. 16.
Tool handle. H. L. Bassett. 1,785,608; Dec. 16.
Tool, Mortising. W. M. Knourek. 1,785,351; Dec. 16.
Tool-retaining device. M. J. Schlitters, jr., and S. Imerman. 1,784,911; Dec. 16.
Tool, Weeding. A. Roesch and J. Roettinger. 1,785,531; Dec. 16.
Tool, Well fishing. L. E. Davis. 1,785,299; Dec. 16.
Tools, Zeroizing scale for work-positioning mechanism for machine. J. C. and R. D. Shaw. 1,785,395; Dec. 16.
Toothbrush. S. Eisenberg. 1,784,986; Dec. 16.
Tooth clamp. L. Haller. 1,785,624; Dec. 16.
Torch, Cutting and welding. A. F. Jenkins. 1,784,964; Dec. 16.
Toroidal inductance device. E. C. Hagemann. 1,784,833; Dec. 16.
Torque-impulse multiplier. G. B. Coleman. 1,785,338; Dec. 16.
Tower, Cooling. R. O. Anderson, U. S. Rudy, and B. M. Gessel. 1,785,572; Dec. 16.
Toy. N. Deakides. Des. 82,801; Dec. 16.
Toy aeroplane. F. S. Rimer. 1,784,946; Dec. 16.
Toy and display device, Educational. C. and C. D. Fisher. 1,785,442; Dec. 16.
Toy or similar article. W. E. Disney. Des. 82,802; Dec. 16
Tracer, Dead-reckoning. M. F. Bates. 1,785,241; Dec. 16.
Track sander for motor vehicles. F. Florian. 1,784,832; Dec. 16.
Track-shifting apparatus. G. J. Holt and W. Longevin. 1,784,963; Dec. 16.
Tractors, Earth-working attachment for. A. S. Hughes. 1,785,122; Dec. 16.
Traffic-controlling apparatus, Railway-. H. G. Blosser and R. A. McCann. 1,784,816; Dec. 16.
Traffic-controlling apparatus, Railway-. H. A. Thompson. 1,784,851; Dec. 16.
Train control. W. D. Cloud. 1,785,693; Dec. 16.
Train control. H. B. Taylor. 1,785,706; Dec. 16.
Train-control system, Automatic. W. H. Reichard. 1,785,703; Dec. 16.
Transformer system. H. Whittle. 1,785,062; Dec. 16.
Transmission. E. Wildhaber. 1,784,919–20; Dec. 16.
Transmission system, Mechanical. H. C. Harrison. 1,784,871; Dec. 16.
Trap: *See*—
Animal trap. Rodent trap.
Crab trap.
Traveling case. S. Apter. Des. 82,782; Dec. 16.
Tray, Ash. A. Culin. Des. 82,799; Dec. 16.
Tray, Ash. E. M. Grilley. 1,785,305; Dec. 16.
Treatment for liners. P. Beebe. 1,785,667; Dec. 16.
Trimmer: *See*—
Lumber trimmer.
Truck. W. Stuebing, jr. 1,785,368; Dec. 16.
Truck. W. Zeindler. 1,785,064; Dec. 16.
Truck bolster. Railway-car-. T. H. Symington. 1,785,056; Dec. 16.
Truck, Lift. W. Stuebing, jr. 1,785,369; Dec. 16.
Truck, Snow-hauling. J. A. Ortiz. 1,785,423; ; Dec. 16.
Tube expanders and the like, Operating device for. G. Wiedeke. 1,785,103; Dec. 16.
Tube system, Pneumatic. W. V. McGuinness. 1,784,968; Dec. 16.
Tubing for newel posts, Square. H. Felsenthal. 1,785,025; Dec. 16.
Tubular members, Connecting. E. P. Lehmann. 1,785,129; Dec. 16.
Tunnel. R. V. Proctor. 1,785,096; Dec. 16.
Turpentine and pine-tar oils into heavier oils, Converting. E. B. Smith. 1,784,949; Dec. 16.
Twisting machine. W. K. Weston. 1,784,859; Dec. 16.
Two-cycle V-motor. E. H. Belden. 1,785,175; Dec. 16.
Typewriting machine. G. F. Handley. 1,785,445; Dec. 16.
Underwear garment. E. W. Robischon. 1,785,286; Dec. 16.
Universal joint. A. F. Pieper. 1,785,558; Dec. 16.
Unstacking machine. A. E. Bronson and A. M. Braden. 1,785,374; Dec. 16.
Upholstery, harness, and pack for aircraft chairs, Padded. J. F. Smith. 1,784,996; Dec. 16.
Urn, Flower. C. L. Agnell. 1,785,430; Dec. 16.
Utensil, Kitchen. C. H. Hale and H. J. Kleefisch. 1,785,191; Dec. 16.
Vaccine for hog cholera and manufacturing the same. M. Dorset. 1,784,928; Dec. 16.
Vacuum cleaner. K. K. Cundiff. 1,785,675; Dec. 16.
Valve. J. W. MacClatchie. 1,785,278; Dec. 16.
Valve and switch operating means. E. A. Larsson. 1,785,268; Dec. 16.
Valve, Balanced. J. W. Tucker. 1,785,289; Dec. 16.
Valve construction for slush pumps. H. P. Hickerson. 1,785,259; Dec. 16.
Valve, Distribution. C. W. Dake. 1,785,184; Dec. 16.
Valve for air gauges. H. and R. Stanley. 1,785,658; Dec. 16.
Valve for milking machines. M. Keener. 1,785,313; Dec. 16.
Valve lifter. J. P. McCready. 1,785,040; Dec. 16.
Valve push rod. B. R. Helmendinger. 1,785,308; Dec. 16.
Valve, Shut-off. C. H. Bliven. 1,785,475; Dec. 16.
Valve-silencing mechanism. C. J. McLeod. 1,785,523; Dec. 16.
Valve, Subterranean check. J. J. Mohler. 1,785,138; Dec. 16.
Vanity case. G. W. Dunnican. 1,785,303; Dec. 16.
Vanity case or analogous article. D. H. Zell. Des. 82,868–9; Dec. 16.
Vault, Burial. F. L. Temple. 1,785,156; Dec. 16.
Vault, Grave. R. E. Smith. Des. 82,855; Dec. 16.
Vehicle body. A. Rosman. 1,784,975; Dec. 16.
Vehicle with actuated doors, Dump. H. F. Flowers. 1,785,678; Dec. 16.
Vehicles in garages, Handling. G. Lowenstein. 1,785,034; Dec. 16.
Vehicles, Safety means for motor. G. Santangelo. 1,785,598; Dec. 16.
Ventilator: *See*—
Window ventilator.
Ventilator., G. E. Black. 1,785,540; Dec. 16.
Ventilator. J. L. Jensen. 1,785,263; Dec. 16.
Ventilator construction. B. Landau. 1,784,841; Dec. 16.
Vessel-capping machine. C. L. Turner. 1,785,235; Dec. 16.
Vise, Saw. J. Blumer. 1,785,613; Dec. 16.
Wagon. M. J. Adams. 1,785,717; Dec. 16.
Wall for reaction towers. F. J. Bowman. 1,785,178; Dec. 16.
Watch attachment, Wrist-. R. F. Campbell. 1,784,887; Dec. 16.
Water heater. L. Ganz. 1,785,304; Dec. 16.
Waterproof fibrous product. H. L. Levin. 1,785,357; Dec. 16.
Waterproofing of materials. W. A. Bridgeman. 1,785,434; Dec. 16.
Water-soluble product from fatty acids occurring in wool fat. G. Mauthe and A. Thauss. 1,784,941; Dec. 16.
Water-treating apparatus. E. G. Duden. 1,784,893; Dec. 16.
Wave source, Constant-frequency-. W. A. Marrison. 1,784,844; Dec. 16.
Wave transmission, Control of. F. A. Hubbard. 1,784,874; Dec. 16.
Weather strip. M. E. Bosley. 1,785,476; Dec. 16.
Weather strip for doors, Automatic. J. W. Carter. 1,785,672; Dec. 16.
Weather strip, Threshold. W. B. Bailey. 1,785,431; Dec. 16.
Weed cutter. I. W. Fisher. 1,785,443; Dec. 16.
Weighing device for dial balances. J. Dockl. 1,785,542; Dec. 16.
Well-casing perforator. R. Moss. 1,785,419; Dec. 16.
Well-drilling equipment. R. Wilkins. 1,785,163; Dec. 16.
Well packer. G. A. Humason. 1,785,123; Dec. 16.
Wells, Apparatus for drilling. L. E. Zerbe and M. T. Archer. 1,785,238; Dec. 16.
Wheel cleats or lugs, Quickly attaching and detaching tractor-. T. J. Calhoon. 1,784,958; Dec. 16.
Wheels, Attachment for traction. W. J. Lewin. 1,785,452; Dec. 16.
Window and screen, Combination. C. M. Wittmann. 1,785,663; Dec. 16.
Window ventilator. W. B. Hamilton. 1,785,682; Dec. 16.
Wing structure for airplanes. W. C. Lambert. 1,785,318; Dec. 16.
Wiper, Windshield. H. Dolan. 1,785,113; Dec. 16.
Wood, Process and apparatus for disintegrating. G. H. Ellis. 1,785,544; Dec. 16.
Wood, Treating. A. P. Allen. 1,785,571; Dec. 16.
Worktable. J. Brogden. Re17,901; Dec. 16.
Wrapping machine for sweetmeats and the like. R. A. Harris. 1,784,835; Dec. 16.
Wrench: *See*—
Multiple wrench.

CLASSIFICATION OF PATENTS

ISSUED DECEMBER 16, 1930

NOTE.—First number=class, second number=subclass, third number=patent number

1—	6:	1,785,570	29—	148:	R. 17,907	58—	13:	1,785,551	84—	472:	1,785,440	104—	117:	1,785,340	137—	101:	1,785,547
	32:	1,784,923			1,784,966		14:	1,785,121	85—	1:	1,785,709	105—	44:	1,785,485		103:	1,785,149
2—	24:	1,785,213			1,785,420		53:	1,785,231		14:	1,784,843		105:	1,785,197		104:	1,784,953
	41:	1,785,162	30—	3:	1,785,384		56:	1,785,233	87—	5:	1,785,417		172:	1,785,626	139—	21.7:	1,785,225
	73:	1,785,066		9:	1,785,443		109:	1,785,267		9:	1,784,809		200:	1,785,056		212:	1,785,226
	78:	R. 17,903		12:	1,785,077	60—	26:	1,785,651		12:	1,784,941		234:	1,785,287		215:	1,785,218
		1,784,824			1,785,189	61—	29:	1,784,955		13:	1,785,361		369:	1,784,909			1,785,219
		1,785,286			1,785,190		42:	1,785,096		16:	1,785,054	106—	11:	1,785,309			1,785,220
	79:	1,785,581			1,785,446		69:	1,785,528			1,785,533		25:	1,784,840			1,785,221
	93:	1,785,029			1,785,545	62—	93:	1,785,576	88—	2.2:	1,785,284		26:	1,785,508			1,785,222
	178:	1,785,325			1,785,652		112:	1,785,078		2.7:	1,785,448		34:	1,785,053			1,785,223
	227:	1,785,580	31—	86:	1,785,313		119.5:	1,785,700		14:	1,785,392	107—	28:	1,785,394			1,785,224
	231:	1,785,396	32—	20:	1,785,624		157:	1,784,834			1,785,393	110—	101:	1,785,456		230:	1,785,227
	276:	1,784,942	33—	2:	1,784,888	63—	15:	1,785,217		16:	1,785,336		161:	1,785,046	140—	3:	1,785,188
4—	57:	1,784,944		15:	1,784,889	64—	30:	1,785,345		24:	1,785,330		171:	1,785,539	141—	7:	1,785,352
	73:	1,785,198		32:	1,785,496		100:	1,785,254			1,785,347	112—	79:	1,785,625	143—	6:	1,785,044
	148:	1,785,636		46.5:	1,784,929	66—	1:	R. 17,901		44:	1,784,916			1,785,650		8:	1,785,439
5—	262:	1,785,358		147:	1,785,383		36:	1,785,200		48:	1,785,038		119:	1,785,049		41:	1,785,373
	306:	1,785,075		154:	1,785,500		57:	1,785,603	90—	11:	1,784,972		252:	1,785,412		43.1:	1,785,065
	357:	1,785,252		207:	1,785,296		171:	1,785,637		58:	1,785,395	114—	16.6:	1,784,915	144—	286:	1,785,321
		1,785,258	34—	24:	1,785,484	68—	9:	1,785,619	91—	4:	1,784,992		203:	1,785,400	145—	122:	1,785,351
7—	1:	1,785,191		26:	1,785,418		10:	1,784,959		18:	1,785,370	115—	17:	1,785,089	146—	11:	1,785,328
9—	4:	1,784,819	35—	12:	1,784,952			1,785,280		59.4:	1,785,322	116—	67:	1,785,230		28:	1,784,998
10—	73:	1,785,281		15:	1,784,900		15:	1,785,577		67.8:	1,785,673		109:	1,785,329			1,784,999
11—	1:	1,785,261	36—	1:	1,785,623			1,785,579		68:	1,784,810	117—	20:	1,784,859			1,785,000
12—	2:	1,785,555		2:	1,785,033	70—	14:	1,785,381			1,785,037	118—	45:	1,785,560			1,785,001
	137:	1,785,153		17:	1,785,410		91:	1,785,335			1,785,082	119—	148:	1,784,890			1,785,002
	142:	1,784,940		18:	1,785,035		93:	1,785,634			1,785,083	120—	24:	1,785,229			1,785,003
14—	23:	1,785,023	37—	5:	1,785,423	72—	7:	1,785,156			1,785,084		25:	1,785,642			1,785,004
15—	16:	1,785,675		109:	1,785,353		30:	1,785,067			1,785,085		43:	1,785,478			1,785,005
	209:	1,785,653		128:	1,785,106		41:	1,785,499		68.2:	1,785,493		48:	1,785,680			1,785,006
	210:	1,785,512		159:	1,785,122		66:	1,785,050		69:	1,785,606		57:	1,784,852			1,785,007
	228:	1,785,536	40—	1:	1,785,414		71:	1,784,876		70:	1,785,081	121—	32:	1,785,177			1,785,008
	229:	1,785,216		2:	1,784,814		98:	1,785,174	92—	7:	1,784,849		33:	1,785,527			1,785,009
	255:	1,785,113		10:	1,785,186		105:	1,785,648			1,785,591		38:	1,785,349			1,785,010
16—	35:	1,785,421		19:	1,785,582		118:	1,785,061		20:	1,785,544		142:	1,785,184			1,785,011
	98:	1,784,910		28:	1,785,429		128:	1,785,214		21:	1,784,993		180:	1,785,455			1,785,012
	116:	1,785,111		33:	1,785,100	73—	21:	1,784,973			1,785,357	122—	25:	1,785,304			1,785,013
	128:	1,785,362		39:	1,785,474		32:	1,785,662		55:	1,785,101		32:	1,785,098			1,785,014
		1,785,506		76:	1,785,204		51:	1,785,690		71:	1,785,265		235:	1,785,350			1,785,015
8—	2:	1,785,671		96:	1,785,442	74—	7:	1,785,091	93—	7:	1,784,835		250:	1,785,058			1,785,016
	12:	1,785,457		107:	1,785,640		8:	1,785,622		87:	1,785,250		434:	1,785,275			1,785,017
	47.5:	1,785,102		125:	1,785,422		14:	1,784,823	94—	17:	1,785,028		460:	1,785,441			1,785,018
		1,785,391			1,785,602			1,784,842		23:	1,785,130	123—	25:	1,784,831			1,785,019
	50:	1,784,838		126:	1,784,937			1,784,902		30:	1,784,895		42:	1,785,176			1,785,020
		1,785,692		128:	1,785,449		21:	1,785,055	95—	5.6:	1,785,635		52:	1,785,108			1,785,021
	55:	1,785,701		130:	1,785,465			1,785,462		62:	1,785,142		54:	1,785,175			1,785,022
	56:	1,784,906		133:	1,785,341		34:	1,784,919		94:	1,785,631		90:	1,785,308		180:	1,785,244
19—	55:	1,785,109		140:	1,785,145			1,784,920	96—	2:	1,785,683			1,785,523	148—	1:	1,785,137
	145:	1,785,398		156:	1,784,970			1,785,338	97—	63:	1,785,531			1,785,596		8:	1,785,513
20—	1.13:	1,784,870	41—	21:	1,785,401			1,785,548		179:	1,785,676		119:	1,785,632		9:	1,785,071
	4:	1,785,507		34:	1,785,364			1,785,562	98—	66:	1,785,228		122:	1,785,556		11.5:	1,785,502
	35:	1,785,661		38.6:	1,785,260		40:	1,785,406		85:	1,785,540		148:	1,785,411		12:	1,784,865
	52.1:	1,785,663	43—	9:	1,785,236		58:	1,785,051		99:	1,785,682		173:	1,785,146			1,784,866
	68:	1,785,431		22:	1,785,027		71:	1,785,668		118:	1,785,263		178:	1,785,207		23:	1,785,115
		1,785,672		32:	1,784,965			1,785,669		121:	1,784,841		179:	1,785,319			1,785,131
	69:	1,785,476		40:	1,785,310		108:	1,784,837	99—	8:	1,785,461		180:	1,784,924			1,785,134
	91:	1,784,969		61:	1,784,904		109:	1,784,899		12:	1,785,571	126—	9:	1,785,143			1,785,135
22—	3:	1,785,164			1,785,664		116:	1,785,170	100—	48:	1,785,041		191:	1,785,568			1,785,147
	26:	1,784,995		102:	1,785,348	75—	1:	1,785,060	101—	57:	1,785,517		215:	1,785,182			1,785,155
	70:	1,785,607	45—	11:	1,785,450			1,785,372		129:	1,784,912		229:	1,785,677			1,785,173
	81:	1,785,292			1,785,616		14:	1,785,428			1,784,913		242:	1,785,481			1,785,180
23—	3:	1,785,365		26:	1,785,408		17:	1,785,139		149:	1,785,210		265:	1,785,385			1,785,181
		1,785,415	46—	40:	1,784,921			1,785,247		287:	1,785,526		338:	1,785,079	149—	2:	1,785,092
	106:	1,785,375			1,784,961		18:	1,785,245		350:	1,785,158		340:	1,785,514		5:	1,784,828
	109:	1,785,473			1,784,988		22.5:	1,785,199		421:	1,785,504	127—	58:	1,784,982	150—	9:	1,785,126
	142:	1,785,464		48:	1,784,946	76—	78:	1,785,613			1,785,505	128—	81:	1,785,185		46:	1,785,609
	145:	1,784,950	47—	8:	1,785,641		108:	1,784,932	102—	1:	1,785,529			1,785,376	152—	11.5:	1,785,110
	262:	1,785,080		38:	1,785,430	81—	3.1:	1,785,436		5:	1,785,344		218:	R. 17,906		20:	1,785,691
	283:	1,785,178	48—	73:	1,784,985		54:	1,785,125	103—	1:	1,784,918		244:	1,785,293		24:	1,785,390
24—	19:	1,785,550		85.1:	1,784,882		60:	1,785,103			1,785,480	129—	17:	1,785,684	153—	16:	1,785,537
	71:	1,785,059		180:	1,785,501		188:	1,785,419		6:	1,785,687	131—	12:	1,785,208		25:	1,785,116
	124:	1,785,117		208:	1,785,519	82—	1.1:	1,785,409		87:	1,785,557			1,785,595	154—	2:	1,785,667
	205:	1,785,234	49—	3:	1,785,497	83—	11:	1,785,435		89:	1,785,354		51:	1,785,305		9:	1,784,960
		1,785,240		5:	1,785,209		52:	1,784,983			1,785,460	132—	83:	1,785,303		10:	1,785,659
		1,785,715		47:	1,785,264		75:	1,785,151		123:	1,785,444		89:	1,784,986		14:	1,785,657
	206:	1,785,104		80:	1,785,535			1,785,490		125:	1,785,140	134—	11:	1,785,434		46:	1,785,674
	261:	1,785,511		81:	1,785,696			1,785,567		126:	1,785,386		17:	1,785,367		50:	1,785,379
	265:	1,784,887		81.5:	1,785,099		91:	1,785,532		162:	1,785,355		56:	1,784,949	155—	7:	1,784,962
25—	7:	1,785,312	51—	175:	1,785,695	84—	177:	1,785,486			1,785,356		76:	1,785,283		106:	1,785,317
	30:	1,785,298		278:	1,785,437		293:	1,785,266		202:	1,784,980	135—	34:	1,785,561		157:	1,785,337
		1,785,586	53—	1:	1,785,438		317:	1,785,311		232:	1,785,670	136—	81:	1,785,202		180:	1,785,359
	42:	1,784,847	55—	10:	1,784,947		322:	1,784,934		236:	1,785,094		146:	1,784,981	156—	14:	1,785,584
28—	21:	1,784,984			1,785,320		328:	1,785,206	104—	8:	1,784,963	137—	20:	1,785,689		42:	1,785,520
29—	1:	1,785,212		18:	1,785,588		345:	1,784,951		62:	1,785,363		21:	1,785,291	158—	7:	1,784,927
	84:	1,785,076		81:	1,785,144		409:	1,784,844		92:	1,785,031		69:	1,785,138		27.4:	1,784,964
	86.3:	1,785,040	56—	18:	1,785,647		460:	1,785,165		107:	1,785,315			1,785,271		36:	1,785,573

158— 77: 1,784,853
1,785,707
99: 1,785,605
117.5: 1,785,154
159— 50: 1,785,530
161— 15: 1,785,724
164— 90: R. 17,905
120: 1,785,215
166— 10: 1,785,123
12: 1,785,276
1,785,277
167— 14: 1,785,074
16: 1,785,472
43: 1,785,451
80: 1,784,928
169— 15: 1,785,723
170— 159: 1,785,543
169: 1,784,894
171— 97: 1,785,611
1,785,714
1,785,719
1,785,722
119: 1,785,569
206: 1,784,989
1,784,990
229: 1,785,566
252: 1,785,515
308: 1,784,922
324: 1,785,183
326: 1,785,483
327: 1,785,036
172— 120: 1,784,815
239: 1,785,597
173— 208: 1,784,881
318: 1,784,907
322: 1,785,628
328: 1,785,211
1,785,239
330: 1,785,463
335: 1,785,205
367: 1,785,518
175— 21: 1,784,811
1,784,827
1,785,246
41: 1,785,479
294: 1,785,612
1,785,710
1,785,711
1,785,712
1,785,713
1,785,718
1,785,720
1,785,721
344: 1,785,433
359: 1,784,833
177— 329: 1,785,694
337: 1,785,397
339: 1,784,884
1,785,366
350: 1,784,861
352: 1,785,307
178— 6: 1,785,262
7: 1,784,850
15: 1,785,610
44: 1,784,825
1,785,048
83: 1,785,072

179— 1: 1,784,891
18: 1,784,905
99: 1,785,087
100.3: 1,784,858
1,785,070
100.4: 1,784,839
1,785,047
100.41: 1,785,157
171: 1,784,857
1,784,879
1,784,957
175: 1,784,978
181— 0.5: 1,784,830
1,784,860
1,784,871
27: 1,785,193
1,785,377
1,785,553
183— 22: 1,785,453
39: 1,785,273
75: 1,785,387
85: 1,785,331
110: 1,785,346
115: 1,785,491
184— 13: 1,785,112
185— 40: 1,785,301
187— 29: 1,784,933
188— 20: 1,784,976
21: 1,785,432
75: 1,785,203
152: 1,785,052
1,785,057
194: 1,785,172
204: 1,785,179
207: 1,784,917
213: 1,784,896
218: 1,785,424
259: 1,784,994
189— 7: 1,785,469
1,785,470
1,785,471
41: 1,785,025
43: 1,785,487
54: 1,784,948
75: 1,784,938
196— 34: 1,785,242
40: 1,785,270
49: 1,784,956
51: 1,785,274
99: 1,785,042
142: 1,785,073
197— 127: 1,785,445
143: 1,784,873
198— 7: 1,785,594
15: 1,785,282
31: 1,785,534
109: 1,785,402
119: 1,785,249
126: 1,785,593
203: 1,785,141
213: 1,785,604
233: 1,784,872
200— 1: 1,784,898
8: 1,785,575
34: 1,784,930
50: 1,785,290
53: 1,785,268

200— 58: 1,785,614
67: 1,785,068
1,785,192
80: 1,785,705
140: 1,785,699
162: 1,785,194
164: 1,784,883
166: 1,785,618
172: 1,784,820
202— 43: 1,785,447
109: 1,785,565
121: 1,785,645
204— 1: 1,785,389
5: 1,784,987
206— 38: 1,785,187
1,785,294
208— 42: 1,784,875
157: 1,785,467
209— 18: 1,785,679
279: 1,785,161
312: 1,785,195
464: 1,785,302
210— 24: 1,784,893
56: 1,784,943
63: 1,785,578
188: 1,785,494
201: 1,785,237
206: 1,785,024
214— 8.5: 1,785,374
16.1: 1,785,034
35: 1,785,585
38: 1,785,169
95: 1,785,371
138: 1,785,492
140: 1,785,119
215— 38: 1,785,716
100: 1,784,880
217— 30: 1,785,416
52: 1,785,665
76: 1,785,133
219— 34: 1,785,413
220— 1: 1,785,388
22: 1,784,826
24: 1,784,878
1,785,326
86: 1,784,897
221— 61: 1,784,979
74: 1,785,097
129: 1,785,132
225— 21: 1,785,316
35: 1,784,977
226— 92: 1,785,235
229— 1.5: 1,785,599
51: 1,785,639
76: 1,785,498
230— 185: 1,785,407
232— 21: 1,785,404
234— 8: 1,785,241
34: 1,785,525
235— 7: 1,785,378
60: 1,784,862
114: 1,785,288
236— 9: 1,785,425
1,785,426
15: 1,785,160
237— 79: 1,785,253
238— 59: 1,785,324

238— 92: 1,784,901
283: 1,785,251
304: 1,784,846
240— 19: 1,785,333
57: 1,785,516
62: 1,785,332
85: 1,784,885
128: 1,785,538
242— 54: 1,785,248
84.5: 1,785,279
1,785,488
243— 6: 1,784,968
16: 1,784,967
244— 2: 1,784,954
12: 1,785,128
14: 1,784,939
1,785,300
16: 1,785,295
18: 1,785,458
21: 1,784,996
25: 1,785,633
29: 1,785,114
1,785,306
1,785,620
31: 1,785,318
1,785,477
1,785,615
246— 3: 1,785,708
34: 1,784,851
45: 1,785,704
62: 1,785,269
1,785,706
63: 1,784,816
1,785,693
1,785,703
125: 1,785,093
130: 1,784,868
143: 1,785,698
318: 1,785,630
443: 1,785,454
247— 25: 1,785,136
1,785,524
31: 1,785,558
33: 1,785,403
248— 37: 1,785,509
65: 1,785,232
250— 9: 1,784,867
11: 1,785,062
14: 1,785,552
1,785,627
20: 1,784,874
1,785,297
27.5: 1,784,869
1,784,877
251— 35: 1,785,475
76: 1,785,289
1,785,658
104: 1,784,892
127: 1,785,278
144: 1,785,259
254— 10: 1,785,368
1,785,369
31: 1,784,829
45: 1,785,167
1,785,168
98: 1,784,991
1,785,069

254— 102: 1,785,554
190: 1,785,090
192: 1,784,925
255— 23: 1,785,256
19: 1,785,163
1,785,238
1,785,257
27: 1,785,086
28: 1,785,559
72: 1,784,886
1,785,120
1,785,405
257— 139: 1,785,621
167: 1,785,649
224: 1,785,334
229: 1,785,159
259— 102: 1,785,563
260— 15: 1,785,660
43: 1,784,903
44: 1,785,656
60: 1,785,360
61: 1,785,600
1,785,601
97: 1,785,327
101: 1,785,466
106: 1,785,166
145: 1,784,945
146: 1,785,030
168: R. 17,902
261— 30: 1,784,907
41: 1,785,026
1,785,681
1,784,864
90: 1,785,592
113: 1,785,572
121: 1,785,045
262— 8: 1,785,196
30: 1,785,574
28: 1,785,201
263— 6: 1,784,812
10: 1,785,427
15: 1,785,549
43: 1,785,583
264— 16: 1,785,285
265— 16: 1,785,521
25: 1,785,243
48: 1,785,542
69: 1,785,541
266— 1.5: 1,785,587
40: 1,785,503
267— 48: 1,785,489
54: 1,785,654
1,785,655
1,785,685
1,785,686
72: 1,785,323
8: 1,785,339
1,785,510
270— 32: 1,785,546
271— 64: 1,784,854
1,784,855
273— 33: 1,785,088
35: 1,785,150
36: 1,784,863
56: 1,784,818
89: 1,785,148
100.5: 1,785,589

274— 38: 1,784,845
279— 76: 1,784,911
97: 1,785,495
114: 1,784,908
280— 29: 1,785,646
33.4: 1,785,124
33.15: 1,785,697
49: 1,785,064
80: 1,785,717
104: 1,785,118
152: 1,785,482
164: 1,784,971
284— 17: 1,784,822
285— 19: 1,785,095
77: 1,785,314
84: 1,785,638
94: 1,784,926
126: 1,784,817
150: 1,784,821
182: 1,785,129
286— 18: 1,785,272
287— 77: 1,785,522
98: 1,785,342
99: 1,785,343
290— 4: 1,785,643
291— 23: 1,784,832
292— 7: 1,785,468
74: 1,784,936
114: 1,784,931
227: 1,784,935
228: 1,785,380
293— 44: 1,785,598
294— 57: 1,785,608
96: 1,785,590
102: 1,785,152
1,785,299
1,785,644
296— 1: 1,784,975
298— 18: 1,785,678
301— 44: 1,784,958
50: 1,785,452
81: 1,785,171
123: 1,785,127
124: 1,784,856
302— 2: 1,784,813
304— 2: 1,785,399
306— 4: 1,785,043
22: 1,785,564
26: 1,784,974
308— 2: 1,785,382
1,785,702
5: 1,785,688
20: 1,784,848
21: R. 17,904
41: 1,785,032
68: 1,785,629
174: 1,785,617
179: 1,785,459
208: 1,785,255
212: 1,785,063
214: 1,784,914
311— 51: 1,785,039
312— 61: 1,784,836
73: 1,785,107
114: 1,785,105
148: 1,785,666

U. S. GOVERNMENT PRINTING OFFICE: 1930

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS

Alabastine Company, Grand Rapids, Mich. Dry base in the nature of a kalsomine. 278,534; Dec. 23, Serial No. 302,878; published Oct. 7, 1930. Class 16.

Alsop, Samuel, doing business as Alsop Engineer Company, New York, N. Y. Electrically-driven agitators, parts thereof, and electric motors therefor. 278,683; Dec. 23. Class 21.

American Hecolite Denture Corporation, Portland, Oreg. Artificial-denture press. 278,518; Dec. 23; Serial No. 295,883; published Apr. 1, 1930.

American Hecolite Denture Corporation, Portland, Oreg. Dental plastic materials, artificial dentures, etc. 278,550; Dec. 23; Serial No. 289,954; published Mar. 4, 1930. Class 44.

American Molasses Co. of New York, The, New York, N. Y. Molasses. 278,589; Dec. 23; Serial No. 299,667; published Oct. 7, 1930. Class 46.

American Tourists Association. (See Engel, Louis.)

Atlantic Refining Company, The. (See Red "C" Oil M'f'g Co. of Baltimore City, The, assignor.)

Avondale Mills, Birmingham, Ala. Cotton blankets. 278,642; Dec. 23; Serial No. 304,229; published Oct. 7, 1930. Class 42.

Badger Toy Company. (See Bergmann, Carl.)

Bamberger, L., & Co., Newark, N. J. Bonbons, chocolates, and candies. 278,511; Dec. 23; Serial No. 297,291; published Oct. 7, 1930. Class 46.

Banker, Sadie, doing business as Everett Malt Products Co., Everett, Mass. Malt extract. 278,649; Dec. 23; Serial No. 301,558; published Oct. 7, 1930. Class 46.

Basso, M. P., & Co., Inc., New York, N. Y. Bond paper. 278,637; Dec. 23; Serial No. 303,798; published Oct. 7, 1930. Class 37.

Baum Kravat & Baum, New York, N. Y. Coats, suits, and dresses. 278,505; Dec. 23; Serial No. 304,307; published Oct. 7, 1930. Class 39.

Bayes, E. W., Parsons, Kans. Canned chicken broth, chicken roast, chicken loaf, etc. 278,655; Dec. 23; Serial No. 303,090; published Oct. 7, 1930. Class 46.

Bergmann, Carl, doing business as Badger Toy Company, Milwaukee, Wis. Aeroplane toys, glider and vehicular toys. 278,553; Dec. 23; Serial No. 304,397; published Oct. 7, 1930. Class 22.

Berkshire Knitting Mills, Wyomissing, Pa. Hosiery. 278,504; Dec. 23; Serial No. 304,308; published Oct. 7, 1930. Class 39.

Berkshire Knitting Mills, Wyomissing, Pa. Hosiery. 278,663–4; Dec. 23; Serial Nos. 303,830–1; published Sept. 30, 1930. Class 39.

Biltmore Farm. (See Ronnerman, William L.)

Bimbo Confectionery Company, New Haven, Conn. Frozen confectionery. 278,654; Dec. 23; Serial No. 302,721; published Oct. 7, 1930. Class 46.

Bishop, Robert, trustee of the Estate of Robert Bishop, doing business as The Robert Bishop Mfg. Co., Boston, Mass. Cotton lamp wicking. 81,321; renewed Mar. 28, 1931.

Blodgett & Orswell, Pawtucket, R. I., assignor to W. Warren Thread Works, Westfield, Mass. Spool cotton. 81,669; renewed May 2, 1931.

Blum's Almanac Syndicate, Winston-Salem, N. C. Periodical. 278,569; Dec. 23; Serial No. 304,716; published Oct. 7, 1930. Class 38.

Bodensiek, Jennie M. (See Mood, assignor.)

Burke Grocery Company, The, Cincinnati, Ohio. Coffee, canned fruits, canned lima beams, etc. 278,653; Dec. 23; Serial No. 302,623; published Sept. 30, 1930. Class 46.

Burson Knitting Company, Rockford, Ill. Hosiery. 278,657; Dec. 23; Serial No. 304,035; published Oct. 7, 1930. Class 39.

Byron, Sash & Door Company, Louisville, Ky. Doors, sash, trim, etc. 278,580; Dec. 23; Serial No. 300,854; published Oct. 7, 1930. Class 12.

Caldwell-Spence Company, Gadsden, Ala. Vienna sausage, tripe with milk, chile con carne, etc. 278,543; Dec. 23; Serial No. 286,222; published Oct. 7, 1930. Class 46.

Cambridge Glass Co., The, Cambridge, Ohio. Glassware. 278,643; Dec. 23; Serial No. 304,235; published Oct. 7, 1930. Class 33.

Canfield, A. J., Co., Chicago, Ill. Maltless beverages. 278,540; Dec. 23; Serial No. 304,993; published Oct. 7, 1930. Class 45.

Cannatella, Frank, New Orleans, La. Confection. 278,635; Dec. 23; Serial No. 303,761; published Oct. 7, 1930. Class 46.

Carson Pirie Scott & Co., Chicago, Ill. Cloaks, suits, dresses, etc. 278,614; Dec. 23; Serial No. 304,082; published Sept. 30, 1930. Class 39.

Chappel Bros., Inc., Rockford, Ill. Prepared food for dogs, cats, and other carnivorous animals. 278,526; Dec. 23; Serial No. 304,188; published Sept. 30, 1930. Class 46.

Chattanooga Bakery. (See Mountain City Mill Co.)

Chemical Foundation, Incorporated, The. (See Chemische Fabrik Rhenania, assignor.)

Chemical Foundation, Incorporated, The. (See Farbwerke vorm. Meister Lucius & Brüning, assignor.)

Chemical Foundation, Incorporated, The. (See Henning, Karl, assignor.)

Chemical Foundation, Incorporated, The. (See Lilienfeld, Dr., & Co., assignor.)

Chemical Foundation, Incorporated, The. (See Mahla, C. & E.)

Chemical Foundation, Incorporated, The. (See Merck, E., assignor.)

Chemical Foundation, Incorporated, The. (See Norddeutsche Wollkämmerei & Kammgarnspinnerei, assignor.)

Chemical Foundation, Incorporated, The. (See Vereinigte Chininfabriken Zimmer & Co. Ges. Mit Beschränkter Haftung, assignor.)

Chemische Fabrik Rhenania, Aachen, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Manures, fertilizers, etc. 35,930; renewed Feb. 19, 1931.

Chicago Retail Druggists' Association, Chicago, Ill. Publication. 278,570; Dec. 23; Serial No. 304,649; published Oct. 7, 1930. Class 38.

Chock-Horowitz Co., New York, N. Y. Night robes and pajamas. 278,606; Dec. 23; Serial No. 303,563; published Oct. 7, 1930. Class 39.

Cincinnati Sheet Metal & Roofing Company, Cincinnati, Ohio. Sheet metal. 81,591; renewed Apr. 25, 1931.

Cloverdale Company, The, Boston, to The Cloverdale Company, Cambridge, Mass. Tea and Coffee. 81,253; renewed Mar. 21, 1931.

Club & Campus Publishing Co., Chicago, Ill. Clothing and furnishing goods. 287,517; Dec. 23; Serial No. 296,632; published Oct. 7, 1930. Class 39.

Colley, Reuben N., doing business as Dee Fross Hot Air Windshield Wiper Co., Barrington, R. I. Windshield wipers. 278,559; Dec. 23; Serial No. 304,272; published Oct. 7, 1930. Class 19.

Colorado Milling & Elevator Co., The, doing business as Hungarian Flour Mills, Denver, Colo. Wheat flour. 278,521; Dec. 23; Serial No. 295,888; published Apr. 22, 1930. Class 46.

Cook, Charles A., doing business as Merchandise & Research Bureau, New York, N. Y. Hosiery and underwear. 278,622; Dec. 23; Serial No. 301,585; published Sept. 26, 1930. Class 39.

Cooperative Merchandising Bureau. (See Kirby, Block & Fischer, Inc.)

Corn Products Refining Company. (See Glucose Sugar Refining Co., The, assignor.)

Culbertson, W. W., & Son, Kansas City, Kans. Polishes. 278,574; Dec. 23; Serial No. 298,921; published Oct. 7, 1930. Class 16.

Cutler-Hammer, Inc., Milwaukee, Wis. Unitary control system for direct-current motors. 278,665; Dec. 23; Serial No. 300,262; published July 8, 1930. Class 21.

Daner Co. (See Danerhirsch, Joseph.)

Danerhirsch, Joseph, doing business as Daner Co., New York, N. Y. Men's furnishings. 278,689; Dec. 23. Class 39.

Danglade, L., et Fils, Libourne, France. Vinous sauces and condiments. 278,648; Dec. 23; Serial No. 301,383; published Oct. 7, 1930. Class 46.

Davis Welding & Manufacturing Company, The, Cincinnati, Ohio. Fill tubes for gasoline tanks. 278,557; Dec. 23; Serial No. 304,451; published Oct. 7, 1930. Class 13.

Dee Fross Hot Air Windshield Wiper Co. (See Colley, Reuben N.)

De Santos Fruit Packing Co., Manila, P. I. Canned and bottled food products. 278,549; Dec. 23; Serial No. 290,503; published Sept. 30, 1930. Class 46.

Dexdale Hosiery Mills, Lansdale, Pa. Silk hosiery. 278,588; Dec. 23; Serial No. 299,769; published Sept. 23, 1930. Class 39.

Diary Publishing Corporation, The, New York, N. Y. Combination coin purses, wallets, key cases, etc. 278,539; Dec. 23; Serial No. 305,038; published Oct. 7, 1930. Class 3.

Diary Publishing Corporation, The, New York, N. Y. Overalls. 278,627; Dec. 23; Serial No. 302,936; published Sept. 30, 1930. Class 39.

Dolph, John C., Co., Long Island City, N. Y., to John C. Dolph Company, Newark, N. J. Insulating varnishes and compounds. 81,510; renewed Apr. 18, 1931.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Pyroxylin coated or impregnated fabrics made into troughs and tubes. 278,864; Dec. 23. Class 34.

Earl Paint Corporation, Utica, N. Y. Liquid bond for foundry cores. 278,532; Dec. 23; Serial No. 303,530; published Sept. 30, 1930. Class 5.

Eavey Co., The, Xenia, Ohio. Jelly powders, cider vinegar, tea, etc. 278,597; Dec. 23; Serial No. 228,745; Nov. 29, 1927. Class 46.

Ellis, John, & Brother, Philadelphia, Pa. Confections, peanut butter, pepper, etc. 278,595; Dec. 23; Serial No. 286,556; published Oct. 7, 1930. Class 46.

Engel, Louis, doing business as American Tourists Association, Washington, D. C. Auto maps and road guides. 278,544; Dec. 23; Serial No. 285,447; published Oct. 7, 1930. Class 38.
Enro Shirt Company, The, Louisville, Ky. Collars, shirts, and underwear. 278,548; Dec. 23; Serial No. 291,502; published Jan. 7, 1930. Class 39.
Ernstberger, H., & Co., New York, N. Y. Fabrics. 278,546; Dec. 23; Serial No. 292,444; published Aug. 12, 1930. Class 42.
Everett Malt Products Co. (See Banker, Sadie.)
Excelsior Mills, Union, S. C. Hosiery. 278,613; Dec. 23; Serial No. 304,096; published Oct. 7, 1930. Class 39.
Facts Publishing Company, The, New York, N. Y. Title for publication. 278,646; Dec. 23; Serial No. 304,370; published Oct. 7, 1930. Class 38.
Falls City Mills Co., The, Louisville, Ky. Hosiery. 278,600; Dec. 23; Serial No. 270,631; published Oct. 30, 1928. Class 39.
Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Remedy for the nerves of the brain. 81,062; renewed Feb. 28, 1931.
Fecker Company, Danville, Ill. Malt syrup. 278,616; Dec. 23; Serial No. 303,805; published Oct. 7, 1930. Class 46.
Fellman, Edward J., doing business as Phenix Manufacturing Co., Milwaukee, Wis. Stilts. 278,567; Dec. 23; Serial No. 305,001; published Oct. 7, 1930. Class 22.
Ficcio, Maria, Tampa, Fla. Suits, pants, trousers, and knickers. 278,659; Dec. 23; Serial No. 304,002; published Oct. 7, 1930. Class 39.
Field, French & Company, Inc., Chicago, Ill. Sign cloth. 278,610; Dec. 23; Serial No. 293,524; published Oct. 7, 1930. Class 42.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 278,571; Dec. 23; Serial No. 304,548; published Oct. 7, 1930. Class 42.
Fort Howard Paper Company, Green Bay, Wis. Paper towels and napkins, toilet paper, and colored crepe paper. 278,639; Dec. 23; Serial No. 303,960; published Oct. 7, 1930. Class 37.
Fox West Coast Theatres, doing business as The Screen Mirror Publishing Company, Los Angeles, Calif. Magazine. 278,644; Dec. 23; Serial No. 304,280; published Oct. 7, 1930. Class 38.
Foxcliff Poultry Farm. (See Shields, Frank B.)
Franklin Leather Goods Co., Inc., Newark, N. J. Hand luggage. 278,524; Dec. 23; Serial No. 304,549; published Oct. 7, 1930. Class 3.
Fred, Walter, Hosiery Mills, Inc., Nashville, Tenn. Hosiery. 278,615; Dec .23; Serial No. 304,078; published Oct. 7, 1930. Class 39.
Fred, Walter, Hosiery Mills, Inc., Nashville, Tenn. Hosiery. 278,677; Dec. 23. Class 39.
Galt, Hugh B. G., Norfolk, Va. Supports for golf bags. 278,645; Dec. 23; Serial No. 304,321; published Oct. 7, 1930. Class 22.
Gimbel Brothers, Inc., New York, N. Y. Perfumes, face and bath powder, powder and rouge compacts, etc. 278,682; Dec. 23. Class 6.
Gittelman, Samuel, Washington, D. C. Women's coats, suits, and dresses. 278,606; Dec. 23. Class 39.
Glucose Sugar Refining Co., The, Jersey City, N. J., and Chicago, Ill., assignor to Corn Products Refining Company, New York, N. Y. Sugar and syrup. 36,098; renewed Mar. 19, 1931.
Goshen Shirt Mfg. Company, Manistee, Mich., and Chicago, Ill. Shirts and pajamas. 278,626; Dec. 23; Serial No. 302,894; published Sept. 30, 1930. Class 39.
Graham Mill & Elevator Co., Graham, Tex. Cow and poultry feed and white wheat flour. 278,584; Dec. 23; Serial No. 300,513; published Sept. 30, 1930. Class 46.
Gre-Poir, Inc., New York, N. Y. Stuffed dolls and animals and stuffed toys. 278,609; Dec. 23; Serial No. 301,342; published Oct. 7, 1930. Class 22.
Halperin, Morris I., Brooklyn, N. Y. Collars. 278,624; Dec. 23; Serial No. 302,633; published Oct. 7, 1930. Class 39.
Harris, B. W., Manufacturing Company, St. Paul, Minn. Clothing. 278,514; Dec. 23; Serial No. 297,078; published Sept. 30, 1930. Class 39.
Heinemann Dry Goods Company, Jonesboro, Ark. Overalls and work shirts. 278,563; Dec. 23; Serial No. 304,444; published Sept. 23, 1930. Class 39.
Henning, Karl, Klosterneuburg, Austria-Hungary, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Molding material for dental purposes. 80,780–1; renewed Jan. 31, 1931.
Holbrook, Merrill & Stetson, Inc., Ltd., Wilmington, Del., and Los Angeles, Calif. Refrigerators and refrigerating machinery. 278,586; Dec. 23; Serial No. 305,223; published Oct. 7, 1930. Class 31.
Hoyt Brothers, Inc., Newark, N. J. Varnish, paints, etc. 278,573; Dec. 23; Serial No. 298,944; published Oct. 7, 1930. Class 16.
Hungarian Flour Mills. (See Colorado Milling & Elevator Co., The.)
International Shoe Co. (See Jordan, Marsh & Co.)
International Shoe Co., St. Louis, Mo. Cotton piece goods. 278,568; Dec. 23; Serial No. 304,916; published Oct. 7, 1930. Class 42.
Iowa Master Breeders, Inc., Onawa, Iowa. Hatchery chicks. 278,669; Dec. 23. Class 46.
Isman & Bernstein, Inc., New York, N. Y. Coats and suits. 278,675; Dec. 23. Class 39.
Italian Vineyard Co., Los Angeles, Calif. Recipe pamphlet. 278,608; Dec. 23; Serial No. 301,938; published Oct. 7, 1930. Class 38.
Jell-Well Dessert Company, Los Angeles, Calif. Food products. 278,647; Dec. 23; Serial No. 301,038; published Oct. 7, 1930. Class 46.
Jordan, Marsh & Co., Boston, Mass. to International Shoe Co., St. Louis, Mo., successor. Boots and shoes. 35,128; renewed Sept. 25, 1930.
Joyner, V. W., assignor, by mesne assignments, to V. W. Joyner and Company, Incorporated, Smithfield, Va. Ham. 81,808; renewed May 9, 1931.
Kaufman, Max, & Sons, New York, N. Y. Hose supporters, suspenders, and arm bands. 278,583; Dec. 23; Serial No. 300,526; published Sept. 23, 1930. Class 39.
Kingan & Co., Incorporated, Indianapolis, Ind. Canned cooked poultry. 278,513; Dec. 23; Serial No. 297,083; published June 17, 1930. Class 46.
Kirby, Block & Fischer, Inc., doing business as Cooperative Merchandising Bureau, New York, N. Y. Clothing. 278,623; Dec. 23; Serial No. 301,947; published Sept. 30, 1930. Class 39.
Knott-Van Arnam Manufacturing Co., by change of name to Van Arnam Manufacturing Co., Fort Wayne, Ind. Flushing tanks and hinged seats for water-closets. 81,082; renewed Feb. 28, 1931.
Knox Hat Company, Inc., New York, N. Y. Leather hatboxes, suitcases, hand bags. 278,598; Dec. 23; Serial No. 279,658; published Sept. 30, 1930. Class 3.
Kopple, Harry N., doing business as H. N. Kopple Company, Philadelphia, Pa. Baseball game. 278,686; Dec. 23. Class 22.
Kraft, J. L., & Bros. Company, assignor, by mesne assignments, to Kraft-Phenix Cheese Corporation, Chicago, Ill. Pimento cheese and potted cheese. 81,222; renewed Mar. 14, 1931.
Kress, S. H., & Co., New York, N. Y. Composition books, notebooks, and loose-leaf binders. 278,587; Dec. 23; Serial No. 300,135; published Oct. 7, 1930. Class 37.
Kroydon Company, The, Maplewood, N. J. Golf clubs. 278,565; Dec. 23; Serial No. 305,135; published Oct. 7, 1930. Class 22.
Laboratorios Saiz De Carlos, S. L. (See Saiz y Carlos, Ramón.)
Lake Charles Rice Milling Company of Louisiana, Inc., Lake Charles, La. Rice. 278,538; Dec. 23; Serial No. 305,046; published Oct. 7, 1930. Class 46.
Lakewood Shirt Corporation, New York, N. Y. Collars. 278,688; Dec. 23. Class 39.
Lambotte, E. H., Denver, Colo. Board game. 278,640; Dec. 23; Serial No. 303,968; published Oct. 7, 1930. Class 22.
La Salle Hosiery Company, Inc., Philadelphia, Pa. Hosiery. 278,607; Dec. 23; Serial No. 303,508; published Sept. 30, 1930. Class 39.
Lavino, E. J., and Company, Philadelphia, Pa. Refractory cement. 278,620, Dec. 23; Serial No. 304,564; published Oct. 7, 1930. Class 12.
Le Rae Hat Co., St. Louis, Mo. Hats. 278,507; Dec. 23; Serial No. 295,377; published Sept. 23, 1930. Class 39.
Levere, J. Leonard, doing business as Levere Company, New York, N. Y. Precious, synthetic, and imitation stones. 278,668; Dec. 23. Class 28.
Lieberthal, Robert H., New York, N. Y. Combination package of toothbrush, toothpaste, and floss. 278,674; Dec. 23. Class 50.
Lilienfeld, Dr., & Co., Vienna, Austria-Hungary, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Photographic paper and plates. 35,771; renewed Jan. 15, 1931.
Lilienfeld, Dr., & Co., Vienna, Austria-Hungary, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Certain named pharmaceutical products. 35,772; renewed Jan 15, 1931.
Linehan, Frank L., doing business as F. L. Linehan Co., Minneapolis, Minn. Malt syrup. 278,690; Dec. 23. Class 46.
Lockwood Greene Engineers Inc., Boston, Mass. Magazine and house organ. 278,641; Dec. 23; Serial No. 304,151; published Oct. 7, 1930. Class 38.
Loening, Grover, Company, Inc., New York, N. Y. Airplanes, seaplanes, etc., and structural parts thereof. 278,561; Dec. 23; Serial No. 303,809; published Oct. 7, 1930. Class 19.
Luxite Silk Products Co., Milwaukee, Wis. Glove-silk underwear. 278,631; Dec. 23; Serial No. 303,333; published Sept. 30, 1930. Class 39.
Lyric Dress Co., New York, N. Y. Ladies' dresses. 278,679; Dec. 23. Class 39.
Magnin, I., & Co., San Francisco, Calif. Gowns, dresses, skirts, etc. 278,625; Dec. 23; Serial No. 302,828; published Sept. 30, 1930. Class 39.

Mahla, C. & E., Nuremberg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York N. Y. Coverings for floors, ceilings, etc. 35,997; renewed March 5, 1931.
Maney Milling Company, Omaha, Nebr. Plain and self-rising flour. 278,527; Dec. 23; Serial No. 304,154; published Oct. 7, 1930. Class 46.
Manko, Louis H., doing business as L. H. Manko & Company and National Summer Clothing Company, Philadelphia, Pa. Suits, coats, vests, and trousers. 278,545; Dec. 23; Serial No. 285,033; published Sept. 23, 1930. Class 39.
Mano, William, Long Island City, N. Y. Pipe-joint compounds. 278,621; Dec. 23; Serial No. 304,690; published Oct. 7, 1930. Class 12.
May Department Stores Company, The, St. Louis, Mo. Flannelette diapers. 278,636; Dec. 23; Serial No. 303,539; published Oct. 7, 1930. Class 42.
Merchandise & Research Bureau. (See Cook, Charles A.)
Merck, E., Darmstadt, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York N. Y. Certain chemicals. 80,861; renewed Feb. 7, 1931.
Mexican Wholesale Grocery Co., Los Angeles, Calif. Canned fruits, vegetables, fish, etc. 278,[illegible]; Dec. 23; Serial No. 301,981; published Sept. 30, 1930. Class 46.
Miller Becker Co., Cleveland, Ohio. Maltless beverages. 278,508; Dec. 23; Serial No. 294,166; published Oct. 7, 1930. Class 45.
Mood, assignor, by mesne assignments, to Jennie M. Bodensiek, doing business as Mood, New York, N. Y. Corsets and ladies' outer clothing. 78,625; renewed June 28, 1930.
Mountain City Mill Co., Inc., doing business as Chattanooga Bakery, Chattanooga, Tenn. Pies. 278,592; Dec. 23; Serial No. 298,455; published Sept. 30, 1930. Class 46.
National Bellas Hess Co. Inc., New York, N. Y. Shirts, suits, undershirts, etc. 278,599; Dec. 23; Serial No. 274,885; published Oct. 7, 1930. Class 39.
National Bellas Hess Co. Inc., New York, N. Y. Slippers. 278,601; Dec. 23; Serial No. 268,241; published Oct. 7, 1930. Class 39.
National Pepsi-Cola Corporation, Richmond, Va. Maltless beverages and ginger ale. 278,672; Dec. 23. Class 45.
National Summer Clothing Company. (See Manko, Louis H.)
Nawrath, John P., to J. P. Nawrath & Co., Inc., New York, N. Y., successor. Cotton mops. 81,476; renewed Apr. 11, 1931.
Nebel, Oscar, Co., Inc., Hatboro, Pa. Hosiery. 278,605; Dec. 23; Serial No. 303,651; published Oct. 7, 1930. Class 39.
Nelson-Columbia, Hugh, Carpet Mills, Inc., Philadelphia, Pa. Textile rugs and carpets. 278,687; Dec. 23. Class 42.
Neustadter Brothers, San Francisco, Calif. Hosiery. 278,506; Dec. 23; Serial No. 304,210; published Oct. 7, 1930. Class 39.
Neuweiler's, Louis F., Sons, Allentown, Pa. Malt beverage. 278,537; Dec. 23; Serial No. 305,119; published Oct. 7, 1930. Class 48.
New Era Aluminum Co., The, Cleveland, Ohio. Automatic air valves. 278,555; Dec. 23; Serial No. 304,694; published Oct. 7, 1930. Class 13.
Nier, Hermann, Beierfeld, Germany. Hurricane lamps, oil containers, etc. 278,522; Dec. 23; Serial No. 295,437; published Oct. 7, 1930. Class 34.
Nobility Dress Co., Inc., New York, N. Y. Coats, suits, and dresses. 278,673; Dec. 23. Class 39.
Norddeutsche Wollkämmerei & Kammgarnspinnerei, Bremen and Delmenhorst, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Wool fat and wool-fat preparations. 35,928; renewed Feb. 19, 1931.
Norddeutsche Wollkämmerei & Kammgarnspinnerei, Bremen and Delmenhorst, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Medicinal, toilet, and antiseptic preparations. 36,050; renewed Mar. 12, 1931.
Northwest Hosiery Company, Seattle, Wash. Hosiery. 278,656; Dec. 23; Serial No. 304,061; published Oct. 7, 1930. Class 39.
Novato French Cheese Factory. (See Rudolff, W. H.)
Nuzum, William, doing business as Tie-D-Tie Co., New York, N. Y. Neckwear. 278,630; Dec. 23; Serial No. 303,296; published Sept. 30, 1930. Class 39.
Olympia Knitting Mills, Inc., Olympia, Wash. Swimming suits and sweaters. 278,661–2; Dec. 23; Serial Nos. 303,854–5; published Sept. 30, 1930. Class 39.
Outlet Company, The, Providence, R. I. Men's clothing. 278,552; Dec. 23, 1930. Serial No. 288,866; published Nov. 5, 1929. Class 39.
Palmer, A. N., Company, The, New York, N. Y. Writing tablets, loose-leaf practice paper, notebook filler paper, and composition books. 278,572; Dec. 23; Serial No. 304,424; published Oct. 7, 1930. Class 37.
Payson Varnish Co., The, New York, N. Y. Paints, varnishes, lacquers, etc. 278,562–30; published Oct. 7, 1930. Class 16.
Pekin Fireworks Company, Astoria, Oreg. Firecrackers. 278,533; Dec. 23; Serial No. 303,451; published Oct. 7, 1930. Class 9.
Peninsular Chemical Co., by change of name to The Peninsular Company, Detroit, Mich. Certain medicinal remedies. 81,544; renewed Apr. 18, 1931.
Pennington Poultry Farm. (See Wright, A. E.)
Pen-O-Pencil Company, New York, N. Y. Pens, pencils, and combination pens and pencils. 278,602; Dec. 23; Serial No. 267,991; published Mar. 25, 1930. Class 37.
Phenix Manufacturing Co. (See Fellman, Edward J.)
Posner, Thomas, & Bro., New York, N. Y. Frocks, gowns, and dresses. 278,629; Dec. 23; Serial No. 303,255; published Sept. 30, 1930. Class 39.
Prince & Company, Sterling, Ill. Ice cream and formed bodies of ice cream. 278,652; Dec. 23; Serial No. 302,408; published Oct. 7, 1930. Class 46.
Pritchard, E., Inc., Bridgeton, N. J. Catsup, chili sauce, tomato juice, etc. 278,617; Dec. 23; Serial No. 303,861; published Oct. 7, 1930. Class 46.
Providence Malt Company, Providence, R. I. Malt syrup. 278,634; Dec. 23. Serial No. 303,580; published Oct. 7, 1930. Class 46.
Pyke Mfg. Co., Salt Lake City, Utah. Work shirts, overalls, pants, etc. 278,604; Dec. 23; Serial No. 303,699; published Sept. 30, 1930. Class 39.
Rag Content Paper Manufacturers, Springfield, Mass. Paper. 278,516; Dec. 23; Serial No. 296,922; published Oct. 7, 1930. Class 37.
Ray-Glo Corporation, The, Athens, Ohio. Radiant gas heater. 278,547; Dec. 23; Serial No. 291,739; published Jan. 7, 1930. Class 34.
Red "C" Oil M'f'g Co., The, of Baltimore City, Baltimore, Md., assignor, by mesne assignments to The Atlantic Refining Company, Philadelphia, Pa. Axle grease and lubricating grease. 80,152; renewed Nov. 8, 1930.
Red Raven Corporation, The, Red Raven, Pa. Maltless beverages. 278,530; Dec. 23; Serial No. 303,727; published Oct. 7, 1930. Class 45.
Rejos Company, Hopkins, Minn. Cake mixture. 278,529; Dec. 23; Serial No. 303,822; published Oct. 7. 1930. Class 46.
Reliable Coal & Mining Co., The, Chicago, Peoria, and Springfield, Ill.; Moberly and Kansas City, Mo.; and Omaha, Nebr. Coal. 278,542; Dec. 23; Serial No. 304,736; published Sept. 30, 1930. Class 1.
Rhodes, Jay B., Company, Kalamazoo, Mich. Oil-dispensing jars and/or cans and combination caps and spouts therefor. 278,577; Dec. 23; Serial No. 298,591; published Oct. 7, 1930. Class 2.
Riddle, W. S., Notion Co., Nashville, Tenn. Hosiery and underwear and brassières. 278,578; Dec. 23, Serial No. 298,514; published Oct. 7, 1930. Class 39.
Rigney & Company, Brooklyn, N. Y. Blend of rock candy and maple syrup. 81,744; renewed May 2, 1931. Class 46.
Robbins & Tenney, New York, N. Y. Hand bags, purses, and bathing receptacles. 278,535; Dec. 23; Serial No. 302,410; published Oct. 7, 1930. Class 3.
Ronnerman, William L., doing business as Biltmore Farm, Merrick, N. Y. Eggs. 278,528; Dec. 23; Serial No. 303,923; published Sept. 30, 1930. Class 46.
Rossich, Frne, San Francisco, Calif. Carrot juice. 278,586; Dec. 23; Serial No. 300,300; published Oct. 7, 1930. Class 46.
Rudolff, W. H., doing business as Novato French Cheese Factory, Novato, Calif. Cheese. 278,523; Dec. 23; Serial No. 304,634; published Sept. 30, 1930. Class 46.
Russell Playing Card Company, Jersey City, N. J. Playing cards. 278,638; Dec. 23; Serial No. 303,823; published Oct. 7, 1930. Class 22.
Sager, Solomon M., Evanston, Ill. Fountain pens and parts thereof. 278,576; Dec. 23; Serial No. 298,716; published Oct. 7, 1930. Class 37.
Saginaw Lime & Stone Co., Saginaw, Ala. Lime. 278,618; Dec. 23; Serial No. 303,925; published Oct. 7, 1930. Class 12.
Saizy Carlos, Ramón, to Laboratories Saiz De Carlos, S. L., Madrid, Spain, successor. Remedies for diseases of stomach and intestines. 35,634; renewed Dec. 25, 1930.
Schmid, Julius, Inc., Astoria, to Julius Schmid, Inc., New York, N. Y. Hairbrushes and toothbrushes. 81,304; renewed Mar 21, 1931.
Schoeneman, J., Incorporated, Baltimore, Md. Coats, vests, trousers, etc. 278,658; Dec. 23; Serial No. 304,016; published Oct. 7, 1930. Class 39.
Schoeneman, J., Incorporated, Baltimore, Md. Coats, vests, trousers, etc. 278,691; Dec. 23. Class 39.
Schille-Hohenlohe A.-G., Pluderhausen, Wurttember, Germany. Meals and flours of grains and vegetables, desiccated fruit and vegetables, cocoa, etc. 278,590; Dec. 23; Serial No. 299,600; published Oct. 7, 1930. Class 46.
Screen Mirror Publishing Company, The. (See Fox West Coast Theatres.)
Scudders-Gale Grocer Co., The, St. Louis, Mo. Certain foods. 81,635; renewed Apr. 25, 1931.
Sears, Roebuck and Co., Chicago, Ill. Dolls. 278,685; Dec. 23. Class 22.
Security Shoe Supply Co. (See Weinstein, Leon.)
Seelman, George & Sons Co., Milwaukee, Wis. Filing envelopes and book covers. 278,519; Dec. 23; Serial No. 296,449; published Oct. 7, 1930. Class 37.
Shields, Frank B., doing business as Foxcliff Poultry Farm, Indianapolis and Martinsville, Ind. Eggs. 278,541; Dec. 23; Serial No. 304,786; published Sept. 30, 1930. Class 46.

Shrage & Pines, New York, N. Y. Men's and boys' blouses, shirts, pajamas and nightshirts. 278,520; Dec. 23; Serial No. 295,906; published Sept. 30, 1930. Class 39.
Sickel, William E., Savannah, Ga. Cane syrup. 278,619; Dec. 23; Serial No. 304,349; published Sept. 30, 1930. Class 46.
Siegel, Rothschild-Gans Bros. Inc., Baltimore, Md. Umbrellas. 278,596; Dec. 23; Serial No. 284,918; published Sept. 30, 1930. Class 41.
Simplex Steel Products Company, Chicago, Ill. Metal studding, plaster board, and plaster. 278,633; Dec. 23; Serial No. 303,790; published Oct. 7, 1930. Class 12.
Société Anonyme "Le Bois Bakélisé", Nancy, France. Ligneous products in the raw or partly-prepared state. 278,582; Dec. 23; Serial No. 300,822; published Sept. 30, 1930. Class 1.
Southern Planter Publishing Co., The, Richmond, Va. Monthly periodical. 81,233; renewed Mar. 14, 1931.
Splitdorf Electrical Company, Newark, N. J. Covered electrical conductors. 278,564; Dec. 23; Serial No. 302,073; published Aug. 12, 1930. Class 21.
Spreen-Droge Paper Co. Inc., Brooklyn, N. Y. Containers or paper bags. 278,678; Dec. 23. Class 2.
Stanley Works, The, New Britain, Conn. Hinges and hasps. 278,556; Dec. 23; Serial No. 304,642; published Oct. 7, 1930. Class 13.
Step-In-All Underwear Corporation, The, Springfield, Mass. Undergarments. 278,581; Dec. 23; Serial No. 300,828; published Oct. 7, 1930. Class 39.
Sterling Silk Underwear Mills, Newark, N. J. Silk hosiery, underwear, and gloves. 278,593; Dec. 23; Serial No. 298,292; published Oct. 7, 1930. Class 39.
Stone & Gropper, Inc., New York, N. Y. Hand bags. 278,585; Dec. 23; Serial No. 300,448; published Oct. 7, 1930 Class 3.
Storyk Bros., New York, N. Y. Underwear. 278,660; Dec. 23; Serial No. 303,977; published Sept. 30, 1930. Class 39.
Strauss, Philip, Nanticoke, Pa. Furniture polish. 278,667; Dec. 23. Class 16.
Superior Macaroni Co., Los Angeles, Calif. Alimentary pastes. 278,611; Dec. 23; Serial No. 293,197; published Oct. 7, 1930. Class 46.
Supreme Underwear Mills, Utica, N. Y. Underwear. 81,832; renewed May 9, 1931.
Surface Combustion Co. Incorporated, The, Toledo, Ohio. Gas-burning appliances. 278,558; Dec. 23; Serial No. 304,298; published Oct. 7, 1930. Class 34.
Sussman, Wormser & Company, San Francisco, Calif. House organ. 278,566; Dec. 23; Serial No. 305,058; published Oct. 7, 1930. Class 38.
Taylor, J. P., & Co., Ltd., London, England. Undervests, corsets, sleeping suits, etc. 278,594; Dec. 23; Serial No. 286,962; published Sept. 30, 1930. Class 39.
Tie-D-Tie Co. (See Nuzum, William.)
Torrington Company, The, Torrington, Conn. Heat-resisting needles used in the valves of oil-burning stoves. 278,560; Dec. 23; Serial No. 304,114; published Oct. 7, 1930. Class 13.
Trippe, Barker & Co., New York, N. Y. Cotton and linen piece goods. 81,180; renewed Mar. 7, 1931.
Trippe, Barker & Co., New York, N. Y. Textile fabrics. 278,551; Dec. 23; Serial No. 289,219; published Oct. 7, 1930. Class 42.
United States Rubber Company, New York, N. Y. Raincoats. 278,632; Dec. 23; Serial No. 303,353; published Sept. 30, 1930. Class 39.
Universal Candy Company, Chicago, Ill. Candy. 278,579; Dec. 23; Serial No. 299,817; published Oct. 7, 1930. Class 46.
Universal Manufacturing Company, Abilene, Tex. Coffee, peanut butter, vinegar, etc. 278,575; Dec. 23; Serial No. 298,866; published Oct. 7, 1930. Class 46.
Upson-Walton Company, The, Cleveland, Ohio. Manila rope. 278,525; Dec. 23; Serial No. 304,437; published Oct. 7, 1930. Class 7.
Vahlsing, F. H., Inc., Brooklyn, N. Y. Irish potatoes. 278,670; Dec. 23. Class 46.
Valley Butter Company, Pittsburgh, Pa. Eggs. 278,554; Dec. 23; Serial No. 302,138; published Oct. 7, 1930. Class 46.
Van Arnam Manufacturing Co. (See Knott-Van Arnam Manufacturing Co.)
Vendi-Cater, Inc., Williamsport, Pa. Milk chocolate, sponge cake, doughnuts, etc. 278,515; Dec. 23; Serial No. 296,934; published Sept. 30, 1930. Class 46.
Vereinigte Chininfabriken Zimmer & Co. Ges. Mit Beschrinkter Haftung, Frankfort-on-the-Main, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Oleates of sodium. 36,046; renewed Mar. 12, 1931.
Wallace, R., & Sons Mfg. Co., Wallingford, Conn. Kitchen and household tools or utensils. 278,603; Dec. 23; Serial No. 249,559; published Aug. 2, 1927. Class 23.
Wanamaker, John, New York, New York, N. Y. Hosiery. 278,628; Dec. 23; Serial No. 303,018; published Oct. 7, 1930. Class 39.
Ward La France Truck Corporation, Elmira, N. Y. Motor vehicles and constructive parts thereof. 278,671; Dec. 23. Class 19.
Warren, W., Thread Works. (See Blodget & Orswell Co., assignor.)
Watkins, J. R., Company, The, Winona, Minn. Salve. 278,681; Dec. 23. Class 6.
Weidner, John G., Trucksville, Pa. Sandwiches. 278,531; Dec. 23; Serial No. 303,671; published Sept. 30, 1930. Class 46.
Weinstein, Leon, doing business as Security Shoe Supply Co., St. Louis, Mo. Toe plates, heel plates, and braces for shoes. 278,509; Dec. 23; Serial No. 293,759; published Oct. 7, 1930. Class 13.
Westcott Hosiery Mills, Dalton, Ga. Hosiery. 278,612; Dec. 23; Serial No. 304,172; published Oct. 7, 1930. Class 39.
Western Water Heater Corp. Ltd., Los Angeles, Calif. Water heaters. 278,591; Dec. 23; Serial No. 299,358; published Oct. 7, 1930. Class 34.
Wiesen, Max, & Sons Co. Inc., New York, N. Y. Dresses. 278,680; Dec. 23. Class 39.
Winsted Hosiery Company, New York, N. Y. Men's woolen shirts, sweat shirts, and undershirts. 278,676; Dec. 23. Class 39.
Wolfe, Auxilice, Pawtucket, R. I. Liquid compound used for bleaching. 81,654; renewed Apr. 25, 1931.
Wright, A. E., doing business as Pennrington Poultry Farm, Reidsville, N. C. Eggs, baby chicks, and live poultry. 278,651; Dec. 23; Serial No. 302,172; published Sept. 30, 1930. Class 46.
Wright & Ditson, Jersey City, N. J., and Boston, Mass. Certain named athletic goods. 35,983; renewed Feb. 26, 1931.
Württembergische Metallwarenfabrik, Geislingen-Steige, Wurttemberg, Germany. Hollow ware, coffee urns, etc. 278,510; Dec 23; Serial No. 297,463; published Oct. 7, 1930. Class 13.
Yonker Brothers, Inc., Des Moines, Iowa. Sports wear, neckwear, gloves, etc. 278,512; Dec. 23; Serial No. 297,113; published Oct. 7, 1930. Class 39.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS

Bardell, J. C., San Francisco, Calif. Bardell Viewpack No. 8. For Miniature Post Cards and Like Articles. 38,394; Dec. 23.
Browner, Nat C., New York, N. Y. Gym-Nas-Tix. For Shoes. 38,395; Dec. 23.
California Mushroom Company, Whittier, Calif. Savery Savory Mushrooms. For Mushrooms. 38,396; Dec. 23.
Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's Pecan Rolls. For Pecan Rolls. 38,397; Dec. 23.
Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's Cup Cakes. For Cup Cakes. 38,398; Dec. 23.
Erickson, Emil A., Minneapolis, Minn. Maltena. For Cereals. 38,399; Dec. 23.
Hompe, J. B. & Son, Deer Creek, Minn. Land O'Lakes. For Coffee. 38,400; Dec. 23.
Keating, A. F. Co. Inc., Decatur, Ill. Darlene Frocks. For Wash Dresses. 38,401; Dec. 23.
L. B. Co., Chicago, Ill. Moth Seal. For Moth-Proof Garment Bags. 38,402; Dec. 23.
Lieb, Edw. J., doing business as Lieb Cigar Company. Roselane. For Cigars. 38,403; Dec. 23.
Louisville Milling Co., Minneapolis, Minn. Sonny South. For Wheat Food Cereal (Farina). 38,404; Dec. 23.
Pern, Hal Mfg. Co., Inc., Brooklyn, N. Y. Happy Bunny Sr. Pure Food Colors For Easter Eggs. For Easter-Egg Colors. 38,405; Dec. 23.
Puritan Malt Extract Company, Milwaukee, Wis. Puritan Malt. For Malt Extract. 38,406; Dec. 23.
Red Cedar Shingle Bureau, The, Seattle, Wash. Standard Edge Grain Roofing Shingles. For Roofing Shingles. 38,407; Dec. 23.
Regal Stores, Inc., Indianapolis, Ind. Regal. For Oleomargarine. 38,408; Dec. 23.
Shirriff's Limited, Toronto, Canada. Shirriff's Good Morning Marmalade. For Marmalade. 38,409; Dec. 23.
Ward Baking Company, New York, N. Y. Paradise Fruit Cake. For Cake. 38,410; Dec. 23.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS

Clark's Dollar Stores Inc., Los Angeles, Calif. Clark's. For Shirts. 12,866; Dec. 23.
Clark's Dollar Stores, Inc., Los Angeles, Calif. Clark's Dollar Stores. For Shirts. 12,867; Dec. 23.
Cream of Wheat Corporation, The, Minneapolis, Minn. He's Getting a Wonderful Start in Life. For Wheat Breakfast Food. 12,868; Dec. 23.
Daggett Chocolate Company, Cambridge, Mass. Daggett's Chocolates. For Chocolates. 12,869; Dec. 23.
Hills Bros., San Francisco, Calif. The Most Luscious Chocolate Creams are Dipped by Hand (14—Z—1930). For Coffee. 12,870; Dec. 23.
Hills Bros., San Francisco, Calif. Hill Bros' Vacuum Packing Process, Seals in all the Flavor Produced by Roasting Coffee a Few Pounds at a Time. (14—AE—1930). For Coffee. 12,871; Dec. 23.
Hills Bros., San Francisco, Calif. Every Grain of Rice is Cooked Perfectly if Added to the Boiling Water a Little at a Time (14—AA—1930). For Coffee. 12,872; Dec. 23.
Hills Bros., San Francisco, Calif. If You See the Arab it's Hill Bros. Coffee—Roasted a Few Pounds at a Time (14—AB—1930). For Coffee. 12,873; Dec. 23.
Hills Bros., San Francisco, Calif. You Won't Have Lumpy Gravy if You Add the Water a Little at a Time (14—AC—1930). For Coffee. 12,874; Dec. 23.
Hills Bros., San Francisco, Calif. A Little at a Time (14—AN—1930). For Coffee. 12,875; Dec. 23.
Hills Bros., San Francisco, Calif. Don't Take a Chance! Combine the Muffin Ingredients a Little at a Time (14—AD—1930). For Coffee. 12,876; Dec. 23.
Hills Bros., San Francisco, Calif. A Little at a Time (14—BJ—1930). For Coffee. 12,877; Dec. 23.
Hills Bros., San Francisco, Calif. A Few Pounds at a Time (14—BK—1930). For Coffee. 12,878; Dec. 23.
Hills Bros., San Francisco, Calif. Remember This in Making Pie Crust . . . Add the Water a Little at a Time (14—G—1930). For Coffee. 12,879; Dec. 23.
Hills Bros., San Francisco, Calif. Of all Coffee Trade-Marks Only Hill Bros' Arab Guarantees Coffee Roasted a Few Pounds at a Time (14—AF—1930). For Coffee. 12,880; Dec. 23.
Hills Bros., San Francisco, Calif. A Little at a Time (14—AP—1930). For Coffee. 12,881; Dec. 23.
Hills Bros., San Francisco, Calif. A Few at a Time (14—AQ—1930). For Coffee. 12,882; Dec. 23.
Hills Bros., San Francisco, Calif. A Little at a Time (14—AR—1930). For Coffee. 12,883; Dec. 23.
Hills Bros., San Francisco, Calif. A Few at a Time (14—AS—1930). For Coffee. 12,884; Dec. 23.
Hills Bros., San Francisco, Calif. A Little at a Time (14—AT—1930). For Coffee. 12,885; Dec. 23.
Hills Bros., San Francisco, Calif. A Little at a Time (14—AV—1930). For Coffee. 12,886; Dec. 23.
Hills Bros., San Francisco, Calif. A Little at a Time (14—AW—1930). For Coffee. 12,887; Dec. 23.
Hills Bros., San Francisco, Calif. A Few Pounds at a Time (14—AX—1930). For Coffee. 12,888; Dec. 23.
Hills Bros., San Francisco, Calif. A Little at a Time (14—AY—1930). For Coffee. 12,889; Dec. 23.
Hills Bros., San Francisco, Calif. A Little at a Time (14—AZ—1930). For Coffee. 12,890; Dec. 23.
Hills Bros., San Francisco, Calif. Only a Little at a Time (14—BA—1930). For Coffee. 12,891; Dec. 23.
Hills Bros., San Francisco, Calif. One at a Time (14—BC—1930). For Coffee. 12,892; Dec. 23.
Hills Bros., San Francisco, Calif. A Little at a Time (14—BD—1930). For Coffee. 12,893; Dec. 23.
Hills Bros., San Francisco, Calif. A Little at a Time (14—BE—1930). For Coffee. 12,894; Dec. 23.
Hills Bros., San Francisco, Calif. A Few Pounds at a Time (14—BF—1930). For Coffee. 12,895; Dec. 28.
Hills Bros., San Francisco, Calif. A Few Pounds at a Time (14—BB—1930). For Coffee. 12,896; Dec. 23.
Hills Bros., San Francisco, Calif. A Little at a Time (14—BG—1930). For Coffee. 12,897; Dec. 23.
Hills Bros., San Francisco, Calif. A Little at a Time (14—BH—1930). For Coffee. 12,898; Dec. 23.
Hills Bros., San Francisco, Calif. A Little at a Time (14—BL—1930). For Coffee. 12,899; Dec. 23.
Hills Bros., San Francisco, Calif. One at a Time (14—BM—1930). For Coffee. 12,900; Dec. 23.
Hills Bros., San Francisco, Calif. A Few at a Time (14—BN—1930). For Coffee. 12,901; Dec. 23.
Hills Bros., San Francisco, Calif. French-Fried Potatoes Can Be Done To a Turn if Cooked (14—T—1930). For Coffee. 12,902; Dec. 23.
Hills Bros., San Francisco, Calif. A Few Pounds at a Time (14—BP—1930). For Coffee. 12,903; Dec. 23.
Hills Bros., San Francisco, Calif. Here's The Vacuum Can That Holds Hills Bros. Coffee Roasted a Few Pounds at a Time (14—V—1930). For Coffee. 12,904; Dec. 23.
Hills Bros., San Francisco, Calif. Don't Drown Your Roast, Baste It Often—A Little at a Time (14—W—1930). For Coffee. 12,905; Dec. 23.
Hills Bros., San Francisco, Calif. The Steak Tastes Better When It Is Broiled On Each Side a Little at a Time (14—X—1930). For Coffee. 12,906; Dec. 23.
Hills Bros., San Francisco, Calif. Hills Bros. Have the Right Idea in Roasting Coffee . . . a Little at a Time (14—Y—1930). For Coffee. 12,907; Dec. 23.
Hills Bros., San Francisco, Calif. Hills Bros. Coffee Has a Flavor no Other Coffee Has Because it is Roasted a Few Pounds at a Time (14—H—1930). For Coffee. 12,908; Dec. 23.
Hills Bros., San Francisco, Calif. If You See the Arab it's Hills Bros. Coffee, Etc. (14—M—1930). For Coffee. 12,909; Dec. 23.
Hills Bros., San Francisco, Calif. You Can't go Wrong in Making Biscuits if You Add the Milk Only a Little at a Time (14—Q—1930). For Coffee. 12,910; Dec. 23.
Hills Bros., San Francisco, Calif. Hills Bros. Coffee Has a Flavor no Other Coffee Has Because it is Roasted (14—P—1930). For Coffee. 12,911; Dec. 23.
Hills Bros., San Francisco, Calif. It's Risky to Cook a Lot of Doughnuts at Once. . . Cook Only a Few at a Time (14—N—1930). For Coffee. 12,912; Dec. 23.
Hills Bros., San Francisco, Calif. Hills Bros. Coffee Has a Flavor no Other Coffee Has Because it is Roasted a Few Pounds at a Time (14—C—1930). For Coffee. 12,913; Dec. 23.
Hills Bros., San Francisco, Calif. No Chance for the Mayonnaise to Separate if You Add the Oil a Little at a Time (14—D—1930). For Coffee. 12,914; Dec. 23.
Hills Bros., San Francisco, Calif. Careful Now! . . . Add That Cereal a Little at a Time (14—A—1930). For Coffee. 12,915; Dec. 23.
Hills Bros., San Francisco, Calif. 28 Cake Recipes Say . . . Add the Sugar . . . Add the Flour. . . Add the Milk a Little at a Time (14—B—1930). For Coffee. 12,916; Dec. 23.
Hills Bros., San Francisco, Calif. The Best Rule in Jelly-Making—Add the Warm Sugar to the Fruit Syrup a Little at a Time (14—J—1930). For Coffee. 12,917; Dec. 23.
Nestle's Milk Products, Inc., New York, N. Y. Thanksgiving Greetings—For Lactogen, a Milk Product. 12,918; Dec. 23.
Schlitz, Jos., Beverage Company, Milwaukee, Wis. Mamma and Papa. For Malt Syrup. 12,919; Dec. 23.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Adrosol Company, The., Detroit, Mich. Medicine. 306,925; Dec. 23. Class 6.
Albers Packing Company, Riverside, Calif. Canned olives. 307,381; Dec. 23. Class 46.
Alloys Foundry Corporation, New York, N. Y. Aluminum castings. 307,297; Dec. 23. Class 14.
American Briquet Company, The, Philadelphia, Pa. Coal briquets. 307,614; Dec. 23. Class 1.
American Pop Corn Company, Sioux City, Iowa. Pop corn. 307,151; Dec. 23. Class 46.
American Slicing Machine Co., Chicago, Ill. Slicing machines. 305,306; Dec. 23. Class 23.
American Steel and Wire Company of New Jersey, The, Cleveland, Ohio; Chicago, Ill.; Pittsburgh, Pa.; New York, N. Y.; Worcester, Mass.; and Hoboken, N. J. Wire rope. 306,849; Dec. 23. Class 7.
American Window Glass Company, Pittsburgh, Pa. Sheet glass. 307,153; Dec. 23. Class 33.
Antuono, Val M., Tampa, Fla. Cigars. 307,196; Dec. 23. Class 17.
Arcadia Knitting Mills Inc., Allentown, Pa. Rayon cloth. 307,758; Dec. 23. Class 42.
Armstrong, Catherine L., doing business as Mme. Leontine, New York, N. Y. Toilet preparations and cosmetics. 307,466; Dec. 23. Class 6.
Arnold, M. N., Shoe Company, North Abington, Mass. Bag for carrying golf balls and shoes. 307,881; Dec. 23. Class 22.
Arnold Pharmacal Company. (See Segall, Henry.)
Atlantic Mills, The, Olneyville and Providence, R. I., and Stottville, N. Y. Woolen textile fabrics. 266,076; Dec. 23. Class 42.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Atlantic Mills, The, Olneyville and Providence, R. I., and Stottville, N. Y. All-wool coating fabric. 299,038; Dec. 23. Class 42.
Belk-Stevens Company, Winston-Salem, N. C. Overalls. 307,344; Dec. 23. Class 39.
Bell, John, New York, N. Y. Liniment. 306,992; Dec. 23. Class 6.
Berkey, Howard L., doing business as The Dehydrating Company, Tulsa, Okla. Petroleum-treating compound. 303,794; Dec. 23. Class 6.
Blair, Elizabeth M., doing business as Blair Mfg. & Sales Company, Chicago, Ill. Clay cream. 295,974; Dec. 23. Class 6.
Bloomingdale Bros., Inc., New York, N. Y. Trunks. 307,473; Dec. 23. Class 3.
Borgmann, Herbert, St. Louis, Mo. Safety-razor blades. 307,300; Dec. 23. Class 23.
Brenwitt Coal & Coke Co., The, Toledo, Ohio. Coal. 307,250; Dec. 23. Class 1.
British Enka Artificial Silk Company Limited, London, England. Yarns, threads, and fibres made of cellulose. 296,317–20; Dec. 23. Class 43.
Broske, William H., doing business as Golden Jar Dairies, Rockford, Ill. Butter. 307,129; Dec. 23. Class 46.
Brown Durrell Co., Boston, Mass. Hosiery. 307,089; Dec. 23. Class 39.
Campbell Machine Co., Minneapolis, Minn. Humidifiers. 307,884; Dec. 23. Class 34.
Canadian Pale Products Association. (See Graupner, R. H.)
Capital City Products Company, The, Columbus, Ohio. Cottonseed oil. 306,032; Dec. 23. Class 46.
Cascade Woolen Mill, Oakland, Me. Woolen piece goods. 300,465; Dec. 23. Class 42.
Cheerio Dress Co., Inc., New York, N. Y. Dresses. 306,728; Dec. 23. Class 39.
Cheney Brothers, South Manchester, Conn. Fabrics in the piece. 307,800; Dec. 23. Class 42.
Chin Tom, Idaho Falls, Idaho. Healing and antiseptic solution. 306,975; Dec. 23. Class 6.
Clayton, Herbert D., doing business as Clayton and Company, Hill City, Kans. Merry-go-rounds. 306,881; Dec. 23. Class 22.
Clemmer, D. P., Co. (Not incorporated), Chicago, Ill. Flexible sheet material. 306,260; Dec. 23. Class 50.
Coffin, G. Winthrop. (See Winthrop Orchards Inc.)
Cohen, Goldman & Co. Inc., New York, N. Y. Coats, vests, pants, etc. 304,537–8; Dec. 23. Class 39.
Cohen, M. & B., Co., New York, N. Y. Suits, topcoats, and overcoats. 302,211; Dec. 23. Class 39.
Collegeville Flag & Mfg. Co., Collegeville, Pa. Flags, pennants, and flag holders. 300,560; Dec. 23. Class 50.
Cooperative Sales Service, Incorporated, Detroit, Mich. Book of coupons. 306,695; Dec. 23. Class 38.
Cortland Line Company, Incorporated, Cortland, N. Y. Silk fishlines. 307,200; Dec. 23. Class 22.
Cumo, Limited, Portadown, Armagh, Northern Ireland. Medicinal tonic. 304,189; Dec. 23. Class 6.
Curtis Manufacturing Company, doing business as Curtis Pneumatic Machinery Company and Curtis Saw Company, Wellston Station, Mo. Air-compressor outfits or units. 304,996; Dec. 23. Class 23.
Curtiss Candy Company, The, Chicago, Ill. Candy bars. 303,630; Dec. 23. Class 46.
Dalbow Food Products Co., New York, N. Y. Food products. 306,002; Dec. 23. Class 46.
De Bord, Charles L., doing business as De Bord Mills, Johnson City, Tenn. Wheat flour. 307,886; Dec. 23. Class 46.
Deer River Creamery Company, Deer River, Minn. Butter. 295,365; Dec. 23. Class 46.
Dehydrating Company, The. (See Berkey, Howard L.)
Dek Sales Co. (See Shaffer, Cleve F.)
De Lima, Herbert A., doing business as Herbert Kirk, New York, N. Y. Cartoons. 303,741; Dec. 23. Class 38.
Ditson, Oliver, Company, Boston, Mass. Piano practice keyobards. 307,091; Dec. 23. Class 36.
Dixon Valve and Coupling Company, Philadelphia, Pa. Hose couplings. 307,661–2; Dec. 23. Class 13.
Dodge Manufacturing Corporation, Wilmington, Del, and Mishawaka, Ind. Belt drives or power transmissions and the said parts thereof. 300,787; Dec. 23. Class 23.
Dolge, C. B., Co., The, Westport, Conn. Wall diffusers for deodorizing blocs. 301,862; Dec. 23. Class 2.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Fertilizers and acid phosphates. 304,498; Dec. 23. Class 10.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Rubberized fabrics. 306,474; Dec. 23. Class 50.
Ethyl Gasoline Corporation, New York, N. Y. Knock-testing engines. 305,271; Dec. 23. Class 23.
Evans-Winter-Hebb, Inc., Detroit, Mich. Booklets, folders, broadsides, or other printed pieces. 291,969; Dec. 23. Class 38.
Excelsis Products Company, Salt Lake City, Utah. Lotions, creams, and toilet articles. 306,487; Dec. 23. Class 6.
Fancher, Ulysses E., doing business as Fancher's Saltex Company, Columbus, Ohio. Obesity preparation. 307,846; Dec. 23. Class 6.
Feibleman, L., & Company, New Orleans, La. Hosiery. 301,384; Dec. 23. Class 39.
Fintex Corporation, The, Detroit, Mich. Suits, overcoats, vests, and trousers. 300,485; Dec. 23. Class 39.
Florida Chemical Company. (See Harris, George H.)
Fracy, Inc., New York, N. Y. Antiseptic. 306,735; Dec. 23. Class 6.
French, Sherman Q., Hawarden, Iowa. Waterers. 307,203; Dec. 23. Class 50.
Gates, M., Garment Co., The, Leavenworth, Kans. Dresses. 306,998; Dec. 23. Class 39.
General Mills, Inc., Minneapolis, Minn. Wheat flour. 300,868; Dec. 23. Class 46.
Gibbs, Antony, & Co., Inc., New York, N. Y. Piece goods. 307,772; Dec. 23. Class 42.
Glascock Brothers Manufacturing Co., Muncie, Ind. Bottle coolers. 298,696; Dec. 23. Class 31.
Glemby Company, Inc., The, New York, N. Y. Hair nets. 307,050; Dec. 23. Class 42.
Golden Jar Dairies. (See Broske, William H.)
Gordon & Ferguson, Inc., St. Paul, Minn. Hats and caps, gloves, fur coats, etc. 290,947; Dec. 23. Class 39.
Graupner, R. H., doing business as Canadian Pale Products Association, Harrisburg, Pa. Malt beverages. 305,930; Dec. 23. Class 48.
Harris, Edward M., doing business as Harris Manufacturing Co., Riverside, N. J. Radiator cement. 304,140; Dec. 23. Class 6.
Harris, George H., doing business as Florida Chemical Company, Tampa, Fla. Medicinal preparation. 307,449; Dec. 23. Class 6.
Hart and Hart, Ltd., Los Angeles, Calif. Dresses, suits, coats, etc. 306,441; Dec. 23. Class 39.
Hartmann, Paul, Aktiengesellschaft Heidenheim, Wurtemberg, Germany. Medicated plasters, creams, and ointments. 291,091; Dec. 23. Class 6.
Hedrick, Harold H., doing business as Dr. Hedrick Laboratories, Chicago, Ill. Foot lotions. 305,462; Dec. 23. Class 6.
Heller, Morris, doing business as The Venice Importing Co., Brooklyn, N. Y. Salad oil. 306,496; Dec. 23. Class 46.
Hettrick Manufacturing Company, The, Toledo, Ohio. Liquids used in the waterproofing of fabric materials. 302,389; Dec. 23. Class 6.
Hirsch and Baar, New Orleans, La. Coats, vests, trousers, etc. 296,967; Dec. 23. Class 39.
Hobson, Ota O., Cedar Rapids, Iowa. Benches, stools, etc. 299,776; Dec. 23. Class 32.
Holophane Company, Inc., New York, N. Y. Heat-resisting glassware. 307,894; Dec. 23. Class 33.
Ice Cream Press, Inc., New York, N. Y. Periodical. 305,080; Dec. 23. Class 38.
Indiana Limestone Company, Bedford, Ind. and New York, N. Y. Building stone. 301,454; Dec. 23. Class 1.
International Postal Supply Company, The, Brooklyn, N. Y. Stamp-canceling machines, postage-metering machines, sealing machines, etc. 307,493; Dec. 23. Class 23.
Kelpidine Company, The, Portland, Oreg. Bread compound. 301,943; Dec. 23. Class 46.
Kelvinator Corporation, Detroit, Mich. Refrigerator cabinets and mechanical refrigerating apparatus. 305,044; Dec. 23. Class 31.
Kendall Company, The, Walpole, Mass. Cheesecloth and dusting and polishing cloths in the piece. 294,116; Dec. 23. Class 42.
Kensington Steel Company, Chicago, Ill. Steel castings. 306,895; Dec. 23. Class 14.
Kirk, Herbert. (See De Lima, Herbert.)
Kresge Department Store Corporation, Newark, N. J. Suits, overcoats, and topcoats. 306,652; Dec. 23. Class 39.
Largman, Gray Company, New York, N. Y. Hosiery. 306,137; Dec. 23. Class 39.
Leading Dress and Costume Co. Inc., New York, N. Y. Coats, suits, capes, etc. 300,138; Dec. 23. Class 39.
Le Laboratoire du Bactériophage, Paris, France. Agents in ampoule form, destructive of bacteria or bacterialike bodies. 306,789; Dec. 23. Class 6.
Lee, Dorothea, New York, N. Y. Chili con carne, tamales, sausages, etc. 296,066; Dec. 23. Class 46.
Levine, Mervin S., New York, N. Y. Suits, topcoats, and tuxedos. 307,322; Dec. 23. Class 39.
Los Angeles Examiner, Los Angeles, Calif. Newspaper column. 306,499; Dec. 23. Class 38.
Lusca Kil-Tone Company, Vineland, N. J. Oil sprays. 307,530; Dec. 23. Class 6.
Madame Dordilly D. Durdilly, née Clémence Jacotin, Paris, France. Hair-removing wax. 290,505; Dec. 23. Class 6.
Manufacturing Equipment and Engineering Company, Framingham, Mass. Chairs, benches, lockers, etc. 305,489; Dec. 23. Class 32.
Metal Wares Company, The, Kansas City, Mo. Coffee. 304,622; Dec. 23. Class 46.
Miller, Charles N., Company, Boston, Mass. Candy. 307,362; Dec. 23. Class 46.
Mme. Leontine. (See Armstrong, Catherine L.)

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Modern Standards Inc., New York, N. Y. Publication. 307,168; Dec. 23. Class 38.
Naamlooze Vennootschap Kaashandel Betz & Jay, Rotterdam, Netherlands. Cheese. 301,193; Dec. 23. Class 46.
National Society of The Sons of the American Revolution, Washington, D. C. Magazine. 307,502; Dec. 23. Class 38.
New York Toasted Nut House, Inc., Brooklyn, N. Y. Toasted nuts. 306,538; Dec. 23. Class 46.
Niagara Alkali Company, Niagara Falls, N. Y. Insecticides, disinfectants, and deodorants. 307,853; Dec. 23. Class 6.
Nyal Company, Detroit, Mich. Face powder, facial astringent, skin tonic, etc. 303,920; Dec. 23. Class 6.
Ohio Cheese Products Company, The, Zenia, Ohio. Candied pickle chips and cheeselike food products. 271,264; Dec. 23. Class 46.
Old Colony Distributing Company, Boston, Mass. Folding shaving kits. 304,422–3; Dec. 23. Class 50.
Old Town Ribbon & Carbon Company, Inc., Brooklyn, N. Y. Carbon paper. 304,665; Dec. 23. Class 11.
Palm Brothers Decalcomania Company, The, South Norwood, Cincinnati, Ohio. Decalcomanias. 307,366; Dec. 23. Class 38.
Palm Brothers Decalcomania Company, The, South Norwood, Cincinnati, Ohio. Decalcomanias. 307,456; Class 23. Class 38.
Paramount Publix Corporation, New York, N. Y. Motion pictures. 306,013; Dec. 23. Class 26.
Pollack, Max, & Co. Inc., New York, N. Y. Sewing threads. 307,144; Dec. 23. Class 43.
Popular Publications, New York, N. Y. Periodical. 303,120; Dec. 23. Class 38.
Reed Laboratories Incorporated, The, Kew Gardens, N. Y. Cosmetics. 303,210; Dec. 23. Class 6.
Rodda, R. E., Candy Company, Lancaster, Pa. Candy. 271,009; Dec. 23. Class 46.
Rose, Granville P., jr., doing business as G. P. Rose & Co., Nashville, Tenn. Dog and puppy feed. 303,009; Dec. 23. Class 46.
Rossie Velvet Company, Mystic, Conn. Pile fabrics. 307,738; Dec. 23. Class 42.
Rubens & Meyer, New York, N. Y. Hosiery. 306,325; Dec. 23. Class 39.
Sav-Silk, Inc., Medina, N. Y. Preservant, cleanser, and water softener. 306,515; Dec. 23. Class 6.
Schieffelin & Company, New York, N. Y. Olive oil. 306,326; Dec. 23. Class 46.
Schmidt Baking Company, Baltimore, Md. Bread. 304,297; Dec. 23. Class 46.
Schoeneman, J., Incorporated, Baltimore, Md. Coats, vests, trousers, etc. 307,427; Dec. 23. Class 39.
Schultz, Baujan & Company, Beardstown, Ill. Feed. 301,301; Dec. 23. Class 46.
Segall, Henry, doing business as Arnold Pharmacal Company, New York, N. Y. Olive-oil shampoo, nail polish, and emollient. 280,355; Dec. 23. Class 6.
Selma Mercantile Corporation, New York, N. Y. Diamond tools. 307,859; Dec. 23. Class 23.
Seng Company, The, Estacada, Oreg. Flavoring syrups for soft drinks. 270,640; Dec. 23. Class 45.
Shaffer, Cleve F., doing business as Dek Sales Co., San Francisco, Calif. Games and hand pieces. 306,017; Dec. 23. Class 22.
Sikorsky, I., College Point, N. Y. Toy airplanes and toy airplane parts. 285,042–4; Dec. 23. Class 22.
Squibb, E. R., & Sons, New York, N. Y. Absorbents, allergens, analgesics, etc. 287,982; Dec. 23. Class 6.
Stalp, W. F., Co. Inc., New York, N. Y. Cotton, cotton and wool, rayon and cotton, etc., piece goods. 307,786; Dec. 23. Class 42.
Standard Biscuit Company, The, Des Moines, Iowa. Biscuits. 306,290; Dec. 23. Class 46.
Standard Brands Incorporated, New York, N. Y. Coffee. 305,325; Dec. 23. Class 46.
Standard Brands Incorporated, New York, N. Y. Tea. 307,372; Dec. 23. Class 46.
Stern Brothers, New York, N. Y. Underclothing. 307,118; Dec. 23. Class 39.
Sutter Cooperative Growers, San Francisco, Calif. Canned fruits. 290,155; Dec. 23. Class 46.
Sutter Cooperative Growers, San Francisco, Calif. Canned fruits and canned vegetables. 290,156; Dec. 23. Class 46.
Sutter Cooperative Growers, San Francisco, Calif. Canned fruits and canned vegetables. 290,158; Dec. 23. Class 46.
Tennessee Products Corporation, Nashville, Tenn. Antifreeze mixtures. 305,422; Dec. 23. Class 6.
Tobin, Clarke W., Inc., New York, N. Y. Hosiery. 307,377; Dec. 23. Class 39.
Trainor Food Corporation, Dover, Del., and New York, N. Y. Potato crisps and potato waffles. 307,540; Dec. 23. Class 46.
Transit Mixers, Inc., San Francisco, Calif. Machine trucks. 285,993; Dec. 23. Class 23.
Trimont Manufacturing Company, Boston, Mass. Pipe-cutter wheels. 307,292; Dec. 23. Class 23.
Uchida, K., Westmoreland, Calif. Fresh melons. 306,251; Dec. 23. Class 46.
United Conveyor Corporation, Chicago, Ill. Conveyors and conveying systems. 306,978–9; Dec. 23. Class 23.
Universal Clock & Globe Corp., Wilmington, Del. Geographical and astronomical globes. 307,334; Dec. 23. Class 26.
Van Camp Sea Food Co. Inc., Terminal Islands, Los Angeles, Calif. Canned fish. 300,156; Dec. 23. Class 46.
Velga, Limitada, Setubal, Portugal. Fish. 303,229; Dec. 23. Class 46.
Venice Importing Co., The. (See Heller, Morris.)
Von Damm, Henry W., doing business as F. H. Von Damm, Brooklyn, N. Y. Garden fertilizers. 299,633; Dec. 23. Class 10.
Von Damm, Henry W., doing business as F. H. Von Damm, Brooklyn, N. Y. Bird medicines and insecticides. 299,634; Dec. 23. Class 6.
Wagner, Charles H., doing business as C. H. Wagner, Covington, Ky. Medicinal preparation. 307,379; Dec. 23. Class 6.
Walton, Oliver H., doing business as Charles Walton & Son, Needham Heights, Mass. Knit elastic fabric in the piece and corset strips. 306,907; Dec. 23. Class 42.
Wamsutta Mills, New Bedford, Mass. Cotton piece goods, pillowcases, and sheets. 306,210; Dec. 23. Class 42.
Werner Drug & Chemical Co., Cincinnati, Ohio. Liquid preparation and an ointment for coughs, colds, etc. 307,910; Dec. 23. Class 6.
Western Clock Company, Peru, Ill. Clocks and watches. 299,745–6; Dec. 23. Class 27.
Wheeling Steel Corporation, Wheeling, W. Va. Metal pipe fittings. 306,078; Dec. 23. Class 13.
Wimelbacher & Rice, New York, N. Y. Gloves. 306,514; Dec. 23. Class 39.
Winthrop Orchards Inc., doing business as G. Winthrop Coffin, Seattle, Wash. Apples. 306,794; Dec. 23. Class 46.
Wishart, Fuller, Charlotte, N. C. Face powder. 306,910; Dec. 23. Class 6.
World's Star Knitting Company, Bay City, Mich. Hosiery and underwear. 303,141; Dec. 23. Class 39.
Zollinger & Schroth, Inc., New York, N. Y. Silk piece goods. 306,918; Dec. 23. Class 42.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Reliable Coal & Mining Co. 278,542; Dec. 23; Serial No. 304,736; published Sept. 30, 1930.
Ligneous products in the raw or partly-prepared state. Société Anonyme "Le Bois Bakélisé". 278,582; Dec. 23; Serial No. 300,822; published Sept. 30, 1930.

CLASS 2

Containers or paper bags. Spreen-Droge Paper Co. Inc. 278,678; Dec. 23.
Jars and/or cans, etc., Oil-dispensing. Jay B. Rhodes Company. 278,577; Dec. 23; Serial No. 298,591; published Oct. 7, 1930.

CLASS 3

Hand bags. Stone & Gropper, Inc. 278,585; Dec. 23; Serial No. 300,448; published Oct. 7, 1930.
Hand bags, purses, and bathing receptacles. Robbins & Tenney. 278,535; Dec. 23; Serial No. 302,410; published Oct. 7, 1930.
Hatboxes, suitcases, hand bags, Leather. Knox Hat Company. 278,598; Dec. 23; Serial No. 279,658; published Sept. 30, 1930.
Purses, wallets, key cases, etc. Diary Publishing Corporation, The. 278,539; Dec. 23; Serial No. 305,038; published Oct. 7, 1930.
Suitcases and valises, Gladstone coat cases, etc. Franklin Leather Goods Co. 278,524; Dec. 23; Serial No. 304,549; published Oct. 7, 1930.

CLASS 4

Medicinal, toilet and antiseptic preparations. Norddeutsche Wollkämmerei & Kammgarnspinnerei. 36,050; renewed Mar 12, 1931.
Wool fat and wool fat preparations. Norddeutsche Wollkämmerei & Kammgarnspinnerei. 35,928; renewed Feb. 19, 1931.

CLASS 5

Liquid bond for foundry cores. Earl Paint Corporation. 278,532; Dec. 23; Serial No. 303,530; published Sept. 30, 1930.

CLASS 6

Chemicals. E. Merck. 80,861; renewed Feb. 7, 1931.
Liquid compound used for bleaching. A. Wolfe. 81,654; renewed Apr. 25, 1931.
Manures, fertilizers, etc. Chemische Fabrik Rhenania. 35,930; renewed Feb. 19, 1931.
Medicinal remedies. Peninsular Chemical Co. 81,544; renewed Apr. 18, 1931.
Oleates of sodium. Vereinigte Chininfabriken Zimmer. 36,046; renewed Mar. 12, 1931.

Perfumes, face and bath powder, powder and rouge compacts, etc. Gimbel Brothers, Inc. 278,682; Dec. 23.
Pharmaceutical Products. Dr. Lilienfeld & Co. 35,772; renewed Jan. 15, 1931.
Remedies for diseases of stomach and intestines. Ramón Saiz y Carlos. 35,634; renewed Dec. 25, 1930.
Remedy for the nerves of the brain. Farbwerke vorm. Meister Lucius & Brüning. 81,062; renewed Feb. 28, 1931.
Salve. J. R. Watkins Company. 278,681; Dec. 23.

CLASS 7

Rope, Manilla. Upson-Walton Company. 278,525; Dec. 23; Serial No. 304,437; published Oct. 7, 1930.

CLASS 9

Firecrackers. Pekin Fireworks Company. 278,533; Dec. 23; Serial No. 303,451; published Oct. 7, 1930.

CLASS 12

Cement, Refractory. E. J. Lavino and Company. 278,620; Dec. 23; Serial No. 304,564; published Oct. 7, 1930.
Coverings for floors, ceilings, etc. C. & E. Mahla. 35,997; renewed Mar. 5, 1931.
Doors, Sash, trim, etc. Byron Sash & Door Company. 278,580; Dec. 23; Serial No. 300,854; published Oct. 7, 1930.
Lime. Saginaw Lime & Stone Co. 278,618; Dec. 23; Serial No. 304,690; published Oct. 7, 1930.
Pipe-joint compounds. W. Mano. 278,621; Dec. 23; Serial No. 304,690; published Oct. 7, 1930.
Studding, plaster board and plaster metal. Simplex Steel Products Company. 278,633; Dec. 23; Serial No. 303,790; published Oct. 7, 1930.

CLASS 13

Hinges and hasps. Stanley Works. 278,556; Dec. 23; Serial No. 304,642; published Oct. 7, 1930.
Hollow ware, coffee urns, etc. Württembergische Metallwarenfabrik. 278,510; Dec. 23; Serial No. 297,463; published Oct. 7, 1930.
Needles used in the valves of oil-burning stoves, Heat-resisting. Torrington Company. 278,560; Dec. 23; Serial No. 304,114; published Oct. 7, 1930.
Tanks and hinged seats for water-closets, Flushing. Knott-Van Arnam Manufacturing Co. 81,082; renewed Feb. 28, 1931.
Toe and heel plates, and braces for shoes. L. Weinstein. 278,509; Dec. 23; Serial No. 293,759; published Oct. 7, 1930.
Tubes for gasoline tanks, Fill. Davis Welding & Manufacturing Company, The. 278,557; Dec. 23; Serial No. 304,451; published Oct. 7, 1930.
Valves, Automatic air. New Era Aluminum Co., The. 278,555; Dec. 23; Serial No. 304,694; published Oct. 7, 1930.

CLASS 14

Metal, Sheet. Cincinnati Sheet Metal & Roofing Company. 81,591; renewed Apr. 25, 1931.

CLASS 15

Axle grease and lubricating grease. Red "C" Oil M'f'g. Co. 80,152; renewed Nov. 8, 1930.

CLASS 16

Paints, varnishes, lacquers, etc. Payson Varnish Co., The. 278,562–3; Dec. 23; Serial Nos. 302,829–30; published Oct. 7, 1930.
Paste in the nature of a kalsomine, Dry-base. Alabastine Company. 278,534; Dec. 23; Serial No. 302,878; published Oct. 7, 1930.
Polish, Furniture. P. Strauss. 278,667; Dec. 23.
Polishes. W. W. Culbertson & Son. 278,574; Dec. 23; Serial No. 298,921; published Oct. 7, 1930.
Varnish, paints, etc. Hoyt Brothers, Inc. 278,573; Dec. 23; Serial No. 298,944; published Oct. 7, 1930.

CLASS 19.

Airplanes, seaplanes, etc., and structural parts thereof. Grover Loening Company, Inc. 278,561; Dec. 23; Serial No. 303,809; published Oct. 7, 1930.
Vehicles and constructive parts thereof, Motor. Ward La France Truck Corporation. 278,671; Dec. 23.
Wipers, Windshield. R. N. Colley. 278,559; Dec. 23; Serial No. 304,272; published Oct. 7, 1930.

CLASS 21

Agitators, parts thereof, and electric motors therefor, Electrically-driven. S. Alsop. 278,683; Dec. 23.
Control system for direct-current motors, Unitary. Cutler-Hammer, Inc. 278,665; Dec. 23; Serial No. 300,262; published July 8, 1930.
Electrical conductors, Covered. Splitdorf Electrical Company. 278,564; Dec. 23; Serial No. 302,073; published Aug. 12, 1930.
Insulating varnishes and compounds. John C. Dolph Co. 81,510; renewed Apr. 18, 1931.

CLASS 22

Athletic goods. Wright & Ditson. 35,983; renewed Feb. 26, 1931.
Baseball game. H. N. Kopple. 278,686; Dec. 23.
Cards, Playing. Russell Playing Card Company. 278,638; Dec. 23; Serial No. 303,823; published Oct. 7, 1930.
Dolls. Sears, Roebuck and Co. 278,685; Dec. 23.
Dolls and animals, and stuffed toys, Stuffed. Gre-Poir, Inc. 278,609; Dec. 23; Serial No. 301,342; published Oct. 7, 1930.
Game, Board. E. H. Lambotte. 278,640; Dec. 23; Serial No. 303,968; published Oct. 7, 1930.
Golf clubs. Kroydon Company. 278,565; Dec. 23; Serial No. 305,135; published Oct. 7, 1930.
Stilts. E. J. Fellman. 278,567; Dec. 23; Serial No. 305,001; published Oct. 7, 1930.
Supports for golf bags. H. B. G. Galt. 278,645; Dec. 23; Serial No. 304,321; published Oct. 7, 1930.
Toys, Aeroplane, glider, and vehicular. C. Bergmann, 278,553; Dec. 23; Serial No. 304,397; published Oct. 17, 1930.

CLASS 23

Tools or utensils, kitchen and household. R. Wallace & Sons Mfg., Co. 278,603; Dec. 23; Serial No. 249,559; published Aug. 2, 1927.

CLASS 26

Photographic paper and plates. Dr. Lilienfeld & Co. 35,771; renewed Jan. 15, 1931.

CLASS 28

Stones, Precious, synthetic, and imitation. J. L. Levere. 278,668; Dec. 23.

CLASS 29

Brushes, Hair and tooth. Julius Schmid, Inc. 81,304; renewed Mar. 21, 1931.
Mops, Cotton. J. P. Nawrath. 81,476; renewed Apr. 11, 1931.

CLASS 31

Refrigerators and refrigerating machinery. Holbrook, Merrill & Stetson, Inc. 278,536; Dec. 23; Serial No. 305,223; published Oct. 7, 1930.

CLASS 33

Glassware. Cambridge Glass Co. 278,643; Dec. 23; Serial No. 304,235; published Oct. 7, 1930.

CLASS 34

Gas-burning appliances. Surface Combustion Co. Incorporated, The. 278,558; Dec. 23; Serial No. 304,298; published Oct. 7, 1930.
Heater, Radiant gas. Ray-Glo Corporation, The. 278,547; Dec. 23; Serial No. 291,739; published Jan. 7, 1930.
Heaters, Water. Western Water Heater Corp. Ltd. 278,591; Dec. 23; Serial No. 299,358; published Oct. 7, 1930.
Lamps, oil containers, etc., Hurricane. H. Nier. 278,522; Dec. 23; Serial No. 295,437; published Oct. 7, 1930.
Pyroxylin coated or impregnated fabrics made into troughs and tubes. E. I. du Pont de Nemours and Company. 278,684; Dec. 23.
Wicking, Cotton lamp. R. Bishop. 81,321; renewed Mar. 28, 1931.

CLASS 37

Books, notebooks, and loose-leaf binders, Composition. S. H. Kress & Co. 278,587; Dec. 23; Serial No. 300,135; published Oct. 7, 1930.
Envelopes and book covers, Filing. George Seelman & Sons Co. 278,519; Dec. 23; Serial No. 296,449; published Oct. 7, 1930.
Paper. Rag Content Paper Manufacturers. 278,516; Dec. 23; Serial No. 296,922; published Oct. 7, 1930.
Paper, Bond. M. P. Basso & Co. 278,637; Dec. 23; Serial No. 303,798; published Oct. 7, 1930.
Paper towels and napkins, toilet paper, and colored crepe paper. Fort Howard Paper Company. 278,639; Dec. 23; Serial No. 303,960; published Oct. 7, 1930.
Pens and parts thereof, Fountain. S. M. Sager. 278,576; Dec. 23; Serial No. 298,716; published Oct. 7, 1930.
Pens, pencils, and combination pens and pencils. Pen-O-Pencil Company. 278,602; Dec. 23; Serial No. 267,991; published Mar. 25, 1930.
Tablets, loose-leaf practice paper, notebook filler paper, and composition books. A. N. Palmer Company. 278,572; Dec. 23. Serial No. 304,424; published Oct. 7, 1930.

CLASS 38

House organ. Sussman, Wormser & Company. 278,566; Dec. 23; Serial No. 305,058; published Oct. 7, 1930.
Magazine. Fox West Coast Theatres. 278,644; Dec. 23; Serial No. 304,280; published Oct. 7, 1930.
Magazine and house organ. Lockwood Greene Engineers Inc. 278,641; Dec. 23; Serial No. 304,151; published Oct. 7, 1930.
Maps and road guides, Auto. L. Engel. 278,544; Dec. 23; Serial No. 285,447; published Oct. 7, 1930.
Pamphlet, Recipe. Italian Vineyards Co. 278,608; Dec. 23; Serial No. 301,938; published Oct. 7, 1930.
Periodical. Blum's Almanac Syndicate. 278,569; Dec. 23; Serial No. 304,716; published Oct. 7, 1930.
Periodical. Southern Planter Publishing Co. 81,233; renewed Mar. 14, 1931.

Publication. Chicago Retail Druggists' Association. 278,570; Dec. 23; Serial No. 304,649; published Oct. 7, 1930.
Publication. Title for. Facts Publishing Company. 278,646; Dec. 23; Serial No. 304,370; published Oct. 7, 1930.

CLASS 39

Blouses, shirts, and nightshirts, etc., Men's and boys'. Shrage & Pines. 278,520; Dec. 23; Serial No. 295,906; published Sept. 30, 1930.
Boots and shoes. Jordan, Marsh & Co. 35,128; renewed Sept. 25, 1930.
Cloaks, suits, dresses, etc. Carson Pirie Scott & Co. 278,614; Dec. 23; Serial No. 304,082; published Sept. 30, 1930.
Clothing. B. W. Harris Manufacturing Company. 278,514; Dec. 23; Serial No. 297,078; published Sept. 30, 1930.
Clothing, Kirby, Block & Fischer, Inc. 278,623; Dec. 23; Serial No. 301,947; published Sept. 30, 1930.
Clothing and furnishing goods. Club & Campus Publishing Co. 278,517; Dec. 23; Serial No. 296,632; published Oct. 7, 1930.
Clothing, Men's. Outlet Company. 278,552; Dec. 23; Serial No. 288,866; published Nov. 5, 1929.
Coats and suits. Isman & Bernstein, Inc. 278,675; Dec. 23.
Coats, suits, and dresses. Baum Kravat & Baum. 278,505; Dec. 23; Serial No. 304,307; published Oct. 7, 1930.
Coats, suits, and dresses. Nobility Dress Co. Inc. 278,673; Dec. 23.
Coats, suits, and dresses, Women's. S. Gittelman. 278,666; Dec. 23.
Coats, vests, trousers, etc. J. Schoeneman, Incorporated. 278,658; Dec. 23; Serial No. 304,016; published Oct. 7, 1930.
Coats, vests, trousers, etc. J. Schoeneman, Incorporated. 278,691; Dec. 23.
Collars. M. I. Halperin. 278,624; Dec. 23; Serial No. 302,633; published Oct. 7, 1930.
Collars. Lakewood Shirt Corporation. 278,688; Dec. 23.
Collars, shirts, and underwear. Enro Shirt Company. 278,548; Dec. 23; Serial No. 291,502; published Jan. 7, 1930.
Corsets and ladies' outer clothing. Mood. 78,625; renewed June 28, 1930.
Dresses. Max Wiesen & Sons Co. Inc. 278,680; Dec. 23.
Dresses, Ladies'. Lyric Dress Co. 278,679; Dec. 23.
Frocks, gowns, and dresses. Thomas Posner & Bro. 278,629; Dec. 23; Serial No. 303,255; published Sept. 30, 1930.
Furnishings, Men's. J. Danerbirsch. 278,689; Dec. 23.
Gowns, dresses, skirts, etc. I. Magnin & Co. 278,625; Dec. 23; Serial No. 302,828; published Sept. 30, 1930.
Hats. Le Rae Hat Co. 278,507; Dec. 23; Serial No. 295,377; published Sept. 23, 1930.
Hose supporters, suspenders, and arm bands. Max Kaufman & Sons. 278,583; Dec. 23; Serial No. 300,526; published Sept. 23, 1930.
Hosiery. Berkshire Knitting Mills. 278,504; Dec. 23; Serial No. 304,308; published Oct. 7, 1930.
Hosiery. Berkshire Knitting Mills. 278,663–4; Dec. 23; Serial Nos. 303,830–1; published Sept. 30, 1930.
Hosiery. Burson Knitting Company. 278,657; Dec. 23; Serial No. 304,035; published Oct. 7, 1930.
Hosiery. Excelsior Mills. 278,613; Dec. 23; Serial No. 304,096; published Oct. 7, 1930.
Hosiery. Falls City Mills Co. 278,600; Dec. 23; Serial No. 270,631; published Oct. 30, 1928.
Hosiery. Walter Fred Hosiery Mills, Inc. 278,615; Dec. 23; Serial No. 304,078; published Oct. 7, 1930.
Hosiery. Walter Fred Hosiery Mills, Inc. 278,677; Dec. 23.
Hosiery. La Salle Hosiery Company. 278,607; Dec. 23; Serial No. 303,508; published Sept. 30, 1930.
Hosiery. Oscar Nebel Co. Inc. 278,605; Dec. 23; Serial No. 303,651; published Oct. 7, 1930.
Hosiery. Neustadter Brothers. 278,506; Dec. 23; Serial No. 304,210; published Oct. 7, 1930.
Hosiery. Northwest Hosiery Company. 278,656; Dec. 23; Serial No. 304,061; published Oct. 7, 1930.
Hosiery. John Wanamaker New York. 278,628; Dec. 23; Serial No. 303,018; published Oct. 7, 1930.
Hosiery. Westcott Hosiery Mills. 278,612; Dec. 23; Serial No. 304,172; published Oct. 7, 1930.
Hosiery and underwear. C. A. Cook. 278,622; Dec. 23; Serial No. 301,585; published Sept. 23, 1930.
Hosiery and underwear and brassières. W. S. Riddle Notion Co. 278,578; Dec. 23; Serial No. 298,514; published Oct. 7, 1930.
Hosiery, Silk. Dexdale Hosiery Mills. 278,588; Dec. 23; Serial No. 299,769; published Sept. 23, 1930.
Hosiery, underwear, and gloves. Sterling Silk Underwear mills. 278,593; Dec. 23; Serial No. 298,292; published Oct. 7, 1930.
Neckwear. W. Nuzum. 278,630; Dec. 23; Serial No. 303,296; published Sept. 30, 1930.
Overalls. Diary Publishing Corporation. 278,627; Dec. 23; Serial No. 302,936; published Sept. 30, 1930.
Overalls and work shirts. Heinemann Dry Goods Company. 278,503; Dec. 23; Serial No. 304,444; published Sept. 23, 1930.
Raincoats. United States Rubber Company. 278,632; Dec. 23; Serial No. 303,353; published Sept. 30, 1930.
Robes and pajamas, Night. Chock-Horowitz Co. 278,606; Dec. 23; Serial No. 303,563; published Oct. 7, 1930.
Shirts and pajamas. Goshen Shirt Mfg. Company. 278,626; Dec. 23; Serial No. 302,894; published Sept. 30, 1930.
Shirts, overalls, pants, etc., Work. Pyke Mfg. Co. 278,604; Dec. 23; Serial No. 303,699; published Sept. 30, 1930.
Shirts, suits, undershirts, etc. National Bellas Hess Co. Inc. 278,599; Dec. 23; Serial No. 274,885; published Oct. 7, 1930.
Shirts, sweat shirts, and undershirts, Men's woolen. Winsted Hosiery Company. 278,676; Dec. 23.
Slippers. National Bellas Hess Co. Inc. 278,601; Dec. 23; Serial No. 268,241; published Oct. 7, 1930.
Sports wear, neckwear, gloves, etc. Younker Brothers, Inc. 278,512; Dec. 23; Serial No. 297,113; published Oct. 7, 1930.
Suits and sweaters, Swimming. Olympia Knitting Mills, Inc. 278,661–2; Dec. 23; Serial No. 303,854–5; published Sept. 30, 1930.
Suits, coats, vests, and trousers. L. H. Manko. 278,545; Dec. 23; Serial No. 285,033; published Sept. 23, 1930.
Suits, pants, trousers, and knickers. M. Ficcio. 278,650; Dec. 23; Serial No. 304,002; published Oct. 7, 1930.
Undergarments. Step-In-All Underwear Corporation. 278,581; Dec. 23; Serial No. 300,828; published Oct. 7, 1930.
Undervests, corsets, sleeping suits, etc. J. P. Taylor & Co. 278,594; Dec. 23; Serial No. 286,962; published Sept. 30, 1930.
Underwear. Storyk Bros. 278,660; Dec. 23; Serial No. 303,977; published Sept. 30, 1930.
Underwear. Supreme Underwear Mills. 81,832; renewed May 9, 1931.
Underwear, Glove-silk. Luxite Silk Products Co. 278,631; Dec. 23; Serial No. 303,333; published Sept. 30, 1930.

CLASS 41

Umbrellas. Siegel, Rothschild-Gans Bros. Inc. 278,596; Dec. 23; Serial No. 284918; published Sept. 30, 1930.

CLASS 42

Cloth, Sign. Field, French & Company. 278,610; Dec. 23; Serial No. 293,524; published Oct. 7, 1930.
Cotton and linen piece goods. Trippe, Barker & Co. 81,180; renewed Mar. 7, 1931.
Cotton blankets. Avondale Mills. 278,642; Dec. 23; Serial No. 304,229; published Oct. 7, 1930.
Cotton piece goods. International Shoe Co. 278,568; Dec. 23; Serial No. 304,916; published Oct. 7, 1930.
Fabrics. H. Ernstberger & Co. 278,546; Dec. 23; Serial No. 292,444; published Aug. 12, 1930.
Flannelette diapers. May Department Stores Company. 278,636; Dec. 23; Serial No. 303,539; published Oct. 7, 1930.
Textile fabrics. Trippe, Barker & Co. 278,551; Dec. 23; Serial No. 289,219; published Oct. 7, 1930.
Textile rugs and carpets. Hugh Nelson-Columbia Carpet Mills, Inc. 278,687; Dec. 23.
Woolen piece good. Forstmann & Huffmann Company. 278,571; Dec. 23; Serial No. 304,548; published Oct. 7, 1930.

CLASS 43

Cotton, Spool. Blodgett & Orswell Co. 81,669; renewed May 2, 1931.

CLASS 44

Denture press, Artificial. American Hecolite Denture Corporation. 278,518; Dec. 23; Serial No. 295,883; published Apr. 1, 1930.
Molding material for dental purposes. K. Henning. 80,780–1; renewed Jan. 31, 1931.
Plastic materials, artificial dentures, etc., Dental. American Hecolite Denture Corporation. 278,550; Dec. 23; Serial No. 289,954; published Mar. 4, 1930.

CLASS 45

Beverages and ginger ale, Maltless. National Pepsi-Cola Corporation. 278,672; Dec. 23.
Beverages, Maltless. A. J. Canfield Co. 278,540; Dec. 23; Serial No. 304,993; published Oct. 7, 1930.
Beverages, Maltless. Miller Becker Co. 278,508; Dec. 23; Serial No. 294,166; published Oct. 7, 1930.
Beverages, Maltless. Red Raven Corporation. 278,530; Dec. 23; Serial No. 303,727; published Oct. 7, 1930.

CLASS 46

Alimentary pastes. Superior Macaroni Co. 278,611; Dec. 23; Serial No. 293,197; published Oct. 7, 1930.
Bonbons, chocolates, and candies. L. Bamberger & Co. 278,511; Dec. 23; Serial No. 297,291; published Oct. 7, 1930.
Cake mixture. Rejos Company. 278,529; Dec. 23; Serial No. 303,822; published Oct. 7, 1930.
Candy. Universal Candy Company. 278,579; Dec. 23; Serial No. 299,817; published Oct. 7, 1930.
Candy and maple syrup, Blend of rock. Rigney & Company. 81,744; renewed May 2, 1931.
Canned chicken broth, chicken roast, chicken loaf, etc. E. W. Bayes. 278,655; Dec. 23; Serial No. 303,090; published Oct. 7, 1930.
Canned cooked poultry. Klingen & Co., Incorporated. 278,513; Dec. 23; Serial No. 297,083; published June 17, 1930.

Perfumes, face and bath powder, powder and rouge compacts, etc. Gimbel Brothers, Inc. 278,682; Dec. 23.
Pharmaceutical Products. Dr. Lilienfeld & Co. 35,772; renewed Jan. 15, 1931.
Remedies for diseases of stomach and intestines. Ramón Saiz y Carlos. 35,634; renewed Dec. 25, 1930.
Remedy for the nerves of the brain. Farbwerke vorm. Meister Lucius & Brüning. 81,062; renewed Feb. 28, 1931.
Salve. J. R. Watkins Company. 278,681; Dec. 23.

CLASS 7

Rope, Manilla. Upson-Walton Company. 278,525; Dec. 23; Serial No. 304,437; published Oct. 7, 1930.

CLASS 9

Firecrackers. Pekin Fireworks Company. 278,533; Dec. 23; Serial No. 303,451; published Oct. 7, 1930.

CLASS 12

Cement, Refractory. E. J. Lavino and Company. 278,620; Dec. 23; Serial No. 304,564; published Oct. 7, 1930.
Coverings for floors, ceilings, etc. C. & E. Mahla. 35,997; renewed Mar. 5, 1931.
Doors, Sash, trim, etc. Byron Sash & Door Company. 278,580; Dec. 23; Serial No. 300,854; published Oct. 7, 1930.
Lime. Saginaw Lime & Stone Co. 278,618; Dec. 23; Serial No. 304,690; published Oct. 7, 1930.
Pipe-joint compounds. W. Mano. 278,621; Dec. 23; Serial No. 304,690; published Oct. 7, 1930.
Studding, plaster board and plaster metal. Simplex Steel Products Company. 278,633; Dec. 23; Serial No. 303,790; published Oct. 7, 1930.

CLASS 13

Hinges and hasps. Stanley Works. 278,556; Dec. 23; Serial No. 304,642; published Oct. 7, 1930.
Hollow ware, coffee urns, etc. Württembergische Metallwarenfabrik. 278,510; Dec. 23; Serial No. 297,463; published Oct. 7, 1930.
Needles used in the valves of oil-burning stoves, Heat-resisting. Torrington Company. 278,560; Dec. 23; Serial No. 304,114; published Oct. 7, 1930.
Tanks and hinged seats for water-closets, Flushing. Knott-Van Arnam Manufacturing Co. 81,082; renewed Feb. 28, 1931.
Toe and heel plates, and braces for shoes. L. Weinstein. 278,509; Dec. 23; Serial No. 293,759; published Oct. 7, 1930.
Tubes for gasoline tanks, Fill. Davis Welding & Manufacturing Company, The. 278,557; Dec. 23; Serial No. 304,451; published Oct. 7, 1930.
Valves, Automatic air. New Era Aluminum Co., The. 278,555; Dec. 23; Serial No. 304,694; published Oct. 7, 1930.

CLASS 14

Metal, Sheet. Cincinnati Sheet Metal & Roofing Company. 81,591; renewed Apr. 25, 1931.

CLASS 15

Axle grease and lubricating grease. Red "C" Oil M'f'g. Co. 80,152; renewed Nov. 8, 1930.

CLASS 16

Paints, varnishes, lacquers, etc. Payson Varnish Co., The. 278,562–3; Dec. 23; Serial Nos. 302,829–30; published Oct. 7, 1930.
Paste in the nature of a kalsomine, Dry-base. Alabastine Company. 278,534; Dec. 23; Serial No. 302,878; published Oct. 7, 1930.
Polish, Furniture. P. Strauss. 278,667; Dec. 23.
Polishes. W. W. Culbertson & Son. 278,574; Dec. 23; Serial No. 298,921; published Oct. 7, 1930.
Varnish, paints, etc. Hoyt Brothers, Inc. 278,573; Dec. 23; Serial No. 298,944; published Oct. 7, 1930.

CLASS 19.

Airplanes, seaplanes, etc., and structural parts thereof. Grover Loening Company, Inc. 278,561; Dec. 23; Serial No. 303,809; published Oct. 7, 1930.
Vehicles and constructive parts thereof, Motor. Ward La France Truck Corporation. 278,671; Dec. 23.
Wipers, Windshield. R. N. Colley. 278,559; Dec. 23; Serial No. 304,272; published Oct. 7, 1930.

CLASS 21

Agitators, parts thereof, and electric motors therefor, Electrically-driven. S. Alsop. 278,683; Dec. 23.
Control system for direct-current motors, Unitary. Cutler-Hammer, Inc. 278,665; Dec. 23; Serial No. 300,262; published July 8, 1930.
Electrical conductors, Covered. Splitdorf Electrical Company. 278,564; Dec. 23; Serial No. 302,073; published Aug. 12, 1930.
Insulating varnishes and compounds. John C. Dolph Co. 81,510; renewed Apr. 18, 1931.

CLASS 22

Athletic goods. Wright & Ditson. 35,983; renewed Feb. 26, 1931.
Baseball game. H. N. Kopple. 278,686; Dec. 23.
Cards, Playing. Russell Playing Card Company. 278,638; Dec. 23; Serial No. 303,823; published Oct. 7, 1930.
Dolls. Sears, Roebuck and Co. 278,685; Dec. 23.
Dolls and animals, and stuffed toys, Stuffed. Gre-Poir, Inc. 278,609; Dec. 23; Serial No. 301,342; published Oct. 7, 1930.
Game, Board. E. H. Lambotte. 278,640; Dec. 23; Serial No. 303,968; published Oct. 7, 1930.
Golf clubs. Kroydon Company. 278,565; Dec. 23; Serial No. 305,135; published Oct. 7, 1930.
Stilts. E. J. Fellman. 278,567; Dec. 23; Serial No. 305,001; published Oct. 7, 1930.
Supports for golf bags. H. B. G. Galt. 278,645; Dec. 23; Serial No. 304,321; published Oct. 7, 1930.
Toys, Aeroplane, glider, and vehicular. C. Bergmann, 278,553; Dec. 23; Serial No. 304,397; published Oct. 17, 1930.

CLASS 23

Tools or utensils, kitchen and household. R. Wallace & Sons Mfg., Co. 278,603; Dec. 23; Serial No. 249,559; published Aug. 2, 1927.

CLASS 26

Photographic paper and plates. Dr. Lilienfeld & Co. 35,771; renewed Jan. 15, 1931.

CLASS 28

Stones, Precious, synthetic, and imitation. J. L. Levere. 278,068; Dec. 23.

CLASS 29

Brushes, Hair and tooth. Julius Schmid, Inc. 81,304; renewed Mar. 21, 1931.
Mops, Cotton. J. P. Nawrath. 81,476; renewed Apr. 11, 1931.

CLASS 31

Refrigerators and refrigerating machinery. Holbrook, Merrill & Stetson, Inc. 278,536; Dec. 23; Serial No. 305,223; published Oct. 7, 1930.

CLASS 33

Glassware. Cambridge Glass Co. 278,643; Dec. 23; Serial No. 304,235; published Oct. 7, 1930.

CLASS 34

Gas-burning appliances. Surface Combustion Co. Incorporated, The. 278,558; Dec. 23; Serial No. 304,298; published Oct. 7, 1930.
Heater, Radiant gas. Ray-Glo Corporation, The. 278,547; Dec. 23; Serial No. 291,739; published Jan. 7, 1930.
Heaters, Water. Western Water Heater Corp. Ltd. 278,591; Dec. 23; Serial No. 299,358; published Oct. 7, 1930.
Lamps, oil containers, etc., Hurricane. H. Nier. 278,522; Dec. 23; Serial No. 295,437; published Oct. 7, 1930.
Pyroxylin coated or impregnated fabrics made into troughs and tubes. E. I. du Pont de Nemours and Company. 278,684; Dec. 23.
Wicking, Cotton lamp. R. Bishop. 81,321; renewed Mar. 28, 1931.

CLASS 37

Books, notebooks, and loose-leaf binders, Composition. S. H. Kress & Co. 278,587; Dec. 23; Serial No. 300,135; published Oct. 7, 1930.
Envelopes and book covers, Filing. George Seelman & Sons Co. 278,519; Dec. 23; Serial No. 296,449; published Oct. 7, 1930.
Paper. Rag Content Paper Manufacturers. 278,516; Dec. 23; Serial No. 296,922; published Oct. 7, 1930.
Paper, Bond. M. P. Basso & Co. 278,637; Dec. 23; Serial No. 303,798; published Oct. 7, 1930.
Paper towels and napkins, toilet paper, and colored crepe paper. Fort Howard Paper Company. 278,639; Dec. 23; Serial No. 303,960; published Oct. 7, 1930.
Pens and parts thereof, Fountain. S. M. Sager. 278,576; Dec. 23; Serial No. 298,716; published Oct. 7, 1930.
Pens, pencils, and combination pens and pencils. Pen-O-Pencil Company. 278,602; Dec. 23; Serial No. 267,991; published Mar. 25, 1930.
Tablets, loose-leaf practice paper, notebook filler paper, and composition books. A. N. Palmer Company. 278,572; Dec. 23. Serial No. 304,424; published Oct. 7, 1930.

CLASS 38

House organ. Sussman, Wormser & Company. 278,566; Dec. 23; Serial No. 305,058; published Oct. 7, 1930.
Magazine. Fox West Coast Theatres. 278,644; Dec. 23; Serial No. 304,280; published Oct. 7, 1930.
Magazine and house organ. Lockwood Greene Engineers Inc. 278,641; Dec. 23; Serial No. 304,151; published Oct. 7, 1930.
Maps and road guides, Auto. L. Engel. 278,544; Dec. 23; Serial No. 285,447; published Oct. 7, 1930.
Pamphlet, Recipe. Italian Vineyards Co. 278,608; Dec. 23; Serial No. 301,938; published Oct. 7, 1930.
Periodical. Blum's Almanac Syndicate. 278,569; Dec. 23; Serial No. 304,716; published Oct. 7, 1930.
Periodical. Southern Planter Publishing Co. 81,233; renewed Mar. 14, 1931.

Publication. Chicago Retail Druggists' Association. 278,570; Dec. 23; Serial No. 304,649; published Oct. 7, 1930.
Publication, Title for. Facts Publishing Company. 278,646; Dec. 23; Serial No. 304,370; published Oct. 7, 1930.

CLASS 39

Blouses, shirts, and nightshirts, etc., Men's and boys'. Shrage & Pines. 278,520; Dec. 23; Serial No. 295,906; published Sept. 30, 1930.
Boots and shoes. Jordan, Marsh & Co. 35,128; renewed Sept. 25, 1930.
Cloaks, suits, dresses, etc. Carson Pirie Scott & Co. 278,614; Dec. 23; Serial No. 304,082; published Sept. 30, 1930.
Clothing. B. W. Harris Manufacturing Company. 278,514; Dec. 23; Serial No. 297,078; published Sept. 30, 1930.
Clothing, Kirby, Block & Fischer, Inc. 278,623; Dec. 23; Serial No. 301,947; published Sept. 30, 1930.
Clothing and furnishing goods. Club & Campus Publishing Co. 278,517; Dec. 23; Serial No. 296,632; published Oct. 7, 1930.
Clothing, Men's. Outlet Company. 278,552; Dec. 23; Serial No. 288,866; published Nov. 5, 1929.
Coats and suits. Isman & Bernstein, Inc. 278,675; Dec. 23.
Coats, suits, and dresses. Baum Kravat & Baum. 278,505; Dec. 23; Serial No. 304,307; published Oct. 7, 1930.
Coats, suits, and dresses. Nobility Dress Co. Inc. 278,673; Dec. 23.
Coats, suits, and dresses, Women's. S. Gittelman. 278,666; Dec. 23.
Coats, vests, trousers, etc. J. Schoeneman, Incorporated. 278,658; Dec. 23; Serial No. 304,016; published Oct. 7, 1930.
Coats, vests, trousers, etc. J. Schoeneman, Incorporated. 278,691; Dec. 23.
Collars. M. I. Halperin. 278,624; Dec. 23; Serial No. 302,633; published Oct. 7, 1930.
Collars. Lakewood Shirt Corporation. 278,688; Dec. 23.
Collars, shirts, and underwear. Enro Shirt Company. 278,548; Dec. 23; Serial No. 291,502; published Jan. 7, 1930.
Corsets and ladies' outer clothing. Mood. 78,625; renewed June 28, 1930.
Dresses. Max Wiesen & Sons Co. Inc. 278,680; Dec. 23.
Dresses, Ladies'. Lyric Dress Co. 278,679; Dec. 23.
Frocks, gowns, and dresses. Thomas Posner & Bro. 278,629; Dec. 23; Serial No. 303,255; published Sept. 30, 1930.
Furnishings, Men's. J. Danerhirsch. 278,689; Dec. 23.
Gowns, dresses, skirts, etc. I. Magnin & Co. 278,625; Dec. 23; Serial No. 302,828; published Sept. 30, 1930.
Hats. Le Rae Hat Co. 278,507; Dec. 23; Serial No. 295,377; published Sept. 23, 1930.
Hose supporters, suspenders, and arm bands. Max Kaufman & Sons. 278,583; Dec. 23; Serial No. 300,526; published Sept. 23, 1930.
Hosiery, Berkshire Knitting Mills. 278,504; Dec. 23; Serial No. 304,308; published Oct. 7, 1930.
Hosiery. Berkshire Knitting Mills. 278,663–4; Dec. 23; Serial Nos. 303,830–1; published Sept. 30, 1930.
Hosiery. Burson Knitting Company. 278,657; Dec. 23; Serial No. 304,035; published Oct. 7, 1930.
Hosiery. Excelsior Mills. 278,613; Dec. 23; Serial No. 304,096; published Oct. 7, 1930.
Hosiery. Falls City Mills Co. 278,600; Dec. 23; Serial No. 270,631; published Oct. 30, 1928.
Hosiery. Walter Fred Hosiery Mills, Inc. 278,615; Dec. 23; Serial No. 304,078; published Oct. 7, 1930.
Hosiery. Walter Fred Hosiery Mills, Inc. 278,677; Dec. 23.
Hosiery. La Salle Hosiery Company. 278,607; Dec. 23; Serial No. 303,508; published Sept. 30, 1930.
Hosiery. Oscar Nebel Co. Inc. 278,605; Dec. 23; Serial No. 303,651; published Oct. 7, 1930.
Hosiery. Neustadter Brothers. 278,506; Dec. 23; Serial No. 304,210; published Oct. 7, 1930.
Hosiery. Northwest Hosiery Company. 278,656; Dec. 23; Serial No. 304,061; published Oct. 7, 1930.
Hosiery. John Wanamaker New York. 278,628; Dec. 23; Serial No. 303,018; published Oct. 7, 1930.
Hosiery. Westcott Hosiery Mills. 278,612; Dec. 23; Serial No. 304,172; published Oct. 7, 1930.
Hosiery and underwear. C. A. Cook. 278,622; Dec. 23; Serial No. 301,585; published Sept. 23, 1930.
Hosiery and underwear and brassières. W. S. Riddle Notion Co. 278,578; Dec. 23; Serial No. 298,514; published Oct. 7, 1930.
Hosiery, Silk. Dexdale Hosiery Mills. 278,588; Dec. 23; Serial No. 299,769; published Sept. 23, 1930.
Hosiery, underwear, and gloves. Sterling Silk Underwear mills. 278,593; Dec. 23; Serial No. 298,292; published Oct. 7, 1930.
Neckwear. W. Nuzum. 278,630; Dec. 23; Serial No. 303,296; published Sept. 30, 1930.
Overalls. Diary Publishing Corporation. 278,627; Dec. 23; Serial No. 302,936; published Sept. 30, 1930.
Overalls and work shirts. Heinemann Dry Goods Company. 278,503; Dec. 23; Serial No. 304,444; published Sept. 23, 1930.
Raincoats. United States Rubber Company. 278,632; Dec. 23; Serial No. 303,353; published Sept. 30, 1930.
Robes and pajamas, Night. Chock-Horowitz Co. 278,606; Dec. 23; Serial No. 303,563; published Oct. 7, 1930.
Shirts and pajamas. Goshen Shirt Mfg. Company. 278,626; Dec. 23; Serial No. 302,894; published Sept. 30, 1930.
Shirts, overalls, pants, etc., Work. Pyke Mfg. Co. 278,604; Dec. 23; Serial No. 303,699; published Sept. 30, 1930.
Shirts, suits, undershirts, etc. National Bellas Hess Co. Inc. 278,599; Dec. 23; Serial No. 274,885; published Oct. 7, 1930.
Shirts, sweat shirts, and undershirts, Men's woolen. Winsted Hosiery Company. 278,676; Dec. 23.
Slippers. National Bellas Hess Co. Inc. 278,601; Dec. 23; Serial No. 268,241; published Oct. 7, 1930.
Sports wear, neckwear, gloves, etc. Younker Brothers, Inc. 278,512; Dec. 23; Serial No. 297,113; published Oct. 7, 1930.
Suits and sweaters, Swimming. Olympia Knitting Mills, Inc. 278,661–2; Dec. 23; Serial No. 303,854–5; published Sept. 30, 1930.
Suits, coats, vests, and trousers. L. H. Manko. 278,545; Dec. 23; Serial No. 285,033; published Sept. 23, 1930.
Suits, pants, trousers, and knickers. M. Ficcio. 278,650; Dec. 23; Serial No. 304,002; published Oct. 7, 1930.
Undergarments. Step-In-All Underwear Corporation. 278,581; Dec. 23; Serial No. 300,828; published Oct. 7, 1930.
Undervests, corsets, sleeping suits, etc. J. P. Taylor & Co. 278,594; Dec. 23; Serial No. 286,962; published Sept. 30, 1930.
Underwear. Storyk Bros. 278,660; Dec. 23; Serial No. 303,977; published Sept. 30, 1930.
Underwear. Supreme Underwear Mills. 81,832; renewed May 9, 1931.
Underwear, Glove-silk. Luxite Silk Products Co. 278,631; Dec. 23; Serial No. 303,333; published Sept. 30, 1930.

CLASS 41

Umbrellas. Siegel, Rothschild-Gans Bros. Inc. 278,596; Dec. 23; Serial No. 284918; published Sept. 30, 1930.

CLASS 42

Cloth, Sign. Field, French & Company. 278,610; Dec. 23; Serial No. 293,524; published Oct. 7, 1930.
Cotton and linen piece goods. Trippe, Barker & Co. 81,180; renewed Mar. 7, 1931.
Cotton blankets. Avondale Mills. 278,642; Dec. 23; Serial No. 304,229; published Oct. 7, 1930.
Cotton piece goods. International Shoe Co. 278,568; Dec. 23; Serial No. 304,916; published Oct. 7, 1930.
Fabrics. H. Ernstberger & Co. 278,546; Dec. 23; Serial No. 292,444; published Aug. 12, 1930.
Flannelette diapers. May Department Stores Company. 278,636; Dec. 23; Serial No. 303,539; published Oct. 7, 1930.
Textile fabrics. Trippe, Barker & Co. 278,551; Dec. 23; Serial No. 289,219; published Oct. 7, 1930.
Textile rugs and carpets. Hugh Nelson-Columbia Carpet Mills, Inc. 278,687; Dec. 23.
Woolen piece good. Forstmann & Huffmann Company. 278,571; Dec. 23; Serial No. 304,548; published Oct. 7, 1930.

CLASS 43

Cotton, Spool. Blodgett & Orswell Co. 81,669; renewed May 2, 1931.

CLASS 44

Denture press, Artificial. American Hecolite Denture Corporation. 278,518; Dec. 23; Serial No. 295,883; published Apr. 1, 1930.
Molding material for dental purposes. K. Henning. 80,780–1; renewed Jan. 31, 1931.
Plastic materials, artificial dentures, etc., Dental. American Hecolite Denture Corporation. 278,550; Dec. 23; Serial No. 289,954; published Mar. 4, 1930.

CLASS 45

Beverages and ginger ale, Maltless. National Pepsi-Cola Corporation. 278,672; Dec. 23.
Beverages, Maltless. A. J. Canfield Co. 278,540; Dec. 23; Serial No. 304,993; published Oct. 7, 1930.
Beverages, Maltless. Miller Becker Co. 278,508; Dec. 23; Serial No. 294,166; published Oct. 7, 1930.
Beverages, Maltless. Red Raven Corporation. 278,530; Dec. 23; Serial No. 303,727; published Oct. 7, 1930.

CLASS 46

Alimentary pastes. Superior Macaroni Co. 278,611; Dec. 23; Serial No. 293,197; published Oct. 7, 1930.
Bonbons, chocolates, and candies. L. Bamberger & Co. 278,511; Dec. 23; Serial No. 297,291; published Oct. 7, 1930.
Cake mixture. Rejos Company. 278,520; Dec. 23; Serial No. 303,822; published Oct. 7, 1930.
Candy. Universal Candy Company. 278,579; Dec. 23; Serial No. 299,817; published Oct. 7, 1930.
Candy and maple syrup, Blend of rock. Rigney & Company. 81,744; renewed May 2, 1931.
Canned chicken broth, chicken roast, chicken loaf, etc. E. W. Bayes. 278,655; Dec. 23; Serial No. 303,090; published Oct. 7, 1930.
Canned cooked poultry. Kingen & Co., Incorporated. 278,518; Dec. 23; Serial No. 297,083; published June 17, 1930.

Canned fruits, vegetables, fish, etc. Mexican Wholesale Grocery Co. 278,650; Dec. 23; Serial No. 301,981; published Sept. 30, 1930.
Carrot juice. F. Rossich. 278,586; Dec. 23; Serial No. 300,300; published Oct. 7, 1930.
Catsup, chili sauce, tomato juice, etc. E. Britchard, Inc. 278,617; Dec. 23; Serial No. 303,861; published Oct. 7, 1930.
Cheese. W. H. Rudolff. 278,523; Dec. 23; Serial No 304,634; published Sept. 30, 1930.
Cheese, Pimento and potted. J. L. Kraft & Bros. Company. 81,222; renewed Mar. 14, 1931.
Chicks, Hatchery. Iowa Master Breeders, Inc. 278,669; Dec. 23.
Coffee, canned fruits, canned lima beans, etc. Burke Grocery Company. 278,653; Dec. 23; Serial No. 302,623; published Sept. 30, 1930.
Coffee, peanut butter, vinegar, etc. Universal Manufacturing Company. 278,575; Dec. 23; Serial No. 298,866; published Oct. 7, 1930.
Confection. F. Cannarella. 278,635; Dec. 23; Serial No. 303,761; published Oct. 7, 1930.
Confectionery, Frozen. Bimbo Confectionery Company. 278,654; Dec. 23; Serial No. 302,721; published Oct. 7, 1930.
Confections, peanut butter, pepper, etc. John Ellis & Brother. 278,395; Dec. 23; Serial No. 286,556; published Oct. 7, 1930.
Eggs. W. L. Ronnerman. 278,528; Dec. 23; Serial No. 303,923; published Sept. 30, 1930.
Eggs. F. B. Shields. 278,541; Dec. 23; Serial No. 304,786; published Sept. 30, 1930.
Eggs. Valley Butter Company. 278,554; Dec. 23; Serial No. 302,138; published Oct. 7, 1930.
Eggs, baby chicks, and live poultry. A. E. Wright. 278,651; Dec. 23; Serial No. 302,172; published Sept. 30, 1930.
Extract, Malt. S. Banker. 278,649; Dec. 23; Serial No. 301,558; published Oct. 7, 1930.
Feed and white wheat flour. Cow and poultry. Graham Mill & Elevator Co. 278,584; Dec. 23; Serial No. 300,513; published Sept. 30, 1930.
Flour, Plain and self-rising. Maney Milling Company. 278,527; Dec. 23; Serial No. 304,154; published Oct. 7, 1930.
Flour, Wheat. Colorado Milling & Elevator Co. 278,521; Dec. 23; Serial No. 295,888; published Apr. 22, 1930.
Food, Prepared. Chappel Bros., Inc. 278,526; Dec. 23; Serial No. 304,188; published Sept. 30, 1930.
Food products. Jell-Well Dessert Company. 278,647; Dec. 23; Serial No. 301,038; published Oct. 7, 1930.
Food products, Canned and bottled. De Santos Fruit Packing Co. 278,549; Dec. 23; Serial No. 290,503; published Sept. 30, 1930.
Foods. Scudders-Gale Grocer Co. 81,635; renewed Apr. 25, 1931.
Ham. V. W. Joyner. 81,809; renewed May 9, 1931.
Ice cream and formed bodies of ice cream. Prince & Company. 278,652; Dec. 23; Serial No. 302,408; published Oct. 7, 1930.
Jelly powders, cider vinegar, tea, etc. Eavey Co. 278,597; Dec. 23; Serial No. 228,745; published Nov. 29, 1927.
Meals and flours of grains and vegetables, desiccated fruit and vegetables, cocoa, etc. Schüle-Hohenlohe A.-G. 278,590; Dec. 23; Serial No. 299,600; published Oct. 7, 1930.
Milk chocolate, sponge cake, doughnuts, etc. Vendi-Cater, Inc. 278,515; Dec. 23; Serial No. 296,934; published Sept. 30, 1930.
Molasses. American Molasses Co. of New York. 278,589; Dec. 23; Serial No. 299,667; published Oct. 7, 1930.
Pies. Mountain City Mill Co. 278,592; Dec. 23; Serial No. 298,455; published Sept. 30, 1930.
Potatoes, Irish. F. H. Vahlsing, Inc. 278,670; Dec. 23.
Rice. Lake Charles Rice Milling Company of Louisiana, Inc. 278,538; Dec. 23; Serial No. 305,046; published Oct. 7, 1930.
Sandwiches. J. G. Weidner. 278,531; Dec. 23; Serial No. 303,671; published Sept. 30, 1930.
Sauces and condiments, Vinous. L. Danglade et Fils. 278,648; Dec. 23; Serial No. 301,383; published Oct. 7, 1930.
Sausage, tripe with milk, chile con carne, etc., Vienna. Caldwell-Spence Company. 278,543; Dec. 23; Serial No. 286,222; published Oct. 7, 1930.
Sugar and syrup. Glucose Sugar Refining Co. 36,098; renewed Mar. 19, 1931.
Syrup, Cane. W. E. Sickel. 278,619; Dec. 23; Serial No. 304,349; published Sept. 30, 1930.
Syrup, Malt. Fecker Company. 278,616; Dec. 23; Serial No. 303,805; published Oct. 7, 1930.
Syrup, Malt. F. L. Linehan. 278,690; Dec. 23.
Syrup, Malt. Providence Malt Company. 278,634; Dec. 23; Serial No. 303,580; published Oct. 7, 1930.
Tea and coffee. Cloverdale Company. 81,253; renewed Mar. 21, 1931.

CLASS 48

Beverage, Malt. Louis F. Neuweiler's Sons. 278,537; Dec. 23; Serial No. 305,119; published Oct. 7, 1930.

CLASS 50

Package of toothbrush, tooth paste, and floss, Combination. R. H. Lieberthal. 278,674; Dec. 23.

ALPHABETICAL LIST OF LABELS

Bardell Viewpack No. 8. For Miniature Post Cards and Like Articles. J. C. Bardell. 38,394; Dec. 23.
Darlene Frocks. For Wash Dresses. A. F. Keating Co. Inc. 38,401; Dec. 23.
Dugan's Cup Cakes. For Cup Cakes. Dugan Brothers, Inc. 38,398; Dec. 23.
Dugan's Pecan Rolls. For Pecan Rolls. Dugan Brothers, Inc. 38,397; Dec. 23.
Gym-Nas-Tix. For Shoes. N. C. Browner. 38,395; Dec. 23.
Happy Bunny Sr. Pure Food Colors for Easter Eggs. For Easter-Egg Colors. Hal-Pern Mfg. Co. 38,405; Dec. 23.
Land O'Lakes. For Coffee. J. B. Hompe & Son. 38,400; Dec. 23.
Maltena. For Cereals. E. A. Erickson. 38,399; Dec. 23.
Moth Seal. For Mothproof Garment Bags. L. B. Co. 38,402; Dec. 23.
Paradise Fruit Cake. For Cake. Ward Baking Company. 38,410; Dec. 23.
Puritan Malt. For Malt Extract. Puritan Malt Extract Company. 38,406; Dec. 23.
Regal. For Oleomargarine. Regal Stores, Inc. 38,408; Dec. 23.
Roselane. For Cigars. E. J. Lieb. 38,403; Dec. 23.
Savery Savory Mushrooms. For Mushrooms. California Mushroom Company. 38,396; Dec. 23.
Shirriff's Good Morning Marmalade. For Marmalade. Shirriff's Limited. 38,409; Dec. 23.
Sonny South. For Wheat Food Cereal (Farine). Louisville Milling Company. 38,404; Dec. 23.
Standard Edge Grain Roofing Shingles. For Roofing Shingles. Red Cedar Shingle Bureau. 38,407; Dec. 23.

ALPHABETICAL LIST OF PRINTS

A Few at a Time (14–AO–1930). For Coffee. Hills Bros. 12,882; Dec. 23.
A Few at a Time (14–BN–1930). For Coffee. Hills Bros. 12,901; Dec. 23.
A Few Pounds at a Time (14–AS–1930). For Coffee. Hills Bros. 12,884; Dec. 23.
A Few Pounds at a Time (14–AX–1930). For Coffee. Hills Bros. 12,888; Dec. 23.
A Few Pounds at a Time (14–BB–1930). For Coffee. Hills Bros. 12,896; Dec. 23.
A Few Pounds at a Time (14–BF–1930). For Coffee. Hills Bros. 12,895; Dec. 23.
A Few Pounds at a Time (14–BK–1930). For Coffee. Hills Bros. 12,878; Dec. 23.
A Few Pounds at a Time. (14–BP–1930). For Coffee. Hills Bros. 12,903; Dec. 23.
A Little at a Time (14–AN–1930). For Coffee. Hills Bros. 12,875; Dec. 23.
A Little at a Time (14–AP–1930). For Coffee. Hills Bros. 12,881; Dec. 23.
A Little at a Time (14–AR–1930). For Coffee. Hills Bros. 12,883; Dec. 23.
A Little at a Time (14–AT–1930). For Coffee. Hills Bros. 12,885; Dec. 23.
A Little at a Time (14–AV–1930). For Coffee. Hills Bros. 12,886; Dec. 23.
A Little at a Time (14–AW–1930). For Coffee. Hills Bros. 12,887; Dec. 23.
A Little at a Time (14–AY–1930). For Coffee. Hills Bros. 12,889; Dec. 23.
A Little at a Time (14–AZ–1930). For Coffee. Hills Bros. 12,890; Dec. 23.
A Little at a Time (14–BD–1930). For Coffee. Hills Bros. 12,877; Dec. 23.
A Little at a Time (14–BD–1930). For Coffee. Hills Bros. 12,893; Dec. 23.
A Little at a Time (14–BE–1930). For Coffee. Hills Bros. 12,894; Dec. 23.
A Little at a Time (14–BG–1930). For Coffee. Hills Bros. 12,897; Dec. 23.
A Little at a Time (14–BH 1930). For Coffee. Hills Bros. 12,898; Dec. 23.
A Little at a Time (14–BL–1930). For Coffee. Hills Bros. 12,899; Dec. 23.

Careful Now! . . . Add That Cereal a Little at a Time (14–A–1930). For Coffee. Hills Bros. 12,915; Dec. 23.
Clark's. For Shirts. Clark's Dollar Stores Inc. 12,866; Dec. 23.
Clark's Dollar Stores. For Shirts. Clark's Dollar Stores, Inc. 12,867; Dec. 23.
Daggett's Chocolates. For Chocolates. Daggett Chocolate Company. 12,869; Dec. 23.
Don't Drown Your Roast, Baste it Often—a Little at a Time (14–W–1930). For Coffee. Hills Bros. 12,905; Dec. 23.
Don't take a Chance! Combine the Muffin Ingredients a Little at a Time (14–AD–1930). For Coffee. Hills Bros. 12,876; Dec. 23.
Every Grain of Rice is Cooked Perfectly if Added to the Boiling Water a Little at a Time (14–AA–1930). For Coffee. Hills Bros. 12,872; Dec. 23.
French-Fried Potatoes can be Done to a Turn if Cooked (14–T–1930). For Coffee. Hills Bros. 12,902; Dec. 23.
Here's the Vacuum Can That Holds Hills Bros. Coffee Roasted a Few Pounds at a Time (14–V–1930). For Coffee. Hills Bros. 12,904; Dec. 23.
He's Getting a Wonderful Start in Life. For Wheat Breakfast Food. Cream of Wheat Corporation. 12,868; Dec. 23.
Hill Bros' Vacuum Packing Process Seals in All the Flavor Produced by Roasting Coffee a Few Pounds at a Time (14–AE–1930). For Coffee. Hills Bros. 12,871; Dec. 23.
Hills Bros. Coffee Has a Flavor no Other Coffee Has Because it is Roasted (14–P–1930). For Coffee. Hills Bros. 12,911; Dec. 23.
Hills Bros. Coffee Has a Flavor no Other Coffee Has Because it is Roasted a Few Pounds at a Time (14–C–1930). For Coffee. Hills Bros. 12,913; Dec. 23.
Hills Bros. Coffee Has a Flavor no Other Coffee Has Because it is Roasted a Few Pounds at a Time (14–H–1930). For Coffee. Hills Bros. 12,908; Dec. 23.
Hills Bros. Have the Right Idea in Roasting Coffee . . . A Little at a Time (14–Y–1930). For Coffee. Hills Bros. 12,907; Dec. 23.
If You See the Arab it's Hills Bros. Coffee, Etc. (14–M–1930). For Coffee. Hills Bros. 12,909; Dec. 23.
If You See the Arab it's Hills Bros. Coffee—Roasted a Few Pounds at a Time (14–AB–1930). For Coffee. Hills Bros. 12,873; Dec. 23.
It's Risky to Cook a Lot of Doughnuts at Once . . . Cook Only a Few at a Time (14–N–1930). For Coffee. Hills Bros. 12,912; Dec. 23.
Mamma and Papa. For Malt Syrup. Jos. Schlitz Beverage Company. 12,919; Dec. 23.
No Chance for the Mayonnaise to Separate if You Add the Oil a Little at a Time (14–D–1930). For Coffee. Hills Bros. 12,914; Dec. 23.
Of all Coffee Trade-Marks only Hills Bros' Arab Guarantees Coffee Roasted a Few Pounds at a Time (14–AF–1930). For Coffee. Hills Bros. 12,880; Dec. 23.
One at a Time (14–BC–1930). For Coffee. Hills Bros. 12,892; Dec. 23.
One at a Time (14–BM–1930). For Coffee. Hills Bros. 12,900; Dec. 23.
Only a Little at a Time (14–BA–1930). For Coffee. Hills Bros. 12,891; Dec. 23.
Remember This in Making Pie Crust . . . Add the Water a Little at a Time (14–G–1930). For Coffee. Hills Bros. 12,879; Dec. 23.
Thanksgiving Greetings. For Lactogen, a Milk Product. Nestle's Milk Products, Inc. 12,918; Dec. 23.
The Best Rule in Jelly-Making—Add the Warm Sugar to the Fruit Syrup a Little at a Time (14–J–1930). For Coffee. Hills Bros. 12,917; Dec. 23.
The Most Luscious Chocolate Creams are Dipped by Hand (14–Z–1930). For Coffee. Hills Bros. 12,870; Dec. 23.
The Steak Tastes Better When it is Broiled on Each Side a Little at a Time (14–X–1930). For Coffee. Hills Bros. 12,906; Dec. 23.
28 Cake Recipes Say . . . Add the Sugar . . . Add the Flour . . . Add the Milk a Little at a Time (14–B–1930). For Coffee. Hills Bros. 12,916; Dec. 23.
You Can't Go Wrong in Making Biscuits if You Add the Milk Only a Little at a Time (14–Q–1930). For Coffee. Hills Bros. 12,910; Dec. 23.
You Won't Have Lumpy Gravy if You Add the Water a Little at a Time (14–AC–1930). For Coffee. Hills Bros. 12,874; Dec. 23.

CARNEGIE LIBRARY OF ATLANTA

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 23D DAY OF DECEMBER, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Adams, Henry, Plainfield, N. J. Atomizing jet nozzle. 1,785,802; Dec. 23.
Adams, Henry, Plainfield, N. J. Atomizing mixing nozzle. 1,785,803; Dec. 23.
Adams, Henry, Plainfield, N. J. Oil burning. 1,785,804; Dec. 23.
Adams, Henry, Plainfield, N. J. Method of and apparatus for atomizing fuel oil. 1,785,805; Dec. 23.
Adams, Raleigh J., Chicago, Ill. Boiler. 1,785,758; Dec. 23.
Adartcraft, Inc. (See Mayer, August, assignor.)
Ajax Manufacturing Company, The. (See Criley, William W., assignor.)
Alexander, Vincent S., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,785,725; Dec. 23.
Allen, James B., et al. (See Walker, Jerry S., assignor.)
Allen, W. D., Manufacturing Company. (See Steininger, William, assignor.)
Aluminum Company of America. (See Williams, J. C., and Greeman, assignors.)
Amberg, Walter E. (See Hallam, R. M., and Amberg.)
Ambrose, Ernest R., assignor to U. S. Safety Flange Company, Topeka, Kans. Structure of auxiliary flanges for automobile wheels. 1,786,389; Dec. 23.
American Air Filter Company. (See Jordahl, Anders, assignor.)
American Laundry Machinery Company, The. (See Carroll, Emil J., assignor.)
American Metal Company, The. (See Eppensteiner, William F., assignor.)
American Pearl Button Company. (See Knott, Harry H., assignor.)
American Rolling Mill Company, The. (See Freeze, Jonathan R., assignor.)
American Telephone and Telegraph Company. (See Crisson, George, assignor.)
American Telephone and Telegraph Company. (See Peterson, G. H., and Rhodes, assignors.)
American Telephone and Telegraph Company. (See Silent, Harold C., assignor.)
American Type Founders Company. (See Kelly, William M., assignor.)
Amico Company, The. (See Koplin, Harry, assignor.)
Amstutz, Willis J., Latty, Ohio. Vacuum brush. 1,786,384; Dec. 23.
Anderau, Walter. (See Straub, F., and Anderau.)
Anderson, Arvid E., Lansdowne, and F. D. King, Brookline, Pa., assignors to General Electric Company. Automatic switching system. 1,786,326; Dec. 23.
Anderson, Ellis B., Memphis, Tenn. Automobile handling device. 1,786,282; Dec. 23.
Andrews, David E., assignor of sixty one-hundredths to W. L. Stone, Detroit, Mich. Apparatus for forming hollow articles of cementitious material. 1,786,385; Dec. 23.
Ardern, James L., East Kew, Melbourne, Victoria, Australia. Automatic air-inlet valve for internal-combustion engines. 1,786,283; Dec. 23.
Arey, Fred C., Oak Park, Ill., assignor to J. W. Gleason, Pittsburgh, Pa., F. W. Bora, New York, N. Y., W. F. Freudenreich, Kenilworth, Ill., F. H. Chetlain, Chicago, Ill., and himself, trustees. Rotary spiral slitting cutter. 1,786,050; Dec. 23.
Armstrong Cork Company. (See Busch, Herman F., assignor.)
Armstrong, Harry M., Chicago, Ill. Hairpin. 1,785,885; Dec. 23.
Arneson, Arne. (See Hönningstad, A., Arneson, and Norheim.)
Arrowood, Milton W., Greenwich, Conn., assignor to Universal Engineers, Inc., Worcester, Mass. Furnace and method of burning fuel. Re17,908; Dec. 23.
Ashcroft, Edgar A., Waye House, near Ashburton, England. Extraction of tin from ores or materials containing tin. 1,786,386; Dec. 23.
Asmussen, August J., Detroit, Mich., assignor to Diamond Tool & Engineering Company. Compressor. 1,785,853; Dec. 23.
Auer, George S., Cleveland, Ohio. Hot-air-register construction. 1,785,993; Dec. 23.
Auteri, Michele, Milan, Italy, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemenstadt, near Berlin, Germany. Coin-collecting apparatus. 1,785,994; Dec. 23.
Automatic Guns, Inc. (See Hudson, Robert F., assignor.)
Baird, Archie M., deceased, and F. J. Partridge, M. L. Baird, administratrix, assignors to Baird Pneumatic Register Company, Topeka, Kans. Air-service control and register for pneumatic tires. 1,786,103; Dec. 23.
Baird, Mary L., administratrix. (See Baird, A. M., and Partridge.)
Baird Pneumatic Register Company. (See Baird, A. M., and Partridge, assignors.)
Baker, Bert F. (See Knox, H. A., and Baker.)
Baker, Frederick W., Stourbridge, England, assignor to Trinity Wheel Corporation, New York, N. Y. Wheel felly. 1,785,995; Dec. 23.
Baker, James C., assignor of one-third to R. L. Davis, sr., and one-third to A. J. Ohler, Lincoln, Nebr. Wrench. 1,785,925; Dec. 23.
Baker, Paul W., assignor to Wagner Electric Corporation, St. Louis, Mo. Brush holder. 1,785,996; Dec. 23.
Balash, Alexander, Vaux Hall, N. J. Air-regulating device for internal-combustion engines. 1,785,726; Dec. 23.
Barker, Ward T., Kansas City, Mo. Fan. 1,786,051; Dec. 23.
Barnes, George L. (See Logan, Oren E., assignor.)
Barrett Company, The. (See Miller, Stuart P., assignor.)
Barrett, Edgar. (See Brown, J., and Barrett.)
Barrett, Geoffrey F., Springfield, England, assignor to Norma-Hoffmann Bearings Corporation. Mountings of calender rolls and the like. 1,785,886; Dec. 23.
Bartlett, Frank M., Reading, and B. F. Hartwell, Winchester, Mass. Hat making. 1,786,327; Dec. 23.
Bassett Metal Goods Company, The. (See Stuart, Henry J., assignor.)
Batchelor, Landon, Lawrenceburg, Ind. Seed planter. 1,785,926; Dec. 23.
Batsel, Max C., Yonkers, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Radio receiving system. Re17,909; Dec. 23.
Battista, Donald A., Washington, D. C. Ice-cream cake and making same. 1,786,387; Dec. 23.
Bauer, Bruno, Vienna, Austria. Construction of the expansion joint of reenforced concrete structures. 1,786,284; Dec. 23.
Bauer, Max F., Geneva, Switzerland, assignor to Isothermos Corporation of America, New York, N. Y. Automatically lubricating journal box. 1,786,104; Dec. 23.
Bauermeister, Fred E., Columbus, Ohio. Steering-shaft lock. 1,786,186; Dec. 23.
Baumgartner, Fred, Muskegon, Mich. Pressure-control valve. 1,785,759; Dec. 23.
Bausch & Lomb Optical Company. (See Bouchard, Samuel E., assignor.)
Beasley, Albeon, Evansville, assignor of one-half to W. S. Jaco, deceased, Vanderburg County, Ind.; R. Coffman, administrator. Seal for shaft bearings. 1,785,806; Dec. 23.
Beaudry, Joseph, Somerset, Manitoba, Canada. Cultivator. 1,786,388; Dec. 23.
Becker, Aloysius W., assignor to Econoheet Company, Chicago, Ill. Space heater. Des. 82,870; Dec. 23.
Becker, Joseph, assignor to The Koppers Company, Pittsburg, Pa., Coke retort with quenching device and method for same. 1,785,760; Dec. 23.
Belknap, Frank L. (See Kirschbraun, Lester, assignor.)
Bell, John E., deceased, Brooklyn, N. Y. L. R. Bell, executrix. High-pressure boiler. 1,785,927; Dec. 23.
Bell, Lolar R., executrix. (See Bell, John E.)
Bendix Brake Company. (See Bendix, V., and Gallup, assignors.)
Bendix Brake Company. (See Norton, Raymond J., assignor.)
Bendix, Vincent, Chicago, Ill., and D. L. Gallup, South Bend, Ind., assignors to Bendix Brake Company, Chicago, Ill. Brake-operating mechanism. 1,785,854; Dec. 23.
Benjamin, John M., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Nailing machine. 1,785,928; Dec. 23.
Benner, Raymond C., Bayside, and N. K. Chaney, Kew Gardens, assignors, by mesne assignments, to Presto-O-Lite Storage Battery Corporation. Composite separator and making the same. 1,786,328; Dec. 23.
Beregkoff, Anatol P., Schenectady, N. Y., assignor to General Electric Company. Switchboard plug. 1,786,329; Dec. 23.
Bergquist, Charles H., assignor of one-half to E. A. Locke, Okmulgee, Okla. Counterbalance. 1,786,143; Dec. 23.
Berkeley, Laurence J., Cleveland, Ohio, assignor to W. M. Jenkins, trustee, Pittsburgh, Pa. Valve device. 1,786,330; Dec. 23.
Besch, Charles A., La Crosse, Wis. Humidifier for wall registers. 1,786,331; Dec. 23.
Beutel, Werner, assignor of one-half to R. Bohm, Bridgeport, Conn. Safety device for boilers. 1,786,144; Dec. 23.

Birdsboro Steel Foundry & Machine Company. (See Martin, Mark H., assignor.)
Birmingham, Earl B., et al. (See Carr, C. W., and Tripp, assignors.)
Bissell, Genevieve, administratrix. (See Bissell, Richard E.)
Bissell, Richard E., deceased, Cleveland, Ohio, by G. Bissell, administratrix, Lansing, Mich., assignor to Thompson Products, Incorporated, Cleveland, Ohio. Cooling-capsule-filled valve. 1,786,285; Dec. 23.
Blaw-Knox Company. (See Bradshaw, Grant D., assignor.)
Blecher, Boris, Philadelphia, Pa. Collar holder. Des. 82,895; Dec. 23.
Blecher, Carl, Berlin-Dahlem, Germany. Securing accurate color values in color printing and color photography. 1,785,997; Dec. 23.
Blondin, Michel C., Meudon, France, assignor, by mesne assignments, to Old Colony Distributing Company, Boston, Mass. Shaving brush. 1,786,224; Dec. 23.
Bohm, Robert. (See Beutel, Werner, assignor.)
Bone, Herbert L., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-car retarder. 1,786,286; Dec. 23.
Bonus Candy Corporation. (See Lanzi, Elmo G., assignor.)
Bora, Frank W., et al., trustees. (See Arey, Fred C., assignor.)
Bossbard, Arnold, Arbon, Switzerland, assignor to Sir James Farmer Norton & Company, Limited, Lancashire, England. Method and apparatus for stretching fabrics. 1,786,188; Dec. 23.
Bosworth, J. Graham. (See Gilbert, Charles B., assignor.)
Bouchard, Samuel E., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Spectacle frame. Des. 82,871; Dec. 23.
Bouchard, Samuel E., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,785,929; Dec. 23.
Boudette, Cornelius G., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,786,225; Dec. 23.
Bowersock, Wilber H., assignor to Rochester Folding Box Company, Rochester, N. Y. Corner-cushion-pad packing device. 1,786,189; Dec. 23.
Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Curtain fixture. 1,786,052; Dec. 23.
Boye, James H., Manufacturing Company. (See Boye, James H., assignor.)
Boykin, Burwell, jr., Beaumont, Tex. Support. 1,786,145; Dec. 23.
Bradley, Edgar R., Fargo, N. Dak. Quack-grass digger. 1,786,226; Dec. 23.
Bradley, Theodore F., Westfield, assignor to Ellis-Foster Company, Montclair, N. J. Resinous composition and making same. 1,785,930; Dec. 23.
Bradshaw, Aubrey O., Bluefield, W. Va. Tank-closure lock. 1,786,332; Dec. 23.
Bradshaw, Grant D., Pittsburgh, Pa., assignor to Blaw-Knox Company, Blawnox, Pa. Fluid separator. 1,785,931; Dec. 23.
Brainard Steel Corporation. (See Davis, Otis L., assignor.)
Branstad, Arthur J., Eau Claire, Wis. Razor-blade-vending machine casing. Des. 82,872; Dec. 23.
Brewer & Company. (See Roeg, Louis M., assignor.)
Briggs Manufacturing Company. (See Happone, Matt, assignor.)
Briggs Manufacturing Company. (See Marshall, William, assignor.)
Briggs Manufacturing Company. (See Marshall, W., and Camiener, assignors.)
Brigham, Charles W., Attleboro, Mass., assignor to C. G. King & Co., Inc., Providence, R. I. Shoe buckle. Des. 82,873; Dec. 23.
Brigham, Charles W., Attleboro, Mass., assignor to C. G. King & Co., Inc., Providence, R. I. Shoe buckle. Des. 82,874; Dec. 23.
Brigham, Charles W., Attleboro, Mass., assignor to C. G. King & Co., Inc., Providence, R. I. Shoe buckle. Des. 82,875; Dec. 23.
Brigham, Charles W., Attleboro, Mass., assignor to C. G. King & Co., Inc., Providence, R. I. Shoe buckle. Des. 82,876; Dec. 23.
Bright Star Battery Company. (See Koretzky, Harry M., assignor.)
Brogden, Ernest M., Pomona, assignor to Brogdex Company, Los Angeles, Calif. Apparatus for treating fruit and the like. 1,786,405; Dec. 23.
Brogdex Company. (See Brogden, Ernest M., assignor.)
Brokate, Clarence W. (See Heise, G. W., and Brokate.)
Brooke, Edward B., Birmingham, Ala. Jarring machine. 1,785,998; Dec. 23.
Brown, Arthur J. (See Ezdorf, R. R., and Brown.)
Brown, Arthur J., New York, N. Y., and R. R. Ezdorf, Washington, D. C. Dusting and spraying machine. 1,785,932; Dec. 23.
Brown, Arthur J., New York, N. Y., and R. R. Ezdorf, Washington, D. C. Dusting machine. 1,785,933; Dec. 23.
Brown Instrument Company, The. (See Brown, Richard P., assignor.)
Brown, James, and E. Barrett, St. Albans, Christchurch, New Zealand. Fuse cut-out for electric circuits. 1,786,333. Dec. 23.
Brown, Le Roy O., assignor to Justrite Manufacturing Company, Chicago, Ill. Lamp. Des. 82,877; Dec. 23.
Brown Lipe Gear Company. (See Peterson, Carl D., assignor.)
Brown, Richard P., assignor to The Brown Instrument Company, Philadelphia, Pa. Meter-controlled relay mechanism. 1,785,761; Dec. 23.
Bruggeman, Alphonse J., assignor to Fried-Osterman Company, Milwaukee, Wis. Glove. 1,786,227; Dec. 23.
Bryant Electric Company, The. (See Lofgren, Carl O. B., assignor.)
Bryce, James W., Bloomfield, N. J., assignor to The Tabulating Machine Company, Endicott, N. Y. Record-controlled printing mechanism. 1,785,999; Dec. 23.
Bucklein, Frank P., Los Angeles, Calif. Base to hold nozzles and supply pipes. 1,786,146; Dec. 23.
Buclon, Achille, Ales, France. Lubricating apparatus for the flanges of wheels of engines or vehicles traveling upon railway tracks. 1,786,334; Dec. 23.
Bullard Company, The. (See Bullard, Dudley B., assignor.)
Bullard Company, The. (See Bullard, Edward J., jr., assignor.)
Bullard, Dudley B., Southport, assignor to The Bullard Company, Bridgeport, Conn. Chuck. 1,786,147; Dec. 23.
Bullard, Edward P., jr., Stratford, assignor to The Bullard Company, Bridgeport, Conn. Station-type drilling and tapping machine. 1,786,148; Dec. 23.
Bulldog Electric Products Company. (See Frank, Harrison J. L., assignor.)
Bundy, Harry W., assignor, by mesne assignments, to Bundy Tubing Company, Detroit, Mich. Tinning apparatus. 1,785,762; Dec. 23.
Bundy, Harry W., assignor, by mesne assignments, to Bundy Tubing Company, Detroit, Mich. Condenser unit for mechanical refrigerators. 1,786,000; Dec. 23.
Bundy Tubing Company. (See Bundy, Harry W., assignor.)
Burger, Joseph, Brooklyn, N. Y. Shoe-heel cover. Des. 82,925; Dec. 23.
Burgess Battery Company. (See Schulte, Walter B., assignor.)
Burt, Romial, Montreal, Quebec, Canada. Oven. 1,785,763; Dec. 23.
Burtnett, Everett R., Santa Rosa, Calif. Internal-combustion engine. 1,786,287; Dec. 23.
Burton, Frank F., Mount Carmel, assignor to Winchester Repeating Arms Company, New Haven, Conn. Barrel stop for breakdown firearms. 1,785,764; Dec. 23.
Burton, Frank F., Mount Carmel, assignor to Winchester Repeating Arms Company, New Haven, Conn. Multiple-barrel firearm. 1,785,765; Dec. 23.
Busch, Herman F., Millvale, assignor to Armstrong Cork Company, Pittsburgh, Pa. Friction surface. 1,786,190; Dec. 23.
California Cedar Products Company. (See Sylva, John L., assignor.)
California Consolidated Water Co. (See Wolfe, Richard C., assignor.)
Callaghan, Martin A., Burlingame, Calif. Partition construction. 1,785,826; Dec. 23.
Callaway, Robert M., Waco Tex. Outlet construction. 1,785,766; Dec. 23.
Cameron, James A., assignor to Cameron Machine Company, Brooklyn, N. Y. Counterweighting device for winding machines. 1,786,934; Dec. 23.
Cameron Machine Company. (See Cameron, James, A., assignor.)
Camiener, Paul. (See Marshall, W., and Camiener.)
Campbell, Arthur B., Fort Wayne, Ind., assignor to General Electric Company. Electrically-wound clock. 1786,288; Dec. 23.
Campbell, Charles H., Pittsburgh, Pa., assignor, by mesne assignments, to Peter Cooper Corporations, Wilmington, Del. Reclaimed rubber. 1,786,149; Dec. 23.
Campus, Cesare C., Santa Monica, Calif. Valve and seat combination for bidet control. 1,785,935; Dec. 23.
Cancianich, Francis J., Newport News, Va. Safety appliance for gas burners. 1,786,395; Dec. 23.
Cancianich, Francis J., Newport News, Va. Gas burner. 1,786,396; Dec. 23.
Capeliuschnicoff, Matvey A., New York, N. Y., assignor of one-half to V. G. Shukhoff, Moscow, Union of Soviet Socialist Republics. End connector for tubes. 1,785,727; Dec. 23.
Carlisle, Rose A., administratrix. (See Carlisle, Roy.)
Carlisle, Roy, deceased, Indianapolis, Ind.; R. A. Carlisle, administratrix, assignor to Razor Blade Tile, Incorporated. Razor-blade-disposal tile. 1,785,855; Dec. 23.
Carpenter, Theodore H., Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa. Apparatus for pressure control. 1,785,807; Dec. 23.
Carpenter, William C., San Francisco, Calif. Fuel-briquette forming and baking machine. 1,785,827; Dec. 23.
Carr, Charles W., and E. I. Tripp, Susanville, assignors of one-fourth to F. B. Hutchins, San Francisco, and one-fourth to E. B. Birmingham, Susanville, Calif. Splining machine. 1,785,728; Dec. 23.

Carr, Moses F., Lexington, Mass., assignor, by mesne assignments, to United-Carr Fastener Corporation, Cambridge, Mass. Fastening installation. 1,785,825; Dec. 23.
Carroll, Emil J., Cincinnati, assignor to The American Laundry Machinery Company, Norwood, Ohio. Controlling mechanism for drying tumblers. 1,786,191; Dec. 23.
Casto, Lloyd V., assignor to Oxford Varnish Corporation, Detroit, Mich. Plate mounting. 1,786,001; Dec. 23.
Casto, Lloyd V., Detroit, Mich., assignor to Oxford Varnish Corporation. Plate mounting. 1,786,002; Dec. 23.
Ceasar, Paul, New York, N. Y. Electric-lamp bracket. 1,785,767; Dec. 23.
Celotex Company, The. (See Munroe, Treadway B., assignor.)
Central Glass Works. (See Schaub, Edward J. assignor.)
Chambers, Charles, jr., Flora, Ind. Vehicle spring. 1,785,828; Dec. 23.
Chance, Albert B., Centralia, Mo. Earth anchor. 1,786,228; Dec. 23.
Chaney, Newcomb K. (See Benner, R. C., and Chaney.)
Chason, Daniel H., Elizabeth, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Electrically-lighted sewing machine. 1,785,856; Dec. 23.
Chemical Treatment Company. (See Fink, C. G., and Eldridge, assignors.)
Chemische Fabrik auf Actien (vorm. E. Schering). (See Schotte, Herbert, assignor.)
Chetlain, Frederick H., et al., trustees. (See Arey, Fred C., assignor.)
Chilton, Ralph H., Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation. Refrigerating apparatus. 1,785,857; Dec. 23.
Christensen, Niels A., Cleveland, Ohio. Compressor drive. 1,786,003; Dec. 23.
Chryst, William A., assignor to Delco-Remy Corporation, Dayton, Ohio. Circuit interrupter. 1,785,887; Dec. 23.
Cipollina, Leonardi, Gulfport, Miss. Heel attaching device. 1,785,808; Dec. 23.
City Auto Stamping Company, The. (See Whitlock, George E., assignor.)
Clark, Adam, Willows, Saskatchewan, Canada. Earth-excavating machine. 1,786,335; Dec. 23.
Clark, Joseph H., Berkeley, Calif. Stay-down shirt. 1,786,105; Dec. 23.
Clayton, Martin M., Baden, Pa., assignor to National Electric Products Corporation, New York, N. Y. Clamp for crossbars. 1,786,004; Dec. 23.
Cleveland Clinic Foundation, The. (See Seitz, Valentine, assignor.)
Cleveland Graphite Bronze Company, The. (See Kerruish, Edward P., assignor.)
Coast, John W., jr., Tulsa, and G. T. Granger, Okmulgee, Okla. Method of and apparatus for treating hydrocarbon oils. 1,786,053; Dec. 23.
Coates, James H., R. S. Howe, and W. F. Costello, assignors to The New Britain Machine Company, New Britain, Conn. Stool. 1,785,768; Dec. 23.
Cobh Connector Company. (See Hermann, Edward O., assignor.)
Cody, Martin M., Chicago, Ill., assignor to Crane Packing Company. Gasket. 1,786,390; Dec. 23.
Coffman, Russell, administrator. (See Beasley, Albeon.)
Coggins, J. H., et al. (See Welsh, Ralph B., assignor.)
Cole, Harry A., New York, N. Y., assignor to Cole Service Plan, Inc. Variable-speed transmission. 1,785,936; Dec. 23.
Cole Service Plan, Inc. (See Cole, Harry A., assignor.)
Collins & Aikman Corporation. (See Curtis, Melville G., assignor.)
Columbus-McKinnon Chain Corporation, The. (See Stahl, Frank E., assignor.)
Conneaut Shovel Company, The. (See Welsh, Chester J., assignor.)
Conrow, Matthia W., Springfield, Mass. Nonskid tire chain which is permanently attached to the wheels. 1,786,229; Dec. 23.
Cooper, Peter, Corporation. (See Campbell, Charles H., assignor.)
Costello, William F. (See Coates, J. H., Howe, and Costello.)
Cox, George C. and H. K. McIntyre, deceased, by E. M. McIntyre, executrix, Raleigh, N. C.; J. G. McIntyre, New York, N. Y., and M. McIntyre, Cranford, N. J., executors. Glass purification. 1,785,888; Dec. 23.
Cox, John L. (See Givens, H. M., Foley, and Cox.)
Cox, Paul F., assignor to The Goss Printing Press Company, Chicago, Ill. Multicolor attachment for flat-bed web-printing presses. 1,786,336; Dec. 23.
Craddock, John E., Brooklyn, N. Y. Ball-vending machine. 1,786,289; Dec. 23.
Crane Packing Company. (See Cody, Martin M., assignor.)
Cretors, Charles, Chicago, Ill. Stirring mechanism for corn-popping apparatus. 1,786,005; Dec. 23.
Criley, William W., Cleveland, assignor to The Ajax Manufacturing Company, Euclid, Ohio. Safety device. 1,786,006; Dec. 23.
Crimmins, Murrell H., Los Angeles, Calif. Two-cycle internal-combustion engine and supercharging device. 1,786,106; Dec. 23.
Crisson, George, East Orange, N. J., assignor to American Telephone and Telegraph Company. Shielding arrangement. 1,786,412; Dec. 23.
Cronkhite, Charles M., Glendale, assignor to Pilot Ray Corporation, Los Angeles, Calif. Operating mechanism for dirigible headlights. 1,786,007; Dec. 23.
Crosby, Gorham. (See Gunn, Thomas M., assignor.)
Crowley, John F., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacturing shoes. 1,785,829; Dec. 23.
Crumpton, Kenneth R., assignor to Kaufmann Department Stores, Inc., Pittsburgh, Pa. Ceiling diffuser chandelier bowl. Des. 82,878; Dec. 23.
Cullman, Otto, Chicago, Ill. Support for electric motors. 1,786,192; Dec. 23.
Currie, John, Barrington, Huntingdon, Canada. Safety razor. 1,785,889; Dec. 23.
Curtis, Melville G., Cynwyd, assignor to Collins & Aikman Corporation, Philadelphia, Pa. Pile fabric and making the same. 1,785,937; Dec. 23.
Cutler, Samuel C., Murray Hill, N. J. Apparatus for purifying gases. 1,786,150; Dec. 23.
Dalton, Leo F., Terre Haute, Ind. Bottle closure. 1,785,890; Dec. 23.
Danat, Fred W., Buffalo, N. Y. Ventilator for automobiles. 1,785,891; Dec. 23.
Danielson, Charles, assignor to Hall Nelson Manufacturing Company, Minneapolis, Minn. Folding ironing table. 1,786,008; Dec. 23.
Dargent, Charles, Brooklyn, N. Y. Water heater. 1,786,337; Dec. 23.
Davidson, Glenn. (See Lancks, I. F., and Davidson.)
Davis, Alson H., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-pressing machine. 1,785,938; Dec. 23.
Davis, Augustine jr., Cincinnati, Ohio. Safety device for tanks. 1,785,729; Dec. 23.
Davis, Harry R., Nashua, N. H. Combination sign and awning. 1,785,809; Dec. 23.
Davis, McClellan, Portland, Oreg. Aeroplane-control device. 1,786,193; Dec. 23.
Davis, Melvin H., Seattle, Wash. Calendar. 1,786,230; Dec. 23.
Davis, Otis L., assignor to Brainard Steel Corporation, Warren, Ohio. Box-strap seal. 1,786,151; Dec. 23.
Davis, R. L., sr., et al. (See Baker, James C., assignor.)
Davis, Tenney L., Norwell, Mass. Di-alkyl urea. 1,785,730; Dec. 23.
Davis, Warren H., Nashua, N. H. Chicken battery. 1,785,858; Dec. 23.
Davis, William C., Preston, Wash. Shingle and making same. 1,785,830; Dec. 23.
Dawe, Albert J. (See Wilms, G. O., and Dawe.)
Defour, André Peronne, France. Utilizing the tides for power purposes. 1,785,896; Dec. 23.
De Grace, Edmond, Detroit, Mich. Railroad-track joint. 1,785,810; Dec. 23.
Dejur-Amsco Corporation. (See Shaw, Louis E., assignor.)
Delco Products Corporation. (See Elsey, George W., assignor.)
Delco-Remy Corporation. (See Chryst, William A., assignor.)
Delco-Remy Corporation. (See Hardman, Frederick J., assignor.)
Delco-Remy Corporation. (See Koffer, Albert E., assignor.)
Delco-Remy Corporation. (See Norvie, Harry E., assignor.)
Denmire, Harold A., assignor to The General Tire & Rubber Company, Akron, Ohio. Vulcanizing hollow rubber articles. 1,786,290; Dec. 23.
Denmire, Harold A., assignor to The General Tire & Rubber Company, Akron, Ohio. Tire-vulcanizing mold. 1,786,291; Dec. 23.
Dennison Manufacturing Company. (See Maish, Ralph A., assignor.)
De Plandolit y Bordas, Dolores, Barcelona, Spain. Adjustable clasp. 1,786,187; Dec. 23.
De Reamer, Frank C., Bridgeport, Conn., assignor to General Electric Company. Electric socket. 1,786,292; Dec. 23.
Detex Watchclock Corporation. (See Haselton, P. H., and Jenckes, assignors.)
Detex Watchclock Corporation. (See Knight, Ira W., assignor.)
Detroit Harvester Company. (See Horste, Joseph E., assignor.)
Detroit Lubricator Company. (See Russel, Philip S., assignor.)
De Vilbiss Company, The. (See Tracy, Robert W., assignor.)
De Vultich, Vladimir A., Paris, France. Clamping collar. 1,786,107; Dec. 23.
Diamond Match Company, The. (See Haferkamp, C. C., and Elder, assignors.)
Diamond Power Specialty Corporation. (See Snow, Norman L., assignor.)
Diamond Tool & Engineering Company. (See Asmussen, August J., assignor.)
Dick, Burns, assignor to Wagner Electric Corporation, St. Louis, Mo. Hydraulic-brake apparatus. 1,786,231; Dec. 23.
Dickinson, Dean D., Ayr, N. Dak. Harrow. 1,786,194; Dec. 23.
Dieterle, Paul, Buffalo, assignor to National Aniline & Chemical Company Inc., New York, N. Y. Making amino-azo compound. 1,785,769; Dec. 23.

Dinzl, Richard W. (See Nowak, A. K., and Dinzl.)
Dixson, Harry, assignor to Rolscreen Company, Pella, Iowa. Roller-screen structure. 1,786,054; Dec. 23.
Dodge, Henry P., Toledo, Ohio, assignor to Luthy Battery Equipment Company, San Antonio, Tex. Battery-plate building. 1,785,939; Dec. 23.
Donohue, Frank, jr., New York, N. Y. Propeller mechanism for aircraft. 1,786,338; Dec. 23.
Dormoy, Jules M. J., Paris, France, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Power braking apparatus. 1,786,195; Dec. 23.
Dornacher, Joseph F., Massillon, Ohio. Bailing tool and sample taker. 1,786,152; Dec. 23.
Dornier, Claude, assignor of one-half to the firm Dornier-Metallbauten G. m. b. H., Friedrichshafen-on-the-Bodensee, Germany. Stub wing of flying boats. 1,785,892; Dec. 23.
Dornier-Metallbauten G. m. b. H. (See Dornier, Claude, assignor.)
Dornier-Metallbauten, G. m. b. H. (See Presser, Albert, assignor.)
Downs, George F., and H. F. Miller, jr., Buffalo, N. Y. Port construction and gas burner for open-hearth furnaces. 1,786,293; Dec. 23.
Doyle, James E., Cleveland, Ohio. Appliance for operating upon sheets. 1,786,153; Dec. 23.
Driggs, Louis L., jr. (See Faber, H. B., and Driggs.)
Driscoll, Joseph J. (See Lymburner, Armand, assignor.)
Driver, Wilbur R., East Orange, N. J. Radiotube. 1,786,154; Dec. 23.
Dronsfield, James, Oldham, England. Differential motion for traversing car-grinding rollers. 1,785,731; Dec. 23.
Drury, Walter C., Fulton, Ill. Cluster enrobing machine. 1,786,108; Dec. 23.
Dryice Equipment Corporation. (See Jones, C. L., and Small, assignors.)
Dumor National Chemical Company. (See Waters, Charles H., assignor.)
Dura Company, The. (See Graff, George, assignor.)
Durand, Nelson C., East Orange, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Switch device. 1,786,294; Dec. 23.
Durdin, Augustus C., jr., Chicago, Ill. Vacuum condensation pump. 1,786,055; Dec. 23.
Durdin, Augustus C., jr., Chicago, Ill. Pumping apparatus. 1,786,056; Dec. 23.
Duwe, Friedrich, Mainz-Kastel, assignor to Maschinenfabrik Augsburg-Nurnberg A. G., Nuremberg, Bavaria, Germany. Apparatus for mixing liquids. 1,786,009; Dec. 23.
Eastman Kodak Company. (See Teague, Walter D., assignor.)
Eclipse Machine Company. (See Lansing, Raymond P., assignor.)
Econoheet Company. (See Becker, Aloysius W., assignor.)
Edison, Thomas A., Incorporated. (See Durand, Nelson, C., assignor.)
Edmundson, Marjorie C., San Pedro, Calif. Surgical bandage. 1,785,931; Dec. 23.
Edwards, Rubie, Fort Slocum, N. Y. Submarine rescuing device. 1,786,109; Dec. 23.
Efcolite Corporation. (See von Nessen, Walter, assignor.)
Eigenheer, Jakob, Vogelsang, near Turgi, Switzerland. Needle holder for the sound boxes of talking machines. 1,786,232; Dec. 23.
Elder, William J. (See Haferkamp, C. C., and Elder.)
Eldridge, Charles H. (See Fink, C. G., and Eldridge.)
Electric Sprayit Company. (See Weiss, Theobald C., assignor.)
Electric Steel Foundry Co. (See Nourse, Walter H., assignor.)
Ellis-Foster Company. (See Bradley, Theodore F., assignor.)
Elsey, George W., Anderson, Ind., assignor, by mesne assignments, to Delco Products Corporation, Dayton, Ohio. Rebound check. 1,785,893; Dec. 23.
Elsey, George W., Anderson, Ind., assignor, by mesne assignments, to Delco Products Corporation, Dayton, Ohio. Shock absorber. 1,785,984; Dec. 23.
Emsco Derrick & Equipment Company. (See Sawyer, Wilfred D., assignor.)
Enamel Products Company, The. (See Geiger, Frederick, assignor.)
England, William A., Davy, W. Va. Switch-operated frog. 1,785,895; Dec. 23.
Ennes, Stanton, Cleveland, Ohio. Railroad code-transmitting device. 1,785,940; Dec. 23.
Ennis, George H., Long Beach, assignor of one-half to R. V. Funk, Anaheim, Calif. Method and apparatus for determining the location of water strata in wells. 1,786,196; Dec. 23.
Entenman, Albert, Brooklyn, N. Y. Frame. 1,786,197; Dec. 23.
Eppensteiner, William F., Rahway, N. J., assignor, by mesne assignments, to The American Metal Company, New York, N. Y. Mold for casting metals. 1,785,941; Dec. 23.
Ericsson, Gunnar, Philadelphia, Pa. High-duty valve structure. 1,786,295; Dec. 23.
Escher, Edward, jr., Brooklyn, N. Y. Stopper for dilution bottles. 1,785,859; Dec. 23.
Etteldorf, Peter J., Quincy, Ill. Incubator. 1,785,942; Dec. 23
Ezdorf, Richard R. (See Brown, A. J., and Ezdorf.)
Ezdorf, Richard R., Washington, D. C., and A. J. Brown, New York, N. Y. Agricultural dusting machine. 1,785,943; Dec. 23.
Ezdorf, Richard R., Washington, D. C., and A. J. Brown, New York, N. Y. Broadcast duster. 1,785,944; Dec. 23.
Ezdorf, Richard R., Washington, D. C., and A. J. Brown, New York, N. Y. Dual fan-dusting machine. 1,785,945; Dec. 23.
Faber, Henry B., New York, and L. L. Driggs, jr., New Rochelle, N. Y. Aerial toy. 1,785,770; Dec. 23.
Falck, Fritz W., Los Angeles, Calif. Radiocabinet. Des. 82,879; Dec. 23.
Fales, Elisha N., Dayton, Ohio. Turbine. 1,786,057; Dec. 23.
Farmer, Cylde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Angle-cock device. 1,786,198; Dec. 23.
Farmer Stone Picking Machine Company, The. (See Reiter, Otis, F., assignor.)
Farrell, Peter A., Brooklyn, N. Y. Sign. 1,786,155; Dec. 23.
Federal Steel Sash Company. (See McIntosh, Charles J., assignor.)
Fehr, John R., assignor to Fridgidaire Corporation, Dayton, Ohio. Refrigerating apparatus. 1,785,860; Dec. 23.
Feldman, Emil. (See Kanter, E., and Feldman.)
Ferguson, Alexander D., Michigan City, Ind., assignor to Sullivan Machinery Company. Valve mechanism. 1,786,199; Dec. 23.
Ferguson, Charles, Ellis Island, N. Y. Ventilating apparatus. 1,786,200; Dec. 23.
Ferrara, Gabriel, Tres Arroyos, Argentina. Heating apparatus for the carburated mixture. 1,786,233; Dec. 23.
Filer & Stowell Company, The. (See Pelton, George M., assignor.)
Fink, Colin G., New York, N. Y., and C. H. Eldridge, Metuchen, N. J., assignor to Chemical Treatment Company, Inc., New York, N. Y. Protective metal coating and process and apparatus for producing the same. 1,786,398; Dec. 23.
Fishback, Robert W., Los Angeles, Calif. Lockable bolt nut. 1,786,201; Dec. 23.
Fisher, Alexander, Chicago, Ill. Combination tail and stop light. Des. 82,880; Dec. 23.
Fisher, Frank C., Toledo, Ohio. Indicator for weighing scales. 1,786,058; Dec. 23.
Flockhart Company, The. (See Flockhart, James, assignor.)
Flockhart, James, assignor to The Flockhart Company, San Francisco, Calif. Fountain brush. 1,785,732; Dec. 23.
Flogaus, Howard A., assignor to R. L. Skinner, Detroit, Mich. Air-cooled internal-combustion engine. 1,785,861; Dec. 23.
Flour Construction Co. (See Martin, Guy T., assignor.)
Flower, Arthur H. (See Nellis, C. P., and Flower.)
Flowers, James A., Birmingham, Ala. Automatic feed for burring machines. 1,785,862; Dec. 23.
Foley, Francis B. (See Givens, H. M., Foley, and Cox.)
Ford, Edward J., Spokane, Wash. Gauge. 1,786,339; Dec. 23.
Ford Motor Company. (See Stout, William B., assignor.)
Forman, Paris R., Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y. Magnet-valve construction. 1,786,234; Dec. 23.
Fostoria Glass Company. (See Sakier, George, assignor.)
Fourment, Marcel, Paris, France. Apparatus for high-temperature treatment of ores and other substances. 1,786,202; Dec. 23.
Fowler, Ralph S., San Francisco, Calif. Fastening means for belts. 1,785,947; Dec. 23.
Fox, Frank F., Fedora, South Dak. Chain pliers. 1,785,946; Dec. 23.
Fox Furnace Company, The. (See Suppes, Max M., assignor.)
Francis, Daniel R., assignor to The Waterbury Tool Company, Waterbury, Conn. Control means for variable-speed transmissions. 1,785,733; Dec. 23.
Frank, Harrison J. L., assignor to Bull Dog Electric Products Company, Detroit, Mich. Fused switching device. Re17,910; Dec. 23.
Frank, Harrison J. L., assignor to Bulldog Electric Products Company, Detroit, Mich. Control device. 1,786,010; Dec. 23.
Fraser, William, Arvida, Quebec, Canada. Aeronautical indicator. 1,786,059; Dec. 23.
Freeberg, George. (See Simons, G. A., and Freeberg.)
Freeze, Jonathan R., assignor to The American Rolling Mill Company, Middletown, Ohio. Crate for metallic sheets. 1,785,863; Dec. 23.
Freudenreich, William F., et al., trustees. (See Arey, Fred C., assignor.)
Fried. Krup Grusonwerk Aktiengesellschaft. (See Weighardt, P., and Schrott, assignors.)
Fried-Osterman Company. (Bruggeman, Alphonse J., assignor.)
Frigidaire Corporation. (See Chilton, Ralph H., assignor.)
Frigidaire Corporation. (See Fehr, John R., assignor.)
Fröhlich, Hans, assignor to Landis & Gyr, A.-G., Zug, Switzerland. Induction meter. 1,786,157; Dec. 23.
Fröhlich, Hans, and W. Zingg, assignors to Landis & Gyr, A.-G., Zug, Switzerland. Induction meter. 1,786,156; Dec. 23.

Frohman, Emanuel. (See Stewart, Walter C., assignor.)
Fromm, Willy, Frankfort-on-the-Main, Germany, assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening distributor. 1,785,832; Dec. 23.
Fuerst, Edwin W., assignor to Owens-Illinois Glass Company, Toledo, Ohio. Jar. Des. 82,881; Dec. 23.
Fugle, Charles H., C. H. Ostenberg, A. W. Maglein, J. M. Trudo, and A. Newton, Duluth, Minn. Cable-raising device. 1,785,811; Dec. 23.
Funk, Robert V. (See Ennis, George H., assignor.)
Gage, Charles S., Tarrytown, and C. T. Maeding, Elmhurst, assignors to Lentheric, Incorporated, New York, N. Y. Atomizer. Des. 82,882; Dec. 23.
Gallup, David L. (See Bendix, V., and Gallup.)
Ganzert, Albert E., assignor to The Pyle-National Company, Chicago, Ill. Connecter for electric train lights and the like. 1,785,734; Dec. 23.
Gardner, Henry A., Washington, D. C. Insulated carrier. 1,786,340; Dec. 23.
Gariepy, Leo, Woonsocket, R. I. Separator for ring-spinning machines. 1,786,235; Dec. 23.
Garrety, Frank J., Cincinnati, Ohio. Advertising device. 1,785,948; Dec. 23.
Gas Research Company, The. (See Smith, Harry F., assignor.)
Geiger, Frederick, assignor to The Enamel Products Company, Cleveland, Ohio. Drain board. 1,785,771; Dec. 23.
Gemmer Manufacturing Company. (See Marles, Henry, assignor.)
General Aniline Works, Inc. (See Herzberg, W., and Lange, assignors.)
General Aniline Works, Inc. (See Hoffa, E., and Müller, assignors.)
General Aniline Works, Inc. (See Stuesser, Richard, assignor.)
General Aniline Works, Inc. (See Tobler, Karl, assignor.)
General Aniline Works, Inc. (See Zerweck, Werner, assignor.)
General Electric Company. (See Anderson, A. E., and King, assignors.)
General Electric Company. (See Beregkoff, Anatol P., assignor.)
General Electric Company. (See Campbell, Arthur B., assignor.)
General Electric Company. (See De Reamer, Frank C., assignor.)
General Electric Company. (See Heisler, Charles L., assignor.)
General Electric Company. (See Hough, Eugene L., assignor.)
General Electric Company. (See Jones, Benjamin W., assignor.)
General Electric Company. (See McCullough, Robert Y., assignor.)
General Electric Company. (See McDonald, Gordon R., assignor.)
General Electric Company. (See Newkirk, Burt L., assignor.)
General Electric Company. (See Unger, Magnus, assignor.)
General Motors Corporation. (See Norviel, Harry E., assignor.)
General Motors Research Corporation. (See Hallett, George E. A., assignor.)
General Tire & Rubber Company, The. (See Denmire, Harold A., assignor.)
George, Jerome R., assignor to Morgan Construction Company, Worcester, Mass. Rolling-mill housing. 1,786,296; Dec. 23.
George, Willis C., Long Beach, Calif. Hydraulic expanding underreamer. 1,785,949; Dec. 23.
Gesellschaft für Drahtlose Telegraphie m. b. H. (See Moser, W., and Ted., assignors.)
Geyer, Harvey D., assignor to The Inland Manufacturing Company, Dayton, Ohio. One-piece rim and spider steering wheel. 1,785,897; Dec. 23.
Giannattasio, Ettore F., New York, N. Y. Searchlight. 1,785,950; Dec. 23.
Gibson, Wilfrid, C. R. Henshaw, and J. B. Payman, Blackley, Manchester, assignors to Imperial Chemical Industries Limited, London, England. Manufacture of triaryl phosphates. 1,785,951; Dec. 23.
Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)
Gilbert, Alfred C., Hamden, assignor to The A. C. Gilbert Company, New Haven, Conn. Ventilating device. 1,786,203; Dec. 23.
Gilbert, Charles B., Burlington, N. J., assignor of one-half to J. G. Bosworth, New York, N. Y. Garment cover. 1,786,341; Dec. 23.
Givens, Howard M., Abington, F. B. Foley, Philadelphia, and J. L. Cox, Springfield Township, Montgomery County, Pa. Rolling alloy steel. 1,786,297; Dec. 23.
Glasby, Jonathan P., jr., Verona, N. J. Aircraft wing. 1,786,236; Dec. 23.
Gleason, John W., et al., trustees. (See Arey, Fred C., assignor.)
Globe Brick Company, The. (See Porter, Jacob N., assignor.)
Golding, Edward P. (See McElvaney, C. T., jr., and Golding.)
Good, John N. (See Thomas, T. H., and Good.)
Goss Printing Press Company, The. (See Cox, Paul F., assignor.)
Gosse, William K., Chicago, Ill. Valve mechanism. 1,786,307; Dec. 23.
Graff, George, assignor to The Dura Company, Toledo, Ohio. Motor-vehicle door handle or similar article. Des. 82,883; Dec. 23.
Graham-Paige Motors Corporation. (See Valpey, Frank R., assignor.)
Grand Central Wicker Shop, Inc. (See Oliva, Vincent, assignor.)
Granger, Gordon T. (See Coast, J. W., jr., and Granger.)
Gravitt, Guy, Lawrenceville, Ill. Auxiliary lens attachment for eyeglasses. 1,786,204; Dec. 23.
Greaves, Frederick G., and S. P. Watt, Seattle, Wash. Lumber carrier. 1,786,060; Dec. 23.
Greeman, Omer W. (See Williams, J. C., and Greeman.)
Green, Samuel S., et al. (See Walker, Jerry S., assignor.)
Greene, George W., Hamarville, Pa. Fish net. 1,786,342; Dec. 23.
Greider, Clarence E., Lakewood, Ohio, assignor to National Carbon Co., Inc. Transparent film. 1,786,205; Dec. 23.
Gribben, William, Detroit, Mich. Wheel for railway rolling stock. 1,785,812; Dec. 23.
Griffith, Francis, Passaic, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Universal drag conveyer. 1,786,343; Dec. 23.
Griggs, Harvey D., and J. B. Subira, assignors of one-half to C. A. Smith, San Antonio, Tex. Safety stop sign. 1,785,952; Dec. 23.
Groenenstein, Philip J., Cleveland, Ohio. Glare shield. 1,786,011; Dec. 23.
Grover, William H., W. S. Pooley, Toledo, Ohio, and C. E. Merritt, Adrian, Mich. Circuit closer. 1,786,391; Dec. 23.
Gruber, Oscar, St. Paul, Minn. Watchcase. 1,786,061; Dec. 23.
Gruenholz, Andrew A. (See Gruenholz, Fred P. and A. A.)
Gruenholz, Fred P. and A. A., Terre Haute, Ind. Flower basket. 1,786,062; Dec. 23.
Gruman, Horace F., Richmond Heights, Mo., assignor to Lewis Invisible Stitch Machine Company, Kittery, Me. Method of and apparatus for operating on tubular articles. 1,786,298; Dec. 23.
Guiberson Corporation, The. (See Guiberson, Samuel A., jr., assignor.)
Guiberson, Samuel A., jr., Los Angeles, Calif., assignor to The Guiberson Corporation, Dallas, Tex. Elastic reciprocating member. 1,786,012; Dec. 23.
Gulf Refining Company. (See Carpenter, Theodore H., assignor.)
Gumpper, Harold D., Detroit, Mich. Voltage regulator for internal-combustion-engine-driven electric generators. 1,786,063; Dec. 23.
Gunn, Thomas M., Brooklyn, N. Y., assignor of one-sixth to G. Crosby, Glen Ridge, N. J. Refrigerating apparatus. 1,786,110; Dec. 23.
Haferkamp, Carl C., and W. J. Elder, Oswego, N. Y., assignors to The Diamond Match Company, Chicago, Ill. Impregnating match splints. 1,785,864; Dec. 23.
Hale, Edward E., Buffalo, N. Y. Egg carton. 1,785,898; Dec. 23.
Hall Nelson Manufacturing Company. (See Danielson, Charles, assignor.)
Hallam, Ralph M., and W. E., Amberg, said Amberg assignor to said Hallam. Hasp. 1,785,772; Dec. 23.
Hallett, George E. A., assignor to General Motors Research Corporation, Detroit, Mich. Double-acting shock absorber. 1,785,899; Dec. 23.
Hamberger, Frank X., Buffalo, N. Y. Furnace burner. 1,785,900; Dec. 23.
Hamilton, Reginald H., Christchurch, New Zealand. Self-adjusting tappet. 1,786,237; Dec. 23.
Hammer, Willibald, assignor to the firm: Uster Factories for Apparatus and Machines, formerly Zellweger, Ltd., Uster, Switzerland. Separating device for intercrossing threads. 1,786,238; Dec. 23.
Hanan, George, Brooklyn, N. Y. Beach rest and sunshade. 1,785,953; Dec. 23.
Hancock, Milton L., East McKeesport, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Slack adjuster. 1,786,299; Dec. 23.
Hansen's, Chr., Laboratory, Inc. (See Monrad, Karl J., assignor.)
Hanson, Ira C., Racine, Wis. Electric-circuit control. 1,785,773; Dec. 23.
Happone, Matt, assignor to Briggs Manufacturing Company, Detroit, Mich. Ventilator system. 1,786,064; Dec. 23.
Hardie, George, Condon, Oreg. Cultivator. 1,785,901; Dec. 23.
Hardigg, Jep C. (See Whiton, L. C., jr., and Hardigg.)
Hardman, Frederick J., assignor to Delco-Remy Corporation, Dayton, Ohio. Ignition timer. 1,785,902; Dec. 23.
Harris, Charles P., Oakland, Calif. Fishing tool. 1,786,111; Dec. 23.
Harrison, Monroe, Chicago, Ill. Machine or apparatus for treating foods or the like. 1,786,300; Dec. 23.
Hart, Leslie J., assignor of one-four to C. Johnson, Valdosta, Ga. Filing cabinet. 1,786,112; Dec. 23.
Harter, Harvey, Paterson, assignor, by mesne assignments, of forty-nine-hundredths to J. McGowan, Camden, N. J. Intermittent grip device for copyholders. 1,786,344; Dec. 23.
Hartwell, Benjamin F. (See Bartlett, F. M., and Hartwell.)

Haselton, Philip H., East Orange, N. J., and M. A. Jenckes, Providence, R. I., assignors to Detex Watchclock Corporation, New York, N. Y. Supervisory mechanism. 1,786,013; Dec. 23.
Hasler A. G., vormals Telegraphenwerk-statte von G. Hasler. (See Kohler, Ulrich, assignor.)
Haug, Herman, New York, N. Y., assignor to Rosemary Mfg. Co., Roanoke Rapids, N. C. Textile panel for a mattress covering. Des. 82,884; Dec. 23.
Haug, Herman, New York, N. Y., assignor to Rosemary Mfg. Co., Roanoke Rapids, N. C. Textile panel for a mattress covering. Des. 82,885; Dec. 23.
Haug, Herman, New York, N. Y., assignor to Rosemary Mfg. Co., Roanoke Rapids, N. C. Textile panel for a mattress covering. Des. 82,886; Dec. 23.
Haverhill Shoe Novelty Company. (See Pascucci, Attilio R., assignor.)
Hawes, Charlie L., Ashtabula, Ohio. Reduction gearing. 1,786,158; Dec. 23.
Hawthorne, John A., jr. (See Lea, L., and Hawthorne.)
Hayes, Frederick S., Meridian, Miss. Dispensing refrigerator. 1,785,954; Dec. 23.
Heather, George B., assignor to The Wire Novelty Manufacturing Company, West Haven, Conn. Button loop. 1,785,735; Dec. 23.
Heicke, Adolf. (See Thilo, Erich, assignor.)
Heimberger, Harry T., Riverside, and E. Pugh, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Holder for heated devices. 1,786,065; Dec. 23.
Heiner, Glen P., Salt Lake City, Utah. Piston. 1,785,903; Dec. 23.
Heise, George W., Bayside, N. Y., and C. W. Broknate, Danbury, Ohio, assignors to National Carbon Company, Inc. Galvanic cell. 1,786,406; Dec. 23.
Heisey, A. H., & Company. (See Heisey, Thomas C., assignor.)
Heisey, Thomas C., assignor to A. H. Heisey & Company, Newark, Ohio. Glass plate or article of similar nature. Des. 82,887; Dec. 23.
Heisey, Thomas C., assignor to A. H. Heisey & Company, Newark, Ohio. Flower bowl or article of similar nature. Des. 82,888; Dec. 23.
Heisler, Charles L., Schenectady, N. Y., assignor to General Electric Company. Sound recording and reproducing apparatus. 1,786,301; Dec. 23.
Henshaw, Charles R., et al. (See Gibson, W., Henshaw, and Payman.)
Henszey, Roy O., Oconomowoc, Wis. Purifying boiler water. 1,786,113; Dec. 23.
Herbst, Ernest, and H. Kohler, Hoboken, N. J. Automatic dispenser for liquids. 1,786,302; Dec. 23.
Hermann, Edward O., Mill Valley, assignor to Cobb Connecter Company, Los Angeles, Calif. Train-pipe coupler. 1,786,066; Dec. 23.
Herzberg, Wilhelm, Berlin-Wilmersdorf, and H. Lange, Dessau In Anhalt, Germany, assignors to General Aniline Works, Inc., New York, N. Y. 1-ω-aminomethylnaphthalene sulphonic acids. 1,785,935; Dec. 23.
Hess, John P., Milwaukee, Wis. Cam. 1,785,736; Dec. 23.
Hester, Frederick C., jr., Leesburg, Fla. Airplane swing. 1,786,239; Dec. 23.
Heylandt, Christian W. P., Berlin-Lankwitz, Germany. Transferring liquefied gases. 1,786,159; Dec. 23.
Hickok Manufacturing Company. (See Mix, Edwin S., assignor.)
Hightower, Arthur, Frost, Tex. Cotton packer. 1,786,240; Dec. 23.
Hightower, Arthur, Frost, Tex. Cross-row cotton chopper and cultivator. 1,786,241; Dec. 23.
Highway Trailer Company. (See Williams, Leroy E., assignor.)
Hill, Charles P., Los Angeles, Calif. Cable connection for batteries. 1,786,206; Dec. 23.
Hobart Bros. Company, The. (See Hobart, Edward A., assignor.)
Hobart, Edward A., assignor to The Hobart Bros. Company, Troy, Ohio. Car-washing pump. Des. 82,889; Dec. 23.
Hobart, Edward A., assignor to The Hobart Bros. Company, Troy, Ohio. Compressor. 1,786,242; Dec. 23.
Hochriem, Gustav F., Chicago, Ill. Coin-controlled mechanism. 1,786,014; Dec. 23.
Hoffa, Erwin, and F. Müller, Frankfort-on-the-Main, Hochst, Germany, assignors to General Aniline Works, Inc., New York N. Y. Preparing hydroxythionaphthenes. 1,785,813; Dec. 23.
Hoffman, Andrew, Manufacturing Co. (See Johnson, Alfred J., assignor.)
Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Controlling mechanism. 1,785,956; Dec. 23.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,785,957; Dec. 23.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,785,958; Dec. 23.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,785,959; Dec. 23.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,785,960; Dec. 23.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,785,961; Dec. 23.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,786,243; Dec. 23.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,786,244; Dec. 23.
Hompe, Robert W., Cleveland, Ohio. Candy molding. 1,785,904; Dec. 23;
Hönningstad, Amund, A. Arneson, Forus, near Stavanger, and A. Norheim, Hinna, near Stavanger, Norway. Manufacturing drain pipes from veneer. 1,786,245; Dec. 23.
Hookless Fastener Company. (See Sundback, Gideon, assignor.)
Horste, Joseph E., assignor, to Detroit Harvester Company, Detroit, Mich. Driving attachment for tractors. 1,786,067; Dec. 23.
Hough, Eugene L., Richmond Heights, Mo., assignor to General Electric Company. Automatic control equipment. 1,786,303; Dec. 23.
House, Charles H., Arkansas City, Kans. Folding bed or couch. 1,785,865; Dec. 23.
Howe, Ralph S. (See Coates, J. H., Howe, and Costello.)
Hudson, Robert F., Richmond, Va., assignor, by mesne assignments, to Automatic Guns, Inc. Machine gun. 1,786,207; Dec. 23.
Huene, Howard J., Brooklyn, N. Y. Chart for submitting advertising matter. 1,785,866; Dec. 23.
Hughes, William E., Chicago, Ill., assignor to Sullivan Machinery Company. Compressor system. 1,786,114; Dec. 23.
Hulshizer, Joseph I. (See Smith, W. A., sr., and Hulshizer.)
Humason, Granville A., Houston, assignor of one-half to J. A. Logan, Harris County, Tex. Casing head. 1,786,407; Dec. 23.
Hunn, Edward B., Roselle, N. J., assignor to Standard Oil Development Company. Purification of hydrocarbon oils. 1,786,246; Dec. 23.
Hunt, Leigh. (See Sturgis, Herbert M., assignor.)
Hupp Motor Car Corporation. (See MacPherson, Earle S., assignor.)
Hurd, Benjamin W., assignor to Turbine Fuel Oil Burner Co., San Francisco, Calif. Burner control. 1,786,068; Dec. 23.
Hutchins, Frank B., et al. (See Carr, C. W., and Tripp, assignors.)
Hybinette, Noak V., Wilmington, Del., assignor to Hybinette Patents Corporation, Jackson, Mich. Plastic heat-treated aluminum alloy. 1,785,774; Dec. 23.
Hybinette Patents Corporation. (See Hybinette, Noak V., assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Jordan, O., and Kraemer, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Pungs, W., and Jahrstorfer, assignors.)
Imperial Chemical Industries Limited. (See Gibson, W., Henshaw, and Payman, assignors.)
Ingersoll-Rand Company. (See Smith, William A., sr., assignor.)
Ingersoll-Rand Company. (See Smith, W. A., sr., and Hulshizer, assignors.)
Ingoldby, Maurice K., Westminster, London, assignor to Internal Combustion Locomotives, Limited, Westminster, England. Locomotive. 1,786,304; Dec. 23.
Inland Manufacturing Company, The. (See Geyer, Harvey D., assignor.)
Inland Manufacturing Company, The. (See Nellis, C. P., and Flower, assignors.)
Internal Combustion Locomotives, Limited. (See Ingoldby, Maurice K., assignor.)
International Cigar Machinery Company. (See Snyder, George H., assignor.)
Isothermos Corporation of America. (See Baur, Max F., assignor.)
Itzi, Peter, Philadelphia, Pa. Electric cooker. 1,786,345; Dec. 23.
Iwanowitz, Carl H., Souderton, Pa. Aircraft. 1,785,775; Dec. 23.
Jaco, William S. (See Beasley, Albeon, assignor.)
Jacobs, Reed E., Berkeley, Calif. Electric-motor truck. 1,786,069; Dec. 23.
Jacques, Ora E., Plymouth, N. H. Cutting machine. 1,786,346; Dec. 23.
Jahrstorfer, Michael. (See Pungs, W., and Jahrstorfer.)
James, Charles T., Los Angeles, Calif. Money tray and safety receptacle therefor. 1,786,160; Dec. 23.
James, George H., assignor of one-half to F. H. Simpson, Oakland, Calif. Screw jack. 1,786,305; Dec. 23.
James Manufacturing Company. (See Markey, G. T., and Olson, assignors.)
James Manufacturing Company. (See Olson, John B., assignor.)
Jenckes, Malcolm A. (See Haselton, P. H., and Jenckes.)
Jenkins, W. M., trustee. (See Berkeley, Laurence J., assignor.)
Jensen, Ferdinand L., Kildare, N. Y. Fastener. 1,786,115; Dec. 23.
Johns-Manville Corporation. (See Mazza, Adolfo, assignor.)

Johnson, Alfred J., assignor to Andrew Hoffman Manufacturing Co., Chicago, Ill. Casement-window fastener. 1,786,247; Dec. 23.
Johnson, Claudia. (See Hart, Leslie J., assignor.)
Johnson, Stephen, jr. (See McCune, J. C., and Johnson.)
Jones, Benjamin W., Schenectady, N. Y., assignor to General Electric Company. Controlling device. 1,786,306; Dec. 23.
Jones Brothers Company. (See Jones, Robert B., assignor.)
Jones, Charles L., Pittsburgh, Pa., and J. D. Small Dougiaston, assignors to Dryice Equipment Corporation, New York, N. Y. Storage and transportation of solid carbon dioxide. 1,786,161; Dec. 23.
Jones, Harry C., New York, N. Y. Apparatus for making registered prints. 1,786,070; Dec. 23.
Jones, Robert B., Barre, Vt., assignor to Jones Brothers Company, Boston, Mass. Stone cutting and polishing machine. 1,785,737; Dec. 23.
Jordahl, Anders, New York, N. Y., assignor to American Air Filter Company, Inc., Louisville, Ky. Dust separator. 1,786,208; Dec. 23.
Jordan, Otto, Ludwigshafen-on-the-Rhine, and G. Kraemer, Heidelberg, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of neutral fats and oils. 1,786,248; Dec. 23.
Justrite Manufacturing Company. (See Brown, Le Roy O., assignor.)
Kanter, Edward, and E. Feldman, Cleveland Heights, Ohio. Article-dispensing-machine casing. Des. 82,890; Dec. 23.
Katz, Martin, Brooklyn, N. Y. Mail chute. 1,785,867; Dec. 23.
Kaufmann Department Stores, Inc. (See Crumpton, Kenneth R., assignor.)
Keck, Albert J., Newport, Minn. Printing device. 1,785,833; Dec. 23.
Kelley, Edward C., et al. (See Walker, Jerry S., assignor.)
Kelly, William M., Westfield, assignor to American Type Founders Company, Jersey City, N. J. Printing press. 1,786,116; Dec. 23.
Kemp, Edward F., Somerville, Mass. Holder for confectionery. 1,786,392; Dec. 23.
Kennedy, Charles F., assienor to H. E. Verran, Stamford, Conn. Method and apparatus for stenciling on cloth. 1,786,347; Dec. 23.
Kennedy, Julian, Pittsburgh, Pa. Apparatus for rolling sheets. 1,786,162; Dec. 23.
Kennedye, Charles B., University City, Mo., assignor to The Kennedye Corporation, Wilmington, Del. Well-drilling tool. 1,786,413; Dec. 23.
Kennedye, Charles B., University City, Mo., assignor to The Kennedye Corporation, Wilmington, Del. Rotary well-drilling tool. 1,786,414; Dec. 23.
Kennedye, Charles B., University City, Mo., assignor to The Kennedye Corporation, Wilmington, Del. Well-drilling tool. 1,786,415; Dec. 23.
Kennedye Corporation, The. (See Kennedye, Charles B., assignor.)
Kerkhoff, Frank A. (See Terrell, H. C., and Kerkhoff.)
Kernnish, Edward P., Cleveland Heights, assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Tool for scarifying the interior of tubing. 1,785,905; Dec. 23.
Kesling, Elmer G., Bloomfield, Mo. Speed-changing mechanism. 1,785,776; Dec. 23.
Keyser, Johann J., Aarau, Switzerland. Spinning and twisting machine. 1,786,348; Dec. 23.
Kielberg, Henry, Martins Ferry, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va. Gas heater. Des. 82,891; Dec. 23.
Kielberg, Henry, Martins Ferry, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va. Radiant gas heater. Des. 82,892; Dec. 23.
Kilgore, Martin H., Beaumont, Tex. Deep-well pump. 1,785,834; Dec. 23.
King, C. G. & Co. (See Brigham, Charles W., assignor.)
King, C. G., & Co. (See King, Clifford G., assignor.)
King, C. G., & Co. (See Recchia, Orlando R., assignor.)
King, Clifford G., Barrington, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Shoe buckle. Des. 82,893; Dec. 23.
King, Frederic D. (See Anderson, A. E., and King.)
Kinzie, Charles J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Producing vitreous enamels. 1,785,777; Dec. 23.
Kirschbraun, Lester, Leonia, N. J., assignor to F. L. Belknap, Chicago, Ill. Cleaning composition. 1,786,249; Dec. 23.
Klein, Albert, New York, N. Y. Ash tray or the like. Des. 82,894; Dec. 23.
Knight, Ira W., Providence, R. I., assignor to Detex Watchclock Corporation, New York, N. Y. Supervisory mechanism. 1,786,015; Dec. 23.
Knoth, Hilary G., Detroit, Mich. Paper holder. 1,786,250; Dec. 23.
Knott, Harry H., assignor to American Pearl Button Company, Washington, Iowa. Saw-setting device. 1,786,071; Dec. 23.
Knox, Harry A., and B. F. Baker, Davenport, Iowa. Steering-control system for vehicles. 1,785,738; Dec. 23.
Koffer, Albert E., assignor to Delco-Remy Corporation, Dayton, Ohio. Lock switch. 1,785,906; Dec. 23.
Kohler, Hans. (See Herbst, E., and Kohler.)
Kohler, Ulrich, assignor to Hasler A.-G., vormals Telegraphenwerk-Statte von G. Hasler, Bern, Switzerland. Control device of currency-stamping machines having counting mechanism. 1,786,251; Dec. 23.
Koplin, Harry, assignor to The Amico Company, Inc., Chicago, Ill. Drying machine. 1,786,349; Dec. 23.
Koppers Company, The. (See Becker, Joseph, assignor.)
Koppers Company, The. (See Myers, Albert J., assignor.)
Koppers Company, The. (See van Ackeren, Joseph, assignor.)
Korelin, Michail N., Moscow, Russia. Peat mining. 1,785,739; Dec. 23.
Koretzky, Harry M., assignor to Bright Star Battery Company, Hoboken, N. J. Flash-light switch. 1,785,868; Dec. 23.
Kothny, Gottdank L., Strafford, assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa. Condenser for mixed vapors. 1,786,163; Dec. 23.
Kottman, August, assignor to Rheinische Metallwaaren und Maschinenfabrik Sömmerda Aktiengesellschaft, Sommerda, Germany. Drive for the stepped drums of calculating machines. 1,786,164; Dec. 23.
Kraemer, Georg. (See Jordan, O., and Kraemer.)
Kreider, Enos H., Lancaster, Pa. Vehicle shock absorber. 1,785,814; Dec. 23.
Krembs, Ottmar M., Glencoe, Ill. Pocketed welding, brazing, and hard-soldering rod. 1,785,778; Dec. 23.
Krider, George E., Duncansville, assignor to McLanahan-Stone Machine Company, Hollidaysburg, Pa. Paddle ore-washing machine. 1,786,399; Dec. 23.
Kriegh, Hobart R., Albany, Calif. Aeroplane. 1,786,307; Dec. 23.
Krollage, Rudolph, McGregor, Tex. Oil vaporizer. 1,786,117; Dec. 23.
Kurtz, Cyrus B., Lakewood, assignor to The National Appliance Company, Cleveland, Ohio. Vehicle light. 1,786,400; Dec. 23.
Kurtz, Daniel W. B., jr., Columbia, Mo. Equipment or attachment to expedite handling of cards in large lots for inspection of same. 1,785,815; Dec. 23.
Laclede Steel Company. (See Young, Lafayette, assignor.)
Lambert, Cecil R., Company, The. (See Preble, Norman H., assignor.)
Lambert, David N., Brooklyn, N. Y. Resuscitator. 1,786,350; Dec. 23.
Landis & Gyr, A.-G. (See Fröhlich, Hans, assignor.)
Landis & Gyr, A.-G. (See Fröhlich, H., and Zingg, assignors.)
Lange, Hans. (See Herzberg, W., and Lange.)
Lansing, Raymond P., Montclair, N. J., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,786,118; Dec. 23.
Lansing, Raymond P., Montclair, N. J., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,786,119; Dec. 23.
Lanzi, Elmo G., assignor to Bonus Candy Corporation, Chicago, Ill. Coating apparatus. 1,785,835; Dec. 23.
Latourelle, Joseph, and F. Stevermer, Centuria, Wis. Combined music rack and cane. 1,786,308; Dec. 23.
Laucks, I. F., Inc. (See Laucks, I. F., and Davidson, assignors.)
Laucks, Irving F., and G. Davidson, assignors to I. F. Laucks, Inc., Seattle, Wash. Vegetable adhesive and method of making. 1,786,209; Dec. 23.
Lauter, Philip, New York, N. Y. Variable resistance. 1,785,779; Dec. 23.
Lea, Langdon, Wynnewood, and J. A. Hawthorne, jr., Moores, Pa. Level. 1,786,309; Dec. 23.
Le Bus, John E., Electra, Tex. Drive or clutch mechanism for winches. 1,786,351; Dec. 23.
Legat, Robert C., assignor to G. E. Prentice Manufacturing Company, New Britain, Conn. Separable fastener. 1,785,740; Dec. 23.
Lehto, Vaino E., Evansville, Ind. Rasp or file. 1,785,836; Dec. 23.
Le Mire, Warren C., Ancon, Canal Zone, Panama. Overhead rabbit carrier for dog-racing tracks. 1,785,837; Dec. 23.
Lentheric, Incorporated. (See Gage, C. S., and Maeding, assignors.)
Lesperance, Dennis E., Oakland, Calif. Handle lock for vacuum sweepers. 1,786,210; Dec. 23.
Lewis, Carroll E., St. Paul, assignor to The Lewis Corporation, Inc., Minneapolis, Minn. Air-conditioning system. 1,785,741; Dec. 23.
Lewis Corporation, The. (See Lewis, Carroll E., assignor.)
Lewis, George K., assignor to Met-L-Wood Corporation, Chicago, Ill. Pressboard. 1,786,211; Dec. 23.
Lewis Invisible Stitch Machine Company. (See Gruman, Horace F., assignor.)
Line, Wallace O., Cleveland, Ohio. Handkerchief. 1,785,962; Dec. 23.
Linebarger, Charles E., Chicago, Ill. Electric storage battery. 1,785,963; Dec. 23.
Lincoln Drilling Company. (See Woodmansee, Clay G., assignor.)
Livingston, Fremont P., Denver, Colo, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Angle cock. 1,786,212; Dec. 23.

Lobdell, Roy T., Newburgh, N. Y. Electric insulator. 1,785,816; Dec. 23.

Locke, Emery A. (See Bergquist, Charles H., assignor.)

Lofgren, Carl O. B., assignor to The Bryant Electric Company, Bridgeport, Conn. Locking device. 1,786,352; Dec. 23.

Logan, J. A. (See Humason, Granville A., assignor.)

Logan, Orren E., assignor of one-half to G. L. Barnes, Los Angeles, Calif. Device for securing outlet boxes to their hangers. 1,786,353; Dec. 23.

Lohman, Jefferson S., Scranton, Pa. Attachment for button-sewing machines. 1,786,354; Dec. 23.

Loomis, Crawford C., Ilion, N. Y., assignor to Remington Arms Company, Inc. Firearm. 1,786,213; Dec. 23.

Luthy Battery Equipment Company. (See Dodge, Henry P., assignor.)

Lymburner, Armand, Verdun, Quebec, Canada, assignor of one-half to J. J. Driscoll, Chicago, Ill. Locomotive exhaust-steam nozzle. 1,785,907; Dec. 23.

Lynam, Thornton L., Dartmouth, Mass. Cooking outfit. 1,786,120; Dec. 23.

MacPherson, Earl S., assignor to Hupp Motor Car Corporation, Detroit, Mich. Manifold. 1,785,869; Dec. 23.

Madden, William H., Mt. Pleasant, Tex. Plow. 1,785,964; Dec. 23.

Maeding, Charles T. (See Gage, C. S., and Maeding.)

Maglein, Albert W. (See Fugle, C. H., Ostenberg, Maglein, Trudo, and Newton.)

Magrath, George H., Whitinsville, Mass. Bearing support for spinning or twisting spindles. 1,786,252; Dec. 23.

Maish, Ralph A., assignor to Dennison Manufacturing Company, Framingham, Mass. Index tab and method. 1,785,780; Dec. 23.

Major, George D., Cumberland, Md. Motor generator. 1,785,965; Dec. 23.

Malcolm, Edward B., Montreal, Quebec, Canada. Panel roof for closed cars. 1,785,908; Dec. 23.

Malloy, Francis V. (See Schmidt, P., and Malloy.)

Management and Finance Corporation of California. (See Stewart, James A., assignor.)

Marcroft, William, Cranston, and G. N. Taylor, East Providence, R. I., assignors to Universal Winding Company, Boston, Mass. Yarn cleaner and slub detector. 1,785,817; Dec. 23.

Marcus, Charles L., New York, N. Y. Bottle rack or similar article. Des. 82,896; Dec. 23.

Marcus, Samuel, Brooklyn, assignor to Markon Manufacturing Co., Inc., New York, N. Y. Doll-head structure. 1,785,781; Dec. 23.

Markey, George T., and J. B. Olson, assignors to James Manufacturing Company, Fort Atkinson, Wis. Feeder. 1,785,782; Dec. 23.

Markon Manufacturing Co. (See Marcus, Samuel, assignor.)

Markstein, Robert P., Vienna, Austria. Device for timely opening and closing of the flap of fountain pens. 1,786,355; Dec. 23.

Marles, Henry, assignor to Gemmer Manufacturing Company, Detroit, Mich. Coupling. 1,785,870; Dec. 23.

Marshall, William, assignor to Briggs Manufacturing Company, Detroit, Mich. Sill construction. 1,786,072; Dec. 23.

Marshall, William, assignor to Briggs Manufacturing Company, Detroit, Mich. Trimming holder. 1,786,073; Dec. 23.

Marshall, William, and P. Camiener, assignor to Briggs Manufacturing Company, Detroit, Mich. Remote control mechanism for door latches. 1,786,074; Dec. 23.

Marshalltown Trowel Company. (See Trontner, Jesse B., assignor.)

Martell, Charles, Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Reclaiming or improving gum exudates. 1,786,075; Dec. 23.

Martin, Guy T., assignor to Fluor Construction Co., Los Angeles, Calif. Atmospheric cooling tower. 1,786,076; Dec. 23.

Martin, Mark H., Reading, assignor to Birdsboro Steel Foundry & Machine Company, Birdsboro, Pa. Side frame for car trucks. 1,785,871; Dec. 23.

Martindell, Frank, Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for treating materials. 1,786,416; Dec. 23.

Maschinenfabrik Augsburg-Nurnberg A. G. (See Duwe, Friedrich, assignor.)

Maschinenfabrik Augsburg-Nuernberg, Aktiengesellschaft. (See Wilhelm, Ottmar, assignor.)

Masin, Jacob S., and H. E. White, Anniston, assignors, by mesne assignments, to Swann Research, Inc., Birmingham, Ala. Production of high-purity abrasive materials. 1,786,016; Dec. 23.

Matta, George, Braddock, Pa. Helicopter. 1,786,017; Dec. 23.

Mayer, August, assignor to Adarteraft, Inc., New York, N. Y. Display device. 1,786,253; Dec. 23.

Mayes, Edd T., et al. (See Walker, Jerry S., assignor.)

Mazza, Adolfo, Genoa, Italy, assignor, by mesne assignments, to Johns-Manville Corporation, New York, N. Y. Method and apparatus for making seamless pipes. 1,786,215; Dec. 23.

McAllister, John W. (See Nicholson, J. P., and McAllister.)

McArthur, John O., Casper, Wyo. Crosshead. 1,786,121; Dec. 23.

McCabe, Ira E., Chicago, Ill. Delayed-action mercury-tube switch. 1,786,018; Dec. 23.

McCann, John H., Chicago, Ill. Protective cover for plumbing fixtures. 1,785,872; Dec. 23.

McClure, Rodney N., Inglewood, Calif. Drapery rod. 1,785,838; Dec. 23.

McCoy, Harry E., Pittsburgh, assignor to McDowell Manufacturing Company, Millvale, Pa. Mechanical exercising device. 1,786,165; Dec. 23.

McCullough, Robert Y., Schenectady, N. Y., assignor to General Electric Company. Control system. 1,86,310; Dec. 23.

McCullough, Walter A., Alliance, Ohio. Attachable wall for platform station trucks. 1,786,077; Dec. 23.

McCune, Joseph C., Edgewood, and S. Johnson, jr., Pittsburgh, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Vacuum-operated horn. 1,786,214; Dec. 23.

McDonald, Gordon R., Erie, Pa., assignor to General Electric Company. Regulating system. 1,786,311; Dec. 23.

McDowell Manufacturing Company. (See McCoy, Harry E., assignor.)

McElvaney, Charles T., jr., and E. P. Golding, Dallas, Tex. Locomotive whistle. 1,786,122; Dec. 23.

McFarland, Thomas R., Sawtelle, Calif. Power transmission. 1,786,356; Dec. 23.

McGowan, John. (See Harter, Harvey, assignor.)

McIntosh, Charles J., Milwaukee, assignor to Federal Steel Sash Company, Waukesha, Wis. Window-sash fastener. 1,786,019; Dec. 23.

McIntyre, Edna M., et al., executrix. (See Cox, G. C., and McIntyre.)

McIntyre, Henry K. (See Cox, G. C., and McIntyre.)

McIntyre, John G., et al., executors. (See Cox, G. C., and McIntyre.)

McIntyre, Malcolm, et al., executors. (See Cox, G. C., and McIntyre.)

McKinney, Wendell R., assignor of one-half to B. E. Post, Kansas City, Mo. Explosive engine. 1,785,909; Dec. 23.

McLanahan-Stone Machine Company. (See Krider, George E., assignor.)

McWilliams, James B., Pittsburgh, assignor to Railway Maintenance Corporation, Aspinwall, Pa. Conveying apparatus. 1,786,020; Dec. 23.

Meehan, William H., Springfield, Mass. Fish-rod holder. 1,786,254; Dec. 23.

Meister, Conrad L., and C. R. Sugg, Wilmington, N. C. Speed-changing device. 1,785,839; Dec. 23.

Merchen, Glen G., Spokane, Wash. Counterbalance stabilizer. 1,786,216; Dec. 23.

Merritt, Clarence E. (See Grover, W. H., Pooley, and Merritt.)

Met-L-Wood Corporation. (See Lewis, George K., assignor.)

Mettetal, Raphael, Plymouth, Mich. Machine for laying paper mulch. 1,786,021; Dec. 23.

Meyercord, George R., Chicago, Ill., assignor to The Vitrolite Company, Parkersburg, W. Va. Refrigerator structure and making the same. 1,786,078; Dec. 23.

Mielke, Ferdinand, Cleveland, Ohio. Balancing apparatus. 1,786,079; Dec. 23.

Miller, Clarke C., assignor to Standard Oil Company, Whiting, Ind. Apparatus for distilling hydrocarbon oils. 1,786,357; Dec. 23.

Miller, George H., Decatur, Ill. Automatic clothesline fastener. 1,786,359; Dec. 23.

Miller, Harry G., Denver, Colo. Driving head for small lathes. 1,786,022; Dec. 23.

Miller, Harry G., Denver, Colo. Valve-centering device. 1,786,023; Dec. 23.

Miller, Herbert F., jr. (See Downs, G. F., and Miller.)

Miller, J. E. (See Ward, Joseph, assignor.)

Miller, Max C., Cumberland, R. I. Knitting machine. 1,786,255; Dec. 23.

Miller, Stuart P., Philadelphia, Pa., assignor to The Barrett Company. Flotation material and making same. 1,785,742; Dec. 23.

Milner, Henry K., Birmingham, Ala., assignor to M. K. Moore, Charleston, S. C. Grate. 1,786,358; Dec. 23.

Mirror Display Co., The. (See Smith, Le Roy W., assignor.)

Mix, Edwin S., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Leather and producing the same. 1,785,966; Dec. 23.

Mix, Edwin S., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt for personal wear. 1,785,967; Dec. 23.

Modern Auto Repair and Reconstructing Company. (See Solomon, Aaron R., assignor.)

Mohr, Julius, Milwaukee, Wis. Toy vehicle. 1,785,783; Dec. 23.

Monrad, Karl J., assignor to Chr. Hansen's Laboratory, Inc., Little Falls, N. Y. Butter coloring. 1,786,256; Dec. 23.

Moody, Lewis F., Philadelphia, Pa. Hydraulic turbine. 1,786,166; Dec. 23.

Moore, Morton K. (See Milner, Henry K., assignor.)

Moore, Robert A., assignor to Multiple Selling Corporation, New York, N. Y. Safety lamp lock. 1,786,409; Dec. 23.

Morányzky, Mátyás, New York, N. Y. Aeroplane. 1,786,217; Dec. 23.

Morgan Construction Company. (See George, Jerome R., assignor.)

Morgan Hurrycane Company, The. (See Morgan, William H., assignor.)

Morgan, Ted, et al. (See Walker, Jerry S., assignor.)

Morgan, William H., Alliance, Ohio, assignor, by mesne assignments, to The Morgan Hurrycane Company, New York, N. Y. Cane cutter. 1,785,743; Dec. 23.

Morrison, Louis, New York, N. Y. Fountain pen or similar article. Des. 82,897; Dec. 23.

Mosier, Wilhelm, and E. Tod, assignors to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Key-operating arrangement for short-wave tube transmitters. 1,786,257; Dec. 23.

Mowrey, Lester D., et al. (See Welsh, Ralph B., assignor.)

Moxley, Stephen D., Birmingham, Ala., assignor to Sand Spun Patents Corporation, New York, N. Y. Flask-handling device. 1,786,218; Dec. 23.

Moyer, Fredellia H. (See Speer, J. R., and Moyer.)

Muller, Edward J., Princeton, N. J. Vacuum cleaner. 1,785,873; Dec. 23.

Müller, Fritz. (See Hoffa, E., and Müller.)

Multiple Selling Corporation. (See Moore, Robert A., assignor.)

Mundt, Theodorus W., Biltboven, Netherlands. Turntable. 1,786,258; Dec. 23.

Monroe, Treadway B., assignor to The Celotex Company, Chicago, Ill. Production of fibers for wall board and similar structures. 1,785,840; Dec. 23.

Murphey, George P., Philadelphia, Pa. Recording instrument. 1,785,874; Dec. 23.

Murphy, William B., Crandall, Tex. Novelty chair. 1,786,123; Dec. 23.

Murphy, William B., Crandall, Tex. Detachable cultivator sweep. 1,786,124; Dec. 23.

Myers, Albert J., assignor to The Koppers Company, Pittsburgh, Pa. Rotary grizzly. 1,785,841; Dec. 23.

Myers, Hubert A., assignor to The Myers Regulator Company, Toledo, Ohio. Window regulator. 1,785,784; Dec. 23.

Myers Regulator Company, The. (See Myers, Hubert A., assignor.)

Naamlooze Vennootschap: Glasfabriek "Leerdam" voorheen Jeckel, Mijnssen & Co. (See van Dijck, Willem J. D., assignor.)

National Aniline & Chemical Company. (See Dieterle, Paul, assignor.)

National Aniline & Chemical Company. (See Spalding, William L., assignor.)

National Aniline & Chemical Company. (See West, Byron L., assignor.)

National Appliance Company, The. (See Kurtz, Cyrus B., assignor.)

National Carbon Co. (See Greider, Clarence E., assignor.)

National Carbon Company. (See Heise, G. W., and Brokate, assignors.)

National Company. (See Wilson, Clarence E., assignor.)

National Electric Products Corporation. (See Clayton, Martin M., assignor.)

National Pneumatic Company. (See Forman, Paris R., assignor.)

National Vision-Tone Corporation. (See von Madaler, Ferdinand, assignor.)

Nellis, Carl P., and A. H. Flower, assignors to The Inland Manufacturing Company, Dayton, Ohio. Mixing cotton fiber and bituminous materials. 1,785,910; Dec. 23.

Neuwirth, Herman, Brooklyn, N. Y. Barometer. 1,786,219; Dec. 23.

New Britain Machine Company, The. (See Contes, J. H., Howe, and Costello, assignors.)

Newhouse, Ray C., Wilmette, Ill. Cement manufacture. 1,786,080; Dec. 23.

New Jersey Seating Co. (See Schmidt, James R., assignor.)

Newkirk, Burt L., Schenectady, N. Y., assignor to General Electric Company. Process and apparatus for cleaning liquid mercury and the like. 1,786,312; Dec. 23.

Newton, Andy. (See Fugle, C. H., Ostenberg, Maglein, Trudo, and Newton.)

Nicholson, John P., and J. W. McAllister, Notre Dame, Ind.; said McAllister assignor to said Nicholson. Sprint-starting appliance. 1,785,968; Dec. 23.

Nobles, Edward, Pocatello, Idaho. Line-pole-setting device. 1,786,360; Dec. 23.

Nomanu Elektrische Apparate G. m. b. H. (See Thielmann, Sebastian, assignor.)

Norheim, Alfred. (See Hönningstad, A., Arneson, and Norheim).

Norma-Hoffmann Bearings Corporation. (See Barrett, Geoffrey F., assignor.)

Norton, Raymond J., Washington, D. C., assignor to Bendix Brake Company, South Bend, Ind. Brake-shoe structure. 1,785,969; Dec. 23.

Norton, Sir James Farmer, & Company. (See Bosshard, Arnold, assignor.)

Norviel, Harry E., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Electric switch. 1,785,911; Dec. 23.

Norviel, Harry E., Anderson, Ind., assignor to General Motors Corporation. Electric switch. 1,785,912; Dec. 23.

Noser, Charles P., Rochester, assignor to The Symington Company, New York, N. Y. Railway truck. 1,785,970; Dec. 23.

Nourse, Walter H., assignor to Electric Steel Foundry Co., Portland, Oreg. Swivel butt hook. 1,786,081; Dec. 23.

Nowak, Alois K., et al. (See Nowak, A. K., and Dinzl, assignors.)

Nowak, Alois K., Chicago, Ill., and R. W. Dinzl, Philadelphia, Pa., assignors to A. K. Nowak, Chicago, Ill., and F. H. Smith, Akron, Ohio. Briquetting machine. 1,786,167; Dec. 23.

Nystrom, A. J., & Co. (See Swanson, Frank H., assignor.)

O'Connor, Christopher D., Santa Barbara, Mex. Man-power horse boat. 1,785,971; Dec. 23.

Oglesby, Nicholas E., Edgewood, Md. Process and apparatus for generating smoke screens. 1,785,744; Dec. 23.

Ohio Parts Company, The. (See Terrell, H. C., and Kerkhoff, assignors.)

Oh'er, A. J., et al. (See Baker, James C., assignor.)

O'Kane, Walter C., Durham, N. H. Fungicide and insecticide. 1,786,125; Dec. 23.

Old Colony Distributing Company. (See Blondin, Michel C., assignor.)

Oliva, Vincent, assignor to Grand Central Wicker Shop, Inc., New York, N. Y. Chair or the like. Des. 82,898; Dec. 23.

Olson, John B. (See Markey, G. T., and Olson.)

Olson, John B., assignor to James Manufacturing Company, Fort Atkinson, Wis. Poultry waterer. 1,786,024; Dec. 23.

Olson, John B., and G. T. Markey, assignors to James Manufacturing Company, Fort Atkinson, Wis. Feeding apparatus. 1,785,785; Dec. 23.

Olson, Olof. (See Palmer, Walter T., assignor.)

Opperman, August H., Indianapolis, Ind. Hair-waving apparatus. 1,786,313; Dec. 23.

Osborne, Ralph W., Toronto, Ontario, Canada. Communicating system. 1,785,972; Dec. 23.

Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,785,973; Dec. 23.

Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,785,974; Dec. 23.

Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,786,259; Dec. 23.

Ostenberg, Charles H. (See Fugle, C. H., Ostenberg, Maglein, Trudo, and Newtno.)

Owens Development Corporation. (See Owens, Freeman H., assignor.)

Owens, Freeman H., New York, N. Y. Optical system for reproducing sound records. 1,786,025; Dec. 23.

Owens, Freeman H., New York, N. Y. Talking-picture apparatus. 1,786,026; Dec. 23.

Owens, Freemen H., New York, N. Y. Apparatus for reproducing photographic sound records. 1,786,027; Dec. 23.

Owens, Freeman H., assignor to Owens Development Corporation, New York, N. Y. Optical printer. 1,786,220; Dec. 23.

Owens-Illinois Glass Company. (See Fuerst, Edwin W., assignor.)

Owens, Robert H., assignor to The P. H. & F. M. Roots Company, Connersville, Ind. Fluid-handling apparatus. 1,785,842; Dec. 23.

Oxford Varnish Corporation. (See Casto, Lloyd V., assignor.)

Pahl, August, Berlin-Wilmersdorf, Germany. Production of filter sieves and sieves produced by such process. 1,786,361; Dec. 23.

Palatini, Thomas, Belmar, N. J. Plastering machine. 1,786,362; Dec. 23.

Palmer, Walter T., assignor of one-half to O. Olson, Des Moines, Iowa. High-thermal-efficiency furnace. 1,786,082; Dec. 23.

Pannier Bros. Stamp Company. (See Pannier, Oscar M., assignor.)

Pannier, Oscar M., assignor to Pannier Bros. Stamp Company, Inc., Pittsburgh, Pa. Stamping head. 1,786,028; Dec. 23.

Parkersburg Rig & Reel Company, The. (See Schwemlein, William, assignor.)

Partington, Charles H., Cincinnati, Ohio. Switch stand. 1,786,260; Dec. 23.

Partridge, Fred J. (See Baird, A. M., and Partridge.)

Pascucci, Attilio R., Providence, R. I., assignor to Haverhill Shoe Novelty Company, Haverhill, Mass. Shoe ornament. Des. 82,899; Dec. 23.

Pascucci, Attilio R., Providence, R. I., assignor to Haverhill Shoe Novelty Company, Haverhill, Mass. Shoe ornament. Des. 82,900; Dec. 23.

Pascucci, Attilio R., Providence, R. I., assignor to Haverhill Shoe Novelty Company, Haverhill, Mass. Shoe ornament. Des. 82,901; Dec. 23.

Passmel, Anthony J., Valley City, N. Dak. Trip-rope holder. 1,786,314; Dec. 23.

Pate, Thomas G., Liberal, Kans. Burglar-guard apparatus. 1,786,363; Dec. 23.

Paterson, Alexander, Buffalo, N. Y. Rolling and annealing sheet metal. 1,785,786; Dec. 23.

Patton, Frederick W., Victoria, British Columbia, Canada. Multiple-saw woodworking machine. 1,786,168; Dec. 23.

Payman, Joseph B., et al. (See Gibson, W., Henshaw, and Payman.)

Pellegrino, Vincenzo, Rye, N. Y. Safety parachute device for aeroplanes. 1,786,169; Dec. 23.

Pelton, George M., assignor to The Filer & Stowell Company, Milwaukee, Wis. Receding mechanism. 1,786,261; Dec. 23.

Pelz, Otto A., Brooklyn, N. Y. Automobile theft alarm. 1,785,875; Dec. 23.

Penn, Albert, assignor to Penn Electric Switch Co., Des Moines, Iowa. Automatic temperature-controlling device. 1,786,083; Dec. 23.

Penn Electric Switch Co. (See Penn, Albert, assignor.)

Perwatco Manufacturing Co. (See Watson, Hugh W., assignor.)

Peterson, Carl D., Syracuse, N. Y., assignor to Brown Pipe Gear Company. Transmission dampener. 1,786,408; Dec. 23.

Peterson, George H., Bloomfield, N. J., and W. A. Rhodes, New York, N. Y., assignors to American Telephone and Telegraph Company. Telephone system. 1,785,818; Dec. 23.

Pew, Arthur E., jr., Bryn Mawr, and H. Thomas, Ridley Park, assignors to Sun Oil Company, Philadelphia, Pa. Cracking mineral oil. 1,786,315; Dec. 23.

Phillips, Clayton L., Hamden, assignor to Sargent & Company, New Haven, Conn. Burglar-proof key bolt. 1,786,221; Dec. 23.

Phillips, John H., Chicago, Ill. Tool holder. 1,786,029; Dec. 23.

Phillips, Leland A., Rochester, N. Y. Humidor for inked ribbons. 1,785,975; Dec. 23.

Phinn, George A., Pasadena, Calif. Porch curtain. 1,786,084; Dec. 23.

Pilates, Joseph, New York, N. Y. Catapult. 1,785,876; Dec. 23.

Pillatzke, John M., Minneapolis, Minn. Method and apparatus for drying and burning molded ware. 1,786,364; Dec. 23.

Pilling, Charles J., Lansdowne, assignor to The George P. Pilling & Son Company, Philadelphia, Pa. Surgical suction and pressure apparatus. 1,785,745; Dec. 23.

Pilling, Charles J., Lansdowne, assignor to The George P. Pilling & Son Company, Philadelphia, Pa. Surgical suction and pressure apparatus. 1,785,746; Dec. 23.

Pilling, George P., & Son Company, The. (See Pilling, Charles J., assignor.)

Pilot Ray Corporation. (See Cronkhite, Charles M., assignor.)

Pitt, William A., Montreal, Quebec, Canada, assignor of forty-nine percent to F. Summer, New York, N. Y. Train-lighting apparatus. 1,786,401; Dec. 23.

Pittsburgh Screw and Bolt Corporation. (See Shrum, Peter J., assignor.)

Pooley, William S. (See Grover, W. H., Pooley, and Merritt.)

Pope, Elmer R., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe machine. 1,785,843; Dec. 23.

Pope, Elmer R., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoemaking. 1,786,030; Dec. 23.

Poppelman, Carl, Racine, Wis. Grinder. 1,786,262; Dec. 23.

Porter, Jacob N., assignor to The Globe Brick Company, East Liverpool, Ohio. Vertical fiber grooved-lug paving brick. 1,785,976; Dec. 23.

Post, Berr E. (See McKinney, Wendell R., assignor.)

Potter, Thomas L., Portland, Oreg. Multiple refrigerator system. 1,786,222; Dec. 23.

Potvin, Ernest N., San Pedro, Salif. Hair drier. 1,786,223; Dec. 23.

Prager Co. (See Prager, James G., assignor.)

Prager, James G., Worcester, Mass., assignor to Prager Co., Inc. Wall paper or similar material. Des. 82,902; Dec. 23.

Prager, James G., Worcester, Mass., assignor to Prager Co., Inc. Wall paper or similar material. Des. 82,903; Dec. 23.

Prarat, Alfred E., Gridley, Calif. Chicken nest. 1,786,126; Dec. 23.

Prat-Daniel Corporation. (See Whiton, L. C., jr., and Hardigg, assignor.)

Preble, Normal H., assignor to The Cecil R. Lambert Company, Detroit, Mich. Control mechanism for conveyers. 1,786,085; Dec. 23.

Prentice G. E. Manufacturing Company. (See Legat, Robert C., assignor.)

Presser, Albert, assignor to the firm Dornier-Metallbauten, G. m. b. H., Friedrichshafen-on-the-Bodensee, Germany. Steering aircraft. 1,785,913; Dec. 23.

Prest-O-Lite Storage Battery Corporation. (See Benner, R. C., and Chaney, assignors.)

Prince & Company. (See Prince, Earl S., assignor.)

Prince, Earl S., assignor to Prince & Company, Sterling, Ill. Merchandise booth. Des. 82,904; Dec. 23.

Pritchard, Amos D., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. System for charging storage batteries. 1,786,086; Dec. 23.

Pruyn, Samuel R., Chicago, Ill. Shock absorber for guns. 1,785,977; Dec. 23.

Pucar, Theodore, assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Fastener-setting machine. 1,786,087; Dec. 23.

Pucar, Theodore, assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Feeding device for pronged fasteners. 1,786,088; Dec. 23.

Pugh, Emerson. (See Heimberger, H. T., and Pugh.)

Pungs, Wilhelm, Ludwigshafen-on-the-Rhine, and M. Jahrstorfer, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Hardening paraffin, waxes, and the like. 1,786,263; Dec. 23.

Pyle-National Company, The. (See Ganzert, Albert E., assignor.)

Quinn, Joseph, Brooklyn, N. Y. Cutter tool. 1,785,978; Dec. 23.

Quintard, Daniel S., New York, N. Y. Curtain or portière holder. 1,786,365; Dec. 23.

Radio Corporation of America. (See Wolff, Irving, assignor.)

Radó, Charlos, Budapest, Hungary. Crown-slitting pliers. 1,786,127; Dec. 23.

Railway Maintenance Corporation. (See McWilliams, James B., assignor.)

Rath, Julius, Lippstadt, assignor to the firm Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. Cable-transport drum. 1,786,366; Dec. 23.

Rayfield, Charles L., assignor to Rayfield Manufacturing Co., Chicago, Ill. Thermostatically-operated device. 1,785,787; Dec. 23.

Rayfield Manufacturing Co. (See Rayfield, Charles L., assignor.)

Razor Blade Tile, Incorporated. (See Carlisle, Roy, assignor.)

Recchia, Orlando R., Cranston, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Shoe ornament. Des. 82,905; Dec. 23.

Recchia, Orlando R., Cranston, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Shoe buckle. Des. 82,906; Dec. 23.

Recchia, Orlando R., Cranston, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Shoe buckle. Des. 82,907; Dec. 23.

Recchia, Orlando R., Cranston, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Shoe buckle. Des. 82,908; Dec. 23.

Reed, Sylvanus A., New York, N. Y. Energy-transmission means. 1,786,264; Dec. 23.

Reiter, Otis F., Baltimore, Md., assignor to The Farmers Stone Picking Machine Company. Stone-gathering machine. 1,786,170; Dec. 23.

Reliance Company, The. (See Wilms, G. O., and Dowe, assignors.)

Remington Arms Company. (See Loomis, Crawford C., assignor.)

Reserve Holding Company. (See Sengebusch, Hans, assignor.)

Reserve Holding Company. (See Stehlik, Rudolph F., assignor.)

Reserve Holding Company. (See Tharp, V. S., and Wicks, assignors.)

Rexinger, Otto M., Beverly Hills, Calif. Window grating. Re17,911; Dec. 23.

Rheinische Metallwaaren und Maschinenfabrik Sömmerda Aktiengesellschaft. (See Kottmann, August, assignor.)

Rhodes, William A. (See Peterson, G. H., and Rhodes.)

Riel, Peter S., Buffalo, N. Y. Door latch. 1,785,914; Dec. 23.

Riley, James V., Simcoe, Ontario, Canada. Drying device. 1,786,316; Dec. 23.

Ringle, Robert F., Zellenople, Pa. Molding machine. 1,786,171; Dec. 23.

Robb, Frank M., Belleville, Ontario, Canada. Sound-reproducing instrument. 1,785,915; Dec. 23.

Roberts, William T. B., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening inserting machine. 1,785,844; Dec. 23.

Robinson, John R. (See Seffens, C., and Robinson.)

Robinson, Wilfred, Drawbridge, Calif. Decoy duck. 1,785,788; Dec. 23.

Rochester Folding Box Company. (See Bowersock, Wilber E., assignor.)

Roebling's, John A., Sons Company. (See Sunderland, Charles C., assignor.)

Roeg, Louis M., assignor to Brewer & Company, Incorporated, Worcester, Mass. Mercury derivative of tetraiodo-fluorescein. 1,786,172; Dec. 23.

Rogers, John F., Cleveland Heights, assignor to The Wellman Engineering Company, Cleveland, Ohio. Feed mechanism for gas producers. 1,785,789; Dec. 23.

Rolscreen Company. (See Dixon, Harry, assignor.)

Roots, P. H., & F. M., Company, The. (See Owens, Robert H., assignor.)

Ropp, Franklin N., Hollywood, Calif. Combination joist hanger and tie. 1,786,790; Dec. 23.

Ropp, Franklin N., Hollywood, Calif. Combination joist hanger and tie. 1,785,791; Dec. 23.

Rosch, George J., Marcus, Iowa. Gate bolt. 1,786,265; Dec. 23.

Rosemary Mfg. Co. (See Haug, Herman, assignor.)

Rubel, Chester D., et al. (See Welsh, Ralph B., assignor.)

Rubner, Norbert A., Milwaukee, Wis. Drip pan for toilet flush tanks. 1,785,877; Dec. 23.

Russel, Philip S., assignor to Detroit Lubricator Company, Detroit, Mich. Regulator. 1,786,402; Dec. 23.

Russell, Edelbert. (See Thompson, W. W., and Russell.)

Russell, Gordon W., Brookline, Mass., assignor to James Russell Boiler Works Co. Fire-tube steam boiler. 1,786,317; Dec. 23.

Russell, James, Boiler Works Co. (See Russell, Gordon W., assignor.)

Sakier, George, New York, N. Y., assignor to Fostoria Glass Company, Moundsville, W. Va. Goblet or similar article. Des. 82,909; Dec. 23.

Sand Spun Patents Corporation. (See Moxley, Stephen D., assignor.)

Sanford, John W., Claremont, N. H., assignor to Sullivan Machinery Company. Automatic compressor-control system. 1,785,979; Dec. 23.

Sanford, John W., Claremont, N. H., assignor to Sullivan Machinery Company. Automatic compressor-control system. 1,785,980; Dec. 23.

Sanford, John W., Claremont, N. H., assignor to Sullivan Machinery Company. Automatic compressor-control system. 1,786,267; Dec. 23.

Sanford, John W., Chicago, Ill., assignor to Sullivan Machinery Company. Compressor-controlling mechanism. 1,786,128; Dec. 23.

Sanford, William C., jr., Cerro de Pasco, Peru. Liquid mixing and cooling device. 1,786,129; Dec. 23.

Sargent & Company. (See Phillips, Clayton L., assignor.)

Sawyer, Wilfred D., Long Beach, assignor to Emsco Derrick & Equipment Company, Los Angeles, Calif. Interchangeable draw-works girt. 1,786,089; Dec. 23.

Schachter, Joseph W., Brooklyn, N. Y. Teapot. 1,785,878; Dec. 23.

Scharpenberg, Charles C., Bakersfield, assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Drilling apparatus. 1,786,173; Dec. 23.

Schaub, Edward J., assignor to Central Glass Works, Wheeling, W. Va. Glass goblet or similar article. Des. 82,910; Dec. 23.

Schleicher, Edward G., Mount Vernon, N. Y. Stabilizing device for aeroplanes. 1,786,266; Dec. 23.

Schmidt, James R., Trenton, N. J., assignor to New Jersey Seating Co., New York, N. Y. Combination chair seat and back. Des. 82,911; Dec. 23.

Schmidt, Paul, and F. V. Malloy, Chicago, Ill. Apparatus for blood transfusion. 1,786,090; Dec. 23.

Schoenfeld, Walter, St. Paul, Minn. Heater for automobile engines. 1,786,130; Dec. 23.

Schotte, Herbert, Berlin-Wilmerdorf, assignor to Chemische Fabrik auf Actien (vorm, E. Schering), Berlin, Germany. Sulphur containing guanidine derivatives and making same. 1,785,916; Dec. 23.

Schrott, Kasimir. (See Wieghardt, P., and Schrott.)

Schuler, Callista O. (See Wilson, R. O., and Schuler.)

Schulte, Walter B., Madison, Wis., assignor to Burgess Battery Company. Battery. 1,785,981; Dec. 23.

Schulz, Arthur P. (See Teller, J., and Schulz.)

Schulze, Wilhelm, Michigan City, Ind. Potato-harvesting machine. 1,786,131; Dec. 23.

Schuster, Jacob H., St. Louis, Mo. Reciprocating-action safety razor. 1,785,917; Dec. 23.

Schwarzkopf, Paul, Reutte, Austria. Producing ferromolybdenum and ferrotungsten. 1,786,393; Dec. 23.

Schweer, Hulda M., New York, N. Y. Textile fabric or similar article of manufacture. Des. 82,912; Dec. 23.

Schwemlein, William, assignor to The Parkersburg Rig & Reel Company, Parkersburg, W. Va. Brake drum. 1,786,132; Dec. 23.

Scott, John W., Bisbee, Ariz. Material carrier. 1,785,982; Dec. 23.

Scott, Lester C., Brooklyn, assignor, by mesne assignments, to Two-Tone Corporation, New York, N. Y. Apparatus for dyeing, coloring, and coating. 1,786,031; Dec. 23.

Sebald, Joseph H., Arlington, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Feed-water heater. 1,785,983; Dec. 23.

Seffens, Clarence, and J. R. Robinson, Parkersburg, W. Va. Changeable exhibitor. 1,786,133; Dec. 23.

Segal Automatic Tweezer Corporation. (See Segal, Samuel, assignor.)

Segal, Samuel, assignor to Segal Automatic Tweezer Corporation, New York, N. Y. Lighter. 1,786,267; Dec. 23.

Seitz, Valentine, Cleveland Heights, assignor to The Cleveland Clinic Foundation, Cleveland, Ohio. Safety device. 1,785,984; Dec. 23.

Selle, Oliver, St. Louis, Mo. Link chain. Des. 82,913; Dec. 23.

Sengebusch, Hans, Villa Park, assignor to Reserve Holding Company, Chicago, Ill. Casing for an impulse-sending machine. Des. 82,914; Dec. 23.

Shaw, Louis E., East Orange, N. J., assignor, by mesne assignments, to Dejur-Amsco Corporation, New York, N. Y. Electric condenser. 1,786,134; Dec. 23.

Shrum, Peter J., Monaca Heights, Pa., assignor to Pittsburgh Screw and Bolt Corporation. Protector. 1,785,985; Dec. 23.

Shukhoff, Vladimir G. (See Capeliuschnicoff, Matvey A., assignor.)

Siemens & Halske Aktiengesellschaft, Wernerwerk. (See Anteri, Michele, assignor.)

Silberman, David, New York, N. Y. Sewing-machine guide for hook tape. 1,786,174; Dec. 23.

Silent, Harold C., Larchmont, N. Y., assignor to American Telephone and Telegraph Company. Prevention of parasitic oscillations. 1,785,819; Dec. 23.

Simons, George A., and G. Freeberg, assignors to Simons Millwork, Inc., Minneapolis, Minn. Corner china closet. Des. 82,915; Dec. 23.

Simons, George A., and G. Freeberg, assignors to Simons Millwork, Inc., Minneapolis, Minn. Corner china closet. Des. 82,916; Dec. 23.

Simons Millwork, Inc. (See Simons, G. A., and Freeberg, assignors.)

Simplex Gold Stamping Press Co. Inc. (See Williams, Frank, assignor.)

Simpson, Frank H. (See James, George H., assignor.)

Sims, Thomas B., Cleburne, assignor to L. J. Wardlaur, Tarrant County, Tex. Sewage-disposal-plant pump. 1,786,032; Dec. 23.

Singer Manufacturing Company, The. (See Chason, Daniel H., assignor.)

Skinner, Ralph L. (See Flognus, Howard A., assignor.)

Small, John D. (See Jones, C. L., and Small.)

Smart Set Shops. (See Wolf, Jacob R., assignor.)

Smith, Charles A. (See Griggs, H. D., and Subira, assignors.)

Smith, Frank H., et al. (See Nowak, A. K., and Dinzl, assignors.)

Smith, Frederick W., Niagara Falls, Ontario, Canada. Indicator for internal-combustion engines. 1,786,034; Dec. 23.

Smith, Harry F., assignor to The Gas Research Company, Dayton, Ohio. Domestic gas-generating system. 1,785,820; Dec. 23.

Smith, Le Roy W., St. Louis County, assignor to The Mirror Display Co., Inc., St. Louis, Mo. Advertising device. 1,786,033; Dec. 23.

Smith, William A., sr., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Feeding device for percussive motors. 1,786,135; Dec. 23.

Smith, William A., sr., Easton, Pa., and J. I. Hulshizer, Stewartsville, assignors to Ingersoll-Rand Company, Jersey City, N. J. Feeding device for percussive motors. 1,786,175; Dec. 23.

Snavely, Carl G., Lewisburg, Pa. Body-protecting shield. 1,786,268; Dec. 23.

Snow, Norman L., assignor to Diamond Power Specialty Corporation, Detroit, Mich. Boiler cleaner. 1,785,821; Dec. 23.

Snyder, George H., Brooklyn, assignor to International Cigar Machinery Company, New York, N. Y. Cigar machine. 1,785,822; Dec. 23.

Society of Chemical Industry in Basle. (See Straub, F., and Anderau, assignors.)

Solomon, Aaron R., assignor to Modern Auto Repair and Reconstructing Company, St. Louis, Mo. Overhead gasoline-engine oiler. 1,786,269; Dec. 23.

Spalding, William L., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Gas-treating apparatus. 1,785,792; Dec. 23.

Speer, James R., Trappe, Md., and F. H. Moyer, Pittsburgh, Pa. Method of and apparatus for rolling sheet metal. 1,785,986; Dec. 23.

Spencer, Hugh M., assignor to The Upson Company, Lockport, N. Y. Water-resistant and fire-resistant fibrous product and making same. 1,786,270; Dec. 23.

Spooner, Albert E., Renfrew, Ontario, Canada. Railroad-crossing gate. 1,785,747; Dec. 23.

Stahl, Frank E., assignor to The Columbus-McKinnon Chain Corporation, Tonawanda, N. Y. Cross chain for antiskid devices. 1,786,318; Dec. 23.

Standard Oil Company. (See Miller, Clarke C., assignor.)

Standard Oil Company of California. (See Scharpenberg, Charles C., assignor.)

Standard Oil Development Company. (See Hunn, Edward B., assignor.)

Starrett, Wendelin D., Alameda, Calif. Transmission gearing. 1,786,319; Dec. 23.

Starriett, Jack C., Gallup, N. Mex. Door and window casing. 1,785,793; Dec. 23.

Stearman Aircraft Company, The. (See Stearman, Lloyd, assignor.)

Stearman, Lloyd, assignor to The Stearman Aircraft Company, Inc., Wichita, Kans. Airplane. 1,786,136; Dec. 23.

Stebbins, Albert H., Los Angeles, Calif. Combined fan and classifier. 1,785,918; Dec. 23.

Stehlik, Rudolph F., Chicago, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Telephone system. 1,786,410; Dec. 23.

Steinemann, Violet D., Los Angeles, Calif. Doll. Des. 82,917; Dec. 23.

Steininger, William, Berwyn, assignor to W. D. Allen Manufacturing Company, Chicago, Ill. Sprinkler. 1,786,035; Dec. 23.

Steinnon, Louis, assignor to Winchester Repeating Arms Co., New Haven, Conn. Double-barreled firearm. 1,785,794; Dec. 23.

Stevermer, Frank. (See Latourelle, J., and Stevermer.)

Stewart, James A., Oakland, assignor to Management and Finance Corporation of California, San Francisco, Calif. Sash mounting. 1,786,036; Dec. 23.

Stewart, Walter C., assignor to E. Frohman, Gastonia, N. C. Yarn-tensioning device. 1,785,987; Dec. 23.

Stickel, Charles W., and W. R. Tuttle, Rochester, N. Y. Tweezers. 1,785,919; Dec. 23.

Stiles, Frank I., Miami, Fla. Boat for submarine inspection. 1,786,091; Dec. 23.

Stimpson, Edwin B., Company. (See Pucar, Theodore, assignor.)

Stock, Johann J. F., Munich, Germany. Method and device of synchronizing cinematographic performance and sound production. 1,786,368; Dec. 23.

Stone, Walter L. (See Andrews, David E., assignor.)
Stonebraker, Harold E., Rochester, N. Y. Case for clinical thermometers. 1,786,271; Dec. 23.
Stoppel, Louis D., Isleton, Calif. Asparagus-cutting machine. 1,785,795; Dec. 23.
Stout, William B., Detroit, assignor to Ford Motor Company, Highland Park, Mich. Airplane control. 1,785,879; Dec. 23.
Stratford, Herbert R., assignor to The Stratmore Company, Cleveland, Ohio. Surfacing apparatus. 1,786,320; Dec. 23.
Stratmore Company, The. (See Stratford, Herbert R., assignor.)
Straub, Fritz, and W. Anderau, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Azo dyestuffs containing metals and making same. 1,786,272; Dec. 23.
Strong, John E., Grand Rapids, Mich. Cabinet for telephones and the like. 1,785,880; Dec. 23.
Stuart, Henry J., New Haven, assignor to The Bassett Metal Goods Company, Inc., Derby, Conn. Hose supporter. 1,786,137; Dec. 23.
Stuesser, Richard, Cologne-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Production of azo dyestuffs and azo dyestuffs obtainable thereby. 1,785,845; Dec. 23.
Sturgis, Herbert M., assignor, by mesne assignments, to L. Hunt, Kansas City, Mo. Mop head. 1,786,037; Dec. 23.
Stutika, John, West Pullman, Ill. Valve-testing gauge. 1,786,092; Dec. 23.
Subira, John B. (See Griggs, H. D., and Subira.)
Sugg, Charles R. (See Meister, C. L., and Sugg.)
Sullivan Machinery Company. (See Boudette, Cornelius G., assignor.)
Sullivan Machinery Company. (See Ferguson, Alexander D, assignor.)
Sullivan Machinery Company. (See Holdsworth, Fred D., assignor.)
Sullivan Machinery Company. (See Holmes, Morris P., assignor.)
Sullivan Machinery Company. (See Hughes, William E., assignor.)
Sullivan Machinery Company. (See Osgood, Charles F., assignor.)
Sullivan Machinery Company. (See Sanford, John W., assignor.)
Sullivan Machinery Company. (See Wilson, Leonard, assignor.)
Summer, Frank. (See Pitt, William A., assignor.)
Sundback, Gideon, Meadville, assignor to Hookless Fastener Company, Meadville, Pa. Separable fastener. 1,785,920; Dec. 23.
Sunderland, Charles C., assignor to John A. Roebling's Sons Company, Trenton, N. J. Wire-testing machine. 1,786,138; Dec. 23.
Sun Oil Company. (See Pew, A. E., jr., and Thomas, assignors.)
Suppes, Max M., assignor to The Fox Furnace Company, Elyria, Ohio. Heating apparatus. 1,786,403; Dec. 23.
Sutcliffe, Edwin A., Oak Park, Ill., assignor to Victor Manufacturing & Gasket Co. Display and index rack. 1,785,988; Dec. 23.
Swann Research, Inc. (See Masin, J. S., and White, assignors.)
Swanson, Frank H., Chicago, Ill., assignor to A. J. Nystrom & Co. Apparatus for map display. 1,786,038; Dec. 23.
Swick, Elda, Clinton, Nebr. Towing hitch. 1,786,093; Dec. 23.
Sylva, John J., assignor to California Cedar Products Company, Stockton, Calif. Slat-edging machine. 1,786,039; Dec. 23.
Symington Company, The. (See Noser, Charles P., assignor.)
Tabulating Machine Company, The. (See Bryce, James W., assignor.)
Taggart, Charles, Detroit, Mich. Railway journal-wedge-grinding device. 1,786,139; Dec. 23.
Takahashi, Katsumi, Aza, Shibuya-Machi, Toyotama-Gori, Japan, assignor to Zaidan Hojin Rikagaku Kenkyujo, Tokyo, Japan. Extracting vitamin A from fish oils and the like. 1,786,095; Dec. 23.
Taube, Carl, Leverkusen-on-the-Rhine, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Manufacture of phenylemercuric acetate. 1,786,094; Dec. 23.
Tavenner, Richard B., Pasadena, Calif. Mechanical pencil. 1,785,881; Dec. 23.
Taylor, George N. (See Marcroft, W., and Taylor.)
Taylor, James E., Cleveland, Ohio. Device for locking screen doors and the like. 1,785,882; Dec. 23.
Taylor, William H., Des Moines, Iowa. Screen mounting. 1,786,040; Dec. 23.
Teague, Walter D., New York, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y. Camera casing or the like. Des. 82,918; Dec. 23.
Teissère, Albert and J., St.-Julien, Aube, France. Apparatus for engraving printing rollers. 1,785,883; Dec. 23.
Teissère, Jean. (See Teissère, A. and J.)
Teller Corporation. (See Teller, J., and Schulz, assignors.)
Teller, Jacob, Chicago, and A. P. Schulz, Berwyn, Ill., assignors to Teller Corporation, Chattanooga, Tenn. Cabinet gas or electric range. Des. 82,919; Dec. 23.
Terrell, Harold C., and F. A. Kerkhoff, assignors to The Ohio Parts Company, Cincinnati, Ohio. Battery-charging connecter. 1,786,369; Dec. 23.
Terry, Matson C., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Refrigerator. 1,786,370; Dec. 23.
Tharp, Victor S., Elmhurst, and J. Wicks, Oak Park, Ill., assignors to Reserve Holding Company, Kansas City, Mo. Automatic toll-service trunking system. 1,786,041; Dec. 23.
Thielmann, Sebastian, Berlin, assignor to Nomanu Elektrische Apparate G. m. b. H., Berlin-Halensee, Germany. Scraping off wooden surfaces. 1,786,096; Dec. 23.
Thiess, Karl, Frankfort-on-the-Main-Hochst, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Azo dyestuffs and material dyed therewith. 1,785,846; Dec. 23.
Thilo, Erich, assignor to A. Heiche, Berlin, Germany. Producing bicalcium phosphate from sulphurous solutions. 1,786,097; Dec. 23.
Thoma, Meinard F., Fitchburg, Mass. Opening and preparing artificial staple fiber for spinning. 1,785,823; Dec. 23.
Thomas, Henry. (See Pew, A. E., jr., and Thomas.)
Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electric-switch device. 1,786,176; Dec. 23.
Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-pipe cut-off valve. 1,786,177; Dec. 23.
Thomas, Thomas H., Edgewood, and J. N. Good, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake. 1,786,178; Dec. 23.
Thompson Products, Incorporated. (See Bissell, Richard E., assignor.)
Thompson, Walter W., and E. Russell, Macomb, Ill. Poultry fount. 1,785,921; Dec. 23.
Thompson, William H., Berkeley, Calif. Gas-compressor unit. 1,786,321; Dec. 23.
Thomson, Volney W., Portsmouth, Ohio. Ash receiver. Des. 82,920; Dec. 23.
Thon, George, Philadelphia, Pa. Tread switch. 1,786,098; Dec. 23.
Titanium Alloy Manufacturing Company, The. (See Kinzie, Charles J., assignor.)
Tod, Erich. (See Moser, W., and Tod.)
Toledo Pipe Threading Machine Company, The. (See Vosper, William W., assignor.)
Toman, E. & Co. (See Toman, Edward, assignor.)
Toman, Edward, assignor to E. Toman & Co., Chicago, Ill. Electric pick up device. 1,786,042; Dec. 23.
Towy, Lillian, Inglewood, Calif. Milk-bottle cap. 1,786,140; Dec. 23.
Tracy, Robert W., assignor to The De Vilbiss Company, Toledo, Ohio. Air brush. 1,786,394; Dec. 23.
Traver, Harry G., Beaver Falls, Pa. Car for amusement rides. 1,785,989; Dec. 23.
Trenkamp, Herman J., Cleveland Heights, Ohio. Smoking pipe. 1,786,179; Dec. 23.
Trinity Wheel Corporation. (See Baker, Frederick W., assignor.)
Tripp, Elwood I. (See Carr, C. W., and Tripp.)
Tripp, John B., jr., Trenton, N. J. Brake-lining stretcher. 1,786,099; Dec. 23.
Troutner, Jesse B., assignor to Marshalltown Trowel Company, Marshalltown, Iowa. Handle for trowels. 1,786,043; Dec. 23.
Trudo, Joseph M. (See Fugle, C. H., Ostenberg, Maglein, Trudo, and Newton.)
Tull, Roger, assignor to Western Lithograph Company, Los Angeles, Calif. Making cloth stencils for multicolor work. 1,785,922; Dec. 23.
Turbine Fuel Oil Burner Co. (See Hurd, Benjamin W., assignor.)
Turner, Andrew L., Depew, Okla. Burglar alarm. 1,786,273; Dec. 23.
Tuttle, William R. (See Stickel, C. W., and Tuttle.)
Two-Tone Corporation. (See Scott, Lester C., assignor.)
Unger, Magnus, Pittsfield, Mass., assignor to General Electric Company. Electric furnace. 1,786,322; Dec. 23.
Union Switch & Signal Company, The. (See Alexander, Vincent S., assignor.)
Union Switch & Signal Company, The. (See Bone, Herbert L., assignor.)
United-Carr Fastener Corporation. (See Carr, Moses F., assignor.)
United Shoe Machinery Corporation. (See Benjamin, John M., assignor.)
United Shoe Machinery Corporation. (See Crowley, John F., assignor.)
United Shoe Machinery Corporation. (See Davis, Alson H., assignor.)
United Shoe Machinery Corporation. (See Fromm, Willy, assignor.)
United Shoe Machinery Corporation. (See Pope, Elmer R., assignor.)
United Shoe Machinery Corporation. (See Roberts, William T. B., assignor.)
U. S. Safety Flange Company. (See Ambrose, Ernest R., assignor.)
Universal Engineers, Inc. (See Arrowood, Milton W., assignor.)
Universal Winding Company. (See Marcroft, W., and Taylor, assignors.)

Upson Company, The. (See Spencer, Hugh M., assignor.)
Usthr Factories for Apparatus and Machines, formerly Zellweger Ltd. (See Hammer, Willibald, assignor.)
Valdés y Valdés, César L., Habana, Cuba. Packing machine. 1,785,824; Dec. 23.
Valentine, Mary C., Cleveland, Ohio. Screw-moving means. 1,785,847; Dec. 23.
Valpey, Frank R., Royal Oak, assignor to Graham-Paige Motors Corporation, Detroit, Mich. Vehicle front-end assembly. 1,786,044; Dec. 23.
Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Removal of smoke from coke ovens. 1,785,748; Dec. 23.
Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Charging vertical retorts. 1,785,749; Dec. 23;
Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Charging coke ovens. 1,785,750; Dec. 23.
Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Apparatus and method of charging a retort. 1,785,751; Dec. 23.
Van Dijck, William J. D., The Hague, assignor to Naamlooze Vennootschazp; Glasfabriek "Leerdam" voorheen Jeekel, Mynssen & Co., Leerdam, Netherlands. Lighting fixture. 1,786,371; Dec. 23.
Vereinigte Stahlwerke Aktiengesellschaft. (See Rath, Julius, assignor.)
Verran, Harry E. (See Kennedy, Charles F., assignor.)
Victor Manufacturing & Gasket Co. (See Sutcliffe, Edwin A., assignor.)
Vilas, Royal C., Golf, Ill. Combined air-circulating fan and heater. 1,785,752; Dec. 23.
Vitrolite Company, The. (See Meyercord, George R., assignor.)
Vogt, Charles H., Philadelphia, Pa. Food product and marketing the same. 1,786,372; Dec. 23.
Vogt, Fritz, Portland, Oreg. Drawer guide. 1,786,045; Dec. 23.
Von Madaler, Ferdinand, Hampton Bays, assignor, by mesne assignments, to National Vision-Tone Corporation, New York, N. Y. Synchronous motion picture and sound reproduction. 1,786,274; Dec. 23.
Von Nessen, Walter, New York, N. Y., assignor to Efcolite Corporation, Trenton, N. J. Lighting fixture or article of similar nature. Des. 82,921; Dec. 23.
Von Nessen, Walter, New York, N. Y., assignor to Efcolite Corporation, Trenton, N. J. Lighting-fixture shade or article of similar nature. Des. 82,922; Dec. 23.
Von Trümbach, Johannes, Dusseldorf-Oberkassel, Germany. Drawing frame with passages for use on spinning machines. 1,786,180; Dec. 23.
Von Trümbach, Johannes, Dusseldorf-Oberkassel, Germany. Device for stopping delivery in spinning and twisting machines on the breaking of the thread. 1,786,275; Dec. 23.
Vosper, William W., assignor to The Toledo Pipe Threading Machine Company, Toledo, Ohio. Pipe vise. 1,785,884; Dec. 23.
Wade, Percy, assignor to The Weldit Company, Washington, D. C. Strain-applying device for metallic material. 1,785,923; Dec. 23.
Wagner Electric Corporation. (See Baker, Paul W., assignor.)
Wagner Electric Corporation. (See Dick, Burns, assignor.)
Walker, Jerry S., assignor of five forty-eighths to J. B. Allen, one-twelfth to C. A. Wilson, one-twelfth to E. C. Wilson, one-twelfth to E. T. Mayes, one-twelfth to E. C. Kelley, one twenty-fourth to S. S. Green, and one forty-eighth to T. Morgan, Seminole, Okla. Aeroplane. 1,786,181; Dec. 23.
Walker, Ralph C., Portland, Oreg. Electrically-heated therapeutical appliance. 1,786,373; Dec. 23.
Wallace, Cyrus H., San Gabriel, Calif. Signal window for automobile doors. 1,785,796; Dec. 23.
Walton, Christian, Chicago, Ill. Boot and shoe construction. 1,786,374; Dec. 23.
Ward, Joseph, assignor of one-tenth to J. E. Miller, Huntington, W. Va. Seed planter. 1,786,100; Dec. 23.
Wardlaur, L. J. (See Sims, Thomas B., assignor.)
Waterbury Tool Company, The. (See Francis, Daniel R., assignor.)
Waters, Charles H., Olympia, assignor to Dumas National Chemical Company, Lacey, Wash. Explosive. 1,786,046; Dec. 23.
Watling, John B., assignor to T. W. B. Watling, Chicago, Ill. Amusement device. 1,785,848; Dec. 23.
Watling, Thomas W. B. (See Watling, John B., assignor.)
Watling, Thomas W. B., Chicago, Ill. Weighing scale. 1,785,849; Dec. 23.
Watson, Harvey L., Mount Pleasant, Iowa. Animal hopple. 1,786,375; Dec. 23.
Watson, Hugh W., Seattle, Wash., assignor to Perwatco Manufacturing Co., Crete, Nebr. Mold. 1,785,797; Dec. 23.
Watt, Sern P. (See Greaves, F. G., and Watt.)
Wayne, Carl D., St. Paul, Minn. Drop cord. 1,786,276; Dec. 23.
Webster, Lewis E., Wilkes-Barre, Pa. Shovel handle. 1,786,376; Dec. 23.
Weisner, Harry, Philadelphia, Pa. Device for holding combs. 1,785,753; Dec. 23.
Weiss, Theobald C., assignor to Electric Sprayit Company, South Bend, Ind. Motor-driven tool. 1,785,798; Dec. 23.
Welch, Charles K., deceased, Coventry, England; A. G. Welch and R. Welch, administrators. Pneumatic tire and wheel. 1,786,101; Dec. 23.
Welch, Gertrude, et al, administrators. (See Welch, Charles K.)
Welch, Roland, et al, administrators. (See Welch, Charles K.)
Weldit Company, The. (See Wade, Percy, assignor.)
Wellman Engineering Company, The. (See Rogers, John F., assignor.)
Welsh, Chester J., assignor to The Conneaut Shovel Company, Conneaut, Ohio. Scraper for cleaning streets and the like. 1,786,328; Dec. 23.
Welsh, Ralph B., Burkburnett, assignor of ten per cent to C. D. Rubel, twenty-four per cent to L. D. Mowrey, and one-fourth to J. H. Coggins, Wichita Falls, Tex. Sand bottom for pumps and ballers. 1,785,990; Dec. 23.
Wensley, Roy J., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Periodic-reclosing circuit-breaker system. 1,786,324; Dec. 23.
Werner, Ervin, Brooklyn, N. Y. Hand scraper. 1,785,754; Dec. 23.
West, Byron L., Hamburg, assignor to National Aniline Chemical Company, Inc., New York, N. Y. Azo coloring matter. 1,785,799; Dec. 23.
West, Ross R., San Mateo, Calif. Vault ventilator. 1,786,277; Dec. 23.
West, Ross R., San Francisco, Calif. Record tray. 1,786,411; Dec. 23.
Western Electric Company. (See Heimberger, H. T., and Pugh, assignors.)
Western Electric Company. (See Martell, Charles, assignor.)
Western Electric Company. (See Martindell, Frank, assignor.)
Western Electric Company. (See Pritchard, Amos D., assignor.)
Western Lithograph Company. (See Tull, Roger, assignor.)
Western Union Telegraph Company, The. (See Griffith, Francis, assignor.)
Westinghouse Air Brake Company, The. (See Dormoy, Jules M. J., assignor.)
Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
Westinghouse Air Brake Company, The. (See Hancock, Milton L., assignor.)
Westinghouse Air Brake Company, The. (See Livingston, Fremont P., assignor.)
Westinghouse Air Brake Company, The. (See McCune, J. C., and Johnson, assignors.)
Westinghouse Air Brake Company, The. (See Thomas, Thomas H., assignor.)
Westinghouse Air Brake Company, The. (See Thomas, T. H., and Good, assignors.)
Westinghouse Electric & Manufacturing Company. (See Batsel, Max C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Terry, Matson C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wensley, Roy J., assignor.)
Wheeler, C. H., Manufacturing Company. (See Kothny, Gottdank L., assignor.)
Wheeling Steel Corporation. (See Kielberg, Henry, assignor.)
Whipple, Nelson E., Windsor, N. Y. Road-sanding device for automobiles. 1,786,377; Dec. 23.
White, Harold E. (See Masin, J. S., and White.)
Whitlock, George E., assignor to The City Auto Stamping Company, Toledo, Ohio. Cushion step tread for automobiles. 1,785,755; Dec. 23.
Whiton, Louis C., jr., and J. C. Hardigg, assignors to Prat-Daniel Corporation, New York, N. Y. Soot blower. 1,786,182; Dec. 23.
Wicks, John. (See Tharp, V. S., and Wicks.)
Wieghardt, Paul, and K. Schrott, Magdeburg, assignors to the firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Machine for winding or covering cables or the like with tape or strip material. 1,786,102; Dec. 23.
Wilbur, Lawrence S., Evanston, Ill. Splice bar or fish-plate. 1,785,850; Dec. 23.
Wilcox, Albert R., Dodge City, Kans. Mechanical hair gland and nerve agitator. 1,786,047; Dec. 23.
Wilhelm, Ottmar, assignor to the firm Maschinenfabrik Augsburg-Nuernberg, Aktiengesellschaft, Augsburg, Germany. Rotary printing machine for combined intaglio and relief printing. 1,785,991; Dec. 23.
Williams, Frank, assignor to Simplex Gold Stamping Press Co. Inc., New York, N. Y. Clamp to be used in connection with embossing machines. 1,785,851; Dec. 23.
Williams, John C., Westport, Conn., and O. W. Greeman, Marion, Ky., assignors to Aluminum Company of America, Pittsburgh, Pa. Recovery of fluorspar from ores thereof. 1,785,992; Dec. 23.
Williams, Leroy E., assignor to Highway Trailer Company, Edgerton, Wis. Flexible cover for dumping bodies. 1,786,048; Dec. 23.
Wilms, Gustav O., and A. J. Dawe, assignors to The Reliance Company, Milwaukee, Wis. Thermostatically-actuated device. 1,785,852; Dec. 23.

Wilson, Clarence E., Concord, assignor to National Company, Inc., Malden, Mass. Gauge-glass illuminator. 1,786,183; Dec. 23.
Wilson, Claud A., et al. (See Walker, Jerry S., assignor.)
Wilson, Emmett C., et al. (See Walker, Jerry S., assignor.)
Wilson, George L., Alhambra, Calif. Flower basket. 1,786,141; Dec. 23.
Wilson, Leonard, Salt Lake City, Utah, assignor to Sullivan Machinery Company. Compressor system. 1,786,278; Dec. 23.
Wilson Rings Company. (See Wilson, Wylie G., assignor.)
Wilson, Rose O., and C. O. Schuler, Saugatuck, Conn. Doll. 1,785,800; Dec. 23.
Wilson, Wylie G., Elizabeth, assignor to Wilson Rings Company, Jersey City, N. J. Mechanical lock and locking method. 1,785,924; Dec. 23.
Winchester Repeating Arms Company. (See Burton, Frank F., assignor.)
Winchester Repeating Arms Co. (See Stiennon, Louis, assignor.)
Wine, William E., Toledo, Ohio. Side bearing. 1,786,378; Dec. 23.
Wine, William E., Toledo, Ohio. Car ladder. 1,786,379; Dec. 23.
Wine, William E., Toledo, Ohio. Corner construction for freight cars. 1,786,380; Dec. 23.
Wine, William E., Toledo, Ohio. Car ladder. 1,786,381; Dec. 23.
Wine, William E., Toledo, Ohio. Corner construction for freight cars. 1,786,382; Dec. 23.
Winthrop Chemical Company. (See Taube, Carl, assignor.)
Wire Novelty Manufacturing Company, The. (See Heather, George B., assignor.)
Wolf, Jacob R., assignor to Smart Set Shops, Pittsburgh, Pa. Store front. Des. 82,923; Dec. 23.
Wolfe, Richard C., assignor to California Consolidated Water Co., Los Angeles, Calif. Water cooler. Des. 82,924; Dec. 23.
Wolff, Irving, New York, N. Y., assignor to Radio Corporation of America. Reflector. 1,786,279; Dec. 23.
Woodbridge, Joseph L., Philadelphia, Pa. Controlling the charge of a storage battery. 1,796,280; Dec. 23.
Woodmansee, Clay G., assignor of one-half to Lincoln Drilling Company, Los Angeles, Calif. Inclinometer. 1,786,184; Dec. 23.
Worthington Pump and Machinery Corporation. (See Sebalt, Joseph H., assignor.)
Wratten, Henry L., Racine, Wis. Boiler. 1,785,756; Dec. 23.
Wright, Virgil, Dallas, Tex. Air cooler. 1,786,185; Dec. 23.
Wyman, Charles A., Auburn, Wash. Baking oven. 1,786,142; Dec. 23.
Young, Cecil R. B., Hamburg, Germany. Purifying natural and artificial matter. 1,786,383; Dec. 23.
Young, Hoylande D., Chicago, Ill. Derivative of glycol. 1,786,404; Dec. 23.
Young, Jacob J., Buffalo, N. Y. Calipers. 1,786,325; Dec. 23.
Young, Lafayette, Alton, Ill., assignor to Laclede Steel Company, St. Louis, Mo. Apparatus for jarring ingot molds. 1,785,757; Dec. 23.
Zaidan Hojin Rikagaku Kenkyujo. (See Takahashi, Katsumi, assignor.)
Zerweck, Werner, Frankfort-on-the-Main-Fechenheim, Germany, assignor to General Aniline Works Inc., New York, N. Y. New brown vat dyestuffs of the anthraquinone series. 1,785,801; Dec. 23.
Zingg, Werner. (See Fröhlich, H., and Zingg.)
Zobel, Frederick C., Brooklyn, N. Y. Rubberlike composition and making same. 1,786,281; Dec. 23.
Zoeller, Milton G., Falls City, Nebr. Stock waterer. 1,786,049; Dec. 23.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 23D DAY OF DECEMBER, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abrasive materials, Production of high-purity. J. S. Masin and H. E. White. 1,786,016; Dec. 23.
Adhesive and method of making, Vegetable. I. F. Laucks and G. Davidson. 1,786,209; Dec. 23.
Adjustable clasp. D. de Plandolit y Bordas. 1,786,187; Dec. 23.
Advertising device. F. J. Garrety. 1,785,948; Dec. 23.
Advertising device. L. W. Smith. 1,786,033; Dec. 23.
Aeronautical indicator. W. Fraser. 1,786,059; Dec. 23.
Aeroplane. H. R. Kriegh. 1,786,307; Dec. 23.
Aeroplane. M. Moránszky. 1,786,217; Dec. 23.
Aeroplane. J. S. Walker. 1,786,181; Dec. 23.
Aeroplane control device. M. Davis. 1,786,193; Dec. 23.
Aeroplanes, Stabilizing device for. E. G. Schleicher. 1,786,266; Dec. 23.
Agricultural dusting machine. R. R. Ezdorf. 1,785,943; Dec. 23.
Air-conditioning system. C. E. Lewis. 1,785,741; Dec. 23.
Air cooler. V. Wright. 1,786,185; Dec. 23.
Aircraft. C. H. Iwanowitz. 1,785,775; Dec. 23.
Aircraft, Steering. A. Presser. 1,785,913; Dec. 23.
Aircraft wing. J. P. Glasby. 1,786,236; Dec. 23.
Airplane. L. Stearman. 1,786,136; Dec. 23.
Airplane control. W. B. Stout. 1,785,879; Dec. 23.
Alarm: *See*—
Burglar alarm.
Alloy, Plastic heat-treated aluminum. N. V. Hybinette. 1,785,774; Dec. 23.
Amino-azo compounds, Making. P. Dieterle. 1,785,769; Dec. 23.
Amusement device. J. B. Watling. 1,785,848; Dec. 23.
Anchor, Earth. A. B. Chance. 1,786,228; Dec. 23.
Animal hopple. H. L. Watson. 1,786,375; Dec. 23.
Appliance for operating upon sheets. J. E. Doyle. 1,786,153; Dec. 23.
Ash receiver. V. W. Thomson. Des. 82,920; Dec. 23.
Asparagus-cutting machine. L. D. Stoppel. 1,785,795; Dec. 23.
Atomizer. C. S. Gage and C. T. Maeding. Des. 82,882; Dec. 23.
Automobile handling device. E. B. Anderson 1,786,282; Dec. 23.
Automobile theft alarm. O. A. Pelz. 1,785,875; Dec. 23.
Azo coloring matter. B. L. West. 1,785,799; Dec. 23.
Balancing apparatus. F. Mielke. 1,786,079; Dec. 23.
Bandage, Surgical. M. C. Edmundson. 1,785,831; Dec. 23.
Barometer. H. Neuwirth. 1,786,219; Dec. 23.
Base to hold nozzles and supply pipes. F. P. Bucklein. 1,786,146; Dec. 23.
Basket, Flower. F. P. and A. A. Gruenholz. 1,786,062; Dec. 23.
Basket, Flower. G. L. Wilson. 1,786,141; Dec. 23.
Batteries, System for charging storage. A. D. Pritchard. 1,786,086. Dec. 23.
Battery: *See*—
Chicken battery.
Battery. W. B. Schulte. 1,785,981; Dec. 23.
Battery-charging connector. H. C. Terrell and F. A. Kerkhoff. 1,786,369; Dec. 23.
Battery, Controlling the charge of a storage. J. L. Woodbridge. 1,796,280; Dec. 23.
Battery-plate building. H. P. Dodge. 1,785,939; Dec. 23.
Beach rest and sunshade. G. Hanan. 1,785,953; Dec. 23.
Bearing, Side. W. E. Wine. 1,786,378; Dec. 23.
Bed or couch, Folding. C. H. House. 1,785,865; Dec. 23.
Belt for personal wear. E. S. Mix. 1,785,967; Dec. 23.
Bicalcium phosphate from submarine solutions, Producing. E. Thilo. 1,786,097; Dec. 23.
Blood transfusion, Apparatus for. P. Schmidt and F. V. Malloy. 1,786,090; Dec. 23.
Board: *See*—
Drain board.
Boat for submarine inspection. F. I. Stiles. 1,786,091; Dec. 23.
Boat, Man-power horse. C. D. O'Connor. 1,785,971; Dec. 23.
Boiler: *See*—
High-pressure boiler.
Boiler. R. J. Adams. 1,785,758; Dec. 23.
Boiler. H. L. Wratten. 1,785,756; Dec. 23.
Boiler cleaner. N. L. Snow. 1,785,821; Dec. 23.
Bolt: *See*—
Gate bolt. Key bolt.
Boot and shoe construction. C. Walton. 1,786,374; Dec. 23.
Booth, Merchandise. E. S. Prince. Des. 82,904; Dec. 23.
Bottle cap, Milk-. L. Towy. 1,786,140; Dec. 23.
Bowl or article of similar nature, Flower. T. C. Helsey. Dec. 82,888; Dec. 23.
Box: *See*—
Journal box.
Boxes to their hangers, Device for securing outlet. O. E. Logan. 1,786,353; Dec. 23.
Bracket: *See*—
Lamp bracket.
Brake: *See*—
Electropneumatic brake.
Brake apparatus, Hydraulic. B. Dick. 1,786,231; Dec. 23.
Brake drum. W. Schwemlein. 1,786,132; Dec. 23.
Brake-lining stretcher. J. B. Tripp, jr. 1,786,099; Dec. 23.
Brake-operating mechanism. V. Bendix and D. L. Gallup. 1,785,854; Dec. 23.
Brake-shoe structure. R. J. Norton. 1,785,969; Dec. 23.
Brick, Vertical fiber grooved-lub paving. J. N. Porter. 1,785,976; Dec. 23.
Briquetting machine. A. K. Nowak and R. W. Dinzl. 1,786,167; Dec. 23.
Brush, Air. R. W. Tracy. 1,786,394; Dec. 23.
Brush, Fountain. J. Flockhart. 1,785,732; Dec. 23.
Brush, Shaving. M. C. Blondin. 1,786,224; Dec. 23.
Brush, Vacuum. W. J. Amstutz. 1,786,384; Dec. 23.
Buckle, Shoe. C. W. Brigham. Des. 82,873–6; Dec. 23.
Buckle, Shoe. C. G. King. Des. 82,893; Dec. 23.
Buckle, Shoe. O. R. Recchia. Des. 82,906–8; Dec. 23.
Burglar alarm. A. L. Turner. 1,786,273; Dec. 23.
Burner: *See*—
Furnace burner. Gas burner.
Burner control. B. W. Hurd. 1,786,068; Dec. 23.
Burring machines, Automatic feed for. J. A. Flowers. 1,785,862; Dec. 23.
Button loop. G. B. Heather. 1,785,735; Dec. 23.
Cabinet, Filing. L. J. Hart. 1,786,112; Dec. 23.
Cabinet for telephones and the like. J. E. Strong. 1,785,880; Dec. 23.
Cable connection for batteries. C. P. Hill. 1,786,206; Dec. 23.
Cable-raising device. C. H. Fugle, C. H. Ostenberg, A. W. Maglein, J. M. Trudo, and A. Newton. 1,785,811; Dec. 23.
Cable-transport drum. J. Rath. 1,786,366; Dec. 23.
Cake and making same, Ice-cream. D. A. Battista. 1,786,387; Dec. 23.
Calendar. M. H. Davis. 1,786,280; Dec. 23.
Calender rolls and the like, Mounting of. G. F. Barrett. 1,785,886; Dec. 23.
Calipers. J. J. Young. 1,786,325; Dec. 23.
Cam. J. P. Hess. 1,785,736; Dec. 23.
Camera casing or the like. W. D. Teague. Des. 82,918; Dec. 23.
Candy molding. R. W. Hompe. 1,785,904; Dec. 23.
Cane cutter. W. H. Morgan. 1,785,743; Dec. 23.
Car for amusement rides. H. G. Traver. 1,785,989; Dec. 23.
Car retarder, Railway-. H. L. Bone. 1,786,286; Dec. 23.
Carbon dioxide, Storage and transportation of solid. C. L. Jones and J. D. Small. 1,786,161; Dec. 23.
Cards in large lots for inspection of same, Equipment or attachment to expedite handling of. D. W. B. Kurtz, jr. 1,785,815; Dec. 23.
Carrier: *See*—
Insulated carrier. Material carrier.
Lumber carrier.
Carton, Egg. E. E. Hale. 1,785,898; Dec. 23.
Case for clinical thermometers. H. E. Stonebraker. 1,786,271; Dec. 23.
Casing, Door and window. J. C. Starriett. 1,785,793; Dec. 23.
Casing for an impulse-sending machine. H. Sengebusch. Des. 82,914; Dec. 23.
Casing head. G. A. Humason. 1,786,407; Dec. 23.
Catapult. J. Pilates. 1,785,876; Dec. 23.
Cement manufacture. B. C. Newhouse. 1,786,080; Dec. 23.
Chain for antiskid devices, Cross. F. E. Stahl. 1,786,318; Dec. 23.
Chain, Link. O. Selle. Des. 82,913; Dec. 23.
Chain pliers. F. F. Fox. 1,785,946; Dec. 23.
Chair: *See*—
Novelty chair.
Chair or the like. V. Oliva. Des. 82,898; Dec. 23.
Chair seat and back, Combination. J. R. Schmidt. Des. 82,911; Dec. 23.
Chandelier bowl, Ceiling diffuser. K. R. Crumpton. Des. 82,878; Dec. 23.

Chart for submitting advertising matter. H. J. Huene. 1,785,866; Dec. 23.
Check, Rebound. G. W. Elsey. 1,785,893; Dec. 23.
Chicken battery. W. H. Davis. 1,785,858; Dec. 23.
China closet, Corner. G. A. Simons and G. Freeberg. Des. 82,915–16; Dec. 23.
Chuck. D. B. Bullard. 1,786,147; Dec. 23.
Chute, Mail. M. Katz. 1,785,867; Dec. 23.
Cigar machine. G. H. Snyder. 1,785,822; Dec. 23.
Cinematographic performance and sound production, Method and device of synchronizing. J. J. F. Stock. 1,786,368; Dec. 23.
Circuit-breaker system, Periodic-reclosing. R. J. Wensley. 1,786,324; Dec. 23.
Circuit closer. W. H. Grover, W. S. Pooley, and C. E. Merritt. 1,786,391; Dec. 23.
Circuit control, Electric. I. C. Hanson. 1,785,773; Dec. 23.
Circuit interrupter. W. A. Chryst. 1,785,887; Dec. 23.
Clamp for crossbars. M. M. Clayton. 1,786,004; Dec. 23.
Clamp to be used in connection with embossing machines. F. Williams. 1,785,851; Dec. 23.
Clamping collar. V. A. de Vulitch. 1,786,107; Dec. 23.
Clasp: *See*—
Adjustable clasp.
Cleaner: *See*—
Boiler cleaner. Vacuum cleaner.
Cleaning composition. L. Kirschbraun. 1,786,249; Dec. 23.
Clock, Electrically-wound. A. B. Campbell. 1,786,288; Dec. 23.
Closure, Bottle. L. F. Dalton. 1,785,890; Dec. 23.
Cluster enrobing machine. W. C. Drury. 1,786,108; Dec. 23.
Coating apparatus. E. G. Lanzi. 1,785,835; Dec. 23.
Cock, Angle. F. P. Livingston. 1,786,212; Dec. 23.
Cock device, Angle. C. C. Farmer. 1,786,198; Dec. 23.
Coin-collecting apparatus. M. Auteri. 1,785,994; Dec. 23.
Coin-controlled mechanism. G. F. Hochriem. 1,786,014; Dec. 23.
Color printing and color photography, Securing accurate color values in. C. Blecher. 1,785,997; Dec. 23.
Coloring, Butter. K. J. Monrad. 1,786,256; Dec. 23.
Combs, Device for holding. H. Weisner. 1,785,753; Dec. 23.
Communication system. R. W. Osborne. 1,785,972; Dec. 23.
Compressor. A. J. Asmussen. 1,785,853; Dec. 23.
Compressor. E. A. Hobart. 1,786,242; Dec. 23.
Compressor-control system, Automatic. J. W. Sanford. 1,785,979–80; Dec. 23.
Compressor-control system, Automatic. J. W. Sanford. 1,786,367; Dec. 23.
Compressor-controlling mechanism. J. W. Sanford. 1,786,128; Dec. 23.
Compressor drive. N. A. Christensen. 1,786,003; Dec. 23.
Compressor system. W. E. Hughes. 1,786,114; Dec. 23.
Compressor system. L. Wilson. 1,786,278; Dec. 23.
Compressor unit, Gas-. W. H. Thompson. 1,786,321; Dec. 23.
Concrete structures, Construction of the expansion joint of reenforced. B. Bauer. 1,786,284; Dec. 23.
Condenser, Electric. L. E. Shaw. 1,786,134; Dec. 23.
Condenser for mixed vapors. G. L. Kothny. 1,786,163; Dec. 23.
Condenser unit for mechanical refrigerators. H. W. Bundy. 1,786,000; Dec. 23.
Connecter for electric train lights and the like. A. E. Ganzert. 1,785,734; Dec. 23.
Control device. H. J. L. Frank. 1,786,010; Dec. 23.
Control equipment, Automatic. E. L. Hough. 1,786,303; Dec. 23.
Control means for variable-speed transmissions. D. R. Francis. 1,785,733; Dec. 23.
Control mechanism for conveyers. N. H. Preble. 1,786,085; Dec. 23.
Control system. R. Y. McCullough. 1,786,310; Dec. 23.
Controlling device. B. W. Jones. 1,786,306; Dec. 23.
Controlling mechanism. F. D. Holdsworth. 1,785,956; Dec. 23.
Controlling mechanism for drying tumblers. E. J. Carroll. 1,786,191; Dec. 23.
Conveying apparatus. J. B. McWilliams. 1,786,020; Dec. 23.
Cooker, Electric. P. Itzi. 1,786,345; Dec. 23.
Cooking outfit. T. L. Lynam. 1,786,120; Dec. 23.
Cooler: *See*—
Air cooler.
Cooling tower, Atmospheric. G. T. Martin. 1,786,076; Dec. 23.
Copyholders, Intermittent grip device for. H. Harter. 1,786,344; Dec. 23.
Corn-popping apparatus, Stirring mechanism for. C. Cretors. 1,786,005; Dec. 23.
Corner construction for freight cars. W. E. Wine. 1,786,380; Dec. 23.
Corner construction for freight cars. W. E. Wine. 1,786,382; Dec. 23.
Cotton chopper and cultivator, Cross-row. A. Hightower. 1,786,241; Dec. 23.
Cotton fiber and bituminous materials, Mixing. C. P. Nellis and A. H. Flower. 1,785,910; Dec. 23.
Counterbalance. C. H. Bergquist. 1,786,143; Dec. 23.
Counterbalance stabilizer. G. G. Merchen. 1,786,216; Dec. 23.
Coupler, Train-pipe. E. O. Hermann. 1,786,066; Dec. 23.
Coupling. H. Maries. 1,785,870; Dec. 23.
Cover for dumping bodies, Flexible. L. E. Williams. 1,786,048; Dec. 23.
Cover for plumbing fixtures, Protective. J. H. McCann. 1,785,872; Dec. 23.
Cover, Garment. C. B. Gilbert. 1,786,341; Dec. 23.
Crosshead. J. O. McArthur. 1,786,121; Dec. 23.
Cultivator. J. Beaudry. 1,786,388; Dec. 23.
Cultivator. G. Hardie. 1,785,901; Dec. 23.
Cultivator sweep, Detachable. W. B. Murphy. 1,786,124; Dec. 23.
Currency-stamping machines having counting mechanism, Control device of. U. Kohler. 1,786,251; Dec. 23.
Curtain fixture. J. H. Boye. 1,786,052; Dec. 23.
Curtain, Porch. G. A. Phinn. 1,786,084; Dec. 23.
Cushion step tread for automobiles. G. E. Whitlock. 1,785,755; Dec. 23.
Cutter: *See*—
Cane cutter. Slitting cutter.
Cutting machine. O. E. Jacques. 1,786,346; Dec. 23.
Decoy duck. W. Robinson. 1,785,788; Dec. 23.
Di-alkyl urea. T. L. Davis. 1,785,730; Dec. 23.
Differential motion for traversing card grinding rollers. J. Dronsfield. 1,785,731; Dec. 23.
Display and index rack. E. A. Sutcliffe. 1,785,988; Dec. 23.
Display device. A. Mayer. 1,786,258; Dec. 23.
Doll. V. D. Steineman. Des. 82,917; Dec. 23.
Doll. R. O. Wilson and C. O. Schuler. 1,785,800; Dec. 23.
Doll-head structure. S. Marcus. 1,785,781; Dec. 23.
Drag conveyer, Universal. F. Griffith. 1,786,343; Dec. 23.
Drain board. F. Geiger. 1,785,771; Dec. 23.
Drapery rod. R. N. McClure. 1,785,838; Dec. 23.
Draw-works girt, Interchangeable. W. D. Sawyer. 1,786,089; Dec. 23.
Drawer guide. F. Vogt. 1,786,045; Dec. 23.
Drier: *See*—
Hair drier.
Drilling apparatus. C. C. Scharpenberg. 1,786,173; Dec. 23.
Drive for the stepped drums of calculating machines. A. Kottmann. 1,786,164; Dec. 23.
Drive or clutch mechanism for winches. J. E. Le Bus. 1,786,351; Dec. 23.
Drop cord. C. D. Wayne. 1,786,276; Dec. 23.
Drying device. J. V. Riley. 1,786,316; Dec. 23.
Drying machine. H. Koplin. 1,786,349; Dec. 23.
Dual fan-dusting machine. R. R. Ezdorf and A. J. Brown. 1,785,945; Dec. 23.
Dust separator. A. Jordahl. 1,786,208; Dec. 23.
Duster, Broadcast. R. R. Ezdorf and A. J. Brown. 1,785,944; Dec. 23.
Dusting and spraying machine. A. J. Brown and R. R. Ezdorf. 1,785,932; Dec. 23.
Dusting machine. A. J. Brown and R. R. Ezdorf. 1,785,933; Dec. 23.
Dyeing, coloring, and coating, Apparatus for. L. C. Scott. 1,786,031; Dec. 23.
Dyestuffs and azo dyestuffs obtainable thereby, Production of azo. R. Stuesser. 1,785,845; Dec. 23.
Dyestuffs and material dyed therewith, Azo. K. Thiess. 1,785,846; Dec. 23.
Dyestuffs containing metals and making same, Azo. F. Straub and W. Anderau. 1,786,272; Dec. 23.
Dyestuffs of the anthraquinone series, New brown vat. W. Zerweck. 1,785,801; Dec. 23.
Elastic reciprocating member. S. A. Guiberson, jr. 1,786,012; Dec. 23.
Electric furnace. M. Unger. 1,786,322; Dec. 23.
Electric pick-up device. E. Toman. 1,786,042; Dec. 23.
Electric switch. H. E. Norviel. 1,785,911–2; Dec. 23.
Electropneumatic brake. T. H. Thomas and J. N. Good. 1,786,178; Dec. 23.
Enamels, Producing vitreous. C. J. Kinzie. 1,785,777; Dec. 23.
Energy-transmission means. S. A. Reed. 1,786,264; Dec. 23.
Engine: *See*—
Explosive engine. Starter engine.
Internal-combustion engine.
Engine and supercharging device, Two-cycle internal-combustion. M. H. Crimmins. 1,786,106; Dec. 23.
Engines, Air-regulating device for internal-combustion. A. Balash. 1,785,726; Dec. 23.
Engines, Automatic air-inlet valve for internal-combustion. J. L. Ardern. 1,786,283; Dec. 23.
Excavating machine, Earth-. A. Clark. 1,786,335; Dec. 23.
Exercising device, Mechanical. H. E. McCoy. 1,786,165; Dec. 23.
Exhibitor, Changeable. C. Seffens and J. R. Robinson. 1,786,133; Dec. 23.
Explosive. C. H. Waters. 1,786,046; Dec. 23.
Explosive engine. W. R. McKinney. 1,785,909; Dec. 23.
Fabrics, Method and apparatus for stretching. A. Bosshard. 1,786,188; Dec. 23.
Fan. W. T. Barker. 1,786,051; Dec. 23.
Fan and classifier, Combined. A. H. Stebbins. 1,785,918; Dec. 23.
Fan and heater, Combined air-circulating. R. C. Vilas. 1,785,752; Dec. 23.

Fastener. F. L. Jensen. 1,786,115; Dec. 23.
Fastener Automatic clothesline. G. H. Miller. 1,786,359; Dec. 23.
Fastener, Casement-window. A. J. Johnson. 1,786,247; Dec. 23.
Fastener, Separable. R. C. Legat. 1,785,740; Dec. 23.
Fastener, Separable. G. Sundback. 1,785,920; Dec. 23.
Fastener-setting machine. T. Pucar. 1,786,087; Dec. 23.
Fastener, Window-sash. C. J. McIntosh. 1,786,019; Dec. 23.
Fasteners, Feeding device for pronged. T. Pucar. 1,786,088; Dec. 23.
Fastening distributor. W. Fromm. 1,785,832; Dec. 23.
Fastening-inserting machine. W. T. B. Roberts. 1,785,844; Dec. 23.
Fastening installation. M. F. Carr. 1,785,825; Dec. 23.
Fastening means for belts. R. S. Fowler. 1,785,947; Dec. 23.
Fats and oils, Production of neutral. O. Jordan and G. Kraemer. 1,786,248; Dec. 23.
Feeder. G. T. Markey and J. B. Olson. 1,785,782; Dec. 23.
Feeding apparatus. J. B. Olson and G. T. Markey. 1,785,785; Dec. 23.
Ferromolybdenum and ferrotungsten, Producing. P. Schwarzkopf. 1,786,393; Dec. 23.
Fibers for wall board and similar structures, Production of. T. B. Munroe. 1,785,840; Dec. 23.
Fibrous product and making, Water-resistant and fire-resistant. H. M. Spencer. 1,786,270; Dec. 23.
Film, Transparent. C. E. Greider. 1,786,205; Dec. 23.
Firearm. C. C. Loomis. 1,786,213; Dec. 23.
Firearm, Double-barreled. L. Stiennon. 1,785,794; Dec. 23.
Firearm, Multiple-barrel. F. F. Burton. 1,785,765; Dec. 23.
Firearms, Barrel stop for breakdown. F. F. Burton. 1,785,764; Dec. 23.
Flanges for automobile wheels, Structure of auxiliary. E. R. Ambrose. 1,786,389; Dec. 23.
Flash-light switch. H. M. Koretzky. 1,785,868; Dec. 23.
Flask-handling device. S. D. Moxley. 1,786,218; Dec. 23.
Flotation material and making same. S. P. Miller. 1,785,742; Dec. 23.
Fluid-handling apparatus. R. H. Owens. 1,785,842; Dec. 23.
Fluid separator. G. D. Bradshaw. 1,785,931; Dec. 23.
Fluorspar from ores thereof, Recovery of. J. C. Williams and O. W. Greeman. 1,785,992; Dec. 23.
Flying boats, Stub wing of. C. Dornier. 1,785,892; Dec. 23.
Folding ironing table. C. Danielson. 1,786,008; Dec. 23.
Food products and marketing the same. C. H. Vogt. 1,786,372; Dec. 23.
Fount, Poultry. W. W. Thompson and E. Russell. 1,785,921; Dec. 23.
Frame. A. Entenman. 1,786,197; Dec. 23.
Frame for car trucks, Side. M. H. Martin. 1,785,871; Dec. 23.
Frame with passages for use on spinning machines, Drawing. J. Von Trümbach. 1,786,180; Dec. 23.
Friction surface. H. F. Busch. 1,786,190; Dec. 23.
Fruit and the like, Apparatus for treating. E. M. Brogden. 1,786,405; Dec. 23.
Fuel-briquette forming and baking machine. W. C. Carpenter. 1,785,827; Dec. 23.
Fungicide and insecticide. W. C. O'Kane. 1,786,125; Dec. 23.
Furnace and method of burning fuel. M. W. Arrowood. Re17,908; Dec. 23.
Furnace burner. F. X. Hamberger. 1,785,900; Dec. 23.
Fuse cut-out for electric circuits. J. Brown and E. Barrett. 1,786,333; Dec. 23.
Galvanic cell. G. W. Heise and C. W. Brokate. 1,786,406; Dec. 23.
Gas burner. F. J. Cancianich. 1,786,396; Dec. 23.
Gas-generating system, Domestic. H. F. Smith. 1,785,820; Dec. 23.
Gas heater. H. Kielberg. Des. 82,891; Dec. 23.
Gas heater, Radiant. H. Kielberg. Des. 82,892; Dec. 23.
Gas producers, Feed mechanism for. J. F. Rogers. 1,785,789; Dec. 23.
Gas-treating apparatus. W. L. Spalding. 1,785,792; Dec. 23.
Gases, Apparatus for purifying. S. C. Cutler. 1,786,150; Dec. 23.
Gases, Transferring liquefied. C. W. P. Heylandt. 1,786,159; Dec. 23.
Gasket. M. M. Cody. 1,786,390; Dec. 23.
Gate: *See*—
Railroad-crossing gate.
Gate bolt. G. J. Rosch. 1,786,265; Dec. 23.
Gauge: *See*—
Valve-testing gauge.
Gauge. E. J. Ford. 1,786,339; Dec. 23.
Gauge-glass illuminator. C. E. Wilson. 1,786,183; Dec. 23.
Gearing, Reduction. C. L. Hawes. 1,786,158; Dec. 23.
Gearing, Transmission. W. D. Starrett. 1,786,319; Dec. 23.
Generator: *See*—
Motor generator.
Glare shield. P. J. Groenenstein. 1,786,011; Dec. 23.
Glass plate or article of similar nature. T. C. Heisey. Des. 82,887; Dec. 23.
Glass purification. G. C. Cox and H. K. McIntyre. 1,785,888; Dec. 23.
Glove. A. J. Bruggeman. 1,786,227; Dec. 23.
Glycol, Derivative of. H. D. Young. 1,786,404; Dec. 23.
Goblet or similar article. G. Sakier. Des. 82,909; Dec. 23.
Goblet or similar article, Glass. E. J. Schaub. Des. 82,910; Dec. 23.
Grass digger, Quack E. R. Bradley 1,786,226; Dec. 23.
Grate. H. K. Milner. 1,786,358; Dec. 23.
Grate for metallic sheets. J. R. Freeze. 1,785,863; Dec. 23.
Grating, Window. O. M. Rexinger. Re17,911; Dec. 23.
Grinder. C. Poppelman. 1,786,262; Dec. 23.
Grinding device, Railway journal-wedge-. C. Taggart. 1,786,139; Dec. 23.
Grizzly, Rotary. A. J. Myers. 1,785,841; Dec. 23.
Guard apparatus, Burglar. T. G. Pate. 1,786,363; Dec. 23.
Gum exudates, Reclaiming or improving. C. Martell. 1,786,075; Dec. 23.
Gun, Machine. R. F. Hudson. 1,786,207; Dec. 23.
Hair drier. E. N. Potvin. 1,786,223; Dec. 23.
Hair gland and nerve agitator, Mechanical. A. R. Wilcox. 1,786,047; Dec. 23.
Hairpin. H. M. Armstrong. 1,785,885; Dec. 23.
Hair-waving apparatus. A. H. Opperman. 1,786,318; Dec. 23.
Handkerchief. W. O. Line. 1,785,962; Dec. 23.
Handle: *See*—
Shovel handle.
Handle for trowels. J. R. Troutner. 1,786,043; Dec. 23.
Handle or similar article, Motor vehicle door. G. Graff. Des. 82,883; Dec. 23.
Harrow. D. D. Dickinson. 1,786,194; Dec. 23.
Hasp. R. M. Hallam and W. E. Amberg. 1,785,772; Dec. 23.
Hat making. F. M. Bartlett and B. F. Hartwell. 1,786,327; Dec. 23.
Headlights, Operating mechanism for dirigible. C. M. Cronkhite. 1,786,007; Dec. 23.
Heater: *See*—
Water heater.
Heater for automobile engines. W. Schoenfeld. 1,786,130; Dec. 23.
Heating apparatus. M. M. Suppes. 1,786,403; Dec. 23.
Heating apparatus for the carburated mixture. G. Ferrara. 1,786,233; Dec. 23.
Heel-attaching device. L. Cipollina. 1,785,808; Dec. 23.
Helicopter. G. Matta. 1,786,017; Dec. 23.
High-pressure boiler. J. E. Bell. 1,785,927; Dec. 23.
Holder, Brush. P. W. Baker. 1,785,996; Dec. 23.
Holder, Collar. B. Blecher. Des. 82,895; Dec. 23.
Holder, Curtain or portiere. D. S. Quintard. 1,786,365; Dec. 23.
Holder, Fish-rod. W. H. Meehan. 1,786,254; Dec. 23.
Holder for confectionery. E. F. Kemp. 1,786,392; Dec. 23.
Holder for heated devices. H. T. Heimberger and E. Pugh. 1,786,065; Dec. 23.
Holder for the sound boxes of talking machines, Needle. J. Eigenheer. 1,786,232; Dec. 23.
Holder, Paper. H. G. Knoth. 1,786,250; Dec. 23.
Holder, Tool. J. H. Phillips. 1,786,029; Dec. 23.
Holder, Trimming. W. Marshall. 1,786,073; Dec. 23.
Holder, Trip-rope. A. J. Passmel. 1,786,314; Dec. 23.
Hollow articles of cementitious material, Apparatus for forming. D. E. Andrews. 1,786,385; Dec. 23.
Hook: *See*—
Swivel butt hook.
Horn, Vacuum-operated. J. C. McCune and S. Johnson, jr. 1,786,214; Dec. 23.
Hot-air-register construction. G. S. Auer. 1,785,993; Dec. 23.
Humidifier for wall registers. C. A. Besch. 1,786,331; Dec. 23.
Humidor for inked ribbons. L. A. Phillips. 1,785,975; Dec. 23.
Hydroxythinaphthenes, Preparing. E. Hoffa and F. Müller. 1,785,813; Dec. 23.
Ignition timer. F. J. Hardman. 1,785,902; Dec. 23.
Inclinometer. C. G. Woodmansee. 1,786,184; Dec. 23.
Incubator P. J. Etteldorf. 1,785,942; Dec. 23.
Index tab and method. R. A. Maish. 1,785,780; Dec. 23.
Indicator for internal-combustion engines. F. W. Smith. 1,786,034; Dec. 23.
Indicator for weighing scales. F. C. Fisher. 1,786,058; Dec. 23.
Induction meter. H. Fröhlich. 1,786,157; Dec. 23.
Induction meter. H. Fröhlich and W. Zingg. 1,786,156; Dec. 23.
Ingot molds, Apparatus for jarring. L. Young. 1,785,757; Dec. 23.
Insulated carrier. H. A. Gardner. 1,786,340; Dec. 23.
Insulator, Electric. R. T. Lobdell. 1,785,816; Dec. 23.
Internal-combustion engine. E. R. Burtnett. 1,786,287; Dec. 23.
Internal-combustion engine, Air-cooled. H. A. Flogaus. 1,785,861; Dec. 23.
Jack: *See*—
Screw jack.
Jar. E. W. Fuerst. Des. 82,881; Dec. 23.
Jarring machine. E. B. Brooke. 1,785,998; Dec 23.
Joint: *See*—
Railroad-track joint.
Joist hanger and tie, Combination. F. N. Ropp. 1,785,790–1; Dec. 23.
Journal box, Automatically-lubricating. M. F. Baur. 1,786,104; Dec. 23.

Key bolt, Burglarproof. C. L. Phillips. 1,786,221; Dec. 23.
Key-operating arrangement for short-wave tube transmitters. W. Moser and E. Tod. 1,786,257; Dec. 23.
Knitting machine. M. C. Miller. 1,786,255; Dec. 23.
Ladder, Car. W. E. Wine. 1,786,379; Dec. 23.
Ladder, Car. W. E. Wine. 1,786,381; Dec. 23.
Lamp. L. O. Brown. Des. 82,877; Dec 23
Lamp bracket, Electric-. P. Ceasar. 1,785,767; Dec. 23.
Lamp lock, Safety. R. A. Moore. 1,786,409; Dec. 23.
Latch, Door. P. S. Riel. 1,785,914; Dec. 23
Latches, Remote control mechanism for door. W. Marshall and P. Camiener. 1,786,074; Dec. 23.
Lathes, Driving head for small. H. G. Miller. 1,786,022; Dec. 23.
Leather and producing the same. E. S. Mix. 1,785,966; Dec. 23.
Lens attachment for eyeglasses, Auxiliary. G. Gravitt. 1,786,204; Dec. 23.
Level. L. Lea and J. A. Hawthorne, jr. 1,786,309; Dec. 23.
Light: *See*—
Vehicle light.
Lighter. S. Segal. 1,786,267; Dec. 23.
Lighting apparatus, Train-. W. A. Pitt. 1,786,401; Dec. 23.
Lighting fixture. W. J. D. van Dijck. 1,786,371; Dec. 23.
Lighting fixture or article of similar nature. W. von Nessen. Des. 82,821; Dec. 23.
Liquid mixing and cooling device. W. C. Sanford, jr. 1,786,129; Dec. 23.
Liquids, Apparatus for mixing. F. Duwe. 1,786,009; Dec. 23.
Liquids, Automatic dispenser for. E. Herbst and H. Kobler. 1,786,302; Dec. 23.
Lock: *See*—
Lamp lock. Tank-closure lock.
Steering-shaft lock.
Lock and locking method, Mechanical. W. G. Wilson. 1,785,924; Dec. 23.
Lock and vacuum sweepers, Handle. D. E. Lesperance. 1,786,210; Dec. 23.
Lock switch. A. E. Koffer. 1,785,906; Dec. 23.
Locking device. C. O. B. Lofgren. 1,786,352; Dec. 23.
Locking screen doors and the like, Device for. J. E. Taylor. 1,785,882; Dec. 23.
Locomotive. M. K. Ingoldby. 1,786,304; Dec. 23.
Lubricating apparatus for the flanges of wheels of engines or vehicles traveling upon railway tracks. C. Buclon. 1,786,334; Dec. 23.
Lumber carrier. F. G. Greaves and S. P. Watt. 1,786,060; Dec. 23.
Machine casing, Article-dispensing-. E. Kanter and E. Feldman. Des. 82,890; Dec. 23.
Machine for laying paper mulch. R. Mettetal. 1,786,021; Dec. 23.
Machine for winding or covering cables or the like with tape or strip material. P. Wieghardt and K. Schrott. 1,786,102; Dec. 23.
Machine or apparatus for treating foods or the like. M. Harrison. 1,786,800; Dec. 23.
Manifold. E. S. MacPherson. 1,785,869; Dec. 23.
Map display, Apparatus for. F. H. Swanson. 1,786,038; Dec. 23.
Match splints, Impregnating. C. C. Haferkamp and W. J. Elder. 1,785,864; Dec. 23.
Material carrier. J. W. Scott. 1,785,982; Dec. 23.
Materials, Apparatus for treating. F. Martindell. 1,786,416; Dec. 23.
Mercury and the like, Process and apparatus for cleaning liquid. B. L. Newkirk. 1,786,312; Dec. 23.
Mercury derivative of tetra-iodo-fluo-rescein. L. M. Roeg. 1,786,172; Dec. 23.
Mercury-tube switch, Delayed-action. I. E. McCabe. 1,786,018; Dec. 23.
Metal coating and process and apparatus for producing the same, Protective. C. G. Fink and C. H. Eldridge. 1,786,398; Dec. 23.
Metal, Rolling and annealing sheet. A. Paterson. 1,785,786; Dec. 23.
Metallic material, Strain-applying device for. P. Wade. 1,785,923; Dec. 23.
Meter: *See*—
Induction meter.
Mill housing, Rolling-. J. R. George. 1,786,296; Dec. 23.
Mining apparatus. M. P. Holmes. 1,785,959; Dec. 23.
Mining apparatus. M. P. Holmes. 1,786,244; Dec. 23.
Mining apparatus. C. F. Osgood. 1,785,974; Dec. 23.
Mining apparatus. C. F. Osgood. 1,786,259; Dec. 23.
Mining machine. C. G. Boudette. 1,786,225; Dec. 23.
Mining machine. M. P. Holmes. 1,785,957–8; Dec. 23.
Mining machine. M. P. Holmes. 1,785,960–1; Dec. 23.
Mining machine. M. P. Holmes. 1,786,243; Dec. 23.
Mining machine. C. F. Osgood. 1,785,973; Dec. 23.
Mold: *See*—
Vulcanizing mold.
Mold. H. W. Watson. 1,785,797; Dec. 23.
Mold for casting metals. W. F. Eppensteiner. 1,785,941; Dec. 23.
Molded ware, Method and apparatus for drying and burning. J. M. Pillatzke. 1,786,364; Dec. 23.
Molding machine. R. F. Ringle. 1,786,171; Dec. 23.
Mop head. H. M. Sturgis. 1,786,037; Dec. 23.
Motor generator. G. D. Major. 1,785,965; Dec. 23.
Motors, Feeding device for percussive. W. A. Smith, sr. 1,786,135; Dec. 23.
Motors, Feeding device for percussive. W. A. Smith, sr., and J. I. Hulshizer. 1,786,175; Dec. 23.
Music rack and cane, Combined. J. Latourelle and F. Stevermer. 1,786,308; Dec. 23.
Nailing machine. J. M. Benjamin. 1,785,928; Dec. 23.
Nest, Chicken. A. E. Prarat. 1,786,126; Dec. 23.
Net, Fish. G. W. Greene. 1,786,342; Dec. 23.
Novelty chair. W. B. Murphy. 1,786,123; Dec. 23.
Nozzle, Atomizing jet. H. Adams. 1,785,802; Dec. 23.
Nozzle, Atomizing mixing. H. Adams. 1,785,803; Dec. 23.
Nozzle, Locomotive exhaust-steam. A. Lymburner. 1,785,907; Dec. 23.
Nut, Lockable bolt. R. W. Fishback. 1,786,201; Dec. 23.
Oil burning, Process for. H. Adams. 1,785,804; Dec. 23.
Oil, Cracking mineral. A. E. Pew, jr., and H. Thomas. 1,786,315; Dec. 23.
Oil, Method of and apparatus for atomizing fuel. H. Adams. 1,785,805; Dec. 23.
Oiler, Overhead gasoline-engine. A. R. Solomon. 1,786,269; Dec. 23.
Oils, Apparatus for distilling hydrocarbon. C. C. Miller. 1,786,357; Dec. 23.
Oils, Method of and apparatus for treating hydrocarbon. J. W. Const, jr., and G. T. Granger. 1,786,053; Dec. 23.
Oils, Purification of hydrocarbon. E. B. Hunn. 1,786,246; Dec. 23.
1-ω-aminomethyl-naphthalene sulphonic acids. W. Herzberg and H. Lange. 1,785,955; Dec. 23.
Opening and preparing artificial staple fiber for spinning. M. F. Thoma. 1,785,823; Dec. 23.
Ophthalmic mounting. S. E. Bouchard. 1,785,929; Dec. 23.
Optical printer. F. H. Owens. 1,786,220; Dec. 23.
Optical system for reproducing sound records. F. H. Owens. 1,786,025; Dec. 23.
Ores and other substances, Apparatus for high-temperature treatment of. M. Fourment. 1,786,202; Dec. 23.
Ornament, Shoe. A. R. Pascucci. Des. 82,899–901; Dec. 23.
Ornament, Shoe. O. R. Recchia. Des. 82,905; Dec. 23.
Outlet construction. R. M. Callaway. 1,785,766; Dec. 23.
Oven. R. Burt. 1,785,763; Dec. 23.
Oven, Baking. C. A. Wyman. 1,786,142; Dec. 23.
Ovens, Charging coke. J. van Ackeren. 1,785,750; Dec. 23.
Packer, Cotton. A. Hightower. 1,786,240; Dec. 23.
Packing device, Corner-cushion-pad. W. E. Bowersock. 1,786,189; Dec. 23.
Packing machine. C. L. Valdés y Valdés. 1,785,824; Dec. 23.
Pan for toilet flush tanks, Drip. N. A. Rubner. 1,785,877; Dec. 23.
Parachute device for aeroplanes, Safety. V. Pellegrino. 1,786,169; Dec. 23.
Paraffin, waxes, and the like, Hardening. W. Pungs and M. Jahrstorfer. 1,786,263; Dec. 23.
Parasitic oscillations, Prevention of. H. C. Silent. 1,785,819; Dec. 23.
Partition construction. M. A. Callaghan. 1,785,826; Dec. 23.
Peat mining. M. N. Korelin. 1,785,739; Dec. 23.
Pen or similar article, Fountain. L. Morrison. Des. 82,897; Dec. 23.
Pens, Device for timely opening and closing of the flap of fountain. R. P. Markstein. 1,786,355; Dec. 23.
Pencil, Mechanical. R. B. Tavenner. 1,785,881; Dec. 23.
Phenylmercuric acetate, Manufacturing of. C. Taube. 1,786,094; Dec. 23.
Phosphates, Manufacture of triaryl. W. Gibson, C. R. Henshaw and J. P. Payman. 1,785,951; Dec. 23.
Picture and sound reproduction, Synchronous motion. F. Von Madaler. 1,786,274; Dec. 23.
Picture apparatus, Talking. F. H. Owens. 1,786,026; Dec. 23.
Pile fabric and making the same. M. G. Curtis. 1,785,937; Dec. 23.
Pipe: *See*—
Smoking pipe.
Pipe vise. W. W. Vosper. 1,785,884; Dec. 23.
Pipes from veneer, Manufacturing drain. A. Hönningstad, A. Arneson, and A. Norheim. 1,786,245; Dec. 23.
Pipes, Method and apparatus for making seamless. A. Mazza. 1,786,215; Dec. 23.
Piston. G. P. Heiner. 1,785,903; Dec. 23.
Planter, Seed. L. Batchelor. 1,785,926; Dec. 23.
Planter, Seed. J. Ward. 1,786,100; Dec. 23.
Plastering machine. T. Palatini. 1,786,362; Dec. 23.
Plate mounting. L. V. Casto. 1,786,001–2; Dec. 23.
Pliers, Crown-splitting. C. Rádo, Budapest, Hungary, 1,786,127; Dec. 23.
Plow. W. H. Madden. 1,785,964; Dec. 23.
Pole-setting device, Line-. E. Nobles. 1,786,360; Dec. 23.
Port construction and gas burner for open-hearth furnaces. G. F. Downs, and H. F. Miller, jr. 1,786,293; Dec. 23.
Potato-harvesting machine. W. Schulze. 1,786,131; Dec. 23.
Power braking apparatus. J. M. J. Dormoy. 1,786,195; Dec. 23.
Power transmission. T. R. McFarland. 1,786,356; Dec. 23.
Press: *See*—
Printing press.
Pressboard. G. K. Lewis. 1,786,211; Dec. 23.

Pressure control, Apparatus for. T. H. Carpenter. 1,785,807; Dec. 23.
Printing device. A. J. Keck. 1,785,833; Dec. 23.
Printing machine for combined intaglio and relief printing, Rotary. O. Wilhelm. 1,785,991; Dec. 23.
Printing mechanism, Record-controlled. J. W. Bryce. 1,785,999; Dec. 23.
Printing press. W. M. Kelly. 1,786,116; Dec. 23.
Printing presses, Multicolor attachment for flat-bed web-. P. F. Cox. 1,786,336; Dec. 23.
Printing rollers, Apparatus for engraving. A. Teissère and J. Teissère. 1,785,883; Dec. 23.
Prints, Apparatus for making registered. H. C. Jones. 1,786,070; Dec. 23.
Propeller mechanism for aircraft. F. Donohue, jr. 1,786,338; Dec. 23.
Protector. P. J. Shrum. 1,785,985; Dec. 23.
Pump, Car-washing. E. A. Hobart. Des. 82,889; Dec. 23.
Pump, Deep-well. M. H. Kilgore. 1,785,834; Dec. 23.
Pump, Sewage-disposal plant. T. B. Sims. 1,786,032; Dec. 23.
Pump, Vacuum condensation. A. C. Durdin, jr. 1,786,055; Dec. 23.
Pumping apparatus. A. C. Durdin, jr. 1,786,056; Dec. 23.
Pumps and bailers, Sand bottom for. R. B. Welsh. 1,785,990; Dec. 23.
Purifying natural and artificial matter. C. R. B. Young. 1,786,383; Dec. 23.
Rabbit carrier for dog-racing tracks, Overhead. W. C. Le Mire. 1,785,837; Dec. 23.
Rack or similar article, Bottle. C. L. Marcus. Des. 82,896; Dec. 23.
Radiocabinet. F. W. Falck. Des. 82,879; Dec. 23.
Radio receiving system. M. C. Batsel. Re17,909; Dec. 23.
Radiotube. W. B. Driver. 1,786,154; Dec. 23.
Railroad code-transmitting device. S. Ennes. 1,785,940; Dec. 23.
Railroad-crossing gate. A. E. Spooner. 1,785,747; Dec. 23.
Railroad-track joint. E. De Grace. 1,785,810; Dec. 23.
Range, Cabinet gas or electric. J. Teller and A. P. Schulz. Des. 82,919; Dec. 23.
Rasp or file. V. E. Lento. 1,785,836; Dec. 23.
Razor-blade-disposal tile. R. Carlisle. 1,785,855; Dec. 23.
Razor, Reciprocating-action safety. J. H. Schuster. 1,785,917; Dec. 23.
Razor, Safety. J. Currie. 1,785,889; Dec. 23.
Receding mechanism. G. M. Pelton. 1,786,261; Dec. 23.
Recording instrument. G. P. Murphey. 1,785,874; Dec. 23.
Reflector. I. Wolff. 1,786,279; Dec. 23.
Refrigerating apparatus. R. H. Chilton. 1,785,857; Dec. 23.
Refrigerating apparatus. J. R. Fehr. 1,785,860; Dec. 23.
Refrigerating apparatus. T. M. Gunn. 1,786,110; Dec. 23.
Refrigerating system, Multiple. T. I. Potter. 1,786,222; Dec. 23.
Refrigerator. M. C. Terry. 1,786,370; Dec. 23.
Refrigerator, Dispensing. F. S. Hayes. 1,785,954; Dec. 23.
Refrigerator structure and making the same. G. R. Meyercord. 1,786,078; Dec. 23.
Regulating system. G. R. McDonald. 1,786,311; Dec. 23.
Regulator: *See*—
Window regulator.
Regulator. P. S. Russel. 1,786,402; Dec. 23.
Relay mechanism, Meter-controlled. R. P. Brown. 1,785,761; Dec. 23.
Resinous composition and making same. T. F. Bradley. 1,785,930; Dec. 23.
Resuscitator. D. N. Lambert. 1,786,350; Dec. 23.
Retort, Apparatus and method of charging a. J. van Ackeren. 1,785,751; Dec. 23.
Retort with quenching device and method for same, Coke. J. Becker. 1,785,760; Dec. 23.
Retorts, Charging vertical. J. van Ackeren. 1,785,749; Dec. 23.
Rod: *See*—
Drapery rod.
Roof for closed cars, Panel. E. B. Malcolm. 1,785,908; Dec. 23.
Rubber articles, Vulcanizing hollow. H. A. Denmire. 1,786,290; Dec. 23.
Rubber, Reclaimed. C. H. Campbell. 1,786,149; Dec. 23.
Rubberlike composition and making same. F. C. Zobel. 1,786,281; Dec. 23.
Safety appliance for gas burners. F. J. Cancianich. 1,786,395; Dec. 23.
Safety device. W. W. Criley. 1,786,006; Dec. 23.
Safety device. V. Seitz. 1,785,984; Dec. 23.
Safety device for boilers. W. Beutel. 1,786,144; Dec. 23.
Safety device for tanks. A. Davis, jr. 1,785,729; Dec. 23.
Sanding device for automobiles, Road-. N. E. Whipple. 1,786,377; Dec. 23.
Sash mounting. J. A. Stewart. 1,786,036; Dec. 23.
Saw-setting device. H. H. Knott. 1,786,071; Dec. 23.
Scale, Weighing. T. W. B. Watling. 1,785,849; Dec. 23.
Scraper for cleaning streets and the like. C. J. Welsh. 1,786,323; Dec. 23.
Scraper, Hand. E. Werner. 1,785,754; Dec. 23.
Screen mounting. W. H. Taylor. 1,786,040; Dec. 23.
Screen structure, Roller-. H. Dixson. 1,786,054; Dec. 23.
Screw jack. G. H. James. 1,786,305; Dec. 23.
Screw-moving means. M. C. Valentine. 1,785,847; Dec 23.
Seal, Box-strap. O. L. Davis. 1,786,151; Dec. 23.
Seal for shaft bearings. A. Beasley. 1,785,806; Dec. 23.
Searchlight. E. F. Giannattasio. 1,785,950; Dec. 23.
Separator: *See*—
Dust separator. Fluid separator.
Separator and making the same, Composite. R. C. Benner and N. K. Chaney. 1,786,328; Dec. 23.
Separator for ring-spinning machines. L. Gariepy. 1,786,235; Dec. 23.
Sewing machine, Electrically-lighted. D. H. Chason. 1,785,856; Dec. 23.
Sewing-machine guide for hook tape. D. Silberman. 1,786,174; Dec. 23.
Sewing machines, Attachment for button-. J. S. Lohman. 1,786,354; Dec. 23.
Shade or article of similar nature, Lighting fixture. W. von Nessen. Des. 82,922; Dec. 23.
Sheet metal, Method of and apparatus for rolling. J. R. Speer and F. H. Moyer. 1,785,986; Dec. 23.
Sheets, Apparatus for rolling. J. Kennedy. 1,786,162; Dec. 23.
Shield, Body-protecting. C. G. Snavely. 1,786,268; Dec. 23.
Shielding arrangement. G. Crisson. 1,786,412; Dec. 23.
Shingle and making same. W. C. Davis. 1,785,830; Dec. 23.
Shirt, Stay-down. J. H. Clark. 1,786,105; Dec. 23.
Shock absorber. G. W. Elsey. 1,785,894; Dec. 23.
Shock absorber, Double-acting. G. E. A. Hallett. 1,785,899; Dec. 23.
Shock absorber for guns. S. R. Pruyn. 1,785,977; Dec. 23.
Shock absorber, Vehicle. E. H. Kreider. 1,785,814; Dec. 23.
Shoe heel cover. J. Burger. Des. 82,925; Dec. 23.
Shoe machine. E. R. Pope. 1,785,843; Dec. 23.
Shoemaking. E. R. Pope. 1,786,030; Dec. 23.
Shoe-pressing machine. A. H. Davis. 1,785,938; Dec. 23.
Shoes, Manufacturing. J. F. Crowely. 1,785,829; Dec. 23.
Shovel handle. L. E. Webster. 1,786,376; Dec. 23.
Sieves and sieves produced by such process, Production of filter. A. Pahl. 1,786,361; Dec. 23.
Sign. P. A. Farrell. 1,786,155; Dec. 23.
Sign and awning, Combination. H. R. Davis. 1,785,809; Dec. 23.
Sign, Safety stop. H. D. Griggs and J. B. Subira. 1,785,952; Dec. 23.
Sill construction. W. Marshall. 1,786,072; Dec. 23.
Slack adjuster. M. L. Hancock. 1,786,299; Dec. 23.
Slat-edging machine. J. J. Sylva. 1,786,039; Dec. 23.
Slitting cutter, Rotary spiral. F. C. Arey. 1,786,050; Dec. 23.
Smoke from coke ovens, Removal of. J. van Ackeren. 1,785,748; Dec. 23.
Smoke screens, Process and apparatus for generating. N. E. Oglesby. 1,785,744; Dec. 23.
Smoking pipe. H. J. Trenkamp. 1,786,179; Dec. 23.
Socket, Electric. F. C. De Reamer. 1,786,292; Dec. 23.
Soot blower. L. C. Whiton, jr., and J. C. Hardigg. 1,786,182; Dec. 23.
Sound recording and reproducing apparatus. C. L. Heisler. 1,786,301; Dec. 23.
Sound records, Apparatus for reproducing photographic. F. H. Owens. 1,786,027; Dec. 23.
Sound-reproducing instrument. F. M. Robb. 1,785,915; Dec. 23.
Space heater. A. W. Becker. Des. 82,870; Dec. 23.
Spectacle frame. S. E. Bouchard. Des. 82,871; Dec. 23.
Speed-changing device. C. L. Meister and C. R. Sugg. 1,785,839; Dec. 23.
Speed-changing mechanism. E. G. Kesling. 1,785,776; Dec. 23.
Speed transmission, Variable. H. A. Cole. 1,785,936; Dec. 23.
Spinning and twisting machine. J. J. Keyser. 1,786,348; Dec. 23.
Spinning and twisting machines on the breaking of the thread, Device for stopping delivery in. J. von Trimbach. 1,786,275; Dec. 23.
Splice bar or fishplate. L. S. Wilbur. 1,785,850; Dec. 23.
Splining machine. C. W. Carr and E. I. Tripp. 1,785,728; Dec. 23.
Spring: *See*—
Vehicle spring.
Sprinkler. W. Steininger. 1,786,035; Dec. 23.
Sprint-starting appliance. J. P. Nicholson and J. W. McAllister. 1,785,968; Dec. 23.
Stamping head. O. M. Pannier. 1,786,028; Dec. 23.
Stand: *See*—
Switch stand.
Starter, Engine. R. P. Lansing. 1,786,118–19; Dec. 23.
Station-type drilling and tapping machine. E. P. Bullard, jr. 1,786,148; Dec. 23.
Steam boiler, Fire-tube. G. W. Russell. 1,786,317; Dec. 23.
Steel, Rolling alloy. H. M. Givens, F. B. Foley, and J. L. Cox. 1,786,297; Dec. 23.
Steering-control system for vehicles. H. A. Knox and B. F. Baker. 1,785,738; Dec. 23.
Steering-shaft lock. F. E. Bauermeister. 1,786,186; Dec. 23.
Steering wheel, One-piece rim and spider. H. D. Geyer. 1,785,897; Dec. 23.
Stenciling on cloth, Method and apparatus for. C. F. Kennedy. 1,786,347; Dec. 23.
Stencils for multicolor work, Making cloth. R. Tull. 1,785,922; Dec. 23.

Stone cutting and polishing machine. R. B. Jones. 1,785,737; Dec. 23.
Stone-gathering machine. O. F. Reiter. 1,786,170; Dec. 23.
Stool. J. H. Coates, R. S. Howe, and W. F. Costello. 1,785,768; Dec. 23.
Stopper for dilution bottles. E. Escher, jr. 1,785,859; Dec. 23.
Storage battery, Electric. C. E. Linebarger. 1,785,963; Dec. 23.
Store front. J. R. Wolf. Des. 82,923; Dec. 23.
Submarine rescuing device. R. Edwards. 1,786,109; Dec. 23.
Sulphur containing guanidine derivatives and making same. H. Schotte. 1,785,916; Dec. 23.
Supervisory mechanism. P. H. Haselton and M. A. Jenckes. 1,786,013; Dec. 23.
Supervisory mechanism. I. W. Knight. 1,786,015; Dec. 23.
Support. B. Boykin, jr. 1,786,145; Dec. 23.
Support for electric motors. O. Cullman. 1,786,192; Dec. 23.
Support for spinning or twisting spindles, Bearing. G. H. Magrath. 1,786,252; Dec. 23.
Supporter, Hose. H. J. Stuart. 1,786,137; Dec. 23.
Surfacing apparatus. H. R. Stratford. 1,786,320; Dec. 23.
Surgical suction and pressure apparatus. C. J. Pilling. 1,785,745–6; Dec. 23.
Swing, Airplane. F. C. Hester, jr. 1,786,239; Dec. 23.
Switch: *See*—
Electric switch.
Flash-light switch.
Lock switch.
Tread switch.
Switch device. N. C. Durand. 1,786,294; Dec. 23.
Switch device, Electric-. T. H. Thomas. 1,786,176; Dec. 23.
Switch-operated frog. W. A. England. 1,785,895; Dec. 23.
Switch stand. C. H. Partington. 1,786,260; Dec. 23.
Switchboard plug. A. P. Beregkoff. 1,786,329; Dec. 23.
Switching device, Fused. H. J. L. Frank. Re17,910; Dec. 23.
Switching system, Automatic. A. E. Anderson and F. D. King. 1,786,326; Dec. 23.
Swivel butt hook. W. H. Nourse. 1,786,081; Dec. 23.
Tail and stop light, Combination. A. Fisher. Des. 82,880; Dec. 23.
Tank-closure lock. A. O. Bradshaw. 1,786,332; Dec. 23.
Tappet, Self-adjusting. R. H. Hamilton. 1,786,237; Dec. 23.
Teapot. J. W. Schachter. 1,785,787; Dec. 23.
Telephone system. G. H. Peterson and W. A. Rhodes. 1,785,818; Dec. 23.
Telephone system. R. F. Stehlik. 1,786,410; Dec. 23.
Temperature-controlling decive, Automatic. A. Penn. 1,786,083; Dec. 23.
Textile fabric or similar article of manufacture. H. M. Schweer. Des. 82,912; Dec. 23.
Textile panel for a mattress covering. H. Haug. Des. 82,884–6; Dec. 23.
Therapeutical appliance, Electrically-heated. R. C. Walker. 1,786,373; Dec. 23.
Thermal-efficiency furnace, High-. W. T. Palmer. 1,786,082; Dec. 23.
Thermostatically-actuated device. G. O. Wilms and A. J. Dawe. 1,785,852; Dec. 23.
Thermostatically-operated device. C. L. Rayfield. 1,785,787; Dec. 23.
Threads, Separating device for intercrossing. W. Ramser. 1,786,238; Dec. 23.
Tides for power purposes, Utilizing the. A. Defour. 1,785,896; Dec. 23.
Tin from ores or materials containing tin, Extraction of. E. A. Ashcroft. 1,786,386; Dec. 23.
Tinning apparatus. H. W. Bundy. 1,785,762; Dec. 23.
Tire and wheel, Pneumatic. C. K. Welch. 1,786,101; Dec. 23.
Tire chain which is permanently attached to the wheels, Nonskid. M. W. Conrow. 1,786,229; Dec. 23.
Tires, Air-service control and register for pneumatic. A. M. Baird and F. J. Partridge. 1,786,103; Dec. 23.
Tool and sample taker, Bailing. J. F. Dornacher. 1,786,152; Dec. 23.
Tool, Cutter. J. Quinn. 1,785,978; Dec. 23.
Tool, Fishing. C. P. Harris. 1,786,111; Dec. 23.
Tool for scarifying the interior of tubing. E. P. Kerruish. 1,785,905; Dec. 23.
Tool, Motor-driven. T. C. Weiss. 1,785,798; Dec. 23.
Tool, Rotary well-drilling. C. B. Kennedye. 1,786,414; Dec. 23.
Tool, Well-drilling. C. B. Kennedye. 1,786,413; Dec. 23.
Tool, Well-drilling. C. B. Kennedye. 1,786,415; Dec. 23.
Towing hitch. E. Swick. 1,786,093; Dec. 23.
Toy, Aerial. H. B. Baber and L. L. Driggs, jr. 1,785,770; Dec. 23.
Toy vehicle. J. Mohr. 1,785,783; Dec. 23.
Tractors, Driving attachment for. J. E. Horste. 1,786,067; Dec. 23.
Traffic-controlling apparatus, Railway-. V. S. Alexander. 1,785,725; Dec. 23.
Transmission dampener. C. D. Peterson. 1,786,408; Dec. 23.
Tray and safety receptacle therefor, Money. C. T. James. 1,786,160; Dec. 23.
Tray or the like, Ash. A. Klein. Des. 82,894; Dec. 23.
Tray, Record. R. R. West. 1,786,411; Dec. 23.
Tread switch. G. Thom. 1,786,098; Dec. 23.
Truck, Electric motor. R. E. Jacobs. 1,786,069; Dec. 23.
Truck, Railway. C. P. Noser. 1,785,970; Dec. 23.
Trunking system, Automatic toll-serve. V. S. Tharp and J. Wicks. 1,786,041; Dec. 23.
Tubes, End connecter for. M. A. Capeliuschnicoff. 1,785,727; Dec. 23.
Tubular articles, Method of and apparatus for operating on. H. F. Gruman. 1,786,298; Dec. 23.
Turbine. E. N. Fales. 1,786,057; Dec. 23.
Turbine, Hydraulic. L. F. Moody. 1,786,166; Dec. 23.
Turntable. T. W. Mundt. 1,786,258; Dec. 23.
Tweezers. C. W. Stickel and W. R. Tuttle. 1,785,919; Dec. 23.
Underreamer, Hydraulic expanding. W. C. George. 1,785,949; Dec. 23.
Vacuum cleaner. E. J. Muller. 1,785,873; Dec. 23.
Valve and seat combination for bidet control. C. C. Campus. 1,785,935; Dec. 23.
Valve, Brake-pipe cut-off. T. H. Thomas. 1,786,177; Dec. 23.
Valve-centering device. H. G. Miller. 1,786,023; Dec. 23.
Valve construction, Magnet-. P. R. Forman. 1,786,284; Dec. 23.
Valve, Cooling capsule filled. R. E. Bissell. 1,786,285; Dec. 23.
Valve device. L. J. Berkeley. 1,786,330; Dec. 23.
Valve mechanism. A. D. Ferguson. 1,786,199; Dec. 23.
Valve mechanism. W. K. Gosse. 1,786,397; Dec. 23.
Valve, Pressure-control. F. Baumgartner. 1,785,759; Dec. 23.
Valve structure, High-duty-. G. Ericsson. 1,786,295; Dec. 23.
Valve-testing gauge. J. Stutlka. 1,786,092; Dec. 23.
Vaporizer, Oil. R. Krollage. 1,786,117; Dec. 23.
Variable resistance. P. Lauter. 1,785,779; Dec. 23.
Vault ventilator. R. R. West. 1,786,277; Dec. 23.
Vehicle front end assembly. F. F. Valpey. 1,786,044; Dec. 23.
Vehicle light. C. B. Kurtz. 1,786,400; Dec. 23.
Vehicle spring. C. Chambers, jr. 1,785,828; Dec. 23.
Vending machine, Ball-. J. E. Craddock. 1,786,289; Dec. 23.
Vending-machine casing, Razor-blade-. A. J. Branstad. Des. 82,872; Dec. 23.
Ventilating apparatus. C. Ferguson. 1,786,200; Dec. 23.
Ventilating device. A. C. Gilbert. 1,786,203; Dec. 23.
Ventilator: *See*—
Vault ventilator.
Ventilator for automobiles. F. W. Danat. 1,785,891; Dec. 23.
Ventilator system. M. Happone. 1,786,064; Dec. 23.
Vitamin A from fish oils and the like, Extracting. K. Takahashi. 1,786,095; Dec. 23.
Voltage regulator for internal-combustion-engine-driven electric generators. H. D. Gumpper. 1,786,063; Dec. 23.
Vulcanizing mold, Tire-. H. A. Denmire. 1,786,291; Dec. 23.
Wall for platform station trucks, Attachable. W. A. McCullough. 1,786,077; Dec. 23.
Wallpaper or similar material. J. G. Prager. Des. 82,902–3; Dec. 23.
Washing machine, Paddle ore-. G. E. Krider. 1,786,399; Dec. 23.
Watchcase. O. Gruber. 1,786,061; Dec. 23.
Water cooler. R. C. Wolfe. Des. 82,924; Dec. 23.
Water heater. C. Dargent. 1,786,337; Dec. 23.
Water heater, Feed-. J. H. Sebald. 1,785,983; Dec. 23.
Water, Purifying boiler. R. O. Henszey. 1,786,113; Dec. 23.
Water strata in wells, Method and apparatus for determining the location of. G. H. Ennis. 1,786,196; Dec. 23.
Waterer, Poultry. J. B. Olson. 1,786,024; Dec. 23.
Waterer, Stock. M. G. Zoeller. 1,786,049; Dec. 23.
Welding, brazing, and hard-soldering rod, Pocketed. O. M. Krembs. 1,785,778; Dec. 23.
Wheel: *See*—
Steering wheel.
Wheel felly. F. W. Baker. 1,785,995; Dec. 23.
Wheel for railway rolling stock. W. Gribben. 1,785,812; Dec. 23.
Whistle, Locomotive. C. T. McElvaney, jr., and E. P. Golding. 1,786,122; Dec. 23.
Winding machines, Counterweighting device for. J. A. Cameron. 1,785,934; Dec. 23.
Window for automobile doors, Signal. C. H. Wallace. 1,785,796; Dec. 23.
Window regulator. H. A. Myers. 1,785,784; Dec. 23.
Wire-testing machine. C. C. Sunderland. 1,786,138; Dec. 23.
Wooden surfaces, Scraping off. S. Thielmann. 1,786,096; Dec. 23.
Woodworking machine, Multiple-saw. F. W. Patton. 1,786,168; Dec. 23.
Wrench. J. C. Baker. 1,785,925; Dec. 23.
Yarn cleaner and slub detector. W. Marcroft and G. N. Taylor. 1,785,817; Dec. 23.
Yarn-tensioning device. W. C. Stewart. 1,785,987; Dec. 23.

CLASSIFICATION OF PATENTS

ISSUED DECEMBER 23, 1930

NOTE.—First number=class, second number=subclass, third number=patent number

1— 3.1: 1,786,088
1,786,087
18: 1,785,844
19: 1,785,843
32: 1,785,928
39: 1,785,832
2— 2: 1,786,268
115: 1,786,105
159: 1,786,227
184: 1,786,327
278: 1,785,962
4— 7: 1,785,935
68: 1,785,872
252: 1,785,877
5— 147: 1,785,865
344: 1,785,953
8— 18: 1,786,031
9— 18: 1,785,971
10— 162: 1,785,862
11— 1: 1,786,211
12— 36: 1,785,938
142: 1,785,829
1,786,030
15— 7: 1,786,384
139: 1,785,732
203: 1,786,224
229: 1,786,037
246: 1,785,873
16— 171: 1,786,265
179: 1,786,036
197: 1,786,079
17— 26: 1,786,346
18— 38: 1,786,291
49: 1,786,075
52: 1,786,149
53: 1,786,290
19— 66: 1,785,823
130: 1,786,180
20— 1.01: 1,786,363
56.4: 1,786,197
71: R. 17,911
22— 45: 1,786,171
67: 1,785,757
177: 1,785,941
23— 109: 1,786,097
143: 1,786,016
24— 19: 1,786,107
23: 1,786,151
66: 1,786,250
116: 1,786,187
123: 1,786,081
134: 1,786,359
201: 1,786,115
205: 1,785,740
1,785,920
219: 1,785,825
224: 1,785,735
245: 1,786,137
25— 12: 1,785,827
30: 1,786,385
56: 1,786,167
134: 1,786,364
26— 63: 1,786,188
28— 1: 1,785,937
43: 1,786,238
64: 1,785,817
29— 17: 1,786,162
18: 1,785,966
38: 1,786,148
79: 1,785,836
84: 1,786,099
86.2: 1,785,946
30— 12: 1,785,889
1,785,917
32— 10: 1,746,127
33— 18: 1,785,883
46.5: 1,786,059
163: 1,786,325
180: 1,786,092
205: 1,786,184
211: 1,786,309
34— 5: 1,786,191
26: 1,786,223
1,786,316
36— 15: 1,786,374
76: 1,785,808
37— 9: 1,786,335
37— 53: 1,786,323
39— 62: 1,785,747
40— 7: 1,786,253
20: 1,785,948
23: 1,785,780
28: 1,785,848
63: 1,786,123
65: 1,785,866
86: 1,786,133
119: 1,786,230
125: 1,785,952
130: 1,786,044
132: 1,786,033
133: 1,786,155
145.1: 1,786,038
42— 16: 1,786,213
40: 1,785,764
1,785,765
41: 1,785,794
55: 1,785,770
74: 1,785,977
43— 3: 1,785,788
8: 1,786,342
148: 1,785,932
1,785,933
1,785,943
1,785,944
1,785,945
44— 29: 1,785,739
45— 2: 1,786,112
77: 1,786,045
138: 1,786,073
46— 40: 1,785,781
1,785,800
47— 9: 1,786,021
41: 1,786,062
1,786,141
48— 63: 1,785,820
102: 1,786,117
51— 10.5: 1,786,023
112: 1,785,737
105: 1,786,320
231: 1,786,139
52— 13: 1,786,046
53— 3: 1,785,878
4: 1,786,005
55— 17: 1,786,170
30: 1,785,901
32: 1,786,194
58: 1,786,131
58— 105: 1,786,061
60— 19: 1,786,304
54.6: 1,786,231
61— 20: 1,785,896
69: 1,786,109
62— 1: 1,786,159
91.5: 1,786,161
115: 1,786,222
1,786,110
116: 1,786,370
117: 1,785,860
120: 1,786,129
141: 1,785,857
66— 102: 1,786,255
67— 7.1: 1,786,267
31: 1,785,950
116: 1,786,395
68— 10: 1,786,008
70— 14: 1,785,934
16: 1,786,221
90: 1,786,332
122: 1,786,201
127: 1,786,186
72— 18: 1,785,855
98: 1,785,793
106: 1,786,284
108: 1,785,790
1,785,791
130: 1,786,362
73— 4: 1,786,219
37: 1,785,842
82: 1,786,339
74— 1: 1,785,736
6: 1,786,408
7: 1,785,731
1,786,067
1,785,798
74— 14: 1,786,007
1,785,733
33: 1,785,897
34: 1,785,936
1,785,839
1,786,158
39: 1,785,776
48: 1,786,006
54: 1,786,344
58: 1,786,319
71: 1,786,143
108: 1,785,903
109: 1,786,012
75— 17: 1,786,386
45: 1,786,393
76— 58: 1,786,071
80— 1: 1,785,905
55: 1,786,296
60: 1,786,297
81— 19: 1,785,884
71: 1,785,847
97: 1,785,925
82— 1: 1,786,022
83— 11: 1,786,262
87— 5: 1,786,249
12: 1,786,248
17: 1,786,209
19: 1,786,263
88— 16.2: 1,786,274
1,786,368
24: 1,786,026
1,786,220
41: 1,786,204
47: 1,785,929
89— 2: 1,786,207
90— 12.5: 1,785,978
91— 4: 1,785,835
12.2: 1,785,762
45: 1,785,864
1,786,394
55: 1,786,416
92— 6: 1,785,840
21: 1,786,270
66: 1,786,215
94— 14: 1,785,976
95— 1: 1,785,997
73: 1,786,070
97— 7: 1,786,240
10: 1,786,226
23: 1,786,241
134: 1,785,964
198: 1,786,124
216: 1,786,388
98— 94: 1,786,203
109: 1,786,331
114: 1,785,993
99— 11: 1,786,256
1,786,372
101— 3: 1,785,851
28: 1,786,028
93: 1,786,251
114: 1,786,347
122: 1,785,833
129: 1,785,922
157: 1,785,991
188: 1,786,336
250: 1,786,116
383: 1,786,001
1,786,002
103— 5: 1,786,055
7: 1,786,056
188: 1,785,834
104— 35: 1,786,258
85: 1,785,989
197: 1,785,811
105— 57: 1,786,069
109: 1,786,401
205: 1,785,871
223: 1,785,970
364: 1,785,982
406: 1,786,380
1,786,382
106— 23: 1,786,281
31: 1,785,910
36.2: 1,785,777
107— 1: 1,786,108
4: 1,785,904
107— 19: 1,785,797
54: 1,786,387
55: 1,785,763
60: 1,786,142
109— 1: 1,786,160
1,786,277
111— 18: 1,786,100
34: 1,785,926
112— 107: 1,786,354
136: 1,786,174
152: 1,786,298
114— 66: 1,786,091
116— 33: 1,785,875
81: 1,786,273
129: 1,786,058
137: 1,786,122
138: 1,786,214
117— 41: 1,786,102
118— 7: 1,786,275
8: 1,786,252
1,786,348
11: 1,786,235
119— 17: 1,785,858
35: 1,785,942
48: 1,786,126
53: 1,785,782
55: 1,785,785
73: 1,786,024
1,786,049
77: 1,785,921
128: 1,786,375
120— 14: 1,785,881
49: 1,786,355
121— 14: 1,785,998
122— 1: 1,786,113
33: 1,786,082
76: 1,785,756
1,786,317
235: 1,785,927
302: 1,785,758
360: 1,785,727
392: 1,785,821
505: 1,786,144
123— 2: 1,786,003
52: 1,785,869
53: 1,786,287
67: 1,786,106
74: 1,785,909
90: 1,786,237
117: 1,785,902
171: 1,785,861
177: 1,786,285
188: 1,786,397
196: 1,786,269
124— 1: 1,785,876
126— 41: 1,786,300
67: 1,786,403
96: 1,786,130
180: 1,786,358
128— 24: 1,786,047
29: 1,786,350
63: 1,786,165
214: 1,786,090
268: 1,785,831
344: 1,786,373
354: 1,785,919
129— 16: 1,785,815
26: 1,786,411
131— 5: 1,785,822
12: 1,786,179
132— 36: 1,786,313
50: 1,785,885
136— 27: 1,785,939
108: 1,785,981
115: 1,786,406
145: 1,786,328
182: 1,785,963
137— 21: 1,785,766
91: 1,785,985
139: 1,785,807
1,786,234
153: 1,786,199
1,786,402
139— 307: 1,786,190
141— 11: 1,785,771
143— 47: 1,786,168
49: 1,786,039
143— 118: 1,786,261
144— 2: 1,785,728
115: 1,786,096
259: 1,786,245
309: 1,785,830
145— 47: 1,785,754
146— 81: 1,785,795
122: 1,785,743
202: 1,786,405
148— 12: 1,785,786
32: 1,785,774
149— 4: 1,785,966
151— 30: 1,785,924
152— 11.5: 1,786,103
14: 1,786,229
1,786,318
29: 1,786,101
153— 32: 1,785,923
154— 2.6: 1,786,340
45.5: 1,786,390
155— 60: 1,786,239
194: 1,785,768
156— 14: 1,786,040
20: 1,786,052
22: 1,785,838
27: 1,786,064
33: 1,786,365
39: 1,786,054
42: 1,785,809
158— 28: 1,786,068
77: 1,785,802
1,785,803
99: 1,785,900
117.1: 1,786,396
117.5: 1,785,804
164— 6.6: 1,786,050
99: 1,786,153
166— 14: 1,786,407
19: 1,785,990
1,786,152
167— 16: 1,786,125
81: 1,786,095
170— 162: 1,786,057
1,786,217
171— 97: 1,786,310
118: 1,786,303
123: 1,785,965
264: 1,786,157
1,786,157
312: 1,786,311
314: 1,786,086
1,786,280
324: 1,785,996
173— 28: 1,785,816
259: 1,786,206
1,786,309
264: 1,786,276
330: 1,786,292
332: 1,785,734
356: 1,786,409
361: 1,786,329
174— 177: 1,786,205
175— 41.5: 1,786,134
264: 1,785,729
294: 1,786,324
1,786,326
312: 1,786,010
335: 1,785,852
359: 1,785,819
177— 311: 1,786,034
380: 1,785,940
178— 44: 1,786,412
179— 27: 1,785,818
1,786,041
1,786,410
78: 1,785,972
100.2: 1,785,915
100.3: 1,786,025
1,786,027
1,786,301
100.41: 1,786,042
180— 17: 1,785,738
69: 1,786,064
181— 0.5: 1,786,264
31: 1,786,279
183— 9: 1,786,208
24: 1,786,200
183— 77: 1,785,918
111: 1,785,931
184— 3: 1,786,334
185— 40: 1,786,288
188— 62: 1,786,286
78: 1,785,854
1,785,969
88: 1,785,809
89: 1,785,814
203: 1,786,299
218: 1,786,132
189— 16: 1,786,145
20: 1,786,089
34: 1,785,826
92: 1,786,228
192.02: 1,786,118
1,786,119
33: 1,786,351
60: 1,786,356
193— 8: 1,785,867
194— 7: 1,786,289
16: 1,785,994
61: 1,786,014
196— 33: 1,786,246
58: 1,786,053
119: 1,786,315
126: 1,786,357
197— 20: 1,785,999
198— 104: 1,786,020
135: 1,786,085
200— 8: 1,786,294
24: 1,786,391
44: 1,785,906
51: 1,786,176
60: 1,785,868
86: 1,786,098
87: 1,785,887
88: 1,786,306
90: 1,786,018
114: 1,786,333
119: 1,786,352
133: R. 17,910
140: 1,785,773
168: 1,785,911
1,785,912
201— 56: 1,785,779
202— 36: 1,785,751
253: 1,785,760
263: 1,785,750
1,785,748
204— 1: 1,786,398
19: 1,785,888
206— 1: 1,785,975
16.5: 1,786,271
60: 1,785,863
209— 104: 1,785,841
166: 1,785,992
210— 66: 1,786,349
126: 1,786,312
211— 57: 1,785,988
120: 1,785,753
212— 141: 1,786,060
214— 1: 1,786,218
3: 1,786,360
16.1: 1,786,282
18: 1,785,749
36: 1,785,789
215— 47: 1,785,859
51: 1,785,890
1,786,140
217— 3: 1,786,078
219— 8: 1,785,778
19: 1,786,120
1,786,345
39: 1,785,752
221— 100: 1,786,302
222— 7: 1,786,080
223— 61: 1,786,341
226— 5: 1,785,824
228— 49: 1,786,379
1,786,381
229— 14: 1,786,189
29: 1,785,808
230— 3: 1,785,956
4: 1,785,979
1,785,960
1,786,114

230—	4: 1,786,128	244—	2: 1,785,892	251—	145: 1,785,726	260—	70: 1,785,845	266—	1.5: 1,786,202	294—	94: 1,786,111
	1,786,278		1,786,136		1,786,283		78: 1,785,799		1,786,322	295—	11: 1,785,812
	1,786,367		12: 1,786,181	252—	1: 1,785,744		95: 1,785,846	267—	8: 1,785,893	296—	1: 1,786,077
	56: 1,786,242		1,786,236		2: 1,786,361		96: 1,785,769		1,785,894		28: 1,786,072
	80: 1,786,032		14: 1,786,307		8: 1,786,383		98: 1,785,951		48: 1,785,828		44: 1,785,796
	96: 1,785,907		18: 1,785,775		9: 1,785,742		103: 1,786,404		126: 1,785,784		1,785,891
	206: 1,785,853		19: 1,786,017	253—	154: 1,786,166		125: 1,785,730	271—	75: 1,786,343		97: 1,786,011
	1,786,321		21: 1,786,169	254—	126: 1,786,305		1,785,916	272—	4: 1,785,837		98: 1,786,048
	209: 1,786,051		25: 1,786,338	255—	4: 1,786,173		129: 1,785,955		59: 1,785,968		137: 1,785,908
234—	1.5: 1,786,196		29: 1,785,879		45: 1,786,135	261—	76: 1,785,792		37: 1,786,232	297—	16: 1,785,787
	29.5: 1,785,874		1,785,913		1,786,175		89: 1,786,150	279—	103: 1,786,029	299—	69: 1,786,085
	37: 1,786,013		1,786,193		61: 1,786,413		103: 1,786,185		121: 1,786,147		105: 1,786,146
	1,786,015		1,786,266		1,786,414		113: 1,786,076	280—	16: 1,785,783		140: 1,785,805
235—	81: 1,786,164	246—	41: 1,785,725		1,786,415		114: 1,785,983		33.16: 1,786,314	301—	39: 1,786,389
236—	44: 1,785,741		385: 1,785,895		74: 1,785,949	262—	28: 1,785,958		33.44: 1,786,093		96: 1,785,995
	68: 1,785,761		404: 1,786,260	257—	1: 1,786,182		1,785,959		169: 1,785,755	303—	20: 1,786,178
	91: 1,786,083	247—	22: 1,786,353		36: 1,786,000		1,785,960	284—	12: 1,786,177		31: 1,786,195
238—	205: 1,785,810	248—	15: 1,786,192		223: 1,786,163		1,785,961	285—	24: 1,786,066		54: 1,785,759
	243: 1,785,850		32: 1,786,004		236: 1,786,233		1,785,974	286—	11: 1,785,806		86: 1,786,198
240—	2: 1,785,856		37: 1,786,254		248: 1,786,337		1,786,225	287—	118: 1,785,570		1,786,212
	1,786,183		44: 1,786,308		263: 1,786,065		1,786,243	290—	40: 1,786,063	306—	2: 1,786,210
	52: 1,785,767		65: 1,785,745	259—	97: 1,786,009		1,786,259	291—	38: 1,786,377		44: 1,786,043
	61: 1,786,400		1,785,746		103: 1,786,399		29: 1,786,244	292—	106: 1,785,882	308—	3: 1,786,121
	78: 1,786,371	249—	2: 1,786,216	260—	8: 1,785,930		30: 1,785,957		227: 1,786,074		72: 1,785,886
241—	8: 1,785,947	250—	19: 1,786,257		12: 1,786,272		1,785,978		241: 1,786,247		86: 1,786,104
	1,785,967		20: R. 17,909		13: 1,786,172	263—	15: 1,786,293		265: 1,786,019		226: 1,786,378
242—	45: 1,785,967		27.5: 1,786,154		1,786,094		40: R. 17,908		268: 1,785,772	312—	36: 1,785,954
	66: 1,785,934	251—	62: 1,786,295		37: 1,785,801	265—	13: 1,786,138		280: 1,785,914		42: 1,786,392
	77: 1,786,366		86: 1,786,330		53: 1,785,813		62: 1,785,849	294—	57: 1,786,376		165: 1,785,880

U. S. GOVERNMENT PRINTING OFFICE: 1930

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS

Abramson, Elmer, assignor to Central States Paper and Bag Co., St. Louis, Mo. Stack covers. 278,768; Dec. 30; Serial No. 303,145; published Oct. 14, 1930. Class 50.

Air-Way Electric Appliance Corporation, Toledo, Ohio Steam and water piping, couplings, and nipples. 278,732; Dec. 30; Serial No. 305,470; published Oct. 21, 1930. Class 13.

Aktiebolaget Elektrolux, Stockholm, Sweden. Filters, parts therefor, and water-filtering masses. 278,853; Dec. 30; Serial No. 285,434; published Oct. 14, 1930. Class 31.

Al-Lon Manufacturing Company, Inc., Baltimore, Md. Wardrobe bags. 278,809; Dec. 30; Serial No. 305,472; published Oct. 21, 1930. Class 2.

Aladdin Coal Company. (See Miller, William F.)

Allcock Manufacturing Co., Ossining, N. Y. Porous plasters. 278,850; Dec. 30; Serial No. 286,011; published Oct. 7, 1930. Class 6.

Allcock Manufacturing Co., Ossining, N. Y. Pills having laxative effect. 278,851; Dec. 30. Serial No. 286,010; published Sept. 30, 1930. Class 6.

Allied Metal Products Corporation, Detroit, Mich. Moldings. 278,890; Dec. 30. Class 12.

Allsteel Products Manufacturing Company, Wichita, Kans. Winches, variable-speed drives, pipe benders, etc. 278,754; Dec. 30. Serial No. 303,242; published Oct. 14, 1930. Class 23.

Alpha Chemical Products Co., The, Cincinnati, Ohio. Medicine. 278,873; Dec. 30; Serial No. 299,480; published Sept. 30, 1930. Class 6.

Alpine Ribbon & Carbon Company. (See Losey, Irving A.)

American Chicle Company, Long Island City, N. Y. Chewing gum. 278,810; Dec. 30; Serial No. 304,708; published Oct. 14, 1930. Class 46.

American Dental Trade Association, Washington, D. C. Trade publication. 278,844; Dec. 30; Serial No. 304,748; published Oct. 21, 1930. Class 38.

American Tobacco Company, The, New York, N. Y. Chewing tobacco. 278,807; Dec. 30. Serial No. 301,548; published Oct. 14, 1930. Class 17.

American Writing Paper Company, Inc., Holyoke, Mass. Paper. 278,882; Dec. 30. Class 37.

Anderson, Alexander, Fullerton, Calif. Apparatus and instruments for underground surveys of borings and parts of such. 278,815; Dec. 30; Serial No. 304,853; published Oct. 14, 1930. Class 26.

Anker-Werke A.-G., Bielefeld, Germany. Bicycles. 278,733; Dec. 30; Serial No. 305,129; published Oct. 14, 1930. Class 19.

Arizona Minerals Corporation, Yuma, Ariz. Water-softening material. 278,708; Dec. 30; Serial No. 301,778; published Sept. 30, 1930. Class 6.

Atkins & Durbrow, Inc., New York, N. Y. Cow manure and peat moss dehydrated and peat-moss soil improver. 278,756; Dec. 30; Serial No. 303,987; published Oct. 14, 1930. Class 10.

Benedict, T. N., Mfg. Co., East Syracuse, N. Y. Cups made of synthetic plastic material. 278,743; Dec. 30; Serial No. 304,092; Oct. 21, 1930. Class 2.

Bergin, Rose, doing business as Belle T. Crowe Laboratories, Kansas City, Mo. Preparation for treating leucorrhea, for eliminating offensive odors, and for cleaning the human organs. 278,707; Dec. 30; Serial No. 302,176; published Oct. 7, 1930. Class 6.

Berliner, Edwin E., & Co., New York, N. Y. Cotton piece goods. 278,881; Dec. 30. Class 42.

Bessemer Bottling Company, Bessemer, Ala. Maltless beverages. 278,697; Dec. 30; Serial No. 304,309; published Oct. 14, 1930. Class 45.

Bick and Company, Inc., Reading, Pa. Sulphonated caster oil. 278,774; Dec. 30; Serial No. 304,484; published Oct. 7, 1930. Class 6.

Bloomingdale Bros., Inc., New York, N. Y. Carpet sweepers. 278,766; Dec. 30; Serial No. 303,595; published Oct. 14, 1930. Class 29.

Bodle, R. D., Co., doing business as Valley Fruit Canning Co., Seattle, Wash. Fresh, canned, and frozen fruits. 278,730; Dec. 30; Serial No. 290,113; published Oct. 21,1930. Class 46.

Böhme, H. Th., A. G., Chemnitz, Germany. Chemical dye aids. 278,701; Dec. 30. Serial No. 303,624; published Sept. 30, 1930. Class 6.

Braden, Bertram E., doing business as Oh-Mi Laboratories, Washington, D. C. Medicinal preparations. 278,700; Dec. 30; Serial No. 303,944; published Sept. 30, 1930. Class 6.

Braunstein, Morris, New York, N. Y. Vulcanized-fibre case for shipping laundry. 278,738; Dec. 30; Serial No. 304,990; published Oct. 21, 1930. Class 2.

Brown, J. Goddard, Boston, Mass. Trade-paper publication. 278,794; Dec. 30; Serial No. 304,087; published Oct. 21, 1930. Class 38.

Bunnell, S. U., doing business as Bunnel Photo Shop, San Diego, Calif. Photographic prints. 278,793; Dec. 30; Serial No. 304,184; published Oct. 21, 1930. Class 38.

Burtis Company, Inc., The, Newark, N. J. Tobacco pouches and containers. 278,849; Dec. 30; Serial No. 286,866; published Oct. 21, 1930. Class 8.

Bury Compressor Co., Erie, Pa. Air compressors. 278,856; Dec. 30; Serial No. 283,173; published Oct. 14, 1930. Class 23.

California Lima Bean Growers Association, Oxnard, Calif. Canned lima beans. 278,789; Dec. 30; Serial No. 301,827; published Oct. 14, 1930. Class 46.

Camp Fire Girls, Inc., New York, N. Y. Women's and girls' caps. 278,787; Dec. 30; Serial No. 303,092; published Oct. 14, 1930. Class 39.

Canfield, A. J., Co., Chicago, Ill. Malt cereal beverages. 278,877; Dec. 30; Serial No. 298,931; published Oct. 21, 1930. Class 48.

Central Iron & Coal Company, New York, N. Y. Fertilizers. 278,722; Dec. 30; Serial No. 294,500; published Oct. 21, 1930. Class 10.

Central States Paper and Bag Co. (See Abramson, Elmer, assignor.)

Chicago Candy Novelties Corp., Chicago, Ill. Confectionery. 278,828; Dec. 30; Serial No. 304,602; published Oct. 14, 1930. Class 46.

Coari Hats, Inc., New York, N. Y. Hats. 278,769; Dec. 30; Serial No. 301,582; published Oct. 14, 1930. Class 39.

Collins Company, The, Collinsville, Conn. Axes, hatchets, machetes, etc. 278,816; Dec. 30; Serial No. 304,752; published Oct. 14, 1930. Class 23.

Collins, Douglas, doing business as Collins Durax Co., Salisbury, N. C. Dimension stone. 278,879; Dec. 30.

Conover, Harvey, & Company, Inc., New York, N. Y. Periodical publication. 278,837; Dec. 30; Serial No. 305,746; published Oct. 21, 1930. Class 38.

Consolidated Aircraft Corporation, Buffalo, N. Y. Flying machines. 278,734; Dec. 30; Serial No. 305,099; published Oct. 14, 1930. Class 19.

Consolidated Drug Corp. (See Spencer, James W.)

Consolidated Factories, Ltd., Santa Ana, Calif. Doorplates. 278,718; Dec. 30; Serial No. 295,836; published Oct. 14, 1930. Class 13.

Crane Co., Chicago, Ill. Plumbing fixtures. 278,888; Dec. 30. Class 13.

Crowe, Belle T., Laboratories. (See Bergin, Rose.)

Crucible Electrical Steel Company, The, Pittsburgh, Pa. Tool steels. 278,846; Dec. 30; Serial No. 289,309; published Oct. 14, 1930. Class 14.

Curo Process Company, Bartlesville, Okla. Product for demulsifying emulsions of mineral oils. 278,703; Dec. 30; Serial No. 302,854; published Sept. 30, 1930. Class 6.

Davey Company, The, Jersey City, N. J. Tar and binders' boards. 278,803–6; Dec. 30; Serial Nos. 301,589–92; published Oct. 14, 1930. Class 37.

Davison Chemical Company, The, Baltimore, Md. Mixed fertilizers, castor pomace, calcium nitrate, etc. 278,757; Dec. 30; Serial No. 303,951; published Oct. 14, 1930. Class 10.

Dill Manufacturing Company, The, Cleveland, Ohio. Pneumatic valve stems, dust and valve caps, rim nuts, etc. 278,737; Dec. 30; Serial No. 304,541; published Oct. 14, 1930. Class 13.

Dix, Henry A., & Sons Corporation, New York, N. Y. Uniforms, caps, and aprons for misses. 278,786; Dec. 30; Serial No. 303,597; published Oct. 14, 1930. Class 39.

Dodge, Horace E., Boat & Plane Corporation, New York, N. Y. Motor boats, speed boats, cruisers, etc. 278,745; Dec. 30; Serial No. 303,023; published Oct. 14, 1930. Class 19.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Chemicals used as antioxidants for rubber. 278,698; Dec. 30; Serial No. 303,954; published Oct. 7, 1930. Class 6.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Chemicals used in the manufacture of rubber. 278,699; Dec. 30; Serial No. 303,953; published Oct. 7, 1930. Class 6.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Chemicals used as antioxidants of rubber. 278,781; Dec. 30; Serial No. 303,957; published Oct. 7, 1930. Class 6.

Du Pont, E. I. de Nemours and Company, Wilmington, Del. Chemicals used for preventive of the sun checking of rubber. 278,782; Dec. 30; Serial No. 303,956; published Oct. 7, 1930. Class 6.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Chemicals used as antioxidants for rubber. 278,783; Dec. 30; Serial No. 303,955; published Oct. 7, 1930. Class 6.

Eclipse Fountain Pen & Pencil Co. Inc., New York, N. Y. Fountain pens and pencils. 278,841; Dec. 30; Serial No. 305,102; published Oct. 14, 1930. Class 37.

Eureka Steel Range Company, O'Fallon, Ill. Stoves and ranges. 278,747–8. Dec. 30; Serial Nos. 302,377–8; published Oct. 21, 1930. Class 34.

Faber, A. W., Inc., Newark, N. J. Pencils and crayons. 278,878; Dec. 30; Serial No. 297,898; published Oct. 21, 1930. Class 37.

Fansteel Products Company, Inc., North Chicago, Ill. Metals and alloys. 278,762; Dec. 30; Serial No. 303,764; published Oct. 14, 1930. Class 14.

Fenwick Reddaway Mfg. Co., Newark, N. J. Fire hose. 278,867; Dec. 30; Serial No. 300,343; published Oct. 14, 1930. Class 35.
Ferguson Beauty Shoppe, Pontiac, Mich. Talcum and face powder, creams, toilet water, etc. 278,719; Dec. 30; Serial No. 295,475; published Oct. 7, 1930. Class 6.
Fleer, Frank H., Corporation, Philadelphia, Pa. Chewing gum. 278,825; Dec. 30; Serial No. 304,763; published Oct. 21, 1930. Class 46.
Florasynth Laboratories Inc., New York, N. Y. Maltless concentrates of all flavors. 278,693; Dec. 30; Serial No. 304,805; published Oct. 14, 1930. Class 45.
Fox West Coast Theatres, Los Angeles, Calif. House organ. 278,843; Dec. 30; Serial No. 304,764; published Oct. 14, 1930. Class 38.
Freel, Albert E., doing business as Freel Timometer Company, Owensboro, Ky. Time-indicating device in the nature of a clock. 278,761; Dec. 30; Serial No. 303,766; published Oct. 14, 1930. Class 27.
Frigidaire Corporation, Dayton, Ohio. Periodicals. 278,838; Dec. 30; Serial No. 305,524; published Oct. 21, 1930. Class 38.
Fugazzi-Pinellas Grove Co., Clearwater, Fla., and Cincinnati, Ohio. Fresh citrus fruits. 278,709; Dec. 30; Serial No. 305,565; published Oct. 21, 1930. Class 46.
Gastrical Co. Inc. (See Hirsch, Sol, assignor.)
Gestetner, D., Limited, London, England. Stencil inks. 278,894; Dec. 30. Class 11.
Gilbert, William L., Clock Company, Winsted, Conn. Clocks. 278,731; Dec. 30; Serial No. 289,892; published Oct. 14, 1930. Class 27.
Glidden Company, The, Cleveland, Ohio. Pure vegetable shortening. 278,831; Dec. 30; Serial No. 304,282; published Oct. 14, 1930. Class 46.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Tires, tire shoes and inner tubes therefor, outside tire protectors, etc. 278,729; Dec. 20; Serial No. 291,215; published Oct. 14, 1930. Class 35.
Greenlee Bros. & Co., Rockford, Ill. Wrecking tools, clay spades, asphalt cutters, etc. 278,817; Dec. 30; Serial No. 304,721; published Oct. 14, 1930. Class 23.
Griffith Laboratories, Inc., The, Chicago, Ill. Dusting flour. 278,880; Dec. 30. Class 46.
Gruener, Albert, Cicero, Ill. Box lunches. 278,899; Dec. 30. Class 46.
Haig, John, & Co., Limited, Markinch, Scotland. Rum, gin, whiskey, etc. 278,847; Dec. 30; Serial No. 288,911; published Oct. 21, 1930. Class 49.
Hall, Geo. A., Co., Houlton, Me. Potatoes. 278,714; Dec. 30; Serial No. 296,463; published Oct. 21, 1930. Class 46.
Hall, William, & Company, Limited, Redditch, England. Needles, pins, bodkins, and crochet books. 34,926; renewed July 24, 1930.
Hance Brothers & White, Inc., Philadelphia, Pa. Antiseptic, healing, invigorating liquid. 278,706; Dec. 30; Serial No. 302,822; published Sept. 30, 1930. Class 6.
Hannah, John F., Tampa, Fla. Hand-operated weed and grass cutters. 278,869; Dec. 30; Serial No. 300,191; published Oct. 14, 1930. Class 23.
Harman & Hulsey, Inc., Tampa, Fla. Canned grapefruit and citrus juices. 278,823; Dec. 30; Serial No. 305,078; published Oct. 21, 1930. Class 46.
Harpham, Julius V., Lincoln, Nebr. Dusting mittens. 278,808; Dec. 30; Serial No. 301,170; published Oct. 14, 1930. Class 29.
Harriman, William, assignor to Twin-Rite Stationery Co., Oklahoma City, Okla., a trust estate. Combination note paper and envelopes. 278,857; Dec. 30; Serial No. 283,040; published Oct. 21, 1930. Class 37.
Hibler, Albert A., doing business as New-Best Company, West End, Pittsburgh, Pa. Hair restorer. 278,702; Dec. 30; Serial No. 303,288; published Oct. 7, 1930. Class 6.
Hillers, Gebrüder, Grafrath, Solingen, Germany. Cocoa powder, chocolates, pralines, etc. 278,883; Dec. 30. Class 46.
Hirsch, Sol, assignor to Gastrical Co. Inc., New York, N. Y. Pharmaceutical preparation. 278,855; Dec. 30; Serial No. 283,978; published Sept. 30, 1930. Class 6.
Hirschy Company, The, Duluth, Minn. Electric washing machines. 278,715; Dec. 30; Serial No. 296,058; published Oct. 14, 1930. Class 24.
Hoberg Paper & Fibre Company, Green Bay, Wis. Toilet paper, paper towels, and napkins. 278,791; Dec. 30; Serial No. 304,660; published Oct. 21, 1930. Class 37.
Hoffmann-Hayman Coffee Co., San Antonio, Tex. Coffee. 278,832; Dec. 30; Serial No. 304,143; published Oct. 21. 1930. Class 46.
Holliday, C. Crawford, Boston, Mass. Dresses, suits, skirts, slips, etc. 278,777–8; Dec. 30; Serial Nos. 304,326–7; published Oct. 14, 1930. Class 39.
Holmes, Ephraim McC., Detroit, Mich. Ice. 278,891; Dec. 30. Class 1.
Hudson Wire and Iron Company, The, Tulsa, Okla. Wire fencing. 278,740; Dec. 30; Serial No. 304,463; published Oct. 14, 1930. Class 13.
Independent Druggists' Alliance Distributing Co., Chicago, Ill. Hand scrubbing brushes and toothbrushes. 278,758; Dec. 30; Serial No. 303,898; published Oct. 14, 1930. Class 29.
Independent Druggists' Alliance Distributing Co., Chicago, Ill. Cigars, cigarettes, and smoking tobacco. 278,759; Dec. 30; Serial No. 303,896; published Oct. 14, 1930. Class 17.
Independent Druggists' Alliance Distributing Co., Chicago, Ill. Writing ink. 278,760; Dec. 30; Serial No. 303,895; published Oct. 14, 1930. Class 11.
Independent Druggists' Alliance Distributing Co., Chicago, Ill. Combs. 278,784; Dec. 30; Serial No. 303,902; published Oct. 14, 1930. Class 40.
Indianapolis Glove Company, Indianapolis, Ind. Canvas work gloves. 278,720; Dec. 30; Serial No. 294,727; published Oct. 14, 1930. Class 39.
Jacobs Candy Co. Ltd., doing business as Sue Sonder Candy Company, New Orleans, La. Candy. 278,900; Dec. 30. Class 46.
Jawitz, Joseph. Canned fish. 278,833; Dec. 30; Serial No. 304,083; published Oct. 14, 1930. Class 46.
Jean Stuart Cosmetics, Inc., New Haven, Conn. Astringents, astringent cerates, bleach and beauty creams, etc. 278,771–2; Dec. 30; Serial Nos. 304,617–18; published Oct. 7, 1930. Class 6.
Jewell Steel & Malleable Co., Buffalo, N. Y. Steel and malleable-iron castings. 278,713; Dec. 30; Serial No. 296,649; published Oct. 14, 1930. Class 14.
Jonkopings och Vulcans Tandsticksfabriksaktiebolag. (See Kreuger, Fredrik E., assignor.)
Kelly Graphite Mills, Inc., Stocktown, Pa. Facings for use in casting metals. 278,901–3; Dec. 30. Class 1.
Kennedy, James P., Brooklyn, N. Y. Radio program memo calendars. 278,799; Dec. 30; Serial No. 303,188; published Oct. 21, 1930. Class 37.
Kingan & Co. Incorporated, Indianapolis, Ind. Hams, bacon, sliced bacon, etc. 278,755; Dec. 30. Class 46.
Knopf, Alfred A., Inc., New York, N. Y. Completely-printed books. 278,798; Dec. 30; Serial No. 303,719; published Oct. 21, 1930. Class 38.
Korn-Pop Corn Remedy Company. (See Waldman, Jack.)
Kreuger, Fredrik E., London, England, assignor, by mesne assignments, to Jonkopings och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. 78,886–7; renewed July 19, 1930.
Kreuger, Fredrik E., London, England, assignor, by mesne assignments, to Jonkopings och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. 79,428; renewed Sept. 6, 1930.
Kreuger, Fredrik E., London, England, assignor, by mesne assignments, to Jonkopings och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. 79,498–500; renewed Sept. 13, 1930.
Kreuger, Fredrik E., London, England, assignor, by mesne assignments, to Jonkopings och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. 79,588; renewed Sept. 20, 1930.
Kreuger, Fredrik E., London, England, assignor, by mesne assignments, to Jonkopings och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. 79,588; renewed Sept. 20, 1930.
Kreuger, Fredrik E., London, England, assignor, by mesne assignments, to Jonkopings och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. 79,985–6; renewed Oct. 25, 1930.
Kreuger, Fredrik E., London, England, assignor, by mesne assignments, to Jonkopings och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. 80,130; renewed Nov. 8, 1930.
Kreuger, Fredrik E., London, England, assignor, by mesne assignments, to Jonkopings och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. 80,364; renewed Dec. 13, 1930.
Lavino, E. J., and Company, Philadelphia, Pa. Plastic refractory material. 278,819; Dec. 30; Serial No. 304,563; published Oct. 7, 1930. Class 12.
Lempco Products, Inc., Bedford, Ohio; New York, N. Y.; Chicago, Ill.; San Francisco, Calif.; Atlanta, Ga.; Dallas, Tex. Drive and pinion shafts, worm gears, and worm shafts. 278,728; Dec. 30; Serial No. 291,342; published Oct. 14, 1930. Class 23.
Lipson, Leonard K., doing business as Oxford Handkerchief Company, New York, N. Y. Handkerchiefs. 278,751; Dec. 30; Serial No. 304,289; published Sept. 30, 1930. Class 42.
Liquid Carbonic Corporation, The, Chicago, Ill., and Worcester, Mass. Labeling machines. 278,813; Dec. 30; Serial No. 305,313; published Oct. 21, 1930. Class 23.
Losey, Irving A., doing business as Alpine Ribbon & Carbon Company, Cleveland, Ohio. Carbon paper, printing inks, and typewriter ribbons. 278,716; Dec. 30; Serial No. 295,979; published Oct. 14, 1930. Class 11.
Manley Manufacturing Company, The, York, Pa. Assembly tables, auto pits, auto washers, etc. 278,895; Dec. 30. Class 23.
Margo Sales Company. (See Margolis, Herman.)
Margolis, Herman, doing business as Margo Sales Company, Philadelphia, Pa. Cakes, slabs, blocks, or bars of a chemical preparation. 278,712; Dec. 30; Serial No. 297,535; published Sept. 30, 1930. Class 6.
Marion, Charles E., New York, N. Y. Self-measuring gasoline pumps. 278,820; Dec. 30; Serial No. 304,377; published Oct. 14, 1930. Class 26.
Marion Machine, Foundry & Supply Co., Marion, Ind. Underfeed stokers. 278,746; Dec. 30; Serial No. 302,735; published Oct. 14, 1930. Class 34.

Marketform Company, The, Chicago, Ill. Publication. 278,800; Dec. 30; Serial No. 303,003; published Oct. 21, 1930. Class 38.
Marshallene Cosmetic Co., Montgomery, Ala. Hair-straightening fluid. 278,694; Dec. 30; Serial No. 304,730; published Oct. 7, 1930. Class 6.
Master Photo Finishers of America, Rockford, Ill. Photo and autograph album. 278,876; Dec. 30; Serial No. 299,208; published Oct. 21, 1930. Class 38.
Maxcy, L., Inc., also doing business as Tropical Products Co., Frostproof, Fla. Fresh citrus fruits. 278,770; Dec. 30; Serial No. 301,276; published Oct. 14, 1930. Class 46.
McCarthy, Charles H., Minneapolis, Minn. Publication. 278,861; Dec. 30; Serial No. 300,951; published Oct. 21, 1930. Class 38.
Merit Hosiery Company, Inc., Ozone Park, Long Island, N. Y. Hosiery. 278,788; Dec. 30; Serial No. 302,787; published Oct. 7, 1930. Class 39.
Meyercord Company, The, Chicago, Ill. Decalcomanias. 278,792; Dec. 30; Serial No. 304,204; published Oct. 21, 1930. Class 38.
Miller, William F., doing business as Aladdin Coal Company, Evansville, Ind. Underfeed-stoker coal burners. 278,744; Dec. 30; Serial No. 303,723; published Oct. 14, 1930. Class 34.
Milwaukee Lubricants Co., Milwaukee, Wis. Compound used as a boiler-feed-water disincrustant and acid reagent. 278,779; Dec. 30; Serial No. 304,207; published Sept. 23, 1930. Class 6.
Moirs, Limited, Halifax, Nova Scotia, Canada. Candy. 278,848; Dec. 30; Serial No. 288,082; published Oct. 21, 1930. Class 46.
Montag Brothers, Inc., Atlanta, Ga. Writing paper and envelopes. 278,842; Dec. 30; Serial No. 304,966; published Oct. 14, 1930. Class 37.
Morrell, John & Co., Ottumwa, Iowa. Frozen meats. 278,827; Dec. 30; Serial No. 304,625; published Oct. 14, 1930. Class 46.
Morris, E., Mfg. Co., Detroit, Mich. Razors and shears. 278,885; Dec. 30. Class 23.
Motorstokor Corporation, New York, N. Y. Coal burners. 278,889; Dec. 30. Class 34.
Motor X-Ray Co., Inc., Glendale, Calif. Testing instruments. 278,858; Dec. 30; Serial No. 278,845; published Oct. 14, 1930. Class 26.
Munising Paper Company, The, Munising, Mich. Mimeograph and ledger papers. 278,905; Dec. 30. Class 37.
Music Corporation of America, Chicago, Ill. Emca patent pass-out checks. 278,727; Dec. 30; Serial No. 291,521; published Oct. 14, 1930. Class 50.
Nekoosa-Edwards Paper Company, Port Edwards, Wis. Paper. 278,724; Dec. 30; Serial No. 292,819; published Oct. 14, 1930. Class 37.
New-Best Company. (See Hibler, Albert A.)
New Haven Clock Company, The, New Haven, Conn. Clocks. 278,884; Dec. 39. Class 27.
Northern Maine Plywood Company, Portland, Me. Containers. 278,739; Dec. 30; Serial No. 304,570; published Oct. 21, 1930. Class 2.
Oflesh, Thomas E., Altoona, Pa. Ginger ale and maltless syrups. 278,692; Dec. 30; Serial No. 304,970; published Oct. 21, 1930. Class 45.
Oh-Mi Laboratories. (See Braden, Bertram E.)
Old Leaf Mold Humus Corporation, Indianapolis, Ind. Fertilizers. 278,767; Dec. 30; Serial No. 303,574; published Oct. 14, 1930. Class 10.
Orchard Products Company, Chicago, Ill. Fruit preserves, jams, jellies, etc. 278,822; Dec. 30; Serial No. 305,239; published Oct. 21, 1930. Class 46.
Ottenberg, Joseph, Washington, D. C. Bread. 278,897–8; Dec. 30. Class 46.
Oxford Confectionery Company, Oxford, Pa. Candy confections. 278,865; Dec. 30; Serial No. 300,803; published Oct. 21, 1930. Class 46.
Oxford Filing Supply Co., Brooklyn, N. Y. Index cards and guides, filing folders, paper clips, etc. 278,892–3; Dec. 30. Class 37.
Oxford Handkerchief Company. (See Lipson, Leonard K.)
Pabst Corporation, Milwaukee, Wis. Cereal beverage. 278,696; Dec. 30; Serial No. 304,341; published Oct. 14, 1930. Class 48.
Peck, Theodore A., St. Louis, Mo. Instruction sheets and charts. 278,795; Dec. 30; Serial No. 303,933; published Oct. 21, 1930. Class 38.
Perkins, B. F., & Son, Inc., Williamsett, Mass. Valves. 278,864; Dec. 30; Serial No. 300,806; published Oct. 14, 1930. Class 13.
Phoenix Hosiery Company, Milwaukee, Wis. Hosiery and underwear. 278,870; Dec. 30; Serial No. 300,082; published Sept. 30, 1930. Class 39.
Physicians Laboratories, Inc., Milwaukee, Wis. Prepared cod-liver oil. 278,852; Dec. 30; Serial No. 285,790; published Sept. 30, 1930. Class 6.
Pick-Barth, Albert, Company, Inc., New York, N. Y., and Chicago, Ill. Glassware brushes, dish mops, hairbrushes, etc. 278,859; Dec. 30; Serial No. 300,967; published Oct. 14, 1930. Class 29.
Plastic Stone Products Corp., New York, N. Y. Wall plaster. 278,886; Dec. 30. Class 12.
Plastic Stone Products Corp, New York, N. Y. Wall plaster. 278,904; Dec. 30. Class 12.
Polak & Schwarz, Zaandam, Netherlands, and New York, N. Y. Fruit juices and extracts. 278,749; Dec. 30; Serial No. 301,505; published Oct. 14, 1930. Class 45.
Polak & Schwarz, Zaandam, Netherlands, and New York, N. Y. Fruit juices and extracts. 278,750; Dec. 30; Serial No. 301,503; published Oct. 14, 1930. Class 45.
Port Huron Sulphite & Paper Company, Port Huron, Mich. Correspondence envelopes and printing, cover, and envelope paper. 278,796; Dec. 30; Serial No. 303,860; published Oct. 21, 1930. Class 37.
Powell, G. R., Chemical Company, The, Cleveland, Ohio. Antiseptics, disinfectants, and odorless deodorants. 278,775; Dec. 30; Serial No. 304,426; published Oct. 7, 1930. Class 6.
Price, B. E., doing business as The Whoopee Powder Co., Denver, Colo. Neutralizing, corrective, and laxative powder for internal use. 278,780; Dec. 30; Serial No. 303,988; published Oct. 7, 1930. Class 6.
Raffenbeul, Gust., Schwelm, Germany. Thumb tacks. 278,890; Dec. 30. Class 37.
Raybestos-Manhattan, Incorporated, Passaic, N. J., and Bridgeport, Conn. Brake lining. 278,811; Dec. 30; Serial No. 305,587; published Oct. 21, 1930. Class 35.
Reardon, Mary D., Oakland, Calif. Newspaper articles. 278,866; Dec. 30; Serial No. 300,437; published Oct. 21, 1930. Class 38.
Reid, Herbert W., Brooklyn, N. Y. Coffee. 278,710; Dec. 30; Serial No. 305,493; published Oct. 21, 1930. Class 46.
Rheinische Gummi-und Celluloid-Fabrik, Mannheim, Germany. Combs. 278,872; Dec. 30; Serial No. 299,730; published Oct. 14, 1930. Class 40.
Richards, Albert, Co., Inc., Boston, Mass. Hams, bacon, and fish. 278,829; Dec. 30; Serial No. 304,580; published Oct. 14, 1930. Class 46.
Riegel Paper Corporation, Riegelsville, N. J. Wrapping paper, bristol board, rope, jute, etc. 278,802; Dec. 30; Serial No. 302,334; published Oct. 14, 1930. Class 37.
Robert Enterprises, Inc., also doing business as "Robert," New York, N. Y. Bath salts, perfumes, rouges, etc. 278,854; Dec. 30; Serial No. 284,873; published Sept. 16, 1930. Class 6.
Rokeach, I., & Sons, Inc., Brooklyn, N. Y. Canned salmon. 278,725–6; Dec. 30; Serial Nos. 292,180–1; published Oct. 21, 1930. Class 46.
Royal Vault Manufacturing Co., The, Ottumwa, Iowa. Burial vaults. 278,735; Dec. 30; Serial No. 305,089; published Oct. 21, 1930. Class 2.
Russell, Frank C., doing business as Russell & Co., New York, N. Y. Coffee. 278,845; Dec. 30; Serial No. 304,672; published Oct. 14, 1930. Class 46.
Sager Pen Company, The, Chicago, Ill. Fountain pens and parts thereof. 278,839; Dec. 30; Serial No. 305,244; published Oct. 14, 1930. Class 17.
Sager, Solomon M., Evanston, Ill. Eyewash. 278,723; Dec. 30; Serial No. 293,899; published Sept. 16, 1930. Class 6.
St. George, John, Rochester, N. Y. Liquid preparation. 278,776; Dec. 30; Serial No. 304,391; published Sept. 30, 1930. Class 6.
Sanozym, Incorporated, New York, N. Y. Preparation composed of aromatics, antacids, and digestives. 278,705; Dec. 30; Serial No. 302,834; published Oct. 7, 1930. Class 6.
Schmidt, C., and Sons, Incorporated, Philadelphia, Pa. Malt beverage. 278,695; Dec. 30; Serial No. 304,698; published Oct. 14, 1930. Class 48.
Seneca Falls Machine Company, Seneca Falls, N. Y. Lathes and automatic metal-turning machines and machines for grinding surfaces. 278,752; Dec. 30; Serial No. 304,217; published Oct. 14, 1930. Class 23.
Sinclair Refining Company, New York, N. Y. Spray guns. 278,875; Dec. 30; Serial No. 299,466; published June 10, 1930. Class 23.
Smith & Porter Press, Incorporated, Boston, Mass. Paper labels. 278,887; Dec. 30. Class 37.
Smucker, J. M., Co., The, Orrville, Ohio. Fruit preserves. 278,826; Dec. 30. Serial No. 304,639; published Oct. 14, 1930. Class 46.
Soc. An. Gius. Visconti di Modrone & C., Milan, Italy. Perfume. 278,860; Dec. 30; Serial No. 272,438; published Sept. 30, 1930. Class 6.
Société Anonyme Dentclair, Paris, France. Toothbrushes. 278,871; Dec. 30; Serial No. 299,933; published Oct. 14,1930. Class 29.
Sonder, Sue, Candy Company. (See Jacobs Candy Co. Ltd.)
Southern Fertilizer & Chemical Company, Savannah, Ga. Fertilizers. 278,821; Dec. 30; Serial No. 303,014; published Oct. 21, 1930. Class 10.
Southern Potato Products Co., Inc., Palatka, Fla. Canned vegetables. 278,717; Dec. 30; Serial No. 295,961; published Oct. 14, 1930. Class 46.
Spencer, James W., doing business as Consolidated Drug Corp., New Orleans, La. Sulphur, cold cream, perfume, etc. 278,868; Dec. 30; Serial No. 300,303; published Sept. 16, 1930. Class 6.
Stadler & Hennick, Royalton, Wis. Candy bars frozen or unfrozen. 278,824; Dec. 30; Serial No. 304,975; published Oct. 21, 1930. Class 46.
Standard Brands Incorporated, New York, N. Y. Coffee. 278,711; Dec. 30; Serial No. 305,326; published Oct. 14, 1930. Class 46.
Standard Wall Covering Company, Inc., Philadelphia, Pa. Wall tiles. 278,753; Dec. 30; Serial No. 303,403; published Oct. 7, 1930. Class 12.

Stokely Brothers & Company, Louisville, Ky. Canned peas. 278,836; Dec. 30; Serial No. 301,723; published Oct. 21, 1930. Class 46.
Swift and Company, Chicago, Ill. Shortening made of vegetable oil. 278,830; Dec. 30; Serial No. 304,301; published Oct. 21, 1930. Class 46.
Tavernette Corporation, Chicago, Ill. Electrical refrigerators and refrigerating dispensers. 278,862–3; Dec. 30; Serial Nos. 300,829–30; published Oct. 14, 1930. Class 31.
Trikotfabriken J. Sheisser A. G., Radolfzell, Germany. Jackets, undershirts, drawers, etc. 278,785; Dec. 30; Serial No. 303,729; published Oct. 7, 1930. Class 39.
Tropical Products Co. (See Maxcy, I., Inc.)
Tru-Lax Products Company, Newark, N. J. Chocolate Laxative tablets. 278,773; Dec. 30; Serial No. 304,523; published Oct. 7, 1930. Class 6.
Tuscaloosa Coffee Company, Tuscaloosa, Ala. Coffee. 278,700; Dec. 30; Serial No. 305,548; published Oct. 21, 1930. Class 46.
Twin-Rite Stationery Co. (See Harriman, William, assignor.)
Upson-Walton Company, The, Cleveland, Ohio. Manila rope. 278,741; Dec. 30; Serial No. 304,439; published Oct. 21, 1930. Class 7.
Utilatree Products Inc., Columbia, Pa. Costumers. 278,812; Dec. 30; Serial No. 305,549; published Oct. 21, 1930. Class 32.
Valley Fruit Canning Co. (See Bodle, R. D., Co.)
Victor Manufacturing & Gasket Company, Chicago, Ill. Gaskets. 278,814; Dec. 30; Serial No. 305,459; published Oct. 21, 1930. Class 35.
Vogt, F. G., & Sons, Incorporated, Philadelphia, Pa. Scrapple. 278,834–5; Dec. 30; Serial Nos. 303,230–1; published Oct. 14, 1930. Class 46.
Waldman, Jack, doing business as Korn-Pop Corn Remedy Company, Philadelphia, Pa. Preparation for treating corns, callouses, bunions, etc. 278,704; Dec. 30; Serial No. 302,844; published Sept. 30, 1930. Class 6.
Wallace, R. & Sons Manufacturing Company, Wallingford, Conn. Kitchen and household tools or utensils. 278,818; Dec. 30; Serial No. 304,645; published Oct. 14, 1930. Class 23.
Waterbury Chemical Company, Inc., New York, N. Y. Medicines and pharmaceutical preparations. 278,721; Dec. 30; Serial No. 294,699; published June 17, 1930. Class 6.
Waterman, L. E., Company, New York, N. Y. Writing ink. 278,763–5; Dec. 30; Serial Nos. 303,668–70; published Oct. 14, 1930. Class 11.
Waterman, L. E., Company, New York, N. Y. Fountain pens and mechanical pencils and parts thereof. 278,840; Dec. 30; Serial No. 305,127; published Oct. 14, 1930. Class 37.
White, Clinton R., Chicago, Ill. Publication. 278,801; Dec. 30; Serial No.302,520; published Oct. 21, 1930. Class 38.
Whoopee Powder Co., The. (See Price, B. E.)
Wilcox Novelty Company, The, Athol, Mass. Hairbrushes, brushes for toilet use, military sets of hairbrushes, etc. 278,874; Dec. 30; Serial No. 299,478; published Oct. 14, 1930. Class 29.
Winsor Company, The, Bucyrus, Ohio. Dump trucks. 278,742; Dec. 30; Serial No. 304,227; published Oct. 21, 1930. Class 19.
Youngstown Sheet & Tube Company, The, Youngstown, Ohio. Metal pipe and tubing. 278,736; Dec. 30; Serial No. 305,022; published Oct. 14, 1930. Class 13.
Zofness, Martin I., Bartlesville, Okla. Contract cards. 278,797; Dec. 30; Serial No. 303,730; published Oct. 14, 1930. Class 37.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS

American Lending Library, Inc., College Point, N. Y. American Lending Library. For Bookcases, Book Racks, Book Shelves, and Books. 38,411; Dec. 30.
Arrowhead Springs Beverage Company, Ltd., Los Angeles, Calif. Old Monterey Pale Dry Ginger Ale. For Ginger Ale. 38,412; Dec. 30.
Arrowhead Springs Beverage Company, Ltd., Los Angeles, Calif. Castilian Club Pale Dry Ginger Ale. For Ginger Ale. 38,413; Dec. 30.
Blodgett-Beckley Company, Toledo, Ohio. Royal Garden. For Tea. 38,414; Dec. 30.
Bradford, Arthur T., doing business as Will-Kill Company, Omaha, Nebr. Will-Kill. For Rodent Exterminator. 38,415; Dec. 30.
Calvert Company, Inc., Seattle, Wash. Calvert. For Canned Salmon. 38,416; Dec. 30.
Calvert Company, Inc., Seattle, Wash. Oceankist. For Canned Salmon. 38,417; Dec. 30.
Container Corporation of America, Chicago, Ill. Creamery Butter. For Creamery Butter. 38,418; Dec. 30.
Continental Baking Company, New York, N. Y. Hostess Twinkies. For Cake. 38,419; Dec. 30.
Diamond Ink Company, Dallas, Tex. Diamond Ink. For Ink. 38,420; Dec. 30.
Drug Products Co. Inc., The, Long Island City, N. Y. Mc. 63 Calguinate. For Medicinal Preparation. 38,421; Dec. 30.
Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's Spice Cakes. For Spice Cake. 38,422; Dec. 30.
Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's Crumb Buns. For Crumb Bun. 38,423; Dec. 30.
Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's Corn Muffins. For Corn Muffins. 38,424; Dec. 30.
Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's Home Made Fresh Fruit Pie. For Fruit Pie. 38,425; Dec. 30.
Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's Crumb Cake. For Crumb Cake. 38,426; Dec. 30.
Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's Delicious Doughnuts. For Doughnuts. 38,427; Dec. 30.
Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's Lunch Cakes. For Lunch Cake. 38,428; Dec. 30.
Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's Vienna Crumb Cake. For Crumb Cake. 38,429; Dec. 30.
Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's Home Made Meringue Pie. For Meringue Pie. 38,430; Dec. 30.
Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's Stollen. For Stollen. 38,431; Dec. 30.
Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's Special Holiday Pie. For Pie. 38,432; Dec. 30.
Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's Jelly Roll. For Jelly Roll. 38,433; Dec. 30.
Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's Butter Cake. For Butter Cake. 38,434; Dec. 30.
Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's Coffee Ring. For Coffee Rings. 38,435; Dec. 30.
Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's Village Biscuits. For Village Biscuits. 38,436; Dec. 30.
Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's Cheese Cake. For Cheese Cake. 38,437; Dec. 30.
Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's Parker House Rolls. For Parker House Rolls. 38,438; Dec. 30.
Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's Lady Fingers. For Lady Fingers. 38,439; Dec. 30.
Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's Home Made Layer Cake. For Layer Cake. 38,440; Dec. 30.
Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's Special Nut Cake. For Nut Cake. 38,441; Dec. 30.
Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's Almond Filled Ring. For Almond-Filled Ring. 38,442; Dec. 30.
Dugan Brothers, Inc., Brooklyn, N. Y. Dugan's Sugar Buns. For Sugar Buns. 38,443; Dec. 30.
E-Z Rust Remover Co. (See Wasserman, Leon I.)
Gobel, Adolf, Inc., New York, N. Y. Top O'The Morning. For Pork Sausages. 38,444; Dec. 30.
Hoague-Sprague Corporation, Lynn, Mass. Fifth Ave. For Boxes. 38,445; Dec. 30.
Hygienic Products Company, The, Canton, Ohio. Sani-Flush. For Powdered Compound for Cleaning Water-Closet Bowls and Automobile Radiators. 38,446; Dec. 30.
Icy Fruit Roll Company, Chicago, Ill. Icy-Fruit-Roll. For Frozen Confections. 38,447; Dec. 30.
Italian Importing Co. of New York, The, New York, N. Y. Cirillo. For Macaroni. 38,448; Dec. 30.
Kaempfer, Fred W., Chicago, Ill. Big Kernel. For Canary-Bird Seed. 38,449; Dec. 30.
Kaempfer, Fred W., Chicago, Ill. Variety. For Birdseed. 38,450; Dec. 30.
Kerns, J., Inc., Milwaukee, Wis. S'Mild. For Cigars. 38,451; Dec. 30.
Mashburn & Tholborn, Independence, Mo. Jo-An. For Orange Marmalade. 38,452; Dec. 30.
Morrell, John, & Co., Ottumwa, Iowa. Morrell's Pride Hasty Ham. For Ham. 38,453; Dec. 30.
New Jersey Bonded Floor Co., Garfield, N. J. A Master Floor by Master Craftsmen. For Composition Floor Coverings. 38,454; Dec. 30.
New York Nut Shelling Co., Inc., New York, N. Y. Pyramid Salted Nuts. For Salted Nuts. 38,455; Dec. 30.
Northern Pines Pickling Co., Minneapolis, Minn. Golden-Cream. For Mayonnaise. 38,456; Dec. 30.
Northern Pines Pickling Co., Minneapolis, Minn. Ever-Crisp. For Sweet Pickles. 38,457; Dec. 30.
Pacific Gum Company, San Francisco, Calif. Lime Rickey Gum. For Chewing Gum. 38,458; Dec. 30.
Packing & Marketing, Inc., San Francisco, Calif. Blue Diamond. For Olives. 38,459; Dec. 30.
Pratt Paper Company, Des Moines, Iowa. San-X. For Bathroom Paper. 38,460; Dec. 30.
Ring-Rout, Inc., New Orleans, La. Ring-Rout. For Medicament for the Treatment of a Skin Affection. 38,461; Dec. 30.
Seeman Brothers, Inc., New York, N. Y. White Rose Old Hickory Ham. For Cooked Hams. 38,462; Dec. 30.
Sockloff, Abraham, New York, N. Y. Cloz Eltona Clenz. For Cleaning Fluid. 38,463; Dec. 30.
Southwestern Portland Cement Company, Dayton, Ohio. Miami High Early Strength. For Cement. 38,464; Dec. 30.

Stametco Broom & Mfg. Co., Inc., St. Paul, Minn. A to Z. For Brooms and Mops. 38,465; Dec. 30.
Steelcote Manufacturing Company, St. Louis, Mo. Rubber Enamel. For Rubber Enamel. 38,466; Dec. 30.
Texas Margarine Company, Dallas, Tex. Blue Bonnet. For Sandwich Spread. 38,467; Dec. 30.
Texas Margarine Company, Dallas, Tex. Blue Bonnet. For Salad Dressing. 38,468; Dec. 30.
Tucker, S. Allen, Philadelphia, Pa. Fruit Nectar. For Beverage Syrup. 38,469; Dec. 30.
Union Pacific Oil Company, Inc., Long Beach, Calif. Union Pacific Gasoline. For Gasoline. 38,470; Dec. 30.
Upsher Smith, F. A., doing business as Upsher Smith Company, Minneapolis, Minn. Tincture Digitalis (Upsher Smith). For Tincture Digitalis. 38,471; Dec. 30.
Ward Baking Company, New York, N. Y. Pan-O-Rye. For Bread. 38,472; Dec. 30.
Wasserman, Leon I., doing business as E-Z Rust Remover Co., Stafford Springs, Conn. E-Z Rust Remover. For Liquid the Purpose of Which is to Remove Rust. 38,473; Dec. 30.
Will-Kill Company. (See Bradford, Arthur T.)

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS

Arden, Elizabeth, Inc., doing business as Elizabeth Arden, New York, N. Y. The Soul is Never Empty of the Loveliness it gives. For Beauty Boxes, Perfumes, Compacts, Poudre, d'Illusion Bath Salts, Soaps. 12,920; Dec. 30.
Arden, Elizabeth, Inc., doing business as Elizabeth Arden, New York, N. Y. Make a Plan for Beauty. For Lille Lotion, Protecta Cream, No-Shine, Illustion Powder, Amoretta Cream. 12,921; Dec. 30.
Arden, Elizabeth, Inc., doing business as Elizabeth Arden, New York, N. Y. With Hats off the Face. For Spot-Pruf Cream, Spotpruf Lotion, Anti-Brown-Spot Ointment, Muscle Oil, Pore Cream, Antiwrinkle Cream, Poudre d'Illusion, Illusion Talcum. 12,922; Dec. 30.
Beebe Bros., Seattle, Wash. The Biggest Little Saw in the World. For Jig Saws. 12,923; Dec. 30.
Block, Solomon, doing business as Rittenhouse Candy Company, Philadelphia, Pa. Take a Steve Brodie. For Peanut Chew Candy. 12,924; Dec. 30.
Crowe, John C., Los Angeles, Calif. Athletes Foot. For "Rab" Foot Crack and Itching Treatment. 12,925; Dec. 30.
Elkin, Newton, Philadelphia, Pa. Aphrodite. For Shoes. 12,926; Dec. 30.
Greenleaf & Crosby Company Inc., New York, N. Y. Pour Le Sport. For Jewelry. 12,927; Dec. 30.
Greenleaf & Crosby Company, Inc., New York, N. Y. Le Dernier Cri. For Jewelry. 12,928; Dec. 30.
Greenleaf & Crosby Company, Inc., New York, N. Y. Pour Le The. For Jewelry. 12,929; Dec. 30.
Greenleaf & Crosby Company, Inc., New York, N. Y. Pour Le Bal. For Jewelry. 12,930; Dec. 30.
Greenleaf & Crosby Company, Inc., New York, N. Y. Pour Les Mains Elegantes. For Jewelry. 12,931; Dec. 30.
Greenleaf & Crosby Company Inc., New York, N. Y. Pour L'Opera. For Jewelry. 12,932; Dec. 30.
Greenleaf & Crosby Company, Inc., New York, N. Y. Pour La Soirée. For Jewelry. 12,933; Dec. 30.
Heinz, H. J. Company, Pittsburgh, Pa. Golden Pippins Finely Shred . . . The Undercut of the Sirloin . . . Spices and Fruit. For Mincemeat. 12,934; Dec. 30.
Kolynos Company, The, New Haven, Conn. Teeth Three Shades Whiter. For Dental Cream. 12,935; Dec. 30.
Kolynos Company, The, New Haven, Conn. Glistening White Teeth. For Dental Cream. 12,936; Dec. 30.
Kolynos Company, The, New Haven, Conn. Sound Teeth—Radiant Health. For Dental Cream. 12,937; Dec. 30.
Kolynos Company, The, New Haven, Conn. Teeth Clean and Sparkling White. For Dental Cream. 12,938; Dec. 30.
Rittenhouse Candy Company. (See Block, Solomon.)
Sheer Pharmacal Corporation, St. Louis, Mo. Sheer Removes Superfluous Hair. For a Depilatory. 12,939; Dec. 30.
Surety Manufacturing Company, St. Louis, Mo. Insure Your Limbs and Life. For Heel Retainers and Heel Braces. 12,940; Dec. 30.
Union Pacific Oil Company, Inc., Long Beach, Calif. Union Pacific Motor Oil. For Oil. 12,941; Dec. 30.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Abrahamsen, Gustav A., Locust Valley, N. Y. Automobile polishing cloth which has been chemically treated. 307,082; Dec. 30. Class 4.
Ace Products Co. (See Perkins, Timothy D.)
Allbright, Rufus D., Chicago, Ill. Publication. 307,177; Dec. 30. Class 38.
Aluminum Company of America, Pittsburgh, Pa. Caps and closure seals for bottles and other containers. 307,879–80; Dec. 30. Class 50.
American Hat Co. Inc., The, Norwalk, Conn. Men's hats. 303,940; Dec. 30. Class 39.
Aplus Products Co. (See Salve, Oliver.)
Arnold, Charles S., Inc., Los Angeles, Calif. Bath salts and water softeners. 303,870; Dec. 30. Class 6.
Art Chemical Works, Inc., Tampa, Fla. Poultry supplies. 296,850; Dec. 30. Class 6.
Asbestos Limited Inc., New York, N. Y. Wall board. 307,882; Dec. 30. Class 12.
Asiatic Petroleum Company, Limited, The, London, England. Insecticides. 305,603; Dec. 30. Class 6.
Aspirin Seltzer Corporation, North Cambridge, Mass. Medicinal compound. 307,761; Dec. 30. Class 6.
Associated Press, The, New York, N. Y. Series of cartoons. 306,553; Dec. 30. Class 38.
Astier, Pierre, P. P., doing business as Laboratoires P. Astier, Paris, France. Vaccine. 306,879; Dec. 30. Class 6.
Balfour, Guthrie & Co., Limited, San Francisco, Calif. Kerosene emulsion. 307,029; Dec. 30. Class 6.
Bamberger, L., & Co., Newark, N. J. Men's summer suits. 306,484; Dec. 30. Class 39.
Barlow & Seelig Mfg. Co., Ripon, Wis. Laundry washing machines. 308,004; Dec. 30. Class 24.
Barstain Company, The, Malden, Mass. Waterproof articles of sheet material. 307,127; Dec. 30. Class 39.
Beatrice Creamery Company, The, Chicago, Ill. Butter and ice cream. 307,038; Dec. 30. Class 46.
Beatrice Creamery Company, Chicago, Ill. Butter. 307,575; Dec. 30. Class 46.
Bennett, Harold, doing business as Melrose Chemical Co., Melrose, Mass. Preparation for finishing, bleaching, sizing, etc., textile fabrics. 308,284; Dec. 30. Class 6.
Bernowitz & Goldstein, Philadelphia, Pa. Suits, overcoats, topcoats, and trousers. 305,647; Dec. 30. Class 39.
Bishow, Robert B., doing business as Fountain News Shop, Cincinnati, Ohio. Newspapers, magazines, greeting cards, etc. 307,155; Dec. 30. Class 38.
Bourie, Ignace, doing business as The Bourieo Mfg. Co., Reno, Nev. Liquid cleaner. 307,474; Dec. 30. Class 4.
Brunswick-Balk-Collender Company, The, Chicago, Ill. Pocket-billard balls. 305,213–14; Dec. 30. Class 22.
Buck Dryer Corporation, New York, N. Y. Pneumatic apparatus for drying raw, partly-prepared, or finished materials contained therewithin. 307,582; Dec. 30. Class 23.
Buckley, Newhall Company, The, New York, N. Y. Crockery and dishes of porcelain and china. 299,368–9; Dec. 30. Class 30.
Buffalo Envelope Company, Buffalo, N. Y. Envelopes. 299,953; Dec. 30. Class 37.
Burch Manufacturing Company, Kansas City, Mo. Candied pop corn. 307,841; Dec. 30. Class 46.
C & H Sugar Refining Corporation. (See California and Hawaiian Sugar Refining Corporation, Limited.)
Cahn, Louis D., doing business as L. D. Cahn Co., New York, N. Y. Kitchen utensils. 293,515; Dec. 30. Class 13.
California Crushed Fruit Corporation, Los Angeles, Calif. Beverages and syrups, extracts, etc. 308,058; Dec. 30. Class 45.
California and Hawaiian Sugar Refining Corporation, Limited, doing business as C & H Sugar Refining Corporation, San Francisco, Calif. Sugar. 304,749; Dec. 30. Class 46.
California Spray Chemical Co., Berkeley, Calif. Insecticides, germicides, and fungicides. 308,241; Dec. 30. Class 6.
Cardoza, T. J., Company, The, San Francisco, Calif. Binder covers. 304,236; Dec. 30. Class 37.
Carnation Milk Products Company, Oconomowoc, Wis., now by change of name Carnation Company. Ice cream. 283,661–2; Dec. 30. Class 46.
Central Press Association, Inc., New York, N. Y. Newspaper cartoon. 307,766; Dec. 30. Class 38.
Chaney & Rowell, Inc., Nampa, Idaho. Deciduous fruits. 306,934; Dec. 30. Class 46.
Chicago Flexible Shaft Company, Chicago, Ill. Electric food mixers. 307,131; Dec. 30. Class 21.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Cold Snap Incorporated, New York, N. Y. Frozen confection. 307,346; Dec. 30. Class 46.
Combustion Equipment Co., Kansas City, Mo. Combustion equipment. 295,710; Dec. 30. Class 34.
Constantine Laboratories, Cincinnati, Ohio. General tonic. 306,431; Dec. 30. Class 6.
Cooper, William, & Nephews, Incorporated, Chicago, Ill. Liquid spray. 308,245; Dec. 30. Class 6.
Crawford, McGregor and Canby Company, The, Dayton, Ohio. Golf clubs. 308,062; Dec. 30. Class 22.
Creger, Matilda, doing business as Sunsap Laboratories, Los Angeles, Calif. Dentifrices. 295,506; Dec. 30. Class 6.
Crown Cork & Seal Company, Inc., Baltimore, Md. Caps and closure members for containers. 307,479; Dec. 30. Class 50.
David, J. B., New York, N. Y., and St. Etienne, France. Velvet ribbon. 307,619; Dec. 30. Class 42.
Deane Plaster Co., The, Lankers, N. Y. Medicated kidney plasters. 306,296; Dec. 30. Class 6.
Dell Publishing Company, New York, N. Y. Magazine. 307,570; Dec. 30. Class 38.
Doty, William H., Oakland, Calif. Machines for generating and liberating ozonized vapors. 299,303; Dec. 30. Class 44.
Eagle-Ottawa Leather Co., Grand Haven, Mich., and New York, N. Y. Patent leather. 308,011; Dec. 30. Class 1.
Edwards, Eugene N., Los Angeles, Calif. Bond paper. 306,092; Dec. 30. Class 37.
Electrical Engineering & Equipment Co. (See Newman, George.)
Ellis Silver Company Inc., New York, N. Y. Silver-plated hollow ware. 307,665; Dec. 30. Class 28.
Emery Industries, Inc., St. Bernard, Ohio. Candles. 307,769; Dec. 30. Class 15.
Empire Box Corporation, Chicago, Ill. Paper boxes and cartons. 306,225; Dec. 30. Class 2.
Empire Laboratory Supply Co. Inc., New York, N. Y. Apparatus for automatically changing tissues during the process of dehydration and microslide filing units. 307,666; Dec. 30. Class 26.
Exhibit Supply Company, The. (See Meyer, John F.)
Fawcett, E. W., Denver, Colo. Motor-lubricating oil. 307,546; Dec. 30. Class 15.
Firestone Footwear Company, Hudson, Mass. Adhesive liquid cement. 307,446; Dec. 30. Class 5.
Fisher Flouring Mills Company, West Waterway, Harbor Island, Seattle, Wash. Wheat flour. 307,806; Dec. 30. Class 46.
Flintkote Company, The, Boston, Mass. Asphaltic roofing composition shingles, waterproof building paper, etc. 292,101; Dec. 30. Class 12.
Ford, Eva (Mrs. John W. Ford), doing business as Southern Hair Ointment Company, Bowling Green, Ky. Hair ointment. 303,104; Dec. 30. Class 6.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 307,669–71; Dec. 30. Class 42.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 307,934; Dec. 30. Class 42.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 307,937; Dec. 30. Class 42.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 307,939–41; Dec. 30. Class 42.
Fort Howard Paper Company, Green Bay, Wis. Paper towels, napkins, and toilet paper, crepe and tissue paper. 307,527; Dec. 30. Class 37.
Fountain News Shop. (See Bishow, Robert B.)
Friedberg, Adolph, Montreal, Quebec, Canada. Maltless beverages and syrups for making the same. 305,809; Dec. 30. Class 45.
Fur Products Company, Butler, Ind. Helmets and aviator caps. 307,093; Dec. 30. Class 39.
Garraton, Luis, S. En C., San Juan, P. R. Prophylactic rubber articles. 307,393; Dec. 30. Class 44.
General Electric X-Ray Corporation, Chicago, Ill. Darkroom paint. 306,639; Dec. 30. Class 16.
General Refractories Company, Philadelphia, Pa. Refractory brick. 307,771; Dec. 30. Class 12.
General Shoe Lace Company, Inc., Louisville, Ky. Shoe laces. 307,395; Dec. 30. Class 40.
Gibson, Guy T., Inc., New York, N. Y. Perfume, toilet water, sachet, etc. 304,808; Dec. 30. Class 6.
Gilcor Manufacturing Co. Inc., New York, N. Y. Washing starches. 307,396; Dec. 30. Class 6.
Golden Eagle Milling Co., Petaluma, Calif. Dairy and poultry foods. 297,187; Dec. 30. Class 46.
Golden Nugget Sweets, San Francisco, Calif. Candy. 295,026; Dec. 30. Class 46.
Great Western Oil Company, The, Cleveland, Ohio. Gasoline. 282,645; Dec. 30. Class 15.
Grimes Sprinkler Company, Inc., Newark, N. J. Automatic sprinkler systems. 307,892; Dec. 30. Class 13.
Guidetti, Ferruccio, New York, N. Y. Air pumps, blowers, water motors, and parts thereof. 308,109; Dec. 30. Class 23.
H. H. H. Manufacturing Company, The, Dunkirk, N. Y. Preparations for colds, tonics, laxatives, and liniments. 291,004; Dec. 30. Class 6.
Hamburger, Rose R., doing business as Nustro Laboratories, Baltimore, Md. Preparation for the relief of head colds, hay fever, etc. 308,067; Dec. 30. Class 6.
Harrison Wholesale Company, Chicago, Ill. Pneumatic tires and inner tubes. 301,758; Dec. 30. Class 35.
Hass, Ernest S., Williams, Calif. Cattle. 308,068; Dec. 30. Class 46.
Hiram, Inc., Milwaukee, Wis. Electric lamps. 306,400; Dec. 30. Class 21.
Hoberg Paper and Fibre Co., Green Bay, Wis. Paper napkins. 297,914; Dec. 30. Class 37.
Hublinger Company, The, Keokuk, Iowa. Syrup product. 307,356; Dec. 30. Class 46.
Hudson Silk Hosiery Co., Inc., Charlotte, N. C. Hosiery. 306,606; Dec. 30. Class 39.
Hunter, Elijah W., Tulsa, Okla. Liniment. 307,549; Dec. 30. Class 6.
Hurd, Earl, doing business as Earl Hurd Laboratories, Oklahoma City, Okla., Preparations for promoting the growth of hair. 291,832; Dec. 30. Class 6.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Soaps and washing powders. 305,568; Dec. 30. Class 4.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Disinfectants and bleaching powders. 305,569; Dec. 30. Class 6.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Adhesives. 308,015; Dec. 30. Class 5.
International Cordage & Yarn Co., The. (See Sykes, Alexander L.)
International Silver Company, Meriden, Conn. Flatware. 306,058; Dec. 30. Class 28.
Irving Engineering Co., Inc., Sioux City, Iowa. Automobile heaters. 307,497; Dec. 30. Class 19.
Iten Biscuit Company, Omaha, Nebr. Biscuit, cake, crackers, and cookies. 308,114; Dec. 30. Class 46.
K-P-C Company. (See Kraft-Phenix Cheese Company.)
Kalite Company Limited, Pasadena, Calif. Acoustical plaster. 307,529; Dec. 30. Class 12.
King Features Syndicate, Inc., New York, N. Y. Newspaper column. 307,404; Dec. 30. Class 38.
Klingenberg, Axel V., Copenhagen, Denmark. Chewing gum. 308,073; Dec. 30. Class 46.
Knickerbocker Stamping Co., Parkersburg, W. Va. Ice-manufacturing apparatus. 307,680; Dec. 30. Class 31.
Knott, William R., Rochester, N. Y. Salts used for bathing. 307,625; Dec. 30. Class 6.
Koepp, Reinhart J., doing business as The Luglyfe Sales Co., Euclid Village and Cleveland, Ohio. Preservative compound for battery terminals. 306,357; Dec. 30. Class 6.
Kraft-Phenix Cheese Company, now by change of name K-P-C Company, assignor to Kraft-Phenix Cheese Corporation, Chicago, Ill. Mayonnaise, salad dressing, and relish spread. 272,286; Dec. 30. Class 46.
Kramer-Brandeis, Inc., doing business as Londonderry, New York, N. Y. Neckties, robes, and mufflers. 302,860; Dec. 30. Class 39.
Laboratoires P. Astier. (See Astier, Pierre P. P.)
Lanman & Kemp, Inc., New York, N. Y. Almanacs. 307,682; Dec. 30. Class 38.
Lichtenstein, William H., doing business as Peerless Garment Co., Boston, Mass. Raincoats, hats, and jackets. 289,631; Dec. 30. Class 39.
Light Grain & Milling Co., The, Liberal, Kans. Wheat flour. 307,556; Dec. 30. Class 46.
Litwin & Sons, Cincinnati, Ohio. Finger rings. 307,167; Dec. 30. Class 28.
Londonderry. (See Kramer-Brandeis, Inc.)
Luglyfe Sales Co., The. (See Koepp, Reinhart J.)
Macfadden Publications, Inc., New York, N. Y. Magazine. 308,147; Dec. 30. Class 38.
Macklanburg-Duncan Company, Oklahoma City, Okla. Weather stripping. 307,820; Dec. 30. Class 12.
Maclin-Zimmer-McGill Tobacco Co., Inc. Petersburg, Va. Tobaccos. 308,022; Dec. 30. Class 17.
Madam Anna Porter. (See Porter, Annie.)
Maimin, H., Company Incorporated, New York, N. Y. Electric cloth-cutting machines. 307,412; Dec. 30. Class 21.
Makechnie, Forrest B., Boston, Mass. Ice cream. 307,275–6; Dec. 30. Class 46.
Mallory, P. R., & Co. Incorporated, Indianapolis, Ind. Electrode material. 307,627; Dec. 30. Class 14.
Malloy, Limited, San Pedro, Calif. Golf game. 307,558; Dec. 30. Class 22.
Marshall, Adam, Newark, N. J. Arch supports. 307,100; Dec. 30. Class 44.
Mayer, Lazare L., New York, N. Y. Hair nets, silk nets, water-wave nets. 306,800; Dec. 30. Class 42.
McDonald & Machado, Venice, Calif. Gasoline. 307,360; Dec. 30. Class 15.
Melrose Chemical Co. (See Bennett, Harold.)
Merck & Co., Inc., Rahway, N. J. Fluid for dry-cleaning garments, upholstery, and other textile materials. 291,463; Dec. 30. Class 4.
Meredith Publishing Company, Des Moines, Iowa. Publication. 307,982; Dec. 30. Class 38.
Metzler, Gottfried, Ambler, Pa. Preparation for rheumatic ailments. 307,601; Dec. 30. Class 6.
Meyer, John F., doing business as The Exhibit Supply Company, Chicago, Ill. Coin-operated amusement machines. 307,213; Dec. 30. Class 22.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Meyercord Company, The, Chicago, Ill. Decalcomanias. 304,205; Dec. 30. Class 38.
Mexican Gulf Packing Co. Inc., Pascagoula, Miss. Canned shrimp. 305,716; Dec. 30. Class 46.
Mi Hogar Cigar Corporation, New York, N. Y. Cigars. 307,686; Dec. 30. Class 17.
Montag Bros. Inc., Atlanta, Ga. Writing paper and envelopes. 303,483; Dec. 30. Class 37.
Morgan, Beatrice. (See Ribner, Ida.)
Murdock, Victoria, Estate, doing business as The Wichita Eagle, Wichita, Kans. Newspaper. 307,325; Dec. 30. Class 38.
National Society of the Sons of the American Revolution, Washington, D. C. Magazine. 307,985; Dec. 30. Class 38.
National Tube Company, Pittsburgh, Pa. Metal pipe. 307,533; Dec. 30. Class 13.
New Jersey Wood Finishing Co. Inc., Woodbridge, N. J. Varnished cambric fabrics and tapes and varnished tapers. 304,421; Dec. 30. Class 21.
Newman, George, doing business as Electrical Engineering & Equipment Co., Long Island City, N. Y. Electric lamps, electric mercury-tube control switches, etc. 306,280; Dec. 30. Class 21.
Nier, Hermann, Beierfeld, Germany. Hurricane lamp chimneys made of glass. 305,535; Dec. 30. Class 33.
Nier, Hermann, Beierfeld, Germany. Hurricane lamp chimneys made of glass. 305,873; Dec. 30. Class 33.
Nier, Herman, Beierfeld, Germany. Hurricane lamp chimneys made of glass. 306,742; Dec. 30. Class 33.
Northern States Mfg. Co., Inc., doing business as Toastall Co., Minneapolis, Minn. Electric toasters. 291,135; Dec. 30. Class 21.
North Vernon Lumber Mills, doing business as The Platter Cabinet Company, North Vernon, Ind. Unitary electrical apparatus for the reproduction of sound. 294,287; Dec. 30. Class 21.
Northwest Police Journal, Inc., Seattle, Wash. Periodical. 307,503; Dec. 30. Class 38.
Nostro Laboratories. (See Hamburger, Rose.)
Opco Co., Inc., Buffalo, N. Y. Lubricating oils and greases, gasoline, motor-fuel oil, etc. 298,457; Dec. 30. Class 15.
Outlet Company, The, Providence, R. I. Coats, trousers, and waistcoats. 307,900; Dec. 30. Class 39.
Pacent Electric Company, Inc., New York, N. Y. Cutting heads for cutting sound grooves in phonograph records. 306,834; Dec. 30. Class 23.
Pal Products Co. Inc., Brooklyn, N. Y. Cleansing and polishing powder. 307,010; Dec. 30. Class 4.
Paper Manufacturers Co., Inc., Philadelphia, Pa. Gummed paper tape. 306,505; Dec. 30. Class 37.
Pease, L. V., & Company, Seattle, Wash. Walnuts. 297,871; Dec. 30. Class 46.
Peerless Garment Co. (See Lichtenstein, William H.)
Peo Manufacturing Corporation, Rochester, N. Y. Game of skill. 306,506; Dec. 30. Class 22.
Perco-Steril Machine Corporation, New York, N. Y. Liquid used for cleaning, polishing, and restoring metals, glass, etc. 300,885; Dec. 30. Class 4.
Perkins, Timothy D., doing business as Ace Products Co., San Diego, Calif. Cleansing liquid. 306,711; Dec. 30. Class 4.
Perpetual Self Winding Watch Company of America, Inc., New York, N. Y. Self-winding watches and clocks. 308,031; Dec. 30. Class 27.
Phil-Lors' Chemical Co., The. (See Stahl, W. J.)
Platter Cabinet Company, The. (See North Vernon Lumber Mills.)
Porter, Annie, doing business as Madame Anna Porter, Chicago, Ill. Hair grower. 308,220; Dec. 30. Class 6.
Pressed Prism Plate Glass Company, Chicago, Ill. Glass. 308,083; Dec. 30. Class 33.
Prose-Maco Manufacturing Company, Kansas City, Mo. Wardrobes, umbrella containers, etc. 307,505; Dec. 30. Class 32.
Provident Knitting Mills, Philadelphia, Pa. Sweaters and sweater coats and bathing suits. 303,546; Dec. 30. Class 39.
Purdy, Frederick A., Scarsdale, N. Y. Garage doors and automatic control and operating mechanism for opening and closing the same. 302,642; Dec. 30. Class 12.
Quene Stove Works Incorporated, Albert Lea, Minn. Poultry-husbandry apparatus. 307,991; Dec. 30. Class 50.
Quinn, Mrs. Hugh, Fort Worth, Tex. Liquid composition. 308,266; Dec. 30. Class 6.
Radio Corporation of America, New York, N. Y. Antenna coupling units, extension coupling units, radio outlet units, etc. 305,088; Dec. 30. Class 21.
Radway, Dorothy, West Brighton, N. Y. Seeds. 296,564; Dec. 30. Class 1.
Ramona Brew Associates, Washington, D. C. Malt beverages. 302,514; Dec. 30. Class 48.
Raybestos-Manhattan, Incorporated, Bridgeport, Conn. Brake lining. 305,585–6; Dec. 30. Class 35.
Respro Inc., Cranston, R. I. Leather substitute. 307,992; Dec. 30. Class 50.
Rhodes Ranch Egg Company, The, Denver, Colo. Eggs. 307,631; Dec. 30. Class 46.
Ribner, Ida, doing business as Beatrice Morgan, Brooklyn, N. Y. Creams, lemon-bleach pack, face powder, etc. 307,219; Dec. 30. Class 6.
Richman & Samuels Inc., New York, N. Y. Fresh deciduous fruits, vegetables, cantaloupes. 295,053; Dec. 30. Class 46.
Richman & Samuels, Inc., New York, N. Y. Fresh deciduous fruits. 303,549; Dec. 30. Class 46.
Ring-Rout, Inc., New Orleans, La. Medical compound. 307,508; Dec. 30. Class 6.
Robbins Music Corporation, New York, N. Y. Musical publications. 303,514; Dec. 30. Class 38.
Rock, George W., doing business as The Rock-Way Company, Oakland, Calif. Gauging and aligning apparatus for vehicle wheels. 308,171; Dec. 30. Class 26.
Roeca, Frank W., Omaha, Nebr. Hair oil. 308,085; Dec. 30. Class 6.
Ross-Frankel Contractors Inc., New York, N. Y. Store fixtures. 305,880; Dec. 30. Class 32.
Rost, H., & Co., Hamburg, Germany. Insulated wires and cables and for an insulating compound. 306,108; Dec. 30. Class 21.
Royal Electric Burglar Alarm Corp., Brooklyn, N. Y. Electric burglar alarms and electric burglar-alarm systems. 276,150; Dec. 30. Class 21.
Salve, Oliver, doing business as Aplus Products Co., New York, N. Y. Lubricating oil. 307,510; Dec. 30. Class 15.
Sandoz Chemical Works, Inc., New York, N. Y. Chemical preparations. 307,994; Dec. 30. Class 6.
Scaramelli & Company, Inc., New York, N. Y. Cheese. 307,957; Dec. 30. Class 46.
Schlesinger, Joseph A., Atlanta, Ga. Candy. 304,347; Dec. 30. Class 46.
Scholl Mfg. Co., Inc., The, Chicago, Ill. Foot-corrective appliances. 307,243; Dec. 30. Class 44.
Sears, Roebuck and Co., Chicago, Ill. Men's four-in-hand ties. 306,370; Dec. 30. Class 39.
Sears, Roebuck and Co., Chicago, Ill. Baby bathtubs, baking pans, mixing bowls, etc. 306,578; Dec. 30. Class 13.
Sharples Solvents Corporation, The, Philadelphia, Pa. Solvent for lacquers, etc. 298,855; Dec. 30. Class 16.
Shendell Manufacturing Company, Inc., New York, N. Y. Piece goods and fabrics of velour, cotton, damask, etc. 306,301; Dec. 30. Class 42.
Shendell Manufacturing Company, Inc., New York, N. Y. Portières, furniture scarfs, draperies, etc. 306,302; Dec. 30. Class 42.
Sherman, Falk, New York, N. Y. Cotton sheets, sheeting, pillowcases, and quilt covers. 306,669; Dec. 30. Class 42.
Shofstall & Shofstall, Omaha, Nebr. Game board. 308,224; Dec. 30. Class 22.
Sigma Delta Psi, Ann Arbor and Ypsilanti, Mich. Keys used as fraternal society emblems. 307,328; Dec. 30. Class 28.
Sikes, M. H., Atlanta, Ga. Metallic oil and gasoline cans. 303,217; Dec. 30. Class 2.
Sitroux Importing Co., Inc., New York, and Brooklyn, N. Y. Sanitary pads for infants' use. 304,255; Dec. 30. Class 42.
Sitroux Importing Co., Inc., New York and Brooklyn, N. Y. Hair nets. 304,256; Dec. 30. Class 42.
Sitroux Importing Co., Inc., New York and Brooklyn, N. Y. Facial and wiping tissue. 304,257; Dec. 30. Class 37.
Social Register Association, New York, N. Y. Periodical. 307,181; Dec. 30. Class 38.
Soronow Furniture Manufacturing Co., Ltd., Los Angeles, Calif. Davenports and chairs. 307,182; Dec. 30. Class 32.
Southern Hair Ointment Company. (See Ford, Eva, (Mrs. John W. Ford).)
Southern Pile Fabric Company, Greenville, S. C. Upholstery, velours, velvets, etc. 280,298; Dec. 30. Class 42.
Southwestern Portland Cement Company, Los Angeles, Calif. Cements. 306,222–3; Dec. 30. Class 12.
Spee Dee Products Company, Philadelphia, Pa. Cleansers. 297,500; Dec. 30. Class 4.
Stahl, W. J., doing business as The Phil-Lors' Chemical Co., Georgetown, Ohio. Ointment. 307,020; Dec. 30. Class 6.
Standard Novelty Works, Duncannon, Pa. Coasting sleds. 308,225; Dec. 30. Class 22.
Steril Manufacturing Company, Omaha, Nebr. Grave linings. 305,629; Dec. 30. Class 50.
Sterlick Company, Inc., New York and Brooklyn, N. Y. Catamenial bandages. 304,259–61; Dec. 30. Class 44.
Sterling Chemical Co., Jamaica Plain, Boston, Mass. Flushing compound for automobile radiators and compounds for stopping leaks. 306,620; Dec. 30. Class 6.
Sunsap Laboratories. (See Creger, Matilda.)
Sutter Cooperative Growers, San Francisco, Calif. Canned fruits and canned vegetables. 290,157; Dec. 30. Class 46.
Sykes, Alexander L., doing business as The International Cordage & Yarn Co., New York, N. Y. Rope. 273,329; Dec. 30. Class 7.
Tee Tee Laboratories, San Francisco, Calif. External medicine. 305,250; Dec. 30. Class 6.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Tennessee Products Corporation, Nashville, Tenn. Insulating material. 304,302; Dec. 30. Class 12.
Thompson Barber Supply Co., doing business as Jos. Thompson, Sioux City, Iowa. Hair oil. 307,184; Dec. 30. Class 6.
Tiedemann, Frederick H., Tenafly, N. J. Combs. 307,749; Dec. 30. Class 40.
Toastall Co. (See Northern States Mfg. Co.)
Transformer Corporation of America, Chicago, Ill. Assembled sound amplifiers and loud-speakers, radio receiving sets and parts thereof, and accessories therefor. 305,254; Dec. 30. Class 21.
Tribune Company, The, Chicago, Ill. Series of cartoons. 307,119; Dec. 30. Class 38.
Turco Products, Inc., doing business as Turco, Los Angeles, Calif. Abrasive and detergent cleaning compounds. 306,203; Dec. 30. Class 4.
Turner, Day & Woolworth Handle Company, Louisville, Ky. Handles for axes, hatchets, and similar implements. 307,563–4; Dec. 30. Class 23.
United States Rubber Company, New York, N. Y. Electrical conductors. 307,516; Dec. 30. Class 21.
Vanetta Velvet Co., Inc., New York, N. Y. Pile fabrics in the piece. 295,876; Dec. 30. Class 42.
Veeder-Root Incorporated, Hartford, Conn. Revolution registers or counters. 304,077; Dec. 30. Class 26.
Venus Silk Hosiery Co. Inc., Tacony, Philadelphia, Pa. Hosiery. 304,897; Dec. 30. Class 39.
Vereinigte Papierwerke Aktiengesellschaft, Nuremberg, Germany. Paper pocket handkerchiefs, paper serviettes, paper mats, etc. 296,992; Dec. 30. Class 37.
Virginia Shoe Company, Inc., Fredericksburg, Va. Shoe soles. 306,983; Dec. 30. Class 39.
Von Mayenburg, Heinsius, Kommanditgesellschaft, Dresden, Germany. Pharmaceutical and cosmetic preparations. 304,141; Dec. 30. Class 6.
Watt Manufacturing Company, Sterling, Ill. Air-humidifying machinery. 306,479; Dec. 30. Class 23.
Wellington, Sears & Company, Boston, Mass. Cotton piece goods. 296,994; Dec. 30. Class 42.
Wertheimer & Levy Inc., New York, N. Y. Articles of jewelry. 305,426; Dec. 30. Class 28.
Western Clock Company, Peru, Ill. Clocks and watches. 307,612; Dec. 30. Class 27.
White-Stokes Company, Inc., Chicago, Ill. Cake and cake mixes. 296,789; Dec. 30. Class 46.
Wholesale Stationers' Association of the U. S. A., New York, N. Y. Pen points, eyelets, book and tag holders. 307,644; Dec. 30. Class 37.
Wichita Eagle, The. (See Murdock, Victoria, Estate.)
Wilhelm Bros., Kansas City, Mo. Liquid cleaning composition for glass. 307,517; Dec. 30. Class 4.
Wilkening Manufacturing Company, Philadelphia, Pa. Piston rings and other machinery. 307,750; Dec. 30. Class 35.
Wittnauer, A., Co., New York, N. Y. Watches, watchcases, watch movements, and parts of the same. 306,913; Dec. 30. Class 42.
Woodward & Lothrop, Washington, D. C. Outer clothing. 307,294; Dec. 30. Class 39.
Wouters, Charles J., Oakland, Calif. Cigars and cigarettes. 306,080; Dec. 30. Class 17.
Württembergische Metallwarenfabrik, Geislingen–Steige, Wurttemburg, Germany. Electric lamps, grills, percolators, etc. 297,461; Dec. 30. Class 21.
Young, J. S., Company, The., Baltimore, Md. Logwood extract. 304,677; Dec. 30. Class 6.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Facings for use in casting metals. Kelly Graphite Mills, Inc. 278,901–3; Dec. 30.
Ice. E. M. Holmes. 278,891; Dec. 30.

CLASS 2

Bags, Wardrobe. Al-Lon Manufacturing Company, Inc. 278,809; Dec. 30; Serial No. 305,472; published Oct. 21, 1930.
Case for shipping laundry, Vulcanized fibre. M. Braunstein. 278,738; Dec. 30; Serial No. 304,990; published Oct. 21, 1930.
Containers. Northern Maine Plywood Company. 278,739; Dec. 30; Serial No. 304,570; published Oct. 21, 1930.
Cups made of synthetic plastic material. T. N. Benedict Mfg. Co. 278,743; Dec. 30; Serial No. 304,092; published Oct. 21, 1930.
Vaults, Burial. Royal Vault Manufacturing Co. 278,735; Dec. 30; Serial No. 305,089; published Oct. 21, 1930.

CLASS 6

Antiseptic, healing, invigorating liquid. Hance Brothers & White, Inc. 278,706; Dec. 30; Serial No. 302,822; published Sept. 30, 1930.
Antiseptics, disinfectants, and odorless deodorants. G. R. Powell Chemical Company. 278,775; Dec. 30; Serial No. 304,426; published Oct. 7, 1930.
Astringents, astringent cerates, bleach and beauty creams, etc. Jean Stuart Cosmetics, Inc. 278,771–2; Dec. 30; Serial Nos. 304,617–18; published Oct. 7, 1930.
Bath salts, perfumes, rouges, etc. Robert Enterprises, Inc. 278,854; Dec. 30; Serial No. 284,873; published Sept. 16, 1930.
Castor oil, Sulphonated. Bick and Company. 278,774; Dec. 30; Serial No. 304,484; published Oct. 7, 1930.
Chemical dye aids. H. Th. Böhme A. G. 278,701; Dec. 30; Serial No. 303,624; published Sept. 30, 1930.
Chemical preparation, Cakes, slabs, bars, or bars of a. H. Margolis. 278,712; Dec. 30; Serial No. 297,535; published Sept. 30, 1930.
Chemicals used as antioxidants for rubber. E. I. du Pont de Nemours and Company. 278,783; Dec. 30; Serial No. 303,955; published Oct. 7, 1930.
Chemicals used as antioxidants of rubber. E. I. du Pont de Nemours and Company. 278,781; Dec. 30; Serial No. 303,957; published Oct. 7, 1930.
Chemicals used for preventive of the sun checking of rubber. E. I. du Pont de Nemours and Company. 278,782; Dec. 30; Serial No. 303,956; published Oct. 7, 1930.
Chemicals used in the manufacture of rubber. E. I. du Pont de Nemours and Company. 278,698–9; Dec. 30; Serial Nos. 303,953–4; published Oct. 7, 1930.
Cod-liver oil, Prepared. Physicians Laboratories, Inc. 278,852; Dec. 30; Serial No. 285,790; published Sept. 30, 1930.
Compound used as a boiler-feed-water disincrustant and acid reagent. Milwaukee Lubricants Co. 278,779; Dec. 30; Serial No. 304,207; published Sept. 23, 1930.
Eyewash. S. M. Sager. 278,723; Dec. 30; Serial No. 293,899; published Sept. 16, 1930.
Fertilizers. Central Iron & Coal Company. 278,722; Dec. 30; Serial No. 294,500; published Oct. 21, 1930.
Fluid, Hair-straightening. Marshallene Cosmetic Co. 278,694; Dec. 30; Serial No. 304,730; published Oct. 7, 1930.
Hair restorer. A. A. Hibler. 278,702; Dec. 30; Serial No. 303,288; published Oct. 7, 1930.
Laxative tablets, Chocolate. Tru-Lax Products Company. 278,773; Dec. 30; Serial No. 304,523; published Oct. 7, 1930.
Liquid preparation. J. St. George. 278,776; Dec. 30; Serial No. 304,391; published Sept. 30, 1930.
Medicinal preparations. B. E. Braden. 278,700; Dec. 30; Serial No. 303,944; published Sept. 30, 1930.
Medicine. Alpha Chemical Products Co. 278,873; Dec. 30; Serial No. 299,480; published Sept. 30, 1930.
Medicines and pharmaceutical preparations. Waterbury Chemical Company. 278,721; Dec. 30; Serial No. 294,699; published June 17, 1930.
Perfume. Soc. An. Gius. Visconti di Modrone & C. 278,860; Dec. 30; Serial No. 272,438; published Sept. 30, 1930.
Pharmaceutical preparation. S. Hirsch. 278,855; Dec. 30; Serial No. 283,978; published Sept. 30, 1930.
Pills, having laxative effect. Allcock Manufacturing Co. 278,851; Dec. 30; Serial No. 286,010; published Sept. 30, 1930.
Plasters, Porous. Allcock Manufacturing Co. 278,850; Dec. 30; Serial No. 286,011; published Oct. 7, 1930.
Powder, creams, toilet water, etc., Talcum and face. Ferguson Beauty Shoppe. 278,719; Dec. 30; Serial No. 295,475; published Oct. 7, 1930.
Powder for internal use, Neutralizing, corrective, and laxative. B. E. Price. 278,780; Dec. 30; Serial No. 303,988; published Oct. 7, 1930.
Preparation composed of aromatics, antacids, and digestives. Sanozym, Incorporated. 278,705; Dec. 30; Serial No. 302,834; published Oct. 7, 1930.
Preparation for treating corns, callouses, bunions, etc. J. Waldman. 278,704; Dec. 30; Serial No. 302,844; published Sept. 30, 1930.
Preparation for treating leucorrhea, for eliminating offensive odors, and for cleaning the human organs. R. Bergin. 278,707; Dec. 30; Serial No. 302,176; published Oct. 7, 1930.
Product for demulsifying emulsions of mineral oils. Curo Process Company. 278,703; Dec. 30; Serial No. 302,854; published Sept. 30, 1930.
Sulphur, cold cream, perfume, etc. J. W. Spencer. 278,868; Dec. 30; Serial No. 300,303; published Sept. 16, 1930.
Water-softening material. Arizona Minerals Corporation. 278,708; Dec. 30; Serial No. 301,778; published Sept. 30, 1930.

CLASS 7

Rope, Manilla. Upson-Walton Company. 278,741; Dec. 30; Serial No. 304,439; published Oct. 21, 1930.

CLASS 8

Tobacco pouches and containers. Burtis Company. 278,849; Dec. 30; Serial No. 286,866; published Oct. 21, 1930.

CLASS 9

Matches. F. E. Kreuger. 78,886–7; renewed July 19, 1930.
Matches. F. E. Kreuger. 79,428; renewed Sept. 6, 1930.
Matches. F. E. Kreuger. 79,498–500; renewed Sept. 13, 1930.
Matches. F. E. Kreuger. 79,588; renewed Sept. 20, 1930.
Matches. F. E. Kreuger. 79,764; renewed Oct. 4, 1930.
Matches. F. E. Kreuger. 79,985–6; renewed Oct. 25, 1930.
Matches. F. E. Kreuger. 80,130; renewed Nov. 8, 1930.
Matches. F. E. Kreuger. 80,364; renewed Dec. 13, 1930.

CLASS 10

Fertilizers. Old Leaf Mold Humus Corporation. 278,767; Dec. 30; Serial No. 303,574; published Oct. 14, 1930.
Fertilizers. Southern Fertilizer & Chemical Company. 278,821; Dec. 30; Serial No. 303,014; published Oct. 21, 1930.
Fertilizers, castor pomace, calcium nitrate, etc., Mixed. Davison Chemical Co. 278,757; Dec. 30; Serial No. 303,951; published Oct. 14, 1930.
Manure and peat moss, Cow. Atkins & Durbrow, Inc. 278,756; Dec. 30; Serial No. 303,987; published Oct. 14, 1930.

CLASS 11

Carbon paper, printing inks, and typewriter ribbons. I. A. Losey. 278,716; Dec. 30; Serial No. 295,979; published Oct. 14, 1930.
Ink, Writing. Independent Druggists' Alliance Distributing Co. 278,760; Dec. 30; Serial No. 303,895; published Oct. 14, 1930.
Ink, Writing. L. E. Waterman Company. 278,763–5; Dec. 30; Serial Nos. 303,668–70; published Oct. 14, 1930.
Inks, Stencil. D. Gestetner, Limited. 278,894; Dec. 30.

CLASS 12

Moldings, Drip and roof. Allied Metal Products Corporation. 278,890; Dec. 30.
Plaster, Wall. Plastic Stone Products Corp. 278,886; Dec. 30.
Plaster, Wall. Plastic Stone Products Corp. 278,904; Dec. 30.
Plastic refractory material. E. J. Lavino and Company. 278,819; Dec. 30; Serial No. 304,563; published Oct. 7, 1930.
Stone, Dimension. D. Collins. 278,879; Dec. 30.
Tiles, Wall. Standard Wall Covering Company. 278,753; Dec. 30; Serial No. 303,403; published Oct. 7, 1930.

CLASS 13

Doorplates. Consolidated Factories, Ltd. 278,718; Dec. 30; Serial No. 295,836; published Oct. 14, 1930.
Fencing, Wire. Hudson Wire and Iron Company. 278,740; Dec. 30; Serial No. 304,463; published Oct. 14, 1930.
Metal pipe and tubing. Youngstown Sheet & Tube Company. 278,736; Dec. 30; Serial No. 305,022; published Oct. 14, 1930.
Piping, couplings, and nipples, Steam and water. Air-Way Electric Appliance Corporation. 278,732; Dec. 30; Serial No. 305,470; published Oct. 21, 1930.
Plumbing fixtures. Crane Co. 278,888; Dec. 30.
Valve stems, dust and valve caps, rim nuts, etc., Pneumatic. Dill Manufacturing Company. 278,737; Dec. 30; Serial No. 304,541; published Oct. 14, 1930.
Valves. B. F. Perkins & Son, Inc. 278,864; Dec. 30; Serial No. 300,806; published Oct. 14, 1930.

CLASS 14

Castings, Steel and malleable-iron. Jewell Steel & Malleable Co. 278,713; Dec. 30; Serial No. 296,649; published Oct. 14, 1930.
Metals and alloys. Fansteel Products Company. 278,762; Dec. 30; Serial No. 303,764; published Oct. 14, 1930.
Steels. Crucible Electric Steel Company. 278,846; Dec. 30; Serial No. 283,309; published Oct. 14, 1930.

CLASS 17

Cigars, cigarettes, smoking tobacco. Independent Druggists' Alliance Distributing Co. 278,759; Dec. 30; Serial No. 303,896; published Oct. 14, 1930.
Tobacco, Chewing. American Tobacco Company. 278,807; Dec. 30; Serial No. 301,548; published Oct. 14, 1930.

CLASS 19

Boats, cruisers, etc., Motor and speed. Horace E. Dodge Boat & Plane Corporation. 278,745; Dec. 30; Serial No. 303,023; published Oct. 14, 1930.
Trucks, Dump. Winsor Company. 278,742; Dec. 30; Serial No. 304,227; published Oct. 21, 1930.
Bicycles. Anker-Werke A. G. 278,733; Dec. 30; Serial No. 305,129; published Oct. 14, 1930.
Flying machines. Consolidated Aircraft Corporation. 278,734; Dec. 30; Serial No. 305,099; published Oct. 14, 1930.

CLASS 23

Axes, hatchets, machetes, etc. Collins Company. 278,816; Dec. 30; Serial No. 304,752; published Oct. 14, 1930.
Compressors, Air. Bury Compressor Co. 278,856; Dec. 30; Serial No. 283,173; published Oct. 14, 1930.
Cutters, Weed and grass. J. F. Hannah. 278,869; Dec. 30; Serial No. 300,191; published Oct. 14, 1930.
Labeling machines. Liquid Carbonic Corporation. 278,813; Dec. 30; Serial No. 305,313; published Oct. 21, 1930.
Lathes and automatic metal-turning machines and machines for grinding surfaces. Seneca Falls Machine Company. 278,752; Dec. 30; Serial No. 304,217; published Oct. 14, 1930.
Razors and shears. E. Morris Mfg. Co. 278,885; Dec. 30.
Shafts and worm gears, Drive, pinion and worm. Lempco Products, Inc. 278,728; Dec. 30; Serial No. 291,342; published Oct. 14, 1930.
Spray guns. Sinclair Refining Company. 278,875; Dec. 30; Serial No. 299,466; published June 10, 1930.
Tables, auto pits, auto washers, etc., Assembly. Manley Manufacturing Company. 278,895; Dec. 30.
Tools, clay spades, asphaltcutters, etc., Wrecking. Greenlee Bros. & Co. 278,817; Dec. 30; Serial No. 304,721; published Oct. 14, 1930.
Tools or utensils, Kitchen and household. R. Wallace & Sons Manufacturing Company. 278,818; Dec. 30; Serial No. 304,645; published Oct. 14, 1930.
Winches, variable speed drives, pipe benders, etc. Allsteel Products Manufacturing Company. 278,754; Dec. 30; Serial No. 303,242; published Oct. 14, 1930.

CLASS 24

Washing machines, Electric. Hirschy Company. 278,715; Dec. 30; Serial No. 296,058; published Oct. 14, 1930.

CLASS 26

Apparatus and instruments for underground surveys of borings and parts of such. A. Anderson. 278,815; Dec. 30; Serial No. 304,853; published Oct. 14, 1930.
Pumps, Self-measuring gasoline. C. E. Marion. 278,820; Dec. 30; Serial No. 304,377; published Oct. 14, 1930.
Testing instruments. Motor X-Ray Co., Inc. 278,858; Dec. 30; Serial No. 278,845; published Oct. 14, 1930.

CLASS 27

Clocks. W. L. Gilbert Clock Company. 278,731; Dec. 30; Serial No. 289,892; published Oct. 14, 1930.
Clocks. New Haven Clock Company. 278,884; Dec. 30.
Time-indicating device. A. E. Freel. 278,761; Dec. 30; Serial No. 303,766; published Oct. 14, 1930.

CLASS 29

Brushes and tooth brushes, Hand scrubbing. Independent Druggists' Alliance Distributing Co. 278,758; Dec. 30; Serial No. 303,898; published Oct. 14, 1930.
Brushes, dish mops, hairbrushes, etc., Glassware. Albert Pick-Barth Company, Inc. 278,859; Dec. 30; Serial No. 300,967; published Oct. 14, 1930.
Brushes, Hair, etc. The Wilcox Novelty Company. 278,874; Dec. 30; Serial No. 299,478; published Oct. 14, 1930.
Brushes, Tooth. Société Anonyme Dentclair. 278,871; Dec. 30; Serial No. 299,933; published Oct. 14, 1930.
Mittens, Dusting. J. V. Harpham. 278,808; Dec. 30; Serial No. 301,170; published Oct. 14, 1930.
Sweepers, Carpet. Bloomingdale Bros., Inc. 278,766; Dec. 30; Serial No. 303,595; published Oct. 14, 1930.

CLASS 31

Filters, parts therefor, and water filtering masses. Aktiebolaget Elektrolux. 278,853; Dec. 30; Serial No. 285,434; published Oct. 14, 1930.
Refrigerators and refrigerating dispensers, Electrical. Tavernette Corporation. 278,862–3; Dec. 30; Serial Nos. 300,829–30; published Oct. 14, 1930.

CLASS 32

Costumers. Utilatree Products Inc. 278,812; Dec. 30; Serial No. 305,549; published Oct. 21, 1930.

CLASS 34

Burners, Coal. Motorstoker Corporation. 278,889; Dec. 30.
Burners, Underfeed-stoker coal. W. F. Miller. 278,744; Dec. 30; Serial No. 303,723; Oct. 14.
Stokers, Underfeed. Marion Machine, Foundry & Supply Co. 278,746; Dec. 30; Serial No. 302,735; published Oct. 14, 1930.
Stoves and ranges. Eureka Steel Range Company. 278,747–8; Dec. 30; Serial No. 302,377–8; Oct. 21, 1930.

CLASS 35

Brake lining. Raybestos-Manhattan, Incorporated. 278,811; Dec. 30; Serial No. 305,587; published Oct. 21, 1930.

Gaskets. Victor Manufacturing & Gasket Company, 278,814; Dec. 30; Serial No. 305,459; published Oct. 21, 1930.
Hose, Fire. Fenwick Reddaway Mfg. Co. 278,867; Dec. 30; Serial No. 300,343; published Oct. 14, 1930.
Tires, tire shoes and inner tubes therefor, outside tire protectors, etc. Goodyear Tire & Rubber Company. 278,729; Dec. 30; Serial No. 291,215; published Oct. 14, 1930.

CLASS 37

Calendars, Radio program memo. J. P. Kennedy. 278,799; Dec. 30; Serial No. 303,188; published Oct. 21, 1930.
Cards and guides, filing folders, paper clips, etc., Index. Oxford Filing Supply Co. 278,892–3; Dec. 30.
Cards, Contract. M. I. Zofness. 278,797; Dec. 30; Serial No. 303,730; published Oct. 14, 1930.
Envelopes, and printing, cover, and envelope paper, Correspondence. Port Huron Sulphite & Paper Company. 278,796; Dec. 30; Serial No. 303,860; published Oct. 21, 1930.
Paper. American Writing Paper Company. 278,882; Dec. 30.
Paper. Nekoosa-Edwards Paper Company. 278,724; Dec. 30; Serial No. 292,819; published Oct. 14, 1930.
Paper and envelopes, Combination note. W. Harriman. 278,857; Dec. 30; Serial No. 283,040; published Oct. 21, 1930.
Paper and envelopes, Writing. Montag Bros. Inc. 278,842; Dec. 30; Serial No. 304,966; published Oct. 14, 1930.
Paper, bristol board, rope jute, etc., Wrapping. Riegel Paper Corporation. 278,802; Dec. 30; Serial No. 302,334; published Oct. 14, 1930.
Paper labels. Smith & Porter Press, Incorporated. 278,887; Dec. 30.
Paper, paper towels, and napkins, Toilet. Hoberg Paper & Fibre Company. 278,791; Dec. 30; Serial No. 304,660; published Oct. 21, 1930.
Papers, Mimeograph and ledger. Munising Paper Company. 278,905; Dec. 30.
Pencils and crayons. A. W. Faber, Inc. 278,878; Dec. 30; Serial No. 297,898; published Oct. 21, 1930.
Pens and mechanical pencils and parts thereof, Fountain. L. E. Waterman Company. 278,840; Dec. 30; Serial No. 305,127; published Oct. 14, 1930.
Pens and parts thereof, Fountain. Sager Pen Company. 278,865; Dec. 30; Serial No. 300,803; published Oct. 14, 1930.
Pens and pencils. Eclipse Fountain & Pencil Co. Inc. 278,730; Dec. 30; Serial No. 290,118; published Oct. 14, 1930.
Tacks, Thumb. G. Raffenbeul. 278,896; Dec. 30.
Tar and binders' boards. Davey Company. 278,803–6; Dec. 30; Serial Nos. 301,589–92; published Oct. 14, 1930.

CLASS 38

Album, Photo and autograph. Master Photo Finishers of America. 278,876; Dec. 30; Serial No. 299,208; published Oct. 21, 1930.
Books, Completely-printed. Alfred A. Knopf, Inc. 278,798; Dec. 30; Serial No. 303,719; published Oct. 21, 1930.
Decalcomanias. Meyercord Company. 278,792; Dec. 30; Serial No. 304,204; published Oct. 21, 1930.
House organ. Fox West Coast Theatres. 278,843; Dec. 30; Serial No. 304,764; published Oct. 14, 1930.
Newspaper articles. M. D. Reardon. 278,866; Dec. 30; Serial No. 300,437; published Oct. 21, 1930.
Periodicals. Frigidaire Corporation. 278,838; Dec. 30; Serial No. 305,524; published Oct. 21, 1930.
Photographic prints. S. U. Bunnell. 278,793; Dec. 30; Serial No. 304,184; published Oct. 21, 1930.
Publication. Marketform Company. 278,800; Dec. 30; Serial No. 303,003; published Oct. 21, 1930.
Publication. C. H. McCarthy. 278,861; Dec. 30; Serial No. 300,951; published Oct. 21, 1930.
Publication. C. R. White. 278,801; Dec. 30; Serial No. 302,520; published Oct. 21, 1930.
Publication, Periodical. Harvey Conover & Company. 278,837; Dec. 30; Serial No. 305,746; published Oct. 21, 1930.
Publication, Trade. American Dental Trade Association. 278,844; Dec. 30; Serial No. 304,748; published Oct. 21, 1930.
Publication, Trade-paper. J. G. Brown. 278,794; Dec. 30; Serial No. 304,087; published Oct. 21, 1930.
Sheets and charts, Instruction. T. A. Peck. 278,795; Dec. 30; Serial No. 303,933; published Oct. 21, 1930.

CLASS 39

Caps, Women's and girls'. Camp Fire Girls, Inc. 278,787; Dec. 30; Serial No. 303,092; published Oct. 14, 1930.
Dresses, suits, skirts, slips, etc. C. C. Hollidge. 278,777–8; Dec. 30; Serial Nos. 304,326–7; published Oct. 14, 1930.
Gloves, Canvas work. Indianapolis Glove Company. 278,720; Dec. 30; Serial No. 294,727; published Oct. 14, 1930.
Hats. Coari Hat, Inc. 278,769; Dec. 30; Serial No. 301,582; published Oct. 14, 1930.
Hosiery. Merit Hosiery Company. 278,788; Dec. 30; Serial No. 302,787; published Oct. 7, 1930.
Hosiery and underwear. Phoenix Hosiery Company. 278,870; Dec. 30; Serial No. 300,082; published Sept. 30, 1930.
Jackets, undershirts, drawers, etc. Trikotfabriken J. Schiesser A. G. 278,785; Dec. 30; Serial No. 303,729; published Oct. 7, 1930.
Uniform, caps, and aprons for misses. Henry A. Dix & Sons Corporation. 278,786; Dec. 30; Serial No. 303,597; published Oct. 14, 1930.

CLASS 40

Combs. Independent Druggists' Alliance Distributing Co. 278,784; Dec. 30; Serial No. 303,902; published Oct. 14, 1930.
Combs. Rheinische Gummi-und Celluloid-Fabrik. 278,872; Dec. 30; Serial No. 299,730; published Oct. 14, 1930.
Needles, pins, bodkins, and crochet hooks. William Hall & Company, Limited. 34,926; renewed July 24, 1930.

CLASS 42

Cotton piece goods. Edwin E. Berliner & Co. 278,881; Dec. 30.
Handkerchiefs. L. K. Lipson. 278,751; Dec. 30; Serial No. 304,289; published Sept. 30, 1930.

CLASS 45

Beverages, Maltless. Bessemer Bottling Company. 278,697; Dec. 30. Serial No. 304,309; published Oct. 14, 1930.
Concentrates of all flavors, Maltless. Florasynth Laboratories Inc. 278,693; Dec. 30; Serial No. 304,805; published Oct. 14, 1930.
Fruit juices and extracts. Polak & Schwarz. 278,749; Dec. 30; Serial No. 301,505; published Oct. 14, 1930.
Ginger ale and maltless syrups. T. E. Oflesh. 278,692; Dec. 30; Serial No. 304,970; published Oct. 21, 1930.
Juices and extracts, Fruit. Polak & Schwarz. 278,750; Dec. 30; Serial No. 301,503; published Oct. 14, 1930.

CLASS 46

Bread. J. Ottenberg. 278,897–8; Dec. 30.
Candy. Jacobs Candy Co. Ltd. 278,900; Dec. 30.
Candy. Moirs, Limited. 278,848; Dec. 30; Serial No. 288,082; published Oct. 21, 1930.
Candy bars. Stadler & Hennick. 278,824; Dec. 30; Serial No. 304,975; published Oct. 21, 1930.
Candy confections. Oxford Confectionery Company. 278,865; Dec. 30; Serial No. 300,803; published Oct. 21, 1930.
Canned and frozen fruits, Fresh. R. D. Bodle Co. 278,730; Dec. 30; Serial No. 290,113; published Oct. 21, 1930.
Canned fish. J. Jawitz. 278,833; Dec. 30; Serial No. 304,083; published Oct. 14, 1930.
Canned grapefruit and citrus juices. Harman & Hulsey, Inc. 278,823; Dec. 30; Serial No. 305,078; published Oct. 21, 1930.
Canned lima beans. California Lima Bean Growers Association. 278,789; Dec. 30; Serial No. 301,827; published Oct. 14, 1930.
Canned peas. Stokely Brothers & Company. 278,836; Dec. 30; Serial No. 301,723; published Oct. 21, 1930.
Canned salmon. I. Rokeach & Sons, Inc. 278,725–6; Dec. 30; Serial Nos. 299,180–1; published Oct. 21, 1930.
Canned vegetables. Southern Potato Products Co. 278,717; Dec. 30; Serial No. 295,961; published Oct. 14, 1930.
Cocoa powder, chocolates, pralines, etc. Gebrüder Hillers. 278,883; Dec. 30.
Coffee. Hoffmann-Hayman Coffee Company. 278,832; Dec. 30; Serial No. 304,143; published Oct. 21, 1930.
Coffee. H. W. Reid. 278,710; Dec. 30; Serial No. 305,493; published Oct. 21, 1930.
Coffee. F. C. Russell. 278,845; Dec. 30; Serial No. 304,672; published Oct. 14, 1930.
Coffee. Standard Brands Incorporated. 278,711; Dec. 30; Serial No. 305,326; published Oct. 14, 1930.
Coffee. Tuscaloosa Coffee Company. 278,790; Dec. 30; Serial No. 305,548; published Oct. 21, 1930.
Confectionery. Chicago Candy Novelties Corp. 278,828; Dec. 30; Serial No. 304,602; published Oct. 14, 1930.
Flour, Dusting. Griffith Laboratories, Inc. 278,880; Dec. 30.
Fruit preserves, jams, jellies, etc. Orchard Products Company. 278,822; Dec. 30; Serial No. 305,239; published Oct. 21, 1930.
Fruits, Fresh citrus. Fugazzi-Pinellas Grove Co. 278,709; Dec. 30; Serial No. 305,565; published Oct. 21, 1930.
Fruits, Fresh citrus. L. Maxcy, Inc. 278,770; Dec. 30; Serial No. 301,276; published Oct. 14, 1930.
Gum, Chewing. American Chicle Company. 278,810; Dec. 30; Serial No. 304,708; published Oct. 14, 1930.
Gum, Chewing. Frank H. Fleer Corporation. 278,825; Dec. 30; Serial No. 304,763; published Oct. 21, 1930.
Hams, bacon, and fish. Albert Richards Co. 278,829; Dec. 30; Serial No. 304,580; published Oct. 14, 1930.
Hams, bacon, sliced bacon, etc. Kingan & Co. Incorporated. 278,755; Dec. 30.
Lunches, Box. A. Gruener. 278,899; Dec. 30.
Meats, Frozen. John Morrell & Co. 278,827; Dec. 30; Serial No. 304,625; published Oct. 14, 1930.

Potatoes. Geo. A. Hall Co. 278,714; Dec. 30; Serial No. 30; Serial No. 304,639; published Oct. 14, 1930.
Preserves, Fruit. The J. M. Smucker Co. 278,826; Dec. 30; Serial No. 304,639; published Oct. 14, 1930.
Scrapple. F. G. Vogt & Sons, Incorporated. 278,834–5; Dec. 30; Serial Nos. 303,280–1; published Oct. 14, 1930.
Shortening made of vegetable oil. Swift and Company. 278,830; Dec. 30; Serial No. 304,301; published Oct. 21, 1930.
Shortening, Pure vegetable. Glidden Company. 278,831; Dec. 30; Serial No. 304,282; published Oct. 14, 1930.

CLASS 48

Beverage, Cereal. Pabst Corporation. 278,696; Dec. 30; Serial No. 304,341; published Oct. 14, 1930.
Beverage, Malt. C. Schmidt and Sons, Incorporated. 278,695; Dec. 30; Serial No. 304,698; published Oct. 14, 1930.
Beverages. A. J. Canfield Co. 278,877; Dec. 30; Serial No. 298,931; published Oct. 21, 1930.

CLASS 49

Rum, gin, whiskey, etc. John Haig & Co. 278,847; Dec. 30; Serial No. 288,911; published Oct. 21, 1930.

CLASS 50

Covers, Stack. E. Abramson. 278,768; Dec. 30; Serial No. 303,145; published Oct. 14, 1930.
Emca patent pass-out checks. Music Corporation of America. 278,727; Dec. 30; Serial No. 291,521; published Oct. 14, 1930.

ALPHABETICAL LIST OF LABELS

A Master Floor by Master Craftsmen. For Composition Floor Coverings. New Jersey Bonded Floor Co. 38,454; Dec. 30.
A to Z. For Brooms and Mops. Stametco Broom & Mfg. Co. Inc. 38,465; Dec. 30.
American Lending Library. For Bookcases, Book Racks, Book Shelves, and Books. American Lending Library, Inc. 38,411; Dec. 30.
Big Kernel. For Canary-Bird Seed. F. W. Kaempfer. 38,449; Dec. 30.
Blue Bonnet. For Sandwich Spread. Texas Margarine Company. 38,467; Dec. 30.
Blue Bonnet. For Salad Dressing. Texas Margarine Company. 38,468; Dec. 30.
Blue Diamond. For Olives. Packing & Marketing, Inc. 38,459; Dec. 30.
Calvert. For Canned Salmon. Calvert Company. 38,416; Dec. 30.
Castilian Club Pale Dry Ginger Ale. For Ginger Ale. Arrowhead Springs Beverage Company. 38,413; Dec. 30.
Cirillo. For Macaroni. The Italian Importing Co. of New York. 38,448; Dec. 30.
Cloz Eltona Clenz. For Cleaning Fluid. A. Sockloff. 38,463; Dec. 30.
Creamery Butter. For Creamery Butter. Container Corporation of America. 38,418; Dec. 30.
Diamond Ink. For Ink. Diamond Ink Company. 38,420; Dec. 30.
Dugan's Almond Filled Ring. For Almond-Filled Ring. Dugan Brothers, Inc. 38,442; Dec. 30.
Dugan's Butter Cake. For Butter Cake. Dugan Brothers, Inc. 38,434; Dec. 30.
Dugan's Cheese Cake. For Cheese Cake. Dugan Brothers, Inc. 38,437; Dec. 30.
Dugan's Coffee Ring. For Coffee Rings. Dugan Brothers, Inc. 38,435; Dec. 30.
Dugan's Corn Muffins. For Corn Muffins. Dugan Brothers, Inc. 38,424; Dec. 30.
Dugan's Crumb Buns. For Crumb Buns. Dugan Brothers, Inc. 38,423; Dec. 30.
Dugan's Crumb Cake. For Crumb Cake. Dugan Brothers, Inc. 38,426; Dec. 30.
Dugan's Delicious Doughnuts. For Doughnuts. Dugan Brothers, Inc. 38,427; Dec. 30.
Dugan's Home Made Fresh Fruit Pie. For Fruit Pie. Dugan Brothers, Inc. 38,425; Dec. 30.
Dugan's Home Made Layer Cake. For Layer Cake. Dugan Brothers, Inc. 38,440; Dec. 30.
Dugan's Home Made Meringue Pie. For Meringue Pie. Dugan Brothers, Inc. 38,430; Dec. 30.
Dugan's Jelly Roll. For Jelly Roll. Dugan Brothers, Inc. 38,433; Dec. 30.
Dugan's Lady Fingers. For Lady Fingers. Dugan Brothers, Inc. 38,439; Dec. 30.
Dugan's Lunch Cakes. For Lunch Cake. Dugan Brothers, Inc. 38,428; Dec. 30.
Dugan's Parker House Rolls. For Parker House Rolls. Dugan Brothers, Inc. 38,438; Dec. 30.
Dugan's Special Holiday Pie. For Pie. Dugan Brothers, Inc. 38,432; Dec. 30.
Dugan's Special Nut Cake. For Nut Cake. Dugan Brothers, Inc. 38,441; Dec. 30.
Dugan's Spice Cakes. For Spice Cake. Dugan Brothers, Inc. 38,422; Dec. 30.
Dugan's Stollen. For Stollen. Dugan Brothers, Inc. 38,431; Dec. 30.
Dugan's Sugar Buns. For Sugar Buns. Dugan Brothers, Inc. 38,443; Dec. 30.
Dugan's Vienna Crumb Cake. For Crumb Cake. Dugan Brothers, Inc. 38,429; Dec. 30.
Dugan's Village Biscuits. For Village Biscuits. Dugan Brothers, Inc. 38,436; Dec. 30.
E-Z Rust Remover. For Liquid, the Purpose of Which is to Remove Rust. L. I. Wasserman. 38,473; Dec. 30.
Ever-Crisp. For Sweet Pickles. Northern Pines Pickling Co. 38,457; Dec. 30.
Fifth Ave. For Boxes. Hoague-Sprague Corporation. 38,445; Dec. 30.
Fruit Nectar. For Beverage Syrup. S. A. Tucker. 38,469; Dec. 30.
Golden-Cream. For Mayonnaise. Northern Pines Pickling Co. 38,456; Dec. 30.
Hostess Twinkles. For Cake. Continental Baking Company. 38,419; Dec. 30.
Icy-Fruit-Roll. For Frozen Confections. Icy Fruit Roll Company. 38,447; Dec. 30.
Jo-An. For Orange Marmalade. Mashburn & Tholborn. 38,452; Dec. 30.
Lime Rickey Gum. For Chewing Gum. Pacific Gum Company. 38,458; Dec. 30.
MC. 63 Calguinate. For Medicinal Preparation. Drug Products Co. Inc. 38,421; Dec. 30.
Miami High Early Strength. For Cement. Southwestern Portland Cement Company. 38,464; Dec. 30.
Morrell's Pride Hasty Ham. For Ham. John Morrell & Co. 38,453; Dec. 30.
Oceankist. For Canned Salmon. Calvert Company. 38,417; Dec. 30.
Old Monterey Pale Dry Ginger Ale. For Ginger Ale. Arrowhead Springs Beverage Company. 38,412; Dec. 30.
Pan-O-Rye. For Bread. Ward Baking Company. 38,472; Dec. 30.
Pyramid Salted Nuts. For Salted Nuts. New York Nut Shelling Co. 38,455; Dec. 30.
Ring-Rout. For Medicament for the Treatment of a Skin Affection. Ring-Rout, Inc. 38,461; Dec. 30.
Royal Garden. For Tea. Blodgett-Beckley Company. 38,414; Dec. 30.
Rubber Enamel. For Rubber Enamel. Steelcote Manufacturing Company. 38,466; Dec. 30.
Sani-Flush. For Powdered Compound for Cleaning Water-Closet Bowls and Automobile Radiators. Hygienic Products Company. 38,446; Dec. 30.
San-X. For Bathroom Paper. Pratt Paper Company. 38,460; Dec. 30.
S'Mild. For Cigars. J. Kerns, Inc. 38,451; Dec. 30.
Tincture Digitalis (Upsher Smith). For Tincture Digitalis. F. A. U. Smith. 38,471; Dec. 30.
Top O'The Morning. For Pork Sausages. Adolf Gobel, Inc. 38,444; Dec. 30.
Union Pacific Gasoline. For Gasoline. Union Pacific Oil Company. 38,470; Dec. 30.
Variety. For Bird Seed. F. W. Kaempfer. 38,450; Dec. 30.
White Rose Old Hickory Ham. For Cooked Hams. Seeman Brothers, Inc. 38,462; Dec. 30.
Will-Kill. For Rodent Exterminator. A. T. Bradford. 38,415; Dec. 30.

ALPHABETICAL LIST OF PRINTS

Aphrodite. For Shoes. N. Elkin. 12,926; Dec. 30.
Athletes Foot. For "Rab" Foot Crack and Itching Treatment. J. C. Crowe. 12,925; Dec. 30.
Glistening White Teeth. For Dental Cream. Kolynos Company. 12,936; Dec. 30.
Golden Pippins Finely Shred . . . The Undercut of the Sirloin . . . Spices and Fruit. For Mincemeat. H. J. Heinz Company. 12,934; Dec. 30.
Insure Your Limbs and Life. For Heel Retainers and Heel Braces. Surety Manufacturing Company. 12,940; Dec. 30.
Le Dernier Cri! For Jewelry. Greenleaf & Crosby Company, Inc. 12,928; Dec. 30.
Make a Plan for Beauty. For Lille Lotion, Protecta Cream, No-Shine, Illusion Powder, Amoretta Cream. Elizabeth Arden Inc. 12,921; Dec. 30.

Pour La Soirée. For Jewelry. Greenleaf & Crosby Company Inc. 12,933; Dec. 30.
Pour Le Bal. For Jewelry. Greenleaf & Crosby Company Inc. 12,930; Dec. 30.
Pour Le Sport. For Jewelry. Greenleaf & Crosby Company Inc. 12,927; Dec. 30.
Pour Le The. For Jewelry. Greenleaf & Crosby Company, Inc. 12,929; Dec. 30.
Pour Les Mains Elegantes. For Jewelry. Greenleaf & Crosby Company Inc. 12,931; Dec. 30.
Pour L'Opera. For Jewelry. Greenleaf & Crosby Company Inc. 12,932; Dec. 30.
Sheer Removes Superfluous Hair. For a Depilatory. Sheer Pharmacal Corporation. 12,939; Dec. 30.
Sound Teeth—Radiant Health. For Dental Cream. Kolynos Company. 12,937; Dec. 30.
Take a Steve Brodie. For Peanut Chew Candy. S. Block. 12,924; Dec. 30.
Teeth Clean and Sparkling White. For Dental Cream. Kolynos Company. 12,938; Dec. 30.
Teeth Three Shades Whiter. For Dental Cream. Kolynos Company. 12,935; Dec. 30.
The Biggest Little Saw in the World. For Jig Saws. Beebe Bros. 12,923; Dec. 30.
The Soul is Never Empty of the Loveliness It Gives. For Beauty Boxes, Perfumes, Compacts, Poudre d'Illusion Bath Salts, Soaps. Elizabeth Arden Inc. 12,920; Dec. 30.
Union Pacific Motor Oil. For Oil. Union Pacific Oil Company. 12,941; Dec. 30.
With Hats off the Face. For Spot Pruf Cream, Spotpruf Lotion, Anti-Brown-Spot Ointment, Muscle oil, Pore Cream, Antiwrinkle Cream, Poudre d'Illusion, Illusion Talcum. Elizabeth Arden, Inc. 12,922; Dec. 30.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 30TH DAY OF DECEMBER, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Aanonson, Henry, Eland Junction, Wis. Vehicle. 1,787,029; Dec. 30.
Abbe, George C., Kennett Square, assignor to American Road Machinery Company, Inc., Kennett Square, Pa. Snowplow. 1,786,974; Dec. 30.
Abel, August, Leipzig, Germany. Light-advertising device. 1,787,333; Dec. 30.
Abel, August, Leipzig, Germany. Device for the production of apparently-moving display matter. 1,787,334; Dec. 30.
Abendroth Brothers. (See Seeley, Frank E., assignor.)
Absmeier, Carl, Maywood, assignor to United States Gypsum Company, Chicago, Ill. Board-cutting machine. 1,786,726; Dec. 30.
Acoustic Products Company. (See Dunning, Orville M., assignor.)
Acoustic Products Company. (See Hutchison, Miller R., assignor.)
Adam, Frederick B., St. Louis, Mo. Electric switch. 1,786,727; Dec. 30.
Addicks, Albert, Boitwarden, near Brake, Germany. Safety device for vehicles, particularly power-driven vehicles. 1,786,690; Dec. 30.
Adlake Company, The. (See Larson, Carl H., assignor.)
Adley, Lloyd C. (See Crew, Charles R., assignor.)
Advance Machine Company. (See Antoine, Alfred D., assignor.)
Air Reduction Company. (See Grow, Harold J., assignor.)
Akron Standard Mold Company, The. (See Humphrey, Walter E., assignor.)
Aktiengesellschaft Mix and Genest. (See Lohaus, Otto, assignor.)
Alemite Corporation. (See Moore, George L., assignor.)
Alemite Corporation. (See Pierce, E. F., and Sweet, assignors.)
Alexander, Walter, White Plains, N. Y. Adhesive compound and making same. 1,786,417; Dec. 30.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Control system. 1,787,299; Dec. 30.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Electric discharge device. 1,787,300; Dec. 30.
Allan, James R., Oak Park, Ill. Material-handling apparatus. 1,786,884; Dec. 30.
Allmanna Svenska Elektriska Aktiebolaget. (See Ytterberg, A., and Herlitz, assignors.)
Althausen, Robert, Ranger, Tex., assignor to The Eureka Tool Company, Augusta, Kans. Casing ripper. 1,786,590; Dec. 30.
Altheimer, Ben, assignor to M. Altheimer, University City, Mo. Radiator shield. 1,787,184; Dec. 30.
Altheimer, Myrtle. (See Altheimer, Ben, assignor.)
Alvord, Clinton, assignor to Worcester Loom Works, Worcester, Mass. Tuft-frame-threading device. 1,786,813; Dec. 30.
American Blower Corporation. (See Anderson, Edward L., assignor.)
American Cyanamid Company. (See Thomas, George G., assignor.)
American Enameled Brick & Tile Company. (See Sutphen, Robert M., assignor.)
American Engineering Company. (See Mellon, James A., assignor.)
American Gassaccumulator Company. (See Oestnaes, Victor L., assignor.)
American Gypsum Company. (See New, Gustave A., assignor.)
American Machine & Foundry Company. (See Chandler, Robert J. A., assignor.)
American Machine & Foundry Company. (See Kehling, Charles, assignor.)
American Nuplex Corporation. (See Homberg, Felix, assignor.)
American Optical Company. (See Schumacher, Elmer L., assignor.)
American Potash & Chemical Corporation. (See Burke, William E., assignor.)
American Road Machinery Company. (See Abbe, George C., assignor.)
American Rolling Mill Company, The. (See Byrum, J. R., Russell, and Meeks, assignors.)
American Rolling Mill Company, The. (See Eppelsheimer, Daniel, assignor.)
American Rolling Mill Company, The. (See Spaulding, Arch W., assignor.)
American Rolling Mill Company, The. (See Tytus, John B., assignor.)
American Telephone and Telegraph Company. (See Freeman, Albert E., assignor.)
American Telephone and Telegraph Company. (See Nyquist, Harry, assignor.)
American Telephone and Telegraph Company. (See Reed, T. C., and Odell, assignors.)
American Voith Contact Company. (See Thaler, Wilhelm, assignor.)
Anderson, Daniel G. (See Krick, G. W., and Anderson.)
Anderson, Edward L., Grosse Ile, assignor to American Blower Corporation, Detroit, Mich. Blower. 1,787,062; Dec. 30.
Anderson, H Miller, Chicago, Ill., assignor, by mesne assignments, to The Lake Erie Chemical Company, Cleveland, Ohio. Vault release. 1,786,975; Dec. 30.
Anderson, H Miller, Chicago, Ill., assignor, by mesne assignments, to The Lake Erie Chemical Company, Cleveland, Ohio. Gas-discharging device for safes. 1,786,976; Dec. 30.
Anderson, Lawrence, Fullerton, Nebr. Bill holder and protector. 1,787,335; Dec. 30.
Anderson, William M., assignor of one-half to Arch Hasterman, Brownville, Nebr. Lister attachment for tractors. 1,786,591; Dec. 30.
Andrews, Champe S., North Chattanooga, Tenn., assignor to Box Blank Corporation, New York, N. Y. One-piece box. 1,787,030; Dec. 30.
Anostchenko, Nikolai D., Moscow, Union of Socialist Soviet Republics. Motion-picture apparatus. 1,786,977; Dec. 30.
Antoine, Alfred D., assignor to Advance Machine Company, Chicago, Ill. Check-controlled mechanism. 1,787,099; Dec. 30.
Arbuckle, Samuel F., Highland Park, Mich., assignor to Monogram Lens Corporation, New York, N. Y. Lamp-focusing mechanism. 1,786,814; Dec. 30.
Arlette, Inc. (See Watts, Warren S., assignor.)
Arnold, Carl, Nuremberg, Germany. Spark toy. 1,787,349; Dec. 30.
Arnold, Robert V., E. E. Flickinger, and S. E. Wantz, Taneytown, Md. Feeder and disintegrator or mixer. 1,786,556; Dec. 30.
Aronson, Peter A., Devon, Conn., assignor to Hookless Fastener Company, Meadville, Pa. Separable fastener. 1,786,978; Dec. 30.
Ashley, Gamb J., Goodloes, Va. Automatic draft regulator. 1,786,931; Dec. 30.
Aspinwall, Louis M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Train-control system. 1,786,815; Dec. 30.
Atkins, Edward G., assignor to Wolverine Carburetor Company, Jackson, Mich. Carburetor. 1,787,230; Dec. 30.
Atlas Bolt & Screw Company, The. (See Schellentrager, Eugene W., assignor.)
Attwood, Charles W. (See Nicholay, Paul, assignor.)
Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Pot head for conductors. 1,786,728; Dec. 30.
Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Pot head for insulated conductors. 1,786,729; Dec. 30.
Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Fitting for insulators. 1,786,730; Dec. 30.
Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Terminal housing for cables. 1,786,731; Dec. 30.
Automatic Merchandizer Inc., The. (See Lea, Charles, assignor.)
Automatic Molding Machine Corporation. (See Morris, T. O., and Lawlor, assignors.)
Babson Manufacturing Corporation. (See Stampen, Jacob J., assignor.)
Bacheldor, William H., Wood River, Ill., assignor to Standard Oil Company, Whiting, Ind. Filter-leaf construction. 1,787,100; Dec. 30.
Back, Robert. (See Mungen, D. D., and Back.)
Bacon, Gilbert C., Tamaqua, Pa., assignor to Darco Corporation, Wilmington, Del. Sanitation of refrigerators. 1,787,231; Dec. 30.
Badger, E. B., & Sons Company. (See Boyden, Davis S., assignor.)
Bagley, Francis H., Savannah, Ga. Railway switch. 1,787,336; Dec. 30.
Bailey, Banks & Biddle Company, The. (See Constabel, Arthur A., assignor.)
Bailey, Charles F., assignor to Keystone Steel & Wire Company, Peoria, Ill. Method and apparatus for continuous wire feeding. 1,787,301; Dec. 30.
Bailey, William M. (See Proctor, J. A., and Bailey.)
Baird, Lynne D., Tulsa, Okla. Wrench. 1,787,185; Dec. 30.
Bakehouse, Dietrich C., North Hollywood, Calif. Door. 1,787,302; Dec. 30.

Baker, David B. (See Johnston, E. A., Benjamin, Baker, and Hagen.)
Baker, George R. (See Kirman, H., and Baker.)
Baker Perkins Company. (See Kirman, H., and Baker, assignor.)
Balduf, Bruno E., assignor to United States Gypsum Company, Chicago, Ill. Building insulation. 1,786,732; Dec. 30.
Bancroft, Nathaniel W., Buenos Aires, Argentina. Cock or faucet for fluids. 1,786,885; Dec. 30.
Baquey, Gaston. (See Baquey, Pierre.)
Baquey, Pierre, otherwise known as Gaston Baquey, Colombes, France. Face paint or fard distributor with stump. 1,786,418; Dec. 30.
Baranowski, Kazimierz, Paris, France, assignor to W. J. Einstein, London, England. Electroplating apparatus. 1,786,592; Dec. 30.
Barbagelata, Angelo, Milan, Italy, assignor to General Electric Company. Automatic electric regulator or overload limiting apparatus. 1,787,803; Dec. 30.
Barber Asphalt Company, The. (See Gronemeyer, Fred G., assignor.)
Barber, Franklin L., and E. W. Webb, assignors to Standard Car Truck Company, Chicago, Ill. Car truck. 1,787,081; Dec. 30.
Barkelj, Jean A. H., Los Angeles, Calif. Inlet manifold for straight-eight internal-combustion engines. 1,787,186; Dec. 30.
Barker, George W., et al. (See Lewis, Samuel A., assignor.)
Barker, James, Kalamazoo, Mich. Loose-leaf binder. 1,786,816; Dec. 30.
Barker, Ralph H., et al. (See Lewis, Samuel A., assignor.)
Barnes, Eugene L., Buffalo, N. Y. Air filter. 1,787,135; Dec. 30.
Barnes, Paul R. (See Brown, Milton V., assignor.)
Barrows, Donald S., Rochester, assignor to The Symington Company, New York, N. Y. Draft rigging. 1,786,419; Dec. 30.
Barton, William MacK., Florence, Ala. Prison bar and alarm-system circuit closer. 1,787,350; Dec. 30.
Bataille, Gerald S., Somerville, Mass. Refrigerator. 1,786,817; Dec. 30.
Bauer, William J., assignor to Project Holding Corporation, New York, N. Y. Collapsible chair. 1,786,473; Dec. 30.
Baughman, George W., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Trackway apparatus for automatic train control systems. 1,786,818; Dec. 30.
Beall, William L., Chattanooga, Tenn., assignor to International Harvester Company. Fertilizer distributor. 1,786,886; Dec. 30.
Beauchamp, George D., Los Angeles, Calif. Pick for stringed musical instruments. 1,787,136; Dec. 30.
Becker, Albert W., Hartford, Conn. Windshield-clearing device. 1,786,932; Dec. 30.
Becker, Harold R., assignor to Becker Valve and Specialty Corporation, Newburgh, N. Y. Mixing valve. 1,787,304; Dec. 30.
Becker, Logan A., and J. M. Munson, Lakewood, assignors to The Dobeckmun Company, Cleveland, Ohio. Tube forming and reeling machine. 1,787,232; Dec. 30.
Becker Valve and Special Corporation. (See Becker, Harold R., assignor.)
Becker Valve and Special Corporation. (See Sinclair, Leonard, assignor.)
Bek, Ernst G. (See Kindl, assignor.)
Belding, William D., Denver, Colo. Building construction. 1,786,691; Dec. 30.
Bell, Godfrey. (See Shehan, W. E., and Bell.)
Bell & Howell Company, The. (See Howell, Albert S., assignor.)
Bell, John E., Brooklyn, N. Y., assignor to Combustion Engineering Corporation. Method and apparatus for burning pulverized fuel. 1,786,887; Dec. 30.
Bell Telephone Laboratories, Incorporated. (See Hartley, Ralph V. L., assignor.)
Bendix Brake Company. (See Michael, Gus F., assignor.)
Benjamin, Bert R. (See Johnston, E. A., Benjamin, Baker, and Hagen.)
Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Fixture construction. 1,787,032; Dec. 30.
Benner, Raymond C., assignor to The Carborundum Company, Niagara Falls, N. Y. Furnace. 1,786,593; Dec. 30.
Bennett, Eddie F., Eastland, Tex. Grounding device. 1,787,351; Dec. 30.
Bennett, Incorporated. (See Clapp, Albert L., assignor.)
Benoit, Leon, Chicago, Ill. Lid or closure. 1,786,733; Dec. 30.
Bensinger, James M., assignor of one-half to A. Howell, Gadsden, Ala. Scoop scale. 1,787,352; Dec. 30.
Bensmann, Hermann, Bremen, Germany. Regeneration of lubricating oils. 1,787,353; Dec. 30.
Berg, Knute, Spokane, Wash. Chain saw. 1,786,641; Dec. 30.
Bergstrom, Carl P., Millbury, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Yieldable support for bobbin tips. 1,786,692; Dec. 30.
Betzer, Cecil C., Bronson, Iowa. Sterilizing container for barbers. 1,786,594; Dec. 30.
Bickel, Henry F., Plainfield, N. J., assignor to The New York Air Brake Company. Pump-regulating valve. 1,786,474; Dec. 30.
Bickell, William A., Vancouver, British Columbia, Canada. Scow. 1,786,514; Dec. 30.
Bindschedler, Theodore S., and W. A. Wood, assignors to The Steel Penetrometer Company, Detroit, Mich. Alternating-current generator. 1,786,888; Dec. 30.
Bischof, Bernhard, Winterthur, assignor of one-half to C. Haccius, Cologny-Geneva, Switzerland. Air compressor. 1,786,595; Dec. 30.
Bissell Carpet Sweeper Company. (See Pullen, Fred W., assignor.)
Bissell, Richard E., Cleveland, Ohio, assignor to Thompson Products, Inc. Valve with removable ring-seating surface. 1,786,596; Dec. 30.
Bivins, Chalfant E., Brooklyn, N. Y. Ink. 1,787,233; Dec. 30.
Blass, Wilhelm, Hamburg, Germany. Transformation of a motor car with closed carriage body into a platform lorry. 1,786,693; Dec. 30.
Bledsoe, Carl F., assignor to Ogle Construction Company, Chicago, Ill. Material-handling plant. 1,786,734; Dec. 30.
Bliss, E. W., Company. (See Kruse, Peter, assignor.)
Blomstrom, Lowell C., assignor to Federal Mogul Corporation, Detroit, Mich. Mounting bearings on arbors in multiple. 1,786,557; Dec. 30.
Bochnak, Andy, Bobtown, Pa. Repeating rifle. 1,787,354; Dec. 30.
Boesel, Otto A., Ansonia, assignor to The H. A. Matthews Manufacturing Company, Seymour, Conn. Luggage lock. Des. 82,026; Dec. 30.
Bohrer, Raymond E. (See Payne, W. B., Bohrer, and Fuhlborn.)
Bohrer, Raymond E., W. B. Payne and C. G. Tiefel, deceased, by E. M. Tiefel, executrix, assignors to The Todd Company, Incorporated, Rochester, N. Y. Check writer. 1,787,234; Dec. 30.
Boileau, Arthur H., Cedar Rapids, Iowa, assignor, by mesne assignments, to Cherry-Burrell Corporation, Wilmington, Del. Pasteurizing apparatus. 1,786,819; Dec. 30.
Boosey, Edward W. N., Detroit, Mich. Floor drain. 1,786,558; Dec. 30.
Boosey, Edward W. N., Detroit, Mich. Drainage fitting. 1,786,597; Dec. 30.
Booth, Clement, assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding machine. 1,787,337; Dec. 30.
Borden Company, The. (See McClatchie, John M., assignor.)
Borden, Stephen W. (See Roe, Ralph C., assignor.)
Born, Philipp, Bad Homburg, Germany, assignor, by mesne assignments, to the firm of Naamlooze Vennootschap Nederlandsche Gruyère-Blokmelk Fabriek, Zwolle, Netherlands. Production of solid milk and cream preparations. 1,786,559; Dec. 30.
Borton, George W., New Lisbon, N. J., assignor to Pennsylvania Crusher Company, New York, N. Y. Hammer crusher. 1,786,694; Dec. 30.
Borton, George W., New Lisbon, N. J., assignor to Pennsylvania Crusher Company, New York, N. Y. Hammer crusher. 1,786,695; Dec. 30.
Bosch, Robert, Aktiengesellschaft. (See Zeininger, Gustav A., assignor.)
Bowman, Frederick A., assignor to The Pusey & Jones Corporation, Wilmington, Del. Shake mechanism. 1,786,933; Dec. 30.
Box Blank Corporation. (See Andrews, Champe S., assignor.)
Boyden, Davis S., Allston, assignor to E. B. Badger & Sons Company, Boston, Mass. Expansion joint. 1,786,642; Dec. 30.
Braly, Norman B., Redwood City, Calif. Illuminated mirror. 1,786,420; Dec. 30.
Bramwell, Francis H., assignor to Imperial Chemical Industries Limited, London, England. Lining vessels for carrying out operations with liquids and the like. 1,787,101; Dec. 30.
Brandt, Henry E., St. Paul, assignor to The Dobbins Manufacturing Company, North St. Paul, Minn. Sprayer. 1,786,889; Dec. 30.
Braun, Carl A., Munich, Germany. Manufacturing cellulose and textile fibers from vegetable matter. 1,786,890; Dec. 30.
Brickman, Allen E., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Harness sheave stand for looms. 1,786,696; Dec. 30.
Briggs, Burdett B., Chicago, Ill. Connecting rod. 1,786,934; Dec. 30.
Briggs and Stratton Corporation. (See Mack, Perry E., assignor.)
Brill, J. G., Company, The. (See Durning, Edward G., assignor.)
Bristol, Wm. H., Talking Picture Corporation. (See Thompson, Lincoln, assignor.)
Broer, William H., Yankton, S. Dak. Electrical connecter. 1,786,598; Dec. 30.
Brown, Charles A., Lorain, Ohio. Fluid controller. 1,786,894; Dec. 30.
Brown Company. (See Webber, Robert A., assignor.)

Brown, Derrick C. (See Lelean, W. A., and Brown.)
Brown, Henry P., and P. F. Truscinski, South St. Paul, Minn. Violin. 1,786,891; Dec. 30.
Brown Instrument Company, The. (See Van Orsdale, Allen A., assignor.)
Brown, Milton V., assignor of one-half to P. R. Barnes, Guthrie, Okla. Sign. 1,787,355; Dec. 30.
Brown, Theophilus, assignor to Deere & Company, Moline, Ill. Plow. 1,787,137; Dec. 30.
Brown, Vernon. (See Pengilly, J. H., and Brown.)
Brownell, James L., Kalamazoo, Mich. Flood light. 1,786,515; Dec. 30.
Bruesbaber, Martin W., River Forest, Ill., assignor to Goss Printing Press Company. Printing-press cylinder. 1,787,187; Dec. 30.
Bryan, Russell R., Pachuca, Hidalgo, Mex., assignor, by mesne assignments, to The Merrill Company, San Francisco, Calif. Recovering cyanides. 1,787,033; Dec. 30.
Bryce, James W., Bloomfield, N. J., assignor to International Time Recording Company of New York, Endicott, N. Y. Time recorder. 1,786,979; Dec. 30.
Bryson, Tandy A., assignor, by mesne assignments, to Tolhurst Machine Works, Inc., Troy, N. Y. Centrifugal drying machine. 1,786,475; Dec. 30.
Buckeye Jack Manufacturing Company, The. (See Clark, Harold W., assignor.)
Budd Wheel Company. (See Hughes, James W., assignor.)
Budd Wheel Company. (See Hunt, J. Harold, assignor.)
Budd Wheel Company. (See Smith, John W., assignor.)
Burlmann, Adolph W., Monut Vernon, N. Y. Treating textiles of cellulose fiber. 1,786,421; Dec. 30.
Builders' Patent Scaffolding Company. (See Kingston, Thomas H., assignor.)
Bullock, Edward S., Lansdowne, Pa. Beetle trap. 1,786,599; Dec. 30.
Bullock, Edward W., A. P. Schausell, A. W. Draeseke, C. T. Galloway, and M. H. Hill, assignors to Gleason Works, Rochester, N. Y. Machine for producing gears. 1,786,697; Dec. 30.
Burdick Corporation, The. (See Maxson, Rolland H., assignor.)
Burger, Augustus T., Delano, Calif. Rotary fluid compressor. 1,786,893; Dec. 30.
Burgess, Andrew O., Brooklyn, assignor to J. R. Wood & Sons, Inc., New York, N. Y. Ring. Des. 82,927; Dec. 30.
Burgess, Andrew O., Brooklyn, assignor to J. R. Wood & Sons, Inc., New York, N. Y. Ring. Des. 82,928; Dec. 30.
Burgess, C. F., Laboratories, Inc. (See Shoemaker, Milton J., assignor.)
Burgess, Galusha A., Long Beach, Calif. Electric switch. 1,786,935; Dec. 30.
Bürgin, Ernest, and W. Schmid, Rheinfelden, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Continuous production of fused caustic alkalies. 1,786,516; Dec. 30.
Burke, William E., Trona, Calif., assignor to American Potash & Chemical Corporation, New York, N. Y. Crystallization process. 1,787,356; Dec. 30.
Burkhardt, Conrad C. C. (See Glaenzer, H., and Burkhardt.)
Burns, Onslow R., Chicago, Ill. Toy vehicle frame. 1,787,034; Dec. 30.
Burnside, Harlow D. (See Burrows, R. J., and Burnside.)
Burrell, Edward P., assignor, by mesne assignments, to The Guardian Trust Company, Cleveland, Ohio. Apparatus for cutting materials. 1,786,698; Dec. 30.
Burrell, Edward P., assignor, by mesne assignments, to The Guardian Trust Company, Cleveland, Ohio. Apparatus for cutting materials. 1,786,699; Dec. 30.
Burrows, Robert J., Buchanan, and H. D. Burnside, Battle Creek, assignors to Clark Tructractor Company, Buchanan, Mich. Dumping truck. 1,786,560; Dec. 30.
Burton, Charles S., Oak Park, Ill. Vacuum-operated fuel-feeding apparatus. 1,786,700; Dec. 30.
Butler, Leland K., Manchester, N. H., assignor, by mesne assignments, to Excel Taping Machine Co., Lynn, Mass. Tape-applying apparatus. 1,787,138; Dec. 30.
Butlin, Hilton B., Lapeer, Mich. Wrench. 1,786,701; Dec. 30.
Button, George W., Corporation. (See Sierad, Albert E., assignor.)
Byrd, Britton E., assignor to Mill Devices Company, Inc., Gastonia, N. C. Knotter. 1,787,102; Dec. 30.
Byrnes, Clarence P., Sewickley, assignor to Window Glass Machine Company, Pittsburgh, Pa. Method and apparatus for the manufacture of sheet glass. 1,786,892; Dec. 30.
Byrum, James R., R. V. Russell, and A. Meeks, assignors to The American Rolling Mill Company, Middletown, Ohio. Roll-polishing device. 1,786,820; Dec. 30.
C-S Engineering Company. (See Schellens, Christopher A. and E. L., assignors.)
Cadolle, Marcel, Paris, France. Bust bodice. 1,786,895; Dec. 30.
Cady, Charles P., Canastota, N. Y. Internal-combustion engine. 1,786,423; Dec. 30.
Caillaud, René F. H., St. Maurice, assignor to Societe Anonyme Des Etablissements Luteraan, Paris, France. Knife-edge bearing. 1,786,424; Dec. 30.
Cain, John R., Washington, D. C., assignor to The Richardson Company, Lockland, Ohio. Forming iron foils. 1,787,139; Dec. 30.
Calcott, William S., and W. A. Douglass, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Retarding the deterioration of rubber. 1,787,064; Dec. 30.
Calcott, William S., and W. A. Douglass, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Retarding the deterioration of rubber. 1,787,065; Dec. 30.
Caldwell, William R., Keyser, W. Va. Fluid-power wheel. 1,787,103; Dec. 30.
California Canning Machinery Co. (See Wilcox, George, assignor.)
California Concrete Products Co. (See Sorensen, Claude S., assignor.)
Callsen, Albert, Nuremberg, Germany, assignor to Westinghouse Electric & Manufacturing Company. Induction meter. 1,786,821; Dec. 30.
Cameron, James A., assignor to Cameron Machine Company, Brooklyn, N. Y. Variable-brake-resistance device for winding machines. 1,787,104; Dec. 30.
Cameron Machine Company. (See Cameron, James A., assignor.)
Cammarata, Angelo. (See Capocci, Pompeo, assignor.)
Campbell, James, Detroit, Mich., assignor, by mesne assignments, to Chrysler Corporation. Shipping container or box for motor vehicles and the like. 1,787,305; Dec. 30.
Campbell, John B., Salem, N. J., assignor, by mesne assignments, to Carthage Mills Incorporated, Cincinnati, Ohio. Process and apparatus for the production of felt-base floor covering. 1,787,140; Dec. 30.
Cannon, Alfred C. (See Gerow, J. A., and Cannon.)
Cano, Vernon, Elizabeth, N. J., assignor, by mesne assignments, to Maryland Air Conditioning Corporation. Conditioning machine. 1,787,063; Dec. 30.
Cape Body Limited, The. (See Gowan, William, assignor.)
Capocci, Pompeo, Hollandale, assignor of one-half to A. Cammarata, Hollywood, Fla. Ornamental lamp shade. 1,787,357; Dec. 30.
Carborundum Company, The. (See Benner, Raymond C., assignor.)
Carle, Harold, Buffalo, N. Y., assignor, by mesne assignments, to Vortex Cup Company, Chicago, Ill. Blank feeding and gluing device. 1,786,476; Dec. 30.
Carle, Harold, Buffalo, N. Y., assignor, by mesne assignments, to Vortex Cup Company, Chicago, Ill. Blank-separating mechanism. 1,786,477; Dec. 30.
Carling, William T., Guildford, England. Change-gear mechanism. 1,786,980; Dec. 30.
Carmichael, Andrew J., New Haven, Conn., assignor to The Greist Manufacturing Company. Sewing-machine ruffler. 1,786,517; Dec. 30.
Carpenter, E. W., Manufacturing Company, The. (See Carpenter, Edward W., assignor.)
Carpenter, Edward W., Fairfield, assignor to The E. W. Carpenter Manufacturing Company, Bridgeport, Conn. Knife sharpener. Des. 82,929; Dec. 30.
Carpenter, Paul. (See Dellenbarger, Charles E., assignor.)
Carr, Maurice L., New York, N. Y. Metallic structure. 1,786,822; Dec. 30.
Carrington, Malcolm, and J. H. Klinck, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Desk. 1,786,823; Dec. 30.
Carroll, John, Wheeling, W. Va., assignor to The Reeves Manufacturing Company, Dover, Ohio. Galvanizing machine. 1,787,141; Dec. 30.
Carter, Leslie F., Leonia, and F. S. Hodgman, Glen Rock, N. J., assignors, by mesne assignments, to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Ship's telegraph and recorder system. 1,787,066; Dec. 30.
Carthage Mills Incorporated. (See Campbell, John B., assignor.)
Casto, Lloyd V., assignor to Oxford Varnish Corporation, Detroit, Mich. Simulating Natural Patterns. Re17,912; Dec. 30.
Caterpillar Tractor Co. (See Turnbull, William, assignor.)
Ceskoslovenska zbrojovka akciova spolecnost v Brne. (See Holek, Emanuel, assignor.)
Ceskoslovenska zbrojovka akciova spolecnost v Brne. (See Holek, Václav, assignor.)
Chambers, Bering, Quinlan Company. (See Cooper, Earl, assignor.)
Chambers, Karl D., Montgomery, Ala. Lighting motor vehicles. 1,786,518; Dec. 30.
Chandler, Robert J. A., London, England, assignor to American Machine & Foundry Company. Cut-off for cigarette machines. 1,786,519; Dec. 30.
Chantrell Lock Corp. (See Goldberg, Samuel P., assignor.)
Chapman Electric Neutralizer Company. (See Chapman, William H., assignor.)
Chapman, William H., assignor to Chapman Electric Neutralizer Company, Portland, Me. Neutralizing apparatus. 1,787,188; Dec. 30.
Cheatham Electric Switching Device Company. (See Rabun, George D., assignor.)
Chemische Fabrik auf Actien (vorm. E. Schering). (See Schoeller, W., and Jordan, assignors.)
Chemische Fabrik auf Actien (vorm. E. Schering). (See Starkenstein, Emil, assignor.)
Chemische Fabrik Pott & Co. (See Pospiech, Friedrich, assignor.)

Cherry-Burrell Corporation. (See Boileau, Arthur H., assignor.)
Chicago Pneumatic Tool Company. (See Stevens, Edward W., assignor.)
Chicago Pneumatic Tool Company. (See Wasson, Harry C., assignor.)
Chicago Pump Company. (See Weil, Maurice I., assignor.)
Chipman, Fred W., Framingham, Mass. Steam boiler. 1,786,981; Dec. 30.
Christie, Llewellyn M., assignor, by mesne assignments, to National Fireproofing Corporation, Pittsburgh, Pa. Conduit and making same. 1,786,425; Dec. 30.
Christman, John M., assignor to Packard Motor Car Company, Detroit, Mich. Crimping machine. 1,787,142; Dec. 30.
Chrysler Corporation. (See Campbell, James, assignor.)
Cincinnati Grinders Incorporated. (See Booth, Clement, assignor.)
Cincinnati Time Recorder Company, The. (See Streckfuss, Elmer G., assignor.)
Clapp, Albert L., Danvers, assignor to Bennett, Incorporated, Boston, Mass. Producing aqueous dispersions. 1,787,338; Dec. 30.
Clapp, Albert L., Danvers, assignor to Bennett, Incorporated, Boston, Mass. Apparatus for producing aqueous dispersions. 1,787,339; Dec. 30.
Clark, Cecil F., and M. V. Clark, Los Angeles, Calif. Snap fastener. 1,787,143; Dec. 30.
Clark, Harold W., assignor to The Buckeye Jack Manufacturing Company, Alliance, Ohio. Lifting jack. 1,786,643; Dec. 30.
Clark, J. R., Company. (See Kalgren, John E., assignor.)
Clark, Mabel V. (See Clark, Cecil F., and M. V.)
Clark Tructractor Company. (See Burrows, R. J., and Burnside, assignors.)
Clay, Walter F., Texarkana, Tex. Tool. 1,787,358; Dec. 30.
Clayton, William F., Huntsville, assignor of one-sixth to W. E. James, Cullman, one-sixth to N. E. James, Birmingham, and one-third to R. E. Smith, Huntsville, Ala. Automatic thin-place preventer. 1,787,359; Dec. 30.
Cleveland Folding Machine Company, The. (See Hitchcock, Reuben, assignor.)
Cleveland Folding Machine Company, The. (See Palmer, Ernest E., assignor.)
Cleveland Graphite Bronze Company, The. (See Klocke, William H., assignor.)
Cleveland Shock Absorber Company, The. (See Mallory, Bonnie L., assignor.)
Cleveland Welding Company, The. (See Mueller, Homer L., assignor.)
Coates, Frank, Cleadon, assignor to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England. Electric coupling. 1,786,600; Dec. 30.
Coburn, James M., Kansas City, Mo., assignor to Plane-Speaker Corporation, New York, N. Y. Aeroplane-phonograph reproducer. 1,786,982; Dec. 30.
Cochran, Paul B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Drying varnish films. 1,786,824; Dec. 30.
Cole, Clarence W., Los Angeles, Calif. Display light for show cases. 1,786,601; Dec. 30.
Colgan, James F., Providence, R. I., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Shuttle-box construction for looms. 1,786,702; Dec. 30.
Colgan, James F., Providence, R. I., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Lay and shuttle box for looms. 1,786,703; Dec. 30.
Collenburg, Edward, Corona, N. Y. Device for soaping flowing water. 1,786,561; Dec. 30.
Collier, Charles S., et al., executors. (See Collier, Guy B.)
Collier, Elvira B., et al., executors. (See Collier, Guy B.)
Collier, Guy B., deceased, Kinderhook, N. Y.; C. S. Collier, Chevy Chase, Md.; and E. B. Collier, New York, N. Y., executors of said G. B. Collier. Time-switch apparatus for gas burners. 1,787,422; Dec. 30.
Collins, Raymond R., Newton, Mass. Condenser. 1,787,144; Dec. 30.
Colonial Iron Works Company, The. (See Nagel, Henry W., assignor.)
Combustion Engineering Corporation. (See Bell, John E., assignor.)
Combustion Utilities Corporation. (See Doherty, Henry L., assignor.)
Comer, Floyd E., Bristol, Ind. Pipe coupling. 1,786,825; Dec. 30.
Condit Electrical Manufacturing Corporation. (See O'Keeffe, George W., assignor.)
Condit Electrical Manufacturing Corporation. (See Wood, Joseph D., assignor.)
Conger, Clarence G., Syracuse, N. Y. Pocketbook. 1,786,896; Dec. 30.
Connant, Leon B., Cambridge, Mass., assignor, by mesne assignments, to Standard Patent Process Corporation, Vulcanizing rubber to leather. 1,787,145; Dec. 30.
Connell, Martin F., Holliston, Mass. Attachment for violins. 1,786,478; Dec. 30.
Conover, Richard, assignor to The Crosley Radio Corporation, Cincinnati, Ohio. Loud-speaker motor. 1,786,479; Dec. 30.
Constabel, Arthur A., Norristown, assignor to The Bailey Banks & Biddle Company, Philadelphia, Pa. Ring. Des. 82,930; Dec. 30.
Container Corporation of America. (See Walter, Harrison B., assignor.)
Continental Can Company. (See Renshaw, Joseph H., assignor.)
Continental-Diamond Fibre Company. (See Taylor, J. M., Jacobs, and Titus, assignors.)
Continental Optical Frame Company. (See Grom, Henry W., assignor.)
Cook, Horace F. (See Robinson, J. T., and Cook.)
Cooper, Earl, assignor to Chambers, Bering, Quinlan Company, Decatur, Ill. Bushing. 1,786,826; Dec. 30.
Cooper, William L., and L. D. Fortier, Kankakee, Ill., assignors to Sears, Roebuck and Co., Chicago, Ill. Liquid-fuel stove. 1,787,189; Dec. 30.
Copeland Products Inc. (See Muffly, Glenn, assignor.)
Copeman Laboratories Company. (See Copeman, Lloyd G., assignor.)
Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Method and apparatus for positioning and sealing ice-cream cans in ice-cream cabinets. 1,786,827; Dec. 30.
Copony, Alfred, Mount Clemens, assignor to Copony Auto Loading Company, Detroit, Mich. Decking device for freight cars. 1,786,735; Dec. 30.
Copony, Alfred, Mount Clemens, assignor to Copony Auto Loading Company, Detroit, Mich. Decking device for freight cars. 1,786,736; Dec. 30.
Copony Auto Loading Company. (See Copony, Alfred, assignor.)
Costellow, Earle H. (See Dempsey, E. J., and Costellow.)
Courtney, R. A. (See Laird, James A., assignor.)
Cowherd, Frank F., Chicago, Ill. Internal-combustion-engine-cleaning device. 1,787,360; Dec. 30.
Cox, Ernest H., Duncan, Okla. Oil-well-testing device. 1,786,897; Dec. 30.
Craig, George, Los Angeles, Calif. Temperature regulator. 1,787,146; Dec. 30.
Craig, William E., assignor to John A. Roebling's Sons Company, Trenton, N. J. Tapered wire rope and making the same. 1,786,936; Dec. 30.
Craig, William P., Shelby, N. C. Thread guide for shuttles. 1,786,802; Dec. 30.
Crane Co. (See Dopp, Carl A., assignor.)
Crane, Joseph B., New York, N. Y., and L. J. Marshall, Westwood, N. J., assignors to International Combustion Engineering Corporation, New York, N. Y. High-pressure-boiler installation. 1,786,828; Dec. 30.
Crew, Charles R., Edgewood, Md., assignor to Lloyd C. Adley, Llanerch, Pa. Motion toy. 1,786,737; Dec. 30.
Crocker, Thomas F., Chicago, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Toll-service trunking system. 1,786,480; Dec. 30.
Crompton & Knowles Loom Works. (See Bergstrom, Carl P., assignor.)
Crompton & Knowles Loom Works. (See Brickman, Allen E., assignor.)
Crompton & Knowles Loom Works. (See Colgan, James F., assignor.)
Crompton & Knowles Loom Works. (See Doherty, Philip D., assignor.)
Crompton & Knowles Loom Works. (See Gargolinski, Anthony D., assignor.)
Crompton & Knowles Loom Works. (See Gordon, Albert A., assignor.)
Crompton & Knowles Loom Works. (See Holmes, Elbridge R., assignor.)
Crompton & Knowles Loom Works. (See Jennings, Victor H., assignor.)
Crompton & Knowles Loom Works. (See Lyle, John, assignor.)
Crompton & Knowles Loom Works. (See Morrell, Alfred F., assignor.)
Crompton & Knowles Loom Works. (See Payne, Oscar V., assignor.)
Crompton & Knowles Loom Works. (See Regan, John, assignor.)
Crompton & Knowles Loom Works. (See Tinsley, John F., assignor.)
Crompton & Knowles Loom Works. (See Turner, Richard G., assignor.)
Crompton & Knowles Loom Works. (See Unwin, Kenneth J., assignor.)
Crompton & Knowles Loom Works. (See Wakefield, Walter H., assignor.)
Crompton & Knowles Loom Works. (See Wattie, William M., assignor.)
Crosley Radio Corporation, The. (See Conover, Richard, assignor.)
Culin, Alice, New York, N. Y. Statuette or similar article. Des. 82,931; Dec. 30.
Curioni, Aldo, Larchmont, N. Y. Machine for stitching patterns on fabric bases. 1,786,481; Dec. 30.
Curtis, Thomas S., assignor to Vitrefrax Corporation, Huntington Park, Calif. Recrystallized refractory composition. 1,786,482; Dec. 30.
Cutler-Hammer, Inc. (See Meuer, George J., assignor.)
Cutter-Crossette Company. (See Wolf, Harry, assignor.)
Cyclone Manufacturing Company, The. (See Speicher, Daniel E., assignor.)
D. & S. Jewelry Co. (See Dansereau, Charles E., assignor.)
Daley, James C., and E. G. Goddard, assignors to Jefferson Electric Manufacturing Company, Chicago, Ill. Transformer. 1,786,422; Dec. 30.
Daly Manufacturing Company, The. (See Snow, Arthur E., assignor.)
Damon, Francisque. (See Mouthe, Auguste, assignor.)

Dansereau, Charles E., Warwick Downs, assignor to D. & S. Jewelry Co., Providence, R. I. Chain. 1,787,405; Dec. 30.
Danver, Andrew C. (See Kirk, G., and Danver.)
Darco Corporation. (See Bacon, Gilbert C., assignor.)
Darling, Louis H., Vallejo, Calif. Gun cleaner. 1,786,520; Dec. 30.
Daum, Harry, Pittsburgh, Pa. Furnace construction. 1,786,829; Dec. 30.
Davis, Clarence R., assignor to Davis Tool & Engineering Company, Detroit, Mich. Shield for automobile radiators. 1,787,035; Dec. 30.
Davis, David R., Los Angeles, Calif. Screw propeller. 1,786,644; Dec. 30.
Davis, David R., Didsbury, England, assignor to Westinghouse Electric & Manufacturing Company. Sectional electrical bus bar. 1,786,830; Dec. 30.
Davis, John W. (See De Baufre, W. L., and Davis.)
Davis, Kenneth, St. Benedict, Pa., assignor, by mesne assignments, to Peale-Davis Company, Wilmington, Del. Process and mechanism for dividing inter-mixed materials. 1,786,738; Dec. 30.
Davis, Kenneth, St. Benedict, Pa., assignor, by mesne assignment, to Peale-Davis Company, Wilmington, Del. Mechanism and process for separating intermixed divided materials. 1,787,340.; Dec. 30.
Davis, Kenneth, Ebensburg, Pa., assignor, by mesne assignments, to Peale-Davis Company, Wilmington, Del. Method and mechanism for separating divided materials. 1,786,739; Dec. 30.
Davis, Kenneth, Ebensburg, Pa., assignor, by mesne assignments, to Peale-Davis Company, Wilmington, Del. Method and mechanism for separating inter-mixed materials. 1,786,740; Dec. 30.
Davis Tool & Engineering Company. (See Davis, Clarence R., assignor.)
Davis, Windsor. (See Kauffman, L. A., and Davis.)
Dawson, Albert S., Glenville, Conn., assignor to Read Machinery Company, York, Pa. Whisk whip. 1,786,603; Dec. 30.
Day, Howard D., assignor to Roterkleen Manufacturing Company, Providence, R. I. Device for washing golf balls. 1,787,306; Dec. 30.
De Bataafsche Petroleum Maatschappij. (See Meijer, Reinier, assignor.)
De Baufre, William L., Lincoln, Nebr., and J. W. Davis, Washington, D. C. Liquefaction. 1,786,898; Dec. 30.
Deca-Disc Phonograph Company. (See Moore, William R., jr., assignor.)
Deere & Company. (See Brown, Theophilus, assignor.)
Deere & Company. (See Neighbour, L. B., and Thomann, assignors.)
Deere & Company. (See Strandlund, Carl G., assignor.)
De Ferranti, Sebastian Z., assignor to Ferranti, Limited, Hollinwood, England. Electric transformer. 1,786,899; Dec. 30.
Deibele, Stanaeslaus, Woodburn, Oreg. Insect trap. 1,786,704; Dec. 30.
Delany, Edward L., Brooklyn, N. Y. Apparatus for making composition-rubber float valves. 1,786,483; Dec. 30.
Delany, Edward L., Brooklyn, N. Y. Handle. 1,787,105; Dec. 30.
De Laval Separator Company, The. (See Hapgood, Cyrus H., assignor.)
Delco Light Company. (See Warner, Clarence, assignor.)
Dallenbarger, Charles E., Chicago, assignor to P. Carpenter, Glenview, Ill. Modified gum and its manufacture. 1,786,831; Dec. 30.
Dempsey, Edmund J., and E. H. Costellow, assignors to Phillips-Baker Rubber Company, Providence, R. I. Manufacture of footwear. 1,786,984; Dec. 30.
Dempsey, Edmund J., and E. H. Costellow, assignors to Phillips-Baker Rubber Company, Providence, R. I. Manufacture of footwear. 1,78_,984; Dec. 30.
Dermody, Michael, New York, N. Y. Latch. 1,786,521; Dec. 30.
Derwish, Emen, Fertile, Minn. Combination cigarette and match box. 1,787,361; Dec. 30.
Detroit Vapor Stove Company, The. (See Sherman, A. G., and Meadows, assignors.)
Dettwyler, William. (See Gubelmann, I., Goodrich, and Dettwyler.)
Detwiler, William F., Tarentum, Pa. Furnace. 1,787,307; Dec. 30.
Diamond Electrical Manufacturing Company, Ltd. (See Pengilly, J. H., and Brown, assignors.)
Diamond, James K., Grand Rapids, Mich. Bag closure. 1,786,426; Dec. 30.
Dibner, Abraham, Peekskill, N. Y. Choke coil. 1,786,604; Dec. 30.
Dickman, Frank G., Chicago, Ill. Form support. 1,786,522; Dec. 30.
Dietz, William C. F., Cincinnati, Ohio. Feeding table for clothes wringers. 1,786,705; Dec. 30.
Dilts Machine Works, Inc., et al. (See Johnson, Frank A., assignor.)
Dippman, Fred R. (See Moore, E. D., and Dippman.)
Dippman, Fred R., and E. D. Moore, assignors to The Ohio Brass Company, Mansfield, Ohio. Current-collector support. 1,786,719; Dec. 30.
Dobbins Manufacturing Company, The. (See Brandt, Henry E., assignor.)
Dobeckmun Company, The. (See Becker, L. A., and Munson, assignors.)
Dodge, Merton L., Seattle, Wash. Doorcheck. 1,787,147; Dec. 30.
Doering, George J., Evanston, Ill. Trip hook. 1,786,523; Dec. 30.
Doherty, Henry L., New York, N. Y. House-heating system. 1,786,900; Dec. 30.
Doherty, Henry L., assignor to Combustion Utilities Corporation, New York, N. Y. Fluid-fuel heating system. 1,786,901; Dec. 30.
Doherty, Philip D., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Resetting mechanism for weft-replenishing looms. 1,786,706; Dec. 30.
Donaldson, Frank A., Minneapolis, Minn. Air cleaner and coupling. 1,787,235; Dec. 30.
Donley, Harold B., A. J. Frame, and J. G. Gilmore, assignors to Franklin Oil Heating, Incorporated, Columbus, Ohio. Oil-burning apparatus. 1,786,832; Dec. 30.
Dopp, Carl A., assignor to Crane Co., Chicago, Ill. Valve. 1,787,236; Dec. 30.
Doughty, James P., jr., Augusta, Ga. Smoker's article. 1,786,902; Dec. 30.
Douglass, William A. (See Calcott, W. S., and Douglass.)
Dover, George W., assignor to Dovercraft Company, Inc., Providence, R. I. Curtain-rod structure. 1,786,645; Dec. 30.
Dovercraft Company. (See Dover, George W., assignor.)
Doyle, William F. (See Graham, W. A., and Doyle.)
Draeseke, Alfred W. (See Bullock, E. W., Schausell, Draeseke, Galloway and Hill.)
Duda, Oswald, assignor to Reed Roller Bit Company, Houston, Tex. Reamer. 1,786,484; Dec. 30.
Dull, Raymond W., assignor to Link-Belt Company, Chicago, Ill. Apparatus for chain manufacture. 1,786,707; Dec. 30.
Duncan, William M., Alton, Ill. Chain or traveling grate stoker. 1,786,646; Dec. 30.
Dunning, Orville M., Stamford, Conn., assignor to Acoustic Products Company. Magnetic pickup. 1,786,895; Dec. 30.
Dunning, William E., assignor to The McCaskey Register Company, Alliance, Ohio. Filing appliance. 1,787,237; Dec. 30.
Dunzweiler, Carl J., assignor to Willard Storage Battery Company, Cleveland, Ohio. Storage battery. 1,786,742; Dec. 30.
Du Pont, E. I., de Nemours & Company. (See Calcott, W. S., and Douglass, assignors.)
Du Pont, E. I., de Nemours & Company. (See Dykstra, H. B., and Sly, assignors.)
Dupuis, Charles, Ladysmith, Wis. White-water system for reclaiming white water or any fiber. 1,787,341; Dec. 30.
Durbin, Vernon, Newton, assignor to The Holtzer-Cabot Electric Company, Roxbury, Mass. Fire-alarm system. 1,786,524; Dec. 30.
Durning, Edward G., assignor to The J. G. Brill Company, Philadelphia, Pa. Axle-box lid. 1,786,605; Dec. 30.
Dykstra, Harry B., and C. Sly, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing vinyl esters of organic acids. 1,786,647; Dec. 30.
Dytch, Harry, Daytona Beach, Fla. Musical wind instrument. 1,786,833; Dec. 30.
Eagle Knitting Mills, Inc. (See Goldberg, Morris B., assignor.)
Earle, Francis. (See Spilsbury, Hugh G., assignor.)
Eastern Laboratories, Inc. (See Jancke, B. F., and Kelley, assignors.)
Eaton Axle & Spring Company, The. (See Reid, James S., assignor.)
Eaton Axle & Spring Company, The. (See Wamelink, Eugene C., assignor.)
Ebeling, Charles W., assignor to General Talking Pictures Corporation, New York, N. Y. Combined motion-picture projector and photographic sound-reproducing machine. 1,786,903; Dec. 30.
Economic Machinery Company. (See Ekvall, Arvid J., assignor.)
Ecremeuses Melotte, Societe Anonyme. (See Henrard, Fernand, assignor.)
Edgerton, Israel V., assignor to Palace Poultry Car Company, Chicago, Ill. Poultry car. 1,786,427; Dec. 30.
Edson, William R., New York, N. Y., assignor, by mesne assignments, to The Rubber Shock Insulator Corporation, Wilmington, Del. Mounting for electric conductors. 1,786,937; Dec. 30.
Edwards, James H., Passaic, F. T. Llewellyn, Montclair, N. J., and R. A. Marble, Ben Avon, Pa. Series and groups of I-beams. 1,786,938; Dec. 30.
Ehrhart, William, Lancaster, Pa. Baking apparatus. 1,786,485; Dec. 30.
Ehrlich, Jacob, Belleville, assignor to Verona Chemical Co., Newark, N. J. Production of propenyl derivatives of aromatic hydrocarbons. 1,787,036; Dec. 30.
Einstein, Wladimir J. (See Baranowski, Kazimierz, assignor.)
Eisler, Henry G., Wilmette, Ill. Floor construction. 1,787,067; Dec. 30.
Ekvall, Arvid P., assignor to Economic Machinery Company, Worcester, Mass. Bottle-straightening device. 1,786,939; Dec. 30.
Ekvall, Arvid P., assignor to Economic Machinery Company, Worcester, Mass. Label wiper. 1,786,940; Dec. 30.
Electric Service Supplies Company. (See Mageoch, Harry Y., assignor.)

Electrical Engineers Equipment Co. (See Steerup, Godfrey, assignor.)
Electro Automatic Drainage Company, The. (See Van Keuren, Herbert, assignor.)
Elevator Supplies Company. (See Shonnard, Harold W., assignor.)
Eller, Wilhelm, and T. Maillung, Dessau in Anhalt, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Desulphurizing articles consisting of regenerated cellulose. 1,786,941; Dec. 30.
Ellis, John R., Houston, Tex. Telephone attachment. 1,786,986; Dec. 30.
Elsner, Heinrich, Dresden, Germany. Riveting machine. 1,787,190; Dec. 30.
Endorf, Charles, Chicago, Ill. Heat-insulating device for cooking utensils. 1,786,562; Dec. 30.
Ensign Carburetor Company. (See Ensign, Orville H., assignor.)
Ensign, Orville H., Pasadena, Calif., assignor to Ensign Carburetor Company, Los Angeles, Calif. Carburetor. 1,787,148; Dec. 30.
Eppelsheimer, Daniel, assignor to The American Rolling Mill Company, Middletown, Ohio. Rolling metal. 1,786,834; Dec. 30.
Ericksin, Oscar, Alexandria, Minn. Line follower. 1,787,362; Dec. 30.
Estate Stove Company, The. (See Kahn, Bertrand B., assignor.)
Eureka Tool Company, The. (See Althausen, Robert, assignor.)
Evans, George E., near Waco, Tex. Cotton-boll extracting and cleaning device. 1,786,904; Dec. 30.
Evich, Jerie, Santa Barbara, Calif. Exhaust whistle. 1,786,905; Dec. 30.
Evinrude, Ole, Milwaukee, Wis., assignor, by mesne assignments, to Outboard Motors Corporation. Water-cooling system for outboard motors. 1,786,835; Dec. 30.
Excel Taping Machine Co. (See Butler, Leland K., assignor.)
Fahnestock, William B., Wyoming, Ohio. Filing desk. 1,787,363; Dec. 30.
Farmer, Patterson, Detroit, Mich. Refrigerating apparatus. 1,786,836; Dec. 30.
Farnham, Merton W., Batavia, N. Y., assignor to United States Gypsum Company, Chicago, Ill. Molding machine. 1,786,837; Dec. 30.
Federal Mogul Corporation. (See Blomstrom, Lowell C., assignor.)
Fenton, Paul E., Thomaston, assignor to Scovill Manufacturing Company, Waterbury, Conn. Mounting rubber containers in boxes. 1,787,364; Dec. 30.
Ferranti, Limited. (See de Ferranti, Sebastian Z., assignor.)
Ferris, William D., assignor to Frants Manufacturing Co., Sterling, Ill. Garage-door construction. 1,787,238; Dec. 30.
Feybusch, Martin, New York, N. Y., assignor to New Jersey Machine Corporation, Hoboken, N. J. Box. 1,786,143; Dec. 30.
Filer & Stowell Company, The. (See Pelton, George M., assignor.)
Filter Fabrics, Inc. (See Manning, Fred W., assignor.)
Firestone Steel Products Company, The. (See Swain, Joseph G., assignor.)
Firestone Tire & Rubber Company, The. (See Putt, Edward D., assignor.)
Firestone Tire and Rubber Company, The. (See Stevens, Horace D., assignor.)
Firestone Tire and Rubber Co., The. (See Stevens, William C., assignor.)
Fisher, Charles, San Francisco, Calif. Parachute. 1,786,838; Dec. 30.
Fisher, Harry L., Leonia, N. J., assignor to The B. F. Goodrich Company, New York, N. Y. Cellular composition and making same. 1,786,563; Dec. 30.
Fisher, Thomas, Minatare, Nebr. Combined tail light and license plate. 1,786,564; Dec. 30.
Fisk Rubber Company, The. (See Lehman, Paul W. assignor.)
Fisk Rubber Company, The. (See Maynard, Charles E., assignor.)
Fisk, William T., assignor to Master Woodworker Mfg. Co., Detroit, Mich. Woodworking machine. 1,787,191; Dec. 30.
Fiske, Augustus H., assignor to Rumford Chemical Works, Providence, R. I. Purifying phosphoric acid and the like. 1,787,192; Dec. 30.
Fiske, Augustus H., Warren, assignor to Rumford Chemical Works, Providence, R. I. Leavening preparation. 1,787,193; Dec. 30.
Flanders, Warren B., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Governor. 1,786,987; Dec. 30.
Fleischmann, Hanns, Ludwigshafen-on-the-Rhine, and O. Jordan, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the Main, Germany. Production of intaglio printing colors. 1,787,239; Dec. 30.
Fletcher, Lindsey C., Moores, Pa., assignor to Westinghouse Electric & Manufacturing Company. Elastic fluid turbine. 1,786,942; Dec. 30.
Flickinger, Emory E. (See Arnold, R. V., Flickinger, and Wantz.)
Flowers, Henry F., Findlay, Ohio. Raising mechanism. 1,787,342; Dec. 30.
Floyd, Earl T., near Temple, assignor to The Nolde and Horst Company, Reading, Pa. Striped stocking. 1,787,365; Dec. 30.
Flynn, John P., Medford, Mass. Line-up gauge for proving type forms. 1,787,037; Dec. 30.
Ford, Ira D., Roseland, Ontario, Canada, assignor to Universal Button Fastening & Button Company, Detroit, Mich. Button. 1,786,839; Dec. 30.
Ford, Ira D., Roseland, Ontario, Canada, assignor to Universal Button Fastening & Button Company, Detroit, Mich. Button. 1,786,840; Dec. 30.
Foresman, Clarance A., deceased, Cicero, Ill., D. A. Lund, administratrix. Finger-nail file. Des. 82932; Dec. 30.
Fortier, Leon D. (See Cooper, W. L., and Fortier.)
Foster Machine Company. (See McKean, John O., assignor.)
Foster Wheeler Corporation. (See Lonsdale, William, assignor.)
Fountain, Lee C., Kingsburg, assignor of one-third to F. E. Weaver, Hyman, S. C. Plow point. 1,787,366; Dec. 30.
Frame, Augustus J. (See Donley, H. B., Frame, and Gilmore.)
Frank, Alfred, Stuttgart, Germany. Iron frame wall for buildings and the like. 1,787,367; Dec. 30.
Franklin Oil Heating, Incorporated. (See Donley, H. B., Frame, and Gilmore, assignors.)
Frantz Manufacturing Co. (See Ferris, William D., assignor.)
Fraser, James, Edge Moor, assignor to Speakman Company, Wilmington, Del. Shower head. 1,786,988; Dec. 30.
Frederickson, Clayton E., Moline, Ill., assignor, by mesne assignments, to Thompson Motor Corporation, Muscatine, Iowa. Frame and spring suspension for motor vehicles. 1,786,906; Dec. 30.
Freeman, Albert E., East Orange, N. J., assignor to American Telephone and Telegraph Company. Thrust bearing. 1,786,565; Dec. 30.
Freeth, Richard T., Hempstead, N. Y. Stationary hose reel. 1,787,194; Dec. 30.
French, Harold R. (See Perry, Fred D., assignor.)
Fried, Krupp Aktiengesellschaft. (See Strauss, Benno, assignor.)
Friede, Samuel M., and F. J. McGuire, Sarasota, Fla. Match machine. 1,786,486; Dec. 30.
Fuerst, Edwin W., assignor to Owens-Illinois Glass Company, Toledo, Ohio. Jar. Des. 82,933; Dec. 30.
Fuhlborn, William. (See Payne, W. B., Bohrer, and Fuhlborn.)
Furlong, Roland A., assignor to The Yawman & Erbe Manufacturing Company, Rochester, N. Y. Holder for display strips. 1,787,308; Dec. 30.
Gabeler, William H. (See Miller, E. B., and Gabeler.)
Gaisman, Henry J., New York, N. Y., assignor, by mesne assignments, to Gillette Safety Razor Company, Boston, Mass. Safety razor. 1,787,240; Dec. 30.
Gaisman, Henry J., New York, N. Y., assignor, by mesne assignments, to Gillette Safety Razor Company, Boston, Mass. Safety razor. 1,787,241; Dec. 30.
Galloway, Clarence T. (See Bullock, E. W., Schausell, Draesecke, Galloway, and Hill.)
Galloway Engineering Company. (See Greening, H. B., and Galloway, assignors.)
Galloway, James W. (See Greening, H. B., and Galloway.)
Gammell, Ove L., assignor to Smith & Crosby, Attleboro, Mass. Bracelet construction. 1,786,943; Dec. 30.
Gardner, Henry A., and C. A. Knauss, assignors to Henry A. Gardner Laboratory, Inc., Washington, D. C. Acetylation of nitrocellulose. 1,786,989; Dec. 30.
Gardner, Henry A., Laboratory, Inc. (See Gardner, H. A., and Knauss, assignors.)
Garey, Edward M., Brooklyn, N. Y. Illuminating device. 1,786,744; Dec. 30.
Gargolinski, Anthony D., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Clutch. 1,786,708; Dec. 30.
Gargolinski, Anthony D., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Picker-stick retriever for looms. 1,786,709; Dec. 30.
Gargolinski, Anthony D., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Harness-sheave stand for looms. 1,786,710; Dec. 30.
Gas Machinery Company, The. (See Hayes, Fred B., assignor.)
Gebler, Karl, Villingen, assignor to Kienzle Uhrenfabriken Aktiengesellschaft, Schwenningen A. N., Germany. Fare indicator. 1,786,745; Dec. 30.
Geisler, Charles R., Pittsburgh, Pa. Concrete structure and making same. 1,787,149; Dec. 30.
Geldhof, Peter E., assignor to Syracuse Washing Machine Corporation, Syracuse, N. Y. Centrifugal clothes drying and rinsing apparatus. 1,787,242; Dec. 30.
Geldhof, Peter E., assignor to Syracuse Washing Machine Corporation, Syracuse, N. Y. Mechanical clothes washer and drier. 1,787,243; Dec. 30.
Geldhof, Peter E., assignor to Syracuse Washing Machine Corporation, Syracuse, N. Y. Mechanical clothes washer. 1,787,244; Dec. 30.
General Electric Company. (See Alexanderson, Ernst F. W., assignor.)

General Electric Company. (See Barbagelata, Angelo, assignor.)
General Electric Company. (See Hoxie, Charles A., assignor.)
General Electric Company. (See Kennedy, Luke F., assignor.)
General Electric Company. (See Lum, Walter O., assignor.)
General Electric Company. (See Thumim, Carl, assignor.)
General Electric Company. (See Townsend, George R., assignor.)
General Electric Company. (See Traver, Oliver C., assignor.)
General Motors Corporation. (See Midgley, Thomas, jr., assignor.)
General Motors Corporation. (See Wells, Reginald E., assignor.)
General Motors Research Corporation. (See Midgley, T., jr., and Hochwalt, assignors.)
General Motors Research Corporation. (See Short, C. R., and Lee, assignors.)
General Talking Pictures Corporation. (See Ebeling, Charles W., assignor.)
Geoffray, Henry G., Cleveland, Ohio. Wall structure and attachment. 1,787,038; Dec. 30.
George, Richard W., Kelso, Tenn. Mower attachment. 1,786,487; Dec. 30.
Geppert, Clark H., Des Moines, Iowa. Repairing apparel shoes. 1,786,907; Dec. 30.
Gerow, John A., and A. C. Cannon, El Segundo, Calif. Flag-pole holder. 1,787,150; Dec. 30.
Gibb, William H., Bay City, Mich., assignor, by mesne assignments, to Thomson-Gibb Electric Welding Company. Seam-welding machine. 1,787,039; Dec. 30.
Gibbs, Jesse B., Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company. Terminal block for current transformers. 1,786,746; Dec. 30.
Gilbert, Walton, Pasadena, Calif. Air-speed indicator. 1,786,841; Dec. 30.
Gilbert, William L., Clock Company, The. (See Thompson, Norman F., jr., assignor.)
Gillet, Alexis F., assignor to Jubilee Manufacturing Company, Omaha, Nebr. Blade-attaching means for windshield wipers. 1,787,068; Dec. 30.
Gillette Safety Razor Company. (See Gaisman, Henry J., assignor.)
Gillindre, Edgar A., Philadelphia, Pa. Lighting fixture. 1,786,748; Dec. 30.
Gilmore, Jackson G. (See Donley, H. B., Frame, and Gilmore.)
Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. Door for railway hopper cars. 1,786,747; Dec. 30.
Glaenzer, Harry, and C. C. C. Burkhardt, Philadelphia, Pa. Self-propelled railway vehicle. 1,787,368; Dec. 30.
Glazener, Carolyn M., Hendersonville, N. C. Cord hanger. 1,787,106; Dec. 30.
Gleason Works. (See Bullock, E. W., Schausell, Draesecke, Galloway and Hill, assignors.)
Gleason Works. (See White, Herbert J., assignor.)
Globe-Wernicke Company, The. (See Smiley, Samuel, jr., assignor.)
Goddard, Edwin G. (See Daley, J. C., and Goddard.)
Goldbeck, Eugene O., San Antonio, Tex. Photographic apparatus. 1,787,309; Dec. 30.
Goldberg, Maximilian M., assignor to The National Cash Register Company, Dayton, Ohio. Computing machine. 1,786,525; Dec. 30.
Goldberg, Morris B., assignor to Eagle Knitting Mills, Inc., Philadelphia, Pa. Knitted fabric. 1,787,264; Dec. 30.
Goldberg, Samuel P., Brooklyn, N. Y., assignor to Chantrell Lock Corp. Lock. 1,786,648; Dec. 30.
Gonzalez, Augusto C., Reno, Nev. Airplane landing device. 1,786,649; Dec. 30.
Goodrich, B. F. Company, The. (See Fisher, Harry L., assignor.)
Goodrich, Robert J. (See Gubelmann, I., Goodrich, and Dettwyler.)
Goodwin, John M., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Treating hydrocarbon oil. 1,786,650; Dec. 30.
Gopold, Hubert, Zubak, Czechoslovakia. Circular-saw machine. 1,787,195; Dec. 30.
Gordon, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Color-slide control for multicolor magazines. 1,786,711; Dec. 30.
Gordon, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom dobby. 1,786,712; Dec. 30.
Gordon, Edward L., Pittsburgh, Pa. Frozen confection. 1,786,606; Dec. 30.
Goss Printing Press Company. (See Brueshaber, Martin W., assignor.)
Goudard, Maurice, assignor to "Societe Anonyme Solex", Neuilly, France. Temperature-control device. 1,787,310; Dec. 30.
Gould Coupler Company. (See Sauvage, William H., assignor.)
Gowan, William, Folkestone, assignor to The Cape Body Limited, London, England. Motor-vehicle body. 1,786,990; Dec. 30.
Graham, William A., Chicago, Ill., and W. F. Doyle, Washington, D. C. Combined chair, table, and bed. 1,787,245; Dec. 30.

Grahame, Dallas F., Montreal, Quebec, Canada, assignor to Sanford-Riley Stoker Corporation, Worcester, Mass. Intermittent driving mechanism. 1,787,265; Dec. 30.
Granat, Joseph, San Francisco, Calif. Finger ring. Des. 82,934; Dec. 30.
Granular Iron Company. (See Hornsey, John W., assignor.)
Greenawalt, John E., New York, N. Y. Manufacturing artificial aggregate for mortars and concretes. 1,786,713; Dec. 30.
Greenawalt, John E., New York, N. Y. Sintering clay. 1,786,714; Dec. 30.
Greening, Herald B., Hamilton, Ontario, Canada, and J. W. Galloway, Detroit, Mich., assignors to Galloway Engineering Company, Limited, Hamilton, Ontario, Canada. Variable-speed transmission. 1,787,246; Dec. 30.
Greening, Herald B., Hamilton, Ontario, Canada, and J. W. Galloway, Detroit, Mich., assignors to Galloway Engineering Company, Limited, Hamilton, Ontario, Canada. Variable-speed transmission. 1,787,267; Dec. 30.
Greim, Walther, Berlin, assignor to Siemens Bauunion Gesellschaft mit beschränkter Haftung, Kommanditgesellschaft, Berlin-Siemensstadt, Germany. Wooden construction. 1,786,991; Dec. 30.
Greist Manufacturing Company, The. (See Carmichael, Andrew J., assignor.)
Groehn, Otto J., Grosse Pointe Park, assignor to Hudson Motor Car Company, Detroit, Mich. Flanging body panels. 1,787,151; Dec. 30.
Groggins, Philip H., Washington, D. C. Preparation of 4-halogen - para - phenyl - ortho - benzoyl - benzoic acid. 1,786,526; Dec. 30.
Groggins, Philip H., Washington, D. C. Preparation of 2 - halogen - para - phenyl - ortho - benzoyl - benzoic acid. 1,786,527; Dec. 30.
Groggins, Philip H., Washington, D. C. Preparing 4-amino - para - phenyl - ortho - benzoyl - benzoic acid. 1,786,528; Dec. 30.
Groggins, Philip H., Washington, D. C. Preparation of 2 - amino - para - phenyl - ortho - benzoyl - benzoic acid. 1,786,529; Dec. 30.
Griffiths, Warren P. (See Lee, Charles F., assignor.)
Griner, Harry B., Merchantville, N. J. Clothes prop. 1,786,533; Dec. 30.
Groggins, Philip H., Washington, D. C. Preparation of 4 - amino - beta - phenyl - anthraquinone by amination. 1,786,530; Dec. 30.
Groggins, Philip H., Washington, D. C. Preparation of 2 - amino - beta - phenyl - anthraquinone by amination. 1,786,531; Dec. 30.
Groggins, Philip H., Washington, D. C. Preparation of para-phenoxy-ortho-benzoyl-benzoic acid. 1,786,532; Dec. 30.
Grom, Henry W., assignor to Continental Optical Frame Company, Newark, N. J. Making lens mountings. 1,787,266; Dec. 30.
Gronemeyer, Fred G., St. Louis, Mo., assignor to The Barber Asphalt Company, Philadelphia, Pa. Measuring and cutting device. 1,786,992; Dec. 30.
Groom, Bryan, Galeshiels, Scotland. Radio loud-speaker. 1,787,268; Dec. 30.
Gross, Edward J., New Rochelle, N. Y. Finger ring or article of similar nature. Des. 82,935; Dec. 30.
Grow, Harold J., East Orange, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Shaping edges for fusion welding. 1,787,247; Dec. 30.
Guardian Trust Company, The. (See Burrell, Edward P., assignor.)
Gubelmann, Ivan, and R. J. Goodrich, South Milwaukee, and W. Dettwyler, Milwaukee, assignors to The Newport Company, Carrollville, Wis. Coloring matter of the anthracene series. 1,787,069; Dec. 30.
Guenther, Henry L., Los Angeles, Calif. Double-seaming machine. 1,787,369; Dec. 30.
Gullett Gin Company. (See Wallace, Jeffrey J., assignor.)
Gunchick, Frank, Walthill, Nebr. Combination suitcase and card table. 1,786,607; Dec. 30.
Gunderson, Harley J. (See Parkin, Henry W., assignor.)
Guy, Henry L., Hale, England, assignor to Westinghouse Electric & Manufacturing Company. Elastic-fluid turbine. 1,786,993; Dec. 30.
Haccius, Charles. (See Bischof, Bernhard, assignor.)
Hagen, Clarence R. (See Johnston, E. A., Benjamin, Baker, and Hagen.)
Haims, Phillip L., Cleveland, Ohio. Sound-prdoucing instrument. 1,787,196; Dec. 30.
Hainsworth, Robert B., Maywood, Ill. Gear puller. 1,787,070; Dec. 30.
Halberstadter, Juda, Elizabeth, N. J. Flowerpot stand. 1,786,994; Dec. 30.
Halberstadter, Juda, Elizabeth, N. J. Flowerpot holder and bracket therefor. 1,786,995; Dec. 30.
Hale, Ashley G., West Groton, Mass. Safety signal light for street cars. 1,786,534; Dec. 30.
Hall, William S., San Antonio, Tex. Aeroplane wing. 1,787,370; Dec. 30.
Halstead, John F., Brooklyn, N. Y., assignor to International Cigar Machinery Company. Bunch transfer for cigar machines. 1,786,608; Dec. 30.
Halstead, John F., Brooklyn, N. Y., assignor to International Cigar Machinery Company. Bunch transfer for cigar machines. 1,786,609; Dec. 30.
Hammel, Ernst, assignor to M. Rauch, Berlin, Germany. Manufacturing a phosphate for fertilizing. 1,786,651; Dec. 30.

Hammond, John H., jr., Gloucester, Mass. Wireless train control. 1,786,610; Dec. 30.
Hanak, Albert, Philadelphia, Pa. Separation and purification of metals and metallic alloys. 1,786,908; Dec. 30.
Hannach, Oscar, assignor to W. Kash, Wilmersdorf, near Berlin, Germany. Refrigerating composition. 1,786,842; Dec. 30.
Hansen, Gerhard, assignor to the firm: Carl Zless, Jena, Germany. Device for partial deflection of a conical pencil of imaging rays. 1,787,269; Dec. 30.
Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Cow-milking apparatus. 1,787,152; Dec. 30.
Harbison, Clarence B., assignor to The Ohio Steel Foundry Company, Lima, Ohio. Oil-refinery fitting. 1,787,040; Dec. 30.
Harden, Wilton C., assignor, by mesne assignments, to Hynson, Westcott & Dunning, Inc., Baltimore, Md. Halogenated sulphone phthaleins. 1,786,611; Dec. 30.
Harmor & Co. Inc. (See Harty, W. A., and Moore, assignors.)
Harnischfeger Corporation. (See Harry G. M., and Sternberger, assignors.)
Harper, Edward F., Philadelphia, Pa. Form for molding concrete and cement. 1,787,107; Dec. 30.
Harrison, Arthur W., Los Angeles, Calif., assignor, by mesne assignments, of one-half to Kay Brunner Steel Products, Inc. Torque brake. 1,786,996; Dec. 30.
Harry, Geoffrey M., Milwaukee, and C. Sternberger, West Allis, assignors to Harnischfeger Corporation, Milwaukee, Wis. Operating mechanism for clutch and brake bands. 1,786,749; Dec. 30.
Harter, Evan C., Sturgis, Mich. Securing means for lapped elements. 1,787,108; Dec. 30.
Hartley, Ralph V. L., South Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrooptical system. 1,786,652; Dec. 30.
Harty, William A., Buffalo, N. Y., and F. W. Moore, Thorold, Ontario, Canada, assignors to Harmor & Co. Inc., Buffalo, N. Y. Rotary drier. 1,787,197; Dec. 30.
Harvey, James W., Falmouth Foreside, Me. Marine propulsion. 1,786,997; Dec. 30.
Haskell, John D., et al. (See Johnson, Frank A., assignor.)
Hasselquist, Albert A., and I. H. M. Rognlie, Elgin, Ill. Valve. 1,786,750; Dec. 30.
Hasterman, Arch. (See Anderson, William M., assignor.)
Hastings, Herbert, Brighton, N. Y. Combined liquid level and pressure gauge. 1,786,566; Dec. 30.
Hatfield, Schuyler C., Baltimore, Md. Resilient wheel. 1,787,071; Dec. 30.
Hathorne, George A., Gloversville, N. Y. Nonskid device. 1,786,653; Dec. 30.
Haug, Herman, New York, N. Y., assignor to Rosemary Mfg. Co., Roanoke Rapids, N. C. Textile panel for a mattress covering. Des. 82,936; Dec. 30.
Hauser, Emil, New York, N. Y., assignor to Marcy Foundry Co., Perth Amboy, N. J. Chair or similar article. Des. 82,937; Dec. 30.
Hauser, Emil, New York, N. Y., assignor to Marcy Foundry Co., Perth Amboy, N. J. Chair or similar article. Des. 82,938; Dec. 30.
Hawkins, Ernest V., Mitchell, Ind. Basket. 1,786,998; Dec. 30.
Hawley, Edgar L., Atlanta, Ga. Secondary contact spring for plug cut-outs. 1,787,109; Dec. 30.
Hayden, Arthur C., Brockton, Mass. Stand for motion-picture-projector apparatus. 1,787,270; Dec. 30.
Hayden, Arthur C., Brockton, Mass. Audible footage meter and exposed-film indicator for motion-picture cameras. 1,787,271; Dec. 30.
Hayes, Fred B., Fort Wayne, Ind., assignor to The Gas Machinery Company, Cleveland, Ohio. Fuel charger for gas generators. 1,787,248; Dec. 30.
Heaton, Maurice C., West Nyack, N. Y. Laminated glass article. 1,787,371; Dec. 30.
Hedeby, Hans N., Youngstown, Ohio. Leak detector. 1,786,843; Dec. 30.
Hedeman, Walter R. (See Whitsitt, W. B., and Hedeman.)
Heeren, Arthur A., assignor to United States Gypsum Company, Chicago, Ill. Roof construction. 1,786,751; Dec. 30.
Hehnly, Frank K., St. Petersburg, Fla. Razor strop. 1,787,372; Dec. 30.
Heldorn, Edward M., Hillside, Ill. Antitheft lock for automobiles. 1,787,110; Dec. 30.
Heinz, John L. C., Chicago, Ill. Casement-window hinge. 1,787,249; Dec. 30.
Hemleb, Martin, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Lock-stitch sewing machine. 1,786,944; Dec. 30.
Henderson, Elden O., McAllen, Tex. Display tray for use on store counters. 1,787,373; Dec. 30.
Henderson, John, Picher, Okla. Windmill. 1,787,072; Dec. 30.
Henderson, Roe P., assignor to The Springfield Metallic Casket Company, Springfield, Ohio. Ear for burial-casket handles. Des. 82,939; Dec. 30.
Henderson, Roe P., assignor to The Springfield Metallic Casket Company, Springfield, Ohio. Ear for burial-casket handles. Des. 82,940; Dec. 30.
Henderson, Roe P., assignor to The Springfield Metallic Casket Company, Springfield, Ohio. Corner for burial caskets. Des. 82,941; Dec. 30.
Henderson, Roe P., assignor to The Springfield Metallic Casket Company, Springfield, Ohio. Corner for burial caskets. Des. 82,942; Dec. 30.
Hendry, William F., Ossining, assignor, by mesne assignments, to National Carbon Company, Inc., New York, N. Y. Making dry cells. 1,786,945; Dec. 30.
Henrard, Fernand, Brussels, assignor to Ecremeuses Melotte, Societe Anonyme, Remicourt, Belgium. Separating machine for milk. 1,787,311; Dec. 30.
Herlitz, Ivar. (See Ytterberg, A., and Herlitz.)
Heslop, Arthur P., Bridger, Mont. Garden-hose clamp. 1,786,612; Dec. 30.
Hess Iman, Knut J. E., Saltsjo-Storangen, Sweden. Fuel-injecting device for internal-combustion engines. 1,786,844; Dec. 30.
Hewitt, Edmund T., St. Louis, Mo. Steam trap. 1,787,374; Dec. 30.
Hiatt, Enos B. (See Kendall, Oliver O., assignor.)
Higbie, Murvale L., New York, N. Y. Paper cutter. 1,787,375; Dec. 30.
Hilkey, Charles Joseph, Emory, Ga. Bookholder. 1,786,567; Dec. 30.
Hill, Maxwell H. (See Bullock, E. W., Schausell, Draeseke, Galloway and Hill.)
Hill, Reuben, Detroit, Mich., assignor to Sargent & Greenleaf, Inc., Rochester, N. Y. Door-control apparatus. 1,787,073; Dec. 30.
Hill, William H. (See Huff, W. J., Jacobson, and Hill.)
Hillman, Joseph, New York, N. Y. Soft collar. 1,786,535; Dec. 30.
Hillmann, Hans. Gross-Raschen, Germany. Bottle-blowing machine. 1,787,312; Dec. 30.
Hipple, George R., Pottstown, Pa. Tape measure. 1,786,845; Dec. 30.
Hitchcock, Reuben, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Stacker. 1,786,752; Dec. 30.
Hochwalt, Carroll A. (See Midgley, T., jr., and Hochwalt.)
Hodgman, Frederick S. (See Carter, L. F., and Hodgman.)
Hodsdon, Floyd G., Chicago, Ill., assignor to International Harvester Company. Milking machine. 1,786,846; Dec. 30.
Hoffman, Glenn R., Springfield, Ill., assignor, by mesne assignments, to Hoffman-Paulding Company. Transmission band. 1,787,376; Dec. 30.
Hoffman, Glenn R., East St. Louis, Ill., assignor to Hoffman-Paulding Company, Detroit, Mich. Braking mechanism for automobiles and other motor or power driven vehicles. 1,787,377; Dec. 30.
Hoffman-Paulding Company. (See Hoffman, Glenn R., assignor.)
Hofmann, Friedrich, Mulheim-on-the-Ruhr, Germany, assignor to Holzwarth Gas Turbine Co., San Francisco, Calif. Fuel-injection device for explosion engines. 1,786,946; Dec. 30.
Holek, Emanuel, assignor to the Firm Ceskoslovenska Zbrojovka Akciova Spolecnost V Brne, Brunn, Czechoslovakia. Firing mechanism for automatic firearms. 1,786,536; Dec. 30.
Holek, Václav, assignor to the Firm Ceskoslovenska Zbrojovka Akciova Spolecnost V Brne, Brunn, Czechoslovakia. Apparatus for filling magazines for self-loading firearms. 1,786,537; Dec. 30.
Hollenbeck, Caroline D., Sheridan, Wyo. Cap. 1,787,378; Dec. 30.
Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Bobbin for electrical feelers. 1,786,654; Dec. 30.
Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Bobbin support for weft-replenishing looms. 1,786,655; Dec. 30.
Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Connecting mechanism for jacquard levers. 1,786,656; Dec. 30.
Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Let-off for narrow ware looms. 1,786,657; Dec. 30.
Holmes, Ralph C., New York, N. Y., and F. T. Manley, Houston, Tex., assignors, by mesne assignments, to The Texas Company, New York, N. Y. Cracking oils. 1,786,947; Dec. 30.
Holtzer-Cabot Electric Company. (See Durbin, Vernon, assignor.)
Holtzman, John, New York, N. Y. Door lock. 1,787,272; Dec. 30.
Holzwarth Gas Turbine Co. (See Hofmann, Friedrich, assignor.)
Homberg, Felix, Barmen, Germany, assignor to American Nuplax Corporation, New York, N. Y. Manufacture from blood of a mass capable of being colored. 1,786,488; Dec. 30.
Hood Rubber Company. (See MacDonald, Frank J., assignor.)
Hookless Fastener Company. (See Aronson, Peter A., assignor.)
Hooper, James P., Ruxton, assignor to Wm. B. Hooper & Sons Company, Baltimore, Md. Swimming pool. 1,786,613; Dec. 30.
Hooper, Wm. E. & Sons Company. (See Hooper, James P., assignor.)
Hoover Company, The. (See White, Harry B., assignor.)

Hopkins, Arthur T., Detroit, Mich., assignor of one-half to R. C. Hupp, Birmingham, Mich. Hose coupling. 1,786,489; Dec. 30.
Hopwood, John M. (See Peebles, Thomas A., assignor.)
Hornsey, John W., New York, N. Y., assignor to Granular Iron Company. Reduction of metals from ores. 1,786,999; Dec. 30.
Hotchkiss, E. H., Company, The. (See Polzer, Fridolin, assignor.)
Hott, Ion V. K., assignor to The Joyce Cridland Company, Dayton, Ohio. Lifting device. 1,786,754; Dec. 30.
Hottinger, Adolph F., assignor to Northwestern Terra Cotta Company, Chicago, Ill. Terra cotta article. 1,786,753; Dec. 30.
Houts, John R., McLean, Va. Hinge-seat gauge. 1,787,313; Dec. 30.
Howard, Dudley B., Washington, D. C. Marksmanship-training device for firearms. 1,786,614; Dec. 30.
Howard, Forrest K., East Falls Church, Va. Combination mount for machine guns. 1,786,615; Dec. 30.
Howard, Reginald L., Roxbury, assignor to How-Mac, Inc., Dorchester, Mass. Window-pulley shield. 1,786,428; Dec. 30.
Howel, Clayton J. (See Repenning, A. E., and Howel.)
Howell, Albert S., assignor to The Bell & Howell Company, Chicago, Ill. Photographic device. 1,787,198; Dec. 30.
Howell, Alexander. (See Bensinger, James M., assignor.)
How-Mac, Inc. (See Howard, Reginald L., assignor.)
Hoxie, Charles A., Schenectady, N. Y., assignor to General Electric Company. Electrical transmission of pictures. 1,787,273; Dec. 30.
Hoyt, Robert C., Oakland, Calif. Automatic water-heater control valve. 1,786,948; Dec. 30.
Hudson Manufacturing Co. (See Kegler, Anton W., assignor.)
Hudson Motor Car Company. (See Groehn, Otto J., assignor.)
Huff, Wilbert J., D. L. Jacobson, and W. H. Hill, assignors to The Koppers Company, Pittsburgh, Pa. Stable alkaline ferric solution. 1,786,490; Dec. 30.
Huffman, William E., Dayton, Ohio. Inflation device. 1,787,153; Dec. 30.
Hughes, James W., assignor to Budd Wheel Company, Philadelphia, Pa. Cap nut. 1,787,154; Dec. 30.
Hughes, Thomas W., Rawlins, Wyo. Theft-preventing attachment for tanks. 1,787,250; Dec. 30.
Hughes, Walter J., Chicago, Ill. Thermostat-controlled fan. 1,787,041; Dec. 30.
Hull, Robert W., assignor to Rex Manufacturing Company, Connersville, Ind. Refrigerator cabinet. 1,787,379; Dec. 30.
Humphrey, Walter E., Kent, assignor, by mesne assignments, to The Akron Standard Mold Company, Akron, Ohio. Band-stretching machine. 1,787,423; Dec. 30.
Hunt, Alfred E., New Haven, Conn., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Index or file. 1,786,616; Dec. 30.
Hunt, Francis H., Leonia, N. J., assignor to Raymond Concrete Pile Company, New York, N. Y. Apparatus for driving hollow cylinders. 1,787,000; Dec. 30.
Hunt, Francis H., Los Angeles, Calif., and F. A. Schroeder, Rochelle Park, N. J., assignors to Raymond Concrete Pile Company, New York, N. Y. Excavating apparatus. 1,787,001; Dec. 30.
Hunt, Geo. L., Automotive Equipment Co. (See Hunt, George L., assignor.)
Hunt, George L., assignor to Geo. L. Hunt Automotive Equipment Co., Davenport, Iowa. Mechanism for operating upon metal parts of automobiles and the like. 1,786,847; Dec. 30.
Hunt, J. Harold, Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Disk-wheel mounting. 1,787,074; Dec. 30.
Hunt, J. Harold, Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Spoke-end-cap construction. 1,787,075; Dec. 30.
Hunter, Percy E., Pittsburgh, Pa. Pipe-thread protectors. 1,786,491; Dec. 30.
Huntoon, John S., Detroit, Mich., assignor to Massey Concrete Products Corporation, Chicago, Ill. Cribbing. 1,787,199; Dec. 30.
Huntoon, John S., Detroit, Mich., assignor to Massey Concrete Products Corporation, Chicago, Ill. Cribbing 1,787,200; Dec. 30.
Hupp, R. C. (See Hopkins, Arthur T., assignor.)
Hustvet, Jacob T., Lampson, Wis. Differential clutch. 1,786,492; Dec. 30.
Hutchings, Le Roi E., Buffalo, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Loose-leaf book. 1,786,617; Dec. 30.
Hutchison, Miller R., Llewelyn Park, West Orange, N. J., assignor to Premier Laboratory Company. Sound-propagating diaphragm. 1,786,949; Dec. 30.
Hutchison, Miller R., Llewelyn Park, West Orange, N. J., assignor, by mesne assignments, to Acoustic Products Company, New York, N. Y. Reenforced sounding board. 1,787,002; Dec. 30.
Hutchison, Miller R., Llewelyn Park, West Orange, N. J., assignor to Premier Laboratory Company. Sound-propagating diaphragm. 1,787,003; Dec. 30.
Huttinger, William R., Philadelphia, Pa. Actuating and controlling mechanism for electric switches. 1,787,314; Dec. 30.
Hynson, Westcott & Dunning, Inc. (See Harden, Wilton C., assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Bürgin, E., and Schmid, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Eller, W., and Madlung, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Fleischmann, H., and Jordan, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Kaufmann, H. P., and Schubert, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Loehr, Oskar, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Wohl, Alfred, assignor.)
Iden, Max, Altona, Germany. Pleasure buoy for seaside resorts. 1,786,658; Dec. 30.
Ilg Electric Ventilating Co. (See Wilson, John, assignor.)
Illinois Watch Case Company. (See Lyons, Daniel P., assignor.)
Imperial Chemical Industries Limited. (See Bramwell, Francis H., assignor.)
Ingersoll-Rand Company. (See Zimmermann, William F., assignor.)
Ingwer, Carl H., Elyria, Ohio. Motor vehicle. 1,787,155; Dec. 30.
International Cigar Machinery Company. (See Halstead, John F., assignor.)
International Combustion Engineering Corporation. (See Crane, J. B., and Marshall, assignors.)
International Combustion Engineering Corporation. (See Jackson, G. P., Toensfeldt, and Steele, assignors.)
International Combustion Engineering Corporation. (See Marshall, Leonard J., assignor.)
International Harvester Company. (See Beall, William L., assignor.)
International Harvester Company. (See Hodsdon, Floyd G., assignor.)
International Harvester Company. (See Johnston, E. A., Benjamin, Baker, and Hagen, assignors.)
International Harvester Company. (See Johnston, E. A., Merwin, and Watchek, assignors.)
International Harvester Company. (See London, Earl, assignor.)
International Harvester Company. (See Peterson, Walter R., assignor.)
International Harvester Company. (See Schoenrock, Otto R., assignor.)
International Time Recording Company of New York. (See Bryce, James W., assignor.)
Ipilcjian, Aram, Athens, Greece. Invalid bed. 1,787,380; Dec. 30.
Irizarry, Plinio, Santurce, P. R. Safety switch for motor-operated vehicles. 1,787,381; Dec. 30.
Ison, Edward W., Scarsdale, N. Y., and B. Phillips, East Chicago, Ind., assignors to Sinclair Refining Company, New York, N. Y. Refining hydrocarbons. 1,786,493; Dec. 30.
Jackson, George P., K. Toenafeldt, Flushing, N. Y., and H. Steele, Newark, N. J., assignors to International Combustion Engineering Corporation, New York, N. Y. Economizer. 1,786,909; Dec. 30.
Jacobs, Clifton N. (See Taylor, J. M., Jacobs, and Titus.)
Jacobson, David L. (See Huff, W. J., Jacobson, and Hill.)
Jaeger, Alphons O., Crafton, assignor to The Selden Company, Pittsburgh, Pa. Catalytic oxidation of anthracene. 1,786,950; Dec. 30.
James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, Rotary earth-drilling system. 1,786,755; Dec. 30.
James, Nephanus E., et al. (See Clayton, William F., assignor.)
James, William E., et al. (See Clayton, William F., assignor.)
Jancke, Benno F., Brooklyn, and J. E. Kelley, assignors to Eastern Laboratories, Inc., New York, N. Y. Hair drying and treating apparatus. 1,787,251; Dec. 30.
Jaroslaws Erste Glimmerwarenfabrik. (See Weiss, Valentin, assignor.)
Jefferson, Charles J., Springfield, Mass., assignor to J. Stevens Arms Company. Firearms. 1,787,004; Dec. 30.
Jefferson Electric Manufacturing Company. (See Daley, J. C., and Goddard, assignors.)
Jeffrey Manufacturing Company, The. (See Liggett, William K., assignor.)
Jennings, O. D., & Company. (See Jennings, Ode D., assignor.)
Jennings, Ode D., assignor to O. D. Jennings & Company, Chicago, Ill. Casing for a weighing and vending machine. Des. 82,943; Dec. 30.
Jennings, Victor H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-replenishing loom. 1,786,659; Dec. 30.
Joaquin, Nathan E., assignor of one-half to J. E. Stewart, Los Angeles, Calif. Steering stabilizer. 1,787,042; Dec. 30.
Johnson, Frank A., Felts Mills, N. Y., assignor of one-fourth to J. H. O'Connell, Springfield, Mass., one-fourth to J. D. Haskell, and one-fourth to Dilts Machine Works, Inc., Fulton, N. Y. Chemical-pulp paper-making process. 1,786,538; Dec. 30.
Johnson, Henry G., assignor to Summit Thread Company, East Hampton, Conn. Sewing machine shuttle bobbin. 1,786,618; Dec. 30.

Johnson, Joseph O., Coalinga, Calif. Well-capping device. 1,786,848; Dec. 30.
Johnson, Otis O., Moline, Ill. Trimmer. 1,786,849; Dec. 30.
Dec. 30.
Johnson, William A., Manchester, N. H., assignor to Woodbury Shoe Mfg. Co., Derry, N. H. Device for use in the manufacture of boots or shoes. 1,786,619; Dec. 30.
Johnston, Edward A., Chicago, B. R. Benjamin, Oak Park, D. B. Baker, and C. R. Hagen, Chicago, Ill., assignors to International Harvester Company. Cotton picker. 1,786,851; Dec. 30.
Johnston, Edward A., G. M. Merwin, and H. A. Watchek, Chicago, Ill., assignors to International Harvester Company. Ensilage harvester. 1,786,850; Dec. 30.
Johnston, Jordie J., Abilene, Tex. Apparatus for cleaning swimming pools. 1,787,274; Dec. 30.
Jones, Charles C., Phoenix, Ariz. Testing instrument for electrical condensers. 1,786,910; Dec. 30.
Jones, Everett, Lebanon, Ind. Vehicle signal. 1,787,382; Dec. 30.
Jones, Horatio D., Brooklyn, N. Y. Extension support for flexible electrical conductors. 1,787,252; Dec. 30.
Jones, Lester L., Oradell, N. J. Radio frequency amplifying System. Re17,915; Dec. 30.
Jones, Lester L., Oradell, N. J. Unicontrol apparatus for radio receiving sets. 1,787,275; Dec. 30.
Jones, Walter H., Hasbrouck Heights, N. J. Printed folder. 1,787,276; Dec. 30.
Jordan, Hans. (See Schoeller, W., and Jordan.)
Jordan, Otto. (See Fleischmann, H., and Jordan.)
Joyce-Cridland Company, The. (See Hott, Ion V. K., assignor.)
Jubilee Manufacturing Company. (See Gillet, Alexis F., assignor.)
Juelson, Edwin, Chicago, Ill. Vacuum cleaner. 1,786,756; Dec. 30.
Kahlisch, Gustav. (See Reiners, W., and Kahlisch.)
Kahn, Bertrand B., Cincinnati, assignor to The Estate Stove Company, Hamilton, Ohio. Door. 1,786,429; Dec. 30.
Kaier, Richard, Cranford, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Operating carburizing apparatus. 1,786,951; Dec. 30.
Kalgren, John E., assignor to J. R. Clark Company, Minneapolis, Minn. Riveted structure. 1,787,076; Dec. 30.
Karageorge, James, Chicago, Ill. Fan. Des. 82,944; Dec. 30.
Karagheusian, A. & M., Inc. (See Miller, Walter F., assignor.)
Karger, David, Milwaukee, Wis. Knitted cap and making the same. 1,787,043; Dec. 30.
Karmazin, John, Detroit, Mich. Radiator. 1,786,952; Dec. 30.
Kash, Wilhelm. (See Haanach, Oscar, assignor.)
Katow, Kitaro, Tokyo, Japan. Sash balance. 1,787,111; Dec. 30.
Kauffman, Leroy A., and W. Davis, Washington, D. C., assignors to W. Noble, Detroit, Mich. Hydraulic valve gear. 1,786,716; Dec. 30.
Kaufman, Adolph, Fairfield, Conn. Valve-lifting tool. 1,786,715; Dec. 30.
Kaufman, Phillip H., Cleveland Heights, Ohio. Book with page-ruling attachment therefor. 1,787,005; Dec. 30.
Kaufmann, Hans P., Jena, and M. Schubert, Fechenheim, near Frankfort-on-the-Main, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft. New compounds of the thiazolic series and making same. 1,787,315; Dec. 30.
Kaufmann, Hans P., Jena, and M. Schubert, Frankfort-on-the-Main-Fechendeim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. New compounds of the thiazolic series. 1,787,316; Dec. 30.
Kay Brunner Steel Products, Inc. (See Harrison, Arthur W., assignor.)
Kegler, Anton W., assignor to Hudson Manufacturing Co., Minneapolis, Minn. Sprayer. 1,786,431; Dec. 30.
Kégresse, Adolphe, Suresnes, France. Endless-track vehicle. 1,786,430; Dec. 30.
Kégresse, Adolphe, Courbevoie, France. Metal and rubber track belt. 1,786,539; Dec. 30.
Kehl, Eugene H. (See Olson, G., and Kehl.)
Kehling, Charles, Brooklyn, N. Y., assignor to American Machine & Foundry Company. Article feed for wrapping machines. 1,786,494; Dec. 30.
Kellett, William P., New York, N. Y. Adjustable spring jack for container railway cars. 1,786,495; Dec. 30.
Kellett, William P., New York, N. Y. Center jack for container cars. 1,786,620; Dec. 30.
Kelley Color Films, Inc. (See Kelley, William V. D., assignor.)
Kelley, John E. (See Jancke, B. F., and Kelley.)
Kelley, William V. D., Jersey City, N. J., assignor to Kelley Color Films, Inc. Combined black and white and colored image photography. 1,787,201; Dec. 30.
Kellogg Switchboard and Supply Company. (See Weiss, Alfred H., assignor.)
Kemlein, Richard, Berlin, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Coupling device. 1,787,203; Dec. 30.
Kendall, Oliver O., assignor to E. B. Hiatt, Denver, Colo. Adjustable fastener for fruit baskets. 1,787,202; Dec. 30.
Kennedy, Luke F., Philadelphia, Pa., assignor to General Electric Company. Protective arrangement. 1,787,277; Dec. 30.
Kenney, John J., Pittsburgh, Pa. Thermostat. 1,786,852; Dec. 30.
Keystone Steel & Wire Company. (See Bailey, Charles F., assignor.)
Kienzle Uhrenfabriken Aktiengesellschaft. (See Gehlen, Karl, assignor.)
Kimble Electric Company. (See Nies, John D., assignor.)
Kindel Furniture Company. (See Kindel, Thomas G., assignor.)
Kindel, Thomas G., Grand Rapids, Mich., assignor to Kindel Furniture Company. Bedpost or similar article. Des. 82,945; Dec. 30.
Kindl, Karl, Grafenhausen, near Neuenburg, assignor to E. G. Bek, Pforzheim, Germany. Machine for the production of mesh fabric and chains. 1,786,953; Dec. 30.
King, George A., assignor to Scovill Manufacturing Company, Waterbury, Conn. Double-pointed-pin fastener. 1,787,253; Dec. 30.
King, Randall A., Pueblo, Colo. Closet auger and stoppage grip. 1,787,112; Dec. 30.
Kingston, Thomas H., assignor to Builders' Patent Scaffolding Company, West Somerville, Mass. Putlog. 1,787,006; Dec. 30.
Kinnear, Eugene C., Evanston, Ill., assignor, by mesne assignments, to The Lake Erie Chemical Company, Cleveland, Ohio. Vault-wall-protecting device. 1,787,007; Dec. 30.
Kirk, George, North Providence, and A. C. Danver, Providence, R. I., said Kirk assignor to said Danver. Lubricating device. 1,786,432; Dec. 30.
Kirman, Herbert and G. R. Baker, Willesden, England, assignors to Baker Perkins Company, Inc., Saginaw, Mich. Conveying or delivering biscuits or like articles. 1,787,254; Dec. 30.
Klemm, Hans, assignor to the firm Koch & Sterzel Aktiengesellschaft, Dresden, Germany. Current transformer. 1,786,853; Dec. 30.
Klimek, Gustav A., East Rutherford, N. J., assignor to Turbine Patents Corporation, New York, N. Y. Power transmitter. 1,786,433; Dec. 30.
Klinck, John H. (See Carrington, M., and Klinck.)
Klocke, William H., Woodhaven, N. Y., assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Making sheet-metal bearings. 1,787,255; Dec. 30.
Klotz, Otto, Goppingen, Germany. Manufacture of transparent papers, particularly those used for the packing of edible articles. 1,786,911. Dec. 30.
Knauss, Calvin A. (See Gardner, H. A., and Knauss.)
Knowlton, Cutler D., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Forming material. 1,786,496; Dec. 30.
Koch & Sterzel Aktiengesellschaft. (See Klemm, Hans, assignor.)
Kohler, Paul, Pforzheim, Germany. Multicolor pencil. 1,786,434; Dec. 30.
Kokatnur, Vaman R. (See Stoddard, W. B., and Kokatnur.)
Kolstad, August M., Detroit, Mich. Hot-water and steam generator. 1,786,660; Dec. 30.
Komfala, Steve, Denver, Colo. Centrifugal pump. 1,786,435; Dec. 30.
Konoff, Alexander. (See Marcus, S., and Konoff.)
Koppers Company, The. (See Huff, W. J. Jacobson, and Hill, assignors.)
Koppers Company, The. (See Seil, Gilbert E., assignor.)
Kramer, Arthur E., and J. W. Platt, Waterville, Conn. Gas-valve lock. 1,786,954; Dec. 30.
Krantz, Hubert K., Rockville Center, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Switch mechanism. 1,786,757; Dec. 30.
Krentler-Arnold Hinge Last Company. (See Krentler, Walter A., assignor.)
Krentler, Walter A., assignor to Krentler-Arnold Hinge Last Company, Detroit, Mich. Last. 1,786,540; Dec. 30.
Krick, George W. and D. G. Anderson, Los Angeles, Calif. Table construction. 1,786,497; Dec. 30.
Krueger, Robert B., Lima, Ohio. Locomotive frame and engine supporting structure. 1,786,854; Dec. 30.
Kruse, Peter, assignor to E. W. Bliss Company, Brooklyn, N. Y. Apparatus for separating sheets. 1,787,077; Dec. 30.
Kutz, Walter G., Toledo, Ohio. Artificial bait. 1,786,568; Dec. 30.
Labus, Otto A., assignor, by mesne assignments, to National Carbonic Machinery Company, Wisconsin Rapids, Wis. Stuffing box. 1,787,317; Dec. 30.
Lacy, Jesse C., Richmond, Va. Portable signature conveyer. 1,787,383; Dec. 30.
Laird, James A., Huntington, assignor of ten per cent to R. A. Courtney, Lufkin, Tex. Cotton chopper. 1,786,661; Dec. 30.
Lake Erie Chemical Company, The. (See Anderson, H Miller, assignor.)
Lake Erie Chemical Company, The. (See Kinnear, Eugene C., assignor.)
Lamson Company, The. (See MacMartin, Frank W., assignor.)
Larson, Carl H., Elkhart, Ind., assignor to The Adlake Company. Signal lamp. 1,786,758; Dec. 30.
Larson, Elsie C., Nevada, Iowa. Collar and cuff. 1,787,113; Dec. 30.

Last, Erwin, Vienna, Austria. Device for the diathermic treatment of the human body. 1,786,541; Dec. 30.
Lantrup, George W., Yonkers, assignor to Otis Elevator Company, New York, N. Y. Motor-operated brake. 1,787,044; Dec. 30.
Lawlor, John J. (See Morris, T. O., and Lawlor.)
Lawson, John F., Brooklyn, N. Y. Electric welding. 1,786,759; Dec. 30.
Lawson, Oscar L., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Thead-measuring mechanism for shoe-sewing machines. 1,786,621; Dec. 30.
Lawson, Thomas M., Indianapolis, Ind. Used journal-box-waste cleaning machine. 1,787,156; Dec. 30.
Layer, Frank C., Algonquin, Ill. Brick-laying machine. 1,786,622; Dec. 30.
Lea, Charles, assignor to The Automatic Merchandizer Inc., Boston, Mass. Vending machine. 1,787,204; Dec. 30.
Leather, Felix J., London, England. Hood for automobiles and other vehicles. 1,786,662; Dec. 30.
Lee, Charles F., assignor of one-half to W. P. Griffiths, Philadelphia, Pa. Fabric. 1,786,569; Dec. 30.
Lee, Charles L. (See Short, C. B., and Lee.)
Leek, John W., Sale, England. Baby car or carriage. 1,786,663; Dec. 30.
Leffler, Ralph H., Batavia, Ill. Electrostatic reproducer. 1,786,436; Dec. 30.
Lehman, Paul W., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Automatic tube-dusting device. 1,786,437; Dec. 30.
Lehrecke, Hans, Frankfort-on-the-Main, Germany, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Warning means for poison gases. 1,786,623; Dec. 30.
Leighton, Eugene R., assignor to J. E. Leighton, North Andover, Mass. Bottle capper. 1,786,760; Dec. 30.
Leighton, Jennie E. (See Leighton, Eugene R., assignor.)
Lelean, William A., Eltham, London, and D. C. Brown, Kenton, England. Nut-locking device. 1,787,114; Dec. 30.
Leonard, Joseph E., Berkeley, Calif. Gas heater. Des. 82,946; Dec. 30.
Leveque, Bernard T., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Horn for shoe-sewing machines. 1,786,624; Dec. 30.
Leveque, Bernard T., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Feed mechanism for sewing machines. 1,787,157; Dec. 30.
Lewis, Fred J., assignor to McLoughlin Manufacturing Company, Indianapolis, Ind. Undergarment. 1,787,045; Dec. 30.
Lewis, George S., Oak Park, Ill. Welding machine. 1,787,115; Dec. 30.
Lewis, Richard W., Montclair, N. J. Dispersion and making the same. 1,787,418; Dec. 30.
Lewis, Samuel A., assignor of forty-seven one-hundredths to R. H. Barker, Derry, N. H., and G. W. Barker, Rochester, N. Y. Shoe-sole skiver. 1,787,384; Dec. 30.
Libbey-Owens-Ford Glass Company. (See Miller, Otto C., assignor.)
Liebergeld, Paul, Bad Thal, Germany. Mechanical time fuse with clockwork. 1,786,664; Dec. 30.
Liebknecht, Otto, Berlin-Grunewald, Germany, assignor to The Permutit Company, New York, N. Y. Increasing base-exchanging properties. 1,787,008; Dec. 30.
Liggett, William K., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Portable unloading machine. 1,786,665; Dec. 30.
Lilly, Eli, and Company. (See Stuart, Elmer H., assignor.)
Lima, David O., Oklahoma City, Okla. Specific-gravity balance. 1,787,256; Dec. 30.
Lindemann-Hoverson, A. J., Company. (See Rutenber, Edwin A., assignor.)
Linderman, Bert A., New York, N. Y., assignor to Linderman & Company, Wilmington, Del. Fluid-pressure brake. 1,786,438; Dec. 30.
Linderman & Company. (See Linderman, Bert A., assignor.)
Lindstrom, Linn O. B., and D. G. Sala, San Francisco, Calif. Electric pruning device. 1,786,625; Dec. 30.
Link-Belt Company. (See Dull, Raymond W., assignor.)
Linnemans, William J., Big Rapids, Mich. Stand lamp or analogous article. Des. 82,947; Dec. 30.
Linzell, Leslie, London, and T. Ewart Phythian, Leeds, England, assignors, by mesne assignments, to Lithoprintex Corporation. Machine for transferring designs on to cylindrical surfaces. 1,786,570; Dec. 30.
Liquori, Celeste A., assignor of one-half to E. F. Liquori, New York, N. Y. Can opener. 1,787,046; Dec. 30.
Liquori, Ernest F. (See Liquori, Celeste A., assignor.)
Lister, R. A., & Company. (See Sanders, Arthur F., assignor.)
Lithoprintex Corporation. (See Linzell, L., and Phythian, assignors.)
Little, John Q., Whittier, Calif. Casing shoe and valve. 1,786,761; Dec. 30.
Little, William T., Westfield, N. J. Producing sodium stannate. 1,787,078; Dec. 30.
Livingston, Sam E., Bloomington, Ill. Combination hanger. Des. 82,948; Dec. 30.
Llewellyn, Frederick T. (See Edwards, J. H., Llewellyn, and Marble.)
Lochr, Oskar, Uerdingen, Nierderrhein, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of alcohols. 1,787,205; Dec. 30.
Loetscher, Emil C., Dubuque, Iowa. Pulp-filtering machine. 1,787,047; Dec. 30.
Lohaus, Otto, assignor to Aktiengesellschaft Mix and Genest, Berlin-Schoneberg, Germany. Indicating current impulses. 1,786,666; Dec. 30.
Lohman, Ralph W., Los Angeles, Calif. Method and apparatus for feeding gases or vapors. 1,786,626; Dec. 30.
London, Earl, Chapman Ranch, Tex., assignor to International Harvester Company. Traction wheel. 1,786,855; Dec. 30.
Lonsdale, William, Roselle Park, N. J., assignor to Foster Wheeler Corporation, New York, N. Y. Making heat-exchanger tubes. 1,786,571; Dec. 30.
Lorenz, C., Aktiengesellschaft. (See Kemlein, Richard, assignor.)
Lum, Walter O., Schenectady, N. Y., assignor to General Electric Company. Electric-motor-control system. 1,787,278; Dec. 30.
Lund, Dagne A., administratrix. (See Foresman, Clarence A.)
Lurie, Michail J., and A. P. Woroshilow, Moscow, Union of Socialist Soviet Republics. Salt drier. 1,787,009; Dec. 30.
Lykken, Henry G., Minneapolis, Minn. Pulverized-material segregator. 1,787,079; Dec. 30.
Lyle, John, Philadelphia, Pa., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Clutch for Axminster-loom tube frames. 1,786,667; Dec. 30.
Lyons, Daniel P., assignor to Illinois Watch Case Company, Elgin, Ill. Watchcase. 1,786,762; Dec. 30.
Lyons, George W., Hayden, Colo. Controlling means for airplanes. 1,786,668; Dec. 30.
MacDonald, Frank J., Newton, Mass., assignor, by mesne assignments, to Hood Rubber Company, Inc., Wilmington, Del. Machine for cutting articles from sheet material. 1,786,542; Dec. 30.
Mack, Perry E., assignor to Briggs and Stratton Corporation, Milwaukee, Wis. Engine starter. 1,786,763; Dec. 30.
MacMartin, Frank W., assignor to The Lamson Company, Syracuse, N. Y. Carrier for dispatch systems. 1,787,206; Dec. 30.
MacMullin, Robert B., and M. C. Taylor, Niagara Falls, assignors to The Mathieson Alkali Works, Inc., New York, N. Y. Hypochloride composition. 1,787,048; Dec. 30.
MacMullin, Robert B., and M. C. Taylor, Niagara Falls, assignors to The Mathieson Alkali Works, Inc., New York, N. Y. Producing new hypochlorite composition. 1,787,080; Dec. 30.
Madden, Edward J., Detroit, Mich. Vehicle brake. 1,786,856; Dec. 30.
Madden, Edward J., Detroit, Mich. Vehicle brake. 1,786,912; Dec. 30.
Madlung, Totila. (See Eller, W., and Madlung.)
Mageoch, Harry Y., assignor to Electric Service Supplies Company, Philadelphia, Pa. Lighting unit. 1,787,279; Dec. 30.
Magnet-Werk G. m. b. H. Eisenach Spezialfabrik fur Elektromagnet-Apparate. (See Wittkuhns, Bruno, assignor.)
Mahr, Julius A., Minneapolis, Minn. Wheel and wheel journal. 1,786,764; Dec. 30.
Maier, firm of Gustav. (See März, Cuno, assignor.)
Maier, Karl, assignor to Union Special Machinenfabrik G. m. b. H., Stuttgart, Germany. Friction-clutch driving mechanism. 1,786,955; Dec. 30.
Mallory, Bonnie L., Cleveland Heights, assignor to The Cleveland Shock Absorber Company, Cleveland, Ohio. Shock absorber. 1,786,956; Dec. 30.
Maly, Hermann, Guben, Germany. Treating dry webs of woven material. 1,787,385; Dec. 30.
Manley, Frederick T. (See Holmes, R. C., and Manley.)
Manning, Fred W., Berkeley, Calif., assignor, by mesne assignments, to Filter Fabrics, Inc., Boston, Mass. Process of and apparatus for the dry disintegration and deposition of fibers. 1,786,669; Dec. 30.
Mantle Lamp Company of America, The. (See Rohl, Erich H., assignor.)
Marasso, Fred, Joliet, Ill. Semiautomatic wrapping-machine. 1,787,116; Dec. 30.
Marble, Robert A. (See Edwards, J. H., Llewellyn, and Marble.)
Marbury, Ralph E., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Terminal structure. 1,786,765; Dec. 30.
Marcus, Samuel, Riverdale, assignor to Markon Manufacturing Co., Inc., New York, N. Y. Doll eyes. 1,786,572; Dec. 30.
Marcus, Samuel, New York, and A. Konoff, Brooklyn, assignors to Markon Manufacturing Co., Inc., New York, N. Y. Mouth equipment for dolls' heads. 1,787,207; Dec. 30.
Marcy Foundry Co. (See Hauser, Emil, assignor.)
Markon Manufacturing Co. (See Marcus, Samuel, assignor.)
Markon Manufacturing Co. (See Marcus, S., and Konoff, assignors.)
Markon Manufacturing Co. (See Wilhelm, John H., assignor.)

Marks, Herbert E., Glen Osborne, Sewickley, Pa., assignor to United States Gypsum Company, Chicago, Ill. Floor construction. 1,787,049; Dec. 30.
Maroney, Frank V., Orange, Calif. Drapery support. 1,786,498; Dec. 30.
Marshall, John F., Hayling Island, England. Apparatus for use in making graphic reproductions of images projected from a microscope. 1,786,543; Dec. 30.
Marshall, Leonard J. (See Crane, J. B., and Marshall.)
Marshall, Leonard J., Westwood, N. J., assignor to International Combustion Engineering Corporation, New York, N. Y. Bent-tube boiler. 1,786,913; Dec. 30.
Martin, Mark H., Baltimore, Md., assignor to The Symington Company, New York, N. Y. Draft member. 1,786,914; Dec. 30.
Marty, Albert H., Cleveland, Ohio. Mounting for glass windows or the like. 1,787,386; Dec. 30.
Maryland Air Conditioning Corporation. (See Cano, Vernon, assignor.)
März, Cuno, assignor to the firm of Gustav Maier, Schramberg, Germany. Paper-sorting device. 1,787,387; Dec. 30.
Maserang, John B., Belleville, Ill. Fence-post connection. 1,786,573; Dec. 30.
Massey Concrete Products Corporation. (See Huntoon, John S., assignor.)
Master Woodworker Mfg. Co. (See Fisk, William T., assignor.)
Matthews, Clyde L., Haynesville, La. Hoisting hook. 1,787,318; Dec. 30.
Matthews, H. A., Manufacturing Company, The. (See Boesel, Otto A., assignor.)
Matthews, H. A., Manufacturing Company, The. (See Naylor, Henry R., assignor.)
Mathieson Alkali Works, Inc., The. (See MacMullin, R. B., and Taylor, assignors.)
Maxson, Rolland H., assignor to The Burdick Corporation, Milton, Wis. Radiant-energy-generating unit. 1,786,439; Dec. 30.
Maynard, Charles E., Northampton, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tube-splicing press. 1,786,440; Dec. 30.
Maynard, Charles E., Northampton, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Press for tread splices. 1,786,499; Dec. 30.
McAdams, Harry, Philadelphia, Pa. Yarn-sinking apparatus for knitting machines. 1,787,010; Dec. 30.
McBride, James A., assignor to Thomas McBride Glass Works, Inc., Salem, W. Va. Drawer pull. Des. 82,949; Dec. 30.
McBride, Thomas, Glass Works, Inc. (See McBride, James A., assignor.)
McCaskey Register Company, The. (See Dunning, William E., assignor.)
McClatchie, John M., assignor to The Borden Company, New York, N. Y. Machine for closing and sealing cans. 1,787,050; Dec. 30.
McCullough, Frederick S., Wilkinsburg, Pa., Vacuum-tube making. 1,787,082; Dec. 30.
McDonald, William L., Pensacola, Fla. Power steering mechanism. 1,787,319; Dec. 30.
McGee, Rupert E., Tampa, Fla., assignor of one-half to I. M. Tracy. Direction signal light. Des. 82,950; Dec. 30.
McGonigal, Mary M., Gannett, Idaho. Sanitary milk strainer. 1,786,500; Dec. 30.
McGuire, Frank J. (See Friede, S. M., and McGuire.)
McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Yarn-tension device. 1,787,083; Dec. 30.
McLean, Clarence G., Boston, Mass. Light-reflecting device. 1,787,388; Dec. 30.
McLean, David W., Los Angeles, Calif. Dental apparatus. 1,786,915; Dec. 30.
McLellan, Joseph R., Wichita, Kans. Incinerator. 1,787,081; Dec. 30.
McLoughlin Manufacturing Company. (See Lewis, Fred J., assignor.)
McMillan Book Company. (See McMillan, John L., assignor.)
McMillan, John L., assignor to McMillan Book Company, Syracuse, N. Y. Visible-index binder. 1,786,857; Dec. 30.
McNulty, Thomas E., Alameda, Calif. Guide for venetian blinds. 1,787,158; Dec. 30.
Mead Pulp & Paper Company, The. (See Traquair, John, assignor.)
Meadows, Albert. (See Sherman, A. G., and Meadows.)
Meeks, Asa. (See Byrum, J. R., Russell, and Meeks.)
Meijer, Reinier, Voorschoten, assignor to De Bataafsche Petroleum Maatschappij, The Hague, Netherlands. Liquid-delivering apparatus. 1,787,389; Dec. 30.
Meister, Georges, New York, N. Y. Submarine life-saving device. 1,786,627; Dec. 30.
Mellon, James A., assignor to American Engineering Company, Philadelphia, Pa. Electric steering device. 1,787,320; Dec. 30.
Merrell, Irving S., and H. Schibsted, Syracuse, assignors, my mesne assignments, to Merrell-Soule Company, Inc., New York, N. Y. Treatment of milk powder. 1,786,858; Dec. 30.
Merrell-Soule Company. (See Merrell, I. S., and Schibsted, assignors.)
Merrillee, Floy C., Chicago, Ill. Wearing apparel. 1,787,117; Dec. 30.
Merrill Company, The. (See Bryan, Russell R., assignor.)
Merrill, Hamilton, South Orange, N. J., assignor to Tower Manufacturing Co.,Inc. Manufacture of para-nitraniline. 1,786,766; Dec. 30.
Merrill, Leland F., Oakland, Calif. Sound-source-locating means. 1,786,859; Dec. 30.
Merritt, Benjamin C., Shrewsbury, Mass. Balloon spinner. 1,787,159; Dec. 30.
Merté, Willy, assignor to the firm of Carl Zeiss, Jena, Germany. Objective corrected spherically, chromatically, astigmatically, and for coma. 1,786,916; Dec. 30.
Merwin, George M. (See Johnston, E. A., Merwin, and Watchek.)
Messinger, Ralph M., Toledo, Ohio. Combined display and vending case. Des. 82,951; Dec. 30.
Meuer, George J., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electrical-plug receptacle. 1,787,084; Dec. 30.
Michael, Gus F., assignor to Bendix Brake Company, South Bend, Ind. Brake control. 1,786,670; Dec. 30.
Michell, Anthony G. M., Melbourne, Australia. Viscometer. 1,786,574; Dec. 30.
Midgley, Thomas, Jr., and C. A. Hochwalt, Dayton, Ohio, assignors to General Motors Research Corporation, Detroit, Mich. Removing carbon deposits from cylinders. 1,786,860; Dec. 30.
Midgley, Thomas, jr., Dayton, Ohio, assignor, by mesne assignors to General Motors Research Corporation, Mich. Using motor fuels. 1,787,419; Dec. 30.
Mikaelson, Erik W., assignor to Treadwell Engineering Company, Easton, Pa. Conveyer table. 1,786,575; Dec. 30.
Mill Device Company. (See Byrd, Britton E., assignor.)
Miller, Ernest B., and W. H. Gabeler, Baltimore, Md. Combination refrigerating and water-heating unit. 1,786,861; Dec. 30.
Miller, Frederic H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator. 1,786,767; Dec. 30.
Miller, George W., Sapulpa, Okla. Latch. 1,787,390; Dec. 30.
Miller, Harry G., Denver, Colo. Commutator turning lathe. 1,786,442; Dec. 30.
Miller, Otto C., Charleston, W. Va., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Process and apparatus for producing sheet glass. 1,787,391; Dec. 30.
Miller, Walter F., Freehold, N. J., assignor to A. & M. Karagheusian, Inc., New York, N. Y. Pile fabric. 1,787,051; Dec. 30.
Mills, Bert E., Oak Park, assignor to Mills Novelty Company, Chicago, Ill. Change-key switch for music-reproducing machines. 1,786,441; Dec. 30.
Mills Novelty Company. (See Mills, Bert E., assignor.)
Mills Novelty Company. (See Walker, Harry, assignor.)
Moberg, Arthur R., Minneapolis, Minn., assignor to F. O. Paige, jr., Hammond, Ind. Water softening and purification. 1,786,501; Dec. 30.
Monogram Lens Corporation. (See Arbuckle, Samuel F., assignor.)
Montoya, Benito, Los Angeles, Calif. Lubricator filler. 1,787,011; Dec. 30.
Moomaw, Curtis H., Springfield, Mo. Poultry roost. 1,786,443; Dec. 30.
Moore, Edgar D. (See Dippman, F. R., and Moore.)
Moore, Edgar D., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley-pole base. 1,787,012; Dec. 30.
Moore, Edgar D., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley pole. 1,787,013; Dec. 30.
Moore, Edgar D., and F. R. Dippman, assignors to The Ohio Brass Company, Mansfield, Ohio. Current-collec- 1,786,717; Dec. 30.
Moore, Edgar D., and F. R. Dippman, assignors to The Ohio Brass Company, Mansfield, Ohio. Current-collector support. 1,786,718; Dec. 30.
Moore, Edgar D., and F. R. Dippman, assignors to The Ohio Brass Company, Mansfield, Ohio, Current-collector support. 1,786,720; Dec. 30.
Moore, Frank W. (See Harty, W. A., and Moore.)
Moore, George L., assignor to Alemite Corporation, Chicago, Ill. Making lubricant-receiving fittings. 1,787,257; Dec. 30.
Moore, William R., jr., Hagerstown, Md., assignor to Deca-Disc Phonograph Company, Waynesboro, Pa. Remote control for talking machines. 1,787,392; Dec. 30.
Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Instrument board light. 1,786,768; Dec. 30.
Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Clutch brake for motor vehicles. 1,787,160; Dec. 30.
Moorman Manufacturing Company. (See Pfeiffer, Grover F., assignor.)
Morel, Emile, Domene, France. Magneto-electric machine for the generation of monophase current. 1,787,014; Dec. 30.
Morgan, Sarah F., Poughkeepsie, N. Y. Maternity supporter. 1,786,544; Dec. 30.
Morrell, Alfred F., assignor to Crampton & Knowles Loom Works, Worcester, Mass. Thread holder for weft-replenishing looms. 1,786,671; Dec. 30.

Morris, Evan B., deceased, Cedar Bluffs, Nebr., M. L. Morris, administratrix. Farrowing house. 1,786,769; Dec. 30.
Morris, Joseph P., Bridgeport, Conn. Machine for cutting bias fabrics. 1,787,208; Dec. 30.
Morris, Mary L., administratrix. (See Morris, Evan B.)
Morris, Thomas O., Easton, Pa., and J. J. Lawlor, Plainfield, N. J., assignors to Automatic Molding Machine Corporation, Dover, Del. Molding machine. 1,786,672; Dec. 30.
Morrison, Simon, New York, N. Y. Vanity case. Des. 82,964; Dec. 30.
Motor Wheel Corporation. (See Van Halteren, Andrew S., assignor.)
Mouthe, Auguste, assignor to F. Damon, Lyon, France. Varicose stocking. 1,786,862; Dec. 30.
Muehlen, Otto, Denver, Colo. Treating mill-band saws. 1,786,444; Dec. 30.
Mueller, Elmer J. J., Jefferson Barracks, Mo. Poultry-drinking fountain. 1,787,015; Dec. 30.
Mueller, Homer L., Lakewood, assignor, by mesne assignments, to The Cleveland Welding Company, Cleveland, Ohio. Bridging ring for cushion-tire bases. 1,786,957; Dec. 30.
Muffly, Glenn, Detroit, Mich., assignor to Copeland Products Inc. Refrigerator control. 1,787,209; Dec. 30.
Mungen, Donald D., and R. Back, assignor to The Wahl Company, Chicago, Ill. Fountain pen. 1,787,406; Dec. 30.
Munsingwear Corporation, The. (See Rutledge, George E., assignor.)
Munson, John M. (See Becker, L. A., and Munson.)
Murray, Pendleton W., Omaha, Nebr. Radiator. 1,787,118; Dec. 30.
Myers, William L., St. Louis, Mo. Self-cleaning rake. 1,786,770; Dec. 30.
Naamlooze Vennootschap Nederlandsche Gruyère-Blokmelk Fabriek. (See Born, Philipp, assignor.)
Nagel, Henry W., Alliance, assignor to The Colonial Iron Works Company, Cleveland, Ohio. Drier for sand and the like. 1,787,280; Dec. 30.
Nash, Benjamin S., Short Hills, N. J., assignor to The Stearns & Foster Company, Lockland, Ohio. Textile fabric. Des. 82,952; Dec. 30.
National Aniline & Chemical Co. (See Wait, Justin F., assignor.)
National Carbon Company. (See Hendry, William F., assignor.)
National Carbonic Machinery Company. (See Labus, Otto A., assignor.)
National Cash Register Company. (See Goldberg, Maximilian M., assignor.)
National Cash Register Company, The. (See Robertson, William H., assignor.)
National Cash Register Company, The. (See Shipley, Bernis M., assignor.)
National Fireproofing Corporation. (See Christie, Llewellyn M., assignor.)
National Pneumatic Company. (See Paul, Abram F., assignor.)
National Sales and Manufacturing Company. (See Thompson, Elmer B., assignor.)
Natkiel, Harry, assignor to The Rieser Company, Inc., New York, N. Y. Bob holder. 1,787,393; Dec. 30.
Naylor, Henry R., assignor to The H. A. Matthews Manufacturing Company, Seymour, Conn. Phonograph bezel. 1,786,445; Dec. 30.
Neighbour, Leonard B., and F. A. Thomann, East Moline, assignors to Deere & Company, Moline, Ill. Method of and apparatus for handling beets. 1,787,161; Dec. 30.
Nelson, Arthur F., Harrisburg, Pa. Change maker. 1,787,085; Dec. 30.
Nelson, Harry T., Dallas, Tex. Helicopter. 1,786,576; Dec. 30.
New, Gustave A., assignor to American Gypsum Company, Port Clinton, Ohio. Stucco mix and making the same. 1,787,162; Dec. 30.
New, Gustave A., assignor to American Gypsum Company, Port Clinton, Ohio. Gypsum wall board. 1,787,163; Dec. 30.
New Jersey Machine Corporation. (See Feybusch, Martin, signor.)
Newport Company, The. (See Gubelmann, I. Goodrich, and Dettwyler, assignors.)
Newport Company, The. (See Palmer, Robert C., assignor.)
New York Air Brake Company, The. (See Bickel, Henry F., assignor.)
Nicholay, Paul, assignor of one-half to C. W. Attwood, Wayne, Mich. Securing electric barriers and the like. 1,786,446; Dec. 30.
Niedecken, Edward F., Milwaukee, Wis. Drain connection. 1,786,771; Dec. 30.
Nies, John D., assignor to Kimble Electric Company, Chicago, Ill. Motor-control means. 1,786,772; Dec. 30.
Noble, Warren. (See Kauffman, L. A., and Davis, assignor.)
Noble, Warren, Detroit, Mich. Piston. 1,787,119; Dec. 30.
Noble, Warren, Detroit, Mich. Hydraulic valve-operating mechanism. 1,787,120; Dec. 30.
Noeggerath, Jacob E., Berlin, Germany. Aeroplane for horizontal and vertical flight. 1,786,545; Dec. 30.
Nolde and Horst Company, The. (See Floyd, Earl T., assignor.)
North, Clayton O., Nitro, W. Va., assignor to The Rubber Service Laboratories Co., Akron, Ohio. Composition for use in the manufacture of rubber and the like. 1,787,258; Dec. 30.
Northwestern Terra Cotta Company. (See Hottinger, Adolph F., assignor.)
Norwood, Harry G., Baltimore, Md., assignor to Positive Lock Washer Company, Newark, N. J. Spring nut-lock washer. 1,786,502; Dec. 30.
Norwood, Harry G., Baltimore, Md., assignor to Positive Lock Washer Company, Newark, N. J. Spring nut-lock washer. 1,786,503; Dec. 30.
Nyquist, Harry, Millburn, N. J., assignor to American Telephone and Telegraph Company. Power-standard device. 1,786,546; Dec. 30.
Nyrose, Gust J., Claresholm, Alberta, Canada. Keyless catch and combination lock. 1,786,447; Dec. 30.
O'Connell, John H., et al. (See Johnson, Frank A., assignor.)
Odell, Aubrey D. (See Reed, T. C., and Odell.)
Odom, Nicholas A. B., San Antonio, Tex. Internal-combustion engine. 1,787,121; Dec. 30.
Oehmichen, Etienne, Valentigney, France. Device for the automatic adjustment of the tensions of films. 1,786,917; Dec. 30.
Oestnaes, Victor L., Westfield, assignor to American Gas-accumulator Company, Elizabeth, N. J. Traffic-signal reflector. 1,786,958; Dec. 30.
Ogle Construction Company. (See Bledsoe, Carl F., assignor.)
Ohio Brass Company, The. (See Austin, Arthur O., assignor.)
Ohio Brass Company, The. (See Dippman, F. R., and Moore, assignors.)
Ohio Brass Company, The. (See Moore, Edgar D., assignor.)
Ohio Brass Company, The. (See Moore, E. D., and Dippman, assignors.)
Ohio Steel Foundry Company, The. (See Harbison, Clarence B., assignor.)
Ohnstrand, Enoch, Mohawk, assignor, by mesne assignments to Remington Rand Inc., New York, N. Y. Card-record desk. 1,786,628; Dec. 30.
O'Keeffe, George W., Milton, assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass.. Push-button electric switch and cover plate therefor. 1,787,210; Dec. 30.
Olson, Gunner, and E. H. Kehl, Chicago, Ill. Secondary water heater. 1,786,547; Dec. 30.
Opel, William G., McKeesport, Pa. Gear-wheel puller. 1,787,016; Dec. 30.
Orange-Crush Company. (See Repenning, A. E., and Howel, assignors.)
Orr, Elijah C., assignor to Orr Saw Tooth Grinder Co., Seattle, Wash. Inserted tooth for saws. 1,786,959; Dec. 30.
Orr, Matthew, Dillon, Mont. Airplane wing. 1,787,321; Dec. 30.
Orr Saw Tooth Grinder Co. (See Orr, Elijah C., assignor.)
Oswego Falls Corporation. (See Wright, Wilbur L., assignor.)
Otis Elevator Company. (See Lautrup, George W., assignor.)
Outboard Motors Corporation. (See Evinrude, Ole, assignor.)
Owens-Illinois Glass Company. (See Fuerst, Edwin W., signor.)
Oxford Varnish Corporation. (See Casto, Lloyd V., assignor.)
Packard Motor Car Company. (See Christman, John M., assignor.)
Packard Motor Car Company. (See Moorhouse, Alfred, assignor.)
Packard Motor Car Company. (See Roberts, Edward F., assignor.)
Paige, Fred O., Jr. (See Moberg, Arthur R., assignor.)
Palace Poultry Car Company. (See Edgerton, Israel V., assignor.)
Palmer, Ernest E., Toronto, Ontario, Canada, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Paper or like sheet-folding machine. 1,786,773; Dec. 30.
Palmer, Robert C., Pensacola, Fla., assignor to The Newport Company, Carrollville, Wis. Treating rosin and product therefrom. 1,787,281; Dec. 30.
Paradise, Mable B., Atchison, Kans. All-weather double-service wrap. 1,786,960; Dec. 30.
Parkin, Henry W., assignor of one-half to H. J. Gunderson, Los Angeles, Calif. Pumping jack. 1,787,164; Dec. 30.
Parrish, Donald E., Buffalo, N. Y. Booklet label. 1,786,504; Dec. 30.
Parsons, Carl B., assignor to The Parsons Company, Detroit, Mich. Loading block. 1,786,774; Dec. 30.
Parsons Company, The. (See Parsons, Carl B., assignor.)
Parsons, Sylvanus H. H., Coscob, Conn., assignor to Jacob Ruppert Schalk, Poughkeepsie, N. Y. Demountable sheave bearing. 1,786,741; Dec. 30.
Paterson, Alexander, Buffalo, N. Y. Reduction of metal by rolling mills. 1,786,775; Dec. 30.

Paul, Abram F., Upper Darby Branch, Philadelphia, Pa., assignor to National Pneumatic Company, New York, N. Y. Door-strap clamp. 1,787,017; Dec. 30.
Pavlik, Mike, jr., et al. (See Simmons, William J., sr., assignor.)
Payne, James M., jr., Dunbar, W. Va., assignor to F. W. Woolworth Company. Tumbler. Des. 82,953; Dec. 30.
Payne, James M., jr., Dunbar, W. Va., assignor to F. W. Woolworth Company. Tumbler. Des. 82,954; Dec. 30.
Payne, Oscar V., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Withdrawing feeler. 1,786,673; Dec. 30.
Payne, Walter B. (See Bohrer, R. E., Payne, and Tiefel.)
Payne, Walter B., R. E. Bohrer, and W. Fuhlborn, assignors to The Todd Company Inc., Rochester, N. Y. Calculating machine. 1,787,259; Dec. 30.
Peale-Davis Company. (See Davis, Kenneth, assignor.)
Pebbles, Louise W., Hawthorne, N. J. Garment stretcher. 1,787,165; Dec. 30.
Peebles, Thomas A., Mount Lebanon, assignor to J. M. Hopwood, Dormont, Pa. Combustion-control apparatus. 1,787,407; Dec. 30.
Pelizman, Clarence F., Dallas County, Iowa. Valve for maintaining constant liquid height in tanks. 1,787,420; Dec. 30.
Pelton, George M., assignor to The Filer & Stowell Company, Milwaukee, Wis. Setwork. 1,786,776; Dec. 30.
Penberthy Injector Company. (See Yoder, Howard D., assignor.)
Pengilly, Joseph H., and V. Brown, assignors to Diamond Electrical Manufacturing Company, Ltd., Los Angeles, Calif. Plugging device. 1,787,260; Dec. 30.
Pennsylvania Crusher Company. (See Borton, George W., assignor.)
Penrod Walnut and Veneer Company. (See Stone, John S., assignor.)
Pentler, Sigmund J., and O. R. Short, Wausau, Wis. Skiving machine. 1,787,052; Dec. 30.
Pepper, David, Philadelphia, Pa. Casting machine for battery grids. 1,786,629; Dec. 30.
Permutit Company, The. (See Liebknecht, Otto, assignor.)
Perry, Fred D., assignor to H. R. French, East Bakersfield, Calif. Pocket-comb clip. 1,786,674; Dec. 30.
Peters, Peter N., Brooklyn, N. Y. Snubber. 1,787,282; Dec. 30.
Peterson, Walter R., Park Ridge, Ill., assignor to International Harvester Company. Disk harrow. 1,786,863; Dec. 30.
Petrosky, George E., Philadelphia, Pa. Vent for storage batteries. 1,786,961; Dec. 30.
Pew, Arthur E., jr., Bryn Mawr, assignor to Sun Oil Company, Philadelphia, Pa. Heat interchanger. 1,787,086; Dec. 30.
Pfeiffer, Grover F., assignor to Moorman Manufacturing Company, Quincy, Ill. Feeder. 1,786,777; Dec. 30.
Pfeiffer, Gustavus A., New York, N. Y. Multiple-compartment container. 1,787,283; Dec. 30.
Phillips-Baker Rubber Company. (See Dempsey, E. J., and Costellow, assignors.)
Phillips, Ellis J. G., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Folding partition. 1,786,505; Dec. 30.
Phillips, Ernest B. (See Ison, E. W., and Phillips.)
Phythian, Thomas E. (See Linzell, L., and Phythian.)
Pickup, George E., assignor to The Wehrle Company, Newark, Ohio. Heating stove. Des. 82,955; Dec. 30.
Pierce, Earl F., Winnetka, and D. H. Sweet, Evanston, assignors to Alemite Corporation, Chicago, Ill. Pressure-lubricating system. 1,786,548; Dec. 30.
Pierce, Raymond T., Milburn, N. J., assignor to Westinghouse Electric & Manufacturing Company. Switch mechanism. 1,786,778; Dec. 30.
Pietronigro, Alfonso, Ozone Park, N. Y. Sash window. 1,787,284; Dec. 30.
Pilot Laboratory, Inc. (See Stoddard, W. B., and Kokatnur, assignors.)
Plane-Speaker Corporation. (See Coburn, James M., assignor.)
Platt, John W. (See Kramer, A. E., and Platt.)
Polzer, Fridolin, South Norwalk, assignor to The E. H. Hotchkiss Company, Norwalk, Conn. Clinching means for stapling machines. 1,787,285; Dec. 30.
Pomerantz, Samuel L., Brooklyn, N. Y. Advertising powder-puff display stand. Des. 82,956; Dec. 30.
Porz, George V. (See Porz, Norman P., assignor.)
Porz, Norman P., assignor of one-half to G. V. Porz, Cleveland, Ohio. Removing bottle caps. 1,787,018; Dec. 30.
Positive Lock Washer Company. (See Norwood, Harry G., assignor.)
Pospiech, Friedrich, assignor to Chemische Fabrik Pott & Co., Dresden, Germany. Condensation product of aromatic sulphonic acids. 1,787,408; Dec. 30.
Powers, John H., Kansas City, Kans., M. A. Powers, owner by decree of court. Building slab. 1,787,166; Dec. 30.
Powers, Mary A., owner by decree of court. (See Powers, John H.)
Prantner, Karl, Berlin, Germany, assignor to Riley Stoker Corporation, Worcester, Mass. Water-cooled wall. 1,787,019; Dec. 30.
Premier Laboratory Company. (See Hutchison, Miller R., assignor.)
Priest, Charles A., assignor to The Scholl Mfg. Co. Inc., Chicago, Ill. Vibrator and using the same. 1,787,211; Dec. 30.
Proctor, John A., Lexington, and W. M. Bailey, Lynn, assignors to Wireless Specialty Apparatus Company, Boston, Mass. Electric condenser. Re17,916; Dec. 30.
Project Holding Corporation. (See Bauer, William J., assignor.)
Pugh, William J., Oakland, Calif. Occupant-propelled vehicle. 1,787,322; Dec. 30.
Pullen, Fred W., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Carpet-sweeper-brush drive mechanism. 1,786,864; Dec. 30.
Purcell, Reuben, East Finchley, London, England. Press for tennis and like rackets. 1,786,577; Dec. 30.
Purdy, Frederick L., Columbus, Ohio. Connecting means for rafters. 1,787,167; Dec. 30.
Pursel, Harold M., assignor to Sharrock and Pursel, Casper, Wyo. Duplex power scraper. 1,786,448; Dec. 30.
Pusey & Jones Corporation, The. (See Bowman Frederick A., assignor.)
Putt, Edward D., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Tire-flap-making apparatus. 1,787,168; Dec. 30.
Quick, Floyd R., Fort Dodge, Iowa, assignor to United States Gypsum Company, Chicago, Ill. Conveyer mechanism. 1,786,779; Dec. 30.
Rabun, George D., assignor to Cheatham Electric Switching Device Company, Louisville, Ky. Trolley-wire contactor. 1,786,449; Dec. 30.
Rachlin, Max, Brooklyn, N. Y. Eaves trough. Des. 82,957; Dec. 30.
Radio Corporation of America. (See Ziola, Henry A., assignor.)
Ranck, Edward B., Altoona, Pa. Relief valve. 1,786,918; Dec. 30.
Rauch, Max. (See Hammel, Ernst, assignor.)
Rawleigh, W. T. Company, The. (See Trevillian, William J., assignor.)
Ray, Frederick, Short Hills, N. J. Expansion joint. 1,786,506; Dec. 30.
Raymond Concrete Pile Company. (See Hunt, Francis H., assignor.)
Raymond Concrete Pile Company. (See Hunt, F. H., and Schroeder, assignors.)
Raymond Concrete Pile Company. (See Upson, Maxwell M., assignor.)
Read Machinery Company. (See Dawson, Albert S., assignor.)
Reed Roller Bit Company. (See Duda, Oswald, assignor.)
Reed, Thomas C., Covington, Ky., and A. D. Odell, Cincinnati, Ohio, assignors to American Telephone and Telegraph Company. Preparing insulating sleeves. 1,786,549; Dec. 30.
Reeves Manufacturing Company, The. (See Carroll, John, assignor.)
Regan, John, New Bedford, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop motion for terry-towel looms. 1,786,675; Dec. 30.
Reichart, James H., Muncie, Ind. Corn popper. 1,786,507; Dec. 30.
Reid, Ebenezer E., Baltimore, Md. Perfumery. 1,786,630; Dec. 30.
Reid, James S., assignor, by mesne assignments, to The Eaton Axle & Spring Company, Clevelond, Ohio. Attachment for tubular members. 1,786,721; Dec. 30.
Reid, James S., assignor to The Eaton Axle and Spring Company, Cleveland, Ohio. Neck and closure structure. 1,786,722; Dec. 30.
Reiners, Wilhelm, and G. Kahlisch, assignors to W. Schlafhorst & Co., Munich-Gladbach, Germany. Warping frame. 1,787,323; Dec. 30.
Reinke, Fred C., Mukwonago, Wis. Ensilage distributor. 1,787,261; Dec. 30.
Remington Rand Inc. (See Hunt, Alfred E., assignor.)
Remington Rand Inc. (See Hutchings, Le Roi E., assignor.)
Remington Rand Inc. (See Ohnstrand, Enoch, assignor.)
Renshaw, Joseph H., Cincinnati, Ohio, assignor to Continental Can Company, Inc., New York, N. Y. Attachment for can-body makers. 1,787,324; Dec. 30.
Repenning, Albert E., and C. J. Howel, assignors to Orange-Crush Company, Chicago, Ill. Agitating display jar. 1,786,450; Dec. 30.
Republic Flow Meters Company. (See Spitzglass, Albert F., assignor.)
Republic Steel Corporation. (See Williams, Julius E., assignor.)
Reserve Holding Company. (See Crocker, Thomas F., assignor.)
Reutter, Philip A. (See Wild, H. W., and Reutter.)
Rex Manufacturing Company. (See Hull, Robert W., assignor.)
Reynolds, Ernest. (See Wilson, T. A. D., and Reynolds.)
Reynolds, Richard, Nashville, Tenn. Bumper for motor cars and automobiles. 1,786,865; Dec. 30.
Reyrolle, A., & Company Limited. (See Coates, Frank, assignor.)
Ribard, Jean L., Paris, France. Oar blade or the like. 1,786,451; Dec. 30.
Richards-Wilcox Manufacturing Company. (See Phillips, Ellis, J. G., assignor.)
Richardson Company, The. (See Cain, John R., assignor.)

Rickenberg, Frederick B., Pittsburgh, Pa. Valve. 1,787,212; Dec. 30.
Ricker, Chester S., Indianapolis, Ind. Hood fastener. 1,786,452; Dec. 30.
Rieger, Carl, Aalen, Germany. Washing mangle. 1,787,286; Dec. 30.
Rieser Company, The. (See Natkiel, Harry, assignor.)
Right Idea Jap-Beetle Trap Co. (See Ruddell, William A., assignor.)
Riley Stoker Corporation. (See Prantner, Karl, assignor.)
Ripley, George A., Dallas, Tex. Shirt. 1,786,919; Dec. 30.
Risdon, Ivan, Seattle, Wash. Combination fireplace. 1,786,453; Dec. 30.
Rivkin, Menahem, Philadelphia, Pa. Throttle valve. 1,786,578; Dec. 30.
Robbins, Jay, Cooledge, Tex. Stalk cutter. 1,786,455; Dec. 30.
Roberton, Lloyd T., Milwaukee, Wis. Switch. 1,787,262; Dec. 30.
Roberts, Edward F., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle body. 1,787,169; Dec. 30.
Robertson, Peter L., Milton, Ontario, Canada. Screw driver and making same. 1,787,087; Dec. 30.
Robertson, William H., assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 1,786,454; Dec. 30.
Robinson, John T., Company. (See Robinson, J. T., and Cook, assignors.)
Robinson, John T., and H. F. Cook, assignors to John T. Robinson Company, Boston, Mass. Creasing and cutting machine. 1,787,170; Dec. 30.
Robinson, Joseph, New York, N. Y. Automatic connecter. 1,787,122; Dec. 30.
Röder, Karl, Hanover, Germany. Steam turbine. 1,787,263; Dec. 30.
Rodman, Clarence J., Alliance, Ohio. Jack. 1,786,866; Dec. 30.
Roe, Ralph C., Englewood, assignor of one-half to S. W. Borden, Summit, N. J. Supporting pole for electrical conductors. 1,786,631; Dec. 30.
Roebling's, John A., Sons Company. (See Craig, William E., assignor.)
Roessler & Hasslacher Chemical Company, The. (See Lehrecke, Hans, assignor.)
Rogers, Arthur R., Jonesport, Me. Fish-cutting machine. 1,786,632; Dec. 30.
Rognlie, Ingolf H. M. (See Hasselquist, A. A., and Rognlie.)
Rohl, Erich H., assignor to The Mantle Lamp Company of America, Chicago, Ill. Method of and apparatus for assembling glass blanks. 1,786,456; Dec. 30.
Rohrmann, Alfred, Oakland, and H. Schmidt, Berkeley, Calif. Culinary means. 1,787,171; Dec. 30.
Rohrmann, Alfred, Oakland, and H. Schmidt, Berkeley, Calif. Cover for cooking vessels. 1,787,172; Dec. 30.
Root Spring Scraper Company. (See Weeks, Ernest A., assignor.)
Rosemary Mfg. Co. (See Haug, Herman, assignor.)
Rosenberg, Heyman, New York, N. Y. Apparatus for and art of treatment of metal work. 1,786,508; Dec. 30.
Rosenthal, Arthur, Grand Rapids, Mich. Label printing, feeding, and cutting machine. 1,786,867; Dec. 30.
Rossman, Allen M., assignor, by mesne assignments, to Rossman Patents, Incorporated, Chicago, Ill. Station construction. 1,787,053; Dec. 30.
Rossman Patents, Incorporated. (See Rossman, Allen M., assignor.)
Roterkleen Manufacturing Company. (See Day, Howard D., assignor.)
Rowan, Thomas, Brooklyn, assignor to Structural Gypsum Corporation, New York, N. Y. Building construction. Re17,913; Dec. 30.
Rowland, John. (See Tarone, P., and Rowland.)
Rubber Service Laboratories Co., The. (See North, Clayton O., assignor.)
Rubber Shock Insulator Corporation, The. (See Edson, William R., assignor.)
Rubin, Ernest, Atlanta, Ga. Aircraft. 1,787,325; Dec. 30.
Ruddell, William A., Cape May Point, N. J., assignor to Right Idea Jap-Beetle Trap Co., Norfolk, Va. Beetle trap. 1,787,421; Dec. 30.
Rüdenberg, Reinhold, Berlin-Grunewald, and W. Schottky, Berlin-Charlottenburg, assignors to Siemens-Schuckertwerke, Aktiengesellschaft, Berlin-Siemensstadt, Germany. Producing thin insulating layers upon wires. 1,786,920; Dec. 30.
Rumford Chemical Works. (See Fiske, Augustus H., assignor.)
Runnels, Walter S., Kalamazoo, Mich. Vending machine. 1,786,868; Dec. 30.
Rushmore, Samuel W., Plainfield, N. J. Hydraulic brake. 1,786,633; Dec. 30.
Russell, Bennett, Huntington, W. Va. Attachment for percolators. 1,787,394; Dec. 30.
Russell, Roy V. (See Byrum, J. R., Russell, and Meeks.)
Rutenber, Edwin A., assignor to A. J. Lindemann-Hoverson Company, Milwaukee, Wis. Toaster. Des. 82,965; Dec. 30.
Rutledge, George E., Chicago, Ill., assignor to The Munsingwear Corporation, Minneapolis, Minn. Bathing suit. 1,786,869; Dec. 30.
Rys, Ladislav, Ruzomberok, Czechoslovakia. Bleaching cellulose of any kind. 1,787,395; Dec. 30.
Sachs, Abraham, Salisbury, Md., assignor to Sachs Sole Shaping Machine Company, Incorporated. Device for forming recesses and enlargements on shoe insoles. Re17,914; Dec. 30.
Sachs Sole Shaping Machine Company. (See Sachs, Abraham, assignor.)
Safety Car Heating & Lighting Company, The. (See Schepmoes, Lindsley, assignor.)
St. Clair, Merle C. (See Swain, F. T., and St. Clair.)
St. Joseph Iron Works. (See Schmidtke, Albert H., assignor.)
Sala, David G. (See Lindstrom, L. O. B., and Sala.)
Salmar, Frank W., Chicago, Ill. Cigar knife. 1,787,396; Dec. 30.
Salomonsen, Jacob, Greenwood, Wis. Motor-truck trailer. 1,787,213; Dec. 30.
Samuels, William, Detroit, Mich. Piston drive. 1,787,173; Dec. 30.
Sanders, Arthur F., assignor to R. A. Lister & Company, Limited, Dursley, England. Compression-ignition internal-combustion engine. 1,787,326; Dec. 30.
Sanford-Riley Stoker Corporation. (See Grahame, Dallas F., assignor.)
Sargeant, Nathan E., Montesano, Wash. Trimming machine. 1,786,676; Dec. 30.
Sargent & Greenleaf, Inc. (See Hill, Reuben, assignor.)
Sarver, Ray D., Minneapolis, Minn. Windshield-wiper element and construction. 1,786,457; Dec. 30.
Sautter, Hosea F., Fort Worth, Tex. Packing for rods and shafts. 1,787,020; Dec. 30.
Sauvage, William H., assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Slack adjuster. 1,787,123; Dec. 30.
Savage, John C., London, England. Apparatus for disseminated material in finely-divided or powderous form. 1,787,397; Dec. 30.
Schalk, Jacob R. (See Parsons, Sylvanus H. H., assignor.)
Schauseil, Albert P. (See Bullock, E. W., Schauseil, Draeseke, Galloway, and Hill.)
Schellens, Christopher A., Marblehead, Mass., and E. L. Schellens, Maplewood, assignors to C-S Engineering Company, Jersey City, N. J. Superheater. 1,787,021; Dec. 30.
Schellens, Eugene L. (See Schellens, C. A. and E. L.)
Schellentrager, Eugene W., Cleveland Heights, assignor to The Atlas Bolt & Screw Company, Cleveland, Ohio. Automatic recording means for dump cars. 1,787,287; Dec. 30.
Schepmoes, Lindsley, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Lighting fixture. 1,786,962; Dec. 30.
Scheuer, Jacob H., New York, assignor to Herman Scheuer's Son & Co., Long Island City, N. Y. Wallet. 1,787,054; Dec. 30.
Scheuer's, Herman, Son & Co. (See Scheuer, Jacob H., assignor.)
Schibsted, Helge. (See Merrell, I. S., and Schibsted.)
Schlafhorst, W., & Co. (See Reiners, W., and Kahlisch, assignors.)
Schlaich, Herman, Long Island City, N. Y. Temperature indicator for transformers and the like. 1,787,327; Dec. 30.
Schlenker, Vesper A., Orange, N. J. Acoustic diaphragm. 1,787,055; Dec. 30.
Schleyer, Victor, Anderson, Ind. Turbo pump. 1,787,088; Dec. 30.
Schmid, Walter. (See Bürgin, E., and Schmid.)
Schmidt, Ernest H., Mankato, Minn. Mechanical movement and toy. 1,787,174; Dec. 30.
Schmidt, Hellmuth. (See Rohrmann, A., and Schmidt.)
Schmidtke, Albert H., assignor to St. Joseph Iron Works, St. Joseph, Mich. Stapling machine. 1,786,870; Dec. 30.
Schmitz, Carl, Oelde, Germany. Centrifugal bowl separator. 1,786,921; Dec. 30.
Schoeller, Walter, Berlin-Westend, and H. Jordan, Berlin-Steglitz, assignors to the firm Chemische Fabrik auf Action, (vorm. E. Schering), Berlin, Germany. Production of thymol. 1,786,922; Dec. 30.
Schoenberger, Paul, Belton, assignor of one-half to C. Yale, Whitefish, Mont. Sprinkler system. 1,786,963; Dec. 30.
Schoenhut, A., Company, The. (See Schoenhut, Frederick C., assignor.)
Schoenhut, Frederick C., assignor to The A. Schoenhut Company, Philadelphia, Pa. Lamp shade. Des. 82,958; Dec. 30.
Schoenrock, Otto R., Chicago, Ill., assignor to International Harvester Company. Overtire for lugged traction wheels. 1,786,871; Dec. 30.
Scholes, Richard T., Hinsdale, Ill. Rail joint. 1,787,089; Dec. 30.
Scholes, Richard T., Hinsdale, Ill. Rail joint. 1,787,090; Dec. 30.
Scholl Mfg. Co. Inc., The. (See Priest, Charles A., assignor.)
Schottky, Walter. (See Rüdenberg, R., and Schottky.)
Schöttler, Emil, Essen-Rutt, Germany. Distributing gear for big hydraulic working machines. 1,787,328; Dec. 30.
Schriever, Otto, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Intermediate frequency modulation inside a radio-frequency modulator tube. 1,786,579; Dec. 30.

Schroeder, Frederick A. (See Hunt, F. H., and Schroeder.)
Schubert, Max. (See Kaufmann, H. P., and Schubert.)
Schuhmann, Richard L. (See Stimpson, W. F., and Schuhmann.)
Schumacher, Elmer L., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 1,786,580; Dec. 30.
Schwarz, Gotthold P., Bridgeport, Conn. Smoker's stand. Des. 82,959; Dec. 30.
Scott, Angus C., Shaker Heights, Ohio. Trolley ear and attachment therefor. 1,787,091; Dec. 30.
Scovill Manufacturing Company. (See Fenton, Paul E., assignor.)
Scovill Manufacturing Company. (See King, George A., assignor.)
Scovill Manufacturing Company. (See Wild, H. W., and Reutter, assignors.)
Scruby, George E., Dallas, Tex. Garment-hanger attachment. 1,786,923; Dec. 30.
Sears, Roebuck and Co. (See Cooper, W. L., and Fortier, assignors.)
Seeley, Frank E., assignor to Abendroth Brothers, Port Chester, N. Y. Oven shelf. 1,787,022; Dec. 30.
Seil, Gilbert E., Newark, N. J., assignor to The Koppers Company, Pittsburgh, Pa. Gas purification. 1,786,509; Dec. 30.
Seitz, John F., Hollywood, Calif. Camera and method of photography. 1,787,023; Dec. 30.
Selden Company, The. (See Jaeger, Alphons O., assignor.)
Sexe, Ammon T., Hills, Minn. Rerailing device. 1,787,329; Dec. 30.
Sgritta, Alfonso, Brooklyn, N. Y. Automatic night-candle-molding machine. 1,786,634; Dec. 30.
Shafer Bearing Corporation. (See Shafer, Julius E., assignor.)
Shafer, Julius E., assignor to Shafer Bearing Corporation, Chicago, Ill. Antifriction bearing. 1,787,214; Dec. 30.
Sharrock and Pursel. (See Pursel, Harold M., assignor.)
Shehan, William E., and G. Bell, Los Angeles, Calif. Closed-car wind-wing bracket. 1,786,635; Dec. 30.
Shepherd, Judson O., Atlanta, Ga. Supervisory and control system. 1,786,780; Dec. 30.
Sherman, Alvin G., Grosse Pointe, and A. Meadows, Detroit, assignors to The Detroit Vapor Stove Company, Detroit, Mich. Apparatus for enameling metal articles. 1,787,175; Dec. 30.
Shipley, Bernis M., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,786,964; Dec. 30.
Shipman, Emanuel F., Philadelphia, Pa. Insulating non-tilting stool. 1,786,458; Dec. 30.
Shoemaker, Milton J., Madison, assignor to C. F. Burgess Laboratories, Inc., Madison, Wis. Cloth-like fabric. 1,786,781; Dec. 30.
Shonnard, Harold W., Montclair, N. J., assignor to Elevator Supplies Company, Inc. Automatic door closer. 1,786,782; Dec. 30.
Short, Charles R., and C. L. Lee, assignors to General Motors Research Corporation, Dayton, Ohio. Oil-treating apparatus. 1,787,409; Dec. 30.
Short, Otto R. (See Pentler, S. J., and Short.)
Sidgreaves, Henry W., Newark, N. J. Toe supporter. 1,787,398; Dec. 30.
Siegens, Hans, Horrem, near Cologne, Germany. Making pure alumina by electrothermal reduction of the impurities in alumina-containing raw materials. 1,787,124; Dec. 30.
Siemens, Bauunion Gesellschaft mit beschränkter Haftung, Kommanditgesellschaft. (See Greim, Walther, assignor.)
Siemens-Schuckertwerke Aktiengesellschaft. (See Rüdenberg, R., and Schottky, assignors.)
Sierad, Albert E., assignor to George W. Button Corporation, New York, N. Y. Face-powder container. Des. 82,960; Dec. 30.
Sievert, Albert A., Kaukauna, Wis. Automatic ensilage distributor. 1,786,677; Dec. 30.
Simmen Automatic Railway Signal Company. (See Simmen, Paul J., assignor.)
Simmen, Paul J., assignor to Simmen Automatic Railway Signal Company, Eden, N. Y. Automatic train control. 1,786,783; Dec. 30.
Simmons, William J., jr., et al. (See Simmons, William J. sr., assignor.)
Simmons, William J., sr., assignor of one-third to W. J. Simmons, jr., and one-third to M. Pavlik, jr., Coaldale, Pa. Car-coupling pin. 1,786,872; Dec. 30.
Simon, Louis J., London, England. Distillation apparatus. 1,787,399; Dec. 30.
Simons, Burdick, Denver, Colo. Baby bottle holder. 1,786,459; Dec. 30.
Sinclair, Leonard, assignor to Becker Valve and Specialty Corporation, Newburgh, N. Y. Mixing valve. 1,787,215; Dec. 30.
Sinclair Refining Company. (See Ison, E. W., and Phillips, assignors.)
Singer Manufacturing Company, The. (See Hemleb, Martin, assignor.)
Singer Manufacturing Company, The. (See Kaier, Richard, assignor.)
Sjöström, Bertha, Los Angeles, Calif. Manually-operated irrigator. 1,787,024; Dec. 30.
Sly, Caryl. (See Dykstra, H. B., and Sly.)
Smart, James, Orlando, Fla. Shoe stretcher. 1,786,965; Dec. 30.
Smiley, Samuel, jr., assignor to The Globe-Wernicke Company, Cincinnati, Ohio. Filing tray. 1,787,410; Dec. 30.
Smith & Crosby. (See Gammell, Ove L., assignor.)
Smith, Harold B., Worcester, Mass., assignor to Westinghouse Electric & Manufacturing Company. Insulator. 1,786,784; Dec. 30.
Smith, John W., assignor to Budd Wheel Company, Philadelphia, Pa. Power-equalizing device for vehicle brakes. 1,787,092; Dec. 30.
Smith, R. E., et al. (See Clayton, William F., assignor.)
Smith, Wallace D., New Britain, Conn. Golf-tee retriever. 1,787,400; Dec. 30.
Snow, Arthur E., assignor, by mesne assignments, to The Daly Manufacturing Company, Cincinnati, Ohio. Press. 1,787,125; Dec. 30.
Societe Anonyme des Etablissements Luteraan. (See Caillaud, René F. H., assignor.)
"Societe Anonyme Solex". (See Goudard, Maurice, assignor.)
Soda, Alessandro, New York, N. Y. Standard barber-razor holder. 1,787,093; Dec. 30.
Sorensen, Claude S., San Carlos, assignor to California Concrete Products Co., Sunnyvale, Calif. Centrifugal molding apparatus and process. 1,787,094; Dec. 30.
Spangler, Samuel, Glenalum, W. Va. Valve lock. 1,787,401; Dec. 30.
Spaulding, Arch W., assignor to The American Rolling Mill Company, Middletown, Ohio. Machine for internally-coating culvert pipes. 1,786,785; Dec. 30.
Speakman Company. (See Fraser, James, assignor.)
Spelcher, Daniel E., assignor to The Cyclone Manufacturing Company, Urbana, Ind. Adjustable guard for poultry feeders. 1,787,330; Dec. 30.
Sperry Gyroscope Company. (See Carter, L. F., and Hodgman, assignors.)
Spielberger, Sigmond, Jamaica, N. Y. Suspender vest. 1,787,216; Dec. 30.
Spilsbury, Hugh G., Cranford, assignor, by mesne assignments, to F. Earle, Montclair, N. J. Welding process. 1,787,056; Dec. 30.
Spitzglass, Albert F., assignor to Republic Flow Meters Company, Chicago, Ill. Heat regulator and recorder. 1,787,176; Dec. 30.
Springfield Metallic Casket Company, The. (See Henderson, Roe P., assignor.)
Sprunger, Jacob J., Fort Wayne, Ind. Wedge for tool handles. 1,786,636; Dec. 30.
Square D Company. (See Van Valkenburg, Hermon L., assignor.)
Stampen, Jacob J., assignor to Babson Manufacturing Corporation, Chicago, Ill. Teat cup. 1,786,786; Dec. 30.
Standard Car Truck Company. (See Barber, F. L., and Webb, assignors.)
Standard Oil Company. (See Bacheldor, William H., assignor.)
Standard Oil Development Company. (See Wiess, Harry C., assignor.)
Standard Patent Process Corporation. (See Conant, Leon B., assignor.)
Stanton, Edgar L., Union County, Ind. Traffic stop. 1,786,678; Dec. 30.
Starkenstein, Emil, Prague, Czechoslovakia, assignor to the firm Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Pharmaceutical product and making same. 1,786,873; Dec. 30.
Stearns & Foster Company, The. (See Nash, Benjamin S., assignor.)
Steel Penetrometer Company, The. (See Bindschedler, T. S., and Wood, assignors.)
Steele, Harry. (See Jackson, G. P., Toensfeldt, and Steele.)
Steere, Clarence E., Los Angeles, Calif. Automatic timing mechanism. 1,787,217; Dec. 30.
Steerup, Godfrey, Maywood, assignor to Electrical Engineers Equipment Co., Melrose Park, Ill. Arc-quenching material. 1,786,581; Dec. 30.
Stein, Frederick W., Atchison, Kans. Cleaning implement. 1,786,723; Dec. 30.
Steinmeyer, Fred W., Oakland, Calif. Window-drape illuminator. 1,786,787; Dec. 30.
Steinnes, Johann, Oberhausen, Germany. Device for coating the interior of walls of pipes or conduits. 1,787,126; Dec. 30.
Steppé, Alphonse. (See Steppé, H., A., and G.)
Steppé, Gustave. (See Steppé, H., A., and G.)
Steppé, Hector, A., and G., Berchem-Ste. Agathe, near Brussels, Belgium. Mold for manufacturing boots, shoes, and similar articles of rubber or other plastic material. 1,787,177; Dec. 30.
Sternberger, Charles. (See Harry, G. M., and Sternberger.)
Stevens, Edward W., Detroit, Mich., assignor, to Chicago Pneumatic Tool Company, New York, N. Y. Tool-retaining coupling. 1,787,178; Dec. 30.
Stevens, Horace D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Apparatus for reenforcing tire beads. 1,787,411; Dec. 30.
Stevens, Horace D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Grinding or buffing machine. 1,787,412; Dec. 30.

Stevens, J., Arms Company. (See Jefferson, Charles J., assignor.)
Stevens, William C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tire-building machine. 1,787,413; Dec. 30.
Stevens, William C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Strip-applying device for tire-building machines. 1,787,414; Dec. 30.
Stewart, John E. (See Joaquin, Nathan E., assignor.)
Stimpson, Walter F., and R. L. Schuhmann, Louisville, Ky.; said Schuhmann assignor to said Stimpson. Scale. 1,786,788; Dec. 30.
Stinson, Lewis A., Oak Park, Ill. Cargo-discharging apparatus for ships. 1,787,025; Dec. 30.
Stoddard, William B., Stamford, Conn., and V. R. Kokatnur, New York, N. Y., assignors to Pilot Laboratory, Inc., Arlington, N. J. Bleaching agent and making the same. 1,787,402; Dec. 30.
Stokes, Francis J., Philadelphia, Pa. Compressing machine. 1,786,637; Dec. 30.
Stone, John S., assignor to Penrod Walnut and Veneer Company, Kansas City, Mo. Stay log. 1,786,460; Dec. 30.
Stoner-Ames Brake Company. (See Stoner, George H., assignor.)
Stoner, George H., East Boston, assignor, by mesne assignments, to Stoner-Ames Brake Company, Inc., Boston, Mass. Internal expansion brake. 1,786,461; Dec. 30.
Story, John H., Oakland, Calif. Roller screen. 1,786,550; Dec. 30.
Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Plow. 1,787,127; Dec. 30.
Strausbaugh, Carey E., Chillicothe, Ohio. Coal-car stake-straightening device. 1,787,095; Dec. 30.
Strauss, Benno, Essen-Bredeney, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Steel alloy insensible to hot gases and vapors. 1,787,403; Dec. 30.
Streckfuss, Elmer G., assignor to The Cincinnati Time Recorder Company, Cincinnati, Ohio. Meat slicer. 1,787,288; Dec. 30.
Structural Gypsum Corporation. (See Rowan, Thomas, assignor.)
Stryker, George B., jr., assignor to The Weatherproof Products Company, Memphis, Tenn. Plastic composition. 1,786,462; Dec. 30.
Stuart, Elmer H., assignor to Eli Lilly and Company, Indianapolis, Ind. Lens extract and making it. 1,787,179; Dec. 30.
Summit Thread Company. (See Johnson, Henry G., assignor.)
Sun Oil Company. (See Pew, Arthur E., jr., assignor.)
Sutphen, Robert M., Newark, N. J., assignor to American Enameled Brick & Tile Company, New York, N. Y. Producing illusory ornamental effects in architectural structures. 1,786,789; Dec. 30.
Sutton, Clarence L., Tulsa, Okla. Separator. 1,786,790; Dec. 30.
Swain, Francis T., Newcastle, Ind. Gear-cutting machine. 1,786,551; Dec. 30.
Swain, Francis T., and M. C. St. Clair, Newcastle, Ind. Gear-cutting machine. 1,786,552; Dec. 30.
Swain, Joseph G., assignor to The Firestone Steel Products Company, Akron, Ohio. Making wire wheels. 1,787,128; Dec. 30.
Swanson, Arthur. (See Trotter, F., and Swanson.)
Swanson, Peter, Ely, Minn. Gravity lock. 1,786,582; Dec. 30.
Sweet, Donald H. (See Pierce, E. F., and Sweet.)
Swensson, Herbert A., Rose Creek, Minn. Combination harrow and scraper. 1,786,510; Dec. 30.
Symington Company, The. (See Barrows, Donald S., assignor.)
Symington Company, The. (See Martin, Mark H., assignor.)
Syracuse Washing Machine Corporation. (See Geldhof, Peter E., assignor.)
Talarn, Camilo, Rosario De Santa Fe, Argentina. Indicating copyholder. 1,786,874; Dec. 30.
Tarone, Philip, and J. Rowland, Ravenrun, Pa. Coal separator. 1,787,096; Dec. 30.
Taylor, John M., Bridgeport, C. N. Jacobs, Norristown, and R. R. Titus, Villanova, Pa., assignors, by mesne assignments to Continental-Diamond Fibre Company, Newark, Del. Manufacturing gum-bonded laminated bodies. 1,787,404; Dec. 30.
Taylor, Maurice C. (See MacMullin, R. B., and Taylor.)
Teitscheld, Alfred F. (See Zornig, H. H., and Teitscheld.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Schriever, Otto, assignor.)
Terry, Matson C., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Refrigerator equalizer valve. 1,786,791; Dec. 30.
Tessky, Karl, Esslingen-on-the-Neckar, Germany. Safety device for cam-controlled mechanisms. 1,786,875; Dec. 30.
Tessky, Karl, Esslingen-on-the-Neckar, Germany. Feeding device for machine tools. 1,786,876; Dec. 30.
Texas Company, The. (See Goodwin, John M., assignor.)
Texas Company, The. (See Holmes, R. C., and Manley, assignors.)
Thaler, Wilhelm, Heidenheim-on-the-Brenz, Germany, assignor to American Voith Contact Company, Incorporated, New York, N. Y. Wood grinder. 1,786,679; Dec. 30.
Thomann, Frederick A. (See Neighbour, L. B., and Thomann.)
Thomas, David R., Cleveland, Ohio. Trailer construction. 1,786,463; Dec. 30.
Thomas, George G., Hillside, Ariz., assignor to American Cyanamid Company, New York, N. Y. Reagent feeder. 1,787,289; Dec. 30.
Thomas, Phillips, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Paralleling relay system. 1,786,792; Dec. 30.
Thomas, William, New York, N. Y. Spring-winding control device. 1,787,343; Dec. 30.
Thompson, Charles W., Wollaston, assignor to H. C. Wheeler, Boston, Mass. Towel cabinet. 1,786,966; Dec. 30.
Thompson, Elmer B., assignor to National Sales and Manufacturing Company, Des Moines, Iowa. Corn popper. 1,786,877; Dec. 30.
Thompson, Lincoln, Naugatuck, assignor to Wm. H. Bristol Talking Picture Corporation, Waterbury, Conn. Electromagnetic pick-up device for phonographic records. 1,787,290; Dec. 30.
Thompson Motor Corporation. (See Frederickson, Clayton E., assignor.)
Thompson, Norman F., jr., Colebrook, assignor to The William L. Gilbert Clock Company, Winsted, Conn. Clock case. Des. 82,961; Dec. 30.
Thompson Products, Inc. (See Bissell, Richard E., assignor.)
Thomsen, Peter Skovby, Great Village, Nova Scotia, Canada. Shovel for potato diggers. 1,786,464; Dec. 30.
Thomson-Gibb Electric Welding Company. (See Gibb, William H., assignor.)
Thorngren, Helmer, Detroit, Mich. Skate sharpener. 1,786,553; Dec. 30.
Thumim, Carl, Philadelphia, Pa., assignor to General Electric switch. 1,787,291; Dec. 30.
Tiefel, Charles G. (See Bohrer, R. E., Payne, and Tiefel.)
Tiefel, Ella M., executrix. (See Bohrer, R. E., Payne, and Tiefel.)
Tinsley, John F., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Bobbin support for weft-replenishing looms. 1,786,680; Dec. 30.
Titus, Robert R. (See Taylor, J. M., Jacobs, and Titus.)
Todd Company, The. (See Bohrer, R. E., Payne, and Tiefel, assignors.)
Todd Company Inc., The. (See Payne, W. B., Bohrer, and Fuhlborn, assignors.)
Todd, Ernest G., Brussels, Belgium. Mill for grinding paints, inks, enamels, and other viscous materials. 1,787,180; Dec. 30.
Toensfeldt, Kurt. (See Jackson, G. P., Toensfeldt, and Steele.)
Tolhurst Machine Works, Inc. (See Bryson, Tandy A., assignor.)
Tower Manufacturing Co. (See Merrill, Hamilton, assignor.)
Townsend, George R., Schenectady, N. Y., assignor to General Electric Company. Circuit-controlling device. 1,787,292; Dec. 30.
Tracy, Ida M. (See McGee, Rupert E., assignor.)
Traquair, John, Chillicothe, assignor to The Mead Pulp & Paper Company, Dayton, Ohio. Method of and apparatus for manufacturing paper. 1,786,681; Dec. 30.
Trask, Jesse H., Wausau, Wis. Making decorated paper. 1,787,218; Dec. 30.
Traver, Oliver C., Pennfield, Upper Darby, Pa., assignor to General Electric Company. Protective arrangement. 1,787,181; Dec. 30.
Treadwell Engineering Company. (See Mikaelson, Erik W., assignor.)
Trevillian, William J., assignor to The W. T. Rawleigh Company, Freeport, Ill. Extracting pyrethrum. 1,786,967; Dec. 30.
Trotter, Fred, and A. Swanson, Fort Dodge, Iowa, assignors to United States Gypsum Company, Chicago, Ill. Method of and apparatus for scoring blocks. 1,787,219; Dec. 30.
Trouton, Maurice, Buckinghamshire, assignor to Wireless Music Limited, London, England. Electrically-operated vibratory device. 1,786,583; Dec. 30.
Trouton, Maurice, Buckinghamshire, assignor to Wireless Music Limited, London, England. Electromechanical vibration translating device such for example as loud-speakers. 1,786,584; Dec. 30.
Troy, Seymour, Brooklyn, N. Y. Woman's shoe. Des. 82,962; Dec. 30.
Truscinski, Peter F. (See Brown, H. P., and Truscinski.)
Turbine Patents Corporation. (See Klimek, Gustav A., assignor.)
Turnbull, William, Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif. Track shoe. 1,786,924; Dec. 30.
Turner, Edward T., Dayton, Ohio. Water-softening apparatus. 1,787,129; Dec. 30.
Turner, Edward T., Dayton, Ohio. Level-controlling device for liquid containers. 1,787,130; Dec. 30.
Turner, Hal, Tulsa, Okla. Index-cabinet slide. 1,787,344; Dec. 30.

Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Bobbin for weft-replenishing looms. 1,786,682; Dec. 30.
Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector. 1,786,683; Dec. 30.
Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Temple for double-fabric looms. 1,786,684; Dec. 30.
Tytus, John B., assignor to The American Rolling Mill Company, Middletown, Ohio. Rolling mill. 1,786,793; Dec. 30.
Underwood, Leon, New York, N. Y. Vehicle construction. 1,787,131; Dec. 30.
Union Hardware Company. (See Washington, Bowden, assignor.)
Union Metal Products Company. (See Gilpin, Garth G., assignor.)
Union Special Machine Company. (See Zeier, Frederick F., assignor.)
Union Special Maschinenfabrik G. m. b. H., (See Maier, Karl, assignor.)
Union Switch & Signal Company, The. (See Baughman, George W., assignor.)
Union Switch & Signal Company, The. (See Vanhorn, James J., assignor.)
United Shoe Machinery Corporation. (See Knowlton, Cutler D., assignor.)
United Shoe Machinery Corporation. (See Lawson, Oscar L., assignor.)
United Shoe Machinery Corporation. (See Leveque, Bernard T., assignor.)
United States Gypsum Company. (See Absmeier, Carl, assignor.)
United States Gypsum Company. (See Balduf, Bruno E., assignor.)
United States Gypsum Company. (See Farnham, Merton W., assignor.)
United States Gypsum Company. (See Heeren, Arthur A., assignor.)
United States Gypsum Company. (See Marks, Herbert E., assignor.)
United States Gypsum Company. (See Quick, Floyd R., assignor.)
United States Gypsum Company. (See Trotter F., and Swanson, assignors.)
Universal Button Fastening & Button Company. (See Ford, Ira D., assignor.)
Unwin, Kenneth J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Bobbin support for weft-replenishing looms. 1,786,685; Dec. 30.
Upson, Maxwell M., Englewood, N. J., assignor to Raymond Concrete Pile Company, New York, N. Y. Composite pile. 1,786,968; Dec. 30.
Van Der Heuel, Corneal, Richmond Hill, N. Y. Hair-drying apparatus. 1,786,969; Dec. 30.
Van Halteren, Andrew S., East Lansing, assignor to Motor Wheel Corporation, Lansing, Mich. Demountable wheel spider. 1,786,794; Dec. 30.
Vanhorn, James J., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-train-indicating apparatus. 1,786,795; Dec. 30.
Van Keuren, Herbert, Kingstree, assignor to The Electro Automatic Drainage Company, Columbia, S. C. Electromagnetic draining device. 1,786,878; Dec. 30.
Van Orsdale, Allen A., Houston, Tex., assignor to The Brown Instrument Company, Philadelphia, Pa. Gravity-indicating system. 1,787,132; Dec. 30.
Van Valkenburg, H. L., Wauwatosa, Wis., assignor, by mesne assignments, to Square D Company, Detroit, Mich. Motor-control system. 1,786,554; Dec. 30.
Van Wagenen, James H., Washington, D. C. Electromagnetic sound-producing device. 1,786,465; Dec. 30.
Vaughn, Frank O., Poughkeepsie, N. Y. Brake mechanism. 1,786,970; Dec. 30.
Vedoveili, Mario, Milan, Italy. Steering gear for vehicles. 1,787,345; Dec. 30.
Verhoff, John B., Lima, Ohio. Agricultural implement. 1,787,026; Dec. 30.
Verona Chemical Co. (See Ehrlich, Jacob, assignor.)
Viliella, Charles J., Emporium, Pa. Testing outfit. 1,786,971; Dec. 30.
Vineberg, Louis, Windsor, Ontario, Canada. Safety pocket. 1,786,879; Dec. 30.
Vitrefrax Corporation. (See Curtis, Thomas S., assignor.)
Von Hoorn, Fred G., Bridgeport, Conn., assignor to Westinghouse Electric & Manufacturing Company. Circuit breaker. 1,786,796; Dec. 30.
Von Hoorn, Fred G., Bridgeport, Conn., assignor to Westinghouse Electric & Manufacturing Company. Circuit breaker. 1,786,797; Dec. 30.
Von Hoorn, Fred G., Bridgeport, Conn., assignor to Westinghouse Electric & Manufacturing Company. Circuit breaker. 1,786,798; Dec. 30.
Von Kandó, Kalman, Budapest, Hungary, assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,786,799; Dec. 30.
Von Kert Hott, Ion. (See Hott, Ion V. K.)
Vortex Cup Company. (See Carle, Harold, assignor.)
Vortex Cup Company. (See Wood, Andrew C., assignor.)
Wackenreuter, Andreas G., Chicago, Ill. Treating tanning solutions. 1,786,880; Dec. 30.
Wadell, Albert H., Newark, N. J. Gauge for adjusting brake linings. 1,786,638; Dec. 30.
Wahl Company, The. (See Mungen, D. D., and Back, assignors.)
Wahlberg, Nils A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transmission-line device. 1,786,801; Dec. 30.
Wait, Justin F., New York, N. Y., assignor to National Aniline & Chemical Co., Inc. Producing indigo by arylglycine fusion. 1,786,800; Dec. 30.
Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Mechanical warp-stop motion. 1,786,686; Dec. 30.
Walker Dishwasher Corporation. (See Walker, Forrest A., assignor.)
Walker, Forrest A., assignor to Walker Dishwasher Corporation, Syracuse, N. Y. Impeller for mechanical dishwashers. 1,787,220; Dec. 30.
Walker, Harry, Oil City, La., assignor, by mesne assignments, to Mills Novelty Company, Chicago, Ill. Coin depository. 1,786,466; Dec. 30.
Walker, Herbert E., Los Angeles, Calif. Device for holding looms on cables. 1,786,585; Dec. 30.
Wallace, Jeffrey J., assignor to Gullett Gin Company, Amite, La. Gin rib. 1,786,972; Dec. 30.
Walter, Georges, Perroy, Switzerland. Method and an apparatus for manufacturing hollow bodies. 1,786,586; Dec. 30.
Walter, Harrison B., assignor to Container Corporation of America, Chicago, Ill. Protective means for pipes. 1,786,467; Dec. 30.
Wamelink, Eugene C., assignor, by mesne assignments, to The Eaton Axle & Spring Company, Cleveland, Ohio. Cover attaching and locking means. 1,786,802; Dec. 30.
Wantz, Solomon E. (See Arnold, R. V., Flickinger, and Wantz.)
Ward, Hugh H., Chester, Pa. Metallic receptacle. 1,787,221; Dec. 30.
Ward, Ottomar L., Waterville, Nova Scotia, Canada. Pruning saw. 1,787,057; Dec. 30.
Ward, Willis C., Orchard Lake, Mich. Safety aircraft. 1,787,293; Dec. 30.
Ward, Willis C., Orchard Lake, Mich. Safety device for aircraft. 1,787,294; Dec. 30.
Ward, Willis C., Orchard Lake, Mich. Grader. 1,787,295; Dec. 30.
Warner, Clarence, assignor to Delco Light Company, Dayton, Ohio. Water system. 1,786,468; Dec. 30.
Warner Electric Brake Corporation. (See Whyte, John, assignor.)
Warner, Harry C., Kansas City, Mo. Combination container and display device. 1,787,222; Dec. 30.
Warren, Julian K., Saucier, Miss. Lock. 1,786,511; Dec. 30.
Washington, Bowden, New York, N. Y., assignor to Union Hardware Company, Torrington, Conn. Golf club. 1,787,415; Dec. 30.
Wasleff, Alex, Chicago, Ill. Herringbone flooring. 1,787,027; Dec. 30.
Wasson, Harry C., Franklin, Pa., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Safety-stop apparatus for engines. 1,787,223; Dec. 30.
Watchek, Harry A. (See Johnston, E. A., Merwin, and Watchek.)
Watters, Kenneth J., Ocheyeden, Iowa. Fuel pump. 1,787,346; Dec. 30.
Wattie, William M., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Attachment for reversible dobby heads. 1,786,687; Dec. 30.
Wattie, William M., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Multicolor magazine for looms. 1,786,688; Dec. 30.
Watts, Warren S., Louisville, assignor to Arlette, Inc., Louisville, Ky. Hair-waving wrapper. 1,786,881; Dec. 30.
Weatherproof Products Company. The. (See Stryker, George B., jr., assignor.)
Weaver, Franklin E. (See Fountain, Lee C., assignor.)
Weaver, Harry F., Evansville, Ind. Water-closet bowl. Des. 82,963; Dec. 30.
Webb, Edwin W. (See Barber, F. L., and Webb.)
Webber, Robert A., assignor to Brown Company, Berlin, N. H. Method of and apparatus for selecting fiber. 1,786,973; Dec. 30.
Weeks, Ernest A., assignor to Root Spring Scraper Company, Kalamazoo, Mich. Road scraper. 1,786,803; Dec. 30.
Wehrle Company, The. (See Pickup, George E., assignor.)
Weil, Maurice I., assignor to Chicago Pump Company, Chicago, Ill. Constant-water-supply system. 1,786,804; Dec. 30.
Weiss, Alfred H., Wilmette, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Ignition and lighting switch. 1,787,058; Dec. 30.
Weiss, Valentin, Berlin-Weissensee, assignor to the Firm Jaroslaws Erste Glimmerwarenfabrik, Berlin, Germany. Loom picker. 1,787,182; Dec. 30.
Wellemeyer, Arthur, Klemme, Iowa. Combined display and dispensing apparatus. 1,787,347; Dec. 30.
Wells, Reginald E., East Orange, N. J., assignor to General Motors Corporation, Detroit, Mich. Roller bearing. 1,786,926; Dec. 30.
Wendel, Ada B., Smithland, Iowa. Shade and curtain fixture. 1,787,097; Dec. 30.

Wensley, Roy J., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Supervisory-control system. 1,786,805; Dec. 30.
Wenzel, John, Chillicothe, Ohio. Doctor for paper-making machines. 1,786,587; Dec. 30.
Westberg, Sigurd, Germantown, Pa. Refining iron and steel. 1,786,806; Dec. 30.
Westinghouse Electric & Manufacturing Company. (See Aspinwall, Louis M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Callsen, Albert, assignor.)
Westinghouse Electric & Manufacturing Company. (See Carrington, M., and Klinck, assignors.)
Westinghouse Electric & Manufacturing Company. (See Cochran, Paul B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Davies, David R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Flanders, Warren B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Fletcher, Lindsey C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Gibbs, Jesse B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Guy, Henry L., assignor.)
Westinghouse Electric & Manufacturing Company. (See James, Henry D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Krantz, Hubert K., assignor.)
Westinghouse Electric & Manufacturing Company. (See Marbury, Ralph E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Miller, Frederic H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Pierce, Raymond T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Smith, Harold B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Terry, Matson, C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Thomas, Phillips, assignor.)
Westinghouse Electric & Manufacturing Company. (See von Hoorn, Fred G., assignor.)
Westinghouse Electric & Manufacturing Company. (See von Kandó, Kalman, assignor.)
Westinghouse Electric & Manufacturing Company. (See Wahlberg, Nils A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wensley, Roy J., assignor.)
Westinghouse Electric & Manufacturing Company. (See White, Thomas U., assignor.)
Westinghouse Electric & Manufacturing Company. (See Zworykin, Vladimir K., assignor.)
Wheeler, Harvey C. (See Thompson, Charles W., assignor.)
White, Floyd E., Winamac, Ind. Electric clock. 1,787,059; Dec. 30.
White, Harry B., Canton, Ohio, assignor to The Hoover Company. Suction cleaner. 1,787,224; Dec. 30.
White, Herbert J., assignor to Gleason Works, Rochester, N. Y. Completely automatic gear-cutting machine. 1,786,689; Dec. 30.
White, Thomas U., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Supervisory control system. 1,786,807; Dec. 30.
Whitsitt, William B., and W. R. Iiedeman, Baltimore, Md. Superheater tube. 1,786,882; Dec. 30.
Whitworth, Bevill W., Omaha, Nebr. Automatic shade-roller stop. 1,786,512; Dec. 30.
Whyte, John, Beloit, Wis., assignor to Warner Electric Brake Corporation, South Beloit, Ill. Brake. 1,786,808; Dec. 30.
Wiegelmann, Hubert, Neheim, Germany. Device for producing shadow lines on work pieces. 1,786,925; Dec. 30.
Wiess, Harry C., Houston, Tex., assignor to Standard Oil Development Company. Vacuum distillation of hydrocarbon oils. 1,786,639; Dec. 30.
Wilcox, George, Riverside, Calif., assignor to California Canning Machinery Co., Los Angeles, Calif. Peach pitter. 1,786,724; Dec. 30.
Wild, Gunther P., Philadelphia, Pa. Door fastener. 1,787,296; Dec. 30.
Wild, Henry W., and P. A. Reutter, assignors to Scovill Manufacturing Company, Waterbury, Conn. Cosmetic holder. 1,787,183; Dec. 30.
Wilhelm, John H., Rockaway Beach, Long Island, assignor to Markon Manufacturing Co., Inc., New York, N. Y. Doll eyes. 1,786,588; Dec. 30.
Willard Storage Battery Company. (See Dunzweiler, Carl J., assignor.)
Williams, Julius E., Willoughby, Ohio, assignor, by mesne assignments, to Republic Steel Corporation. Nut-feeding mechanism. 1,786,469; Dec. 30.
Williamson, Alva, San Bernardino, Calif. Tilting device for vehicles. 1,786,589; Dec. 30.
Wilson, Donald R., Peshastin, Wash. Nail tongs. 1,787,331; Dec. 30.
Wilson, John, Chicago, Ill., assignor to Ilg Electric Ventilating Co. Regulating the speed of induction motors. 1,787,133; Dec. 30.
Wilson, Thomas A. D. and E. Reynolds, Dunedin, New Zealand. Radio circuit testing unit. 1,786,555; Dec. 30.
Window Glass Machine Company. (See Byrnes, Clarence P., assignor.)
Winter, Henry, Baltimore, Md. Window-sash fastener. 1,786,470; Dec. 30.
Wireless Music Limited. (See Trouton, Maurice, assignor.)
Wireless Specialty Apparatus Company. (See Proctor, J. A., and Bailey, assignors.)
Wise, Solomon, Cincinnati, Ohio. Locking device for automotive equipment. 1,787,134; Dec. 30.
Wittek, Herbert, Beuthen, Germany. Reducing ores. 1,787,348; Dec. 30.
Wittkuhns, Bruno, New York, N. Y., assignor to the firm Magnet-Werk G. m. b. H. Eisenach Spezialfabrik fur Elektromagnet-Apparate, Eisenach, Germany. Electromagnetic coupling. 1,787,225; Dec. 30.
Wohl, Alfred, Danzig-Langfuhr, Free City of Danzig, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Catalytic oxidation of organic compounds. 1,787,416; Dec. 30.
Wohl, Alfred, Danzig-Langfuhr, Free City of Danzig, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Catalytic oxidation of organic compounds. 1,787,417; Dec. 30.
Wolf, Frank, New York, N. Y. Attachment for containers. 1,787,060; Dec. 30.
Wolf, Frank, New York, N. Y. Accessory for containers. 1,787,061; Dec. 30.
Wolf, Harry, assignor to Cutter-Crossette Company, Chicago, Ill. Necktie. 1,787,226; Dec. 30.
Wolfermann, Carl E. E., New York, N. Y. Collapsible roof body for automobiles. 1,786,927; Dec. 30.
Wolff, Nathan, New York, N. Y. Union suit. 1,787,098; Dec. 30.
Wolverine Carburetor Company. (See Atkins, Edward G., assignor.)
Wolyn, David F., Woodmere, N. Y. Silent bridge bidding device. 1,786,809; Dec. 30.
Wood, Andrew C., assignor, by mesne assignments to Vortex Cup Company, Chicago, Ill. Vehicle service tray. 1,786,471; Dec. 30.
Wood, J. R., & Sons, Inc. (See Burgess, Andrew O., assignor.)
Wood, Joseph D., Quincy, assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass. Electric switch. 1,787,227; Dec. 30.
Wood, William A. (See Bindschedler, T. S., and Wood.)
Woodbury Shoe Mfg. Co. (See Johnson, William A., assignor.)
Woodul, Walter F. (See Yates, Paul C., assignor.)
Woolworth, F. W., Company. (See Payne, James M., jr. assignor.)
Worcester Loom Works. (See Alvord, Clinton, assignor.)
Woroshilow, Anatoly P. (See Lurie, M. J., and Woroshilow.)
Wright, Wilbur L., assignor to Oswego Falls Corporation, Fulton, N. Y. Tapered or nesting paper can. 1,787,332; Dec. 30.
Wrigley, Sylvanus E., Sturgeon Creek, Manitoba, Canada. Tent. 1,786,928; Dec. 30.
Yale, Chester. (See Schoenberger, Paul, assignor.)
Yates, Paul C., assignor of one-fourth to W. F. Woodul, Houston, Tex. Airfoil. 1,786,472; Dec. 30.
Yawman & Erbe Manufacturing Company, The. (See Furlong, Roland A., assignor.)
Yecker, Joseph C., Lancaster, Pa. Glider plane. 1,787,297; Dec. 30.
Yoder, Howard D., assignor to Penberthy Injector Company, Detroit, Mich. Flexible coupling for pumps. 1,786,810; Dec. 30.
Ytterberg, Arle, Hogberget, Ludvika, and I. Herlitz, Magnet, Ludvika, assignors to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Exciting means for direct-current generators. 1,787,028; Dec. 30.
Zahonyi, Louis W., St. Paul, Minn. Highway-sign bracket. 1,786,883; Dec. 30.
Zalesky, Frank J., Buckholts, Tex. Agricultural implement. 1,787,228; Dec. 30.
Zeier, Frederick F., assignor to Union Special Machine Company, Chicago, Ill. Throat-plate support for sewing machines. 1,786,929; Dec. 30.
Zeininger, Gustav A., Oberesslingen, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Acoustic signaling apparatus. 1,786,930; Dec. 30.
Zeiss, firm: Carl. (See Hansen, Gerhard, assignor.)
Zeiss, firm of Carl. (See Merté, Willy, assignor.)
Zell, David H., Brooklyn, N. Y. Savings bank. 1,786,725; Dec. 30.
Zell, David H., Brooklyn, N. Y. Savings bank. 1,786,811; Dec. 30.
Zimmerman, William F., Waverly, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Tool retainer for pneumatic tools. 1,787,229; Dec. 30.
Ziola, Henry A., Milwaukee, Wis., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Radio dial control. 1 787,298; Dec. 30.
Zornig, Hermann H., Newhall, Iowa, and A. F. Teitscheid, Wharton, N. J. Combination fuse for projectiles. 1,786,640; Dec. 30.
Zuckerman, Roscoe C., Stockton, Calif. Sponge pad. 1,786,513; Dec. 30.
Zworykin, Vladimir K., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Facsimile transmission system. 1,786,812; Dec. 30.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 30TH DAY OF DECEMBER, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Acid, Preparation for 2-halogen-para-phenyl-ortho-benzoyl-benzoic. P. H. Groggins. 1,786,527; Dec. 30.
Acid, Preparation of 4-halogen-para-phenyl-ortho-benzoyl-benzoic. P. H. Groggins. 1,786,526; Dec. 30.
Acid, Preparation of para-phenoxy-ortho-benzoyl-benzoic. P. H. Groggins. 1,786,532; Dec. 30.
Acid, Preparation of 2-amino-para-phenyl-ortho-benzoyl-benzoic. P. H. Groggins. 1,786,529; Dec. 30.
Acid, Preparing 4-amino-para-phenyl-ortho-benzoyl-benzoic. P. H. Groggins. 1,786,528; Dec. 30.
Acoustic diaphragm. V. A. Schlenker. 1,787,055; Dec. 30.
Acoustic signaling apparatus. G. A. Zeininger. 1,786,930; Dec. 30.
Adhesive compound and making same. W. Alexander. 1,786,417; Dec. 30.
Advertising device, Light. A. Abel. 1,787,333; Dec. 30.
Aeroplane for horizontal and vertical flight. J. E. Noeggerath. 1,786,545; Dec. 30.
Aeroplane wing. W. S. Hall. 1,787,370; Dec. 30.
Agricultural implement. J. B. Verhoff. 1,787,026; Dec. 30.
Agricultural implement. F. J. Zalesky. 1,787,228; Dec. 30.
Air cleaner and coupling. F. A. Donaldson. 1,787,235; Dec. 30.
Air compressor. B. Bischof. 1,786,595; Dec. 30.
Aircraft. E. Rubin. 1,787,325; Dec. 30.
Aircraft, Safety. W. C. Ward. 1,787,293; Dec. 30.
Airfoil. P. C. Yates. 1,786,472; Dec. 30.
Airplane-landing device. A. C. Gonzalez. 1,786,649; Dec. 30.
Airplane wing. M. Orr. 1,787,321; Dec. 30.
Airplanes. Controlling means for. G. W. Lyons. 1,786,668; Dec. 30.
Air-speed indicator. W. Gilbert. 1,786,841; Dec. 30.
Alarm system, Fire-. V. Durbin. 1,786,524; Dec. 30.
Alcohols, Production of. O. Loehr. 1,787,205; Dec. 30.
Alkalies, Continuous production of fused caustic. E. Bürgin and W. Schmid. 1,786,516; Dec. 30.
Alkaline ferric solution, Stable. W. J. Huff, D. L. Jacobson, and W. H. Hill. 1,786,490; Dec. 30.
Alumina by electrothermal reduction of the impurities in alumina containing raw materials, Making pure. H. Siegens. 1,787,124; Dec. 30.
Anthracene, Catalytic oxidation of. A. O. Jaeger. 1,786,950; Dec. 30.
Apparel, Wearing. F. C. Merrilies. 1,787,117; Dec. 30.
Aqueous dispersions, Apparatus for producing. A. L. Clapp. 1,787,339; Dec. 30.
Aqueous dispersions, Producing. A. L. Clapp. 1,787,338; Dec. 30.
Arc-quenching material. G. Steerup. 1,786,581; Dec. 30.
Articles consisting of regenerated cellulose, Desulphurizing. W. Eller and T. Madlung. 1,786,941; Dec. 30.
Auger and stoppage grip, Closet. R. A. King. 1,787,112; Dec. 30.
Automatic recording means for dump cars. E. W. Schellentrager. 1,787,287; Dec. 30.
Automobiles and the like, Mechanism for operating upon metal parts of. G. L. Hunt. 1,786,847; Dec. 30.
Bait, Artificial. W. G. Kutz. 1,786,568; Dec. 30.
Baking apparatus. W. Ebrhart. 1,786,485; Dec. 30.
Balloon spinner. B. C. Merritt. 1,787,159; Dec. 30.
Band-stretching machine. W. E. Humphrey. 1,787,423; Dec. 30.
Bank, Savings. D. H. Zell. 1,786,725; Dec. 30.
Bank, Savings. D. H. Zell. 1,786,811; Dec. 30.
Bar: *See*—
  Bus bar.
Base-exchanging properties, Increasing. O. Liebknecht. 1,787,008; Dec. 30.
Basket. E. V. Hawkins. 1,786,998; Dec. 30.
Battery: *See*—
  Storage battery.
Bearing, Antifriction. J. E. Shafer. 1,787,214; Dec. 30.
Bearing, Demountable sheave. S. H. H. Parsons. 1,786,741; Dec. 30.
Bearing, Knife-edge. R. F. H. Caillaud. 1,786,424; Dec. 30.
Bearing, Roller. R. E. Wells. 1,786,926; Dec. 30.
Bearing, Thrust. A. E. Freeman. 1,786,565; Dec. 30.
Bearings, Making sheet-metal. W. H. Klocke. 1,787,255; Dec. 30.
Bearings on arbors in multiple, Mounting. L. C. Blomstrom. 1,786,557; Dec. 30.
Bed, Invalid. A. Iplicjian. 1,787,380; Dec. 30.
Bedpost or similar article. T. G. Kindel. Des. 82,945; Dec. 30.
Beetle trap. E. S. Bullock. 1,786,599; Dec. 30.
Beetle trap. W. A. Ruddell. 1,787,421; Dec. 30.
Beets, Method of and apparatus for handling. L. B. Neighbour and F. A. Thomann. 1,787,161; Dec. 30.
Belt, Metal and rubber track. A. Kégresse. 1,786,539; Dec. 30.
Bent-tube boiler. L. J. Marshall. 1,786,913; Dec. 30.
Bidding device, Silent bridge. D. F. Wolyn. 1,786,809; Dec. 30.
Binder, Loose-leaf. J. Barker. 1,786,816; Dec. 30.
Binder, Visible index. J. L. McMillan. 1,786,857; Dec. 30.
Blade-attaching means for windshield wipers. A. F. Gillet. 1,787,068; Dec. 30.
Blank feeding and gluing device. H. Carle. 1,786,476; Dec. 30.
Blank-separating mechanism. H. Carle. 1,786,477; Dec. 30.
Bleaching agent and making the same. W. B. Stoddard and V. R. Kokatnur. 1,787,402; Dec. 30.
Block: *See*—
  Loading block.
Blocks, Method of and apparatus for scoring. F. Trotter and A. Swanson. 1,787,219; Dec. 30.
Blood of a mass capable of being colored, Manufacture from. F. Homberg. 1,786,488; Dec. 30.
Blower. E. L. Anderson. 1,787,062; Dec. 30.
Board: *See*—
  Gypsum wall board. Sounding board.
Bobbin for electrical feelers. E. R. Holmes. 1,786,654; Dec. 30.
Bobbin for weft-replenishing looms. R. G. Turner. 1,786,682; Dec. 30.
Bodice, Bust. M. Cadolle. 1,786,895; Dec. 30.
Body panels, Flanging. O. J. Groehn. 1,787,151; Dec. 30.
Boiler: *See*—
  Bent-tube boiler. Steam boiler.
Boiler installation, High-pressure-. J. B. Crane and L. J. Marshall. 1,786,828; Dec. 30.
Bookholder. C. J. Hilkey. 1,786,567; Dec. 30.
Book, Loose-leaf. L. E. Hutchings. 1,786,617; Dec. 30.
Book with page-ruling attachment therefor. P. H. Kaufman. 1,787,005; Dec. 30.
Boots or shoes, Device for use in the manufacture of. W. A. Johnson. 1,786,619; Dec. 30.
Bottle-blowing machine. H. Hillmann. 1,787,312; Dec. 30.
Bottle capper. E. R. Leighton. 1,786,760; Dec. 30.
Bottle caps, Removing. N. P. Porz. 1,787,018; Dec. 30.
Bottle-straightening device. A. P. Ekvall. 1,786,939; Dec. 30.
Box: *See*—
  Cigarette and match box. Stuffing box.
  One-piece box.
Box. M. Feybusch. 1,786,743; Dec. 30.
Bracelet construction. O. L. Gammell. 1,786,943; Dec. 30.
Bracket: *See*—
  Car-wind-wing bracket. Sign bracket.
Brake: *See*—
  Fluid-pressure brake. Motor-operated brake.
  Hydraulic brake. Torque brake.
  Internal-expansion brake. Vehicle brake.
Brake. J. Whyte. 1,786,808; Dec. 30.
Brake control. G. F. Michael. 1,786,670; Dec. 30.
Brake for motor vehicles, Clutch. A. Moorhouse. 1,787,160; Dec. 30.
Brake mechanism. F. O. Vaughn. 1,786,970; Dec. 30.
Brake-resistance device for winding machines, Variable. J. A. Cameron. 1,787,104; Dec. 30.
Braking mechanism for automobiles and other motor or power driven vehicles. G. R. Hoffman. 1,787,377; Dec. 30.
Bricklaying machine. F. C. Layer. 1,786,622; Dec. 30.
Building construction. W. D. Belding. 1,786,691; Dec. 30.
Building construction. T. Rowan. Re17,913; Dec. 30.
Building insulation. B. E. Balduf. 1,786,732; Dec. 30.
Building slab. J. H. Powers. 1,787,166; Dec. 30.
Bumper for motor cars and automobiles. R. Reynolds. 1,786,865; Dec. 30.
Buoy for seaside resorts, Pleasure. M. W. Iden. 1,786,658; Dec. 30.
Bus bar, Sectional electrical. D. R. Davies. 1,786,880; Dec. 30.
Bushing. E. Cooper. 1,786,826; Dec. 30.
Button. I. D. Ford. 1,786,839–40; Dec. 30.
Cabinet, Refrigerator. R. W. Hull. 1,787,379; Dec. 30.
Cabinet slide, Index-. H. Turner. 1,787,344; Dec. 30.

Cabinet, Towel. C. W. Thompson. 1,786,966; Dec. 30.
Cables, Terminal housing for. A. O. Austin. 1,786,731; Dec. 30.
Calculating machine. W. B. Payne, R. E. Bohrer, and W. Fuhlborn. 1,787,259; Dec. 30.
Camera and method of photography. J. F. Seitz. 1,787,023; Dec. 30.
Cameras, Audible footage meter and exposed film indicator for motion-picture. A. C. Hayden. 1,787,271; Dec. 30.
Can: *See*—
  Paper can.
Can-body makers, Attachment for. J. H. Renshaw. 1,787,324; Dec. 30.
Can opener. C. A. Liquori. 1,787,046; Dec. 30.
Cans in ice-cream cabinets, Method and apparatus for positioning and sealing ice-cream. L. G. Copeman. 1,786,827; Dec. 30.
Cap. C. D. Hollenbeck. 1,787,378; Dec. 30.
Cap and making the same, Knitted. D. Karger. 1,787,043; Dec. 30.
Car or carriage, Baby. J. W. Leek. 1,786,663; Dec. 30.
Car, Poultry. I. V. Edgerton. 1,786,427; Dec. 30.
Car stake-straightening device, Coal-. C. E. Strausbaugh. 1,787,095; Dec. 30.
Car wind-wing bracket, Closed-. W. E. Shehan and G. Bell. 1,786,635; Dec. 30.
Car with closed carriage body into a platform lorry, Transformer of a motor. W. Bliss. 1,786,693; Dec. 30.
Carbon deposits from cylinders, Removing. T. Midgley, jr., and C. A. Hochwalt. 1,786,860; Dec. 30.
Carburetor. E. G. Atkins. 1,787,230; Dec. 30.
Carburetor. O. H. Ensign. 1,787,148; Dec. 30.
Carburizing apparatus, Operating. R. Kaier. 1,786,951; Dec. 30.
Cargo-discharging apparatus for ships. L. A. Stinson. 1,787,025; Dec. 30.
Carrier for dispatch systems. F. W. MacMartin. 1,787,206; Dec. 30.
Cash register. W. H. Robertson. 1,786,454; Dec. 30.
Cash register. B. M. Shipley. 1,786,964; Dec. 30.
Casing for a weighing and vending machine. O. D. Jennings. Des. 82,943; Dec. 30.
Casing ripper. R. Althansen. 1,786,590; Dec. 30.
Casing shoe and valve. J. Q. Little. 1,786,761; Dec. 30.
Casting machine for battery grids. D. Pepper. 1,786,629; Dec. 30.
Catch and combination lock, Keyless. G. J. Nyrose. 1,786,447; Dec. 30.
Cellular composition and making same. H. L. Fisher. 1,786,563; Dec. 30.
Cellulose and textile fibers from vegetable matter, Manufacturing. C. A. Braun. 1,786,890; Dec. 30.
Cellulose of any kind, Bleaching. L. Rys. 1,787,395; Dec. 30.
Centrifugal bowl separator. C. Schmitz. 1,786,921; Dec. 30.
Chain. C. E. Dansereau. 1,787,405; Dec. 30.
Chain manufacture, Apparatus for. R. W. Dull. 1,786,707; Dec. 30.
Chain or traveling-grate stoker. W. M. Duncan. 1,786,646; Dec. 30.
Chair: *See*—
  Collapsible chair.
Chair or similar article. E. Hauser. Des. 82,937–8; Dec. 30.
Chair, table, and bed, Combined. W. A. Graham and W. F. Doyle. 1,787,245; Dec. 30.
Change maker. A. F. Nelson. 1,787,085; Dec. 30.
Check-controlled mechanism. A. D. Antoine. 1,787,099; Dec. 30.
Check writer. R. E. Bohrer, W. B. Payne, and C. G. Tiefel. 1,787,234; Dec. 30.
Chopper: *See*—
  Cotton chopper.
Cigar machines, Bunch transfer for. J. F. Halstead. 1,786,608–9; Dec. 30.
Cigarette and match box, Combination. E. Derwish. 1,787,361; Dec. 30.
Circuit breaker. F. G. Von Hoorn. 1,786,796–8; Dec. 30.
Circuit closer, Prison bar and alarm system. W. M. Barton. 1,787,350; Dec. 30.
Circuit-controlling device. G. R. Townsend. 1,787,292; Dec. 30.
Clamp: *See*—
  Hose clamp. Strap clamp.
Clay, Sintering. J. E. Greenawalt. 1,786,714; Dec. 30.
Cleaner: *See*—
  Gun cleaner. Vacuum cleaner.
  Suction cleaner.
Cleaning device, Internal-combustion engine. F. F. Cowherd. 1,787,360; Dec. 30.
Cleaning implement. F. W. Stein. 1,786,723; Dec. 30.
Cleaning machine, Used journal-box-waste. T. M. Lawson. 1,787,156; Dec. 30.
Clip: *See*—
  Comb clip.
Clock case. N. F. Thompson, jr. Des. 82,961; Dec. 30.
Clock, Electric. F. E. White. 1,787,059; Dec. 30.
Closet bowl, Water-. H. F. Weaver. Des. 82,963; Dec. 30.
Closure, Bag. J. K. Diamond. 1,786,426; Dec. 30.
Clothes washer and drier, Mechanical. P. E. Geldhof. 1,787,243; Dec. 30.
Clothes washer, Mechanical. P. E. Geldhof. 1,787,244; Dec. 30.
Clothlike fabric. M. J. Shoemaker. 1,786,781; Dec. 30.
Clutch. A. D. Gargolinski. 1,786,708; Dec. 30.
Clutch and brake bands, Operating mechanism for. G. M. Harry and C. Sternberger. 1,786,749; Dec. 30.
Clutch, Differential. J. T. Hustvet. 1,786,492; Dec. 30.
Clutch driving mechanism, Friction-. K. Maier. 1,786,955; Dec. 30.
Clutch for Axminster-loom tube frames. J. Lyle. 1,786,667; Dec. 30.
Coal separator. P. Tarone and J. Rowland. 1,787,096; Dec. 30.
Cock or faucet for fluids. N. W. Bancroft. 1,786,885; Dec. 30.
Coil, Choke. A. B. Dibner. 1,786,604; Dec. 30.
Coin depository. H. Walker. 1,786,466; Dec. 30.
Collapsible chair. W. J. Bauer. 1,786,473; Dec. 30.
Collar and cuff. E. C. Larson. 1,787,113; Dec. 30.
Collar, Soft. J. Hillman. 1,786,535; Dec. 30.
Color-slide control for multicolor magazines. A. A. Gordon. 1,786,711; Dec. 30.
Coloring matter of the anthracene series. I. Gubelmann, R. J. Goodrich and W. Dettwyler. 1,787,069; Dec. 30.
Comb clip, Pocket. F. D. Perry. 1,786,674; Dec. 30.
Combination hanger. S. E. Livingston. Des. 82,948; Dec. 30.
Combustion-control apparatus. T. A. Peebles. 1,787,407; Dec. 30.
Composition for use in the manufacture of rubber and the like. C. O. North. 1,787,258; Dec. 30.
Compounds of the thiazolic series and making same, New. H. P. Kaufmann and M. Schubert. 1,787,315; Dec. 30.
Compounds of the thiazolic series, New. H. P. Kaufmann and M. Schubert. 1,787,316; Dec. 30.
Compressing machine. F. J. Stokes. 1,786,637; Dec. 30.
Compressor, Rotary fluid. A. T. Burger. 1,786,893; Dec. 30.
Computing machine. M. M. Goldberg. 1,786,525; Dec. 30.
Concrete structure and making same. C. R. Geisler. 1,787,149; Dec. 30.
Condensation product of aromatic sulphonic acids. F. Pospiech. 1,787,408; Dec. 30.
Condenser. R. R. Collins. 1,787,144; Dec. 30.
Condenser, Electric. J. A. Proctor and W. M. Bailey. Re17,916; Dec. 30.
Conditioning machine. V. Cano. 1,787,063; Dec. 30.
Conduit and making same. L. M. Christie. 1,786,425; Dec. 30.
Confection, Frozen. E. L. Gordon. 1,786,606; Dec. 30.
Connecter, Automatic. J. Robinson. 1,787,122; Dec. 30.
Connecter, Electrical. W. H. Broer. 1,786,598; Dec. 30.
Connecting means for rafters. F. L. Purdy. 1,787,167; Dec. 30.
Connecting mechanism for jacquard levers. E. R. Holmes. 1,786,656; Dec. 30.
Connecting rod. B. B. Briggs. 1,786,934; Dec. 30.
Container and display device, Combination. H. C. Warner. 1,787,222; Dec. 30.
Container, Face-powder. A. E. Sierad. Des. 82,960; Dec. 30.
Container for barbers, Sterilizing. C. C. Betzer. 1,786,594; Dec. 30.
Container, Multiple-compartment. G. A. Pfeiffer. 1,787,283; Dec. 30.
Container or box for motor vehicles and the like, Shipping. J. Campbell. 1,787,305; Dec. 30.
Containers, Accessory for. F. Wolf. 1,787,061; Dec. 30.
Containers, Attachment for. F. Wolf. 1,787,060; Dec. 30.
Control system. E. F. W. Alexanderson. 1,787,299; Dec. 30.
Control system. K. Von Kando. 1,786,799; Dec. 30.
Conveyer mechanism. F. R. Quick. 1,786,779; Dec. 30.
Conveyer table. E. W. Mikaelson. 1,786,575; Dec. 30.
Conveying or delivering biscuits or like articles. H. Kirman and G. R. Baker. 1,787,254; Dec. 30.
Cooling system for outboard motors, Water-. O. Evinrude. 1,786,835; Dec. 30.
Cord hanger. C. M. Glazener. 1,787,106; Dec. 30.
Corn popper. J. H. Reichart. 1,786,507; Dec. 30.
Corn popper. E. B. Thompson. 1,786,877; Dec. 30.
Corner for burial casket. R. P. Henderson. Des. 82,941–2; Dec. 30.
Cotton-boll extracting and cleaning device. G. E. Evans. 1,786,904; Dec. 30.
Cotton chopper. J. A. Laird. 1,786,661; Dec. 30.
Cotton picker. E. A. Johnston, B. R. Benjamin, D. B. Baker, and C. R. Hagen. 1,786,851; Dec. 30.
Coupling: *See*—
  Electric coupling. Pipe coupling.
  Electromagnetic coupling. Tool-retaining coupling.
  Hose coupling.
Coupling device. R. Kemlein. 1,787,203; Dec. 30.
Coupling for pumps, Flexible. H. D. Yoder. 1,786,810; Dec. 30.
Coupling pin, Car. W. J. Simmons, sr. 1,786,872; Dec. 30.
Cover attaching and locking means. E. C. Wamelink. 1,786,802; Dec. 30.

Cover for cooking vessels. A. Rohrmann and H. Schmidt. 1,787,172; Dec. 30.
Covering, Process and apparatus for the production of felt base floor. J. B. Campbell. 1,787,140; Dec. 30.
Creasing and cutting machine. J. T. Robinson and H. F. Cook. 1,787,170; Dec. 30.
Cribbing. J. S. Huntoon. 1,787,199–200; Dec. 30.
Crimping machine. J. M. Christman. 1,787,142; Dec. 30.
Crusher: *See*—
Hammer crusher.
Crystallization process. W. E. Burke. 1,787,356; Dec. 30.
Culinary means. A. Rohrmann and H. Schmidt. 1,787,171; Dec. 30.
Cup: *See*—
Teat cup.
Current generator, Alternating. T. S. Bindschedler and W. A. Wood. 1,786,888; Dec. 30.
Current impulses, Indicating. O. Lohaus. 1,786,666; Dec. 30.
Curtain-rod structure. G. W. Dover. 1,786,645; Dec. 30.
Cushion-tire bases, Bridging ring for. H. L. Mueller. 1,786,957; Dec. 30.
Cut-off for cigarette machines. R. J. A. Chandler. 1,786,519; Dec. 30.
Cut-outs, Secondary contact spring for plug. E. L. Hawley. 1,787,109; Dec. 30.
Cutter: *See*—
Paper cutter. Stalk cutter.
Cutting machine, Board-. C. Absmeier. 1,786,726; Dec. 30.
Cutting machine, Fish-. A. R. Rogers. 1,786,632; Dec. 30.
Cyanides, Recovering. R. R. Bryan. 1,787,033; Dec. 30.
Cylinders, Apparatus for driving hollow. F. H. Hunt. 1,787,000; Dec. 30.
Decking device for freight cars. A. Copony. 1,786,735–6; Dec. 30.
Deflection of a conical pencil of imaging rays, Device for partial. G. Hansen. 1,787,269; Dec. 30.
Dental apparatus. D. W. McLean. 1,786,915; Dec. 30.
Desk. M. Carrington and J. H. Klinck. 1,786,823; Dec. 30.
Desk, Card-record. E. Ohnstrand. 1,786,628; Dec. 30.
Desk, Folding. W. B. Fahnestock. 1,787,363; Dec. 30.
Detector: *See*—
Leak detector.
Diathermic treatment of the human body, Device for the. E. Last. 1,786,541; Dec. 30.
Dishwashers, Impeller for mechanical. F. A. Walker. 1,787,220; Dec. 30.
Disk harrow. W. R. Peterson. 1,786,863; Dec. 30.
Dispersion and making the same. R. W. Lewis. 1,787,418; Dec. 30.
Display and dispensing apparatus, Combined. A. Wellemeyer. 1,787,347; Dec. 30.
Display and vending case, Combined. R. M. Messinger. Des. 82,951; Dec. 30.
Display jar, Agitating. A. E. Repenning and C. J. Howel. 1,786,450; Dec. 30.
Display matter, Device for the production of apparently-moving. A. Abel. 1,787,334; Dec. 30.
Display stand, Advertising powder-puff-. S. L. Pomerantz. Des. 82,956; Dec. 30.
Distillation apparatus. L. J. Simon. 1,787,399; Dec. 30.
Distributor, Automatic ensilage. A. A. Sievert. 1,786,677; Dec. 30.
Dobby heads, Attachment for reversible. W. M. Wattie. 1,786,687; Dec. 30.
Doll eyes. S. Marcus. 1,787,572; Dec. 30.
Doll eyes. J. H. Wilhelm. 1,786,588; Dec. 30.
Dolls' heads, Mouth equipment for. S. Marcus and A. Konoff. 1,787,207; Dec. 30.
Door. D. C. Bakehouse. 1,787,302; Dec. 30.
Door. B. B. Kahn. 1,786,429; Dec. 30.
Doorcheck. - M. L. Dodge. 1,787,147; Dec. 30.
Door closer, Automatic. H. W. Shonnard. 1,786,782; Dec. 30.
Door construction, Garage-. W. D. Ferris. 1,787,238; Dec. 30.
Door-control apparatus. R. Hill. 1,787,073; Dec. 30.
Door for railway hopper cars. G. G. Gilpin. 1,786,747; Dec. 30.
Door lock. J. Holtzman. 1,787,272; Dec. 30.
Draft member. M. H. Martin. 1,786,914; Dec. 30.
Draft regulator, Automatic. C. J. Ashley. 1,786,931; Dec. 30.
Draft rigging. D. S. Barrows. 1,786,419; Dec. 30.
Drain connection. E. F. Niedecken. 1,786,771; Dec. 30.
Drain, floor. E. W. N. Boosey. 1,786,558; Dec. 30.
Drainage fitting. E. W. N. Boosey. 1,786,597; Dec. 30.
Drawer pull. J. A. McBride. Des. 82,949; Dec. 30.
Drier: *See*—
Rotary drier. Salt drier.
Drier for sand and the like. H. W. Nagel. 1,787,280; Dec. 30.
Drilling system, Rotary earth-. H. D. James. 1,786,755; Dec. 30.
Drinking fountain, Poultry. E. J. J. Mueller. 1,787,015; Dec. 30.
Drive mechanism, Carpet-sweeper brush-. F. W. Pullen. 1,786,864; Dec. 30.
Dry cells, Making. W. F. Hendry. 1,786,945; Dec. 30.
Drying and rinsing apparatus, Centrifugal clothes. P. E. Geldhof. 1,787,242; Dec. 30.
Drying machine, Centrifugal. T. A. Bryson. 1,786,475; Dec. 30.
Dusting device, Automatic tube-. P. W. Lehman. 1,786,437; Dec. 30.
Economizer. G. P. Jackson, K. Toensfeldt, and H. Steele. 1,786,909; Dec. 30.
Electric barriers and the like, Securing. P. Nicholay. 1,786,446; Dec. 30.
Electric coupling. F. Coates. 1,786,600; Dec. 30.
Electric discharge device. E. F. W. Alexanderson. 1,787,300; Dec. 30.
Electric regulator or overload-limiting apparatus, Automatic. A. Barbagelata. 1,787,303; Dec. 30.
Electric switch. F. B. Adsm. 1,786,727; Dec. 30.
Electric switch. G. A. Burgess. 1,786,935; Dec. 30.
Electric switch. C. Thumlm. 1,787,291; Dec. 30.
Electric switch. J. D. Wood. 1,787,227; Dec. 30.
Electric transformer. S. Z. De Ferranti. 1,786,899; Dec. 30.
Electrical plug receptacle. G. J. Meuer. 1,787,084; Dec. 30.
Electromagnetic coupling. B. Wittkuhns. 1,787,225; Dec. 30.
Electromagnetic draining device. H. Van Keuren. 1,786,878; Dec. 30.
Electromagnetic sound-producing device. J. H. Van Wagenen. 1,786,465; Dec. 30.
Electrooptical system. R. V. L. Hartley. 1,786,652; Dec. 30.
Electroplating apparatus. K. Baranowski. 1,786,592; Dec. 30.
Electrostatic reproducer. R. H. Leffler. 1,786,436; Dec. 30.
Engine: *See*—
Internal-combustion engine.
Engines, Fuel-injecting device for internal-combustion. K. J. E. Hesselman. 1,786,844; Dec. 30.
Engines, Fuel-injection device for explosion. F. Hofmann. 1,786,946; Dec. 30.
Ensilage distributor. F. C. Reinke. 1,787,261; Dec. 30.
Excavating apparatus. F. H. Hunt and F. A. Schroeder. 1,787,001; Dec. 30.
Expansion joint. D. S. Boyden. 1,786,642; Dec. 30.
Expansion joint. F. Ray. 1,786,506; Dec. 30.
Extracting pyrethrum. W. J. Trevillian. 1,786,967; Dec. 30.
Fabric: *See*
Cloth-like fabric. Pile fabric.
Knitted fabric.
Fabric. C. F. Lee. 1,786,569; Dec. 30.
Fan. J. Karageorge. Des. 82,944; Dec. 30.
Fare indicator. K. Gehlen. 1,786,745; Dec. 30.
Farrowing house. E. B. Morris. 1,786,769; Dec. 30.
Fastener, Door. G. P. Wild. 1,787,296; Dec. 30.
Fastener for fruit baskets, Adjustable. O. O. Kendall. 1,787,202; Dec. 30.
Fastener, Hood. C. S. Ricker. 1,786,452; Dec. 30.
Fastener, Separable. P. A. Aronson. 1,786,978; Dec. 30.
Fastener, Snap. C. F. and M. V. Clark. 1,787,143; Dec. 30.
Fastener, Window-sash. H. Winter. 1,786,470; Dec. 30.
Feeder. G. F. Pfeiffer. 1,786,777; Dec. 30.
Feeder and disintegrator or mixer. R. V. Arnold, E. E. Flickinger, and S. E. Wantz. 1,786,556; Dec. 30.
Feeders, Adjustable guard for poultry. D. E. Speicher. 1,787,330; Dec. 30.
Fence-post connection. J. B. Mascrang. 1,786,573; Dec. 30.
Fertilizer distributor. W. L. Beall. 1,786,886; Dec. 30.
Fiber, Method of and apparatus for selecting. R. A. Webber. 1,786,973; Dec. 30.
Fibers, Process of and apparatus for the dry disintegration of and deposition of. F. W. Manning. 1,786,669; Dec. 30.
File, Finger-nail. C. A. Foresman. Des. 82,932; Dec. 30.
Filing appliance. W. E. Dunning. 1,787,237; Dec. 30.
Films, Device for the automatic adjustment of the tensions of. E. Oehmichen. 1,786,917; Dec. 30.
Films, Drying varnish. P. B. Cochran. 1,786,824; Dec. 30.
Filter, Air. E. L. Barnes. 1,787,135; Dec. 30.
Filter-leaf construction. W. H. Bacheldor. 1,787,100; Dec. 30.
Filtering machine, Pulp-. E. C. Loetscher. 1,787,047; Dec. 30.
Finger ring. J. Granat. Des. 82,934; Dec. 30.
Firearm. C. J. Jefferson. 1,787,004; Dec. 30.
Firearms, Apparatus for filling magazines for self-loading. V. Holek. 1,786,537; Dec. 30.
Firearms, Firing mechanism for automatic. E. Holek. 1,786,536; Dec. 30.
Firearms, Marksmanship-training device for. D. B. Howard. 1,786,614; Dec. 30.
Fireplace, Combination. I. Risdon. 1,786,453; Dec. 30.
Fitting for insulators. A. O. Austin. 1,786,730; Dec. 30.
Fixture construction. R. B. Benjamin. 1,787,032; Dec. 30.
Flood light. J. L. Brownell. 1,786,515; Dec. 30.
Floor construction. H. G. Eisler. 1,787,067; Dec. 30.
Floor construction. H. E. Marks. 1,787,049; Dec. 30.
Flooring, Herringbone. A. Wasieff. 1,787,027; Dec. 30.
Flowerpot stand. J. Halberstadter. 1,786,994; Dec. 30.
Fluid controller. C. A. Brown. 1,786,894; Dec. 30.

Fluid-pressure brake. B. A. Linderman. 1,786,438; Dec. 30.
Folder, Printed. W. H. Jones. 1,787,276; Dec. 30.
Folding machine, Paper or like sheet. E. E. Palmer. 1,786,773; Dec. 30.
Footwear, Manufacture of. E. J. Dempsey. 1,786,983–4; Dec. 30.
Form for molding concrete and cement. E. F. Harper. 1,787,107; Dec. 30.
Fountain: *See*—
Drinking fountain.
4-amino-beta-phenyl-anthraquinone by amination, Preparation of. P. H. Groggins. 1,786,530; Dec. 30.
Frame: *See*—
Vehicle frame. Warping frame.
Frame and spring suspension for motor vehicles. C. E. Frederickson. 1,786,906; Dec. 30.
Fuel-feeding apparatus, Vacuum-operated. C. S. Burton. 1,786,700; Dec. 30.
Fuel, Method and apparatus for burning pulverized. J. E. Bell. 1,786,887; Dec. 30.
Fuels, Using motor. T. Midgley, jr. 1,787,419; Dec. 30.
Furnace. R. C. Benner. 1,786,593; Dec. 30.
Furnace. W. F. Detwiler. 1,787,307; Dec. 30.
Furnace construction. H. Daum. 1,786,829; Dec. 30.
Fuse for projectiles, Combination. H. H. Zornig and A. F. Teitscheid. 1,786,640; Dec. 30.
Galvanizing machine. J. Carroll. 1,787,141; Dec. 30.
Garment-hanger attachment. G. E. Scruby. 1,786,923; Dec. 30.
Garment stretcher. L. W. Pebbles. 1,787,165; Dec. 30.
Gas heater. J. E. Leonard. Des. 82,946; Dec. 30.
Gas purification. G. E. Seil. 1,786,509; Dec. 30.
Gases or vapors, Method and apparatus for feeding. R. W. Lohman. 1,786,626; Dec. 30.
Gases, Warning means for poison. H. Lehrecke. 1,786,623; Dec. 30.
Gauge: *See*—
Hinge seat gauge. Level and pressure gauge.
Gauge for adjusting brake linings. A. H. Wadell. 1,786,638; Dec. 30.
Gauge for proving type forms, Line-up. J. P. Flynn. 1,787,037; Dec. 30.
Gear-cutting machine. F. T. Swain. 1,786,551; Dec. 30.
Gear-cutting machine. F. T. Swain and M. C. St. Clair. 1,786,552; Dec. 30.
Gear-cutting machine, Completely automatic. H. J. White. 1,786,689; Dec. 30.
Gear for big hydraulic working machines, Distributing. E. Schottler. 1,787,328; Dec. 30.
Gear, Hydraulic valve. L. A. Kauffman and W. Davis. 1,786,716; Dec. 30.
Gear mechanism, Change-. W. T. Carling. 1,786,980; Dec. 30.
Gear puller. R. B. Hainsworth. 1,787,070; Dec. 30.
Generator: *See*—
Current generator. Water and steam generator.
Generators, Exciting means for direct-current. A. Ytterberg and I. Herlitz. 1,787,028; Dec. 30.
Generators, Fuel charger for gas. F. B. Hayes. 1,787,248 Dec. 30.
Gin rib. J. J. Wallace. 1,786,972; Dec. 30.
Glass article, Laminated. M. C. Heaton. 1,787,371; Dec. 30.
Glass blanks, Method of and apparatus for assembling. E. H. Rohl. 1,786,456; Dec. 30.
Glass, Method and apparatus for the manufacture of sheet. C. P. Byrnes. 1,786,892; Dec. 30.
Glass, Process and apparatus for producing sheet. O. C. Miller. 1,787,391; Dec. 30.
Glider plane. J. C. Yecker. 1,787,297; Dec. 30.
Golf balls, Device for washing. H. D. Day. 1,787,306; Dec. 30.
Golf club. B. Washington. 1,787,415; Dec. 30.
Golf-tee retriever. W. D. Smith. 1,787,400; Dec. 30.
Governor. W. B. Flanders. 1,786,987; Dec. 30.
Grader. W. C. Ward. 1,787,295; Dec. 30.
Gravity indicating system. A. A. Van Orsdale. 1,787,132; Dec. 30.
Gravity lock. P. Swanson. 1,786,582; Dec. 30.
Grinder, Wood. W. Thaler. 1,786,679; Dec. 30.
Grinding machine. C. Booth. 1,787,337; Dec. 30.
Grinding or buffing machine. H. D. Stevens. 1,787,412; Dec. 30.
Grounding device. E. F. Bennett. 1,787,351; Dec. 30.
Guide for Venetian blinds. T. E. McNulty. 1,787,158; Dec. 30.
Gum and its manufacture, Modified. C. E. Dellenbarger. 1,786,831; Dec. 30.
Gun cleaner. L. H. Darling. 1,786,520; Dec. 30.
Gypsum wall board. G. A. New. 1,787,163; Dec. 30.
Hair drying and treating apparatus. B. F. Jancke and J. E. Kelley. 1,787,251; Dec. 30.
Hair-drying apparatus. C. Van Der Heuel. 1,786,969; Dec. 30.
Hair-waving wrapper. W. S. Watts. 1,786,881; Dec. 30.
Halogenated sulphone phthaleins. W. C. Harden. 1,786,611; Dec. 30.
Hammer crusher. G. W. Borton. 1,786,694–5; Dec. 30.
Handle. E. L. Delany. 1,787,105; Dec. 30.
Handles, Ear for burial-casket. R. P. Henderson. Des. 82,939–40; Dec. 30.
Hanger: *See*—
Cord hanger.
Harrow and scraper, Combination. H. A. Swensson. 1,786,510; Dec. 30.
Harvester, Ensilage. E. A. Johnston, G. M. Merwin, and H. A. Watchek. 1,786,850; Dec. 30.
Heat-exchanger tubes, Making. W. Lonsdale. 1,786,571; Dec. 30.
Heat interchanger. A. E. Pew, jr. 1,787,086; Dec. 30.
Heat regulator and recorder. A. F. Spitzglass. 1,787,176; Dec. 30.
Heater: *See*—
Water heater.
Heating system, Fluid-fuel. H. L. Doherty. 1,786,901; Dec. 30.
Heating system, House. H. L. Doherty. 1,786,900; Dec. 30.
Helicopter. H. T. Nelson. 1,786,576; Dec. 30.
Hinge, Casement-window. J. L. C. Heinz. 1,787,249; Dec. 30.
Hinge-seat gauge. J. R. Houts. 1,787,313; Dec. 30.
Hoisting hook. C. L. Matthews. 1,787,318; Dec. 30.
Holder and bracket therefor, Flowerpot. J. Halberstadter. 1,786,995; Dec. 30.
Holder and protector, Bill. L. Anderson. 1,787,335; Dec. 30.
Holder, Baby bottle. B. Simons. 1,786,459; Dec. 30.
Holder, Bob. H. Natkiel. 1,787,393; Dec. 30.
Holder, Cosmetic. H. W. Wild and P. A. Reutter. 1,787,183; Dec. 30.
Holder, Flagpole. J. A. Gerow and A. C. Cannon. 1,787,150; Dec. 30.
Holder for display strips. R. A. Furlong. 1,787,308; Dec. 30.
Holder for weft-replenshing looms, Thread. A. F. Morrell. 1,786,671; Dec. 30.
Holder, Indicating copy. C. Talarn. 1,786,874; Dec. 30.
Holder, Standard barber-razor. A. Soda. 1,787,093; Dec. 30.
Hollow bodies, Method and an apparatus for manufacturing. G. Walter. 1,786,586; Dec. 30.
Hood for automobiles and other vehicles. F. J. Leather. 1,786,662; Dec. 30.
Hook: *See*—
Hoisting hook. Trip hook.
Horn for shoe-sewing machines. B. T. Leveque. 1,786,624; Dec. 30.
Hose clamp, Garden. A. P. Heslop. 1,786,612; Dec. 30.
Hose coupling. A. T. Hopkins. 1,786,489; Dec. 30.
Hose reel, Stationary. R. T. Freeth. 1,787,194; Dec. 30.
House: *See*—
Farrowing house.
Hydraulic brake. S. W. Rushmore. 1,786,633; Dec. 30.
Hydrocarbons, Production of propenyl derivatives of aromatic. J. Ehrlich. 1,787,036; Dec. 30.
Hydrocarbons, Refining. E. W. Isom. 1,786,493; Dec. 30.
Hypochlorite composition. R. B. MacMullin and M. C. Taylor. 1,787,048; Dec. 30.
Hypochlorite composition, Producing new. R. B. MacMullin and M. C. Taylor. 1,787,080; Dec. 30.
Ignition and lighting switch. A. H. Weiss. 1,787,058; Dec. 30.
Illuminating device. E. M. Garey. 1,786,744; Dec. 30.
Incinerator. J. R. McLellan. 1,787,061; Dec. 30.
Index or file. A. E. Hunt. 1,786,616; Dec. 30.
Indicator: *See*—
Air-speed indicator. Fare indicator.
Indigo by arylglycine fusion, Producing. J. F. Wait. 1,786,800; Dec. 30.
Induction meter. A. Callsen. 1,786,821; Dec. 30.
Inflation device. W. E. Huffman. 1,787,153; Dec. 30.
Ink. C. E. Bivins. 1,787,233; Dec. 30.
Insect trap. S. Deibele. 1,786,704; Dec. 30.
Insoles, Device for forming recesses and enlargements on shoe. A. Sachs. Re17,914; Dec. 30.
Instrument board light. A. Moorhouse. 1,786,768; Dec. 30.
Insulating device for cooking utensils, Heat. C. Endorf. 1,786,562; Dec. 30.
Insulating layers upon wires, Producing thin. R. Rüdenberg and W. Schottky. 1,786,920; Dec. 30.
Insulating sleeves, Preparing. T. C. Reed and A. D. Odell. 1,786,549; Dec. 30.
Insulator. F. H. Miller. 1,786,767; Dec. 30.
Insulator. H. B. Smith. 1,786,784; Dec. 30.
Intaglio printing colors, Production of. H. Fleischmann and O. Jordan. 1,787,239; Dec. 30.
Intermittent-driving mechanism. D. F. Grahame. 1,787,265; Dec. 30.
Intermixed divided materials, Method and mechanism for separating. K. Davis. 1,786,740; Dec. 30.
Intermixed materials, Process and mechanism for dividing. K. Davis. 1,786,738; Dec. 30.
Internal-combustion engine. C. P. Cady. 1,786,423; Dec. 30.
Internal-combustion engine. N. A. B. Odom. 1,787,121; Dec. 30.
Internal-combustion engine, Compression-ignition. A. F. Sanders. 1,787,326; Dec. 30.
Internal-expansion brake. G. H. Stoner. 1,786,461; Dec. 30.

Iron and steel, Refining. S. Westberg. 1,786,806; Dec. 30.
Iron foils, Forming. J. R. Cain. 1,787,139; Dec. 30.
Irrigator, Manually-operated. B. Sjöström. 1,787,024; Dec. 30.
Jack: *See*—
Lifting jack. Pumping jack.
Jack. C. J. Rodman. 1,786,866; Dec. 30.
Jack for container cars, Center. W. P. Kellett. 1,786,620; Dec. 30.
Jack for container railway cars, Adjustable spring. W. P. Kellett. 1,786,495; Dec. 30.
Jar: *See*—
Display jar.
Jar. E. W. Fuerst. Des. 82,933; Dec. 30.
Joint: *See*—
Expansion joint. Rail joint.
Knife, Cigar. F. W. Salmar. 1,787,396; Dec. 30.
Knitted fabric. M. B. Goldberg. 1,787,264; Dec. 30.
Knitting machines, Yarn-sinking apparatus for. H. McAdams. 1,787,010; Dec. 30.
Knotter. B. E. Byrd. 1,787,102; Dec. 30.
Label, Booklet. D. E. Parrish. 1,786,504; Dec. 30.
Label printing, feeding, and cutting machine. A. Rosenthal. 1,786,867; Dec. 30.
Laminated bodies, Manufacturing gum-bonded. J. M. Taylor, C. N. Jacobs, and R. R. Titus. 1,787,404; Dec. 30.
Lamp-focusing mechanism. S. F. Arbuckle. 1,786,814; Dec. 30.
Lamp or analogous article, Stand. W. J. Linnemans. Des. 82,947; Dec. 30.
Lamp, Signal. C. H. Larson. 1,786,758; Dec. 30.
Last. W. A. Krentler. 1,786,540; Dec. 30.
Latch. M. Dermody. 1,786,521; Dec. 30.
Latch. G. W. Miller. 1,787,390; Dec. 30.
Lathe, Commutator turning. H. G. Miller. 1,786,442; Dec. 30.
Leak detector. H. N. Hedeby. 1,786,843; Dec. 30.
Leavening preparation. A. H. Fiske. 1,787,193; Dec. 30.
Lens extract and making it. E. H. Stuart. 1,787,179; Dec. 30.
Lens mountings, Making. H. W. Grom. 1,787,266; Dec. 30.
Level and pressure gauge, Combined liquid. H. Hastings. 1,786,566; Dec. 30.
Level-controlling device for liquid containers. E. T. Turner. 1,787,130; Dec. 30.
Lid, Axle-box. E. G. Durning. 1,786,605; Dec. 30.
Lid or closure. L. Benoit. 1,786,733; Dec. 30.
Life-saving device, Submarine. G. Meister. 1,787,627; Dec. 30.
Lifting device. I. Von Kert Hott. 1,786,754; Dec. 30.
Lifting jack. H. W. Clark. 1,786,643; Dec. 30.
Light: *See*—
Flood light. Instrument-board light.
Light and license plate, Combined tail. T. Fisher. 1,786,564; Dec. 30.
Light for show cases, Display. C. W. Cole. 1,786,601; Dec. 30.
Light-reflecting device. C. G. McLean. 1,787,388; Dec. 30.
Lighting fixture. E. A. Gillinder. 1,786,748; Dec. 30.
Lighting fixture. L. Schepmoes. 1,786,962; Dec. 30.
Lighting unit. H. Y. Mageoch. 1,787,279; Dec. 30.
Line follower. O. Erickson. 1,787,362; Dec. 30.
Lining vessel for carrying out operations with liquids and the like. F. H. Bramwell. 1,787,101; Dec. 30.
Liquefaction. W. L. De Baufre. 1,786,898; Dec. 30.
Liquid-delivering apparatus. R. Meijer. 1,787,389; Dec. 30.
Loading block. C. B. Parsons. 1,786,774; Dec. 30.
Lock: *See*—
Door lock. Valve lock.
Gravity lock.
Lock. S. P. Goldberg. 1,786,648; Dec. 30.
Lock. J. K. Warren. 1,786,511; Dec. 30.
Lock for automobiles, Antitheft. E. M. Heidorn. 1,787,110; Dec. 30.
Lock washer, Spring nut-. H. G. Norwood. 1,786,502–3; Dec. 30.
Locking device for automotive equipment. S. Wise. 1,787,134; Dec. 30.
Locking device, Nut-. W. A. Lelean and D. C. Brown. 1,787,114; Dec. 30.
Log, Stay. J. S. Stone. 1,786,460; Dec. 30.
Loom dobby. A. A. Gordon. 1,786,712; Dec. 30.
Loom picker. V. Weiss. 1,787,182; Dec. 30.
Loom, Weft-replenishing. V. H. Jennings. 1,786,659; Dec. 30.
Looms, Harness-sheave stand for. A. E. Brickman. 1,786,696; Dec. 30.
Looms, Harness-sheave stand for. A. D. Gargolinski. 1,786,710; Dec. 30.
Looms, Lay and shuttle box for. J. F. Colgan. 1,786,703; Dec. 30.
Looms, Let-off for narrow-ware. E. R. Holmes. 1,786,657; Dec. 30.
Looms, Multicolor magazine for. W. M. Wattie. 1,786,688; Dec. 30.
Looms on cables, Device for holding. H. E. Walker. 1,786,585; Dec. 30.
Looms, Picker-stick retriever for. A. D. Gargolinski. 1,786,709; Dec. 30.
Looms, Resetting mechanism for weft-replenishing. P. D. Doherty. 1,786,706; Dec. 30.
Looms, Shuttle-box construction for. J. F. Colgan. 1,786,702; Dec. 30.
Looms, Temple for double-fabric. R. G. Turner. 1,786,684; Dec. 30.
Looms, Warp stop motion for terry towel. J. Regan. 1,786,675; Dec. 30.
Loud-speaker motor. R. Conover. 1,786,479; Dec. 30.
Lubricant-receiving fittings, Making. G. L. Moore. 1,787,257; Dec. 30.
Lubricating device. G. Kirk and A. C. Danver. 1,786,432; Dec. 30.
Lubricating system, Pressure. E. F. Pierce and D. H. Sweet. 1,786,548; Dec. 30.
Lubricator filler. B. Montoya. 1,787,011; Dec. 30.
Luggage lock. O. A. Boesel. Des. 82,926; Dec. 30.
Machine for closing and sealing cans. J. M. McClatchie. 1,787,050; Dec. 30.
Machine for cutting articles from sheet material. F. J. MacDonald. 1,786,542; Dec. 30.
Machine for cutting bias fabrics. J. P. Morris. 1,787,208; Dec. 30.
Machine for internally coating culvert pipes. A. W. Spaulding. 1,786,785; Dec. 30.
Machine for producing gears. E. W. Bullock, A. P. Schansell, A. W. Draeseke, C. T. Galloway, and M. H. Hill. 1,786,697; Dec. 30.
Machine for stitching patterns on fabric bases. A. Curioni. 1,786,481; Dec. 30.
Machine for the production of mesh fabric and chains. K. Kindl. 1,786,953; Dec. 30.
Machine for transferring designs onto cylindrical surfaces. L. Linzell and T. E. Phythian. 1,786,570; Dec. 30.
Magnetic pick-up. O. M. Dunning. 1,786,985; Dec. 30.
Magneto-electric machine for the generation of monophase current. E. Morel. 1,787,014; Dec. 30.
Mangle, Washing. C. Rieger. 1,787,286; Dec. 30.
Manifold for straight-eight internal-combustion engines, inlet. J. A. H. Barkeij. 1,787,186; Dec. 30.
Marine propulsion. J. W. Harvey. 1,786,997; Dec. 30.
Match machine. S. M. Friede and F. J. McGuire. 1,786,486; Dec. 30.
Material, Forming. C. D. Knowlton 1,786,496; Dec. 30.
Material-handling apparatus. J. R. Allan. 1,786,884; Dec. 30.
Material-handling plant. C. F. Bledsoe. 1,786,734; Dec. 30.
Material in finely-divided or powderous form, Apparatus for disseminating. J. C. Savage. 1,787,397; Dec. 30.
Materials, Apparatus for cutting. E. P. Burrell. 1,786,698–9; Dec. 30.
Materials, Mechanism and process for separating intermixed divided. K. Davis. 1,787,340; Dec. 30.
Materials, Method and mechanism for separating divided. K. Davis. 1,786,739; Dec. 30.
Measuring and cutting device. F. G. Gronemeyer. 1,786,992; Dec. 30.
Meat slicer. E. G. Streckfuss. 1,787,288; Dec. 30.
Mechanical movement and toy. E. H. Schmidt. 1,787,174; Dec. 30.
Metal articles, Apparatus for enameling. A. G. Sherman and A. Meadows. 1,787,175; Dec. 30.
Metal by rolling mills, Reduction of. A. Paterson. 1,786,775; Dec. 30.
Metal, Rolling. D. Eppelsheimer. 1,786,834; Dec. 30.
Metal work, Apparatus for and art of treatment of. H. Rosenberg. 1,786,508; Dec. 30.
Metallic structure. M. L. Carr. 1,786,822; Dec. 30.
Metals and metallic alloys, Separation and purification of. A. Hanak. 1,786,908; Dec. 30.
Metals from ores, Reduction of. J. W. Hornsey. 1,786,999; Dec. 30.
Meter: *See*—
Induction meter.
Milk and cream preparations, Production of solid. P. Born. 1,786,559; Dec. 30.
Milk powder, Treatment of. I. S. Merrell and H. Schibsted. 1,786,858; Dec. 30.
Milking apparatus, Cow-. C. H. Hapgood. 1,787,152; Dec. 30.
Milking machine. F. G. Hodsdon. 1,786,846; Dec. 30.
Mill: *See*—
Rolling mill.
Mill for grinding paints, inks, enamels and other viscous materials. E. G. Todd. 1,787,180; Dec. 30.
Mirror, Illuminated. N. B. Braly. 1,786,420; Dec. 30
Mold for manufacturing boots, shoes, and similar articles of rubber of other plastic material H., A., and G. Steppé. 1,787,177; Dec. 30.
Molding apparatus and process, Centrifugal. C. S. Sorensen. 1,787,094; Dec. 30.
Molding machine. M. W. Farnham. 1,786,837; Dec. 30.
Molding machine. T. O. Morris and J. J. Lawlor. 1,786,672; Dec. 30.
Molding machine, Automatic night-candle-. A. Sgritta. 1,786,634; Dec. 30.
Mortars and concretes, Manufacturing artificial aggregate for. J. E. Greenawalt. 1,786,173; Dec. 30.
Motor: *See*—
Loud-speaker motor.
Motor-control means. J. D. Nies. 1,786,772; Dec. 30.

Motor-control system. H. L. Van Valkenburg. 1,786,554; Dec. 30.
Motor-control system, Electric. W. O. Lum. 1,787,278; Dec. 30.
Motor-operated brake. G. W. Lautrup. 1,787,044; Dec. 30.
Motors, Regulating the speed of induction. J. Wilson. 1,787,133; Dec. 30.
Mount for machine guns, Combination. F. K. Howard. 1,786,615; Dec. 30.
Mounting, Disk-wheel. J. H. Hunt. 1,787,074; Dec. 30.
Mounting for electric conductors. W. R. Edson. 1,786,937; Dec. 30.
Mounting for glass windows or the like. A. H. Marty. 1,787,386; Dec. 30.
Mower attachment. R. W. George. 1,786,487; Dec. 30.
Musical wind instrument. H. Dytch. 1,786,833; Dec. 30.
Neck and closure structure. J. S. Reid. 1,786,722; Dec. 30.
Necktie. H. Wolf. 1,787,226; Dec. 30.
Neutralizing apparatus. W. H. Chapman. 1,787,188; Dec. 30.
Nitrocellulose, Acetylation of. H. A. Gardner and C. A. Knauss. 1,786,989; Dec. 30.
Nonskid device. G. A. Hathorne. 1,786,653; Dec. 30.
Nut, Cap. J. W. Hughes. 1,787,154; Dec. 30.
Nut-feeding mechanism. J. E. Williams. 1,786,469; Dec. 30.
Oar blade or the like. J. L. Ribard. 1,786,451; Dec. 30.
Objective corrected spherically, chromatically, astigmatically, and for coma. W. Merté. 1,786,916; Dec. 30.
Oil-burning apparatus. H. B. Donley, A. J. Frame, and J. G. Gilmore. 1,786,832; Dec. 30.
Oil-refinery fitting. C. B. Harbison. 1,787,040; Dec. 30.
Oil-treating apparatus. C. R. Short and C. L. Lee. 1,787,409; Dec. 30.
Oil, Treating hydrocarbon. J. M. Goodwin. 1,786,650; Dec. 30.
Oil-well-testing device. E. H. Cox. 1,786,897; Dec. 30.
Oils, Cracking. R. C. Holmes and F. T. Manley. 1,786,947; Dec. 30.
Oils, Regeneration of lubricating. H. Bensmann. 1,787,353; Dec. 30.
Oils, Vacuum distillation of hydrocarbon. H. C. Wiess. 1,786,639; Dec. 30.
One-piece box. C. S. Andrews. 1,787,030; Dec. 30.
Ophthalmic mounting. E. L. Schumacher. 1,786,580; Dec. 30.
Ores, Reducing. H. Wittek. 1,787,348; Dec. 30.
Organic compounds, Catalytic oxidation of. A. Wohl. 1,787,416–17; Dec. 30.
Ornamental effects in architectural structures, Producing illusory. R. M. Sutphen. 1,786,789; Dec. 30.
Packing for rods and shafts. H. F. Sautter. 1,787,020; Dec. 30.
Pad: *See*—
Sponge pad.
Paint or fard distributor with stump, Face. P. Baquey. 1,786,418; Dec. 30.
Paper can, Tapered or nesting. W. L. Wright. 1,787,332; Dec. 30.
Paper cutter. M. I. Higbie. 1,787,375; Dec. 30.
Paper, Making decorated. J. H. Trask. 1,787,218; Dec. 30.
Paper-making machine, Doctor for. J. Wenzel. 1,786,587; Dec. 30.
Paper-making process, Chemical-pulp. F. A. Johnson. 1,786,538; Dec. 30.
Paper, Method of and apparatus for manufacturing. J. Traquair. 1,786,681; Dec. 30.
Paper-sorting device. C. März. 1,787,387; Dec. 30.
Papers, particularly those used for the packing of edible articles, Manufacture of transparent. O. Klotz. 1,786,911; Dec. 30.
Parachute. C. Fisher. 1,786,838; Dec. 30.
Para-nitraniline, Manufacture of. H. Merrill. 1,786,766; Dec. 30.
Partition, Folding. E. J. G. Phillips. 1,786,505; Dec. 30.
Pasteurizing apparatus. A. H. Bolleau. 1,786,819; Dec. 30.
Patterns, Simulating natural. L. V. Casto. Re17,912; Dec. 30.
Peach pitter. G. Wilcox. 1,786,724; Dec. 30.
Pen, Fountain. D. D. Mungen and R. Back. 1,787,406; Dec. 30.
Pencil, Multicolor. P. Kohler. 1,786,434; Dec. 30.
Percolator attachment. B. Russell. 1,787,394; Dec. 30.
Perfumery. E. E. Reid. 1,786,630; Dec. 30.
Pharmaceutical product and making same. E. Starkenstein. 1,786,873; Dec. 30.
Phonograph bezel. H. R. Naylor. 1,786,445; Dec. 30.
Phonograph reproducer, Aeroplane. J. M. Coburn. 1,786,982; Dec. 30.
Phonographic records, Electromagnetic pick-up device for. L. Thompson. 1,787,290; Dec. 30.
Phosphate for fertilizing, Manufacturing a. E. Hammel. 1,786,651; Dec. 30.
Phosphoric acid and the like, Purifying. A. H. Fiske. 1,787,192; Dec. 30.
Photographic apparatus. E. O. Goldbeck. 1,787,309; Dec. 30.
Photographic device. A. S. Howell. 1,787,198; Dec. 30.
Photography, Combined black and white and colored image. W. V. D. Kelley. 1,787,201; Dec. 30.
Pick for stringed musical instruments. G. D. Beauchamp. 1,787,136; Dec. 30.
Picker: *See*—
Cotton picker. Loom picker.
Picture apparatus, Motion-. N. D. Anostchenko. 1,786,977; Dec. 30.
Picture projector and photographic sound-reproducing machine, Combined motion-. C. W. Ebeling. 1,786,903; Dec. 30.
Pictures, Electrical transmission of. C. A. Hoxie. 1,787,273; Dec. 30.
Pile, Composite. M. M. Upson. 1,786,968; Dec. 30.
Pile fabric. W. F. Miller. 1,787,051; Dec. 30.
Pin: *See*—
Coupling pin.
Pin fastener, Double-point-. G. A. King. 1,787,253; Dec. 30.
Pipe coupling. F. E. Comer. 1,786,825; Dec. 30.
Pipes or conduits, Device for coating the interior of walls of. J. Steinnes. 1,787,126; Dec. 30.
Pipes, Protective means for. H. B. Walter. 1,786,467; Dec. 30.
Piston. W. Noble. 1,787,119; Dec. 30.
Piston drive. W. Samuels. 1,787,173; Dec. 30.
Plastic composition. G. B. Stryker. 1,786,462; Dec. 30.
Plow. T. Brown. 1,787,137; Dec. 30.
Plow. C. G. Strandlund. 1,787,127; Dec. 30.
Plow point. L. C. Fountain. 1,787,366; Dec. 30.
Plugging device. J. H. Pengilly and V. Brown. 1,787,260; Dec. 30.
Pocket, Safety. L. Vineberg. 1,786,879; Dec. 30.
Pocketbook. C. G. Conger. 1,786,896; Dec. 30.
Polishing device, Roll-. J. R. Byrum. 1,786,820; Dec. 30.
Pool, Swimming. J. P. Hooper. 1,786,613; Dec. 30.
Pools, Apparatus for cleaning swimming. J. J. Johnston. 1,787,274; Dec. 30.
Pothead for conductors. A. O. Austin. 1,786,728; Dec. 30.
Pothead for insulated conductors. A. O. Austin. 1,786,729; Dec. 30.
Power-equalizing device for vehicle brakes. J. W. Smith. 1,787,092; Dec. 30.
Power standard device. H. Nyquist. 1,786,546; Dec. 30.
Power transmitter. G. A. Klimek. 1,786,433; Dec. 30.
Power wheel, Fluid. W. R. Caldwell. 1,787,103; Dec. 30.
Press: *See*—
Tube-splicing press.
Press. A. E. Snow. 1,787,125; Dec. 30.
Press cylinder, Printing-. M. W. Brueshaber. 1,787,187; Dec. 30.
Press for tennis and like rackets. R. Purcell. 1,786,577; Dec. 30.
Press for tread splices. C. E. Maynard. 1,786,499; Dec. 30.
Prop, Clothes. H. B. Griner. 1,786,533; Dec. 30.
Propeller, Screw. D. R. Davis. 1,786,644; Dec. 30.
Protective arrangement. L. F. Kennedy. 1,787,277; Dec. 30.
Protective arrangement. O. C. Traver. 1,787,181; Dec. 30.
Protector, Pipe-thread. P. E. Hunter. 1,786,491; Dec. 30.
Pruning device, Electric. L. O. B. Lindstrom. 1,786,625; Dec. 30.
Puller: *See*—
Gear puller. Wheel puller.
Pulley shield, Window-. R. L. Howard. 1,786,428; Dec. 30.
Pulverized-material segregator. H. G. Lykken. 1,787,079; Dec. 30.
Pump, Centrifugal. S. Komfala. 1,786,435; Dec. 30.
Pump, Fuel. K. J. Watters. 1,787,346; Dec. 30.
Pump, Turbo. V. Schleyer. 1,787,088; Dec. 30.
Pumping jack. H. W. Parkin. 1,787,164; Dec. 30.
Putlog. T. H. Kingston. 1,787,006; Dec. 30.
Radiant-energy-generating unit. R. H. Maxson. 1,786,439; Dec. 30.
Radiator. J. Karmazin. 1,786,952; Dec. 30.
Radiator. P. W. Murray. 1,878,118; Dec. 30.
Radiator shield. B. Altheimer. 1,787,184; Dec. 30.
Radio circuit-testing unit. T. A. D. Wilson and E. Reynolds. 1,786,555; Dec. 30.
Radio dial control. H. A. Ziola. 1,787,298; Dec. 30.
Radio frequency amplifying system. L. L. Jones. Re17,915; Dec. 30.
Radio frequency modulator tube, Intermediate frequency modulation inside a. O. Schriever. 1,786,579; Dec. 30.
Radio loud-speaker. B. G. Groom. 1,787,268; Dec. 30.
Rail joint. R. T. Schole. 1,787,089; Dec. 30.
Railway switch. F. H. Bagley. 1,787,336; Dec. 30.
Raising mechanism. H. F. Flowers. 1,787,342; Dec. 30.
Rake: *See*—
Self-cleaning rake.
Razor, Safety. H. J. Gaisman. 1,787,240–1; Dec. 30.
Razor strop. F. K. Hebnly. 1,787,372; Dec. 30.
Reagent feeder. G. G. Thomas. 1,787,289; Dec. 30.
Reamer. O. Duda. 1,786,484; Dec. 30.
Receptacle, Metallic. H. H. Ward. 1,787,221; Dec. 30.
Recorder: *See*—
Time recorder.
Reel: *See*—
Hose reel.
Reflector, Traffic-signal. V. L. Oestnaes. 1,786,958; Dec. 30.
Refractory composition, Recrystallized. T. S. Curtis. 1,786,482; Dec. 30.

Refrigerating and water-heating units, Combination. E. B. Miller and W. H. Gabeler. 1,786,861; Dec. 30.
Refrigerating apparatus. P. Farmer. 1,786,836; Dec. 30.
Refrigerating composition. O. Hannach. 1,786,842; Dec. 30.
Refrigerator. G. S. Bataille. 1,786,817; Dec. 30.
Refrigerator control. G. Muffly. 1,787,209; Dec. 30.
Refrigerators, Sanitation of. G. C. Bacon. 1,787,231; Dec. 30.
Register: *See*—
Cash register.
Regulator: *See*—
Draft regulator. Temperature regulator.
Relay system, Paralleling. P. E. Thomas. 1,786,792; Dec. 30.
Reproductions of images projected from a microscope, Apparatus for use in making graphic. J. F. Marshall. 1,786,543; Dec. 30.
Reralling device. A. T. Sexe. 1,787,329; Dec. 30.
Resilient wheel. S. C. Hatfield. 1,787,071; Dec. 30.
Rifle, Repeating. A. Bochnak. 1,787,354; Dec. 30.
Ring. A. O. Burgess. Des. 82,927–8; Dec. 30.
Ring. A. A. Constabel. Des. 82,930; Dec. 30.
Ring or article of similar nature, Finger. E. J. Gross. Des. 82,935; Dec. 30.
Riveted structure. J. E. Kalgren. 1,787,076; Dec. 30.
Riveting machine. H. Elsner. 1,787,190; Dec. 30.
Road scraper. E. A. Weeks. 1,786,803; Dec. 30.
Rod: *See*—
Connecting rod.
Roller screen. J. H. Story. 1,786,550; Dec. 30.
Rolling mill. J. B. Tytus. 1,786,793; Dec. 30.
Roof body for automobiles, Collapsible. C. E. E. Wolfermann. 1,786,927; Dec. 30.
Roof construction. A. A. Heeren. 1,786,751; Dec. 30.
Roost, Poultry. C. H. Moomaw. 1,786,443; Dec. 30.
Rope and making the same, Tapered wire. W. E. Craig. 1,786,936; Dec. 30.
Rosin and product therefrom, Treating. R. C. Palmer. 1,787,281; Dec. 30.
Rotary drier. W. A. Harty. 1,787,197; Dec. 30.
Rubber containers in boxes, Mounting. P. E. Fenton. 1,787,364; Dec. 30.
Rubber, Retarding the deterioration of. W. S. Calcott, and W. A. Douglass. 1,787,064–5; Dec. 30.
Rubber to leather, Vulcanizing. L. B. Connant. 1,787,145; Dec. 30.
Ruffler, Sewing-machine. A. J. Carmichael. 1,786,517; Dec. 30.
Safes, Gas-discharging device for. H. M. Anderson. 1,786,976; Dec. 30.
Safety device for aircraft. W. C. Ward. 1,787,294; Dec. 30.
Safety device for cam-controlled mechanisms. K. Tessky. 1,786,875; Dec. 30.
Safety device for vehicles, particularly power-driven vehicles. A. Addicks. 1,786,690; Dec. 30.
Salt drier. M. J. Lurie, and A. P. Woroshilow. 1,787,009; Dec. 30.
Sash balance. K. Katow. 1,787,111; Dec. 30.
Saw, Chain. K. Berg. 1,786,641; Dec. 30.
Saw machine, Circular-. H. Gopold. 1,787,195; Dec. 30.
Saw, Pruning. O. L. Ward. 1,787,057; Dec. 30.
Saw, Inserted tooth for. E. C. Orr. 1,786,959; Dec. 30.
Saws, Treating mill band. O. Muehlen. 1,786,444; Dec. 30.
Scale. W. F. Stimpson and R. L. Schuhmann. 1,786,788; Dec. 30.
Scale, Scoop. J. M. Bensinger. 1,787,352; Dec. 30.
Scow. W. A. Bickell. 1,786,514; Dec. 30.
Scraper, Duplex power. H. M. Pursel. 1,786,448; Dec. 30.
Screen: *See*—
Roller screen.
Screw driver and making same. P. L. Robertson. 1,787,087; Dec. 30.
Seaming machine, Double-. H. L. Guenther. 1,787,369; Dec. 30.
Securing means for lapped elements. E. C. Harter. 1,787,108; Dec. 30.
Self-cleaning rake. W. L. Myers. 1,786,770; Dec. 30.
Separating machine for milk. F. Henrard. 1,787,311; Dec. 30.
Separator: *See*—
Centrifugal bowl separator. Coal separator.
Separator. C. L. Sutton. 1,786,790; Dec. 30.
Series and groups of I-beams. J. H. Edwards, F. T. Llewellyn, and R. A. Marble. 1,786,938; Dec. 30.
Setworks. G. M. Pelton. 1,786,776; Dec. 30.
Sewing machine, Lock-stitch. M. Hemleb. 1,786,944; Dec. 30.
Sewing-machine shuttle bobbin. H. G. Johnson. 1,786,618; Dec. 30.
Sewing machines, Feed mechanism for. B. T. Leveque. 1,787,157; Dec. 30.
Sewing machines, Thread-measuring mechanism for shoe-. O. L. Lawson. 1,786,621; Dec. 30.
Shade and curtain fixture. A. B. Wendel. 1,787,097; Dec. 30.
Shade, Lamp. F. C. Shoenhut. Des. 82,958; Dec. 30.
Shade, Ornamental lamp. P. Capocci. 1,787,357; Dec. 30.
Shade-roller stop, Automatic. B. W. Whitworth. 1,786,512; Dec. 30.
Shadow lines on work pieces, Device for producing. H. Wiegelmann. 1,786,925; Dec. 30.
Shake mechanism. F. A. Bowman. 1,786,933; Dec. 30.
Sharpener, Knife. E. W. Carpenter. Des. 82,929; Dec. 30.
Sharpener, Skate. H. Thorngren. 1,786,553; Dec. 30.
Sheets, Apparatus for separating. P. Kruse. 1,787,077; Dec. 30.
Shelf, Oven. F. E. Seeley. 1,787,022; Dec. 30.
Shield for automobile radiators. C. R. Davis. 1,787,035; Dec. 30.
Shirt. G. A. Ripley. 1,786,919; Dec. 30.
Shock absorber. B. L. Mallory. 1,786,956; Dec. 30.
Shoe-sole skiver. S. A. Lewis. 1,787,384; Dec. 30.
Shoe stretcher. J. Smart. 1,786,965; Dec. 30.
Shoe, Woman's. S. Troy. Des. 82,962; Dec. 30.
Shoes, Repairing apparel. C. H. Geppert. 1,786,907; Dec. 30.
Shovel for potato diggers. P. S. Thomsen. 1,786,464; Dec. 30.
Shower head. J. Fraser. 1,786,988; Dec. 30.
Sign. M. V. Brown. 1,787,355; Dec. 30.
Sign bracket, Highway-. L. W. Zahonyi. 1,786,883; Dec. 30.
Signal: *See*—
Vehicle signal.
Signal light, Direction. R. E. McGee. Des. 82,950; Dec. 30.
Signal light for street cars, Safety. A. G. Hale. 1,786,534; Dec. 30.
Signature conveyor, Portable. J. C. Lacy. 1,787,383; Dec. 30.
Skiving machine. S. J. Pentler and O. R. Short. 1,787,052; Dec. 30.
Slack adjuster. W. H. Sauvage. 1,787,123; Dec. 30.
Smoker's article. J. P. Doughty, jr. 1,786,902; Dec. 30.
Smoker's stand. G. P. Schwarz. Des. 82,959; Dec. 30.
Snowplow. G. C. Abbe. 1,786,974; Dec. 30.
Snubber. P. N. Peters. 1,787,282; Dec. 30.
Soaping flowing water, Device for. E. Collenburg. 1,786,561; Dec. 30.
Sodium stannate, Producing. W. T. Little. 1,787,078; Dec. 30.
Sound-producing instrument. P. L. Haims. 1,787,196; Dec. 30.
Sound-propagating diaphragm. M. R. Hutchison. 1,786,949; Dec. 30.
Sound-propagating diaphragm. M. R. Hutchison. 1,787,003; Dec. 30.
Sound-source-locating means. L. F. Merrill. 1,786,859; Dec. 30.
Sounding board, Reenforced. M. R. Hutchison. 1,787,002; Dec. 30.
Specific-gravity balance. D. O. Lima. 1,787,256; Dec. 30.
Speed transmission, Variable-. H. B. Greening and J. W. Galloway. 1,787,246; Dec. 30.
Spoke-end-cap construction. J. H. Hunt. 1,787,075; Dec. 30.
Sponge pad. R. C. Zuckerman. 1,786,513; Dec. 30.
Sprayer. H. E. Brandt. 1,786,889; Dec. 30.
Sprayer. A. W. Kegler. 1,786,431; Dec. 30.
Spring-winding-control device. W. Thomas. 1,787,343; Dec. 30.
Sprinkler system. P. B. Schoenberger. 1,786,963; Dec. 30.
Stacker. R. Hitchcock. 1,786,752; Dec. 30.
Stalk cutter. J. Robbins. 1,786,455; Dec. 30.
Stand: *See*—
Flowerpot stand.
Stand for motion-picture-projector apparatus. A. C. Hayden. 1,787,270; Dec. 30.
Stapling machine. A. H. Schmidtke. 1,786,870; Dec. 30.
Stapling machines, Clinching means for. F. Polzer. 1,787,285; Dec. 30.
Starter, Engine. P. E. Mack. 1,786,763; Dec. 30.
Station construction. A. M. Rossman. 1,787,053; Dec. 30.
Statuette or similar article. A. Culin. Des. 82,931; Dec. 30.
Steam boiler. F. W. Chipman. 1,786,981; Dec. 30.
Steam trap. E. T. Hewitt. 1,787,374; Dec. 30.
Steel alloy insensible to hot gases and vapors. B. Strauss. 1,787,403; Dec. 30.
Steering device, Electric. J. A. Mellon. 1,787,320; Dec. 30.
Steering gear for vehicles. M. Vedovelli. 1,787,345; Dec. 30.
Steering mechanism, Power. W. L. McDonald. 1,787,319; Dec. 30.
Steering stabilizer. N. E. Joaquin. 1,787,042; Dec. 30.
Stocking, Striped. E. T. Floyd. 1,787,365; Dec. 30.
Stocking, Varicose. A. Mouthe. 1,786,862; Dec. 30.
Stool, Insulating nontilting. E. F. Shipman. 1,786,458; Dec. 30.
Stop apparatus for engines, Safety. H. C. Wasson. 1,787,223; Dec. 30.
Storage battery. C. J. Dunzweiler. 1,786,742; Dec. 30.
Stove, Heating. G. E. Pickup. Des. 82,955; Dec. 30.
Stove, Liquid-fuel. W. L. Cooper, and L. D. Fortier. 1,787,189; Dec. 30.
Strainer, Sanitary milk. M. M. McGonigal. 1,786,500; Dec. 30.
Strap clamp, Door-. A. F. Paul. 1,787,017; Dec. 30.
Stucco mix and making the same. G. A. New. 1,787,162; Dec. 30.

Stuffing box. O. A. Labus. 1,787,317; Dec. 30.
Suction cleaner. H. B. White. 1,787,224; Dec. 30.
Suit, Bathing. G. E. Rutledge. 1,786,869; Dec. 30.
Suitcase and card table, Combination. F. Gunchick. 1,786,607; Dec. 30.
Suit, Union. N. Wolff. 1,787,098; Dec. 30.
Superheater. C. A. and E. L. Schellens. 1,787,021; Dec. 30.
Superheater tube. W. B. Whitsitt and W. R. Hedeman. 1,786,882; Dec. 30.
Supervisory and control system. J. O. Shepherd. 1,786,780; Dec. 30.
Supervisory control system. R. J. Wensley. 1,786,805; Dec. 30.
Supervisory control system. T. U. White. 1,786,807; Dec. 30.
Support, Current-collector. F. R. Dippman and E. D. Moore. 1,786,719; Dec. 30.
Support, Current-collector. E. D. Moore and F. R. Dippman. 1,786,718; Dec. 30.
Support, Current-collector. E. D. Moore and F. R. Dippman. 1,786,720; Dec. 30.
Support, Drapery. F. V. Maroney. 1,786,498; Dec. 30.
Support for bobbin tips, Yieldable. C. P. Bergstrom. 1,786,692; Dec. 30.
Support for flexible electrical conductors, Extension. H. D. Jones. 1,787,252; Dec. 30.
Support for sewing machines, Throat-plate. F. F. Zeier. 1,786,929; Dec. 30.
Support for weft-replenishing looms, Bobbin. E. R. Holmes. 1,786,655; Dec. 30.
Support for weft-replenishing looms, Bobbin. J. F. Tinsley. 1,786,680; Dec. 30.
Support for weft-replenishing looms, Bobbin. K. J. Unwin. 1,786,685; Dec. 30.
Support, Form. F. G. Dickman. 1,786,522; Dec. 30.
Supporter, Maternity. S. F. Morgan. 1,786,544; Dec. 30.
Supporter, Toe. H. W. Sidgreaves. 1,787,398; Dec. 30.
Supporting pole for electrical conductors. R. C. Roe. 1,786,631; Dec. 30.
Supporting structure, Locomotive frame and engine. R. B. Krueger. 1,786,854; Dec. 30.
Suspender vest. S. Spielberger. 1,787,216; Dec. 30.
Switch: *See*—
Electric switch. Railway switch.
Ignition and lighting switch.
Switch. L. T. Roberton. 1,787,262; Dec. 30.
Switch and cover plate therefor, Push-button electric. G. W. O'Keefe. 1,787,210; Dec. 30.
Switch apparatus for gas burners, Time. G. B. Collier. 1,787,422; Dec. 30.
Switch for motor-operated vehicles, Safety. P. Irizarry. 1,787,381; Dec. 30.
Switch for music-reproducing machines, Change-key. B. E. Mills. 1,786,441; Dec. 30.
Switch mechanism. H. K. Krantz. 1,786,757; Dec. 30.
Switch mechanism. R. T. Pierce. 1,786,778; Dec. 30.
Switches, Actuating and controlling mechanism for electric. W. R. Huttinger. 1,787,314; Dec. 30.
Table: *See*—
Conveyor table.
Table for clothes wringers, Feeding. W. C. F. Dietz. 1,786,705; Dec. 30.
Table construction. G. W. Krick and D. G. Anderson. 1,786,497; Dec. 30.
Talking machines, Remote control for. W. R. Moore, jr. 1,787,392; Dec. 30.
Tanks, Theft-preventing attachment for. T. W. Hughes. 1,787,250; Dec. 30.
Tanning solutions, Treating. A. G. Wackenreuter. 1,786,880; Dec. 30.
Tape-applying apparatus. L. K. Butler. 1,787,138; Dec. 30.
Tape measure. G. R. Hipple. 1,786,845; Dec. 30.
Teat cup. J. J. Stampen. 1,786,786; Dec. 30.
Telegraph and recorder system, Ship's. L. F. Carter and F. S. Hodgman. 1,787,066; Dec. 30.
Telephone attachment. J. R. Ellis. 1,786,986; Dec. 30.
Temperature-control device. M. Goudard. 1,787,310; Dec. 30.
Temperature indicator for transformers and the like. H. Schlaich. 1,787,327; Dec. 30.
Temperature regulator. G. Craig. 1,787,146; Dec. 30.
Tent. S. E. Wrigley. 1,786,928; Dec. 30.
Terminal block for current transformers. J. B. Gibbs. 1,786,746; Dec. 30.
Terminal structure. R. E. Marbury. 1,786,765; Dec. 30.
Terra-cotta article. A. F. Hottinger. 1,786,753; Dec. 30.
Testing instrument for electrical condensers. C. C. Jones. 1,786,910; Dec. 30.
Testing outfit. C. J. Villella. 1,786,971; Dec. 30.
Textile fabric. B. S. Nash. Des. 82,952; Dec. 30.
Textile panel for a mattress covering. H. Haug. Des. 82,936; Dec. 30.
Textiles of cellulose fiber, Treating. A. W. Buhlmann. 1,786,421; Dec. 30.
Thermostat. J. J. Kenney. 1,786,852; Dec. 30.
Thermostat-controlled fan. W. J. Hughes. 1,787,041; Dec. 30.
Thin-place preventer, Automatic. W. F. Clayton. 1,787,359; Dec. 30.
Thread guide for shuttles. W. P. Craig. 1,786,602; Dec. 30.
Threading device, Tuft-frame. C. Alvord. 1,786,818; Dec. 30.
Thymol, Production of. W. Schoeller and H. Jordan. 1,786,922; Dec. 30.
Time fuse with clockwork, Mechanical. P. Liebergeld. 1,786,664; Dec. 30.
Time recorder. J. W. Bryce. 1,786,979; Dec. 30.
Timing mechanism, Automatic. C. E. Steere. 1,787,217; Dec. 30.
Tire beads, Apparatus for reenforcing. H. D. Stevens. 1,787,411; Dec. 30.
Tire-building machine. W. C. Stevens. 1,787,413; Dec. 30.
Tire-building machines, Strip-applying device for. W. C. Stevens. 1,787,414; Dec. 30.
Tire-flap-making apparatus. E. D. Putt. 1,787,168; Dec. 30.
Tire for lugged traction wheels, Over. O. R. Schoenrock. 1,786,871; Dec. 30.
Toaster. E. A. Rutenber. Des. 82,965; Dec. 30.
Toll-service trunking system. T. F. Crocker. 1,786,480; Dec. 30.
Tongs, Nail. D. R. Wilson. 1,787,331; Dec. 30.
Tool. W. F. Clay. 1,787,358; Dec. 30.
Tool handles, Wedge for. J. J. Sprunger. 1,786,636; Dec. 30.
Tool retainer for pneumatic tools. W. F. Zimmermann. 1,787,229; Dec. 30.
Tool-retaining coupling. E. W. Stevens. 1,787,178; Dec. 30.
Tool, Valve-lifting. A. Kaufman. 1,786,715; Dec. 30.
Tools, Feeding device for machine. K. Tessky. 1,786,876; Dec. 30.
Torque brake. A. W. Harrison. 1,786,996; Dec. 30.
Toy, Motion. C. R. Crew. 1,786,737; Dec. 30.
Toy, Spark. C. Arnold. 1,787,349; Dec. 30.
Toy vehicle frame. O. R. Burns. 1,787,034; Dec. 30.
Track shoe. W. Turnbull. 1,786,924; Dec. 30.
Trackway apparatus for automatic train-control systems. G. W. Baughman. 1,786,818; Dec. 30.
Traction wheel. E. London. 1,786,855; Dec. 30.
Tractors, Lister attachment for. W. M. Anderson. 1,786,591; Dec. 30.
Traffic stop. E. L. Stanton. 1,786,678; Dec. 30.
Trailer construction. D. R. Thomas. 1,786,463; Dec. 30.
Train control, Automatic. P. J. Simmen. 1,786,783; Dec. 30.
Train-control system. L. M. Aspinwall. 1,786,815; Dec. 30.
Train control, Wireless. J. H. Hammond, jr. 1,786,610; Dec. 30.
Train-indicating apparatus, Railway-. J. J. Vanhorn. 1,786,795; Dec. 30.
Transformer. J. C. Daley and E. G. Goddard. 1,786,422; Dec. 30.
Transformer, Current. H. Klemm. 1,786,853; Dec. 30.
Transmission band. G. R. Hoffman. 1,787,376; Dec. 30.
Transmission-line device. N. A. Wahlberg. 1,786,801; Dec. 30.
Transmission system, Facsimile. V. K. Zworykin. 1,786,812; Dec. 30.
Transmission, Variable-speed. H. B. Greening and J. W. Galloway. 1,787,267; Dec. 30.
Trap: *See*—
Beetle trap. Steam trap.
Insect trap.
Tray, Filing. S. Smiley, jr. 1,787,410; Dec. 30.
Tray for use on store counters, Display. E. O. Henderson. 1,787,373; Dec. 30.
Tray, Vehicle service. A. C. Wood. 1,786,471; Dec. 30.
Trimmer. O. O. Johnson. 1,786,849; Dec. 30.
Trimming machine. N. E. Sargeant. 1,786,676; Dec. 30.
Trip hook. G. J. Doering. 1,786,523; Dec. 30.
Trolley ear and attachment therefor. A. G. Scott. 1,787,091; Dec. 30.
Trolley pole. E. D. Moore. 1,787,013; Dec. 30.
Trolley-pole base. E. D. Moore. 1,787,012; Dec. 30.
Trolley silencer. E. D. Moore and F. R. Dippman. 1,786,717; Dec. 30.
Trolley-wire contactor. G. D. Rabun. 1,786,449; Dec. 30.
Trough, Eaves. M. Rachlin. Des. 82,957; Dec. 30.
Truck, Car. F. L. Barber and E. W. Webb. 1,787,031; Dec. 30.
Truck, Dumping. R. J. Burrown and H. D. Burnside. 1,786,560; Dec. 30.
Truck trailer, Motor-. J. Salomonsen. 1,787,213; Dec. 30.
Tube: *See*—
Superheater tube.
Tube forming and reeling machine. L. A. Becker and J. M. Munson. 1,787,232; Dec. 30.
Tube making, Vacuum-. F. S. McCullough. 1,787,082; Dec. 30.
Tube-splicing press. C. E. Maynard. 1,786,440; Dec. 30.
Tubular members, Attachment for. J. S. Reid. 1,786,721; Dec. 30.
Tumbler. J. M. Payne, jr. Des. 82,953–4; Dec. 30.
Turbine, Elastic-fluid. L. C. Fletcher. 1,786,942; Dec. 30.
Turbine, Elastic-fluid. H. L. Guy. 1,786,993; Dec. 30.
Turbine, Steam. K. Röder. 1,787,263; Dec. 30.
2-amine-beta-phenyl-anthraquinone by amination, Preparation of. P. H. Groggins. 1,786,531; Dec. 30.
Undergarment. F. J. Lewis. 1,787,045; Dec. 30.
Unicontrol apparatus for radio receiving sets. L. L. Jones. 1,787,275; Dec. 30.

Unloading machine, Portable. W. K. Liggett. 1,786,665; Dec. 30.
Vacuum cleaner. E. Jnelson. 1,786,756; Dec. 30.
Valve. C. A. Dopp. 1,787,236; Dec. 30.
Valve. A. A. Hasselquist and I. H. M. Rognlie. 1,786,750; Dec. 30.
Valve. F. B. Rickenberg. 1,787,212; Dec. 30.
Valve, Automatic water-heater control. R. C. Hoyt. 1,786,948; Dec. 30.
Valve for maintaining constant liquid height in tank. C. F. Peltzman. 1,787,420; Dec. 30.
Valve lock. S. Spangler. 1,787,401; Dec. 30.
Valve lock, Gas. A. E. Kramer and J. W. Platt. 1,786,954; Dec. 30.
Valve, Mixing. H. R. Becker. 1,787,304; Dec. 30.
Valve, Mixing. L. Sinclair. 1,787,215; Dec. 30.
Valve-operating mechanism, Hydraulic. W. Noble. 1,787,120; Dec. 30.
Valve, Pump-regulating. H. F. Bickel. 1,786,474; Dec. 30.
Valve, Refrigerator equalizer. M. C. Terry. 1,786,791; Dec. 30.
Valve, Relief. E. B. Ranck. 1,786,918; Dec. 30.
Valve, Throttle. M. Rivkin. 1,786,578; Dec. 30.
Valve with removable ring-seating surface. R. E. Bissell 1,786,596; Dec. 30.
Valves, Apparatus for making composition-rubber float. E. L. Delany. 1,786,483; Dec. 30.
Vanity case. S. Morrison. Des. 82,964; Dec. 30.
Vault release. H. Anderson. 1,786,975; Dec. 30.
Vehicle. H. Aanonson. 1,787,029; Dec. 30.
Vehicle body, Motor. W. Gowen. 1,786,990; Dec. 30.
Vehicle body, Motor. E. F. Roberts. 1,787,169; Dec. 30.
Vehicle brake. E. J. Madden. 1,786,856; Dec. 30.
Vehicle brake. E. J. Madden. 1,786,912; Dec. 30.
Vehicle construction. L. Underwood. 1,787,131; Dec. 30.
Vehicle, Endless-track. A. Kégresse. 1,786,430; Dec. 30.
Vehicle, Motor. C. H. Ingwer. 1,787,155; Dec. 30.
Vehicle, Occupant-propelled. W. J. Pugh. 1,787,322; Dec. 30.
Vehicle, Self-propelled railway. H. Glaenzer and C. C. Burkhardt. 1,787,368; Dec. 30.
Vehicle signal. E. Jones. 1,787,382; Dec. 30.
Vehicles, Lighting motor. K. D. Chambers. 1,786,518; Dec. 30.
Vehicles, Tilting device for. A. Williamson. 1,787,589; Dec. 30.
Vending machine. C. Lea. 1,787,204; Dec. 30.
Vending machine. W. S. Runnels. 1,786,868; Dec. 30.
Vent for storage batteries. G. E. Petrosky. 1,786,961; Dec. 30.
Vibration-translating device such for example as loud-speakers, Electromechanical. M. Trouton. 1,786,584; Dec. 30.
Vibrator and using the same. C. A. Priest. 1,787,211; Dec. 30.
Vibratory device, Electrically-operated. M. Trouton. 1,786,583; Dec. 30.
Vinyl esters of organic acids, Preparing. H. B. Dykstra and C. Sly. 1,786,647; Dec. 30.
Violin. H. P. Brown and P. F. Truscinski. 1,786,891; Dec. 30.
Violins. Attachment for. M. F. Connell. 1,786,478; Dec. 30.
Viscometer. A. G. M. Michell. 1,786,574; Dec. 30.
Wall for buildings and the like, Iron frame. A. Frank. 1,787,367; Dec. 30.
Wall-protecting device, Vault-. E. C. Kinnear. 1,787,007; Dec. 30.
Wall structure and attachment. H. G. Geoffray. 1,787,038; Dec. 30.
Wall, Water-cooled. K. Prantner. 1,787,019; Dec. 30.
Wallett. J. H. Scheuer. 1,787,054; Dec. 30.
Warp stop motion, Mechanical. W. E. Wakefield. 1,786,686; Dec. 30.
Warping frame. W. Reiners and G. Kahlisch. 1,787,323; Dec. 30.
Washer: *See*—
Clothes washer. Lock washer.
Watchcase. D. P. Lyons. 1,786,762; Dec. 30.
Water and steam generator, Hot-. A. M. Kolstad. 1,786,660; Dec. 30.
Water heater, Secondary. G. Olson, and E. H. Kehl. 1,786,547; Dec. 30.
Water softening and purification. A. R. Moberg. 1,786,501; Dec. 30.
Water-softening apparatus. E. T. Turner. 1,787,129; Dec. 30.
Water-supply system, Constant-. M. I. Weil. 1,786,804; Dec. 30.
Water system. C. Warner. 1,786,468; Dec. 30.
Water system for reclaiming white water or any fiber, White-. C. Dupuis. 1,787,341; Dec. 30.
Webs of woven material, Treating dry. H. Maly. 1,787,385; Dec. 30.
Weft detector. R. G. Turner. 1,786,683; Dec. 30.
Welding, Electric. J. F. Lawson. 1,786,759; Dec. 30.
Welding machine. G. S. Lewis. 1,787,115; Dec. 30.
Welding machine, Seam-. W. H. Gibb. 1,787,039; Dec. 30.
Welding process. H. G. Spilsbury. 1,787,056; Dec. 30.
Welding, Shaping edges for fusion. H. J. Grow. 1,787,247; Dec. 30.
Well-capping device. J. O. Johnson. 1,786,848; Dec. 30.
Wheel: *See*—
Power wheel. Traction wheel.
Resilient wheel.
Wheel and wheel journal. J. A. Mahr. 1,786,764; Dec. 30.
Wheel puller, Gear-. W. G. Opel. 1,787,016; Dec. 30.
Wheel spider, Demountable. A. S. Van Halteren. 1,786,794; Dec. 30.
Wheels, Making wire. J. G. Swain. 1,787,128; Dec. 30.
Whisk whip. A. S. Dawson. 1,786,603; Dec. 30.
Whistle, Exhaust. J. Evich. 1,786,905; Dec. 30.
Windmill. J. Henderson. 1,787,072; Dec. 30.
Window-drape illuminator. F. W. Steinmeyer. 1,786,787; Dec. 30.
Window, Sash. A. Pietronigro. 1,787,284; Dec. 30.
Windshield-clearing device. A. W. Becker. 1,786,932; Dec. 30.
Wiper element and construction, Windshield. R. D. Sarver. 1,786,457; Dec. 30.
Wiper, Label. A. P. Exvall. 1,786,940; Dec. 30.
Wire feeding, Method and apparatus for continuous. C. F. Bailey. 1,787,301; Dec. 30.
Withdrawing feeler. O. V. Payne. 1,786,673; Dec. 30.
Wooden construction. W. Greim. 1,786,991; Dec. 30.
Woodworking machine. W. T. Fisk. 1,787,191; Dec. 30.
Wrap, All-weather double-service. M. B. Paradise. 1,786,960; Dec. 30.
Wrapping machine, Semiautomatic. F. Marasso. 1,787,116; Dec. 30.
Wrapping machines, Article feed for. C. Kehling. 1,786,494; Dec. 30.
Wrench. L. D. Baird. 1,787,185; Dec. 30.
Wrench. H. B. Butlin. 1,786,701; Dec. 30.
Yarn-tensioning device. J. O. McKean. 1,787,083; Dec. 30.

CLASSIFICATION OF PATENTS

ISSUED DECEMBER 30, 1930

NOTE.—First number=class, second number=subclass, third number=patent number

1— 2: 1,786,870; 3: 1,787,285
2— 41: 1,786,544; 42: 1,786,895; 65: 1,787,117; 67: 1,786,869; 78: 1,787,045; 1,787,098; 88: 1,786,900; 102: 1,787,216; 116: 1,786,919; 123: 1,787,113; 132: 1,786,535; 146: 1,787,226; 195: 1,787,378; 201: 1,787,043; 254: 1,786,879
4— 177: 1,786,613
5— 81: 1,787,380
8— 2: 1,787,395
9— 24: 1,786,451
10— 162: 1,786,469
12— 17: R. 17,914; 1,787,384; 128.5: 1,786,965; 136: 1,786,540; 142: 1,786,907; 1,786,983
15— 21: 1,787,306; 41: 1,786,864; 134: 1,786,723; 255: 1,786,457; 1,787,068
16— 62: 1,786,782; 66: 1,787,073; 160: 1,787,249; 194: 1,787,111; 210: 1,786,428
17— 4: 1,786,632
18— 17: 1,786,440; 27: 1,786,634; 35: 1,786,483; 1,787,177; 47.5: 1,786,488; 50: 1,787,064; 1,787,065; 53: 1,786,563; 1,787,258; 54: 1,786,941; 59: 1,787,145
19— 37: 1,786,904; 62: 1,786,972; 147: 1,786,669
20— 6: 1,787,067; 8: 1,787,027; 20: 1,786,505; 1,787,238; 1,787,302; 40.5: 1,786,932; 50: 1,787,284; 92: 1,786,497; 1,786,991
22— 33: 1,786,672; 57: 1,786,629; 206: 1,787,056
23— 8: 1,786,581; 41: 1,787,356; 53: 1,787,078; 84: 1,787,033; 86: 1,787,048; 1,787,080; 112: 1,787,008; 142: 1,787,124; 165: 1,787,192; 184: 1,786,516; 225: 1,786,509; 234: 1,786,490; 250: 1,787,402
24— 3: 1,786,674; 19: 1,786,612; 1,787,150; 90: 1,786,839; 1,786,840; 150: 1,787,143; 152: 1,787,253; 205: 1,786,978; 206: 1,786,943
24— 238: 1,787,318
25— 1: 1,787,219; 2: 1,787,175; 30: 1,786,586; 1,787,094; 99: 1,786,837; 131: 1,787,107; 131.5: 1,786,522
26— 49: 1,786,421; 1,787,385
28— 32: 1,787,323; 56: 1,786,813
29— 17: 1,786,793; 18: 1,786,834; 27: 1,786,442; 85: 1,787,016; 1,787,070; 86.3: 1,786,715; 87.1: 1,787,142; 148: 1,787,266; 149.5: 1,787,255; 156: 1,787,257; 157.3: 1,786,571; 174: 1,787,128
30— 3: 1,787,046; 9: 1,787,375; 11: 1,786,625; 1,786,849; 1,787,057; 12: 1,787,093; 1,787,240; 1,787,241; 58: 1,786,846; 1,787,152; 85: 1,786,786
32— 1: 1,786,915
33— 42: 1,787,313; 137: 1,786,845; 180: 1,786,638; 184.5: 1,787,037; 6: 1,787,197; 12: 1,787,063; 26: 1,786,969; 1,787,251; 33: 1,787,280; 34: 1,787,009
36— 5: 1,786,984
37— 42: 1,786,974; 118: 1,786,448; 155: 1,786,803; 181: 1,787,295; 16: 1,787,308; 28: 1,786,450; 52: 1,787,333; 1,787,334; 102: 1,787,237; 125: 1,787,335; 130: 1,787,355; 133: 1,786,564; 145: 1,786,883
41— 17: 1,786,789; 23: 1,787,371
42— 1: 1,786,614; 3: 1,786,536; 44: 1,787,004; 59: 1,787,354; 87: 1,786,537; 91: 1,786,520
43— 46: 1,786,568; 107: 1,786,599; 1,787,421; 122: 1,786,704
45— 2: 1,787,344; 6: 1,786,628; 1,786,823; 51: 1,786,471; 69: 1,787,363; 141: 1,787,373
46— 14: 1,787,349; 40: 1,786,572; 1,786,588; 1,786,737; 1,787,174; 1,787,207; 48: 1,787,034; 53: 1,787,159
47— 39: 1,786,995
49— 1: 1,786,456; 5: 1,787,312; 17: 1,786,892; 33: 1,787,391
50— 27: 1,786,894
51— 102: 1,786,553; 103: 1,787,337; 108: 1,787,412; 200: 1,787,372; 251: 1,786,820
53— 3: 1,787,394; 4: 1,786,507; 1,786,877; 7: 1,787,171; 1,787,172
55— 9: 1,786,464; 23: 1,786,510; 81: 1,786,863; 108: 1,787,026; 146: 1,786,770
56— 16: 1,786,850; 47: 1,786,851; 207: 1,786,487
58— 88: 1,786,762
59— 6: 1,786,707; 80: 1,787,405
60— 41: 1,786,946; 54: 1,786,433; 54.6: 1,786,912; 53: 1,786,968; 73: 1,787,000
62— 4: 1,787,209; 46: 1,786,817; 115: 1,786,791; 116: 1,786,536; 118: 1,786,861; 122: 1,786,898
64— 91: 1,786,810
66— 93: 1,787,010; 178: 1,786,862; 180: 1,787,365; 190: 1,787,264
68— 9: 1,787,125; 12: 1,786,533; 15: 1,787,243; 19: 1,787,244; 32: 1,786,705
69— 15: 1,787,052
70— 46: 1,786,521; 1,787,272; 55: 1,786,447; 90: 1,787,134; 92: 1,786,648; 108: 1,786,511; 128: 1,786,582
71— 7: 1,786,651
72— 1: 1,787,149; 16: 1,786,732; 1,787,367; 18: 1,786,753; 30: 1,786,691; 40: 1,787,166; 101: 1,786,446; 118: R. 17,913; 129: 1,786,622
73— 82: 1,786,566; 118: 1,787,327
74— 1: 1,786,875; 7: 1,787,217; 1,787,275; 14: 1,787,173; 1,787,164; 54: 1,786,970; 1,787,265; 55: 1,786,763; 59: 1,786,980; 92: 1,787,267; 100: 1,786,492; 108: 1,786,934; 1,787,119
75— 14: 1,786,999; 15: 1,786,908; 17: 1,787,348; 27: 1,786,806
76— 27: 1,786,444; 101: 1,787,087; 154: 1,787,076
78— 46: 1,787,346
80— 44: 1,786,575; 60: 1,786,775
81— 53: 1,787,185; 114: 1,786,701; 188: 1,786,590
82— 38: 1,786,876; 43: 1,786,557
83— 11: 1,786,694; 1,786,695; 14: 1,787,180; 75: 1,786,679
84— 195: 1,787,002; 275: 1,786,891; 280: 1,786,478; 322: 1,787,136; 384: 1,786,833; 456: 1,787,196; 461: 1,786,441
85— 35: 1,787,154
87— 2: 1,787,281; 5: 1,786,860; 17: 1,786,417; 23: 1,786,513; 28: 1,786,630
88— 1: 1,786,518; 1,786,958; 1,787,269; 1,787,388; 16: 1,787,023; 16.2: 1,786,903; 18: 1,786,977; 24: 1,786,543; 1,787,198; 52: 1,786,580; 57: 1,786,916
89— 40: 1,786,615
90— 3: 1,786,689; 4: 1,786,697; 9: 1,786,551; 1,786,552
91— 12.6: 1,787,141; 43: 1,786,785; 1,787,126; 1,787,140; 47: 1,786,476; 59: 1,786,437; 68: 1,786,911; 1,786,920; 70: 1,786,824
92— 11: 1,786,890; 20: 1,786,538; 1,786,973; 38: 1,787,341; 39: 1,787,047; 40: 1,786,651; 41: 1,786,462; 45: 1,786,933; 48: 1,787,218; 74: 1,786,587
93— 2: 1,787,116; 8: 1,787,232
94— 8: 1,787,049
95— 2: 1,787,201; 15: 1,787,309
97— 22: 1,786,661; 47: 1,786,591; 1,787,228; 125: 1,787,366; 127: 1,787,127; 1,787,137; 215: 1,786,455
99— 5: 1,786,559; 10: 1,787,193; 11: 1,786,831; 16: 1,786,606
101— 20: 1,787,234; 33: 1,786,570; 170: R. 17,912; 292: 1,786,867; 375: 1,787,187
102— 36: 1,786,664; 39: 1,786,640
103— 6: 1,786,468; 25: 1,786,804; 87: 1,787,088; 103: 1,786,435; 154: 1,787,346; 236: 1,786,700
104— 262: 1,787,329
105— 35: 1,787,368; 42: 1,786,854; 159: 1,786,463; 197: 1,787,031; 280: 1,786,747; 366: 1,786,495; 1,786,620; 368: 1,786,735; 1,786,736
106— 9: 1,786,482; 20: 1,787,162; 21: 1,786,713; 1,786,714
107— 7: 1,787,254; 18: 1,786,637
108— 6.5: 1,786,751
109— 3: 1,786,975; 6: 1,786,976; 1,787,007; 18: 1,787,081; 40: 1,786,646; 104: 1,786,887; 135: 1,786,517; 181: 1,786,944; 251: 1,786,618; 260: 1,786,929
113— 7: 1,787,324; 14: 1,787,369; 30: 1,787,050; 48: 1,787,151
114— 16.7: 1,786,627; 27: 1,786,514
115— 17: 1,786,835; 41: 1,786,997
116— 63: 1,786,678; 73: 1,787,271; 124.1: 1,787,298; 138: 1,786,905
117— 59: 1,786,936
119— 10: 1,786,427; 16: 1,786,769; 22: 1,786,443; 51: 1,786,777; 52: 1,787,330; 77: 1,787,015
120— 14: 1,786,434; 33: 1,786,874; 1,787,362; 34: 1,786,567; 52: 1,787,406
121— 32: 1,787,178; 1,787,229; 134: 1,786,918
122— 6: 1,786,593; 1,787,019; 20: 1,786,660; 149: 1,786,961; 235: 1,786,528; 302: 1,786,913; 462: 1,787,021
123— 1: 1,787,419; 32: 1,787,326; 59: 1,787,186; 78: 1,786,423; 90: 1,786,716; 1,787,120; 171: 1,787,041; 190: 1,787,121; 196: 1,787,223; 198: 1,787,360; 199: 1,786,453; 190: 1,786,429; 215: 1,786,562; 339: 1,787,022
126— 45: 1,787,211; 81: 1,787,398
128— 8: 1,786,816; 9: 1,786,617
129— 16: 1,787,410; 16.7: 1,786,616; 17: 1,786,857; 37: 1,786,519; 39: 1,786,608; 1,786,609; 49: 1,787,396; 51: 1,786,902
131— 36.2: 1,786,881; 50: 1,787,393; 82: 1,786,418; 1,787,283
132— 6: 1,787,085; 1: 1,787,338; 1,787,339; 1,787,418; 36: 1,787,239; 38: 1,787,233; 4: 1,786,928; 81: 1,786,742; 175: 1,786,945; 177: 1,786,961; 205: 1,786,750; 34.3: 1,786,878; 68: 1,787,130; 1,787,389; 70: 1,787,112; 76: 1,787,040; 78: 1,786,963; 1,786,993; 91: 1,786,467; 1,786,491; 100: 1,786,882; 103: 1,787,374; 104: 1,787,420; 139: 1,787,212; 153: 1,786,474; 158: 1,786,942; 1,786,987
133— 6: 1,787,085
134— 1: 1,787,338; 1,787,339; 1,787,418; 36: 1,787,239; 38: 1,787,233; 4: 1,786,928; 81: 1,786,742; 175: 1,786,945; 177: 1,786,961; 205: 1,786,750; 34.3: 1,786,878; 68: 1,787,130; 1,787,389; 70: 1,787,112; 76: 1,787,040; 78: 1,786,963; 1,786,993; 91: 1,786,467; 1,786,491; 100: 1,786,882; 103: 1,787,374; 104: 1,787,420; 139: 1,787,212; 153: 1,786,474; 158: 1,786,942; 1,786,987
138— 16: 1,787,328
139— 55: 1,786,696; 1,786,710; 59: 1,786,656; 74: 1,786,712; 77: 1,786,687; 103: 1,786,657; 147: 1,786,709; 160: 1,787,182; 180: 1,786,708; 183: 1,786,702; 1,786,703; 218: 1,786,602; 232: 1,786,688; 1,786,706; 1,786,711; 247: 1,786,671; 251: 1,786,655; 1,786,690; 1,786,685; 1,786,692; 257: 1,786,682; 259: 1,786,659; 271: 1,786,673; 287: 1,786,683; 289: 1,786,654; 294: 1,786,684; 336: 1,786,667; 348: 1,787,359; 349: 1,786,675; 360: 1,786,686; 383: 1,786,569; 405: 1,787,051
140— 3: 1,786,953; 125: 1,787,301
141— 12: 1,787,156
143— 6: 1,787,191; 32: 1,786,641; 1,787,195; 47: 1,786,676; 120: 1,786,776; 141: 1,786,959; 168: 1,786,925
144— 52: 1,786,486; 214: 1,786,460
146— 28: 1,786,724; 67: 1,786,698; 1,786,699

146— 103: 1,787,288
148— 9: 1,787,247
31: 1,787,403
149— 4: 1,786,880
150— 4: 1,787,224
5: 1,786,426
38: 1,787,054
39: 1,786,896
151— 5: 1,787,114
35: 1,786,502
1,786,503
152— 1: 1,786,957
14: 1,786,653
41: 1,787,071
153— 16: 1,786,496
32: 1,786,847
1,787,095
154— 2: 1,786,781
1,787,163
2.5: 1,786,549
9: 1,786,499
1,787,168
1,787,411
1,787,423
10: 1,787,413
1,787,414
40: 1,787,404
42: 1,787,138
155— 22: 1,786,663
41: 1,787,245
88: 1,787,108
142: 1,786,473
156— 17: 1,787,158
19: 1,786,498
22: 1,786,645
23: 1,787,097
36: 1,786,512
39: 1,786,550
158— 11: 1,786,900
28: 1,786,832
42: 1,787,189
161— 9: 1,787,422
164— 34: 1,786,542
65: 1,787,208
68: 1,786,726
1,786,992
70: 1,787,170
121: 1,787,358
166— 1: 1,786,897
1.1: 1,786,761
15: 1,786,848
167— 24: 1,786,967
35: 1,786,623
67: 1,786,873
74: 1,787,179
170— 33: 1,787,072
149: 1,787,133
161: 1,786,644
168: 1,787,220
171— 118: 1,786,792
119: 1,786,422
1,787,303
221: 1,786,772
225: 1,787,028
252: 1,787,014
264: 1,786,821
172— 179: 1,786,815
1,787,278
237: 1,786,888
239: 1,786,755
1,787,320
240: 1,786,554
274: 1,786,799
1,787,133
173— 28: 1,786,458
31: 1,787,351
266: 1,786,585
268: 1,786,830
311: 1,786,765
318: 1,786,767
1,786,784
1,786,801
330: 1,786,598
332: 1,787,260
339: 1,787,084
353: 1,786,600
366: 1,786,987
174— 89: 1,786,541
177: 1,786,439
175— 41: R. 17,916
183: 1,786,910
264: 1,787,188
294: 1,787,181
1,787,277
298: 1,787,053
320: 1,787,299
336: 1,786,583
1,786,584
339: 1,786,479
356: 1,786,604
1,786,899
358: 1,786,853
176— 123: 1,786,626
177— 7: 1,786,930
311.5: 1,786,841
329: 1,787,382
351: 1,787,132
353: 1,786,780
1,786,805
1,786,807
361: 1,786,524
178— 6: 1,786,652
1,786,812
7: 1,787,273
179— 27: 1,786,480
100.4: 1,786,982
1,787,392
100.41: 1,786,436
1,786,985
1,787,290
115.5: 1,786,465
153: 1,786,986
171: R. 17,915
1,786,579
1,786,666
173: 1,786,546
180— 4: 1,787,029
14: 1,787,213
79.3: 1,787,319
181— 26: 1,786,859
31: 1,786,949
1,787,003
1,787,268
32: 1,787,055
182— 25: 1,786,597
183— 2.7: 1,786,790
4: 1,787,231
36: 1,786,756
45: 1,787,235
71: 1,787,135
184— 6: 1,787,409
7: 1,786,548
42: 1,787,011
185— 40: 1,786,979
43: 1,787,343
188— 10: 1,787,377
32: 1,786,774
73: 1,786,461
140: 1,786,808
152: 1,786,438
1,786,633
1,786,856
162: 1,786,996
171: 1,787,044
194: 1,786,670
199: 1,787,123
204: 1,787,092
240: 1,787,376
189— 27: 1,786,631
34: 1,786,822
36: 1,787,167
37: 1,786,938
78: 1,787,386
190— 12: 1,786,607
191— 43: 1,787,091
64: 1,786,717
191— 64: 1,786,718
1,786,719
1,786,720
1,787,012
1,787,013
192— 12: 1,787,203
13: 1,787,160
17: 1,786,955
36: 1,786,749
59: 1,787,246
84: 1,787,225
194— 58: 1,786,868
93: 1,787,204
97: 1,786,466
102: 1,787,099
196— 16: 1,787,353
40: 1,786,650
49: 1,786,947
77: 1,786,639
79: 1,786,493
198— 26: 1,786,494
53: 1,786,665
133: 1,787,383
158: 1,786,485
165: 1,786,779
200— 2: 1,786,746
7: 1,787,262
15: 1,787,381
36: 1,787,059
47: 1,787,292
50: 1,786,757
1,787,314
1,786,843
52: 1,786,778
1,787,350
54: 1,786,727
67: 1,786,796
116: 1,786,797
1,786,798
119: 1,787,109
150: 1,787,227
153: 1,786,935
166: 1,787,058
1,787,291
168: 1,787,210
202— 159: 1,787,399
204— 1: 1,787,139
5: 1,786,592
206— 38: 1,787,361
41: 1,786,743
1,787,222
69: 1,787,364
72: 1,787,387
208— 36: 1,787,322
209— 2: 1,787,161
118: 1,787,096
144: 1,787,079
467: 1,786,738
1,786,739
1,786,740
1,787,340
210— 23: 1,786,501
24: 1,787,129
63: 1,786,475
103: 1,786,744
67: 1,787,242
159: 1,786,500
195: 1,787,100
207: 1,787,274
213— 50: 1,786,914
71: 1,786,419
188: 1,786,872
214— 1: 1,786,589
15: 1,787,025
18: 1,787,248
119: 1,786,734
121: 1,786,884
215— 3: 1,787,018
216— 9: 1,786,939
38: 1,786,940
217— 36: 1,787,305
125: 1,786,998
218— 0.5: 1,787,190
219— 4: 1,787,039
4: 1,787,115
10: 1,786,759
220— 9: 1,786,827
1,787,379
24: 1,786,802
1,787,221
31: 1,787,183
39: 1,786,826
40: 1,786,721
1,786,722
55: 1,787,390
63: 1,787,101
86: 1,787,250
97: 1,786,733
221— 60: 1,787,060
1,787,061
69: 1,787,347
223— 19: 1,787,165
37: 1,786,619
62: 1,786,923
226— 20: 1,786,858
92: 1,786,760
229— 5.5: 1,787,332
33: 1,787,030
230— 1: 1,787,153
114: 1,787,062
152: 1,786,893
176: 1,786,595
232— 6: 1,786,725
1,786,811
233— 28: 1,786,921
45: 1,787,311
234— 27: 1,787,066
28: 1,787,256
235— 7: 1,786,525
30: 1,786,745
81: 1,787,259
130: 1,786,454
1,786,964
236— 9: 1,786,901
12: 1,787,215
1,787,304
14: 1,787,407
15: 1,786,931
25: 1,786,948
70: 1,787,176
99: 1,787,146
102: 1,786,852
237— 79: 1,787,184
238— 208: 1,787,090
263: 1,787,089
240— 1: 1,786,787
2.11: 1,786,788
4.1: 1,786,420
6: 1,786,601
7.1: 1,786,962
8.16: 1,786,768
25: 1,787,279
44.2: 1,786,515
1,786,758
1,786,814
78: 1,786,748
85: 1,787,032
103: 1,786,744
108: 1,787,357
242— 66: 1,787,104
75: 1,786,917
86: 1,787,194
150: 1,787,083
243— 36: 1,787,206
244— 1: 1,787,397
2: 1,786,649
3: 1,787,293
12: 1,787,297
1,787,321
1,787,370
14: 1,786,545
15: 1,787,325
19: 1,786,576
21: 1,786,838
29: 1,786,668
30: 1,787,294
244— 31: 1,786,472
246— 30: 1,786,610
49: 1,786,783
124: 1,786,795
1,786,971
133: 1,786,818
208: 1,786,534
254: 1,786,449
321: 1,787,336
247— 6: 1,786,728
1,786,729
1,786,731
27: 1,786,425
248— 17: 1,787,038
20: 1,786,994
30.5: 1,787,252
31: 1,787,106
41: 1,787,270
65: 1,786,459
250— 27: 1,786,555
1,787,300
27.5: 1,787,082
251— 6: 1,787,401
45: 1,787,105
46: 1,787,236
119: 1,786,844
159: 1,786,596
164: 1,786,954
167: 1,786,885
252— 5: 1,786,842
254— 1: 1,786,643
100: 1,786,866
111: 1,786,754
255— 67: 1,787,001
75: 1,786,484
256— 56: 1,786,573
257— 28: 1,787,144
131: 1,787,118
136: 1,786,952
198: 1,786,819
230: 1,786,909
239: 1,787,086
248: 1,786,547
259— 8: 1,787,289
9: 1,786,556
144: 1,786,603
260— 37: 1,787,069
44: 1,787,315
1,787,342
51: 1,786,800
57: 1,786,530
1,786,531
1,786,950
1,787,416
1,787,417
64: 1,786,526
1,786,527
1,786,528
1,786,529
65: 1,786,611
101: 1,786,989
106: 1,786,647
130.5: 1,786,766
150: 1,787,036
154: 1,786,922
156: 1,787,205
159: 1,787,408
261— 12: 1,787,310
69: 1,787,148
1,787,230
121: 1,786,432
263— 1: 1,786,951
8: 1,787,307
15: 1,786,829
265— 9: 1,787,287
11: 1,786,574
66: 1,787,352
266— 4: 1,786,508
267— 10: 1,786,956
1,787,282
270— 68: 1,786,773
271— 32: 1,787,077
62: 1,786,477
86: 1,786,752
272— 32: 1,786,658
273— 33: 1,787,400
74: 1,786,577
80: 1,787,415
148: 1,786,809
274— 39: 1,786,445
275— 2: 1,786,886
277— 37: 1,786,578
280— 89: 1,787,042
95: 1,787,345
106.5: 1,786,906
281— 3: 1,787,005
15: 1,787,276
29: 1,786,504
285— 24: 1,787,122
37: 1,786,558
49: 1,786,771
84: 1,786,489
90: 1,786,506
1,786,642
189: 1,786,825
286— 25: 1,787,020
27: 1,787,317
287— 20: 1,786,730
52.02: 1,787,017
289— 3: 1,787,102
292— 19: 1,787,202
27: 1,787,110
196: 1,786,470
241: 1,786,452
338: 1,787,147
340: 1,787,296
293— 34: 1,786,690
54: 1,787,035
55: 1,786,865
294— 83: 1,786,523
118: 1,787,331
295— 8.5: 1,787,131
296— 29: 1,787,169
47: 1,786,990
84: 1,786,635
105: 1,786,662
108: 1,786,693
116: 1,786,927
137: 1,787,155
298— 21: 1,787,342
38: 1,786,560
299— 45: 1,786,431
84: 1,786,561
89: 1,786,889
141: 1,786,988
1,787,024
301— 9: 1,786,794
1,787,074
39: 1,786,871
44: 1,786,855
67: 1,787,075
108: 1,786,764
302— 60: 1,786,677
1,787,261
304— 39: 1,787,006
305— 9: 1,786,430
10: 1,786,539
1,786,924
306— 33: 1,786,636
308— 2: 1,786,424
18: 1,786,741
48: 1,786,605
77: 1,787,263
164: 1,786,565
213: 1,786,926
1,787,214
312— 30: 1,787,286
37: 1,786,966
78: 1,786,594

U. S. GOVERNMENT PRINTING OFFICE: 1930

THE
OFFICIAL GAZETTE
OF THE
United States Patent Office

Vol 401—No. 1 TUESDAY, DECEMBER 2, 1930 Price—$10 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscription, $10.00 per annum; including annual indexes, $11.50; single numbers, 25 cents each.
PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.
CIRCULARS OF GENERAL INFORMATION concerning PATENTS or concerning TRADE-MARKS, PRINTS, and LABELS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

CONTENTS

	Page
Issue of December 2, 1930	1
Trade-Marks Canceled	1
Adjudicated Patents	1
Applications Under Examination	2
Commissioner's Decision—	
Ex parte Jenkins	3
Decisions of the U. S. Courts—	
In re Coley	4
Patent Suits	7
Adverse Decisions in Interference	8
Trade-Marks Published (251 Applications)	9
Trade-Mark Registrations Granted	40
Trade-Mark Registrations Renewed	51
Labels	53
Prints	54
Reissues	55
Designs	57
Patents Granted	72

Issue of December 2, 1930

Trade-Marks	279—No.	277,861 to No.	278,139, inclusive.
T. M. Renewals	53		
Labels	41—No.	38,313 to No.	38,353, inclusive.
Prints	26—No.	12,828 to No.	12,853, inclusive.
Reissues	9—No.	17,888 to No.	17,896, inclusive.
Designs	71—No.	82,648 to No.	82,718, inclusive.
Patents	776—No.	1,783,173 to No.	1,783,948, inclusive.
Total	1,255		

Trade-Marks Canceled

40,397. Hair lotions. Augustine Cornioley, Paris, France. Registered May 19, 1903. Canceled October 1, 1930.

100,031. Treatment of tuberculosis. Emil Roller, New York, N. Y. Registered September 29, 1914. Canceled November 5, 1930.

118,590. Certain named medicinal preparation. Henry Thayer & Company, Inc., Cambridge, Mass. Registered September 18, 1917. Canceled November 5, 1930.

145,823. Certain named medicinal preparation. Frederick Stearns & Company, Detroit, Mich. Registered August 16, 1921. Canceled November 5, 1930.

180,094. Fresh fish and shellfish. Birdseye Seafoods, Inc., New York, N. Y. Registered February 19, 1924. Canceled November 5, 1930.

180,095. Fresh fish and shellfish. Birdseye Seafoods, Inc., New York, N. Y. Registered February 19, 1924. Canceled November 5, 1930.

182,608. Fresh fish and shellfish. Birdseye Seafoods, Inc., New York, N. Y. Registered April 15, 1924. Canceled November 5, 1930.

189,811. Ginger ale. Canada Dry Ginger Ale, Incorporated, New York, N. Y. Registered September 23, 1924. Canceled November 6, 1930.

191,102. Ginger ale. Canada Dry Ginger Ale, Incorporated, New York, N. Y. Registered October 28, 1924. Canceled November 6, 1930.

195,934. Ginger ale. Canada Dry Ginger Ale, Inc., New York, N. Y., assignor to Canada Dry Ginger Ale, Incorporated, New York, N. Y. Registered March 3, 1925. Canceled November 6, 1930.

195,935. Ginger ale. Canada Dry Ginger Ale, Inc., New York, N. Y., assignor to Canada Dry Ginger Ale, Incorporated, New York, N. Y. Registered March 3, 1925. Canceled November 6, 1930.

195,936. Ginger ale. Canada Dry Ginger Ale, Inc., New York, N. Y., assignor to Canada Dry Ginger Ale, Incorporated, New York, N. Y. Registered March 3, 1925. Canceled November 6, 1930.

233,007. Women's and children's wearing apparel. Felix Brunschwig & Co., Inc., El Paso, Tex. Registered September 20, 1927. Canceled November 5, 1930.

235,551. Combination corsets and brassières. International Corset Company, Aurora, Ill. Registered November 22, 1927. Canceled November 5, 1930.

235,687. Certain named electrical apparatus and machines. Chicago Pneumatic Tool Company, New York, N. Y. Registered November 22, 1927. Canceled November 5, 1930.

247,470. Waterproof boxes and receptacles worn or carried by sportsmen. Daniel H. Strayer, Venice, Calif. Registered September 25, 1928. Canceled November 5, 1930.

254,340. Toilet lotion and cleanser for the skin. Petroleum Derivatives Company, Montclair, N. J. Registered March 19, 1929. Canceled November 5, 1930.

262,085. Cakes. Carmelo Scavuzzo, Boston, Mass. Registered September 24, 1929. Canceled November 5, 1930.

262,743. Liniment. The J. R. Watkins Company, Winona, Minn. Registered October 22, 1929. Canceled October 1, 1930.

Adjudicated Patents

(D. C. Tex.) Lovell and Brown patent, No. 1,544,465, for truck, *Held* invalid. *Atlas Trailers & Water Mufflers v. Gray's Iron Works*, 43 F.(2d) 191.

Condition of Applications Under Examination at Close of Business November 21, 1930

(Total number of applications awaiting action, excluding Trade-Mark Division, 110,806; Trade-Mark Division, 1,238. Oldest new case, Jan. 24, 1930; oldest amended, Jan. 29, 1930.

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	Apr. 4	Apr. 7	1,134
126	2. HADEN, C. F., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Velocipedes.	Feb. 24	Mar. 14	1,786
331	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	Apr. 3	Aug. 13	1,252
224	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	Apr. 14	Apr. 17	1,265
108*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	Apr. 1	Apr. 9	1,308
318	6. LEWERS, A. M., Carbon Chemistry	Feb. 12	Mar. 5	2,402
106	7. JARBOE, C. G., Optics; Photography	Feb. 14	Feb. 14	2,622
133	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Mar. 24	Apr. 2	1,677
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Apr. 26	Apr. 26	1,574
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Apr. 16	Apr. 17	1,512
148*	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Apr. 30	May 17	950
380	12. HENRY, C. C., Machine Elements	Mar. 28	Apr. 2	1,522
154*	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Apr. 10	Apr. 15	1,389
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	Mar. 24	Apr. 4	1,397
329	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Feb. 11	Feb. 10	2,965
242*	16. SPENCER, C. J., Telegraphy; Telephony	Mar. 31	Apr. 28	1,204
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Mar. 1	Mar. 6	1,659
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Apr. 3	Apr. 4	1,455
236	19. KENNEDY, A. R. (Acting), Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Feb. 21	Feb. 21	2,590
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	Mar. 24	Apr. 4	1,387
212	21. THOMPSON, T. J., Textiles; Cloth Finishing	Apr. 8	June 2	892
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Apr. 1	Apr. 23	1,532
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Feb. 21	Feb. 24	1,135
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Feb. 26	Mar. 26	1,122
202*	25. BLAKELEY, C. F., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Mar. 6	Mar. 8	1,630
228*	26. HODGES, J. S., Electricity, Generation; Motive Power	Mar. 24	Mar. 25	1,157
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Mar. 21	Mar. 22	1,388
225	28. BENSON, A. R., Internal-Combustion Engines	Feb. 24	Feb. 24	2,158
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	June 23	June 30	583
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Apr. 9	Sept. 3	993
312	31. HOLMES, W. N., Distillation; Gas, Heating and Illuminating; Mineral Oils	Jan. 25	Feb. 5	2,858
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	May 23	May 23	1,413
152	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	Apr 28	May 1	2,666
304	34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	Apr. 26	May 13	971
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	June 24	July 14	1,317
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	Mar. 20	Mar. 20	2,330
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Feb. 27	Feb. 28	2,035
145	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Mar. 3	Mar. 3	1,172
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Mar. 21	Mar. 21	1,816
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	Feb. 24	Apr. 1	3,365
125	41. WHITNEY, M. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	Apr. 28	Apr. 30	1,125
223*	42. CUTTING, H. O., Electric Signaling	Mar. 24	Mar. 19	1,707
124*	43. NASH, P. N., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Mar. 21	Mar. 21	1,785
253	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	Mar. 3	Mar. 6	2,230
379	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	Feb. 21	Feb. 21	2,476
233	46. TAYLOR, M., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Mar. 31	Apr. 8	1,391
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	Mar. 14	Apr. 11	2,395
212*	48. ROEPKE, O. B., Electricity, General Applications	Mar. 3	Mar. 15	1,291
239	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	May 9	July 8	1,588
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Feb. 4	Feb. 7	3,004
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Feb. 27	Feb. 28	2,454
144	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Apr. 12	Apr. 21	2,089
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	June 7	June 6	1,045
241	54. WAITE, W. E., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Feb. 6	Feb. 6	2,998
102	55. BOWEN, S. T.—{Bread, Pastry, and Confection Making; Cutlery {Designs	Sept. 2	Sept. 3	310
309	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Oct. 22	Nov. 5	289
257*	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Mar. 1	Mar. 1	2,321
270*	58. DOWELL, E. F., Abrading; Typewriting	Mar. 26	Apr. 25	1,031
315	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Cement and Lime; Hides, Skins, and Leather; Fuel	Feb. 21	Feb. 21	1,581
213*	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	Apr. 1	Apr. 1	1,843
269	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Horology; Time-Controlling Apparatus.	Jan. 31	Feb. 8	2,285
245*	62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Baggage; Package and Article Carriers	Jan. 24	Jan. 29	2,689
300	63. WINKELSTEIN, A. H., Bleaching and Dyeing; Explosive, Pyrotechnic, and Match Compositions; Oils, Fats, and Glue; Preserving; Sugar, Starch, and Carbohydrates.	Feb. 1	Feb. 1	2,770
		Feb. 21	Feb. 21	2,526
163	Trade-Marks, Labels, and Prints: F. A. RICHMOND.—{Trade-Marks {Labels and Prints	Oct. 21	Nov. 6	1,063
		Oct. 23	Nov. 8	175

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES

Commissioner's Decision

EX PARTE JENKINS

Decided August 29, 1930

1. APPLICATION—CLAIMS—UNDUE MULTIPLICITY—ACT OF 1927.

The act of 1927 providing for a fee of $1 for each claim in excess of 20 has no bearing upon the question whether the claims are unduly multiplied.

2. SAME—SAME—SAME.

Obviously claims should not be allowed which differ one from the other only in the inclusion of elements the addition of which could not in any sense of the word constitute invention.

3. SAME—SAME—SAME—ACTION BY EXAMINER.

Where an argument is presented in response to a requirement for a reduction of the number of claims because they are unduly multiplied, it was not necessary for the Examiner to answer, claim by claim, the argument as to the patentable differences between them. When he considered the argument and pointed out why in typical instances the alleged differences were not matters of invention, he had done all that was necessary.

4. SAME—REJECTION—WHAT RESPONSE NECESSARY.

Where the Examiner, in addition to requiring a reduction in the number of claims, required division between certain groups and applied the art to each claim, *Held* that a proper response would include not only an argument as to the requirement for reduction of the number of claims but a response to the requirement for division and to the action on the merits.

ON PETITION.

RIGID SUSPENSION SYSTEM AND METHOD OF ELECTRIC WIRING

Messrs. Jones, Addington, Ames & Seibold for the applicant.

ROBERTSON, *Commissioner:*

This is a petition that the Examiner be required to make a detailed reply to applicant's amendment of August 10, 1929, and "particularly to permit the present number of claims herewith submitted to stand."

In the first Office action the Examiner, after citing what he regarded as the pertinent art, stated that the number of claims is excessive. He divided the claims into groups and stated that there was no patentable difference between the claims of each group. He pointed out why certain features of the device as disclosed were broadly anticipated by certain of the references. In response to that action the applicant filed an amendment arguing that since the passage of the law requiring for the filing fee $20 and $1 for each claim over 20 the ruling made in *Ex parte Oswald*, 333 O. G. 3 no longer applied, and that the Examiner should give a detailed examination of each claim no matter how many there were and regardless of the differences between them. It was pointed out why the claims were deemed to be patentably different from each other.

In response to that action the Examiner cited additional references, stated that the passage of the law referred to had no bearing on the question, again pointed out why certain claims were regarded as not patentably different from each other, and stated that in view of applicant's argument as to the differences of the claims these claims were divided into groups and division between these groups required. He went further and applied the art to each claim, stating as to three groups that the claims thereof contained allowable subject matter but stood under the general rejection for multiplicity of claims.

The passage of the act referred to has nothing to do with the question whether certain claims presented are patentably different from each other. Obviously claims should not be allowed which differ one from the other only by the inclusion of elements the addition of which could not in any sense of the word constitute invention. For example, a claim which included the holes in the flanges by which two portions of the conduit were to be fastened together could not by any stretch of the imagination be patentably different from the claim identical therewith except for the statement as to the holes in the flanges (see *Ex parte McCullough*, 355 O. G. 185).

Moreover it was not necessary for the Examiner to answer, claim by claim, the argument which applicant presented as to the patentable differences between the claims. Having considered the argument and pointed out why, in typical instances, the alleged differences were not matters for invention, he had done all that was necessary. In view of that action it was for the applicant to decide whether he would acquiesce in the Examiner's ruling and cancel certain claims or insist upon his right to the claims as they then stood.

In the present case the Examiner has gone further than to merely repeat his rejection based on the multiplicity of the claims and has treated each claim individually as well as required division between certain groups of claims. A proper response to that action would include not only a response to the rejection based on the multiplicity of claims but also a response to the requirement for division and to the action on the merits.

Of course applicant need not repeat the argument he has already presented as to the patentable differences between the claims if he desires to rely upon that argument. A reference thereto would be sufficient.

The petition is denied.

U. S. Court of Customs and Patent Appeals

IN RE COLEY

No. 2,344. Decided May 28, 1930

[40 F.(2d) 982]

1. PATENTABILITY—PROCESS OF REDUCING ORES.
Claims for reducing ores *Held* patentable over the prior art.

2. SAME—SAME—RESOLUTION OF DOUBT.
Where there was filed an affidavit of a highly skilled metallurgist that applicant's process is not identical with those of the prior art and he seems to be supported by respectable authority, although the experts of the Patent Office assert that they are identical *Held* that there is shown such doubt that "the scales should be inclined toward the applicant."

3. APPEAL—WHAT MAY BE CONSIDERED.
The statute providing for appeals from the Patent Office states that the revision shall be restricted to the evidence produced before the Commissioner and the rule of the court provides that on appeal the Patent Office shall certify all papers and evidence in the matter which shall constitute the record to be considered by the court *Held* that the court will not consider a reference called to its attention in the brief for the Patent Office but not previously cited.

APPEAL from the Patent Office. Reversed.

Mr. Paul A. Blair, Mr. J. Harold Kilcoyne, Mr. Albert F. Nathan, Mr. Elmer R. Helferich, and *Mr. Ellis S. Middleton* for Coley.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

GRAHAM, *P. J.:*

This is an appeal in the matter of the application of Henry Edwin Coley, Serial No. 672,451, filed November 2, 1923, for a patent on an alleged improved process for the reduction of ores. Two claims, numbered 1 and 2, accompanied the application. These seem to have become, by amendment, claims 13 and 14, are the only claims in the case, and are as follows:

13. A process for reducing ores which comprises heating said ores to a reducing temperature and upon reaching said temperature injecting into the body of ore an undecomposed hydrocarbon, thereby producing nascent carbon.

14. A process for reducing ores which comprises heating said ores to a reducing temperature and upon reaching said temperature injecting into the body of ore an undecomposed liquid hydrocarbon, thereby producing nascent carbon.

The Examiner rejected the claims by reference to Alford, 1,097,156, of May 19, 1914, or Jones, 1,319,589, of October 21, 1919. The Board of Appeals affirmed this decision on October 31, 1928. On December 10, 1928, the applicant made his motion for a rehearing, and in support thereof filed an elaborate brief and argument and in addition thereo, the affidavit of John R. Cain, a metallurgist and chemist of note and distinction, having thirty years of active experience, fifteen of which were spent as research chemist and metallurgist with the Bureau of Standards at Washington, D. C.

On consideration of this motion and affidavit, the Examiner adhered to his original position, which decision was again affirmed by the Board of Appeals.

The applicant's process is roughly outlined in his claim, namely, he proposes to heat the ores which are to be reduced to a reducing temperature and, when they arrive at the precise temperature when reduction will occur, to inject into them a hydrocarbon, either solid or liquid. He claims that because of this addition of hydrocarbons at this particular temperature, the carbon will be freed from the hydrocarbons at the exact moment the oxygen is set free from the ores; that the carbon, being nascent, as the applicant terms it, will be more active than if it had been previously separated and had been deposited upon the ores in a solid form. He claims by this process reduction is speedier and can be accomplished at lower temperatures than by the methods heretofore known to the art. The generally accepted former method, as he represents, of reducing ores, was to mix a charge of ores and some solid hydrocarbon, usually coke, in a furnace and subject them to heat to such a degree that reduction was finally effected. In this process, however, no attempt was made to insert the hydrocarbons at any particular period of the process. Both ores and hydrocarbons accompanied each other throughout the process.

In describing his process, appellant specifies that the reduction should take place in a chamber or cylinder from which air is excluded, the ores to be fed into the top and passed gradually downward by a system of baffles or intermittent movement by which the ores are kept in constant agitation. He illustrates his process by taking for example iron oxide ore. This he first crushes to approximately ¼ inch mesh and passes it through a hopper down through baffles in a brick tower. The bottom of the tower is heated by a flame of gas, oil or coal. The heat from this flame becomes less intense as the distance up the tower away from the flame increases. As the ores are passed down through the tower, which occurs in a certain fixed time, they gradually arrive at the reducing temperature. At this point, an injection of hydrocarbon, or hydrocarbon containing body, is thrown into the ores. The hydrocarbon at once decomposes, the carbon unites with the oxygen in the ores, and the reduced material is, to prevent reoxidation, at once drawn from the tower into a cooling cylinder before coming in contact with the flame.. The applicant states that this process is so efficacious, that he has been able to reduce magnetite ore, the normal reduction temperature of which is 1100° C., at a temperature of about 950° C.

It seems to be conceded by both the applicant and the Patent Office that the process involved herein is more particularly directed to the reduction of iron ores, especially oxides. We shall therefore treat the matter from this viewpoint.

The whole matter depends upon whether Alford and Jones, the references, anticipate appellant's process. We shall first examine the Alford reference.

Alford manifestly has in mind the use of either solid or liquid hydrocarbons as reducing reagents, and his underlying theory seems to be that in his process an excess of carbon should be added to prevent reoxidation.

CARNEGIE LIBRARY OF ATLANTA

Alford proposes to carry on his process by means of an apparatus briefly described as follows: He provides a furnace and firebox fed with fuel from above. The ore is heated and finally reduced in two rotatable tubes extending longitudinally, one above the other, through the two compartments of the furnace. The upper tube is described as an ore heating tube and the lower one as a reduction tube. Ore is fed into one end of the upper tube, propelled through it by an Archimedean screw, and is discharged from the other end into a chute, from which it passes into the end of the lower reduction tube, through which it is likewise propelled by a similar screw. As the ore passes through the chute, powdered or crushed coal or carbon is added to it, which has been fed down an inclined tube, which tube leads from the outside, through the spent gases above the heating stove.

Alford's specifications recite, on this point: "said ore being advanced through the tube until it is discharged in a properly heated condition into a chute 22 which in turn discharges *the ore* (*mixed with carbon*) into the intake end of the reduction tube 15." (Italics are ours.) Again he says: "It follows from the foregoing that the heated ore and reduction carbon are jointly fed into the reduction tube 15 where they are intimately mixed by the screw *a*." Reduction is said to occur in the lower tube and the metal is drawn from the lower end of a Y at the end, the gases escaping from the upper end thereof.

Alford states that his temperature in his reduction tube 15 will approximate 1100° F., while the temperature in his upper ore heating tube is 1300° F., and in the carbon tube about 800° F. He states that while the temperature in the upper heating tube may be 1300° F., it "must never reach the temperature of fusion." The gist of his invention is stated in his sixth claim, which is as follows:

6. In the reduction of oxid ores, the process of externally heating a charge of ore in a finely divided state while under agitation in a container, to a temperature below the point of fusion, conducting said heated ore to a container in conjunction with a proper complement of powdered hydrocarbon fuel without access of air to furnish carbon in excess of that necessary to effect reduction, agitating and externally heating the mixed charge in said container and maintaining the same at a temperature approximating 1000 degrees Fahrenheit, whereby the oxid is reduced to the metallic state with production of mixed gas in the presence of such carbon excess as a result of the reaction.

The Patent Office contends this Alford process is identical with that of the appellant. We are unable to see it that way.

Alford expressly states, repeatedly, that he mixes his reducing carbon or hydrocarbon with his ores when the ores are *below the reduction temperature.* The appellant's entire process centers about the theory of the admixture of the reducing hydrocarbon *at the reducing temperature.*

A great deal has been said, in argument, about the various temperatures which Alford's process creates and their reducing effect on ores generally. Comment is also made by appellant upon the alleged fact that Alford's reduction tube, being of metal, will itself be reduced at the reducing temperature of its contents. With these questions of operativeness we are not now concerned. It is sufficient to note that there is an essential difference in the processes of appellant and Alford and that Alford's disclosure does not read on appellant's rejected claims. The Examiner, we think, falls into error in stating that Alford gives 1000° F. as the reducing temperature. What Alford states is that "no reduction of iron can take place under 1000 degrees," which is a much different proposition.

The Examiner states that "the functional, limitation 'thereby producing nascent carbon,' per se, is, clearly, of no patentable significance." Doctor Cain, whose knowledge of the subject is extensive and thorough, states in his affidavit that this production of nascent carbon at the very moment of reduction has great metallurgical significance. His reasons for this view are as follows:

Coley's reducing agent is an active form of carbon which is generated in immediate contact with the ore to be reduced by reason of the cracking of the oil, coal or other suitable hydrocarbon which he injects into or onto the ore that has previously been heated to 950 to 1000° C.; the cracking of the hydrocarbon is effected mainly by the high temperature he uses. Coley claims that this form of carbon is highly efficient in reduction operations, and I believe this to be so, for it is evident that he accomplishes at least three things highly favorable to a quick and effective reduction: (a) He obtains the very finely divided, flocculent form of carbon that results from suitably cracking or decomposing hydrocarbons; (b) he deposits this carbon upon and between the ore particles, or liberates it in such fashion that there is the intimate contact necessary for reduction; (c) he has his ore at a very high temperature favorable for immediate reduction by the active carbon.

It will be observed that Doctor Cain refers to the reducing temperature in Coley's process as from 950 to 1000° (Coley's specifications state 1100°) C., or the equivalent of 1742 to 1832° F. Certainly, Alford indicates no such temperatures in his process. Cain also sets out quite clearly that the powdered coal or carbon used in Alford's process reaches a temperature of 800° F. before it enters the mass of ore and that, doubtless, at least partial carbonization thereof would occur before the ores reached a reduction temperature. In support of his propositions he cites various authorities, which, on examination, seem to indicate the correctness of his theories. Greenwood's experiments described in Transactions of the Chemical Society (London) for 1928, p. 1490; Bureau of Mines Technical Paper 396, by A. C. Fieldner, entitled "Low temperature carbonization of coal;" Bureau of Mines Bulletin No. 1, Table 20.

We are of opinion the Alford reference is not a sufficient reference for the rejection of appellant's claims.

The Jones reference discloses a method of reducing iron from ores. This Jones proposes to do by the use of a natural gas, or a hydrocarbon gas of similar composition, as a "reducing, carbonizing and cooling agent." Jones employs a vertical furnace surrounding a central stack, in which reduction is to take place. Heat is applied from the sides, at the base of the furnace, to the exterior of the central stack. This stack extends below the base of the furnace a considerable distance, giving the material in the base of the furnace an opportunity to cool somewhat before the products of re-

duction are drawn off. Jones thus describes his furnace:

The operation of the furnace and the processes involved are divisible into three zones or stages in which the several reactions are going on continuously and contemporaneously. The first zone or stage "C" is in the interior stack 4 from the top of the furnace down to the point of highest temperature opposite the gas or oil burners 10.

The second zone or stage "D" is the upper part of the cooling section of the interior stack, just below zone "C", in which the reduced iron from zone "C" is carburized.

The third zone or stage "E" is the final cooling zone before removal of the iron for refining to steel.

The natural or other gas used in the reduction is injected through pipes into zones D and E. These gases pass upward through the mass of hot ore or metal. What happens is thus described by Jones:

The first stage comprises heating to the temperature necessary for reduction of the contained metal, the column of broken iron ore in the interior stack 4 * * *

The second stage takes place in the upper part of the cooling section of furnace 7, during which the reduced ore from the first stage, passing downwardly through the furnace, cools from the temperature of reduction down to about 150 degrees centigrade and in the course of which cooling carburization of the reduced iron sponge takes place by reason of the well known property of natural gas of depositing carbon when highly heated.

The reduced ore from the first stage is in the form of a more or less porous iron sponge as it enters the cooling portion 7 of the furnace and in an ideal condition for receiving and combining with the deposited carbon when the equilibrium temperature is reached in the cooling of the sponge at which carbon will be deposited from the gas and be retained by the iron sponge, thereby altering it to a more fusible compound of iron and carbon and less easily oxidized than pure sponge.

A further correlated reaction due to the deposition of carbon from the natural gas in stage two, and of an intensifying reducing effect in the first stage, is the enrichment of the reducing gas by reason of the greater proportion of hydrogen in it due to the removal of a portion of the carbon of the original natural gas in carburizing the iron sponge.

* * * * * * *

The final or third stage, before drawing the reduced carburized product, is a further cooling of it from contact with the column of gas entering at 11, which gas is always supplied under pressure at ordinary temperatures.

* * * * * * * *

I claim:

1. A zonal process of reducing iron ore by means of natural gas, or a hydrocarbon gas of similar composition, comprising heating a descending column of broken ore, under the exclusion of air, to the temperature necessary for reduction of the contained metal and less than fusing, passing the column of ore, under the exclusion of air, through this heating and reducing zone in intimate contact with an ascending column of natural gas, or other gaseous hydrocarbon of similar composition, thereby reducing the iron wholly or in part to the metallic state by the action of the gas in this zone; continuing passing the descending column of reduced or partly reduced iron, under the exclusion of air, into and through a lower cooling and carburizing zone, in intimate contact with the ascending column of natural or other hydrocarbon gas, passing the descending column of reduced and carburized iron through the final cooling zone in the ascending column of gas, and delivering the product from the furnace without allowing air to enter the furnace.

Much difficulty is experienced in attempting to understand Jones' process, as thus set forth. He injects a hydrocarbon gas which must pass first through a zone where the ores are reduced, to cool them, then through a zone where the temperature is at the proper stage to decarburize the gases and carburize the iron, and finally into a zone of reduction, where it must deoxidize the ores by yielding up carbon. It is difficult for a layman to understand just how these gases can retain their carbon and carry it to the reduction stage of the process. The apparent purpose of the processes of appellant and Alford seem to be to obtain "sponge iron." Jones, however, gets as his ultimate product "carburized iron."

Doctor Cain discusses the Jones process in the light of the result of certain experiments conducted by the Bureau of Standards and described in "Chemical and Metallurgical Engineering," vol. 28, April 30, 1923, "Production of hydrogen by the thermal decomposition of oil," and Giolitti in his book "Cementation of Iron and Steel," by McGrew Hill Co., New York, 1916, page 78, as well as Bureau of Mines Technical Paper 418, "Electric furnace cast iron," p. 29. From these authorities, and from his own experience, he deduces these conclusions:

Summarizing as to Jones, it is believed that his process is of doubtful operability because; 1. He cannot reduce iron ore with methane at any practicable speed at the temperature he specifies; 2. He cannot get the carburizing action claimed at Zone D at the temperature prevailing there; 3. He cannot get the "intensifying reducing effect" he claims because of supposed decomposition of methane at Zone D.

It is quite obvious that in the Jones process the reducing hydrocarbon is not injected into the ores at the moment they arrive at a reduction temperature. On the contrary, the methane, or natural gas, used, performs other functions and is subjected to other forces, the exact reaction of which is uncertain, before it reaches the ores at their reduction point, if, in fact, it reaches them there at all.

We are inclined to think the Patent Office should have granted this patent. To our minds, unskilled in this art, the Jones and Alford processes, as disclosed in their patents, differ essentially from appellant's process. The experts differ in their views of the matter. Doctor Cain is quite positive the processes are not identical and he seems to be supported by respectable authority. On the other hand, the experts of the Patent Office assert they are identical. Where there is such doubt, the scales should be inclined toward the applicant. *In re Huff*, 48 App. D. C. 258, 259 O. G. 386; *In re Champeau*, 17 C. C. P. A. —, 34 F.(2d) 1012, 388 O. G. 783; *In re Uddenborg*, 17 C. C. P. A. —, 39 F.(2d) 710, 397 O. G. 166; *In re Williams*, 17 C. C. P. A. —, 36 F.(2d) 436, 392 O. G. 737.

The solicitor for the Patent Office cites, as an additional reference in his brief filed in this court, the patent to Rendall, No. 721,092, Feb. 17, 1903. He contends this patent is a full and complete anticipation of appellant's application, even if the Alford and Jones patents are not. The Rendall patent was not referred to in the Patent Office during the hearing on this application, either by the Examiner or the Board, and its attempted citation here is some indication that there is some doubt in the solicitor's mind as to whether the Jones and Alford references are sufficient justification for rejection of this application. The appellant vigorously insists we should not consider the same here.

The statute under which these appeals are heard by us (sections 4913 and 4914 R. S.) provide, in part:

SEC. 4913. * * * The party appealing shall lay before the court certified copies of all the original papers and evidence in the case, and the Commissioner shall furnish the court with the grounds of his decision, fully set forth in writing, touching all the points involved by the reasons of appeal.

SEC. 4914. The court, on petition, shall hear and determine such appeal, and revise the decision appealed from in a summary way, on the evidence produced before the Commissioner, at such early and convenient time as the court may appoint; and the revision shall be confined to the points set forth in the reasons of appeal. * * *

The rules of the Court of Appeals of the District of Columbia heretofore adopted, so far as applicable, by this court, provide, (Rule XXII) that the Patent Office shall certify all papers and evidence in the matter to this court and that these, with the petition for appeal, shall constitute the record to be considered by the court. This has been done in the case at bar, and no reference to the Rendall patent appears therein.

It is urged that the court may take judicial notice of the Rendall patent. Whether we may or may not do so, is a matter, in our judgment, not necessary for our consideration. It is quite certain that if we were to here consider reference patents for the first time, we should speedily find ourselves usurping the functions of the Patent Office. The appellant has the right to have the decision of the tribunals of the Patent Office upon the Rendall reference, if it is to be cited against him. If rejected by the office upon that reference, he might amend under section 4903 R. S. and possibly avoid the reference, something which he may not do in this court. The rules of orderly practice and reason both require that we should not consider for the first time, on appeal, references cited against an application. In re Gillam, 17 C. C. P. A. —, 37 F.(2d) 959, 395 O. G. 1135.

The order will be, therefore, that the decision of the Board of Appeals is reversed, and patent will issue on both claims in issue.

Reversed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

764,916. (See 1,033,988.) 768,717. (See 1,033,988.)
781,871. (See 1,033,988.) 799,829. (See 1,033,988.)
799,830. (See 1,033,988.) 807,010. (See 1,033,988.)
833,506. (See 1,033,988.) 840,042. (See 1,033,988.)
840,110. (See 1,033,988.) 870,866. (See 1,033,988.)
900,354. (See 1,033,988.)

1,033,988, H. L. Coburn, Reenforced-concrete dam; 840,110, same, Dam; 900,354, same, Bridge dam; Re. 12,426, N. F. Ambursen, Dam; 807,010, same, Waste gate for dams; 764,916, W. L. Church, Concrete dam; 799,829, 833,506, 840,042, same, Dam; 799,830, same, Waterworks dam; 870,866, same, Method of building dams; 768,717, Ambursen and Church, Shell dam; 781,871, same, Dam and method of closing or completing same. Filed July 21, 1906, D. C., W. D Mich. (Grand Rapids), Doc. E 2066, *Ambursen Construction Co., Inc.*, v. *Village of Portland, Mich.* Dismissed by stipulation Aug. 1, 1930.

1,077,856, E. R. Ray, Pneumatic feed and return rock drill, D. C., S. D. Calif. (Los Angeles), Doc. 4051–C, *Ray* v. *Cochise Rock Drill Mfg. Co.* Dismissed Aug. 8, 1930.

1,089,405, W. S. Ferguson, Reinforced-concrete dock or pier, D. C., E. D. Mich., S. Div., Doc. 3049, *The Dock & Terminal Engineering Co. et al.* v. *Parker Bros. Co., Ltd.* Dismissed Sept. 23. 1930.

1,092,870, Spillman and Mooers, Piston for explosion engines or motors; 1,402,309, L. P. Mooers, Piston for internal-combustion motors; 1,153,902. G. E. Franquist, Piston; 1,655,968, H. E. Maynard, same; 1,763,523, F. Jardine, same; 1,256,265, V. E. Schmiedekneckt, same; Re. 16,273, R. M. Howdeshell, Piston for engine cylinders, filed Sept. 29, 1930, D. C., N. D. Ohio, E. Div., Doc. 3510, *The Cleveland Trust Co. et al.* v. *The Simmons Mfg. Co. et al.*

1,108,184, T. Kerner, Garbage or refuse incinerator, D. C., E. D. Mich., S. Div., Doc. 2033, *Kerner Incinerator Co.* v. *R. T. Lee et al.* Dismissed without prejudice Sept. 23, 1930. Doc. 2032, *Kerner Incinerator Co.* v. *A. Woronow et al.* Dismissed Sept. 29, 1930.

1,125,476, G. Claude, System of illuminating by luminescent tubes, D. C., N. D. Calif. (San Francisco), Doc. 2376–K, *Claude Neon Electrical Products, Inc.*, v. *Wonderlite Co. of America.* Dismissed for want of prosecution Aug. 11, 1930.

1,127,733, V. Clairemont, Preserving eggs; 1,224,710, 1,369,323, same, Apparatus for treating eggs; 1,370,628, same, Process of and apparatus for preserving eggs; 1,599,553, same, Grading and candling machine, D. C., N. D. Calif. (San Francisco), Doc. 2373–S, *Kasser Egg Process Co.* v. *Poultry Producers of Central California.* Dismissed for want of prosecution Aug. 11, 1930.

1,132,186, E. W. Kelley, Traffic-signaling system, appeal filed Oct. 2, 1930, C. C. A., 2d Cir., Doc. 11118, *E. W. Kelley et al.* v. *The City of Syracuse et al.*

1,153,902. (See 1,092,870.)

1,184,673, C. C. Fardon, Storage tank, appeal filed Sept. 22, 1930, C. C. A., 10th Cir., Doc. 360, *Johns Manville Corp.* v. *National Tank Seal Co.*

1,197,166. (See 1,428,762.)

1,221,030, H. D. Currier, Telephone system; 1,283,400, same, Trunk circuit; 1,261,492, H. D. Currier et al. Telephone system; 1,594,877, Currier and Eaton, same; 1,556,761, same, Trunk circuit, filed Sept. 30, 1930, D. C., E. D. Mich., S. Div., Doc. 4460, *Kellogg Switchboard & Supply Co.* v. *Michigan Bell Telephone Co. et al.*

1,224,253, R. R. Wiley et al., Illuminated sign, filed July 10, 1930, D. C., N. D. Ill., E. Div., Doc. 9917, *Flexlume Corp.* v. *G. W. Hedges et al.*

1,224,710. (See 1,127,733.) 1,256,265. (See 1,092,870.)

1,261,492. (See 1,221,030.) 1,283,400. (See 1,221,030.)

1,294,731, H. A. Wallace, Railway signaling, filed July 14, 1930, D. C., N. D. Ill., E. Div., Doc. 9934, *Union Switch & Signal Co.* v. *The Railroad Supply Co.*

1,296,588, 1,296,590, J. H. Bamberg, Metal mold; 1,296,589, same, Castings and process of making same; 1,296,591, same, Piston casting; 1,296,594, A. B. Norton, Mold; 1,296,595, same, Process of making castings; 1,679,870, Norton and Guyot, Method of and mold for making castings; filed Sept. 29, 1930, D. C., N. D. Calif. (San Francisco), Doc. 2694–K, *Aluminum Co. of America* v. *United Engine & Machine Co.*

1,296,589. (See 1,296,588.) 1,296,590. (See 1,296,588.)

1,296,591. (See 1,296,588.) 1,296,594. (See 1,296,588.)

1,296,595. (See 1,296,588.) 1,307,733. (See Re. 14,667.)

1,307,733, A. V. Gullborg, Lubricating apparatus; 1,307,734, same, Lubricating means, D. C. Kans. (Topeka), Doc. 1261–N, *The Alemite Mfg. Corp.* v. *G. P. Beaston.* Dismissed Sept. 27, 1930. Same, D. C., S. D. Calif. (Los Angeles), Doc. E O–115–M, *The Alemite Mfg. Corp.* v. *V. Morris (Federal Auto Supply Co.).* Decree for plaintiff Dec. 20, 1929.

1,307,734. (See 1,307,733.) 1,316,477. (See 1,428,762.)

1,358,182. (See 1,428,762.) 1,369,323. (See 1,127,733.)

1,370,628. (See 1,127,733.)

1,396,070, Shoup and Oliver, Paper-feed device for autographic registers, filed Sept. 23, 1930, D. C., N. D. Calif. (San Francisco), Doc. 2691–L, *Autographic Register Co.* v. *Pacific Manifolding Book Co.*

1,402,309. (See 1,092,870.)

1,428,762, 1,316,477, H. D. Currier, Telephone system; 1,438,170, same, Telephone system with flickering recall; 1,566,622, W. G. Shull, Telephone system; 1,197,166, C. S. Winston, Universal cord circuit for telephone systems; 1,358,182, C. Sparks, Trunk circuit, filed Sept. 30, 1930, D. C., E. D. Mich., S. Div., Doc. 4459, *Kellogg Switchboard & Supply Co.* v. *Michigan Bell Telephone Co. et al.* Same, filed Oct. 1, 1930, D. C., W. D. N. Y., Doc. 351, *Kellogg Switchboard & Supply Co.* v. *New York Telephone Co. et al.*

1,438,170. (See 1,428,762.)

1,464,338, R. L. Puccinelli, Dehydrator, filed Sept. 30, 1930, D. C., N. D. Calif. (San Francisco), Doc. 2695–L, *Chapman Dehydrator Co.* v. *N. Zarevich.*

1,470,524. (See 1,505,592.)

1,475,424, G. B. Bosco, Form clamp, filed Aug. 6, 1930, D. C., N. D. Ill., E. Div., Doc. 9984, *G. B. Bosco* v. *Universal Form Clamp Co. et al.*

1,475,980. (See Re. 14,667.)

1,505,592, F. W. Epperson, Frozen confection; 1,470,524, H. B. Burt, Process of making frozen confections; 1,718,997, same, Frozen confection, D. C., S. D. Calif. (Los Angeles), Doc. C–109–C, *National Popsicle Corp. et al.* v. *A. F. Krueger.* Patents held valid May 27, 1930. Same, filed Sept. 8, 1930, D. C., S. D. Calif. (Los Angeles), Doc. S–28–C, *National Popsicle Corp. et al.* v. *A. Libby.*

1,525,662, Schwartz and Whiteside, Hickey and method of making, filed Sept. 26, 1930, D. C., S. D. N. Y., Doc. E 55/317, *M. S. W. Mfg. Co., Inc.*, v. *New York Brass Turning Co.*

1,534,478, W. J. Wiswall, Manifolding book, filed Aug. 30,1930, D. C., N. D. Ill., E. Div., Doc. 9998, *American Sales Book Co., Ltd.*, v. *W. R. Petersen.*

1,541,565, R. B. Hainsworth, Wheel puller, filed Aug. 20, 1930, D. C., N. D. Ill., E. Div., Doc. 9992, *R. B. Hainsworth* v. *N. Hecktman et al.*

1,551,515, W. K. Howe, Automatic train-control system, C. C. A., 8th Cir., (St. Louis), Doc. 8087, *General Rwy. Signal Co.* v. *Great Northern Rwy. Co.* Decree reversed Sept. 26, 1930.

1,556,761. (See 1,221,030.)

1,558,091, C. E. Johnson, Piston ring, filed Oct. 2, 1930, D. C., E. D. Mich., S. Div., Doc. 4461, *The Piston Ring Co.* v. *J. Magee.*

1,558,644, T. L. Smith, jr., Scale; 1,598,620, Rhodes and Hochriem, Coin-controlled gravity-operated ticket printing and delivering scale; 1,622,571, A. A. Caille, Weighing scale, appeal filed Aug. 14, 1930, C. C. A., 3d Cir., Doc. 4481, *International Ticket Scale Corp.* v. *Rhodes-Hochriem Mfg. Co.*

1,559,520, T. M. Fairbairn, Putting green and similar playing surface, filed July 17, 1930, D. C., N. D. Ill., E. Div., Doc. 9937, *National Pipe Products Corp. et al* v. *W. M. Einhorn.*

1,566,622. (See 1,428,762.) 1,594,877. (See 1,221,030.)

1,598,620. (See 1,558,644.) 1,599,533. (See 1,127,733.)

1,618,124, L. A. Foote, System of accrual accounting, D. C., N. D. Calif. (San Francisco), Doc. 2272–K, *The Foote Adap-Table Systems Co. et al.* v. *Brotherhood National Bank.* Dismissed for want of prosecution Aug. 11, 1930.

1,622,571. (See 1,558,644.)

1,636,416, L. G. Handy, Track for toy electric trains, filed June 4, 1928, D. C., S. D. N. Y., Doc. E 45/245, *L. G. Handy et al.* v. *American Flyer Mfg. Co.*

1,652,561, A. O. Dady, Ironing machine; 1,762,605, Anderson and Janda, Table structure, filed July 26, 1930, D. C., N. D. Ill., E. Div., Doc. 9969, *Conlon Corp.* v. *Graybar Electric Co., Inc.*

1,655,968. (See 1,092,870.)

1,666,589, C. W. Bassett, Elevator-signal system, filed Sept. 30, 1930, D. C., S. D. N. Y., Doc. E 55/355, *Elevator Supplies Co., Inc.*, v. *Wagner Mfg. Co.*

1,669,640, B. C. Warlick, Indoor golf, filed Oct. 2, 1930, D. C., S. D. N. Y., Doc. E 55/390, *B. C. Warlick et al.* v. *T. Speed.*

1,678,436, P. Kinnear, Ice-cream holder, filed July 29, 1930, D. C., N. D. Ill., E. Div., Doc. 9970, *P. Kinnear* v. *Chocolate Products Co.*

1,679,870. (See 1,296,588.)

1,699,971, T. W. Johnson, Brief case or bag, filed Aug. 19, 1930, D. C., N. D. Ill., E. Div., Doc. 9991, *F. B. Johnson* v. *National Brief Case Mfg. Co.*

1,718,997. (See 1,505,592.)

1,731,967, L. J. Antonsen, Paper excelsior machine, filed Sept. 22, 1930, D. C., N. D. Calif. (San Francisco), Doc. 2689–S, *L. J. Antonsen* v. *J. Scherman (Western Paper Stock Co.).*

1,758,852, L. C. Rosenblatt, Rear yoke for dresses, filed Sept. 30, 1930, D. C., S. D. N. Y., Doc. E 55/354, *L. C. Rosenblatt Corp.* v. *J. Liss Dress Corp. et al.*

1,760,674, P. Von Frantzius, Pistol, filed July 2, 1930, D. C., N. D. Ill., E. Div., Doc. 9912, *P. Von Frantzius* v. *S. M. Abbott et al.*

1,762,605. (See 1,652,561.) 1,763,523. (See 1,092,870.)

Re. 12,246. (See 1,033,988.)

Re. 14,667, F. D. Winkley, Lubricating system; 1,307,733, A. V. Gullborg, Lubricating apparatus; 1,475,980, O. Zerk, same, D. C., E. D. Mich., S. Div., Doc. 2068, *The Bassick Mfg. Co.* v. *Michigan Automotive Supply Co.* Dismissed without prejudice Sept. 23, 1930.

Re. 15,115, E. D. Mackintosh, Method of driving electric centrifugal machines, appeal filed Mar. 19, 1930, C. C. A., 3d Cir., Doc. 4387, *Penick & Ford, Ltd., et al.* v. *S. S. Hepworth Co. et al.*

Re. 16,273. (See 1,092,870.)

Des. 74,239, M. J. Palm, jr., Plate or similar article, D. C., E. D. Mich., S. Div., Doc. 3550, *The Palm Bros. Decalcomania Co.* v. *Mt. Clemens Pottery Co.* Dismissed Sept 29, 1930.

T. M. 18,734, G. F. Gilman, Breakfast coffee; T. M. 259,085, T. M. 228,894, The Great Atlantic & Pacific Tea Co., Coffee, filed July 11, 1930, D. C., N. D. Ill., E. Div. Doc. 9919, *The Great Atlantic & Pacific Tea Co.* v. *E. B. Millar & Co.*

T. M. 228,894. (See T. M. 18,734.)

T. M. 259,085. (See T. M. 18,734.)

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,675,894, C. D. Lindridge, Method and apparatus for recording and reproducing sound, decided October 21, 1930, claims 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, and 17.

Pat. 1,685,932, W. B. Andersson, Hydraulic gate and check valve, decided November 15, 1930, claim 1.

Pat. 1,696,341, J. M. Blanchard, Shipping box, decided November 13, 1930, claims 1, 2, 3, 5, 8, 9, 10, and 11.

Pat. 1,698,043, F. C. Wise and W. Greenwood, Smoker's petrol lighter, decided October 14, 1930, claims 1 and 2.

Pat. 1,708,360, H. A. Douglas, Control means, decided October 17, 1930, claims 1, 3, 5, 6, 7, 8, 9, and 10.

Pat. 1,759,635, K. B. Thews and J. S. Carlitz, Treatment of iron or steel, decided November 6, 1930, claims 2 and 7.

TRADE-MARKS

OFFICIAL GAZETTE, DECEMBER 2, 1930

[VOL. 401. No. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 286,357. MCNEELY COMPANY, Philadelphia, Pa. Filed June 29, 1929.



For Glazed Kid Manufactured from Goatskins.
Claims use since June 1, 1928.

Ser. No. 302,691. PENNRICH & COMPANY, INC., New York, N. Y. Filed June 21, 1930.

P E C O
STANDARD

No claim is made to the exclusive use of the word "Standard" apart from the mark as shown on the drawing.
For Peat-Moss Products.
Claims use since October, 1929.

Ser. No. 305,427. WHITNEY-ECKSTEIN SEED CO., Buffalo, N. Y. Filed Sept. 6, 1930.

EUREKA

For Clover Seeds, Grass Seeds, and Mixtures Thereof.
Claims use since Nov. 1, 1901.

Ser. No. 306,555. BROWN COMPANY, Portland, Me., and Berlin, N. H. Filed Oct. 9, 1930.

DURACEL

For Cellulose Pulps.
Claims use since Apr. 25, 1929.

Ser. No. 307,027. THE AMERICAN FLURESIT COMPANY, Cincinnati, Ohio. Filed Oct. 22, 1930.

Duromit

For Mined Raw Material Classified as Quartz Sand.
Claims use since Jan. 1, 1930.

CLASS 2

Receptacles

Ser. No. 301,915. R. B. HAYWARD COMPANY, Chicago, Ill. Filed May 31, 1930.



The drawing is lined for red. The head shown on the drawing is fanciful and not that of a living person. No claim is made to the word "Reels" except in the association shown.
For Wire and Cable Reels.
Claims use since Jan. 10, 1929.

CLASS 3

Baggage, Animal Equipments, Portfolios, and Pocketbooks

Ser. No. 298,797. THE DAYTON COMPANY, Minneapolis, Minn. Filed Apr. 14, 1930.

BANCO

For Luggage—Namely, Men's Gladstone Bags, Men's Satchels, Women's Dress Cases, Women's Gladstone Bags, Women's Hatboxes, Women's Overnight Cases, Women's Fitted Cases, Men's Fitted Cases, Hand Trunks, Wardrobe Trunks, Steamer Trunks, Boston Bags, Overnite Bags, Brief Cases, Catalogue Cases, Toilet Cases, Zipper Rolls, Men's Suitcases.

Claims use since Feb. 26, 1930.

Ser. No. 305,300. WHITE LUGGAGE CO., INC., New York, N. Y. Filed Sept. 3, 1930.

The Wonderkit

For Luggage—Namely, Suitcases, Hatboxes, Wardrobe Suitcases, Wardrobe Hatboxes, Satchels, Hand Bags, Gladstone Cases, Utensil Cases for Toilet Accessories, and Fitted Cases.

Claims use since May, 1930.

Ser. No. 306,060. FRANK R. JELLEFF, INC., Washington, D. C. Filed Sept. 25, 1930.

Success Fashions

No claim is made to the word "Fashions" apart from the mark shown in the drawing.

For Ladies' and Girls' Hand Bags and Pocketbooks.

Claims use since Sept. 19, 1930.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 298,543. METAL TEXTILE CORPORATION, West Orange, N. J. Filed Apr. 8, 1930.

CHORE GIRL

For Metallic Spongelike Abrasive Wads or Pads.

Claims use since May, 1927.

Ser. No. 301,962. MACKIE PINE OIL SPECIALTY COMPANY, Covington, La. Filed May 31, 1930.



No claim is made in this application to the wording except the word "Pinexo," appearing on the drawing, apart from the association shown.

For Cleaning Preparation for General Use Having Incidental Deordorizing Properties.

Claims use since Jan. 31, 1928.

Ser. No. 301,963. MACKIE PINE OIL SPECIALTY CO., Covington, La. Filed May 31, 1930.



No claim is made in this application to the wording in the drawing except the word "Mackie's", apart from the association shown.

For General Household Cleaning Preparation for Home, School, Theatre, Hotel, Bank, Restaurant, Office Building, Depots, Workshops, Railroad cars, Stores, Laundries, Camps, Boats, Dairies, and Kennels Having Incidental Deodorizing Properties.

Claims use since May 30, 1928.

Ser. No. 304,485. BERT E. BRESEE, doing business as Beb Cleanser Company, Oneonta, N. Y. Filed Aug. 12, 1930.

Bebona

For Dry-Cleaning Fluid for Rugs, Carpets, Footwear, Gloves, Felt Hats, Furs, Men's and Women's Clothing, House Furnishings, Auto Upholstery, etc.

Claims use since June 4, 1930.

Ser. No. 304,988. AROMA INCORPORATED, Detroit, Mich. Filed Aug. 25, 1930.



The words "Aroma Washing Fluid for All Laundry Purposes" are disclaimed apart from the mark shown in the drawing. The shading in the drawing indicates the color green.

For Washing Fluid for Laundry Purposes Having Incidental Properties as a Bleaching Agent.

Claims use since Aug. 19, 1930.

Ser. No. 305,419. SUPERIOR CHEMICAL COMPANY, Houston, Tex. Filed Sept. 6, 1930.



The right to the exclusive use of the words "Corporation" and "Houston, Texas," is hereby disclaimed apart from the other features of the mark as shown on the drawing.

For Metal Polish, Cleaner for Toilet Bowls and Bathtubs; Floor Cleanser Such as for Linoleum, Composition Floors, and the Like; and for a General Cleansing Compound Having Incidental Deodorizing and Disinfecting Properties.

Claims use since Apr. 29, 1930.

Ser. No. 305,453. PAL PRODUCTS CO. INC., Brooklyn, N. Y. Filed. Sept. 8, 1930.

PALENE

For Soap Powder.

Claims use since Mar. 8, 1930.

Ser. No. 305,966. DAWSON-MACDONALD CO., Boston, Mass. Filed Sept. 23, 1930.

CANNONBLAST

For Natural and Artificial Abrasives for Sand Blasting Marble, Stone, and Granite and for Producing Inscription Carving, Ornamentation, and Cleaning the Same Substances.

Claims use since June 1, 1930.

Ser. No. 306,835. RICHARD C. HARRISON, doing business as Harrison and Company, Haverhill, Mass. Filed Oct. 2, 1930.

4A

For Cleaner for Automobiles, as Well as for Duco, Enameled, or Lacquered Surfaces.

Claims use since Apr. 29, 1930.

Ser. No. 306,377. VAL COMPANY, Medford, Mass. Filed Oct. 3, 1930.

VAL

For Dry Cleanser.

Claims use since Mar. 1, 1930.

Ser. No. 306,471. STANISLAUS M. WESOLOWSKI, doing business as Stanley Chemical Co., Detroit, Mich. Filed Oct. 6, 1930.



For General Household Cleaning Preparation for Fabrics, Porcelain, Woodwork, and the Like, Said Preparation Having Incidental Bleaching Properties.

Claims use since July 25, 1930.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 291,125. WILLIAM W. HOBE, doing business as Hobe Cie., New York, N. Y. Filed Oct. 16, 1929.

Hobé

For Perfumes, Face Creams, Face Powders, Rouges, and Lip Sticks.
Claims use since Sept. 23, 1929.

Ser. No. 292,185. STANDARD BRANDS INCORPORATED, Dover, Del.; Cincinnati, Ohio; and New York, N. Y. Filed Nov. 8, 1929.

FLEISCHMANN'S

For Baking Powder.
Claims use since Oct. 15, 1929.

Ser. No. 296,638. ALEXANDRA DE MARKOFF, INC., New York, N. Y. Filed Feb. 28, 1930.



The drawing being lined to indicate the color garnet and the signature being that of Alexandra de Markoff, deceased, and no claim being made to the exclusive use of the representation of the container per se.
For Cosmetics—Namely, Skin Tonics, Cold Cream, Astringents, and Perfumes.
Claims use since Jan. 17, 1930.

Ser. No. 297,951. BERZOL CORPORATION, Long Island, N. Y. Filed Mar. 27, 1930.



The lining shown in the drawing represents color—to wit, red letters and a black partial background. However, no claim is made to the particular colors shown, but rather to the word and/or mark shown.
For Fuel Catalysts—i. e., a Substance to be Added to Fuel Oils or Volatile Oils, Such as Gasoline or the Like, to Increase Their Efficiency.
Claims use since July 1, 1929.

Ser. No. 300,593. P. E. WALKER, doing business as P. E. Walker & Co., Holbrook, Oreg. Filed May 15, 1930.



Applicant disclaims all printed matter appearing on the drawing apart from the mark as shown.
For Insecticides and Fungicides Used in the Treatment of Damping Off of Plants.
Claims use since February, 1927.

Ser. No. 302,579. HOUSEHOLD UTILITIES CO., Chicago, Ill. Filed June 19, 1930.

BURSELLE

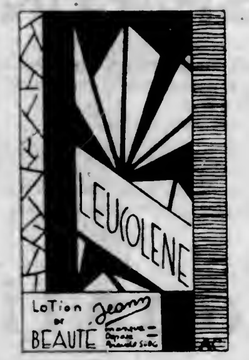
For Use on Toilet Preparations—Namely, Cold Cream, Vanishing Cream, Face Powders, Talcum Powders, Skin Lotion, Perfume, Toilet Water, Finger-nail Polish, Liquid Cuticle Remover, Brilliantine, Shampoo, and Bath Salts.
Claims use since September, 1928.

Ser. No. 303,438. DAGMAR M. HAIR, doing business as Mi King Chemical Co., Denver, Colo. Filed July 12, 1930.

Mi King

For Carbol Fuchsin; Toilet Products—Namely, Vanishing Cream, Tissue Builder, Cleansing Cream, Cold Cream, and Hand Lotion; Tablets—Namely, Acetanilid Compound, Acetylsalicylic-Acid Compound, Antacid Compound, Aphrodisiac Compound; Capsules—Namely, Headache, Influenza Intestinal Antiseptic, Neuritis, Stomach and Kidney; Pills—Namely, Cathartic Compound, Cystitis Compound, Prostatic Compound, Cold Compound, Anticolitis Compound, and Insomnia Compound; Gland Products—Namely, Aphrodisiac Compound, Prostatis Compound, Emmenagogue Compound, and Glandettes; Elixirs—Namely, Digestive Compound, Bromide Compound, Salicylic-Acid Compound, and Insomnia Compound; Syrup—Namely, Compound Syrup; Suppositories—Namely, Vaginal, Rectal, and Glandular; Ointments—Namely, Hemorrhoidal, Nasal, and Eczema; Lozenges—Namely, Medicated Throat; Powders—Namely, Stomach, Nasal, and Antiseptic; Solutions—Namely, Alkaline Aromatic, Urinary Antiseptic, Eczema Solution; Extracts and Liniments for External Use in Case of Bruises, Inflammation, and Muscular Pain.
Claims use since Nov. 1, 1925.

Ser. No. 303,667. JEANNE TRARIEUX, Paris, France. Filed July 19, 1930.



For Hygienic Lotion for Massage.
Claims use since Mar. 25, 1930.

Ser. No. 303,698. THOMAS PANTAZ, New York, N. Y. Filed July 21, 1930.

Glossoft

For Hair Pomade.
Claims use since November, 1920.

Ser. No. 304,404. GREENGARD'S VANITY SHOP, Brooklyn, N. Y. Filed Aug. 9, 1930.



The female figure forming a feature of the mark is fanciful. The representation of the label is disclaimed per se.
For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, After-Shaving Lotions, Pomades, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.
Claims use since June 25, 1930.

Ser. No. 305,220. IDDA FRANCIS, doing business as Oriental Herb Remedy Company, New York, N. Y. Filed Sept. 2, 1930.

OHRCO

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, After-Shaving Lotions, Pomades, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes, Toilet Waters, and Stomach Tonic.

Claims use since October, 1927.

Ser. No. 305,361. WENSLEY S. LAWRENCE, doing business as Lawrence Laboratories, Memphis, Tenn. Filed Sept. 5, 1930.

HAIR ENHANCE
SHAMPOO

The words "Hair" and "Shampoo" appearing on the drawing are hereby disclaimed apart from the mark as shown.

For Shampoos.

Claims use since Aug. 1, 1930.

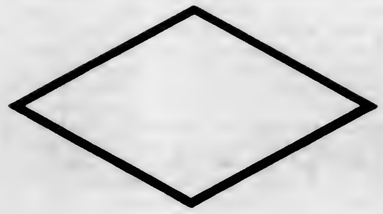
Ser. No. 305,418. SOLOMON, ARMSTRONG & CO., LTD., Kingston, Jamaica. Filed Sept. 6, 1930.



For Perfumes, Toilet Water, and Essential Oil.

Claims use since May 20, 1930.

Ser. No. 305,517. DIAMOND ALKALI COMPANY, Pittsburgh, Pa. Filed Sept. 10, 1930.



Applicant is the owner of registered Trade-Mark No. 152,151.

For Chlorine.

Claims use since Jan. 12, 1929.

Ser. No. 305,537. CLYDE E. PARK, doing business as Park Chemical Company, Ottumwa, Iowa. Filed Sept. 10, 1930.

ASPIRTINE

For Medicinal Preparation for the Treatment of Head Colds, Neuralgia Aches, Pains, Headaches, and for Use as a Throat Gargle.

Claims use since July 1, 1929.

Ser. No. 305,903. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany. Filed Sept. 20, 1930.

Bonalin

For Fuel for Pocket and Table Lighters.

Claims use since Nov. 2, 1929.

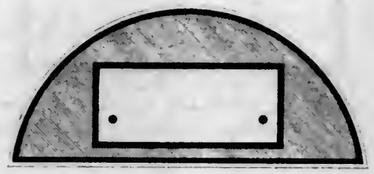
Ser. No. 305,914. JOHN W. WALTERS, doing business as Denocin Products Co., Indianapolis, Ind. Filed Sept. 20, 1930.

DENOCIN

For Analgesic Tablets and Mouth Wash.

Claims use since December, 1926.

Ser. No. 306,021. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed Sept. 24, 1930.



The lines shown on the drawing are not intended to be restrictively indicative of any particular color. Applicant is the owner of registered Trade-Mark No. 271,490.

For Baking Powder.

Claims use since Apr. 16, 1930.

Ser. No. 306,101. JOHN B. MILAM, Jr., doing business as Mi-La Company, Ruston, La. Filed Sept. 26, 1930.

MI-LA

For Cosmetic, for Instance a Cleansing Cream, Bleach Cream, Hair Oil, Hair Dressing.

Claims use since July 1, 1929.

Ser. No. 306,248. J. W. SPENCER, doing business as Hygienic Laboratories, New Orleans, La. Filed Sept. 30, 1930.

PROTECTABS

For Antiseptic, Germicidal, and Therapeutic Composition of the Type Employed for Vaginal Douching.

Claims use since Aug. 1, 1930.

Ser. No. 306,339. BONIDE CHEMICAL CO. INC., Utica, N. Y. Filed Oct. 3, 1930.

CROW-FEZ

No claim is made to the word "Crow" apart from the mark shown in the drawing.

For Preparation for Protecting Seed Against Birds and Animals.

Claims use since Sept. 28, 1928.

Ser. No. 306,379. THE WHITE TAR COMPANY OF NEW JERSEY, INC., Kearny, N. J. Filed Oct. 8, 1930.

BIM

For Insecticides.

Claims use since Aug. 20, 1930.

Ser. No. 306,433. WILLIAM H. ECKHART & SON, Hondo, Tex. Filed Oct. 6, 1930.

SSSS

For Liniment for External Use and Designed for Use by Human Beings and Animals for Treatment of Eczema, Cuts, Sores, Burns, and Rheumatic and Muscular Pains.

Claims use since Sept. 15, 1930.

Ser. No. 306,574. PRISCILLA CO., New York, N. Y. Filed Oct. 9, 1930.

Priscilla
"QUANTITIVE KEY SYSTEM"

The words "Quantitive Key System" are disclaimed apart from the mark as shown.

For Fabric Dyes.

Claims use since Sept. 15, 1930.

Ser. No. 306,579. WILLIAM D. H. SMEATON, Vincennes, Ind. Filed Oct. 9, 1930.

"IT'S GONE"

For Preparation for Treatment of Common Eye Ailments.

Claims use since Mar. 1, 1929.

Ser. No. 306,580. TENNESSEE PRODUCTS CORPORATION, Nashville, Tenn. Filed Oct. 9, 1930.

TENN-GREO

For Chemical Preparations—Namely Wood Preserves, Disinfectants, and Germicides.
Claims use since Aug. 1, 1930.

Ser. No. 306,596. CORN PRODUCTS REFINING COMPANY, New York, N. Y. Filed Oct. 10, 1930.

ARGO

For Laundry Starch.
Claims use since December, 1907.

Ser. No. 306,683. WILLIAM H. BATES, doing business as Sunray Chemical Co., Columbus, Ohio. Filed Oct. 13, 1930.

Noxburn

For Sunburn Lotion.
Claims use since August, 1930.

Ser. No. 306,684. H. TH. BÖHME A. G., Chemnitz, Germany. Filed Oct. 13, 1930.

Uniavirol

For Chemical Dye Aids—Namely, Moistening Preparations, Thread and Fibre Protecting Preparations, Thread and Fibre Penetrating Preparations, and Smoothing Preparations.
Claims use since Aug. 19, 1930.

Ser. No. 306,686. H. TH. BÖHME A. G., Chemnitz, Germany. Filed Oct. 13, 1930.

Acorit

For Chemical Dye Aids—Namely, Moistening Preparations, Thread and Fibre Protecting Preparations, Thread and Fibre Penetrating Preparations, and Smoothing Preparations.
Claims use since July 26, 1930.

Ser. No. 306,706. LES PARFUMS DE MOLYNEUX, INC., New York, N. Y. Filed Oct. 13, 1930.

VAGUE
DE
MOLYNEUX

For Perfume, Toilet Waters, Face Lotions, Lotions for Hairdressers, Bath Powders, Talc Powders, Face Powders, Lip Sticks, and Bath Salts.
Claims use since Sept. 5, 1930.

Ser. No. 306,753. TAR PRODUCTS CORPORATION, Providence, R. I. Filed Oct. 14, 1930.

HEXSPRAY

For Insecticides and Deodorants.
Claims use since May 5, 1930.

Ser. No. 306,776. SAM HAGLER, doing business as Relgah Perfumers, New York, N. Y. Filed Oct. 15, 1930.

RELGAH

For Hair Tonic, Peroxide of Hydrogen, Cold Cream, Finger-Waving Lotion, Dental Cream, Lilac Vegetal, and Bay Rum.
Claims use since January, 1924.

Ser. No. 306,898. THE NESTLE-LEMUR COMPANY, New York, N. Y. Filed Oct. 18, 1930.

SUPERSET

For Preparations for Treating Hair and for Use in Waving or Curling Hair.
Claims use since Oct. 3, 1930.

Ser. No. 306,976. JOSEPH TRINER COMPANY, Chicago, Ill. Filed Oct. 20, 1930.

Pack-Rite

For Moth Exterminator.
Claims use since June 23, 1930.

Ser. No. 307,210. MAKA LABORATORIES, Oak Park, Ill. Filed Oct. 27, 1930.



For Eye Wash.
Claims use since Sept. 1, 1930.

Ser. No. 307,212. RAMIRO MAYNES, doing business as Quirosan Laboratory, Chicago, Ill. Filed Oct. 27, 1930.

QUIROSAN

For Composition for Treating Pyorrhea.
Claims use since Aug. 18, 1930.

Ser. No. 307,234. VOIGT COMPANY, INC., St. Louis, Mo. Filed Oct. 27, 1930.

HYGEEN

For Shampoo.
Claims use since June 11, 1930.

Ser. No. 307,282. ADELAIDE ORTEGAT, NÉE ADELAIDE FERNANDEZ LESA, Paris, France. Filed Oct. 28, 1930.

VIBRATIONS

For Perfumes, Face Powders, Toilet Powders, Talcum Powders, Rouge, Lotions for the Skin and Hair, Lotions for Eyelashes and Eyebrows, Reducing Lotions, Astringents, Face Creams, Water Softeners and Purifiers, Hair Tonics, Cleansing Creams.
Claims use since July 11, 1930.

Ser. No. 307,284. ADELAIDE ORTEGAT, NÉE ADELAIDE FERNANDEZ LESA, Paris, France. Filed Oct. 28, 1930.

PINACLE

For Perfumes, Face Powders, Toilet Powders, Talcum Powders, Rouge, Lotions for the Skin and Hair, Lotions for Eyelashes and Eyebrows, Reducing Lotions, Astringents, Face Creams, Cleansing Creams, Water Softeners and Purifiers, Hair Tonics.
Claims use since July 11, 1930.

Ser. No. 307,285. ADELAIDE ORTEGAT, NÉE ADELAIDE FERNANDEZ LESA, Paris, France. Filed Oct. 28, 1930.

HEURES MYSTERIEUSES

For Perfumes, Face Powders, Talcum Powders, Rouge, Lotions for the Skin and Hair, Astringents, Lotion for Eyelashes and Eyebrows, Face Creams, Reducing Lotions, Water Softeners and Purifiers, Hair Tonics, Toilet Powders, Cleansing Creams.
Claims use since July 11, 1930.

Ser. No. 307,286. ADELAIDE ORTEGAT, NÉE ADELAIDE FERNANDEZ LESA, Paris, France. Filed Oct. 28, 1930.

JE SUIS AIMÉE

For Perfumes, Face Powders, Toilet Powders, Rouge, Lotions for the Skin and Hair, Lotions for Eyelashes and Eyebrows, Reducing Lotions, Astringents, Face Creams, Water Softeners and Purifiers, Hair Tonics, Talcum Powders, Cleansing Creams.
Claims use since July 11, 1930.

Ser. No. 307,317. FRIEND-ULLRICH, INC., Fort Smith, Ark. Filed Oct. 29, 1930.

Funojex

For Fungicide, Germicide, Antiseptic, and Bactericide.
Claims use since Sept. 10, 1930.

Ser. No. 307,324. JOHN N. MCMATH, Larchmont, N. Y. Filed Oct. 29, 1930.

Bridal Night

For Skin Cream, Face Powder, Toilet Water, Lip Ointment, Rouge, Bath Salts, Eyebrow Pencils; Vanity-Case Refills—Namely, Face Powder and Rouge in Powdered Form; Skin Ointment, Perfumes.
Claims use since Oct. 20, 1930.

CLASS 8

Smokers' Articles, Not Including Tobacco Products

Ser. No. 306,245. SABIENI LONDON, LTD., New York, N. Y. Filed Sept. 30, 1930.

MAYFAIR

For Smokers' Pipes.
Claims use since July, 1930.

CLASS 10

Fertilizers

Ser. No. 304,351. THE SMITH AGRICULTURAL CHEMICAL CO., Columbus, Ohio. Filed Aug. 7, 1930.

Wedo

For Plant Food and Fertilizer.
Claims use since January, 1930.

CLASS 11

Inks and Inking Materials

Ser. No. 300,229. MITTAG & VOLGER, INCORPORATED, Park Ridge, N. J. Filed May 9, 1930.



The drawing is lined for the color red, and no claim is made to the words "Silk Spun" apart from the mark shown.

For Typewriter Ribbons.

Claims use since Dec. 17, 1925.

CLASS 12

Construction Materials

Ser. No. 298,449. THE LONG-BELL LUMBER COMPANY, Longview, Wash. Filed Apr. 5, 1930.

GRAINART

For Wood Panels in Which Decorative Designs are Etched and Which are Used Both as Individual Decorations and for Wainscoting and the Like.

Claims use since July 15, 1927.

Ser. No. 300,012. THE CARBORUNDUM COMPANY, Niagara Falls, N. Y. Filed May 6, 1930.

CARBO

For Refractory and Nonmetallic Heat-Conducting Blocks, Bricks, Tiles, Forms, Shapes, Linings, and Tubes, Bulk Materials for Forming the Same, and Refractory and Heat-Resisting Cements.

Claims use since January, 1906.

Ser. No. 300,098. AKTIEBOLAGET NOL-TINGSTAD, Gottenborg, Sweden. Filed May 8, 1930.



No claim being made to the exclusive use of the words "Nol Sweden" apart from the mark as shown in the drawing.

For Fibre Boards for Building Purposes.

Claims use since 1916.

Ser. No. 303,366. SAMUEL G. DAVIS, Woodbury, N. J. Filed July 11, 1930.

SUPREME

For Plastic Molding Material for Use with Cementitious Walls, Building Blocks, and the Like to Produce an Imitation-Marble Face.

Claims use since May 1, 1930.

Ser. No. 305,488. MANCHESTER REAL ESTATE AND MANUFACTURING COMPANY, Epping, N. H. Filed Sept. 9, 1930.



For Bricks and Clay Tiles.

Claims use since 1890.

Ser. No. 305,539. QUIGLEY COMPANY, INC., New York, N. Y. Filed Sept. 10, 1930.



No claim is made to the word "Seal" separately or otherwise than as associated with the mark shown.

For Plastic Expansive-Joint-Sealing Compound.

Claims use since Aug. 19, 1930.

Ser. No. 305,947. THOMAS TREVORROW, Culver City, Calif. Filed Sept. 22, 1930.



For Composition Wall and Floor Material Composed of Magnesium Oxide, Magnesium Chloride, Wood Pulp, and a Mineral Filler.

Claims use since July 1, 1930.

Ser. No. 306,900. THE PERMA-STAIN COMPANY, Cleveland, Ohio. Filed Oct. 18, 1930.

PERMA-STAIN

The use of the word "Stain" and the representation of the goods are disclaimed except as a part of the trade-mark.

For Shingles, Wood Roofing Material, and Wood Siding Material for Buildings.

Claims use since Apr. 7, 1925.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 279,420. THE PALNUT COMPANY, Irvington, N. J. Filed Feb. 15, 1929.

"PALNUTS"

For Nut Locks.

Claims use since Sept. 18, 1919.

Ser. No. 279,421. THE PALNUT COMPANY, Irvington, N. J. Filed Feb. 15, 1929.



No claim being made to the representation of the nut lock apart from the mark as shown on the drawing.

For Nut Locks.

Claims use since Sept. 18, 1919.

Ser. No. 281,252. HARRY BAYLIES, INC., Los Angeles, Calif. Filed Mar. 25, 1929.



No claim being made to the representation of the fence nor the word "Fence" apart from the mark as shown.

For Metal Fences.

Claims use since Dec. 26, 1928.

Ser. No. 298,014. CHATTANOOGA IMPLEMENT & MFG. CO., Chattanooga, Tenn. Filed Mar. 28, 1930.



For Andirons, Hearth Fenders, Fireplace Screens, Nursery Fenders, Dog Irons, and Spark Guards.

Claims use since August, 1906.

Ser. No. 298,373. BOSS BOLT AND NUT COMPANY, Chicago, Ill. Filed Apr. 4, 1930.

BOSS

For Bolts, Nuts, Self-Locking Nuts, Lock Nuts, Lag Screws, and Nut Locks.

Claims use since February, 1911.

CLASS 15

Oils and Greases

Ser. No. 304,979. TIDE WATER OIL COMPANY, Bayonne, N. J., and New York, N. Y. Filed Aug. 23, 1930. Under 10-year proviso.

TIDE WATER OIL CO.

For Lubricating Oils and Greases.
Claims use since Jan. 1, 1889.

Ser. No. 306,024. LEO D. ULRICH, Louisville, Ky. Filed Sept. 24, 1930.

NOX-O-NO

For Gasoline.
Claims use since Aug. 10, 1930.

Ser. No. 306,809. THE DENHAM OIL COMPANY, Indianapolis, Ind. Filed Oct. 16, 1930.

LUBR-EEZE

For Lubricating Oil.
Claims use since September, 1928.

CLASS 16

Paints and Painters' Materials

Ser. No. 298,296. NEWMAN D. WINKLER, D. D. S., doing business as Colorex Laboratories, New York, N. Y. Filed Apr. 2, 1930.

Colorex

For Paint Preparation for Coloring Photographic Films and Plates.
Claims use since Mar. 1, 1930.

Ser. No. 298,966. JOHN A. WIRES, Chicago, Ill. Filed Apr. 16, 1930.

COMP-O-LACQ

For Liquid Lacquer Surface Dressing for Application to Linoleum, Cement, Composition, Wood or Rubber Tile Floors.
Claims use since Jan. 1, 1930.

Ser. No. 306,334. RICHARD C. HARRISON, doing business as Harrison & Company, Haverhill, Mass. Filed Oct. 2, 1930.

4A

For Automobile Polish.
Claims use since Apr. 29, 1930.

Ser. No. 306,413. THE MURALO COMPANY, INC., New Brighton, N. Y. Filed Oct. 4, 1930.

BLUE DIAMOND

For Painter's Wall Size in Dry-Powder Form.
Claims use since July 10, 1930.

Ser. No. 306,889. JOHN HAGEN, Overland, Mo. Filed Oct. 18, 1930.

NEGAH

For Lacquer for Preventing Tarnish and Corrosion of Metal.
Claims use since Oct. 2, 1930.

CLASS 17

Tobacco Products

Ser. No. 306,477. GENERAL CIGAR CO., INC., New York, N. Y. Filed Oct. 6, 1930.

THE TASTE TELLS THE TASTE TELLS QUATILITY YES! IT IS DIFFERENT

No claim is made to the words "The Taste Tells" and "Yes! It is Different" apart from the mark shown in the drawing.
Claims use since 1902.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 298,184. ASHCO CORPORATION, St. Paul, Minn. Filed Mar. 31, 1930.

TORRID-HETE

For Automobile Heaters Utilizing Fuels from the Engine.
Claims use since Feb. 1, 1929.

Ser. No. 306,807. CHRYSLER CORPORATION, Detroit, Mich. Filed Oct. 16, 1930.

CHRYSLER IMPERIAL

For Automobiles and Their Structural Parts.
Claims use since Aug. 2, 1930.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 290,802. TWINING-SCOTT, Los Angeles, Calif. Filed Oct. 8, 1929.

RENZOLE

For Electric Insulating Compound in the Form of Sheets, Panels, Pulleys, Gears, and Similar Articles for Electrical Use.
Claims use since Mar. 15, 1929.

Ser. No. 304,896. TOWNSEND-WULFF, INC., Long Island City, N. Y. Filed Aug. 21, 1930.

HOT-LIPS

For Electric Cigarette Lighters.
Claims use since July 7, 1930.

Ser. No. 305,724. OIL-O-CHRON CORPORATION OF AMERICA, Wilmington, Del., and Boston, Mass. Filed Sept. 15, 1930.

OIL-O-CHRON

The word "Oil" is disclaimed apart from the mark shown in the drawing.
For Electric Switches for Controlling the Operation of Oil-Burning Furnaces, Whether Regulated by Heat Thermostat or Other Means.
Claims use since July 1, 1930.

Ser. No. 305,732. LAWRENCE R. TERPLE, Portland, Oreg. Filed Sept. 15, 1930.

SYNCROSTAT

For Thermostatically-Controlled Electric Switches Especially Adapted for Controlling Heat-Generating Devices, Such as Oil, Gas, and Solid-Fuel Furnaces.
Claims use since Aug. 1, 1930.

Ser. No. 305,968. FLEXLUME DIXIE NEON SIGN COMPANY, Houston, Tex. Filed Sept. 23, 1930.

NEINDOR

For Electrically-Illuminated Signs.
Claims use since Apr. 25, 1930.

Ser. No. 305,969. FLEXLUME DIXIE NEON SIGN COMPANY, Houston, Tex. Filed Sept. 23, 1930.

NEOUTDOR

For Electrically-Illuminated Signs.
Claims use since Apr. 25, 1930.

Ser. No. 306,292. TERMINAL PRODUCTS CO., INC., New York, N. Y. Filed Oct. 1, 1930.

TOM THUMB

For Water Heaters of the Type Wherein the Heat Applied is Produced by Electricity, Said Heaters Being Both for Domestic and Commercial Use.
Claims use since Sept. 20, 1930.

Ser. No. 306,617. NATIONAL ELECTRIC PRODUCTS CORPORATION, Pittsburgh, Pa. Filed Oct. 10, 1930.

"Priout" NATIONAL

No claim is made herein to the word "Priout" and to the representation of a switch box apart from the mark as shown in the drawing.
For Switch Boxes for Electrical Installations.
Claims use since May 1, 1929.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 297,720. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio. Filed Mar. 22, 1930.

Crayonexing

For Materials Used in Process for Applying Crayons to Fabrics—Namely, Boxes Containing Crayons, Textile Fabrics, the Materials as a Whole Being in the Nature of a Game, and Directions for Use.
Claims use since Mar. 1, 1930.

Ser. No. 304,731. FRED MEDART MANUFACTURING CO., St. Louis, Mo. Filed Aug. 18, 1930. Under 10-year proviso.

MEDART

For Gymnasium and Playground Apparatus—Namely, Abdominal Mats, Arm Machines, Back Stands, Balance Boards, Ball Ropes; Bars—Namely, Horizontal and Vaulting; Indoor Baseballs, Basket Balls, Basket-Ball Back Stops, Basket-Ball Goals, Indoor Bats, Bean Bags, Stall-Bar Benches, Booms, Boom Saddles, Boxing Rings, Bucks, Ceiling Racks, Chest Pulley Weights, Climbing Apparatus, Combination Volley-Ball and Tennis Standards, Dividing Nets, Iron and Wood Dumb-Bells, Flying Rings, Frictional Machines, Giant Strides, Glass Basket-Ball Back Stops, Gymnasium Mats, Hangers for Indian Clubs and Dumb-Bells, Hangers for Mats, Horizontal Bars, Horizontal Ladders, Horses, Inclined Planks, Indian-Club Hangers, Indian Clubs, Indoor Shots, Instructors' Platforms, Intercostal Pulley Weights, Jumping Boards, Jumping Standards, Jump Mats, Jump-Stand Cords, Knotted Climbing Ropes, Adjustable Ladders, Rope Ladders, Horizontal Ladders, Swedish Ladders, Swimming-Pool Ladders, Leg Pulley Weights, Lungers (Belts with Swivel Couplings Thereon for Tumbling Exercises), Mats, Mat Covers, Mat Hangers, Mat Trucks, Medicine Balls, Medicine-Ball Racks, Nautical Wheels, Neck Pulley Weights, Volley-Ball and Tennis Nets, Parallel Bars, Climbing Poles, Potato-Race Standards, Pulley Weights, Pyramid Ladders, Quarter Circles, Rath Attachments (Boards for Fastening to Ladders for the So-Called Rath Exercisea), Rescue Poles, Rings, Ring Tosses, Rope Hoists, Rope Ladders, Climbing Ropes, Rowing Machines, Rowing Pulley Weights, Rowing Slides, Short Horses, Swimming-Pool Slides, Springboards, Stall Bars, Striking-Bag Drums, Striking Bags, Swimming-Pool Toys, Swimming Trolleys, Teeter Ladders, Tennis Standards, Toe Blocks, Trapezes, Traveling Parallels, Traveling Rings, Triplex Pulley Weights, Vaulting Bars, Vaulting Boards, Vaulting Boxes, Vaulting Bucks, Vaulting Horses, Vaulting Poles, Vaulting Standards, Vaulting Troughs, Volley Balls, Volley-Ball Standards, Wall Parallels, Wands, Wand Racks, Winches, Wrestling Machines, Wrestling Mats, Wrist Machines, Swings, Slides, Seesaws, Revolving Outfits, Sand Boxes, Sand-Box Canopies, Portable Wading Pools, Portable Swimming Pools, and Piping, Fittings, Hangers, and Floor Plates Therefor, Sold as a Unit or in Connection with Gymnasium and/or Playground Equipment.
Claims use since 1881.

Ser. No. 306,113. C. B. WEBB COMPANY, New York, N. Y. Filed Sept. 26, 1930.

GAM-AL D

For Bouncing Balls for Use in Games, Such as Soccer, Volley Ball, and Basket Ball.
Claims use since Sept. 18, 1930.

Ser. No. 306,199. PEE WEE GOLF COURSES, INC., Muskegon, Mich. Filed Sept. 29, 1930.

PEE WEE PUTTER

No claim is made to the word "Putter" apart from the mark shown in the drawing.
For Portable Putting Game.
Claims use since Aug. 1, 1930.

Ser. No. 306,205. THE ULLMAN MANUFACTURING COMPANY, Brooklyn, N. Y. Filed Sept. 29, 1930.

JUMBO CRAYONS

No claim is made to the word "Crayons" apart from the mark shown.
For Large Toy Crayons for Children.
Claims use since Jan. 1, 1929.

Ser. No. 306,211. WILLIAM G. WEBSTER, Detroit, Mich. Filed Sept. 29, 1930.

SNOOKER

For Game Played with a Plurality of Balls, an Instrument Presenting a Hard Surface and a Smooth Flat Surface, Having at Least One Pocket, upon Which the Balls are Placed and Then Shot into the Pocket by Means of the Hard-Surfaced Instrument.
Claims use since Aug. 29, 1930.

Ser. No. 306,504. NEW METHOD DIE & CUT-OUT CO., INC., doing business as Durrell Company, Cambridge, Mass. Filed Oct. 7, 1930.



TRIXYTOY

No claim being made to the word "Toy" nor the representation of the dolls apart from the mark shown on the drawing.
For Animal Pull Toys, Novelty Carts and Boxes, Doll Houses, Doll Cradles and Furniture, Educational Games and Toys, Toy Soldiers, Forts, Wheelbarrows, Wagons, Arks, and Letters.
Claims use since May 1, 1929.

Ser. No. 306,700. THE HANNA MANUFACTURING COMPANY, Athens, Ga. Filed Oct. 13, 1930.

BEAVER DRIVER

For Baseball Bats.
Claims use since Sept. 1, 1930.

Ser. No. 306,722. DONOVAN M. MCSPADDEN, doing business as Parlor Putt Company, St. Louis, Mo. Filed Oct. 13, 1930.

PARLOR-PUTT

For Parlor Golf Game.
Claims use since August, 1930.

Ser. No. 306,733. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio. Filed Oct. 14, 1930.

LIVE-WIRE

For Artificial Bait Such as Minnows.
Claims use since Sept. 27, 1930.

Ser. No. 306,929. BON-DEE GOLF BALL CO., Detroit, Mich. Filed Oct. 20, 1930.

DARB

For Golf Balls.
Claims use since Feb. 25, 1929.

Ser. No. 306,930. BON-DEE GOLF BALL CO., Detroit, Mich. Filed Oct. 20, 1930.

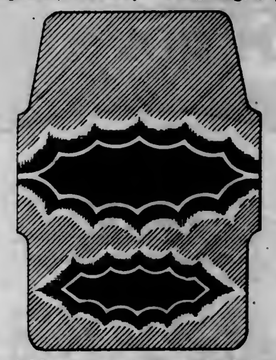
PARKDALE

For Golf Balls.
Claims use since Aug. 15, 1930.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 271,828. ROTH-BÜCHNER AKTIENGESELLSCHAFT, Berlin-Tempelhof, Germany. Filed Aug. 31, 1928.



The crosshatchings are only illustrated for the purpose of differentiating light and dark coloring and are not intended to indicate particular colors.
For Cutlery—Namely, Safety Razors and Blades Therefor, Mechanical Sharpening Apparatus for Safety-Razor Blades, Shearing Machines, Hair Clippers.
Claims use since Mar. 17, 1927.

Ser. No. 291,264. CINCINNATI GRINDERS INCORPORATED, Cincinnati, Ohio. Filed Oct. 19, 1929.



For Machine Tools—viz, Grinding Machines for the Production of Surfaces of Revolution—Namely, Center-Type Grinders, Centerless-Type Grinders, and Internal Grinders.
Claims use since Oct. 2, 1929.

Ser. No. 296,960. WILLIAM DIXON, INCORPORATED, Newark, N. J. Filed Mar. 7, 1930.



Applicant claims ownership of registration No. 79,753 issued Oct. 4, 1910.

For Pliers, Engraving Tools, Files, and Saws.

Claims use since Nov. 1, 1905.

Ser. No. 298,228. DAVIS MANUFACTURING CO., Davis, Calif. Filed Apr. 1, 1930.



The words "Hydraulic Dirt Mover Rig" are disclaimed apart from the rest of the mark shown. The lining on the drawing denotes the colors red and gold.

For Earth Moving and Handling Machinery—Namely, Scrapers, Land Levelers, and Dirt Movers.

Claims use since Nov. 1, 1929.

Ser. No. 303,311. JOSIAH ANSTICE & CO. INC., Rochester, N. Y. Filed July 10, 1930. Under 10-year proviso.

STERLING

For Vegetable Peelers, Slicers, French Fry Cutters, Vegetable Cubers and Dicers, Potato Mashers, and Silver Burnishing Machines.

Claims use since Jan. 1, 1895.

Ser. No. 304,226. WIEBUSCH & HILGER, LIMITED, New York, N. Y. Filed Aug. 4, 1930.

DIXIE

For Safety-Razor Blades.

Claims use since July 25, 1930.

Ser. No. 305,584. THE ROCKWOOD MANUFACTURING COMPANY, Indianapolis, Ind. Filed Sept. 11, 1930.

UNI-PULL

For Combined Pulley and Belt Power Transmission and Mounting.

Claims use since Oct. 25, 1929.

Ser. No. 305,961. KENNETH L. CHASE, Boston, Mass. Filed Sept. 23, 1930.

ARGUS

For Automatic Thread Clearer for Use With Textile Machinery.

Claims use since July 25, 1930.

Ser. No. 306,308. RALPH G. DENK, doing business as Triplex Heating Specialty Co., Peru, Ind. Filed Oct. 2, 1930.

AQUALATOR

For Pump Structures.

Claims use since June 7, 1930.

Ser. No. 306,590. G. & H. BARNETT COMPANY, Philadelphia, Pa. Filed Oct. 10, 1930.



The trade-mark is a band of blue color coextensive with the tang of the file and covering the entire surface thereof. The lining is intended to indicate the color blue. No claim being made to the representation of the file.

For Files and Rasps.

Claims use since Sept. 1, 1930.

Ser. No. 306,594. CHAMPION SHOE MACHINERY COMPANY, St. Louis, Mo. Filed Oct. 9, 1930.

Red Line

As shown in the accompanying drawing the trade-mark is applied in red.

For Finishing Machines for Boots and Shoes; Sewing Machines for Boots, Shoes, and Harness; Metallic-Fastener-Inserting Machines for Boots and Shoes; Cutting Machines, Skiving Machines, Splitting Machines, Channelling Machines, and Grooving Machines for Leather; Stitch-Removing Machines for Boots and Shoes, Rough-Rounding Machines and Cutting Machines for Boot and Shoe Soles.

Claims use since June 6, 1928.

Ser. No. 306,600. FARRINGTON MANUFACTURING COMPANY, Boston, Mass. Filed Oct. 10, 1930.

CHARG-A-PLATE

No registration rights are claimed for the word "Plate" apart from the mark shown in the drawing.

For Embossing and Printing Machines and Parts Thereof.

Claims use since June, 1930.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 267,861. SENDLINGER OPTISCHE GLASWERKE GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Berlin-Zehlendorf, Germany. Filed June 11, 1928.

Ignal-Glas

No claim is made to the use of the word "Glas" apart from the mark shown in the drawing.

For Glass Panes for Projection Apparatus, Glass Panes for Episcopic Projection, Glass Panes Used in Photostatic Apparatus, Glass Water-Level Indicators of Steam Boilers, Lenses Used in Motion-Picture Apparatus, Condensers for Collecting or Condensing Light, and Special Glass Articles Having Great Resistance to Rises and Falls in Temperature.

Claims use since Dec. 9, 1919.

Ser. No. 304,345. ROSLINOID MANUFACTURING CO., East Boston, Mass. Filed Aug. 7, 1930.

PROTECT-IZE

The word "Protect" is disclaimed apart from the mark as shown.

For Sun Glasses, Goggles, and Spectacles.

Claims use since May 6, 1930.

Ser. No. 306,621. TESTRITE INSTRUMENT COMPANY, New York, N. Y. Filed Oct. 10, 1930.

STANRITE

For Portable Adjustable Supports for Optical, Photographic, Scientific Apparatus—Namely, Tripods for Cameras, Telescopes.

Claims use since May, 1930.

Ser. No. 306,622. TESTRITE INSTRUMENT COMPANY, New York, N. Y. Filed Oct. 10, 1930.

PANRITE

For Swingable Base Support for Optical, Photographic, Scientific Apparatus—Namely, a Tripod Top for Swingably Supporting Cameras, Telescopes.

Claims use since 1928.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 293,609. S. H. KRESS & CO., New York, N. Y. Filed Dec. 14, 1929.

SYLVIA

For Teaspoons, Tablespoons, Dessert Spoons, Soup Spoons, Sugar Spoons, Iced-Tea Spoons, Baby Spoons, After-Dinner Coffee Spoons, Berry Spoons, Butter Spreaders, Butter Knives, Dinner Knives, Dinner Knives (Stainless), Children's Knives, Children's Forks, Salad Forks, Oyster Forks, Dinner Forks, Dessert Forks, Cold-Meat Forks, Gravy Ladles, and Pastry Servers, All Made of or Plated with Precious Metal.

Claims use since Nov. 1, 1929.

Ser. No. 306,497. MAX KRONSTADT, doing business as Bristol Seamless Ring Co., New York, N. Y. Filed Oct. 7, 1930.

TO LOVE

For Finger Rings.

Claims use since January, 1930.

Ser. No. 306,830. ONEIDA COMMUNITY, LIMITED, Oneida, N. Y. Filed Oct. 16, 1930.

CHEVRON

For Silver Flatware and Hollow Ware.

Claims use since Aug. 16, 1930.

Ser. No. 306,832. ONEIDA COMMUNITY, LIMITED, Oneida, N. Y. Filed Oct. 16, 1930.

NOBLESSE

For Silver Flatware and Hollow Ware.

Claims use since Aug. 22, 1930.

Ser. No. 306,835. PHI SIGMA SOCIETY, Norman, Okla. Filed Oct. 16, 1930.

ΦΣ

For Pins and Keys All Made or Plated with Precious Metal.

Claims use since Mar. 17, 1915.

CLASS 31

Filters and Refrigerators

Ser. No. 307,191. CARL MEYER WEINHEIMER, Buffalo, N. Y. Filed Oct. 25, 1930.

FRIGISINK

For Refrigerators.

Claims use since Sept. 30, 1930.

CLASS 32

Furniture and Upholstery

Ser. No. 295,529. FRED MEDART MANUFACTURING CO., St. Louis, Mo. Filed Feb. 3, 1930. Under 10-year proviso.

MEDART

For Steel Lockers, Steel Shelving, Steel Cabinets, Locker Benches, Box Lockers, Book and Stationery Cabinets, Game Cabinets, Indian Club and Dump-Bell Cabinets, Key Cabinets, and Plinths.

Claims use since 1881.

Ser. No. 299,446. CHARLES KARR COMPANY, Holland, Mich. Filed Apr. 25, 1930.

MORLIFE

For Mattresses.
Claims use since Apr. 8, 1930.

Ser. No. 299,544. ANNA S. ANZELL, doing business as Specialty Manufacturing Company, Brooklyn, N. Y. Filed Apr. 28, 1930.

Ann Zell
TRUTH MIRROR

No claim is made to the word "Mirror" apart from the other features of the mark.
For Hand, Vanity, Purse, Magnifying, Beautifying, Plain, and Make-Up Mirrors.
Claims use since Feb. 5, 1930.

Ser. No. 306,662. M. RAWLE COMPANY, New York, N. Y. Filed Oct. 11, 1930.

COPABAC

For Mirrors.
Claims use since January, 1930.

Ser. No. 306,999. HARRY W. GOLDING, New York, N. Y. Filed Oct. 21, 1930.

SHEERAIR

For Mattresses, Pillows, Cushions Arranged Separately Upon or Affixed to Furniture Such as Chairs, Benches, Seats, or Other Furniture or in Connection with Automobiles, Railway Cars, Aeroplanes, Steamships, and Other Vehicles or Any Other Upholstered Means or Contrivances for the Personal Comfort Particularly Made of Resilient Material with or without Airholes Either Partly or Throughout.
Claims use since Sept. 11, 1930.

CLASS 34

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus

Ser. No. 289,583. ERNST GLANTZBERG, Jacksonville, Fla., assignor to American Coolair Corporation, Jacksonville, Fla., a Corporation of Florida. Filed Sept. 10, 1929.

Coolair

For Electrically-Operated Ventilating Fans.
Claims use since May 1, 1929.

Ser. No. 306,803. AMERICAN GAS PRODUCTS CORPORATION, New York, N. Y. Filed Oct. 16, 1930.

UNIT-OR

For Gas-Heated Radiators and Parts Therefor.
Claims use since April, 1929.

Ser. No. 306,842. SUNBEAM ENGINEERING CORPORATION, Mount Vernon, N. Y. Filed Oct. 16, 1930.

SUNWAY

For Oil Burners.
Claims use since Sept. 29, 1930.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 303,259. THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn. Filed July 8, 1930.

ACE

For Brake Lining and Belting of Fibre Fabric.
Claims use since Oct. 21, 1924.

CLASS 37

Paper and Stationery

Ser. No. 298,525. DUOWRITE STATIONERY COMPANY, Wichita, Kans. Filed Apr. 7, 1930.



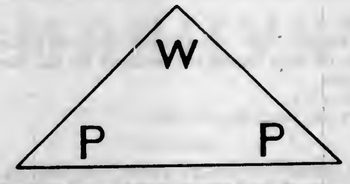
The word "Stationery," appearing on the drawing, is hereby disclaimed apart from the mark shown.
For Combined Writing Paper and Envelopes.
Claims use since Mar. 28, 1930.

Ser. No. 302,680. JAMES L. GARFIELD, Philadelphia, Pa. Filed June 21, 1930.

VISTADEX

For Card Index Adapted to Receive and to Carry Printed or Written Notations.
Claims use since May 2, 1930.

Ser. No. 305,644. WAYAGAMACK PULP & PAPER COMPANY, LIMITED, Three Rivers, Quebec, Canada. Filed Sept. 12, 1930.



For Kraft Paper and Pulp for Making Paper.
Claims use since June, 1930.

Ser. No. 305,962. THE CAPITAL WALL PAPER COMPANY, Washington, D. C. Filed Sept. 23, 1930.

Capital Wall Papers
"Set The Style"

The exclusive use of all the words appearing on the drawing, except the word "Capital" is hereby disclaimed apart from the mark shown.
For Wall Papers.
Claims use since April, 1929.

Ser. No. 306,560. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J. Filed Oct. 9, 1930.

Le Demi

For Pencils.
Claims use since Sept. 17, 1930.

Ser. No. 306,597. DANIELS MANUFACTURING COMPANY, Rhinelander, Wis. Filed Oct. 10, 1930.

DAN·D·LIN

For Paper Napkins and Paper Towels.
Claims use since Aug. 23, 1930.

CLASS 38

Prints and Publications

Ser. No. 306,264. THE GAGE PUBLISHING COMPANY, INC., New York, N. Y. Filed Oct. 1, 1930.

Electrical
Installation
Record

For Periodical.
Claims use since May 26, 1930.

Ser. No. 306,777. HOLMAN'S PRINT SHOP, INC., Boston, Mass. Filed Oct. 15, 1930.

Within the Compass of a Print Shop

For Monthly Publication.
Claims use since Oct. 6, 1930.

Ser. No. 306,867. MONTEE PUBLISHING CO., INC., Baltimore, Md. Filed Oct. 17, 1930.

The NATIONAL TURF DIGEST

For Magazine Published Every Month.
Claims use since June, 1924.

Ser. No. 306,887. WILBUR MEEK FAULKNER, doing business as Associated Motor Magazines, Springfield, Ohio. Filed Oct. 18, 1930.

BUCKEYE MOTORIST

For Monthly Magazine.
Claims use since May, 1928.

Ser. No. 306,904. THE ST. JOHN LETTER CO. INC., New York, N. Y. Filed Oct. 18, 1930.

Mailway

For Periodical Publication.
Claims use since Sept. 1, 1930.

Ser. No. 307,062. J. E. SITTERLEY, New York, N. Y. Filed Oct. 22, 1930.

WORLD'S BUSINESS

For Periodic Publication.
Claims use since Oct. 14, 1930.

Ser. No. 307,126. RICHARD W. ALLEN, Chicago, Ill. Filed Oct. 24, 1930.

Miniature GOLF COURSE NEWS

For Magazines.
Claims use since Oct. 10, 1930.

Ser. No. 307,150. ERNEST LANG, doing business as Culturist Publishing Company, Los Angeles, Calif. Filed Oct. 24, 1930.

The Culturist

For Magazine Issued Quarterly or Oftener.
Claims use since Oct. 15, 1930.

Ser. No. 307,216. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla. Filed Oct. 27, 1930.

The Phillips Gas Tank

For House Organ Issued Monthly.
Claims use since Dec. 19, 1927.

Ser. No. 307,233. RICHARD VAN DUZER, Los Angeles, Calif. Filed Oct. 27, 1930.

CHEVOPTIMISM

For Monthly Publications.
Claims use since May 1, 1930.

CLASS 39

Clothing

Ser. No. 291,628. MARATHON SHOE CO., Wausau, Wis. Filed Oct. 26, 1929.

ROGUISH BROGUE

No claim is made to the word "Brogue" apart from the mark as shown.
For Shoes Made of a Combination of Leather and Fabric and a Combination of Leather, Rubber, and Fabric.
Claims use since Feb. 10, 1928.

Ser. No. 299,420. VICTOR PRODUCTS CORPORATION, Winchester, Va. Filed Apr. 24, 1930.

DREADNOT

For Rubber Heels and Rubber Soles.
Claims use since June 26, 1916.

Ser. No. 300,735. I. MILLER & SONS, INCORPORATED, Long Island City, N. Y. Filed May 17, 1930.

DUBBL-DULL

The exclusive right to the use of the word "Dull" apart from the mark as shown is disclaimed for the purpose of registration.
For Hosiery.
Claims use since Mar. 1, 1930.

Ser. No. 300,801. I. MILLER & SONS, INCORPORATED, Long Island City, N. Y. Filed May 19, 1930.

charmay

For Hosiery.
Claims use since Mar. 1, 1930.

Ser. No. 301,280. MOORHEAD KNITTING CO. INC., Harrisburg, Pa. Filed May 26, 1930.

Adelto

For Men's Hose.
Claims use since Mar. 18, 1930.

Ser. No. 302,746. EDWARD J. RAMSEY, doing business as Ramsey's "They Cannot Rip", New York, N. Y. Filed June 23, 1930.

HEALTHHIKERS

For Shoes Constructed of Leather, or Rubber, or Fabric or of Combinations of two or More of These Materials.
Claims use since March, 1927.

Ser. No. 304,619. S. H. KRESS & CO., New York, N. Y. Filed Aug. 14, 1930.

Noble Lady

For Women's and Misses' Shoes and Boudoir Slippers Made Chiefly of Leather, Satin, or Brocade or a Combination of the Two or More of These Materials; Women's and Misses' Bathing Suits of Wool, Silk, Cotton, or Combinations Thereof; Women's and Misses' Chemises, Step-Ins (Underdrawers), Drawers, Vests, Bloomers, Petticoats, Dress Slips, Nightgowns, Pajamas, Negligees, and Bath Robes of Silk, Wool, Cotton, or Combinations of These Materials; Women's and Misses Brassières, Corsets, Corselets, Girdles, and Belts for Outer Wear of Satin, Cotton, Rubber, or Combinations Thereof; Hose Supporters.
Claims use since Mar. 1, 1930.

Ser. No. 304,759. AL FEIT, doing business as Marilyn Specialty Shop, New York, N. Y. Filed Aug. 19, 1930.

"MARILYN"

For Corsets.
Claims use since Mar. 8, 1928.

Ser. No. 304,998. PAUL DIAMOND, doing business as Protektovest Knitting Co., Almonesson, N. J. Filed Aug. 25, 1930.

PROTEKTOVEST

For Sleeveless Sweater of Knitted Fabric for Outer Wear for Men, Women, and Children.
Claims use since Aug. 14, 1930.

Ser. No. 305,164. BERTHA EILERS, New York, N. Y. Filed Aug. 30, 1930.

CELLO

For Men's Garters and Ladies' Garters, Hose Supporters, Round Garters, Baby Garters, Arm Bands, and Suspenders.
Claims use since May 1, 1930.

Ser. No. 305,752. W. W. GLECKNER & SONS CO., Canton, Pa. Filed Sept. 16, 1930.

GLECKNER

For Waist Belts, Gloves Made Entirely of Leather, Gloves Made Entirely of Fabric, Gloves Made of Leather and Fabric Combined, Gloves Made of Leather, Rubber Elastic, and Fabric Combined, and Mittens.
Claims use since Feb. 12, 1926, on belts; since Sept. 18, 1925, on gloves and mittens.

Ser. No. 305,812. THE M. B. HAMILTON MFG. CO., Leavenworth, Kans. Filed Sept. 18, 1930.



The lining in the name "Jayhawk" on the drawing is for the purpose of shading only. The lining in the other instances is to indicate the colors yellow, red, and blue.
For Cotton or Woolen Gloves or Mittens.
Claims use since since Oct. 1, 1911.

Ser. No. 305,832. MORRIS J. SCHULMAN, INC., New York, N. Y. Filed Sept. 18, 1930.

Legion Hats



The word "Hats" is disclaimed apart from the mark shown on the drawing.
For Ladies' Hats.
Claims use since April, 1928.

Ser. No. 305,908. RUSSEKS FIFTH AVENUE INC., New York, N. Y. Filed Sept. 20, 1930.

"Little DEB"

For Misses' and Children's Hats; Shoes of Leather, Calfskin, Fabric, and Satin; Slippers of Leather, Felt, and Wool; Raincoats, Rubbers, Overshoes of Rubber, Sandals of Rubber, Riding Boots of Leather, Puttees; Fabric, Leather, and Wool Gloves; Leggings, Lumberjackets of Leather, Suede, and Wool; Overgaiters and Spats, Sweaters, Stockings, Socks; Underwear of Knitted, Netted and Textile Fabrics; Collar and Cuff Sets, Belts for Outer Wear, Scarfs, Frocks, Dresses, Sandals of Leather and Straw, Bloomers, Chemises, Brassières, Negligees, Petticoats, Panties, Vests, Shirts for Underwear, Suits, Blouses, Nightgowns, Pyjamas, Caps, Hats, Coats, Bathing Suits and Robes, Beach Overalls, Corsets, Garter Belts, Girdles, Wraps, Coolie Coats, Fur Coats and Fur Scarfs, Riding Habits, Knickers, Bath Robes, Skirts for Under and Outer Wear, Wrappers, Aprons, Children's Sun Suits and Rompers.

Claims use since Mar. 8, 1929.

Ser. No. 305,911. SHOECRAFT SHOP, INC., New York, N. Y. Filed Sept. 20, 1930.

SALON-ETTE

For Misses' and Women's Shoes of Leather, Rubber, or Fabric and Combinations of These Materials.

Claims use since Sept. 1, 1930.

Ser. No. 306,061. FRANK R. JELLEFF, INC., Washington, D. C. Filed Sept. 25, 1930.

Success Fashions

No claim is made to the word "Fashions" apart from the mark shown in the drawing.

For Ladies' and Girls' Coats, Dresses, and Frocks.

Claims use since Sept. 10, 1930.

Ser. No. 306,303. SUNSET KNITTING COMPANY, San Francisco, Calif. Filed Oct. 1, 1930.

SUNSET
SAN FRANCISCO
Dri-Qik
100% PURE WOOL

The applicant disclaims the notations "Knit", "San Francisco", and "100% Pure Wool" apart from the mark as shown on the drawing.

For Bathing Suits, Only, for Men, Women, and Children.

Claims use since Aug. 1, 1930.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 267,530. CARSON PIRIE SCOTT & CO., Chicago, Ill. Filed June 6, 1928.

STRATHMORE

For Linen Piece Goods, and Table Napkins, Tablecloths, Towels of Linen.

Claims use since 1921.

Ser. No. 288,518. ELK MILLS FABRICS COMPANY, Elk Mills, Md. Filed Aug. 14, 1929.

SILCO SAN
MADE BY ELK MILLS
FROM CHARDONIZE

No claim is made to the words "Made By" and "From Chardonize" apart from the mark shown in the drawing.

For Piece Goods Comprising Artificial Silk and Mixtures Thereof with Cotton and with Wool.

Claims use since November, 1926.

Ser. No. 298,450. H. R. MALLINSON & COMPANY, INC., New York, N. Y. Filed Apr. 5, 1930.

Willow

For Silk Piece Goods.

Claims use since Oct. 9, 1929.

Ser. No. 298,596. SOCIETE ANONYME ETABLISSEMENTS ANDRE GILLIER, Troyes, France. Filed Apr. 9, 1930.

JILDOR

For Textile Fabrics of Cotton, Wool or Silk in the Piece.

Claims use since July 9, 1928.

Ser. No. 305,736. E. F. TIMME & SON, New York, N. Y. Filed Sept. 15, 1930.

Lapinpeere

For Pile Fabrics in the Piece.

Claims use since Sept. 8, 1930.

Ser. No. 306,086. CAMPBELL COMPANY, New York, N. Y. Filed Sept. 26, 1930.

METTRETEX FABRICS

No claim being made to the exclusive use of the word "Fabrics" apart from the mark as shown in the drawing.

For Cotton Goods in the Piece.

Claims use since Sept. 17, 1930.

Ser. No. 306,202. ALEXANDER SMITH & SONS CARPET COMPANY, Yonkers, N. Y. Filed Sept. 29, 1930.

CARPET
Alexander Smith & Sons
COMPANY

For Wool Carpets and Wool Rugs.

Claims use since 1890.

Ser. No. 306,653. KRESGE DEPARTMENT STORE CORPORATION, Newark, N. J. Filed Oct. 11, 1930.

Lady Treat

For Sheets and Pillowcases.

Claims use since Sept. 30, 1930.

Ser. No. 307,249. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Oct. 28, 1930.

Sportufts

For Pile Fabrics in the Piece.

Claims use since Oct. 18, 1930.

CLASS 43

Thread and Yarn

Ser. No. 305,002. GLANZSTOFF-COURTAULDS G. M. B. H., Cologne-Merheim, Germany. Filed Aug. 25, 1930.

„Ducella"

For Threads and Yarns Made from Artificial Silk.

Claims use since Mar. 1, 1930.

Ser. No. 305,003. GLANZSTOFF-COURTAULDS G. M. B. H., Cologne-Merheim, Germany. Filed Aug. 25, 1930.

Opago

For Threads and Yarns Made from Artificial Silk.

Claims use since Mar. 15, 1929.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 305,266. JULIUS CHARLESTEIN, doing business as Premier Dental Products Co., Philadelphia, Pa. Filed Sept. 3, 1930.

"THRIF-T-TRANSFER"

For Scalers, Burnishers, Plastics, Chisels, Pluggers, and Spatulas and the Like, All Such Goods Being Used for Dental Purposes.

Claims use since June, 1930.

Ser. No. 306,196. THE WM. MEYER CO., Chicago, Ill. Filed Sept. 29, 1930.

TROPIC

For Electrical Hair Dryer.

Claims use since July 1, 1930.

Ser. No. 306,252. ENSLEY A. WEIR, doing business as Aroc Sales Company, Worcester, Mass. Filed Sept. 30, 1930.

AROC

For Finger-Nail Polisher and Buffer.

Claims use since July 8, 1930.

Ser. No. 306,275. MATERNAL HEALTH PRODUCTS, INC., New York, N. Y. Filed Oct. 1, 1930.

PAT-A-PAD

No claim is made to the word "Pad" apart from the mark as shown.
For Deodorant Pad to be Placed in Sanitary Napkins.
Claims use since Sept. 15, 1930.

Ser. No. 306,436. WILBUR H. FISHER, Ottawa, Ill. Filed Oct. 6, 1930.

Fishermaid

For Apparel Devices—Namely, Sanitary Belts.
Claims use since August, 1930.

Ser. No. 306,520. ACME COTTON PRODUCTS CO., INC., New York, N. Y. Filed Oct. 8, 1930.

Snopure

For Absorbent Cotton.
Claims use since Mar. 5, 1930.

Ser. No. 306,959. NYAL COMPANY, Detroit, Mich. Filed Oct. 20, 1930.

NYNAPS

For Sanitary Napkins.
Claims use since Aug. 28, 1930.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 297,406. BLEND-O PRODUCTS CO., Los Angeles, Calif. Filed Mar. 17, 1930.

BLEND-O

The word "Blend" is disclaimed apart from the mark as shown.
For Nonalcoholic, Maltless, Beverages Sold as Soft Drinks.
Claims use since Dec. 30, 1929.

Ser. No. 305,658. DA COSTA COFFEE CORPORATION, New York, N. Y. Filed Sept. 13, 1930.

KOFFEE-KAP

No claim is made to the word "Koffee" except in the association shown on the drawing.
For Nonalcoholic, Maltless Concentrates Used in the Preparation of Soft Drinks.
Claims use since Apr. 1, 1930.

Ser. No. 305,709. JUILLARD-COCKCROFT CORPORATION, Watsonville, Calif. Filed Sept. 15, 1930.

HACIENDA

For Nonalcoholic Fruit Juices Used as Soft Drinks.
Claims use since Aug. 28, 1930.

Ser. No. 306,701. HICO PRODUCTS CO., INCORPORATED, St. Louis, Mo. Filed Oct. 13, 1930.



The picture is fanciful.
For Nonalcoholic, Maltless, Flavored Powder for Making Soft Drinks.
Claims use since May 23, 1930.

Ser. No. 306,815. HENRY & HENRY, INC., Buffalo, N. Y. Filed Oct. 16, 1930.

GOLF TEE

For Flavoring Syrups Used for the Preparation of Non-Alcoholic, Maltless Beverages Sold as Soft Drinks.
Claims use since Oct. 1, 1930.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 291,168. LONG ISLAND FROZEN CONFECTION COMPANY, INC., Long Island City, N. Y. Filed Oct. 17, 1929.

HONEYMOON BAR

Claim to the exclusive use of the word "Bar" apart from the trade-mark as shown is not made.
For Chocolate-Covered Ice Cream.
Claims use since May, 1922.

Ser. No. 291,169. LONG ISLAND FROZEN CONFECTION COMPANY, INC., Long Island City, N. Y. Filed Oct. 17, 1929.

HONEYMOON PIE

For Chocolate-Covered Ice Cream.
Claims use since May, 1922.

Ser. No. 297,446. MILLER-RICHARDSON CO. INC., Lowville, N. Y. Filed Mar. 17, 1930.

LITTLE HERKIMER

For purposes of this registration the word "Herkimer" is disclaimed apart from the mark shown.
For Cheese.
Claims use since Apr. 1, 1928.

Ser. No. 298,759. MONOCACY VALLEY CANNING COMPANY, Frederick, Md. Filed Apr. 12, 1930.

SWEET MEADOW

For Canned Fruits and Vegetables.
Claims use since 1899.

Ser. No. 300,548. CHARLES BANKS STOUT, doing business as Washington Flour Mill, Washington, Mo. Filed May 14, 1930. Under 10-year proviso.

ROSE HILL

For Wheat Flour.
Claims use since May 1, 1874.

Ser. No. 300,818. E. J. SHIMON, doing business as Wisconsin Poultry Farms Exchange, Milwaukee, Wis. Filed May 19, 1930.

HIGHROCK

For Eggs and Butter.
Claims use since Feb. 15, 1930.

Ser. No. 301,977. MCDERMONT AND WALL, INC., Riverside, Calif. Filed May 31, 1930.

Red Bow

For Fresh Citrus Fruits.
Claims use since 1912.

Ser. No. 302,007. PENRYN FRUIT CO., Penryn, Calif. Filed May 31, 1930.

WESTSIDE

For Fresh Deciduous Fruits.
Claims use since June 1, 1924.

Ser. No. 302,730. GRENNAN BAKERIES INC., Chicago, Ill. Filed June 23, 1930.

CECIL and SALLY

For Cake.
Claims use since June 2, 1930.

Ser. No. 303,455. NICK WARISSE BAKING COMPANY, Louisville, Ky. Filed June 12, 1930.

BO-KAY BREAD

No claim is made to the word "Bread" apart from the mark as shown.
For Bread.
Claims use since Feb. 13, 1930.

Ser. No. 304,338. MIDDLESBORO MILLING COMPANY, Middlesboro, Ky. Filed Aug. 7, 1930.

WHITE CROWN

For Wheat Flour.
Claims use since 1923.

Ser. No. 304,659. GRAVES-TURNER MANUFACTURING COMPANY, Atlanta, Ga. Filed Aug. 15, 1930.



BLACK PIG

For Cakes and Candies.
Claims use since May 28, 1930.

Ser. No. 304,725. CLARENCE F. HUTCHES, San Antonio, Tex. Filed Aug. 18, 1930.



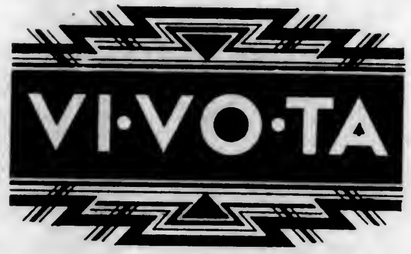
No claim is made to the words "Nut," "Pecans," and "Brand," apart from the mark as shown in the drawing.
For Pecans in Their Natural State.
Claims use since Oct. 15, 1928.

Ser. No. 304,733. NORTH DAKOTA MILL AND ELEVATOR ASSOCIATION, doing business as State Mill and Elevator, Grand Forks, N. Dak. Filed Aug. 18, 1930.



For Feeds—to wit, Pure Spring-Wheat Bran, Standard Middlings, Flour Middlings, and Mixed Feed.
Claims use since October, 1922.

Ser. No. 304,756. EET-RITE PRODUCTS COMPANY, Fort Washington, Pa. Filed Aug. 19, 1930.



For Compound of Grains, Fruits, Nuts, and Vegetables Used as a Food to Eat, and a Compound of Grains, Fruits, Nuts, and Vegetables Used for Making a Food Drink.
Claims use since June 30, 1930.

Ser. No. 304,758. EET-RITE PRODUCTS COMPANY, Fort Washington, Pa. Filed Aug. 19, 1930.

VI-VO-TA

For Compound of Grains, Fruits, Nuts, and Vegetables Used as a Food to Eat, and a Compound of Grains, Fruits, Nuts, and Vegetables Used for Making a Food Drink.
Claims use since June 30, 1930.

Ser. No. 304,778. MCILHENNY COMPANY, New Iberia, La. Filed Aug. 19, 1930.



No claim is made for the representation of a carton, the representation of a bottle, or to the wording appearing on the drawing, with the exception of the word "Tabasco" and the applicant's name, which are specifically claimed. Applicant is the owner of registration No. 223,310, Feb. 1, 1927.
For Pepper Sauce.
Claims use since Aug. 1, 1930.

Ser. No. 304,804. A. W. FEY, Hazleton, Pa. Filed Aug. 20, 1930.

SAL-O-NAY

For Mayonnaise.
Claims use since Aug. 8, 1930.

Ser. No. 305,034. A. B. CLIFF, doing business as Racing Teal Ranch, Pasadena and Thermal, Calif. Filed Aug. 26, 1930.

DESERT SUN

For Fresh Citrus Fruits, Fresh Dates, Fresh Grapes.
Claims use since July 11, 1930.

Ser. No. 305,037. ROBERT H. DART, Sacramento, Calif. Filed Aug. 26, 1930.

DARTLAND

For Fresh Citrus Fruits, Fresh Deciduous Fruits, Fresh Melons—Namely, Cantaloupes, Honeydew Melons.
Claims use since August, 1917, on fresh grapes, and since Aug. 1, 1929, on fresh deciduous fruits, fresh melons, fresh cantaloupes.

Ser. No. 305,142. RUBY CANNING CO., Ruby, S. C. Filed Aug. 29, 1930.

Lord Chesterfield

For Canned Fruits, Vegetables, and Jams.
Claims use since Feb. 14, 1930.

Ser. No. 305,236. MUTUAL RICE CO. INC., New York, N. Y. Filed Sept. 2, 1930.



The lining on the drawing is to indicate the color red. In translation the words "Drei Zibelach" mean "three sevens."
For Rice, Dried Lentils, Pea Beans, Marrow Beans, Lima Beans, Baby Lima Beans, Roman Beans, Red Kidney Beans, White Kidney Beans, Black Turtle Beans, Black-Eyed Beans, Green Split Peas, Yellow Split Peas, Whole Green Peas, and Chic Peas, Fine Barley Put Up in Jute Bags and Paper Cartons for Domestic Use in the Cooking of Food Such as Soups or Vegetables, Coarse Barley.
Claims use since July 1, 1930.

Ser. No. 305,286. OMAHA COLD STORAGE COMPANY, Omaha, Nebr. Filed Sept. 8, 1930.

West Shore

For Eggs.
Claims use since 1929.

Ser. No. 305,298. VAL BLATZ BREWING COMPANY, Milwaukee, Wis. Filed Sept. 3, 1930.

BIAŁY ORZEŁ

For Malt Syrup.
Claims use since Aug. 9, 1930.

Ser. No. 305,358. CARL HOLFELDER, Nuremberg, Germany. Filed Sept. 5, 1930.



For Fresh and Preserved Sausage.
Claims use since 1913.

Ser. No. 305,412. CHARLES E. MUELLER, doing business as Iowa Chemical Company, Cedar Rapids, Iowa. Filed Sept. 6, 1930.

Fermolac

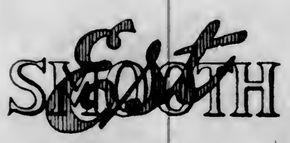
For Food Preparation to be Added to Animal Food for the Purpose of Aiding Digestion.
Claims use since June 28, 1930.

Ser. No. 305,473. AMERICAN IDEAL FRUIT PRODUCTS CO., New Haven, Conn. Filed Sept. 9, 1930.



The figure of the girl being fanciful and the drawing being lined for shading purposes only.
For Jelly-Powder Concentrate.
Claims use since Aug. 9, 1930.

Ser. No. 305,763. RIES & PORTER CO. INC., doing business as Ries & Porter Co., Chicago, Ill. Filed Sept. 16, 1930.



The drawing is lined to indicate the color red.
For Vinegars, Pickles, Preserved Olives, Olive Oil, Cottonseed Oil, Fruit and Berry Preserves, Fruit and Berry Jellies, Food-Flavoring Extracts, Strained Honey, Prepared Mustard, Peanut Butter, Pickled Peppers, and Spices.
Claims use since Jan. 1, 1930.

Ser. No. 305,789. PALMER HOUSE COMPANY, Chicago, Ill. Filed Sept. 17, 1930.



For Coffee and Olives.
Claims use since July, 1928.

Ser. No. 305,917. JOSEPH P. LEINDORF, New York, N. Y. Filed Sept. 19, 1930.



No claim is made herein to the words "Health Food" apart from the mark as shown on the drawing.
For Foods for Birds.
Claims use since Aug. 1, 1930.

Ser. No. 306,261. CONSOLIDATED TEA COMPANY, INC., New York, N. Y. Filed Oct. 1, 1930.

The translation of the word in the Russian language is Sprottes. Applicant hereby disclaims all reading matter with the exception of the words "White Lilac" appearing on the drawing together with the outline of the label apart from the mark as shown.
For Canned Fish—Namely, Sprottes.
Claims use since Aug. 30, 1929.

Ser. No. 306,267. HULMAN & CO., Terre Haute, Ind. Filed Oct. 1, 1930. Under 10-year proviso.



For Tea, Coffee, and Cocoa.
Claims use since Jan. 1, 1882.

Ser. No. 306,495. MORRIS HELLER, doing business as The Venice Importing Co., Brooklyn, N. Y. Filed Oct. 7, 1930.



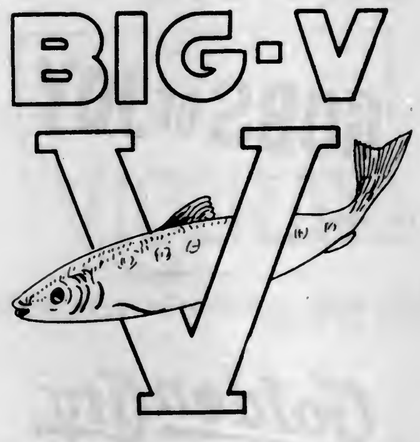
For Olive Oil.
Claims use since July 10, 1930.

Ser. No. 306,531. HAZLETON BAKING COMPANY, Hazleton, Pa. Filed Oct. 8, 1930.



For Doughnuts and Cookies.
Claims use since March, 1916.

Ser. No. 306,542. M. A. REX, doing business as California Sea Food Company, San Francisco, Calif. Filed Oct. 8, 1930.



The pictorial representation of the goods shown on the drawing is disclaimed.
For Canned Sardines.
Claims use since April, 1930.

Ser. No. 306,635. THOMPSON'S MALTED MILK CO., INC., Waukesha, Wis. Filed Oct. 10, 1930.



Applicant disclaims exclusive use of the words "Double Malted," "Malted Milk," "Crisps," and "Chocolate Coated," except and apart from the mark as shown on the accompanying drawing.
For Confectionery, i. e., a Round Ball of Malted Milk, Coated with Chocolate.
Claims use since June 24, 1930.

Ser. No. 306,844. TAYLOR & CALDWELL, INC., Walkerton, Va. Filed Oct. 16, 1930.

No claim is made to the word "Sweet" apart from the mark as shown.
For Canned Lima Beans.
Claims use since August, 1930.

Ser. No. 306,943. CRISPO & SONS, INC., New York, N. Y. Filed Oct. 20, 1930.



For Fresh Fruits—Namely, Fresh Citrus and Deciduous; Fresh Vegetables, Fresh Melons—Namely, Cantaloupes, Honeydew, Honeyball, Casaba.
Claims use since November, 1929.

Ser. No. 306,944. THEO. H. DAVIES & CO. LTD., Honolulu, Territory of Hawaii, and San Francisco, Calif. Filed Oct. 20, 1930.

SUNNY SCENE

For Canned Vegetables—Namely, Canned Peas.
Claims use since Aug. 10, 1930.

Ser. No. 306,952. E. F. GRELL & CO., INC., Seattle, Wash. Filed Oct. 20, 1930.

GRELLCO

For Fresh Deciduous Fruits.
Claims use since August, 1929.

Ser. No. 306,953. JOSEPHINE ELLEN HAWORTH, doing business as Fresh Fruit Products, Chicago, Ill. Filed Oct. 20, 1930.



For Fruit Products Consisting of Crushed-Lime Gelatine Dessert, Crushed-Orange Gelatine Deasert, Crushed-Strawberry Gelatine Dessert, Crushed-Raspberry Gelatine Dessert, Crushed-Lemon Gelatine Dessert, Crushed-Pineapple Gelatine Dessert, and Crushed-Cherry Gelatine Dessert.
Claims use since July 1, 1930.

Ser. No. 306,973. V. R. SMITH, doing business as V. R. Smith Olive Co., Lindsay, Calif. Filed Oct. 20, 1930.



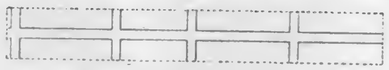
For Canned Olives.
Claims use since Mar. 17, 1930.

Ser. No. 306,981. VAN CAMP SEA FOOD CO. INC., Terminal Island, Calif. Filed Oct. 20, 1930.



The dotted lines shown in the drawing indicate the outline of a label and no trade-mark rights are claimed therein. The vertical lining indicates the color red.
For Canned Fish.
Claims use since Feb. 1, 1917.

Ser. No. 306,982. VAN CAMP SEA FOOD CO. INC., Terminal Island, Calif. Filed Oct. 20, 1930.



The dotted lines appearing in the drawing indicate only the outline of the label and no trade-mark rights are claimed therein.
For Canned Fish.
Claims use since Feb. 1, 1917.

Ser. No. 307,102. MEAD JOHNSON & COMPANY, Evansville, Ind. Filed Oct. 23, 1930.

B

The drawing is lined for red.
For Specially-Prepared Food in Powdered Form Including Vitamin B, for Infants and Invalids.
Claims use since Mar. 15, 1930.

Ser. No. 307,199. CARDINET CANDY COMPANY, INC., Oakland, Calif. Filed Oct. 27, 1930.

GOBS OF JOY

For Candy.
Claims use since Oct. 8, 1930.

Ser. No. 307,201. R. E. COTTER CO., San Francisco, Calif. Filed Oct. 27, 1930.

Golden City

For Canned Fruits.
Claims use since July 15, 1930.

Ser. No. 307,202. B FERBER, Los Angeles, Calif. Filed Oct. 27, 1930.



For Wafers.
Claims use since July 2, 1930.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 306,111. TAYLOR & WILLIAMS, INCORPORATED, Louisville, Ky. Filed Sept. 26, 1930. Under 10-year proviso.



For Whiskey.
Claims use since November, 1878.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 260,602. VIO-RAY COMPANY, Kansas City, Mo. Filed Jan. 24, 1928.

VIO-RAY

For Article of Manufacture Comprising a Fabric Base of Either Wire or Cloth Impregnated with or to Which Has Been Applied a Waterproof and Transparent Material, Said Article Being Used as a Substitute for or in the Place of Ordinary Window Glass.
Claims use since Aug. 1, 1925.

Ser. No. 260,603. VIO-RAY COMPANY, Kansas City, Mo. Filed Jan. 24, 1928.

VIO-RAY GLASS

For Article of Manufacture Comprising a Fabric Base of Either Wire or Cloth Impregnated or Covered with a Thin Transparent or Translucent Elastic Body or Film Firmly Adhering to Said Base Material, Said Article Being Used as a Substitute for or in the Place of Ordinary Window Glass.
Claims use since Aug. 1, 1926.

Ser. No. 260,606. VIO-RAY COMPANY, Kansas City, Mo. Filed Jan. 24, 1928.

VIO-RAY GLASS FABRIC

The term "Fabric" is disclaimed apart from the mark shown in the drawing.
For Article of Manufacture Comprising a Cloth Fabric Base Impregnated with or to Which Has Been Applied a Waterproof and Transparent Material, Said Article Being Used as a Substitute for or in the Place of Ordinary Window Glass.
Claims use since Aug. 1, 1925.

Ser. No. 304,796. BIDDLE PURCHASING CO., New York, N. Y. Filed Aug. 20, 1930.

RED LINE

For Fly Coils and Fly Ribbons.
Claims use since April, 1929.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

DECEMBER 2, 1930

277,861. BOUILLON CUBES. THE MAGGI CO., Kemptal, Switzerland.
Filed August 7, 1930. Serial No. 304,335. PUBLISHED SEPTEMBER 16, 1930. Class 46.

277,862. COFFEE. LEE & CADY, Detroit, Mich.
Filed August 4, 1930. Serial No. 304,203. PUBLISHED SEPTEMBER 16, 1930. Class 46.

277,863. CANDY. WILLIAMSON CANDY CO., Chicago, Ill.
Filed August 2, 1930. Serial No. 304,174. PUBLISHED SEPTEMBER 16, 1930. Class 46.

277,864. CANDY. WILLIAMSON CANDY CO., Chicago, Ill.
Filed August 2, 1930. Serial No. 304,173. PUBLISHED SEPTEMBER 23, 1930. Class 46.

277,865. DRIED FRUITS—NAMELY, PRUNES. F. A. SCHNEIDER, doing business as Warren Dried Fruit Co., San Jose, Calif.
Filed August 2, 1930. Serial No. 304,164. PUBLISHED SEPTEMBER 16, 1930. Class 46.

277,866. FRESH CITRUS FRUITS, FRESH GRAPES, FRESH DATES. DR. HARRY W. FORBES, doing business as Forbes Farms, Thermal, Calif.
Filed August 2, 1930. Serial No. 304,133. PUBLISHED SEPTEMBER 16, 1930. Class 46.

277,867. PARCHED SWEET CORN. WORLD'S PRODUCTS COMPANY, Spencer, Ind.
Filed July 31, 1930. Serial No. 304,080. PUBLISHED SEPTEMBER 23, 1930. Class 46.

277,868. PARCHED SWEET CORN. WORLD'S PRODUCTS COMPANY, Spencer, Ind.
Filed July 30, 1930. Serial No. 304,028. PUBLISHED SEPTEMBER 23, 1930. Class 46.

277,869. ROASTED AND GRANULATED COFFEE. BROWNING & BAINES, INC., Washington, D. C.
Filed July 29, 1930. Serial No. 303,948. PUBLISHED SEPTEMBER 16, 1930. Class 46.

277,870. CANDY. INDEPENDENT DRUGGISTS' ALLIANCE DISTRIBUTING CO., Chicago, Ill.
Filed July 28, 1930. Serial No. 303,905. PUBLISHED SEPTEMBER 23, 1930. Class 46.

277,871. COFFEE. GEORGE J. HOWE COMPANY, Grove City, Pa.
Filed July 23, 1930. Serial No. 303,746. PUBLISHED SEPTEMBER 16, 1930. Class 46.

277,872. CANDY—NAMELY, BAR CANDY. THE CURTISS CANDY COMPANY, Chicago, Ill.
Filed July 19, 1930. Serial No. 303,631. PUBLISHED SEPTEMBER 16, 1930. Class 46.

277,873. FRESH CITRUS FRUITS, FRESH DECIDUOUS FRUITS, AND FRESH VEGETABLES. SIMONS, SHUTTLEWORTH & FRENCH COMPANY, Sacramento, Calif., by change of name Simons & French Company, Incorporated.
Filed July 16, 1930. Serial No. 303,552. PUBLISHED SEPTEMBER 16, 1930. Class 46.

277,874. COFFEE. R. S. GEHLERT & CO., Detroit, Mich.
Filed July 14, 1930. Serial No. 303,473. PUBLISHED SEPTEMBER 16, 1930. Class 46.

277,875. CANDY. CONSOLIDATED TEA COMPANY, INC., New York, N. Y.
Filed July 11, 1930. Serial No. 303,365. PUBLISHED SEPTEMBER 16, 1930. Class 46.

277,876. NUTS IN THEIR NATURAL STATE. CONSOLIDATED PECAN SALES COMPANY, Albany, Ga.
Filed July 2, 1930. Serial No. 303,047. PUBLISHED SEPTEMBER 16, 1930. Class 46.

277,877. CANDY. THE REDEL CANDY CORPORATION, Milwaukee, Wis.
Filed June 23, 1930. Serial No. 302,747. PUBLISHED SEPTEMBER 23, 1930. Class 46.

277,878. OIL SHORTENING. GLOBE GRAIN & MILLING CO., Los Angeles, Calif.
Filed June 16, 1930. Serial No. 302,464. PUBLISHED SEPTEMBER 23, 1930. Class 46.

277,879. GREEN COFFEE. WESTFELDT BROTHERS, New Orleans, La.
Filed June 14, 1930. Serial No. 302,449. PUBLISHED SEPTEMBER 23, 1930. Class 46.

277,880. CANDY. HERCHENRODER CANDY COMPANY, St. Joseph, Mo.
Filed May 26, 1930. Serial No. 301,265. PUBLISHED SEPTEMBER 16, 1930. Class 46.

277,881. CISTERN RINGS, CISTERN COVERS, WELL CASINGS, AND FIXED HOG WATERERS. DEMPSTER MILL MANUFACTURING COMPANY, Beatrice, Nebr.
Filed July 14, 1930. Serial No. 303,468. PUBLISHED SEPTEMBER 16, 1930. Class 13.

277,882. ELECTRIC FANS. THE AMERICAN PROPELLER COMPANY, Baltimore, Md.
Filed July 8, 1930. Serial No. 303,243. PUBLISHED SEPTEMBER 16, 1930. Class 21.

277,883. ELECTRICAL INSULATING COMPOUNDS IN SHEET FORM AND IN OTHER FORMS MADE UP FROM THE SHEETS. MICA INSULATOR COMPANY, New York and Schenectady, N. Y.
Filed July 2, 1930. Serial No. 303,065. PUBLISHED SEPTEMBER 16, 1930. Class 21.

277,884. RADIO RECEIVING SETS. THE GRAY & DANIELSON MFG. CO., San Francisco, Calif.
Filed July 1, 1930. Serial No. 303,024. PUBLISHED SEPTEMBER 16, 1930. Class 21.

277,885. PORTABLE TABLE-MODEL IRONER. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed June 16, 1930. Serial No. 302,488. PUBLISHED SEPTEMBER 16, 1930. Class 24.

277,886. MONTHLY PUBLICATION. MARY ANN SABNES, doing business as Derma Way Beauty School, Detroit, Mich.
Filed May 31, 1930. Serial No. 302,033. PUBLISHED SEPTEMBER 16, 1930. Class 38.

277,887. PAPER AND STATIONERY — NAMELY, DRAWING PAPER, AS OIL DRAWING PAPER, ORDINARY DRAWING PAPER, CARDBOARD. PRAKTISCHE MASCHINEN, G. M. B. H., Berlin, Germany.
Filed May 29, 1930. Serial No. 301,695. PUBLISHED SEPTEMBER 23, 1930. Class 37.

277,888. SCRIM IN THE PIECE AND MADE UP INTO CURTAINS. BOOTT MILLS, Lowell, Mass.
Filed May 29, 1930. Serial No. 301,562. PUBLISHED AUGUST 19, 1930. Class 42.

277,889. A MONTHLY PERIODICAL. PAUL P. TRAVERS, New York, N. Y.
Filed August 9, 1930. Serial No. 304,433. PUBLISHED SEPTEMBER 23, 1930. Class 38.

277,890. RADIO RECEIVING SETS, VACUUM OR ELECTRON TUBES, AND RADIOSPEAKERS. COLUMBIA RADIO CORPORATION, Chicago, Ill.
Filed August 7, 1930. Serial No. 304,315. PUBLISHED SEPTEMBER 16, 1930. Class 21.

CARNEGIE LIBRARY OF ATLANTA

277,891. RIVETS. BENDIX SERVICE CORPORATION, South Bend, Ind.
Filed August 6, 1930. Serial No. 304,270. PUBLISHED SEPTEMBER 23, 1930. Class 13.

277,892. RADIOTUBES AND TELEVISION TUBES. F. A. SCHILLER, INC., Irvington, N. J.
Filed August 4, 1930. Serial No. 304,215. PUBLISHED SEPTEMBER 16, 1930. Class 21.

277,893. MONTHLY PUBLICATIONS. THE TEXAS COMPANY, Wilmington, Del., and New York, N. Y.
Filed August 2, 1930. Serial No. 304,166. PUBLISHED SEPTEMBER 23, 1930. Class 38.

277,894. WRITING PAPER AND ENVELOPES. MONTAG BROS. INC., Atlanta, Ga.
Filed August 2, 1930. Serial No. 304,157. PUBLISHED SEPTEMBER 16, 1930. Class 37.

277,895. TRANSPARENT WRAPPING PAPER. RIEGEL PAPER CORPORATION, Riegelsville, N. J., and New York, N. Y.
Filed August 1, 1930. Serial No. 304,107. PUBLISHED SEPTEMBER 16, 1930. Class 37.

277,896. ANTIGLARE SHIELDS. OTTO W. MUENSTER, La Crosse, Wis.
Filed August 1, 1930. Serial No. 304,104. PUBLISHED SEPTEMBER 23, 1930. Class 19.

277,897. WEEKLY BUSINESS NEWSPAPER. THE PENTON PUBLISHING COMPANY, Cleveland, Ohio.
Filed July 31, 1930. Serial No. 304,088. PUBLISHED SEPTEMBER 16, 1930. Class 38.

277,898. WAX-COATED PAPER. THE COATED PAPER PRODUCTS COMPANY, Minerva, Ohio.
Filed July 31, 1930. Serial No. 304,039. PUBLISHED SEPTEMBER 16, 1930. Class 37.

277,899. LEAD PENCILS, COLORED PENCILS, INDELIBLE PENCILS, COPYING PENCILS, PENCIL LEADS, AND COPYING LEADS AND STICKS, SLATE PENCILS; BLACKBOARD, DRAWING, SIGN, AND MARKING PENCILS; COMBINATION PENS AND PENCILS, RUBBER PENCIL, PENHOLDERS, FOUNTAIN PENS, MECHANICAL PENCILS, AND FILLERS FOR SAME. J. S. STAEDTLER, INC., New York, N. Y.
Filed July 28, 1930. Serial No. 303,935. PUBLISHED SEPTEMBER 16, 1930. Class 37.

277,900. STORAGE BATTERIES. WHITE STAR REFINING COMPANY, Detroit, Mich.
Filed July 28, 1930. Serial No. 303,930. PUBLISHED SEPTEMBER 16, 1930. Class 21.

277,901. CATALOGUES PUBLISHED PERIODICALLY. NATIONAL BELLAS HESS CO., INC., New York, N. Y.
Filed July 28, 1930. Serial No. 303,918. PUBLISHED SEPTEMBER 16, 1930. Class 38.

277,902. CHILDREN'S RUBBER PLAY BALLS. INDEPENDENT DRUGGISTS' ALLIANCE DISTRIBUTING CO., Chicago, Ill.
Filed July 28, 1930. Serial No. 303,897. PUBLISHED SEPTEMBER 23, 1930. Class 22.

277,903. DOOR FASTS, LAVATORY LATCHES, GATE LATCHES, TRANSOM CATCHES, CREMONE BOLTS, BARREL BOLTS, NECKED BOLTS, CUPBOARD BOLTS, CHAIN BOLTS, FOOT BOLTS, FLUSH BOLTS, DOOR BOLTS, AND LAVATORY BOLTS. THE YALE AND TOWNE MFG. CO., Stamford, Conn.
Filed July 24, 1930. Serial No. 303,792. PUBLISHED SEPTEMBER 16, 1930. Class 25.

277,904. DISCOUNT OR TRADING STAMPS. HELLO WORLD STAMP CORPORATION, St. Louis, Mo.
Filed July 24, 1930. Serial No. 303,768. PUBLISHED SEPTEMBER 23, 1930. Class 38.

277,905. WATCH BRACELETS, WATCH STRAPS; WATCH ATTACHMENTS — NAMELY, WATCH CHAINS, FOBS, AND CHARMS; NECK CHAINS, BRACELETS, SCARF PINS, FINGER RINGS, AND BELT BUCKLES AND EAR AND HAIR ORNAMENTS MADE OF OR PLATED WITH PRECIOUS METAL. PONTIAC COMPANY, Newark, N. J.
Filed July 22, 1930. Serial No. 303,725. PUBLISHED SEPTEMBER 16, 1930. Class 28.

277,906. STORAGE BATTERIES. MONARK BATTERY COMPANY, INC., Chicago, Ill.
Filed July 21, 1930. Serial No. 303,696. PUBLISHED SEPTEMBER 16, 1930. Class 21.

277,907. METAL DRAINS. G. WALTON BUSCH & SONS New York, N. Y.
Filed July 21, 1930. Serial No. 303,686. PUBLISHED SEPTEMBER 23, 1930. Class 13.

277,908. ELECTRIC CONDENSERS. SPRAGUE SPECIALTIES COMPANY, Quincy, Mass.
Filed July 19, 1930. Serial No. 303,662. PUBLISHED SEPTEMBER 16, 1930. Class 21.

277,909. LADIES' HAND BAGS. MAX BRILL'S SONS, INC., New York, N. Y.
Filed July 23, 1930. Serial No. 303,738. PUBLISHED SEPTEMBER 16, 1930. Class 3.

277,910. WHEAT FLOUR. ROBERT EMMETT CLARK, doing business as R. E. Clark Milling Company, Chillicothe, Ohio.
Filed July 19, 1930. Serial No. 303,628. PUBLISHED SEPTEMBER 16, 1930. Class 46.

277,911. CHEESE-AND-CRACKER STICKS. ROTHLISBERGER & CO. INC., New York, N. Y.
Filed July 15, 1930. Serial No. 303,515. PUBLISHED SEPTEMBER 16, 1930. Class 46.

277,912. WHEAT FLOUR. HUTCHINSON & JAQUITH, INC., New York, N. Y.
Filed July 12, 1930. Serial No. 303,442. PUBLISHED SEPTEMBER 16, 1930. Class 46.

277,913. CHEESE. E. CERRUTI, New York, N. Y.
Filed June 26, 1930. Serial No. 302,852. PUBLISHED SEPTEMBER 16, 1930. Class 46.

277,914. PELTS. AMERICAN NATIONAL FOX AND FUR BREEDERS ASSOCIATION, Minneapolis, Minn.
Filed June 18, 1930. Serial No. 302,522. PUBLISHED SEPTEMBER 16, 1930. Class 1.

277,915. SOLUTION FOR GLUING LEATHER ON LEATHER. HERMANN HAGEMEIER, doing business as RUDOL-FABRIK HERMANN HAGEMEIER, Leipzig, Germany.
Filed June 17, 1930. Serial No. 302,508. PUBLISHED SEPTEMBER 16, 1930. Class 5.

277,916. DIATOMACEOUS EARTH MATERIALS. THE DICALITE COMPANY, Torrance, Calif.
Filed June 2, 1930. Serial No. 302,138. PUBLISHED SEPTEMBER 23, 1930. Class 1.

277,917. AN EGG-PRESERVING COMPOSITION. CLARA C. ALEXANDER, doing business as C. C. Alexander Mfg. Co., Prince George, British Columbia, Canada.
Filed May 31, 1930. Serial No. 301,770. PUBLISHED SEPTEMBER 23, 1930. Class 6.

277,918. PROPRIETARY MEDICINE TO RELIEVE COLDS, HEADACHES, PERIODIC PAINS, AND TO REDUCE FEVER. OXYBORATE COMPANY, INC., Buffalo, N. Y.
Filed May 24, 1930. Serial No. 301,201. PUBLISHED SEPTEMBER 16, 1930. Class 6.

277,919. SALVE FOR TREATING BURNS, SCALDS, BRUISES, CUTS, CHAFING, AND SUNBURN AND HEALING WOUNDS. PHILIP JACOBS, Philadelphia, Pa.
Filed May 23, 1930. Serial No. 301,111. PUBLISHED SEPTEMBER 16, 1930. Class 6.

277,920. VAPORIZING DUST AND DISINFECTANT. FARMAIDE PRODUCTS CO., Lincoln, Nebr.
Filed May 22, 1930. Serial No. 301,020. PUBLISHED SEPTEMBER 9, 1930. Class 6.

277,921. GOODS MADE OF LEATHER OR FABRIC OR COMBINATIONS THEREOF — NAMELY, EMPTY COMPACT CASES, BILL FOLDS, PORTFOLIOS, POCKETBOOKS, PURSES, AND KEY CASES. CLARENCE J. BUTTERFIELD, Van Nuys, Calif.
Filed August 5, 1930. Serial No. 304,232. PUBLISHED SEPTEMBER 16, 1930. Class 3.

277,922. GOODS MADE OF LEATHER OR FABRIC OR COMBINATIONS THEREOF — NAMELY, EMPTY COMPACT CASES, BILL FOLDS, PORTFOLIOS, POCKETBOOKS, PURSES, AND KEY CASES. CLARENCE J. BUTTERFIELD, Van Nuys, Calif.
Filed August 5, 1930. Serial No. 304,231. PUBLISHED SEPTEMBER 16, 1930. Class 3.

277,923. GOODS MADE OF LEATHER OR FABRIC OR COMBINATIONS THEREOF — NAMELY, EMPTY COMPACT CASES, BILL FOLDS, PORTFOLIOS, POCKETBOOKS, PURSES, AND KEY CASES. CLARENCE J. BUTTERFIELD, Van Nuys, Calif.
Filed August 5, 1930. Serial No. 304,230. PUBLISHED SEPTEMBER 16, 1930. Class 3.

277,924. LEATHER. BEARDMORE & Co., Toronto, Ontario, Canada.
Filed August 1, 1930. Serial No. 304,091. PUBLISHED SEPTEMBER 16, 1930. Class 1.

277,925. COAL. FARMERS ELEVATOR SERVICE COMPANY, doing business as Farmers Elevator Co., Ralston, Iowa.
Filed July 26, 1930. Serial No. 303,846. PUBLISHED SEPTEMBER 23, 1930. Class 1.

277,926. WHEAT FLOUR AND FEED FOR STOCK AND POULTRY. FARMERS ELEVATOR SERVICE COMPANY, doing business as Farmers Elevator Co., Ralston, Iowa.
Filed July 26, 1930. Serial No. 303,844. PUBLISHED SEPTEMBER 23, 1930. Class 46.

277,927. WHEAT FLOUR. C. B. RAGLAND COMPANY, Nashville, Tenn.
Filed July 24, 1930. Serial No. 303,782. PUBLISHED SEPTEMBER 16, 1930. Class 46.

277,928. WHEAT FLOUR. C. B. RAGLAND COMPANY, also doing business as The Flour Distributing Company, Nashville, Tenn.
Filed July 24, 1930. Serial No. 303,781. PUBLISHED SEPTEMBER 16, 1930. Class 46.

277,929. LIQUID DISINFECTANT DEODORIZER USED FOR GENERAL DISINFECTING, REMOVAL OF ORGANIC ODORS, INSECT BITES, SUNBURN, POISON IVY, ITCH, RINGWORM, BEDBUGS, BODY LICE, AND FLEAS. ODORLESS DISINFECTANTS, INC., New York, N. Y.
Filed July 31, 1930. Serial No. 304,062. PUBLISHED SEPTEMBER 23, 1930. Class 6.

277,930. MEDICINAL PREPARATION TO BE USED IN THE TREATMENT OF INSOMNIA AND EPILEPTIC ATTACKS. THE CALCO CHEMICAL COMPANY, INC., Bound Brook, N. J.
Filed July 30, 1930. Serial No. 303,997. PUBLISHED SEPTEMBER 9, 1930. Class 6.

277,931. MEDICINAL PREPARATION TO BE USED IN THE TREATMENT OF RHEUMATIC AND JOINT INFECTIONS, MUSCULAR AND JOINT PAINS, AND COLDS. THE CALCO CHEMICAL COMPANY, INC., Bound Brook, N. J.
Filed July 30, 1930. Serial No. 303,996. PUBLISHED SEPTEMBER 9, 1930. Class 6.

277,932. MEDICINAL PREPARATION TO BE USED IN THE TREATMENT OF HEADACHE AND SINUSITIS. THE CALCO CHEMICAL COMPANY, INC., Bound Brook, N. J.
Filed July 30, 1930. Serial No. 303,995. PUBLISHED SEPTEMBER 9, 1930. Class 6.

277,933. MEDICINAL PREPARATION TO BE USED IN THE TREATMENT OF RHEUMATIC AND JOINT INFECTIONS, MUSCULAR AND JOINT PAINS, AND COLDS. THE CALCO CHEMICAL COMPANY, INC., Bound Brook, N. J.
Filed July 30, 1930. Serial No. 303,994. PUBLISHED SEPTEMBER 9, 1930. Class 6.

277,934. MEDICINAL PREPARATION TO BE USED IN THE TREATMENT OF RHEUMATIC AND JOINT INFECTIONS, MUSCULAR AND JOINT PAINS, COLDS, AND FEVER. THE CALCO CHEMICAL COMPANY, INC., Bound Brook, N. J.
Filed July 30, 1930. Serial No. 303,993. PUBLISHED SEPTEMBER 16, 1930. Class 6.

277,935. VARIOUS CHEMICAL PREPARATIONS FOR USE IN DYEING AND FINISHING AND PREPARING FOR DYEING AND FINISHING TEXTILE MATERIALS AND TEXTILE FABRICS. WATSON-PARK COMPANY, Boston, Mass.
Filed July 28, 1930. Serial No. 303,928. PUBLISHED SEPTEMBER 16, 1930. Class 6.

277,936. SALT. MULKEY SALT COMPANY, Detroit, Mich.
Filed July 28, 1930. Serial No. 303,917. PUBLISHED SEPTEMBER 16, 1930. Class 6.

277,937. CHEMICAL DYE AIDS—NAMELY, MOISTENING PREPARATIONS, THREAD AND FIBRE PROTECTING PREPARATIONS, THREAD AND FIBRE PENETRATING PREPARATIONS, SMOOTHING PREPARATIONS, TANNING PREPARATIONS, AND BLEACHING PREPARATIONS. H. TH. BÖHME A. G., Chemnitz, Germany.
Filed July 19, 1930. Serial No. 303,626. PUBLISHED SEPTEMBER 16, 1930. Class 6.

277,938. DYES AND DYESTUFFS. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed July 10, 1930. Serial No. 303,325. PUBLISHED SEPTEMBER 9, 1930. Class 6.

277,939. INTERMEDIATE FOR DYEING PROCESSES. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed July 10, 1930. Serial No. 303,324. PUBLISHED SEPTEMBER 9, 1930. Class 6.

277,940. GENERAL TONIC AND BLOOD PURIFIER. ANASTASIOS G. FAGRAS, doing business as Almotone Chemical Company, Colorado Springs, Colo.
Filed July 7, 1930. Serial No. 303,174. PUBLISHED SEPTEMBER 16, 1930. Class 6.

277,941. DYES AND DYESTUFFS. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed July 7, 1930. Serial No. 303,171. PUBLISHED SEPTEMBER 9, 1930. Class 6.

277,942. RUBBING OINTMENT FOR THE TREATMENT OF LUMBAGO, NEURALGIA, RHEUMATISM, SWELLINGS, INFLAMMATION, COMMON SORE THROATS, COLDS IN CHESTS, TENDER FEET, SPRAINS, BRUISES, CROUP, COLDS, PNEUMONIA, CATARRH, TONSILITIS, BRONCHITIS, WHOOPING COUGH, ASTHMA, BURNS, STINGS, ECZEMA, ITCHING HUMORS, ITCHING PILES, BOILS, AND BODY PAINS. MEVOL CHEMICAL COMPANY, Baltimore, Md.
Filed July 1, 1930. Serial No. 303,032. PUBLISHED SEPTEMBER 16, 1930. Class 6.

277,943. SOLDERING SOLUTION. VITA HABIF, Detroit, Mich.
Filed July 1, 1930. Serial No. 303,026. PUBLISHED SEPTEMBER 16, 1930. Class 6.

277,944. LIQUID GENERAL TONIC. BACH LABORATORIES, INC., Newark, N. J.
Filed June 26, 1930. Serial No. 302,848. PUBLISHED SEPTEMBER 9, 1930. Class 6.

277,945. CLEANING COMPOUND FOR AUTOMOTIVE COOLING SYSTEMS. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed June 21, 1930. Serial No. 302,676. PUBLISHED SEPTEMBER 16, 1930. Class 6.

277,946. MEDICINAL PREPARATIONS FOR THE TREATMENT OF DIABETES, THE KIDNEYS, EPILEPSY, AND THE EYES. GIULIO M. CARBONI, doing business as G. M. Carboni & Co., Rochester, N. Y.
Filed June 20, 1930. Serial No. 302,625. PUBLISHED SEPTEMBER 9, 1930. Class 6.

277,947. DOUCHE POWDERS AND ANTISEPTIC PREPARATIONS. SANI-DOUCHE CO., INC., North Arlington, N. J.
Filed June 14, 1930. Serial No. 302,445. PUBLISHED SEPTEMBER 16, 1930. Class 6.

277,948. PREPARATION FOR HEADACHE, NEURALGIA, RHEUMATISM, EARACHE, AND TOOTHACHE. B. M. DIXON, doing business as B. D. Medicine Co., Pulaski, Va.
Filed May 31, 1930. Serial No. 301,861. PUBLISHED SEPTEMBER 16, 1930. Class 6.

277,949. FOOD-PRESERVING RECEPTACLES FOR REFRIGERATORS IN THE NATURE OF A FOOD AERATOR AND MOISTENER ESPECIALLY ADAPTED TO BE USED IN AUTOMATIC REFRIGERATORS. THE REPUBLIC STAMPING & ENAMELING CO., Canton, Ohio.
Filed June 5, 1930. Serial No. 302,187. PUBLISHED SEPTEMBER 16, 1930. Class 31.

277,950. GOLF BALLS. MILLER & WEST, INC., Coral Gables, Fla.
Filed May 28, 1930. Serial No. 301,487. PUBLISHED SEPTEMBER 23, 1930. Class 22.

277,951. GOLF BALLS. THE HOWARD LUX COMPANY, Cleveland, Ohio.
Filed May 23, 1930. Serial No. 301,108. PUBLISHED SEPTEMBER 16, 1930. Class 22.

277,952. UNITARY VEHICULAR MACHINE FOR MIXING CONCRETE IN TRANSPORT. SWIGERT, HART & YETT, INC., Portland, Oreg.
Filed August 4, 1930. Serial No. 304,222. PUBLISHED SEPTEMBER 16, 1930. Class 23.

277,953. STEEL FILING TRAYS AND CABINETS. THE GLOBE-WERNICKE CO., Norwood, Ohio.
Filed August 4, 1930. Serial No. 304,196. PUBLISHED SEPTEMBER 16, 1930. Class 32.

277,954. RAZOR BLADES. INTERNATIONAL SAFETY RAZOR CORP., Bloomfield, N. J.
Filed August 2, 1930. Serial No. 304,144. PUBLISHED SEPTEMBER 16, 1930. Class 23.

277,955. WRENCHES. WALWORTH COMPANY, Boston, Mass.
Filed July 31, 1930. Serial No. 304,079. PUBLISHED SEPTEMBER 16, 1930. Class 23.

277,956. TABLES FOR HOUSEHOLD AND OFFICE USE. THE KIEL FURNITURE CO., Milwaukee, Wis.
Filed July 28, 1930. Serial No. 303,909. PUBLISHED SEPTEMBER 28, 1930. Class 32.

277,957. FLYCATCHERS. PYRAMIDEN-FLIEGENFÄNGER-FABRIK MAX DAMETZ M. B. H., ZEITZ, Zeitz, Germany.
Filed July 21, 1930. Serial No. 303,700. PUBLISHED SEPTEMBER 16, 1930. Class 50.

277,958. AUTOMOBILE TIRES AND INNER TUBES. KELLY-SPRINGFIELD TIRE COMPANY, New York, N. Y.
Filed July 26, 1930. Serial No. 303,851. PUBLISHED SEPTEMBER 23, 1930. Class 35.

277,959. SKIN OINTMENT FOR THE RELIEF OF ECZEMA, BURNS, CHAFING, COLD SORES, AND SIMILAR SKIN IRRITATIONS. MARGARET JULIA MAAS, Erie, Pa.
Filed July 18, 1930. Serial No. 303,607. PUBLISHED SEPTEMBER 9, 1930. Class 6.

277,960. BISMUTH PREPARATION FOR TREATING SYPHILIS. ABBOTT LABORATORIES, North Chicago, Ill.
Filed July 17, 1930. Serial No. 303,560. PUBLISHED SEPTEMBER 2, 1930. Class 6.

277,961. POWDER, SACHET, BRILLIANTINE, ROUGE, BATH SALTS, FACE CREAMS, POWDER AND ROUGE COMPACTS, LIP STICKS, AND DUSTING POWDER. HIRSCHBERG, SCHUTZ & Co., New York, N. Y.
Filed July 16, 1930. Serial No. 303,535. PUBLISHED SEPTEMBER 9, 1930. Class 6.

277,962. WOOLEN PIECE GOODS AND PILE FABRICS IN THE PIECE. ISADORE GOTTLIEB, doing business as Seminole Textile Co., New York, N. Y.
Filed July 11, 1930. Serial No. 303,374. PUBLISHED SEPTEMBER 9, 1930. Class 42.

277,963. PILE FABRICS IN THE PIECE. E. F. TIMME & SON, New York, N. Y.
Filed July 8, 1930. Serial No. 303,262. PUBLISHED SEPTEMBER 9, 1930. Class 42.

277,964. NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND PREPARATIONS FOR MAKING THE SAME. EDWARD WILLIAM VOELPEL, doing business as Vol-Pel Beverage Company, Clinton, Iowa.
Filed July 2, 1930. Serial No. 303,075. PUBLISHED SEPTEMBER 16, 1930. Class 45.

277,965. BROAD SILKS AND SILK MIXTURES CONSISTING OF SILK AND COTTON, SILK AND WOOL, SILK AND RAYON IN THE PIECE. THE SCHWARZENBACH HUBER CO., New York, N. Y.
Filed July 1, 1930. Serial No. 303,036. PUBLISHED SEPTEMBER 23, 1930. Class 42.

277,966. CANDY, SALTED PEANUTS, AND PEANUT BUTTER. ALLEN & SMITH COMPANY, INC., Richmond, Va.
Filed June 26, 1930. Serial No. 302,846. PUBLISHED SEPTEMBER 2, 1930. Class 46.

277,967. SPRING WATER. VIRGINIA BUFFALO SPRINGS CORPORATION, Buffalo Springs, Va.
Filed June 25, 1930. Serial No. 302,842. PUBLISHED SEPTEMBER 23, 1930. Class 45.

277,968. RAYON YARNS AND WOOL YARNS. JULIUS A. WEINBERGER, doing business as The Jawine Co., New York, N. Y.
Filed June 21, 1930. Serial No. 302,710. PUBLISHED SEPTEMBER 16, 1930. Class 43.

277,969. TOYS AND IMPLEMENTS FOR EXERCISES AND SPORTS—NAMELY, CHILDREN'S PLAYING BALLS, BASEBALLS, TENNIS BALLS, CHECKERS AND CHECKERBOARD, CHESSMEN AND CHESSBOARDS, DOLLS, TOPS, TOY BOWS, PLAYING CARDS, PASTED RAG PICTURES, BILLIARD BALLS AND CUES, TENNIS NETS AND RACQUETS, BASEBALL BATS, PING-PONG SETS, FENCING FOILS AND GUARDS, AND IMPLEMENTS FOR JUDO (JUJITSU). CHOKICHI KURAMOCHI, Tokyo, Japan.
Filed June 20, 1930. Serial No. 302,636. PUBLISHED SEPTEMBER 16, 1930. Class 22.

277,970. SUBSCRIBERS' DESK TELEPHONE SETS. KELLOGG SWITCHBOARD & SUPPLY CO., Chicago, Ill.
Filed May 12, 1930. Serial No. 300,352. PUBLISHED SEPTEMBER 16, 1930. Class 21.

277,971. DRIED AND POWDERED KELP FOR USE AS AND IN MEDICINAL PREPARATIONS AND CHEMICAL COMPOSITIONS AND PROCESSES AND ALSO INCIDENTALLY IN FOOD PREPARATIONS. KELCO COMPANY, San Diego, Calif.
Filed May 12, 1930. Serial No. 300,851. PUBLISHED SEPTEMBER 9, 1930. Class 6.

277,972. ALGINIC ACID, SODIUM ALGINATE, AMMONIUM ALGINATE, AND DRY POWDERED KELP FOR USE AS AND IN MEDICINAL PREPARATIONS AND CHEMICAL COMPOSITIONS AND PROCESSES AND ALSO INCIDENTALLY IN FOOD PREPARATIONS. KELCO COMPANY, San Diego, Calif.
Filed May 12, 1930. Serial No. 300,350. PUBLISHED SEPTEMBER 9, 1930. Class 6.

277,973. PLAIN AND SELF-RISING WHEAT FLOUR. THE DAN VALLEY MILLS, Danville, Va.
Filed May 12, 1930. Serial No. 300,340. PUBLISHED SEPTEMBER 23, 1930. Class 46.

277,974. CONFECTIONERY—NAMELY, AN INDIVIDUALLY-WRAPPED SPECIALTY IN THE NATURE OF A CANDY BAR. CHICAGO CANDY NOVELTIES CORP., Chicago, Ill.
Filed May 12, 1930. Serial No. 300,336. PUBLISHED SEPTEMBER 23, 1930. Class 46.

277,975. MATTRESSES. S. KARPEN & BROS., Chicago, Ill.
Filed May 9, 1930. Serial No. 300,202. PUBLISHED SEPTEMBER 16, 1930. Class 32.

277,976. CHOCOLATE-COATED RAISINS AND PLAIN RAISINS. WALTER J. BERGER, doing business as California Confections Company, San Francisco, Calif.
Filed May 7, 1930. Serial No. 300,046. PUBLISHED SEPTEMBER 23, 1930. Class 46.

277,977. NONALCOHOLIC MALT BEVERAGE. MANITOWOC PRODUCTS COMPANY, Manitowoc, Wis.
Filed May 5, 1930. Serial No. 299,978. PUBLISHED SEPTEMBER 23, 1930. Class 48.

277,978. FACE CREAMS. ELIZABETH MARIE, INC., Philadelphia, Pa.
Filed May 5, 1930. Serial No. 299,962. PUBLISHED AUGUST 26, 1930. Class 6.

277,979. RICE. LAKE CHARLES RICE MILLING COMPANY OF LOUISIANA, INC., Lake Charles, La.
Filed May 2, 1930. Serial No. 299,846. PUBLISHED SEPTEMBER 23, 1930. Class 46.

277,980. CANNED VEGETABLES, CANNED FISH AND FISH ROE. PHILLIPS PACKING COMPANY, INC., Cambridge, Md.
Filed May 1, 1930. Serial No. 299,797. PUBLISHED SEPTEMBER 16, 1930. Class 46.

277,981. CLOTH-CONDITIONING APPARATUS USED FOR SUBJECTING THE CLOTH TO TREATMENT BY HEAT AND MOISTURE. PARKS & WOOLSON MACHINE COMPANY, Springfield, Vt.
Filed April 29, 1930. Serial No. 299,618. PUBLISHED SEPTEMBER 23, 1930. Class 23.

277,982. GAS, OIL, AND VAPOR BURNING WATER HEATERS AND THEIR STRUCTURAL PARTS. THE CLEVELAND HEATER COMPANY, Cleveland, Ohio.
Filed April 28, 1930. Serial No. 299,554. PUBLISHED SEPTEMBER 16, 1930. Class 34.

277,983. CAKE. DRAKE BAKERIES INCORPORATED, Brooklyn, N. Y.
Filed July 31, 1930. Serial No. 304,043. PUBLISHED SEPTEMBER 16, 1930. Class 46.

277,984. ADHESIVE PASTE. INDEPENDENT DRUGGISTS' ALLIANCE DISTRIBUTING CO., Chicago, Ill.
Filed July 28, 1930. Serial No. 303,891. PUBLISHED SEPTEMBER 23, 1930. Class 5.

277,985. LEATHER GOODS—NAMELY, LEATHER WALLETS. INDEPENDENT DRUGGISTS' ALLIANCE DISTRIBUTING CO., Chicago, Ill.
Filed July 28, 1930. Serial No. 303,889. PUBLISHED SEPTEMBER 23, 1930. Class 3.

277,986. COAL. WEST VIRGINIA COAL & COKE CORP., Cincinnati, Ohio.
Filed July 26, 1930. Serial No. 303,866. PUBLISHED SEPTEMBER 16, 1930. Class 1.

277,987. PREPARED GIFT PACKAGES OR BASKETS OF PLURAL REAL SELECTED CORSAGE BOUQUETS. SAVOY PARK SHOP, INC., New York, N. Y.
Filed May 26, 1930. Serial No. 301,299. PUBLISHED SEPTEMBER 23, 1930. Class 1.

277,988. WIRE FENCING. PITTSBURGH STEEL COMPANY, Pittsburgh, Pa.
Filed August 7, 1930. Serial No. 304,343. PUBLISHED SEPTEMBER 23, 1930. Class 13.

277,989. HOUSE-HEATING BOILERS BURNING SOLID, LIQUID, OR GASEOUS FUEL. PACIFIC STEEL BOILER CORPORATION, Waukegan, Ill.; Bristol, Pa., and Detroit, Mich.
Filed August 4, 1930. Serial No. 304,212. PUBLISHED SEPTEMBER 23, 1930. Class 34.

277,990. LETTER BOXES AND POST-OFFICE BOXES. THE YALE AND TOWNE MFG. CO., Stamford, Conn.
Filed July 30, 1930. Serial No. 304,029. PUBLISHED SEPTEMBER 16, 1930. Class 2.

277,991. AUTOMATIC STOKERS, THEIR PARTS, AND ATTACHMENTS. DELTA COMPANY, INC., North Chicago, Ill.
Filed July 25, 1930. Serial No. 303,802. PUBLISHED SEPTEMBER 23, 1930. Class 34.

277,992. COLLAPSIBLE TUBES, BOTTLES, AND JARS. THE SUN TUBE CORPORATION, Hillside, N. J.
Filed July 19, 1930. Serial No. 303,664. PUBLISHED SEPTEMBER 16, 1930. Class 2.

277,993. GAS-RANGE BURNER IGNITION AND CONTROL DEVICES—NAMELY, TOP-BURNER LIGHTERS, OVEN-BURNER LIGHTERS, COMBINED TOP AND OVEN BURNER LIGHTERS, COMBINED LIGHTERS AND SAFETY FUEL-CUT-OFF DEVICES FOR THE BURNERS OF A GAS RANGE, AND IGNITION PILOT-CONTROLLED THERMOSTATIC CUT-OFF VALVES FOR GAS RANGES. THE PATROL VALVE COMPANY, Cleveland, Ohio.
Filed July 11, 1930. Serial No. 303,383. PUBLISHED SEPTEMBER 16, 1930. Class 34.

277,994. BOILERS AND BOILER AUXILIARIES—NAMELY, GAS BURNERS AND BOILER FEED-WATER SYSTEMS. STEAM AND COMBUSTION COMPANY, Chicago, Ill.
Filed July 7, 1930. Serial No. 303,221. PUBLISHED SEPTEMBER 16, 1930. Class 34.

277,995. HEAT-INSULATED BOTTLE CONTAINERS. THERMODOR COMPANY, INC., Detroit, Mich.
Filed June 27, 1930. Serial No. 302,917. PUBLISHED SEPTEMBER 23, 1930. Class 2.

277,996. WATER HEATERS, HEATING SYSTEMS, CENTRAL HOUSE-HEATING UNITS, ETC. THE CLEVELAND HEATER COMPANY, Cleveland, Ohio.
Filed May 31, 1930. Serial No. 301,843. PUBLISHED SEPTEMBER 16, 1930. Class 34.

277,997. GAS RANGES, STOVES, AND HEATERS. HOLBROOK, MERRILL & STETSON, INC., LIMITED, Wilmington, Del., and Los Angeles, Calif.
Filed May 29, 1930. Serial No. 301,638. PUBLISHED SEPTEMBER 16, 1930. Class 34.

277,998. CLEANSING CREAMS, EMOLLIENTS, SKIN BALMS, SKIN BLEACHES, ASTRINGENTS, HAND CREAMS, TOILET POWDERS, ROUGE AND PASTE APPLICATION FOR LIPS. KATHLEEN CLIFFORD, LTD., Beverly Hills, Calif.
Filed February 10, 1930. Serial No. 295,833. PUBLISHED SEPTEMBER 23, 1930. Class 6.

277,999. TOBACCO-SMOKING PIPES. HIRSCHL & BENDHEIM, Washington, Mo.
Filed February 6, 1930. Serial No. 295,676. PUBLISHED SEPTEMBER 16, 1930. Class 8.

278,000. WEEKLY PUBLICATION. SUGAR PUBLICATIONS, INC., New York, N. Y.
Filed January 30, 1930. Serial No. 295,399. PUBLISHED SEPTEMBER 23, 1930. Class 38.

278,001. AUTOMOBILE SLIP COVERS. AUTO-MATIC SEAT COVER CORPORATION, New York, N. Y.
Filed January 27, 1930. Serial No. 295,246. PUBLISHED SEPTEMBER 16, 1930. Class 19.

278,002. LIP TINT. FRANCIS J. BEAURLINE, doing business as Beaurline Co., St. Paul, Minn.
Filed January 24, 1930. Serial No. 295,147. PUBLISHED SEPTEMBER 2, 1930. Class 6.

278,003. CONFECTIONERY—NAMELY, CANDY BARS. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y.
Filed January 20, 1930. Serial No. 294,952. PUBLISHED SEPTEMBER 16, 1930. Class 46.

278,004. PRISM BINOCULARS; OPERA, FIELD, AND MARINE GLASSES; AND READING GLASSES. P. E. VALETTE ET CIE., Paris, France.
Filed January 15, 1930. Serial No. 294,822. PUBLISHED SEPTEMBER 16, 1930. Class 26.

278,005. COFFEE TABLES, OCCASIONAL TABLES, CONSOLE TABLES, MIRROR FRAMES, OFFICE FURNITURE, END TABLES, TEA CARTS, AND CHINA, RADIO, AND COMMODE CABINETS. MILANO FURNITURE CO., INC., Chicago, Ill.
Filed January 15, 1930. Serial No. 294,817. PUBLISHED SEPTEMBER 16, 1930. Class 32.

278,006. PERFUMES. SOCIETE LES PARFUMS GUENEAUX, Asnieres, France.
Filed January 11, 1930. Serial No. 294,692. PUBLISHED SEPTEMBER 16, 1930. Class 6.

278,007. SALT. CAREY SALT CO., Hutchinson, Kans.
Filed January 9, 1930. Serial No. 294,572. PUBLISHED SEPTEMBER 16, 1930. Class 6.

278,008. INCENSE. ALEXIS W. O'KEEFFE, Chicago, Ill., assignor, by mesne assignments, to Hindu Incense Manufacturing Company, Chicago, Ill., a Corporation.
Filed December 30, 1929. Serial No. 294,235. PUBLISHED SEPTEMBER 9, 1930. Class 6.

278,009. THERMOINSULATING MATERIAL USED AS CONSTRUCTION MATERIAL. GEBRÜDER MAYER KOMM.-GES., Esslingen-on-the-Neckar, Germany.
Filed November 29, 1929. Serial No. 293,039. PUBLISHED SEPTEMBER 9, 1930. Class 12.

278,010. TONIC AND BLOOD PURIFIER. PAUL J. SIMASHEVSKY, Chicago, Ill.
Filed May 21, 1930. Serial No. 300,988. PUBLISHED AUGUST 26, 1930. Class 6.

278,011. SELF-RISING FLOUR. THE COLORADO MILLING & ELEVATOR CO., doing business as The Caldwell Flour Mills, Denver, Colo., and Caldwell, Idaho.
Filed May 21, 1930. Serial No. 300,927. PUBLISHED SEPTEMBER 16, 1930. Class 46.

278,012. ANESTHETICS IN THE FORM OF LIQUID, PASTE, GASEOUS, SOLID, OR PULVERIZED, USED IN THE PREPARATION OF ALL KINDS OF MEDICAMENTS. LES PANSEMENTS BREVETES CORBIERE, Paris, France.
Filed May 17, 1930. Serial No. 300,729. PUBLISHED SEPTEMBER 16, 1930. Class 6.

278,013. MALT SYRUP. FOSS SCHNEIDER COMPANY, Cincinnati, Ohio.
Filed May 17, 1930. Serial No. 300,715. PUBLISHED SEPTEMBER 16, 1930. Class 46.

278,014. WHEAT FLOUR. CHARLES BANKS STOUT, doing business as Washington Flour Mill, Washington, Mo.
Filed May 13, 1930. Serial No. 300,449. PUBLISHED SEPTEMBER 23, 1930. Class 46.

278,015. ASTRINGENTS, ASTRINGENT CERATES, BLEACH CREAMS, ETC. WILLIAM LEWIS HAYES, Atlantic City, N. J.
Filed May 13, 1930. Serial No. 300,412. PUBLISHED SEPTEMBER 9, 1930. Class 6.

278,016. PREPARATIONS FOR PURIFYING LIQUIDS, IN PARTICULAR WATER. N. V. STANDARD WATER MAATSCHAPPIJ, Amsterdam, Netherlands.
Filed May 12, 1930. Serial No. 300,363. PUBLISHED AUGUST 26, 1930. Class 6.

278,017. PREPARATIONS FOR PURIFYING LIQUIDS, IN PARTICULAR WATER. N. V. STANDARD WATER MAATSCHAPPIJ, Amsterdam, Netherlands.
Filed May 12, 1930. Serial No. 300,362. PUBLISHED AUGUST 26, 1930. Class 6.

278,018. WATER HEATERS, HEATING SYSTEMS, CENTRAL HOUSE-HEATING UNITS, ETC. THE CLEVELAND HEATER COMPANY, Cleveland, Ohio.
Filed April 24, 1930. Serial No. 299,375. PUBLISHED SEPTEMBER 16, 1930. Class 34.

278,019. WATER HEATERS, HEATING SYSTEMS, CENTRAL HOUSE-HEATING UNITS, ETC. THE CLEVELAND HEATER COMPANY, Cleveland, Ohio.
Filed April 24, 1930. Serial No. 299,373. PUBLISHED SEPTEMBER 16, 1930. Class 34.

278,020. WATER HEATERS, HEATING SYSTEMS, CENTRAL HOUSE-HEATING UNITS, ETC. THE CLEVELAND HEATER COMPANY, Cleveland, Ohio.
Filed April 24, 1930. Serial No. 299,374. PUBLISHED SEPTEMBER 16, 1930. Class 34.

278,021. LINE OF TOILET PREPARATIONS. PLOUGH, INC., Memphis, Tenn.
Filed April 23, 1930. Serial No. 299,336. PUBLISHED SEPTEMBER 9, 1930. Class 6.

278,022. VENTILATOR BLOWERS AND FANS. HARTZELL INDUSTRIES, INC., Piqua, Ohio.
Filed April 17, 1930. Serial No. 298,993. PUBLISHED SEPTEMBER 23, 1930. Class 34.

278,023. CANNED FRUITS AND VEGETABLES. MONOCACY VALLEY CANNING COMPANY, Frederick, Md.
Filed April 12, 1930. Serial No. 298,760. PUBLISHED SEPTEMBER 16, 1930. Class 46.

278,024. A MAGAZINE PUBLISHED EVERY OTHER WEEK. BAKERS' HELPER CO., Chicago, Ill.
Filed April 16, 1930. Serial No. 298,925. PUBLISHED SEPTEMBER 23, 1930. Class 38.

278,025. PERFUMERY GOODS—NAMELY, PERFUMED WATERS, OILS, AND PAINTS FOR THE FACE. STÉ. ANONYME FRANÇAISE REDFERN, Paris, France.
Filed April 8, 1930. Serial No. 298,552. PUBLISHED SEPTEMBER 2, 1930. Class 6.

278,026. COTTON DRAPERY FABRICS. H. R. MALLINSON & CO., INC., New York, N. Y.
Filed April 4, 1930. Serial No. 298,406. PUBLISHED SEPTEMBER 16, 1930. Class 42.

278,027. CHOCOLATE CONFECTIONS. JOSÉ L. SILIS, doing business as M. L. Rojas Co., Los Angeles, Calif.
Filed April 3, 1930. Serial No. 298,363. PUBLISHED SEPTEMBER 16, 1930. Class 46.

278,028. MEDICINE FOR THE TREATMENT OF COUGHS, COLDS, AND MINOR THROAT IRRITATIONS. THE HUXLEY LABORATORIES, INC., New York, N. Y.
Filed March 29, 1930. Serial No. 298,103. PUBLISHED SEPTEMBER 2, 1930. Class 6.

278,029. AN ALKALINE POWDER FOR USE IN THE TREATMENT OF CERTAIN DISORDERS OF THE STOMACH. E. M. PHARMACAL COMPANY, Denver, Colo., assignor to Buenger Pharmacal Company, Denver, Colo.
Filed March 24, 1930. Serial No. 297,813. PUBLISHED SEPTEMBER 23, 1930. Class 6.

278,030. NON-ALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. BOOTH BOTTLING COMPANY, Philadelphia, Pa.
Filed March 19, 1930. Serial No. 297,515. PUBLISHED SEPTEMBER 23, 1930. Class 45.

278,031. TOILET PREPARATIONS. WILLIAM THOMAS PAQUIN, doing business as The Audline Company, Worcester, Mass.
Filed March 15, 1930. Serial No. 297,377. PUBLISHED AUGUST 26, 1930. Class 6.

278,032. CANNED FISH. NICHIRO GYOGYO KABUSHIKI KAISHA, Tokyo, Japan.
Filed March 17, 1930. Serial No. 297,454. PUBLISHED SEPTEMBER 16, 1930. Class 46.

278,033. QUILTS AND QUILTINGS, COMFORTERS, MATTRESS, WAGON, TABLE, CRIB, AND PACKING PADS, EACH AND ALL OF WHICH ARTICLES CONSISTS OF LAYERS OF TEXTILE FABRICS WITH A LAYER OF FELT OR COTTON PADDING BETWEEN. ALBATROSS QUILTING, INC., Cicero, Ill.
Filed March 7, 1930. Serial No. 296,941. PUBLISHED SEPTEMBER 16, 1930. Class 42.

278,034. CHEMICAL COMPRISING PURIFIED EMETINE HYDROCHLORIDE USED BY INJECTION IN AMŒBIC DYSENTERY, ALSO ULCERATIONS OF THE INTESTINAL TRACT AND IN CERTAIN FORMS OF DEGENERATING DISEASES. WILLIAM A. FITCH, INC., New York, N. Y.
Filed February 24, 1930. Serial No. 296,414. PUBLISHED SEPTEMBER 9, 1930. Class 6.

278,035. FABRICS COMPRISING WOVEN OR KNITTED PILE FABRICS. H. ERNSTBERGER & Co., New York, N. Y.
Filed February 24, 1930. Serial No. 296,406. PUBLISHED SEPTEMBER 9, 1930. Class 42.

278,036. GOLF BALLS AND GOLF CLUBS. PROFESSIONAL GOLFERS' ASSOCIATION OF AMERICA, New York, N. Y.
Filed February 18, 1930. Serial No. 296,197. PUBLISHED SEPTEMBER 23, 1930. Class 22.

278,037. FRET SAWS. J. N. EBERLE & CIE. AKTIENGESELLSCHAFT, Augsburg-Pfersee, Germany.
Filed February 18, 1930. Serial No. 296,177. PUBLISHED SEPTEMBER 23, 1930. Class 23.

278,038. LAVENDER SHAVING LOTION, TALCUM POWDER. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed May 31, 1930. Serial No. 302,043. PUBLISHED SEPTEMBER 2, 1930. Class 6.

278,039. DRILLS OF THE KIND USED FOR METAL AND WOOD WORKING. WHITMAN & BARNES, INC., Detroit, Mich.
Filed June 6, 1930. Serial No. 302,226. PUBLISHED SEPTEMBER 16, 1930. Class 23.

278,040. LINIMENT. HAZOL LABORATORIES, Coffeyville, Kans.
Filed June 23, 1930. Serial No. 302,731. PUBLISHED AUGUST 26, 1930. Class 6.

278,041. PERMANENT-WAVE SOLUTION. L. P. BONNEAU, doing business as The Bonneau Beauty Shop, Utica, N. Y.
Filed June 24, 1930. Serial No. 302,766. PUBLISHED SEPTEMBER 2, 1930. Class 6.

278,042. LIQUID SKIN CLEANSER CONTAINING ALCOHOL. LEON DI SALVO, Philadelphia, Pa.
Filed June 24, 1930. Serial No. 302,770. PUBLISHED AUGUST 26, 1930. Class 6.

278,043. CHEESE-DISSOLVING SALT. CHEMISCHE FABRIK JOH. A. BENCKISER, G. M. B. H., Ludwigshafen-on-the-Rhine, Germany.
Filed June 30, 1930. Serial No. 302,992. PUBLISHED SEPTEMBER 9, 1930. Class 6.

278,044. PERFUMES. COMPACT PERFUME INC., New York, N. Y.
Filed June 30, 1930. Serial No. 302,995. PUBLISHED AUGUST 26, 1930. Class 6.

278,045. HOSIERY. VAN RAALTE COMPANY, New York, N. Y.
Filed July 2, 1930. Serial No. 303,073. PUBLISHED SEPTEMBER 9, 1930. Class 39.

278,046. DEODORIZER. APEX PRODUCTS CORPORATION, Chicago, Ill.
Filed July 7, 1930. Serial No. 303,148. PUBLISHED SEPTEMBER 9, 1930. Class 6.

278,047. PHARMACEUTICAL AGENT USED IN THE TREATMENT OF NEUROSYPHILIS. THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, doing business as Stanford University, San Francisco, Calif.
Filed July 7, 1930. Serial No. 303,153. PUBLISHED AUGUST 26, 1930. Class 6.

278,048. DENTAL CREAM. COLGATE-PALMOLIVE-PEET COMPANY, Chicago, Ill.
Filed July 7, 1930. Serial No. 303,161. PUBLISHED SEPTEMBER 9, 1930. Class 6.

278,049. TALC POWDER. COLGATE-PALMOLIVE-PEET COMPANY, Chicago, Ill.
Filed July 7, 1930. Serial No. 303,162. PUBLISHED AUGUST 26, 1930. Class 6.

278,050. TIRES MADE WHOLLY OR PARTLY OF RUBBER, INNER TUBES, AND TIRE AND TUBE REPAIR PATCHES. WHITE STAR REFINING COMPANY, Detroit, Mich.
Filed July 7, 1930. Serial No. 303,238. PUBLISHED SEPTEMBER 23, 1930. Class 35.

278,051. PISTON RINGS. THE PERFECT CIRCLE CO., Hagerstown, Ind.
Filed July 8, 1930. Serial No. 303,253. PUBLISHED SEPTEMBER 16, 1930. Class 35.

278,052. FAT LIQUOR FOR USE ON FURS AND HIDES. AMERICAN DYEWOOD COMPANY, New York, N. Y.
Filed July 11, 1930. Serial No. 303,362. PUBLISHED AUGUST 26, 1930. Class 6.

278,053. VEGETABLE DYE FOR FURS. AMERICAN DYEWOOD COMPANY, New York, N. Y.
Filed July 11, 1930. Serial No. 303,363. PUBLISHED AUGUST 26, 1930. Class 6.

278,054. WINDMILLS AND PARTS THEREOF, WELL-DRILLING MACHINERY, ETC. DEMPSTER MILL MANUFACTURING COMPANY, Beatrice, Nebr.
Filed July 14, 1930. Serial No. 303,467. PUBLISHED SEPTEMBER 23, 1930. Class 23.

278,055. ANTISEPTIC VAGINAL SUPPOSITORIES. FRANK S. HOLMES, doing business as Holmes Drug Laboratories, Turtle Creek, Pa.
Filed July 14, 1930. Serial No. 303,475. PUBLISHED AUGUST 26, 1930. Class 6.

278,056. COD-LIVER-OIL EMULSION. THE UPJOHN COMPANY, Kalamazoo, Mich.
Filed July 14, 1930. Serial No. 303,496. PUBLISHED AUGUST 26, 1930. Class 6.

278,057. FIRE-EXTINGUISHING CHEMICALS. DU-GAS FIRE EXTINGUISHER CORPORATION, New York, N. Y.
Filed July 15, 1930. Serial No. 303,504. PUBLISHED SEPTEMBER 2, 1930. Class 6.

278,058. OIL OR LINIMENT FOR USE IN TREATING SPRAINS, ETC. G. A. SEELEY, Louisville, Colo.
Filed May 29, 1930. Serial No. 301,714. PUBLISHED AUGUST 26, 1930. Class 6.

278,059. BOOKBINDING MACHINES, GLUING MACHINES, PASTING MACHINES, GUMMING MACHINES, AND VARNISHING MACHINES WITH OR WITHOUT TRAVELLING BAND. PRAKTISCHE MASCHINEN, G. M. B. H., Berlin Germany.
Filed May 29, 1930. Serial No. 301,696. PUBLISHED SEPTEMBER 23, 1930. Class 23.

278,060. MEDICINAL AND PHARMACEUTICAL PREPARATIONS—NAMELY, WHITE LINIMENT FOR EXTERNAL USE FOR RELIEF OF SPRAINS, BRUISES, AND INFLAMMATION, AND CASTOR OIL. CALIFORNIA MEDICINAL WINE CO., Los Angeles, Calif.
Filed May 29, 1930. Serial No. 301,572. PUBLISHED SEPTEMBER 9, 1930. Class 6.

278,061. COSMETICS. ESTELLE M. LAWRENCE, doing business as Iveen Cosmetics, Los Angeles, Calif.
Filed May 28, 1930. Serial No. 301,468. PUBLISHED SEPTEMBER 2, 1930. Class 6.

278,062. HAIR TONIC. LOUISE HIRTZEL, doing business as Hair-Herbs Company, Chicago, Ill.
Filed May 28, 1930. Serial No. 301,440. PUBLISHED AUGUST 26, 1930. Class 6.

278,063. FURNITURE. PHILLIP STRAUSS, Nanticoke, Pa.
Filed May 24, 1930. Serial No. 301,214. PUBLISHED SEPTEMBER 16, 1930. Class 32.

278,064. SALVE USED FOR EXTERNAL APPLICATION FOR THE RELIEF OF BURNS, CUTS, AND WOUNDS. ALFIE J. WALKER, Omaha, Nebr.
Filed May 22, 1930. Serial No. 301,081. PUBLISHED AUGUST 19, 1930. Class 6.

278,065. HAIR PASTES. IDA SCHMIDT, doing business as Ida A. Larbee, Los Angeles, Calif.
Filed May 22, 1930. Serial No. 301,064. PUBLISHED SEPTEMBER 9, 1930. Class 6.

278,066. GOLF CLUBS. SCHAVOLITE GOLF CORPORATION, New York, N. Y.
Filed August 13, 1930. Serial No. 304,583. PUBLISHED SEPTEMBER 23, 1930. Class 22.

278,067. FISHING LINES, FISHING HOOKS, FISHING LEADERS, FISHING REELS, AND FISHING RODS. ADOLPH BLAICH, INC., San Francisco, Calif.
Filed August 13, 1930. Serial No. 304,532. PUBLISHED SEPTEMBER 23, 1930. Class 22.

278,068. GAME BOARDS. DICE-COUNT, INC., Indianapolis, Ind.
Filed August 8, 1930. Serial No. 304,369. PUBLISHED SEPTEMBER 16, 1930. Class 22.

278,069. ALL-WORSTED FABRIC IN THE PIECE. THE ATLANTIC MILLS, Olneyville and Providence, R. I., and Stottsville, N. Y.
Filed August 7, 1930. Serial No. 304,306. PUBLISHED SEPTEMBER 16, 1930. Class 42.

278,070. FILTER CLOTHS, COTTON DISCS FOR FILTERING MILK. FILTER-FLANNEL SQUARES, FILTER CIRCLES, FILTER BAGS, AND FILTER TUBES. PERCIVAL J. REEVE, doing business as Reeve & Mitchell Co., Philadelphia, Pa.
Filed August 5, 1930. Serial No. 304,250. PUBLISHED SEPTEMBER 23, 1930. Class 31.

278,071. MALT BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT ALCOHOL BY VOLUME. LOUIS F. NEUWEILER'S SONS, Allentown, Pa.
Filed August 5, 1930. Serial No. 304,247. PUBLISHED SEPTEMBER 23, 1930. Class 48.

278,072. WOOLEN PIECE GOODS. HARTFORD WOOLEN CO., Hartford, Vt.
Filed July 30, 1930. Serial No. 304,007. PUBLISHED SEPTEMBER 16, 1930. Class 42.

278,073. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y.
Filed July 30, 1930. Serial No. 303,992. PUBLISHED SEPTEMBER 9, 1930. Class 42.

278,074. A MALT BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT ALCOHOL BY VOLUME. INDEPENDENT DRUGGISTS' ALLIANCE DISTRIBUTING CO., Chicago, Ill.
Filed July 28, 1930. Serial No. 303,906. PUBLISHED SEPTEMBER 23, 1930. Class 48.

278,075. A NONALCOHOLIC, MALTLESS BEVERAGE SOLD AS A SOFT DRINK AND SYRUP FOR MAKING SAME. COMET'S CALIFORNIA ORANGE DRINK CO., INC., Los Angeles, Calif.
Filed July 28, 1930. Serial No. 303,879. PUBLISHED SEPTEMBER 23, 1930. Class 45.

278,076. WOVEN, KNITTED, NETTED, TEXTILE AND PILE FABRICS IN THE PIECE COMPRISED IN WHOLE OR IN PART OF SILK. CHENEY BROTHERS, South Manchester, Conn.
Filed July 18, 1930. Serial No. 303,596. PUBLISHED SEPTEMBER 23, 1930. Class 42.

278,077. GOLF COURSES, PORTABLE IN NATURE AND SOLD AS A UNIT, INDOOR GOLF COURSES, AND PARTS THEREFOR. MINIATURE GOLF COURSES, INC., Chicago, Ill.
Filed July 16, 1930. Serial No. 303,541. PUBLISHED SEPTEMBER 16, 1930. Class 22.

278,078. RUSK. DUTCH TEA RUSK COMPANY, Holland, Mich.
Filed December 10, 1928. Serial No. 276,518. PUBLISHED SEPTEMBER 16, 1930. Class 46.

278,079. FRESH CITRUS FRUITS, FRESH DECIDUOUS FRUITS, AND FRESH VEGETABLES. M. POTIGIAN, Fresno, Calif.
Filed June 3, 1929. Serial No. 284,995. PUBLISHED SEPTEMBER 16, 1930. Class 46.

278,080. FISH LURES. WRIGHT & MCGILL COMPANY, Denver, Colo.
Filed May 7, 1929. Serial No. 283,639. PUBLISHED SEPTEMBER 23, 1930. Class 22.

278,081. MEDICINE FOR EXTERNAL USE ONLY FOR THE TREATMENT OF RHEUMATISM, NEURALGIA, LUMBAGO, SPRAINS, STIFF JOINTS, PAIN IN BACK AND LIMBS, BRUISES, AND BURNS. RU-MA-NOX MEDICINE CO., Altamont, Tenn.
Filed May 2, 1929. Serial No. 283,417. PUBLISHED SEPTEMBER 16, 1930. Class 6.

278,082. LENSES. OPTICAL SERVICE CORPORATION, New York, N. Y.
Filed April 2, 1929. Serial No. 281,744. PUBLISHED SEPTEMBER 23, 1930. Class 26.

278,083. CANDY. THINSHELL CANDIES, INC., Chicago, Ill.
Filed March 19, 1929. Serial No. 281,024. PUBLISHED SEPTEMBER 23, 1930. Class 46.

278,084. MEN'S LEATHER HATBOXES, LEATHER SUITCASES, WOMEN'S LEATHER HAND BAGS. KNOX HAT COMPANY, INC., New York, N. Y.
Filed February 20, 1929. Serial No. 279,659. PUBLISHED SEPTEMBER 23, 1930. Class 3.

278,085. COAL. ROYAL COAL CO., Lansing, Mich.
Filed January 28, 1929. Serial No. 278,556. PUBLISHED SEPTEMBER 16, 1930. Class 1.

278,086. ASPIRIN, BORIC ACID, BAY RUM, ETC. THE BALTIMORE DRUG COMPANY, INCORPORATED, Baltimore, Md.
Filed November 19, 1929. Serial No. 292,573. PUBLISHED SEPTEMBER 16, 1930. Class 6.

278,087. HARDWARE HOLDERS FOR DRAPED CURTAINS OR DRAPERIES FOR HOLDING CURTAINS AND DRAPERIES IN POSITION. BESSIE DOMBCIK, Cleveland, Ohio.
Filed October 3, 1929. Serial No. 290,565. PUBLISHED SEPTEMBER 16, 1930. Class 13.

278,088. RADIO RECEIVING APPARATUS, PARTICULARLY PARTS USED IN THE ASSEMBLY OF RADIO RECEIVING SETS, SUCH PARTS BEING VARIABLE AND FIXED CONDENSERS, RHEOSTATS, TRANSFORMERS, VACUUM TUBES, JACKS, AND TUBE SOCKETS. PILOT RADIO & TUBE CORPORATION, Brooklyn, N. Y.
Filed September 27, 1929. Serial No. 290,322. PUBLISHED SEPTEMBER 16, 1930. Class 21.

278,089. DOUGHNUTS. FRED MAIER, Jr., Buffalo, N. Y.
Filed September 23, 1929. Serial No. 290,135. PUBLISHED SEPTEMBER 23, 1930. Class 46.

278,090. A MEDICINAL PREPARATION USED AS A GENERAL TONIC. WESTERN PHARMACAL COMPANY, INC., Phoenix, Ariz.
Filed September 13, 1929. Serial No. 289,778. PUBLISHED SEPTEMBER 23, 1930. Class 6.

278,091. FRESH DECIDUOUS FRUITS. SANTA CLARA PEAR ASSOCIATION, San Jose, Calif.
Filed September 11, 1929. Serial No. 289,646. PUBLISHED SEPTEMBER 23, 1930. Class 46.

278,092. THERMOSTATS. ELECTRO-MASTER COMPANY, Detroit Mich., assignor to Electromaster Inc., Detroit, Mich., a Corporation of Michigan.
Filed September 7, 1929. Serial No. 289,452. PUBLISHED SEPTEMBER 16, 1930. Class 26.

278,093. SKIN OINTMENT, ANTISEPTICS, SKIN LOTION, NASAL SPRAY, TABLETS FOR TREATING BOILS AND CARBUNCLES, SUPPOSITORIES FOR THE ALLEVIATION OF PILES, LINIMENT FOR RELIEVING PAIN, MEDICATED DENTAL PACKING USED TO RENDER CAVITIES IN TEETH ANTISEPTIC BEFORE FILLING, AND MOUTH WASHES. STANIFORM LIMITED, London, England.
Filed August 7, 1929. Serial No. 288,255. PUBLISHED SEPTEMBER 16, 1930. Class 6.

278,094. FLYING MACHINES. ROBERT M. THOMSON, Miami, Fla.
Filed July 31, 1929. Serial No. 287,951. PUBLISHED SEPTEMBER 23, 1930. Class 19.

278,095. PIECE GOODS COMPOSED OF COTTON, LINEN, SILK, RAYON AND/OR COMBINATIONS THEREOF; TOWELLING, TABLECLOTHS, NAPKINS, PILLOWCASES, SHEETS, AND SHEETINGS. EUREKA MANUFACTURING CO., New York, N. Y.
Filed July 31, 1929. Serial No. 287,919. PUBLISHED SEPTEMBER 23, 1930. Class 42.

278,096. HAIR-WAVING FLUID. JANE WILLETT, Dallas, Tex.
Filed July 25, 1929. Serial No. 287,685. PUBLISHED SEPTEMBER 16, 1930. Class 6.

278,097. PAPERBOARD BOXES. THE HINDE & DAUCH PAPER COMPANY, Sandusky, Ohio.
Filed July 25, 1929. Serial No. 287,661. PUBLISHED SEPTEMBER 16, 1930. Class 2.

278,098. PREPARATION USABLE AS AN EXTERNAL ANTISEPTIC COATING IN LOCAL INFLAMMATIONS, LUMBAGO, WEAK MUSCLES, AND SWELLINGS, SKIN ABRASIONS, AND LOCAL PAINS. EX-CEL-O-LIDE PRODUCTS CO., Brooklyn, N. Y.
Filed July 9, 1929. Serial No. 286,835. PUBLISHED SEPTEMBER 9, 1930. Class 6.

278,099. PREPARATION FOR TREATING CORNS. FRED E. SCHMIDT, doing business as Allied Products, Milwaukee, Wis.
Filed July 3, 1929. Serial No. 286,596. PUBLISHED SEPTEMBER 16, 1930. Class 6.

278,100. HAIR TONICS. PETER JOSEF HAPP, doing business as Joh. André Sebald, Hildesheim, Germany.
Filed June 29, 1929. Serial No. 286,387. PUBLISHED SEPTEMBER 9, 1930. Class 6.

278,101. CAKE KNIVES, BREAD KNIVES, HAY KNIVES, SCYTHES, AXES, SICKLES, AND GRASS SHEARS. NORTH WAYNE TOOL COMPANY, Oakland, Me.
Filed June 29, 1929. Serial No. 286,380. PUBLISHED SEPTEMBER 23, 1930. Class 23.

278,102. PRACTICE GOLF BALLS. MAX FIEDLER, doing business as Bogey Practice Ball Company, Milwaukee, Wis., assignor to Jacob Moerschel, Jr., Milwaukee, Wis.
Filed June 12, 1929. Serial No. 285,448. PUBLISHED SEPTEMBER 16, 1930. Class 22.

278,103. PAINT PRODUCT TO AMPLIFY AND INCREASE THE VOLUME OF THE QUANTITY OF PAINTS. FRANK H. BYRNE, doing business as Byrne Products Co., New York, N. Y.
Filed May 9, 1930. Serial No. 300,167. PUBLISHED SEPTEMBER 16, 1930. Class 16.

278,104. LUBRICATING OILS. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif.
Filed June 26, 1928. Serial No. 268,716. PUBLISHED SEPTEMBER 16, 1930. Class 15.

278,105. GRAND AND UPRIGHT PIANOS, PLAYER PIANOS, AND PIANO PLAYERS. WURLITZER GRAND PIANO COMPANY, De Kalb, Ill.
Filed July 8, 1927. Serial No. 251,706. PUBLISHED SEPTEMBER 16, 1930. Class 36.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

278,106. (CLASS 37. PAPER AND STATIONERY.) WILCOX-MOSHER-LEFFHOLM COMPANY, Minneapolis, Minn. Filed May 17, 1930. Serial No. 300,769.

KOLOR KOTE

For Enamel Book Paper.
Claims use since Sept. 18, 1929.

278,107. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) GIBSON MUSICAL STRING COMPANY, Belleville, N. J. Filed May 9, 1930. Serial No. 300,186.

ALL WEATHER

For Strings for Banjos, Guitars, Harps, and Similar Musical Instruments.
Claims use since Jan. 4, 1929.

278,108. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CLARKE SANDING MACHINE COMPANY, Chicago, Ill. Filed Mar. 28, 1930. Serial No. 298,015.

The CLARKE

For Domestic Electric Vacuum Cleaners.
Claims use since June 18, 1927.

278,109. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) EMMA K. COOK, St. Louis, Mo. Filed Jan. 31, 1930. Serial No. 295,422.

PROTECTAFAN

For Electric-Fan Protectors.
Claims use since Oct. 1, 1928.

278,110. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) NATIONAL ELECTRIC PRODUCTS CORPORATION, Pittsburgh, Pa. Filed Jan. 10, 1930. Serial No. 294,644.

FIRE STOP

For Wires and Cables for Electrical Use.
Claims use since June 1, 1929.

278,111. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SUNSHINE PHARMACEUTICAL CO. INC., doing business as Inhalit Company of America, New York, N. Y. Filed Dec. 2, 1929. Serial No. 293,161.

INHALIT

For Liquid Inhalent for Colds.
Claims use since Oct. 1, 1929.

278,112. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NOVELTY CUTLERY COMPANY, Brooklyn, N. Y. Filed Nov. 22, 1929. Serial No. 292,746.

ORIGINAL
NEVA-KRAK

For Bone-Handle Knives of Base Metal and Bone and Imitation-Bone Handles for Knives.
Claims use since Sept. 27, 1929.

278,113. (CLASS 39. CLOTHING.) A. SCHRETER & SONS CO., INC., Baltimore, Md. Filed Nov. 21, 1929. Serial No. 292,685.

Deauville

For Cravats.
Claims use since Aug. 22, 1929.

278,114. (CLASS 39. CLOTHING.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Oct. 30, 1929. Serial No. 291,797.

Newport

For Women's Hats.
Claims use since Oct. 3, 1929.

278,115. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JANSEN & PRETZFELD, INC., New York, N. Y. Filed Oct. 30, 1929. Serial No. 291,772.

"ABDULLAH CREPE"

For Silk Piece Goods.
Claims use since Oct. 11, 1929.

278,116. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRI BENDEL, INC., New York, N. Y. Filed Oct. 8, 1929. Serial No. 290,776.

JASMIN DE JAPHX

For Perfumes, Bath Salts, Toilet Water, Face Powders, Lip Sticks, and Face Lotions.
Claims use since Sept. 1, 1929.

278,117. (CLASS 39. CLOTHING.) ADAM H. BARTEL COMPANY, Richmond, Ind. Filed Oct. 7, 1929. Serial No. 290,738.

HAMPTON SWISS
TAILOR MADE

For Men's, Ladies', and Children's Underwear.
Claims use since Sept. 16, 1929.

278,118. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) BENJAMIN & EDWARD J. GROSS CO., INC., New York, N. Y. Filed Sept. 28, 1929. Serial No. 290,359.

WEST POINT

For Finger Rings and Mountings Therefor.
Claims use since Sept. 26, 1929.

278,119. (CLASS 39. CLOTHING.) THE PHOENIX SHIRT COMPANY, New York, N. Y. Filed Sept. 19, 1929. Serial No. 289,982.

Harvard

For Men's and Boys' Dress Shirts.
Claims use since Aug. 15, 1929.

278,120. (CLASS 39. CLOTHING.) THE DALLAS CO., Des Moines, Iowa. Filed Sept. 16, 1929. Serial No. 289,821.

Pauline Kaye

For Women's and Misses' Ready-Made Dresses.
Claims use since Aug. 29, 1929.

278,121. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) WESTERN LEATHER BELTING COMPANY, Salt Lake City, Utah. Filed Sept. 13, 1929. Serial No. 289,774.

MOISTPRUF

For Leather Belting.
Claims use since May 9, 1929.

278,122. (CLASS 15. OILS AND GREASES.) INDIAN REFINING COMPANY, Lawrenceville, Ill. Filed Aug. 9, 1929. Serial No. 288,338.

WAXFREE

For Lubricating Oils and Greases and Oils and Greases in the Nature of Lubricants.
Claims use since July 31, 1929.

278,123. (CLASS 39. CLOTHING.) H. D. BOB COMPANY INC., New York, N. Y. Filed Aug. 4, 1929. Serial No. 287,954.

NEVER FADE

For Windbreakers.
Claims use since July 23, 1929.

278,124. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) INTERNATIONAL FIRE EQUIPMENT CORPORATION, West New Brighton, N. Y. Filed July 23, 1929. Serial No. 287,532.

Shur-Spray

For Stationary Automatic Fire Extinguishers.
Claims use since July 3, 1929.

278,125. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) KESSLER BROTHERS, New York, N. Y. Filed May 2, 1929. Serial No. 283,403.

VARIETY

For Jewelry for Personal Wear, Not Including Watches, Having Interchangeable Jewel Mountings.
Claims use since Apr. 30, 1929.

278,126. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ONEIDA COMMUNITY, LIMITED, Oneida, N. Y. Filed Mar. 28, 1929. Serial No. 281,517.

BENNINGTON

For Silver Flatware.
Claims use since Mar. 6, 1929.

278,127. (CLASS 12. CONSTRUCTION MATERIALS.) THE RUBEROID CO., New York, N. Y. Filed May 29, 1930. Serial No. 301,706.

Safendry

For Roofing and Building Paper.
Claims use since February, 1929.

278,128. (CLASS 39. CLOTHING.) EMIL GLICK, Cleveland, Ohio. Filed May 29, 1930. Serial No. 301,614.

GLICK NECKWEAR CO.
"THE TIE HOUSE OF AMERICA"

For Men's and Boys' Neckties.
Claims use since Jan. 1, 1922.

278,129. (CLASS 39. CLOTHING.) CLIFFORD T. HALL, New York, N. Y. Filed Oct. 2, 1930. Serial No. 306,315.

HALL and HALL

For Hats and Caps for Men, Women, and Children, Made of Felt, Wool, Silk, Straw, Fabric, and Combinations Thereof.
Claims use since Mar. 1, 1927.

278,130. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE COLORADO FUEL AND IRON COMPANY, Denver, Colo. Filed Sept. 23, 1930. Serial No. 305,965.

WOLF PROOF

For Wire Fence.
Claims use since July 1, 1921.

278,131. (CLASS 39. CLOTHING.) CHENANGO KNITTING COMPANY, INC., Sherburne, N. Y. Filed Sept. 13, 1930. Serial No. 305,657.

SHERBURNE

For Men's Silk, Cotton and Silk, and Cotton, Wool, Silk and Wool, and Cotton and Wool Hosiery.
Claims use since July 2, 1929.

278,132. (CLASS 17. TOBACCO PRODUCTS.) THE HOUSE OF CRANE, INC., Indianapolis, Ind. Filed Sept. 11, 1930. Serial No. 305,567.

CRANE'S IMPORTED

For Cigars.
Claims use since 1915.

278,133. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ED WHITE, Graysport, Miss. Filed Sept. 4, 1930. Serial No. 305,332.

ED WHITE'S
Honey-Radish

For Liquid Medicine for Bronchitis, Tuberculosis, Influenza, Colds, Croup, Coughs, and La Grippe.
Claims use since January, 1900.

278,134. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JOHNSON SUTURE CORPORATION, Cook County, Ill. Filed Aug. 11, 1930. Serial No. 304,464.

Chrome Twist

For Gut Strings.
Claims use since June 24, 1929.

278,135. (CLASS 39. CLOTHING.) BYCK BROTHERS & COMPANY, Louisville, Ky. Filed Aug. 11, 1930. Serial No. 304,448.

A Fashion MODEL

For Shoes Made of Leather, Fabric, or Combinations of These and/or with Leather, Rubber, or Gristle Soles.
Claims use since June, 1928.

278,136. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) WELTE-MIGNON PIANO CORPORATION, New York, N. Y. Filed Aug. 8, 1930. Serial No. 304,396.

WELTE

For Self-Playing Pianos and Piano Players.
Claims use since June 1, 1905.

278,137. (CLASS 39. CLOTHING.) STERLING MILLS, Ilion, N. Y. Filed Aug. 5, 1930. Serial No. 304,263.

MADE-TO-LAST

For Sweater Coats.
Claims use since January, 1911.

278,138. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE MARTHA ROLAND CO., Chicago, Ill. Filed July 9, 1930. Serial No. 303,304.

Mrs Roland's

For Preserved Fruits in Glass and Tin, Jams and Jellies in Glass and Tin, Honey (Strained) in Glass and Tin, Pickles (Processed) in Glass and Tin, Cantaloupe (Pickled) in Glass and Tin, Pickled Watermelon Rind in Glass and Tin, Pickled Peppers in Glass; Mincemeat (Processed) in Glass, Tin, and Wood; Olives, Green, Ripe, and Stuffed, in Glass and Tin; Tomatoes (Pickled) in Glass, Pickled Beets in Glass, Vegetable Relish in Glass, Peanut Butter in Glass and Tin, Salad Dressing in Glass and Tin, Table Syrup (Cane and Maple) in Glass and Tin, Pickled Onions in Glass, and Chili Sauce in Glass.
Claims use since Dec. 1, 1927.

278,139. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KEUFFEL & ESSER COMPANY, Hoboken, N. J. Filed June 18, 1930. Serial No. 302,539.

INKOFF

For Ink Eradicator.
Claims use since June 26, 1926.

TRADE-MARK REGISTRATIONS RENEWED

35,261. CERTAIN NAMED FOODS AND RELISHES. Registered October 16, 1900. THE M. A. GEDNEY PICKLING COMPANY. Renewed October 16, 1930, to M. A. Gedney Company, Minneapolis, Minn., a Corporation of Minnesota, by change of name.

35,491. BUCKLES, BUTTONS, AND CLASPS. Registered November 27, 1900. AMERICAN STEEL BUCKLE CO. Renewed November 27, 1930, to Alma Manufacturing Company of Baltimore, Baltimore, Md., a Corporation of Maryland, successor.

35,497. CONFECTIONERY IN TABLET FORM. Registered November 27, 1900. THE GARDINER-LUCAS COMPANY, New York, N. Y. Renewed November 27, 1930, to National Licorice Company, Brooklyn, N. Y., a Corporation of New York, assignee.

35,498. CERTAIN NAMED FOODS AND RELISHES. Registered November 27, 1900. THE M. A. GEDNEY PICKLING COMPANY. Renewed November 27, 1930, to M. A. Gedney Company, Minneapolis, Minn., a Corporation of Minnesota, by change of name.

35,586. ANTIFRICTION AND BEARING METAL. Registered December 11, 1900. SMITH-COURTNEY COMPANY, Richmond, Va., a Corporation of Virginia. Renewed December 11, 1930.

35,766. LEATHER. Registered January 15, 1901. JULLMAN SALZ & CO., San Francisco, Calif., a Corporation of California. Renewed January 15, 1931.

35,818. CERTAIN NAMED PAINTS AND PAINTERS' SUPPLIES. Registered January 22, 1901. PATTON PAINT COMPANY, Milwaukee, Wis. Renewed January 22, 1931, to Pittsburgh Plate Glass Company, Pittsburgh, Pa., a Corporation of Pennsylvania, successor.

35,986. HEATING APPARATUS. Registered February 26, 1901. THE RICHMOND STOVE COMPANY, Norwich, Conn. Renewed February 26, 1931, to Richmond Radiator Company, New York, N. Y., a Corporation of Delaware, successor.

36 018. DIURETICUM. Registered March 5, 1901. FARBENFABRIKEN OF ELBERFELD CO. Renewed March 5, 1931, to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York, assignee by mesne assignments.

36,115. CERTAIN NAMED PRINTED PUBLICATIONS AND PERIODICALS. Registered March 26, 1901. THE STUYVESANT COMPANY, New York, N. Y. Renewed March 26, 1931, to The Curtis Publishing Company, Philadelphia, Pa., a Corporation of Pennsylvania, assignee by mesne assignments.

36,131. CERTAIN NAMED MEDICAL COMPOUNDS. Registered March 26, 1901. WILLIAM D. DUNCAN. Renewed March 26, 1931, to Jennie Duncan Peltier, doing business as Duncan's Drug Store, Ottawa, Ill., successor.

36,165. HAMS, BACON, AND LARD. Registered April 2, 1901. CHARLES G. KRIEL. Renewed April 2, 1931, to The C. G. Kriel Company, Baltimore, Md., a Corporation of Maryland, successor.

36,221. CERTAIN NAMED BAKERY PRODUCTS. Registered April 9, 1901. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and Chicago, Ill. Renewed April 9, 1931, to National Biscuit Company, New York, N. Y., a Corporation of New Jersey.

36,237. CERTAIN NAMED LAUNDRY MACHINERY. Registered April 9, 1901. LOVELL MANUFACTURING COMPANY, Erie, Pa., a Corporation of Pennsylvania. Renewed April 9, 1931.

78,809. WHEAT FLOUR. Registered July 12, 1910. D. & A. LUCKENBACH, Bethlehem, Pa. Renewed July 12, 1930.

79,040. ROASTED COFFEE. Registered August 2, 1910. THE DAYTON SPICE MILLS COMPANY, Dayton, Ohio, a Corporation of Ohio. Renewed August 2, 1930.

79,194. CARBON PAPER AND TYPEWRITER RIBBONS. Registered August 16, 1910. THE DORSEY PRINTING CO. Renewed August 16, 1930, to The Dorsey Company, Dallas, Tex., a Corporation of Texas, by change of name.

79,196. WATCHES, WATCH MOVEMENTS, WATCH DIALS, AND WATCHCASES. Registered August 16, 1910. GEORGES DUCOMMUN. Renewed August 16, 1930, to Doxa Watch Factory, Georges Ducommun, Le Locle, Switzerland, assignee.

79,303. CIGARS. Registered August 23, 1910. JUSTIN SEUBERT, INC., Syracuse, N. Y. Renewed Aug. 23, 1930, to M. & N. Cigar Manufacturers, Inc., Cleveland, Ohio, a Corporation of Ohio, assignee.

79,335. A NUT BAR. Registered August 30, 1910. THE MAX GLICK COMPANY, Cleveland, Ohio, a Corporation of Ohio. Renewed August 30, 1930.

79,453. REMEDIES FOR CERTAIN DISEASES. Registered September 6, 1910. HIRAM L. TRUE. Renewed September 6, 1930, to Augusta True, McConnelsville, Ohio, successor.

79,537. CANNED FRUITS AND VEGETABLES. Registered September 13, 1910. TWOHY-EIMON MERCANTILE COMPANY. Renewed September 13, 1930, to The Eimon Mercantile Company, Superior, Wis., a Corporation of Wisconsin, by change of name.

79,591. WORSTED CLOTH PIECE GOODS. Registered September 20, 1910. MARTIN SONS AND COMPANY, LTD., Huddersfield, England, a Corporation of Great Britain. Renewed September 20, 1930.

79,614. HOSIERY. Registered September 20, 1910. E. M. TOWNSEND & Co. Renewed September 20, 1930, to Daum, Rogers, Spritzer Co., New York, N. Y., assignee.

79,811. LOCKETS. Registered October 11, 1910. BLISS BROTHERS COMPANY, Attleboro, Mass., a Corporation of Rhode Island. Renewed October 11, 1930.

79,839. MACHINERY PACKING OF ALL KINDS. Registered October 11, 1910. ROBERT A. KEASBEY COMPANY, New York, N. Y., a Corporation of New York. Renewed October 11, 1930.

79,930. CANNED CRAB MEAT. Registered October 18, 1910. PARROTT & Co., San Francisco, Calif., a Corporation of California. Renewed October 18, 1930.

80,089. GRAIN AND MIXED FOOD FOR STOCK. Registered November 1, 1910. SOUTH TEXAS GRAIN COMPANY, Houston, Tex., a Corporation of Texas. Renewed November 1, 1930.

80,095. SNAP BUTTONS USED AS GARMENT FASTENERS. Registered November 1, 1910. WALDES & Co., Prague-Wrschowitz, Austria-Hungary. Renewed November 1, 1930, to Waldes Koh-I-Noor, Inc., Long Island City, N. Y., a Corporation of New York, assignee by mesne assignments.

80,275. PREPARED RUBBER ROOFINGS. Registered November 29, 1910. FORD MANUFACTURING COMPANY. Renewed November 29, 1930, to Ford Roofing Products Company, Chicago, Ill., a Corporation of Illinois, by change of name.

80,293. CATNIP, CATNIP PREPARATION, AND CATNIP BALLS. Registered November 29, 1910. WALTER E. SMITH, Boston, Mass. Renewed November 29, 1930, to Charles C. Rogers, Cambridge, Mass., assignee.

80,390. LUBRICATION OILS. Registered December 13, 1910. TIDE WATER OIL COMPANY, New York, N. Y., a Corporation of New Jersey. Renewed December 13, 1930.

80,546. READY-MIXED PAINTS. Registered January 3, 1911. RINALD BROS. Renewed January 3, 1931, to Rinald Bros. Paint Works Inc., Philadelphia, Pa., a Corporation of Pennsylvania, successor.

80,559. GRAIN AND MIXED FOOD FOR STOCK. Registered January 3, 1911. SOUTH TEXAS GRAIN COMPANY, Houston, Tex., a Corporation of Texas. Renewed January 3, 1931.

80,581. CERTAIN PAINTERS' MATERIALS. Registered January 10, 1911. DENNY, HILBORN & ROSENBACH (THE WHITE COMPANY). Renewed January 10, 1931, to Denny, Hilborn & Rosenbach Inc., Philadelphia, Pa., a Corporation of Pennsylvania, assignee.

80,813. LEATHER BOOTS AND SHOES. Registered January 31, 1911. STEWART-DAWES SHOE COMPANY, Los Angeles, Calif., a Corporation of California. Renewed January 31, 1931.

80,825. A MOVABLE STAIRWAY. Registered February 7, 1911. FRANK E. BESSLER. Renewed February 7, 1931, to The Bessler Disappearing Stairway Company, Akron, Ohio, a Corporation of Ohio, assignee.

80,879. KEROSENE. Registered February 7, 1911. THE TEXAS COMPANY, Houston, Tex., and New York, N. Y. Renewed February 7, 1931, to The Texas Company, New York, N. Y., a Corporation of Delaware, assignee.

80,961. A TURPENTINE SUBSTITUTE CONSISTING OF BENZIN. Registered February 14, 1911. THE TEXAS COMPANY, Houston, Tex., and New York, N. Y. Renewed February 14, 1931, to The Texas Company, New York, N. Y., a Corporation of Delaware, assignee.

80,968. PAPER, FOLDED OR UNFOLDED, ENVELOPS, PHOTOGRAPH INCLOSURES. Registered February 21, 1911. THE AMERICAN PAPER GOODS COMPANY, Kensington, Conn., a Corporation of New Jersey. Renewed February 21, 1931.

81,055. AN ILLUSTRATED WEEKLY MAGAZINE. Registered February 28, 1911. CURTIS PUBLISHING COMPANY. Renewed February 28, 1931, to The Curtis Publishing Company, Philadelphia, Pa., a Corporation of Pennsylvania, by change of name.

81,136. A SEDATIVE AND HYPNOTIC. Registered March 7, 1911. FARBENFABRIKEN OF ELBERFELD COMPANY. Renewed March 7, 1931, to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York, assignee by mesne assignments.

81,166. A MEDICINAL CORDIAL. Registered March 7, 1911. THE PALISADE MANUFACTURING CO. Renewed March 7, 1931, to The Arlington Chemical Company, Yonkers, N. Y., a Corporation of New York, assignee by mesne assignments.

81,179. KEROSENE. Registered March 7, 1911. THE TEXAS COMPANY. Houston, Tex., and New York, N. Y. Renewed March 7, 1931, to The Texas Company, New York, N. Y., a Corporation of Delaware, assignee.

81,186. COTTON PIECE GOODS. Registered March 7, 1911. WHITE BROTHERS. Renewed March 7, 1931, to White Brothers, Inc., Winchendon, Mass., a Corporation of Massachusetts, successor.

81,228. A READY-MIXED PAINT. Registered March 14, 1911. PATTON PAINT COMPANY, Milwaukee, Wis. Renewed March 14, 1931, to Pittsburgh Plate Glass Company, Pittsburgh, Pa., a Corporation of Pennsylvania, assignee.

81,273. GRASS SEED. Registered March 21, 1911. THE HOLBROOK GROCERY CO., Keene, Woodsville, and Nashua, N. H. Renewed March 21, 1931, to The Holbrook Grocery Co., Keene, N. H., a Corporation of New Hampshire, assignee by mesne assignments.

81,345. CERTAIN FOODS. Registered March 28, 1911. LUTZ & SCHRAMM COMPANY, Pittsburgh, Pa., a Corporation of Pennsylvania. Renewed March 28, 1931.

81,351. SHOE POLISHES, DRESSINGS, AND CREAMS. Registered March 28, 1901. NATIONAL SHOE POLISH MANUFACTURING COMPANY, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed March 28, 1931.

81,357. SHEETINGS, SHEETS, BOLSTER, AND PILLOWCASES. Registered March 28, 1911. RICE-STIX DRY GOODS CO., St. Louis, Mo., a Corporation of Missouri. Renewed March 28, 1931.

81,387. AN ANTISEPTIC AND DISINFECTANT. Registered April 4, 1911. FARBENFABRIKEN OF ELBERFELD COMPANY. Renewed April 4, 1931, to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York, assignee by mesne assignments.

81,405. BISCUIT. Registered April 4, 1911. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Renewed April 4, 1931, to National Biscuit Company, New York, N. Y., a Corporation of New Jersey.

81,408. WHEAT FLOUR. Registered April 4, 1911. NEW PRAGUE FLOURING MILL COMPANY, New Prague, Minn. Renewed April 4, 1931, to International Milling Company, Minneapolis, Minn., a Corporation of Delaware, assignee.

LABELS

REGISTERED DECEMBER 2, 1930

38,313.—*Title:* CHELSEA ARMS. For Cigars. JOSEPH H. BECK & Co., INC., Philadelphia, Pa. Published November 1, 1930.

38,314.—*Title:* CANADIAN PALE. For Bottled Liquid Made with Malt and Hops and Containing Less Than One-Half of One Per Cent of Alcohol by Volume. CANADIAN PALE PRODUCTS ASSOCIATION, Harrisburg, Pa. Published July 21, 1930.

38,315.—*Title:* K-I-K REAL HOP FLAVORED MALT SYRUP. For Malt Syrup. P. CHANQUET & SON, Oakland, Calif. Published June 1, 1930.

38,316.—*Title:* PUMPO-KNICKEL. For Bread. EDELSAUER SERVICE CORPORATION, Chicago, Ill. Published September 10, 1930.

38,317.—*Title:* CARD RACE. For Puzzle Employing Numbered Blocks. THE EMBOSSING COMPANY, Albany, N. Y. Published March 10, 1930.

38,318.—*Title:* KITTY KELLY. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published September 17, 1930.

38,319.—*Title:* MICHEL SHOES. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published October 1, 1930.

38,320.—*Title:* SMART STYLES. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published August 18, 1930.

38,321.—*Title:* DR. MERRILL'S. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published October 20, 1930.

38,322.—*Title:* OHRBACH'S. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published August 18, 1930.

38,323.—*Title:* PARAMOUNT. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published October 10, 1930.

38,324.—*Title:* SUPERIOR SHOE CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published September 26, 1930.

38,325.—*Title:* THE HENRI SHOE. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published September 29, 1930.

38,326.—*Title:* UNITED SHOE STORES. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published August 22, 1930.

38,327.—*Title:* PANDORA. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published September 26, 1930.

38,328.—*Title:* ST. REGIS SHOE CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published October 3, 1930.

38,329.—*Title:* MILLER'S INCORPORATED. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published September 29, 1930.

38,330.—*Title:* HYGEIA QUILL TOOTHPICKS. For Quill Toothpicks. THE HYGEIA ANTISEPTIC TOOTHPICK CO., INC., New York, N. Y. Published October 14, 1930.

38,331.—*Title:* RED-E-KOFFE. For Coffee. JOSHUA ISRAEL, doing business as Red-E-Koffee Company, Atlantic City, N. J. Published October 31, 1930.

38,332.—*Title:* OZARK CONCORD GRAPES, "THE PRIDE OF KNOBVIEW". For Grapes. KNOBVIEW FRUIT GROWERS COOPERATIVE ASSOCIATION, Knobview, Mo. Published July 15, 1930.

38,333.—*Title:* KRUEGER'S AMBER GINGER ALE. For Beverage. KRUEGER BEVERAGE COMPANY, Newark, N. J. Published May 22, 1930.

38,334.—*Title:* KRUEGER'S PALE DRY GINGER ALE. For Beverage. KRUEGER BEVERAGE COMPANY, Newark, N. J. Published May 22, 1930.

38,335.—*Title:* KRUEGER'S ROOT BEER. For Beverage. KRUEGER BEVERAGE COMPANY, Newark N. J. Published May 22, 1930.

38,336.—*Title:* KRUEGER'S CLEAR COCOA. For Beverage. KRUEGER BEVERAGE COMPANY, Newark, N. J. Published May 22, 1930.

38,337.—*Title:* GRANDMA'S. For Cake. LANTZ BROS. BAKING Co., St. Louis, Mo. Published October 29, 1930.

38,338.—*Title:* GRANDMA'S. For Cake. LANTZ BROS. BAKING Co., St. Louis, Mo. Published October 29, 1930.

38,339.—*Title:* GRANDMA'S. For Cake. LANTZ BROS. BAKING Co., St. Louis, Mo. Published October 29, 1930.

38,340.—*Title:* QUALITY SERVICE. For Tissue Paper. MILLER BROTHERS & Co., Marion, Ind. Published October 21, 1930.

38,341.—*Title:* DEAD LINE. For Powder for the Extermination of Insects. FRED F. MILLER, Chicago, Ill. Published October 29, 1930.

38,342.—*Title:* NAIVETTE PADS. For Pads Used in the Permanent Waving of Hair. NAIVETTE, INC., New York, N. Y. Published September 22, 1930.

38,343.—*Title:* THE BUCCANEER BOX. For Candies. NORRIS, INC., Atlanta, Ga. Published September 20, 1930.

38,344.—*Title:* BLUE DIAMOND. For Honey. PACKING AND MARKETING, INCORPORATED, San Francisco, Calif. Published July 1, 1930.

38,345.—*Title:* NOKOF—COUGH UP 10¢ AND COUGH NO MORE. For Cough Drops. HUMBERT PELOSI AND LOUIS PELOSI, Philadelphia, Pa. Published October 8, 1930.

38,346.—*Title:* PATERS. For Malt Syrup. HARRY PERLOFF, doing business as Lucky Dutchman Malt Company, Philadelphia, Pa. Published October 14, 1930.

38,347.—*Title:* DOX. For Malt Syrups, Extracts and Nonalcoholic Beverages. JOSEPH S. POLEFSKY, doing business as Continental Pure Products Company, New York, N. Y. Published January 3, 1930.

38,348.—*Title:* RING-ROUT. For Medicament for the Treatment of a Skin Affection. RING-ROUT, INC., New Orleans, La. Published October 18, 1930.

38,349.—*Title:* A HOUSE OF SCHLAGE LOCKS. For Door Locks. SCHLAGE LOCK COMPANY, San Francisco, Calif. Published July 14, 1930.

38,350.—*Title:* SCOLDY BOB. For Hairpins. SCOLDING LOCKS CORPORATION, Appleton, Wis. Published Sept. 12, 1930.

38,351.—*Title:* O BOY. For Bread. SOUTHERN SERVICE CORPORATION, Atlanta, Ga. Published August 27, 1930.

38,352.—*Title:* HI-BOY. For Cigars. G. A. STROBECK, doing business as The G. A. Strobeck Company, Red Lion, Pa. Published August 19, 1930.

38,353.—*Title:* TIP TOP TWIST BREAD. For Bread. WARD BAKING COMPANY, New York, N. Y. Published November 5, 1930.

PRINTS

REGISTERED DECEMBER 2, 1930

12,828.—*Title:* DEALERS' DESCRIPTIVE PRICE LIST. For Radio Device. AMPERITE CORPORATION, New York, N. Y. Published September 10, 1930.

12,829.—*Title:* CLAIM YOUR SHARE OF YOUTH. For Cleansing Cream, Skin Tonic, Velva Cream, and Orange Skin Food. ELIZABETH ARDEN INC., doing business as Elizabeth Arden, New York, N. Y. Published October 20, 1930.

12,830.—*Title:* ATOMOL. For Concentrated Inhalant for the Treatment of Nasal Catarrh. ATOMOL MFG. Co., New Haven, Conn. Published May 1, 1930.

12,831.—*Title:* THE TRICK MARBLE GAME. For Game Apparatus. GEORGE DEPREZ, Chicago, Ill. Published October 24, 1930.

12,832.—*Title:* ON NIPPY DAYS IN CAROLINA—OR ANYWHERE ELSE—WHAT A JOYOUS DISH THIS IS! For Heinz Tomato Ketchup. H. J. HEINZ COMPANY, Pittsburgh, Pa. Published November 1, 1930.

12,833.—*Title:* RED, LUSCIOUS TOMATOES . . . RICH, THICK CREAM . . . SPICES SO DELICATE, SO FLAVORFUL. For Cream-of-Tomato Soup. H. J. HEINZ COMPANY, Pittsburgh, Pa. Published November 1, 1930.

12,834.—*Title:* MARTIN'S CHOCOLATE CHIPS. For a Food Product. MARTIN BISCUIT COMPANY, INC., Birmingham, Ala. Published July 16, 1930.

12,835.—*Title:* INDIGESTION ENDED OR NO PAY. For Indigestion Medicine. W. C. MCKEE, doing business as Pepso-Ginger Company, Columbus, Ga. Published September 29, 1930.

12,836.—*Title:* PARKE-DAVIS MILK OF MAGNESIA. For Milk of Magnesia. PARKE, DAVIS & COMPANY, Detroit, Mich. Published September 20, 1930.

12,837.—*Title:* PARKE-DAVIS MILK OF MAGNESIA. For Milk of Magnesia. PARKE, DAVIS & COMPANY, Detroit, Mich. Published September 20, 1930.

12,838.—*Title:* "LOOK ME UP IF YOU'RE OUT MY WAY. . . ." For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published May 27, 1930.

12,839.—*Title:* SIESTA. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published June 19, 1930.

12,840.—*Title:* RIGHT OVER THE FENCE. For Tobacco. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published June 21, 1930.

12,841.—*Title:* "PRECIOUS." For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published June 21, 1930.

12,842.—*Title:* VANTAGE IN. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published June 27, 1930.

12,843.—*Title:* NOW FOR A CAMEL! For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published July 19, 1930.

12,844.—*Title:* EN ROUTE. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published August 16, 1930.

12,845.—*Title:* PLEASURE AHOY! For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published August 16, 1930.

12,846.—*Title:* SCORE ANOTHER FOR CAMEL. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published September 1, 1930.

12,847.—*Title:* WHY FIDDLE AROUND. For Tobacco. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published September 1, 1930.

12,848.—*Title:* GET A LOAD OF THIS . . . For Tobacco. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published August 16, 1930.

12,849.—*Title:* RIGHT DOWN MY ALLEY. For Tobacco. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published July 19, 1930.

12,850.—*Title:* THREESOME. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published May 24, 1930.

12,851.—*Title:* SOMETHING BORROWED. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published April 17, 1930.

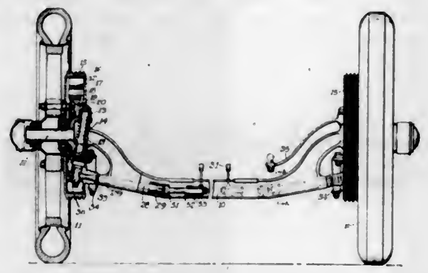
12,852.—*Title:* CAMELS ARE ODDS-ON FAVORITES IN EVERY FIELD . . . THERE ISN'T A CIGARETTE . . . ANYWHERE . . . THAT CAN TOUCH THEM FOR FRAGRANCE, FOR MILDNESS, FOR DOWNRIGHT SMOKING PLEASURE. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published April 18, 1930.

12,853.—*Title:* MILK. For Milk. HENRY C. SOUCHERAY, St. Paul, Minn. Published September 19, 1930.

REISSUES

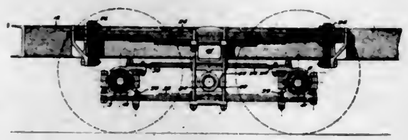
DECEMBER 2, 1930

17,888. BRAKE OPERATING MECHANISM. PAUL BASTIEN, Lansing, Mich., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 10, 1929. Serial No. 384,910. Original No. 1,639,071, dated Aug. 16, 1927, Serial No. 582,682, filed Aug. 18, 1922. 10 Claims. (Cl. 188—78.)



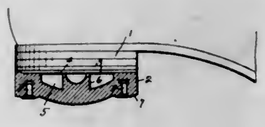
1. In a brake mechanism, a brake drum, a pair of complementary brake shoes pivoted within said drum at corresponding extremities, the other extremities of said shoes having bearing surfaces, a spreader positioned between and engaging said bearing surfaces, said spreader having a central aperture in one end thereof and a slot in one side thereof extending transversely to said aperture, a head extending into the aperture in said spreader providing a journal therefor, and a rotatable shaft connected to said head and extending through the slot in said spreader, said spreader being free to swivel with said brake shoes and being rotatable with said head to spread said shoes in any position it may assume while swiveling upon said head.

17,889. ROAD VEHICLE. ROLLIE B. FAGEOL, Los Angeles, Calif., assignor to The Eight Wheel Motor Vehicle Company, San Francisco, Calif., a Corporation of California. Filed Jan. 24, 1930. Serial No. 423,241. Original application filed Apr. 23, 1923, Serial No. 633,867. Renewed Apr. 7, 1928. Original No. 1,692,891, dated Nov. 27, 1928. 11 Claims. (Cl. 280—124.)



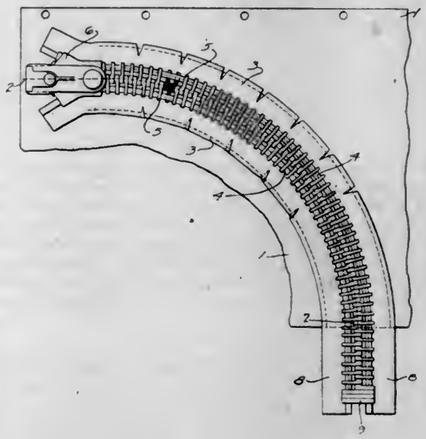
1. In a road vehicle, a pair of substantially parallel axes; means interconnecting said axles, said means comprising a leaf spring and connections permitting universal movement of each of said axles with relation to said spring; a bracket pivotally supported from the mid portion of said spring; a second leaf spring supported at its mid portion from said bracket; yielding connections supported from each end of said second spring; and a frame supported from said yielding connections.

17,890. RUBBER CUSHIONED HEEL. HARRY G. NORWOOD, Baltimore, Md., assignor, by mesne assignments, to Balloon Rubber Heel Corporation, a Corporation of Delaware. Filed Aug. 7, 1929. Serial No. 284,055. Original No. 1,638,701, dated Aug. 9, 1927, Serial No. 2,632, filed Jan. 15, 1925. 7 Claims. (Cl. 36—35.)



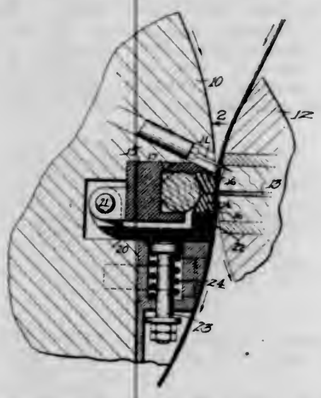
1. A cushion heel, comprising a resilient heel body of rubber having a tread surface, an upper surface, and a peripheral surface, said upper surface being provided with a recess in inwardly spaced relation to said peripheral surface, and a cushioning element also of rubber and of greater resiliency than said heel body disposed in said recess, and substantially integrally connected to the heel body, said heel having a space in relation to said cushioning element into which said element expands in its compressed relation.

17,891. FASTENER. GIDEON SUNDBACK, Meadville, Pa., assignor to Hookless Fastener Company, a Corporation of Pennsylvania. Filed Dec. 3, 1929. Serial No. 411,357. Original application filed Apr. 2, 1917, Serial No. 159,139. Divided and application filed Aug. 15, 1921, Serial No. 492,621. Patent No. 1,508,133, dated Sept. 9, 1924. 26 Claims. (Cl. 24—205.)



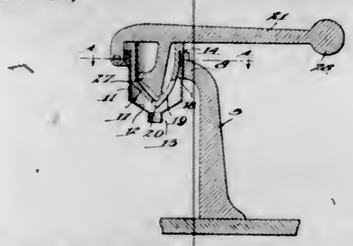
6. A pair of body portions having relatively stiff edges, flexible stringers secured to and extending beyond said edges, means connecting the edges of said stringers, and means on said stringers for progressively connecting and disconnecting said edges and permitting said stringer extensions to stretch out end to end when said body portions are to have maximum opening.

17,892. CUTTING CUSHION FOR FOLDING CYLINDERS. HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Aug. 27, 1930. Serial No. 478,261. Original No. 1,766,807, dated June 24, 1930, Serial No. 308,686, filed Sept. 27, 1928. 8 Claims. (Cl. 164—66.)



1. The combination with a cutting blade, of a cushion for receiving the blade, a carrier or support for the cushion, and solid means behind the cushion for backing it up, capable of being turned to present different surfaces to the blade.

17,893. JUICE EXTRACTOR. CHARLES MEYER, Miami, Fla., assignor to Press-Or Company, a Corporation of Florida. Filed May 10, 1930. Serial No. 451,446. Original No. 1,742,089, dated Dec. 31, 1929, Serial No. 261,326, filed Mar. 13, 1928. 6 Claims. (Cl. 100—41.)



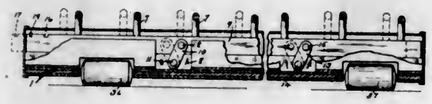
4. A press comprising a wall curved longitudinally and transversely, an abutment wall at an angle to the curved wall, a pivoted plunger mounted to swing on its axis and move toward and away from the abutment wall, said curved wall having slots therein which are radial to the axis of the plunger, and are open and unobstructed at their lower ends, said slots being continuous and unbroken and extending away from the lower end of the curved wall.

17,894. DYEING. ALBERT BODMER, Wattwil, Switzerland, assignor to Heberlein & Co., A. G., Wattwil, Switzerland, a Corporation of Switzerland. Filed Sept. 14, 1929. Serial No. 392,749. Original No. 1,694,526, dated Dec. 11, 1928, Serial No. 121,736, filed July 10, 1926, and in Germany July 14, 1925. 17 Claims. (Cl. 8—5.)

1. Method of modifying the dyeing properties of cellulosic fibers which consists in treating the fibers with alcoholic caustic alkali and acting on the same with a compound of the class consisting of phosphorous halogen compound and triphenyl-phosphate capable of making the cellulosic fibers relatively immune to substantive dyestuffs and relatively attractive to basic dyestuffs.

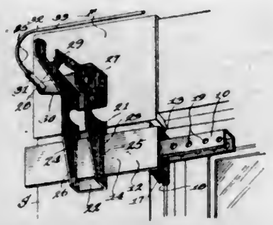
15. A cellulosic fiber in which at least some of the cellulose has been subjected to caustic alkali deposited thereon from an alcoholic solution and to a phosphorous halogen compound, and which is relatively more resistant to substantive dyestuffs and more attractive to basic dyestuffs.

17,895. LOOSE-LEAF BINDER. JOHN L. MCMILLAN, Syracuse, N. Y., assignor to McMillan Book Company, Syracuse, N. Y., a Corporation of New York. Filed July 30, 1930. Serial No. 471,861. Original No. 1,747,257, dated Feb. 18, 1930, Serial No. 367,572, filed May 31, 1929. 11 Claims. (Cl. 129—17.)



10. A loose leaf book comprising a back, a pair of plates positioned at opposite sides of the back, a set of prongs mounted upon each plate, and a pair of crank arms each having one end pivoted to one of the plates and its opposite end pivotally connected to the back.

17,896. SUPPORTING BRACKET FOR WINDOW HANGINGS. KARL H. WHITNEY, Kirksville, Mo., assignor to Whitney Manufacturing Company, Kirksville, Mo., a Corporation of Missouri. Filed Feb. 15, 1928. Serial No. 254,571. Original No. 1,573,286, dated Feb. 16, 1926, Serial No. 6,579, filed Feb. 3, 1925. 1 Claim. (Cl. 156—28.)



A window hanging support comprising a pair of bracket members having angularly disposed end portions, a resilient pad applied to the inner surface of one end portion of each bracket member, each of said end portions being provided with parallel slots, and slidable rail sections each having an end portion passing through the slots of the respective bracket members whereby the rail section is pivotally connected with the respective bracket members, the said end portion of the rail section engaging in the side surface of the pad.

DESIGNS

DECEMBER 2, 1930

82,648. LAMP. ALBERT L. ARENBERG, Chicago, Ill. Filed Mar. 22, 1930. Serial No. 35,005. Term of patent 7 years.



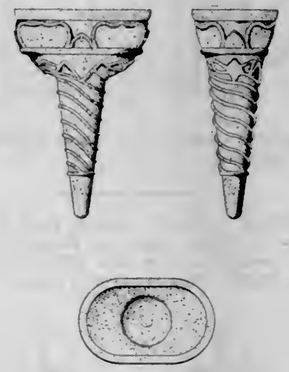
The ornamental design for a lamp, as shown and described.

82,649. LAMP. ALBERT L. ARENBERG, Chicago, Ill. Filed Apr. 11, 1930. Serial No. 35,221. Term of patent 7 years.



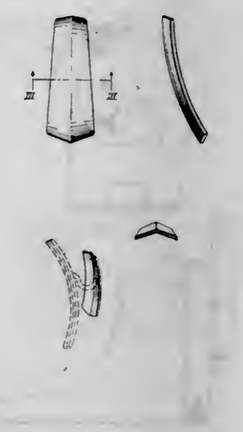
The ornamental design for a lamp, as shown and described.

82,650. ICE-CREAM CONE. JAMES L. BALTON, Baltimore, Md. Filed Mar. 20, 1930. Serial No. 34,986. Term of patent 14 years.



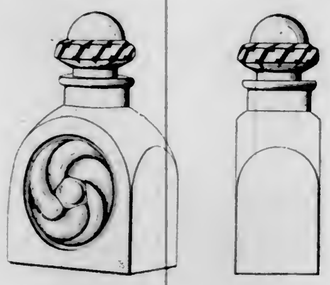
The ornamental design for an ice cream cone, as shown.

82,651. GUARD FOR AN OPHTHALMIC MOUNTING. NELSON M. BAKER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Aug. 26, 1929. Serial No. 32,535. Term of patent 14 years.



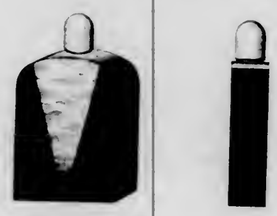
The ornamental design for a guard for an ophthalmic mounting as shown and described.

82,652. BOTTLE. RAYMOND BARBAS, Paris, France, assignor to La Société Anonyme Jean Patou, Paris, France, a Corporation of France. Filed Oct. 11, 1930. Serial No. 37,229. Term of patent 7 years.



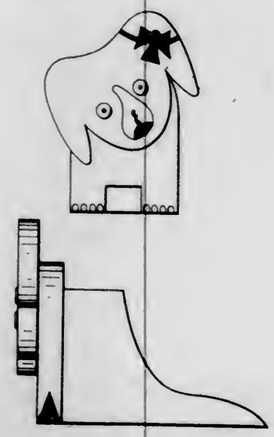
The ornamental design for a bottle substantially as shown and described.

82,653. BOTTLE. RAYMOND BARBAS, Paris, France, assignor to La Société Anonyme Jean Patou, Paris, France, a Corporation of France. Filed Oct. 11, 1930. Serial No. 37,231. Term of patent 7 years.



The ornamental design for a bottle substantially as shown and described.

82,654. DOORSTOP. JAMES W. BARNETT, Spokane, Wash. Filed Sept. 16, 1930. Serial No. 36,986. Term of patent 3½ years.



The ornamental design for a door stop as shown.

82,655. PEDESTAL FOR A GOBLET OR SIMILAR ARTICLE. CHARLES C. BEAM, Pittsburgh, Pa., assignor to United States Glass Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 13, 1930. Serial No. 36,650. Term of patent 14 years.



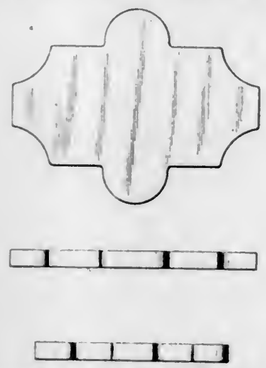
The ornamental design for a pedestal for a goblet or similar article, as shown.

82,656. DOLL. CAMILLE C. BLAIR, Los Angeles, Calif. Filed July 29, 1930. Serial No. 36,506. Term of patent 14 years.



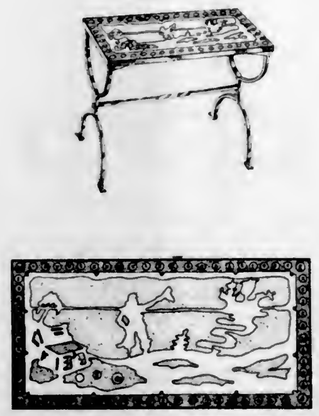
The ornamental design for a doll substantially as shown and described.

82,657. TILE BLOCK. BECHER B. BOLTON, Rosemead, Calif., assignor to Willa Steen, Brea, Calif. Filed Dec. 12, 1929. Serial No. 33,755. Term of patent 14 years.



The ornamental design for a tile block as shown.

82,658. COFFEE TABLE. HUGH C. BROWN, Asheville, N. C. Filed Oct. 21, 1929. Serial No. 33,125. Term of patent 3½ years.



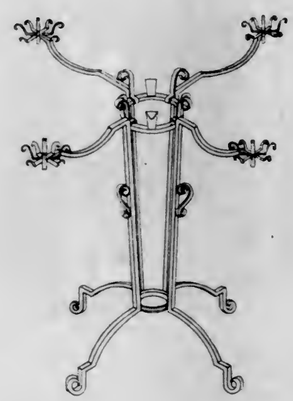
The ornamental design for a coffee table as shown.

82,659. WEIGHING-SCALE CASING. LEVERETT D. CHAMBERS, New York, N. Y., assignor to Camco Scale Corporation, New York, N. Y. Filed Oct. 4, 1930. Serial No. 37,140. Term of patent 14 years.



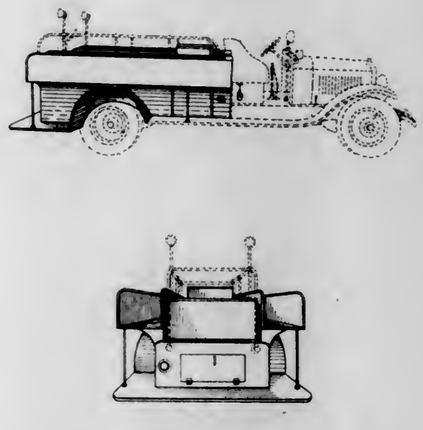
The ornamental design for a weighing scale casing, as shown.

82,660. FLOWERPOT HOLDER. JOSEPH DAMELIO, Youngstown, Ohio. Filed Apr. 23, 1930. Serial No. 35,365. Term of patent 14 years.



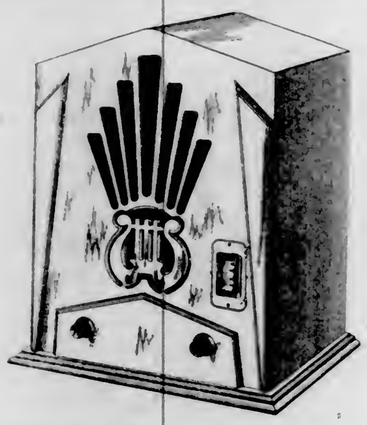
The ornamental design for a flower pot holder as shown.

82,661. FIRE TRUCK. ALBERT DE LA MARE, San Francisco, Calif. Filed July 23, 1930. Serial No. 36,442. Term of patent 7 years.



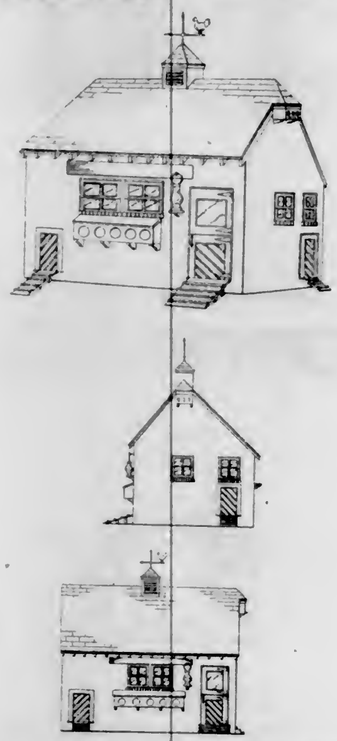
The ornamental design for a fire truck as shown.

82,662. RADIOCABINET OR SIMILAR ARTICLE. HAROLD C. EDWARDS, Kansas City, Mo. Filed Sept. 11, 1930. Serial No. 36,942. Term of patent 3½ years.



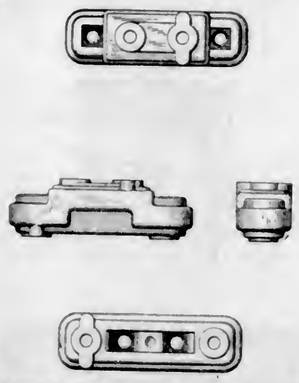
The ornamental design for a radiocabinet or similar article, as shown and described.

82,663. RESTAURANT BUILDING. ALBERT J. ERRETT and CYRIL P. PESEK, Minneapolis, Minn., assignors to Hen House, Inc., Minneapolis, Minn., a Corporation of South Dakota. Filed Sept. 5, 1930. Serial No. 36,881. Term of patent 14 years.



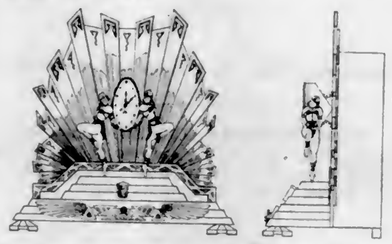
The ornamental design for a restaurant building substantially as shown.

82,664. INSULATION BLOCK FOR ELECTRIC TERMINALS. EDWARD A. EVERETT, Long Island City, N. Y. Filed July 21, 1930. Serial No. 36,411. Term of patent 14 years.



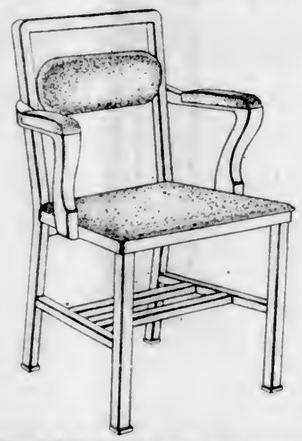
The ornamental design for an insulation block for electric terminals, as shown.

82,665. COMBINED RADIO RECEIVER CABINET AND CLOCK. HARRY M. FARRAND, Los Angeles, Calif. Filed Jan. 17, 1930. Serial No. 34,170. Term of patent 3½ years.



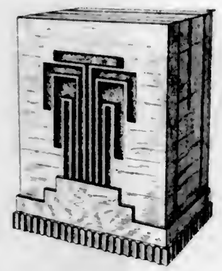
The ornamental design for a combined radio receiver cabinet and clock, substantially as shown.

82,666. CHAIR. WILLIAM S. FERRIS, Elkhart, Ind., and EVAN C. HARTER, Sturgis, Mich. Filed Oct. 2, 1930. Serial No. 37,114. Term of patent 14 years.



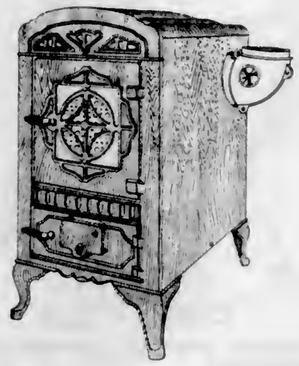
The ornamental design for a chair substantially as shown.

82,667. RADIOCABINET OR SIMILAR ARTICLE. HERMAN L. FINNEGAN and PRENTISS O. LANHAM, Kansas City, Mo., assignors to Harold Edwards, Kansas City, Mo. Filed Aug. 26, 1930. Serial No. 36,764. Term of patent 7 years.



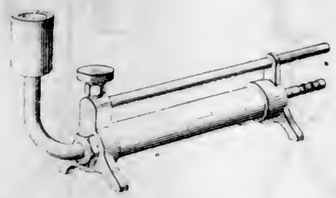
The ornamental design for a radio cabinet or similar article as shown, and described.

82,668. STOVE. HARRY H. FLEER, Quincy, Ill., assignor to Orbon Stove Co., Belleville, Ill., a Corporation of Delaware. Filed Aug. 25, 1930. Serial No. 36,756. Term of patent 7 years.



The ornamental design for a stove, substantially as shown and described.

82,669. DENTAL GAS BURNER. PERCY M. FORSTER, Berkeley, Calif. Filed Aug. 18, 1930. Serial No. 36,698. Term of patent 14 years.



The ornamental design for a dental gas burner substantially as shown.

82,670. DISPLAY CARD OR SIMILAR ARTICLE. SOLOMON H. GOLDBERG, Chicago, Ill., assignor to The Hump Hairpin Manufacturing Co., Chicago, Ill., a Corporation of West Virginia. Filed May 2, 1930. Serial No. 35,479. Term of patent 14 years.



The ornamental design for a display card or similar article, as shown and described.

82,671. FINGER RING OR ARTICLE OF SIMILAR NATURE. EDWARD J. GROSS, New Rochelle, N. Y., assignor to Benjamin & Edward J. Gross Co., Inc., New York, N. Y. Filed Dec. 4, 1929. Serial No. 33,632. Term of patent 3½ years.



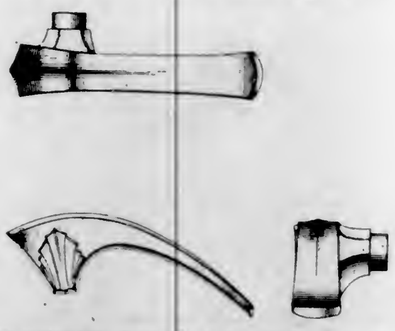
The ornamental design for a finger ring or article of similar nature, as shown.

82,672. FINGER RING OR ARTICLE OF SIMILAR NATURE. EDWARD J. GROSS, New Rochelle, N. Y., assignor to Benjamin & Edward J. Gross Co., Inc., New York, N. Y. Filed Dec. 5, 1929. Serial No. 33,660. Term of patent 3½ years.



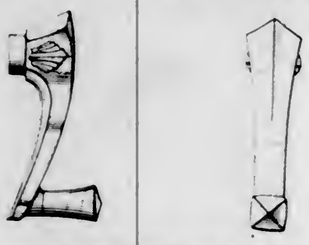
The ornamental design for a finger ring or article of similar nature, as shown.

82,673. HANDLE FOR DOOR OF AUTOMOBILE OR THE LIKE. JOHN STERLING GULLBORG, Chicago Ill., assignor to Alemite Die Casting & Mfg. Co., Woodstock, Ill., a Corporation of Delaware. Filed Sept. 11, 1930. Serial No. 36,935. Term of patent 3½ years.



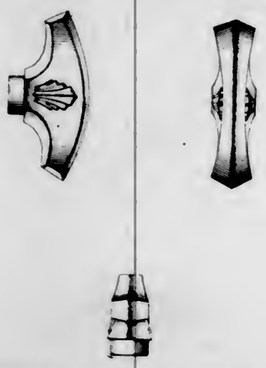
The ornamental design for a handle for door of automobile or the like as shown.

82,674. HANDLE FOR AUTOMOBILE WINDOW LIFTER OR THE LIKE. JOHN STERLING GULLBORG, Chicago, Ill., assignor to Alemite Die Casting & Mfg. Co., Woodstock, Ill., a Corporation of Delaware. Filed Sept. 11, 1930. Serial No. 36,936. Term of patent 3½ years.



The ornamental design for a handle for automobile window lifter or the like as shown.

82,675. HANDLE FOR AUTOMOBILE WINDOW LIFTER OR THE LIKE. JOHN STERLING GULLBORG, Chicago, Ill., assignor to Alemite Die Casting & Mfg. Co., Woodstock, Ill., a Corporation of Delaware. Filed Sept. 11, 1930. Serial No. 36,937. Term of patent 3½ years.



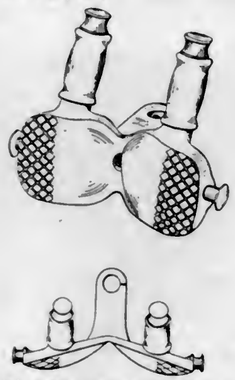
The ornamental design for a handle for automobile window lifter or the like as shown.

82,676. HANDLE ESCUTCHEON FOR AUTOMOBILE HARDWARE OR THE LIKE. JOHN STERLING GULLBORG, Chicago, Ill., assignor to Alemite Die Casting & Mfg. Co., Woodstock, Ill., a Corporation of Delaware. Filed Sept. 11, 1930. Serial No. 36,938. Term of patent 3½ years.



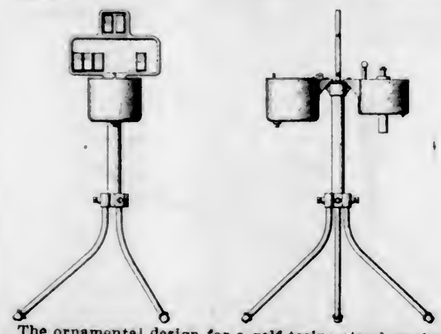
The ornamental design for a handle escutcheon for automobile hardware or the like as shown.

82,677. MASSAGING OSCILLATOR. DON HEYER, Los Angeles, Calif. Filed May 13, 1930. Serial No. 35,624. Term of patent 3½ years.



The ornamental design for a massaging oscillator, as shown and described.

82,678. GOLF-TEEING STAND OR SIMILAR DEVICE. JOHN H. HOLM, Kenosha, Wis., assignor to Holm Company, Kenosha, Wis., a Corporation of Wisconsin. Filed July 14, 1930. Serial No. 36,342. Term of patent 3½ years.



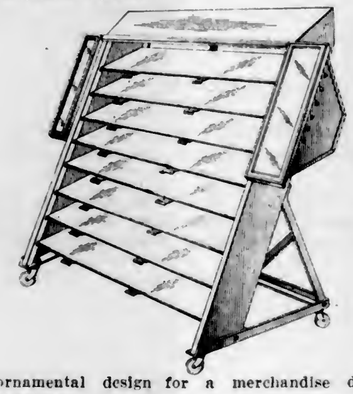
The ornamental design for a golf teeing stand or similar device, as shown.

82,679. BOTTLE STOPPER. RAY R. HUTCHESON, Richmond Hill, N. Y., assignor to Wm. Demuth & Co., a Corporation of New York. Filed Sept. 23, 1930. Serial No. 37,054. Term of patent 3½ years.



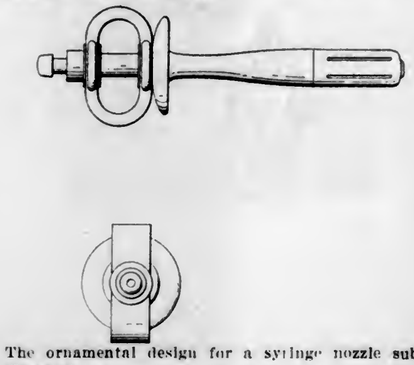
The ornamental design for a bottle stopper substantially as shown and described.

82,680. MERCHANDISE-DISPLAY CABINET. CARL C. IRWIN, Kirkwood, Mo., assignor to Ely & Walker Dry Goods Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 5, 1930. Serial No. 36,882. Term of patent 7 years.



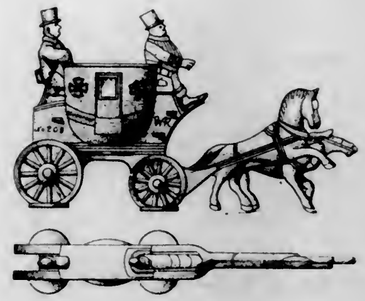
The ornamental design for a merchandise display cabinet, as shown.

82,681. SYRINGE NOZZLE. GERSON KAUFMAN, New York, N. Y. Filed Aug. 25, 1930. Serial No. 36,761. Term of patent 14 years.



The ornamental design for a syringe nozzle substantially as shown.

82,682. DOORSTOP OR THE LIKE. LOUIS J. LAROCHE, Reading, Pa. Filed Sept. 24, 1930. Serial No. 37,061. Term of patent 3½ years.



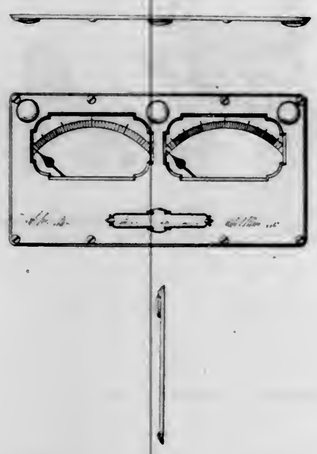
The ornamental design for a door stop or the like, as shown.

82,683. ENSEMBLE SUIT. DOROTHY LONG, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 27, 1930. Serial No. 36,804. Term of patent 3½ years.



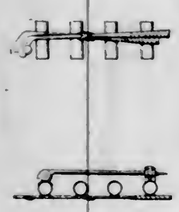
The ornamental design for an ensemble suit substantially as shown and described.

82,684. INSTRUMENT PANEL FOR SWITCHBOARDS. PAUL MACGAHAN, Orange, N. J., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed June 16, 1930. Serial No. 36,060. Term of patent 14 years.



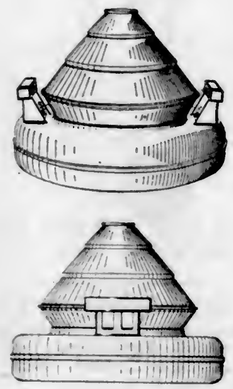
The ornamental design for an instrument panel for switchboards substantially as shown.

82,685. PIN FOR HOLDING GOLF TEES. ROYAL MARCHER, New York, N. Y., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 20, 1930. Serial No. 36,712. Term of patent 7 years.



The ornamental design for a pin for holding golf tees, as shown.

82,686. HUMIDIFIER CASING. BERTRAM M. MILLS, Pawtucket, R. I., assignor to The Standard Engineering Works, Pawtucket, R. I., a Corporation of Rhode Island. Filed Oct. 9, 1930. Serial No. 37,199. Term of patent 14 years.



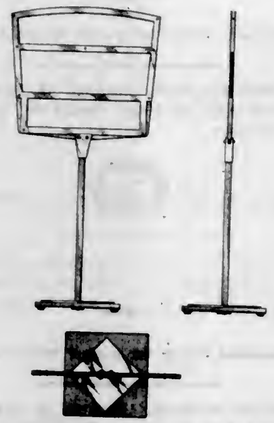
The ornamental design for a humidifier casing substantially as shown.

82,687. ELECTRIC BULB OR SIMILAR ARTICLE. GOTTFRIED NIEBEL, New York, N. Y. Filed Dec. 31, 1929. Serial No. 33,986. Term of patent 14 years.



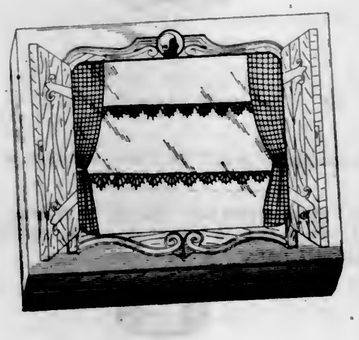
The ornamental design for an electric bulb or similar article substantially as shown.

82,688. DISPLAY DEVICE. TEX O'ROURKE, New York, N. Y., assignor to Card Display Inc., New York, N. Y., a Corporation of New York. Filed Sept. 10, 1930. Serial No. 36,925. Term of patent 14 years.



The ornamental design for a display device, as shown.

82,689. BOX. ROBERT WALTER PHELPS, Chicago, Ill., assignor to Julia King's Candy Corporation, Chicago, Ill., a Corporation of Illinois. Filed Sept. 17, 1930. Serial No. 37,000. Term of patent 7 years.



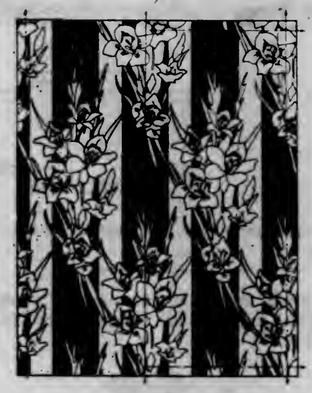
The ornamental design for a box as shown and described.

82,690. GLOBE FOR INCLOSED LIGHTING UNITS. PETER PARLATO, Astoria, N. Y., assignor to Max Schaefer Co., Inc., a Corporation of New York. Filed Sept. 9, 1930. Serial No. 36,918. Term of patent 3½ years.



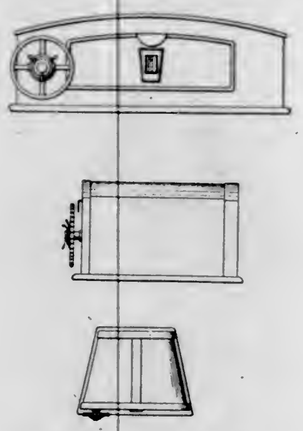
The ornamental design for a globe for inclosed lighting units substantially as shown.

82,691. TEXTILE FABRIC. ETHEL PARSONS, New York, N. Y., assignor to The Stearns & Foster Company, Lockland, Ohio, a Corporation of Ohio. Filed July 24, 1929. Serial No. 32,182. Term of patent 3½ years.



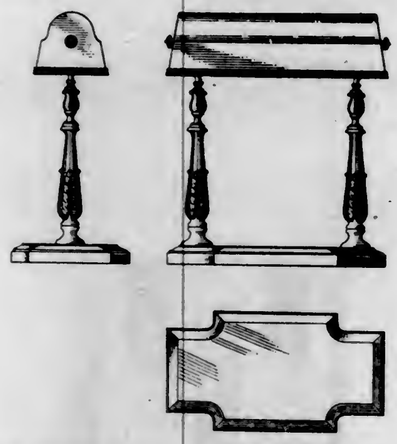
The ornamental design for textile fabric substantially as shown and described.

82,692. RADIOCABINET. MARTIN PASTERNAK, New York, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware. Filed Jan. 16, 1930. Serial No. 34,161. Term of patent 3½ years.



The ornamental design for a radiocabinet substantially as shown.

82,693. PORTABLE ELECTRIC LAMP. HENRY M. PETERS, Chicago, Ill., assignor to Faries Manufacturing Company, Decatur, Ill., a Corporation of Illinois. Filed Feb. 19, 1930. Serial No. 34,589. Term of patent 3½ years.



The ornamental design for portable electric lamp, as shown.

82,694. SHOE BUCKLE. SAMUEL M. RIKER, Chester, N. J. Filed Aug. 26, 1930. Serial No. 36,770. Term of patent 7 years.



The ornamental design for a shoe buckle, as shown.

82,695. SHOE BUCKLE. SAMUEL M. RIKER, Chester, N. J. Filed Aug. 26, 1930. Serial No. 36,771. Term of patent 7 years.



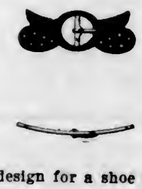
The ornamental design for a shoe buckle, as shown.

82,696. SHOE BUCKLE. SAMUEL M. RIKER, Chester, N. J. Filed Aug. 26, 1930. Serial No. 36,773. Term of patent 7 years.



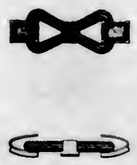
The ornamental design for a shoe buckle, as shown.

82,697. SHOE BUCKLE. SAMUEL M. RIKER, Chester, N. J. Filed Aug. 26, 1930. Serial No. 36,774. Term of patent 7 years.



The ornamental design for a shoe buckle, as shown.

82,698. SHOE ORNAMENT. SAMUEL M. RIKER, Chester, N. J. Filed Aug. 26, 1930. Serial No. 36,775. Term of patent 7 years.



The ornamental design for a shoe ornament, as shown.

82,699. SHOE BUCKLE. SAMUEL M. RIKER, Chester, N. J. Filed Aug. 26, 1930. Serial No. 36,776. Term of patent 7 years.



The ornamental design for a shoe buckle, as shown.

82,700. SHOE BUCKLE. SAMUEL M. RIKER, Chester, N. J. Filed Aug. 26, 1930. Serial No. 36,779. Term of patent 7 years.



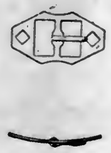
The ornamental design for a shoe buckle, as shown.

82,701. SHOE BUCKLE. SAMUEL M. RIKER, Chester, N. J. Filed Aug. 26, 1930. Serial No. 36,781. Term of patent 7 years.



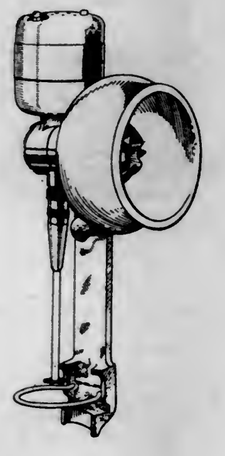
The ornamental design for a shoe buckle, as shown.

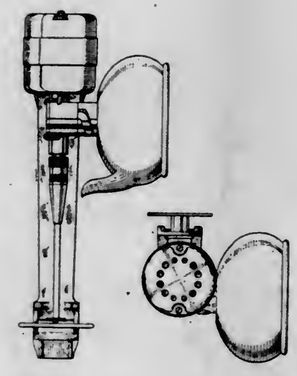
82,702. SHOE BUCKLE. SAMUEL M. RIKER, Chester, N. J. Filed Aug. 26, 1930. Serial No. 36,782. Term of patent 7 years.



The ornamental design for a shoe buckle, as shown.

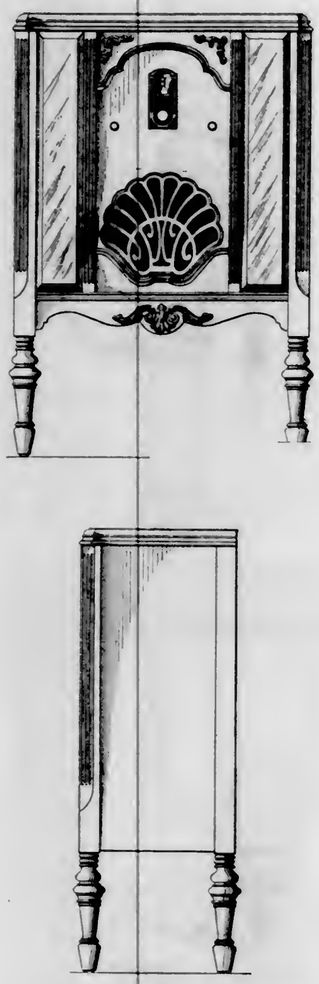
82,703. COMBINED DRINK MIXER AND JUICE EXTRACTOR. CLARENCE RINGWALD, North Hampton, Ohio, assignor to Robbins & Myers, Inc., Springfield, Ohio, a Corporation of Ohio. Filed Feb. 17, 1930. Serial No. 34,582. Term of patent 14 years.





The ornamental design for a combined drink mixer and juice extractor, as shown.

82,704. CABINET. DAVID ROBERTS, Collingswood, N. J., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 28, 1930. Serial No. 34,320. Term of patent 7 years.





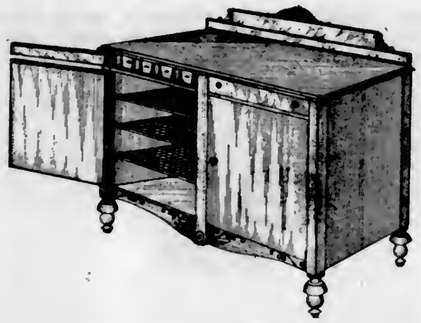
The ornamental design for a cabinet, as shown.

82,705. FINGER RING. JACOB H. SCHAEFFER, Brooklyn, N. Y. Filed June 11, 1930. Serial No. 36,015. Term of patent 7 years.



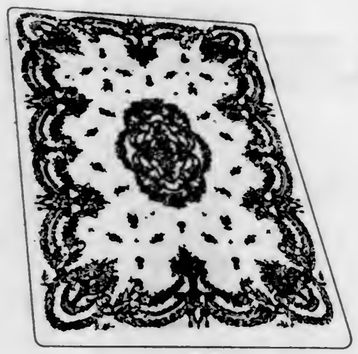
The ornamental design for a finger ring, as shown.

82,706. REFRIGERATOR. JAMES G. SCOTT, Washington, D. C. Filed Mar. 25, 1930. Serial No. 35,019. Term of patent 14 years.



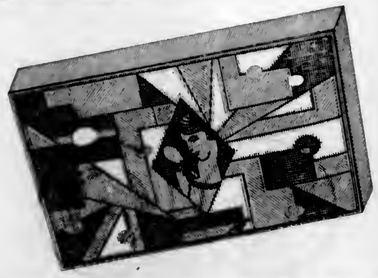
The ornamental design for a refrigerator, as shown.

82,707. MATTRESS COVER. MAX SHEROVER, New York, N. Y., assignor to Golding Bros. Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 18, 1930. Serial No. 37,015. Term of patent 3½ years.



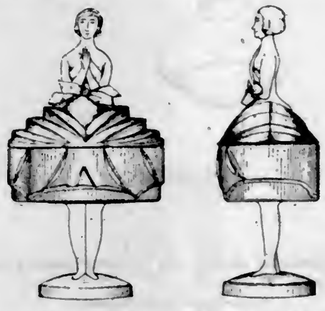
The ornamental design for a mattress cover substantially as shown.

82,708. BOX LID. FRANK J. SCHLEICHER, St. Louis, Mo. Filed Sept. 29, 1930. Serial No. 37,086. Term of patent 7 years.



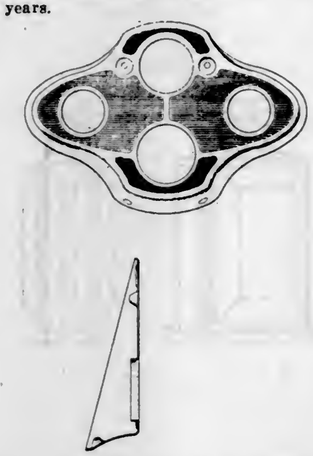
The ornamental design for a box lid, substantially as shown and described.

82,709. FACE-POWDER CONTAINER. MILTON SIERAD, New York, N. Y., assignor to George W. Button Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 16, 1930. Serial No. 36,983. Term of patent 7 years.



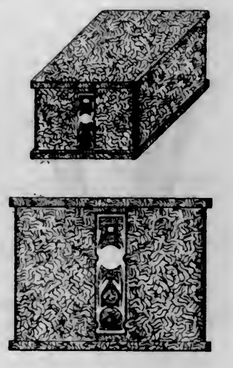
The ornamental design for a face powder container substantially as shown.

82,710. INSTRUMENT PANEL. LAURENCE S. SHELDRICK, Dearborn, Mich., assignor to Ford Motor Company, Dearborn, Mich., a Corporation of Delaware. Filed June 13, 1930. Serial No. 36,032. Term of patent 14 years.



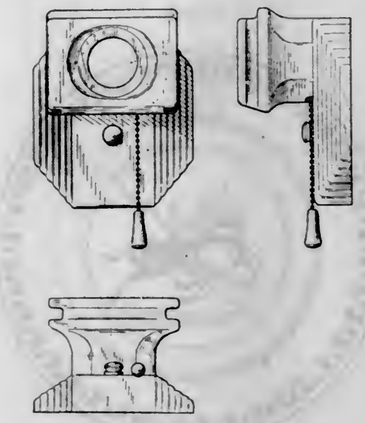
The ornamental design for an instrument panel as shown.

82,711. RADIOCABINET. FREDERICK W. STEIN, Atchison, Kans. Filed Mar. 17, 1930. Serial No. 34,907. Term of patent 3½ years.



The ornamental design for a radio cabinet, as shown.

82,712. LIGHTING-FIXTURE BRACKET OR ARTICLE OF SIMILAR NATURE. WALTER VON NESSEN, New York, N. Y., assignor to Efcolite Corporation, Trenton, N. J. Filed Sept. 17, 1930. Serial No. 36,994. Term of patent 7 years.



The ornamental design for a lighting fixture bracket, or article of similar nature, as shown.

82,713. ESCUTCHEON PLATE. FRED WEINDEL, Jr., Allentown, Pa., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 4, 1930. Serial No. 37,142. Term of patent 7 years.



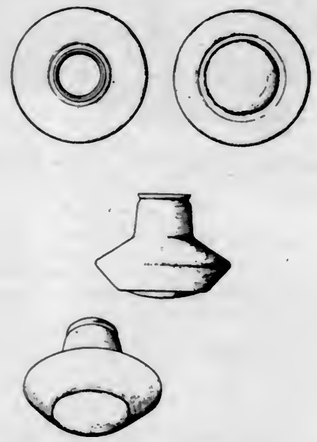
The ornamental design for an escutcheon plate, as shown.

82,714. PLATE OR SIMILAR ARTICLE. JOSEPH WUYTS, Staten Island, N. Y., assignor to Black, Starr and Frost, New York, N. Y. Filed Sept. 22, 1930. Serial No. 37,034. Term of patent 3½ years.



The ornamental design for a plate or similar article, as shown.

82,715. SEMIINDIRECT DIFFUSING BOWL. FREDERICK CHARLES BAKER, Portland, Oreg. Filed Sept. 16, 1930. Serial No. 36,981. Term of patent 7 years.



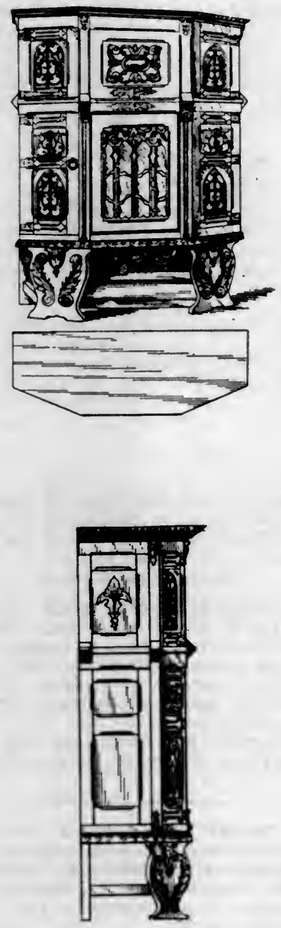
The ornamental design for a semi-indirect diffusing bowl as shown.

82,716. BOTTLE. RAYMOND BARBAS, Paris, France, assignor to La Société Anonyme Jean Patou, Paris, France, a Corporation of France. Filed Oct. 11, 1930. Serial No. 37,230. Term of patent 7 years.

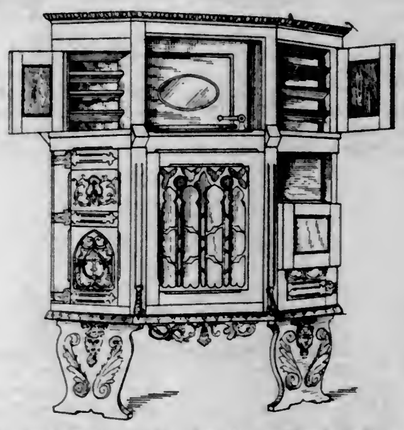


The ornamental design for a bottle, as shown.

82,717. COMBINED RADIO AND PHONOGRAPH CABINET. GEORGE L. GILBERT, Lakewood, Ohio. Filed Sept. 6, 1930. Serial No. 36,884. Term of patent 14 years.

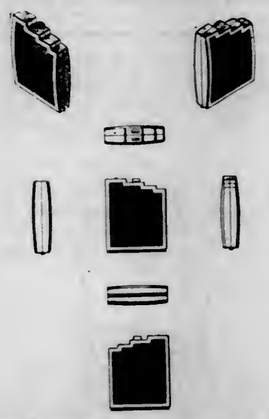


82,717—Continued.



The ornamental design for a combined radio and phonograph cabinet, as shown and described.

82,718. COMPACT OR SIMILAR ARTICLE. FELIX B. MILLER, Attleboro, Mass., assignor to William F. Denney, Philadelphia, Pa. Filed Oct. 26, 1929. Serial No. 33,176. Term of patent 7 years.



The ornamental design for a compact or similar article, as shown and described.

PATENTS

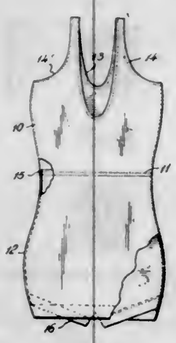
GRANTED DECEMBER 2, 1930

1,783,173. MOUTH ORGAN. JACOB HOHNER, Trossingen, Germany. Filed Oct. 25, 1927, Serial No. 228,533, and in Germany Mar. 7, 1927. 5 Claims. (Cl. 84—377.)



4. A combination harmonica and casing comprising a pair of casing members turnably mounted upon a hinge pin, said casing member being so mounted intermediate the ends thereof, spring means mounted on said hinge pin, and adapted to force the casing members into the closing position, guide means mounted upon the said hinge pin, and adapted to engage a harmonica so that the said harmonica can be slid into and out of the said casing, said harmonica having a guide pin connected thereto which passes through a slot in the rear portion of said guide means, said harmonica also having a member at the rear end thereof which is adapted to be engaged by the rear edges of said casing members, when said harmonica is located within the casing.

1,783,174. BATHING SUIT. WALTER D. IDE, Piqua, Ohio, assignor to B. V. D. Company, Inc., Baltimore, Md., a Corporation of Delaware. Filed Jan. 28, 1930. Serial No. 423,964. 2 Claims. (Cl. 2—67.)



1. A garment which comprises a trunk portion and a pants portion connected to said trunk portion, the pants portion comprising a front divided to form leg members, a back having a straight horizontal top and divided to form leg members, and a gusset lying between the divided parts of the front and back, the front and back having side edges of substantially the same length connected together, the back elsewhere than at the side edges being longer than the front.

1,783,175. STARTING DEVICE FOR FAN MOTORS. RICHARD H. JORDAN, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 13, 1928. Serial No. 305,726. 3 Claims. (Cl. 172—179.)

1. In a power motor, the combination with an energizing winding and a voltage-reducing winding having a plurality of taps, electrically connected in series circuit with the energizing winding, and a switch lever for selectively engaging the taps, of centrifugally-actuable

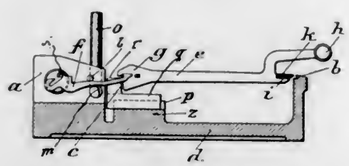


means operatively associated with the voltage-reducing winding for initially short circuiting it when the switch lever is caused to engage predetermined taps for starting the motor.

1,783,176. MANUFACTURE OF SOFT AND PLIABLE MASSES FROM CELLULOSE ESTERS. OSKAR LOEHR, Uerdingn (Niederrhein), Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed June 1, 1928, Serial No. 282,267, and in Germany May 7, 1926. 9 Claims. (Cl. 106—40.)

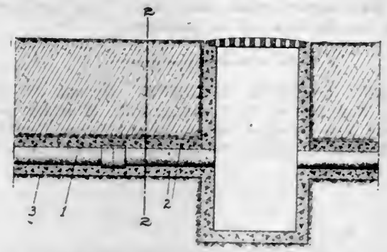
9. A new composition of matter comprising acetyl cellulose, an ester of a polyglycol, a solvent therefor and a diluent.

1,783,177. MEANS FOR SETTING TYPE LEVERS. HANS LUCE, Dusseldorf, Germany, assignor to Rheinische Metallwaaren- und Maschinenfabrik Sömmerda Aktiengesellschaft, Sommerda, Germany. Filed Dec. 27, 1928, Serial No. 328,708, and in Germany Dec. 23, 1927. 3 Claims. (Cl. 153—32.)



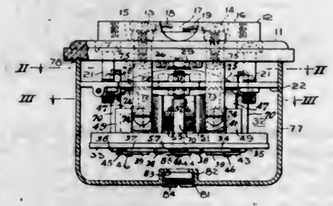
1. A device for bending type levers comprising means extending up to the portion to be bent for holding said lever against movement, an extension member adapted to be secured to the portion to be bent, and cooperating means on said extension and on said holding means for indicating the bending and twisting of said lever.

1,783,178. CONDUIT CONSTRUCTION. JOHN F. MAKOWSKI, Oakland, Calif., assignor to Fireproof Wall Company, Reno, Nev., a Corporation of Nevada. Filed Apr. 15, 1929. Serial No. 355,141. 8 Claims. (Cl. 247—27.)



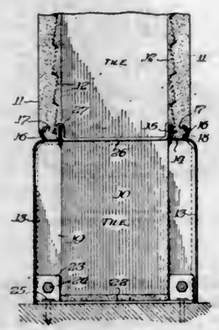
7. A conduit comprising soapstone, clay and cement mixed together in the preferred proportions by weight of two parts of soapstone, one and one-half parts of clay and one part of cement intimately mixed together.

1,783,179. THERMOSTATIC SWITCH. HOWARD D. MATTHEWS, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 23, 1927. Serial No. 221,413. 3 Claims. (Cl. 200—122.)



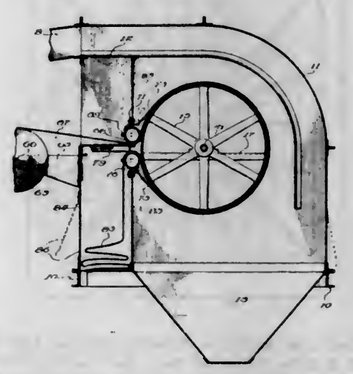
1. A thermally actuable switch including a casing, a combined terminal-supporting and cover member for the casing, a plate in the casing supported from the cover member, a contact table supported from the plate, a bimetallic element supported from the plate, on that side thereof adjacent to the contact table, and an adjustable heating element mounted on said contact table at that side thereof adjacent to the plate.

1,783,180. BASEBOARD CONSTRUCTION. ISAAC A. BAUM, Chicago, Ill. Filed Dec. 27, 1927. Serial No. 242,628. 6 Claims. (Cl. 189—87.)



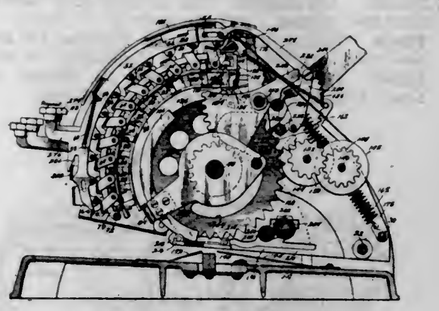
1. In combination, a pair of metal baseboard elements each having a vertical flange at its upper margin, and a narrow spacer having hook ends adapted to engage said flanges and hold the elements against lateral separation.

1,783,181. AUTOMATIC RESISTANCE-CONTROLLED AIR AND GAS FILTER. HANS E. BIAKHOLZ, Chicago, Ill., assignor, by mesne assignments, to American Air Filter Company, Inc., Louisville, Ky., a Corporation of Delaware. Filed Dec. 23, 1927, Serial No. 242,080. Renewed May 1, 1930. 9 Claims. (Cl. 183—62.)



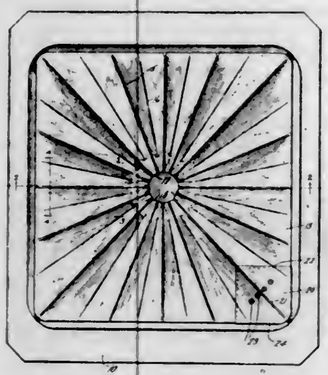
6. An air and gas filter comprising the combination of a housing, a drum journaled in said housing, a web of filtering paper supported on said drum, means for inducing a flow of air through said filtering paper and means automatically controlled by the resistance of said filtering paper to the passage of air therethrough for rotating said drum whereby fresh filtering paper is brought into position on said drum and used filtering paper is discharged from position thereon.

1,783,182. CHECK PROTECTOR. JOHN W. CARLSON, Chicago, Ill., assignor to Hedman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 24, 1927. Serial No. 242,470. 10 Claims. (Cl. 101—20.)



1. In a machine of the class described, the combination of a plurality of tiers of settable stops, a plurality of manipulative keys for setting said stops, a bail connected to each of said keys, a carriage slidable from tier to tier of said stops, a plurality of dogs pivoted on said carriage having sliding contact with said bails and adapted to overlie a tier of said stops, whereby depression of any one of said keys will cause the operative setting of one of said stops in one of said tiers, and means operated by the depression of any one of said keys to advance said carriage from one tier to the next adjacent tire of stops.

1,783,183. BROILER. CLAUDE M. DIBBLE, Joliet, Ill., assignor to Moore Brothers Company, Joliet, Ill., a Corporation of Illinois. Filed Sept. 26, 1927. Serial No. 222,032. 7 Claims. (Cl. 53—5.)

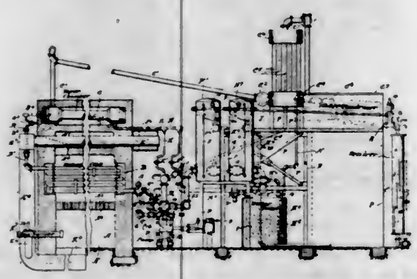


1. A drip pan having a draining opening and a plurality of grooves radiating from the opening, the ends of the grooves adjacent the opening widening out to a flattened discharge edge.

1,783,184. PROCESS OF TREATING CELLULOSIC MATERIAL. CAMILLE DREYFUS, New York, N. Y., and GEORGE SCHNEIDER, Cumberland, Md., assignors to Celanese Corporation of America, a Corporation of Delaware. Filed Mar. 12, 1927. Serial No. 175,004. 8 Claims. (Cl. 260—101.)

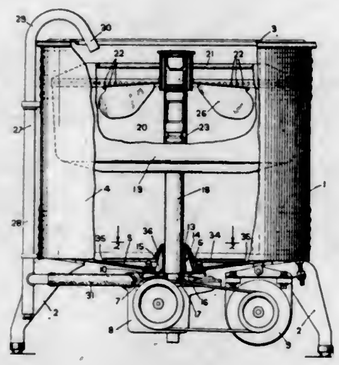
1. A process of treating cellulosic material which consists in subjecting the cellulosic material to a high degree of vacuum, introducing into the cellulosic material, while the same is under reduced pressure, a heated lower fatty acid and allowing the acid to act upon the cellulosic material until all portions of the latter are in suitable condition for esterification.

1,783,185. APPARATUS FOR PRODUCING LOWER-BOILING-POINT HYDROCARBONS. CARBON P. DUBBS, Wilmette, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Nov. 4, 1918, Serial No. 260,957. Renewed June 9, 1926. 8 Claims. (Cl. 196—99.)



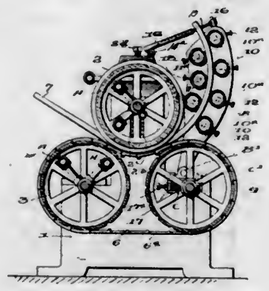
4. An apparatus for treating hydrocarbons, comprising a furnace, a cracking coil therein, a vapor chamber receiving products of conversion from said cracking coil, a reflux condenser in communication with said vapor chamber, a pair of tanks, means for admitting raw oil to one of the tanks through a valve actuated by the level of oil within said tank, means for discharging light residue from the vapor chamber, means for introducing to the cracking coil a hydrocarbon mixture consisting of oil from said raw oil tank, said light residue from the vapor chamber, and reflux condensate from the reflux condenser, independent means for passing heavy residue from the vapor chamber to the other of said tanks, and liquid level means within said other tank operative to control the discharge of oil therefrom.

1,783,186. LAUNDRY MACHINE. GEORGE W. DUNHAM, New Haven, Conn., assignor to Whirldry Corporation, New Haven, Conn., a Corporation of New York. Filed Jan. 8, 1927. Serial No. 159,783. 1 Claim. (Cl. 68—18.)



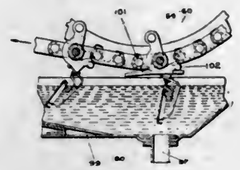
In a clothes washing machine, a tank having a conical bottom sloping to an opening in said bottom, a post rising from said bottom at said opening, a receptacle mounted in said tank on said post, means for continuously circulating washing liquid from said opening back through said receptacle back to the opening, and a large flat strainer having a large effective area during low water in said tank disposed over said opening and around said post.

1,783,187. WOOD-BENDING MACHINE. CHARLES W. ELLIOTT, Seymour, Ind. Filed Mar. 11, 1927. Serial No. 174,533. 5 Claims. (Cl. 144—255.)



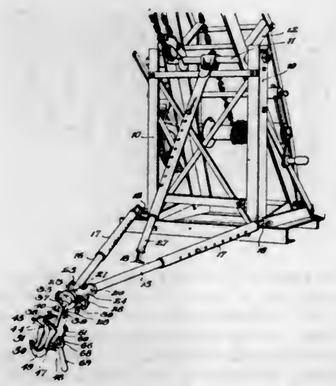
1. A wood bending machine of the class described comprising a plurality of rollers, bearings therefor, said rollers being spaced apart and arranged in triangular relation to permit the work to pass therebetween, the uppermost roller being a driven roller, said upper roller having a plurality of longitudinally spaced grooves in its surface, and sectional work confining rings removably seated in said grooves.

1,783,188. METHOD OF COATING METAL ARTICLES. JAMES S. GEORGE and ROGER S. SPERRY, Waterbury, Conn., assignors to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Original application filed Aug. 11, 1925, Serial No. 49,524. Divided and this application filed Dec. 23, 1926. Serial No. 156,620. 8 Claims. (Cl. 91—68.)



2. The method of coating articles with lacquer or the like, which comprises submerging the articles in a bath of the coating material, withdrawing the articles from the bath at a rate of emergence substantially the same as the rate of drain of the lacquer from the emerging articles, rocking the articles back and forth across the horizontal after complete withdrawal from the bath to periodically reverse the direction of drain of the lacquer on the articles, and drying.

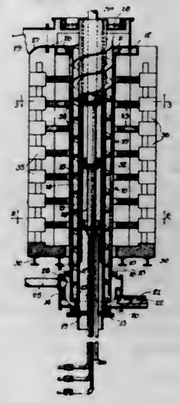
1,783,189. TOWING MECHANISM. EARL F. GREEN, York, Pa. Filed Aug. 19, 1927. Serial No. 214,085. 7 Claims. (Cl. 280—33.14.)



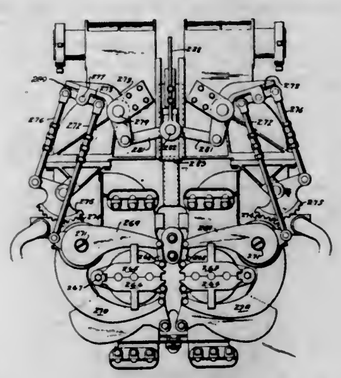
5. In combination, a service truck, a clamp fixedly secured in spaced relation thereto by three diverging arms at least two of which are pivoted to the truck, a hitch, and a towing pole having universal connections with both the clamp and hitch.

1,783,190. CARBONIZING APPARATUS. OTTO H. HERTEL, Chicago, Ill., assignor to Old Ben Coal Corporation, Chicago, Ill., a Corporation of Delaware. Filed May 7, 1925. Serial No. 28,614. 16 Claims. (Cl. 202—118.)

1. A carbonizing apparatus comprising, in combination, a cylindrical retort, a tubular rotor in said retort having helical flights thereon filling the space between the walls of the rotor and the walls of the retort, said rotor being operated to convey material from end to end through the retort, means outside the retort for heating said retort in zones, and means within said rotor for heating the retort in zones, said means including controls to equalize the temperature inside and outside at the several zones.



1,783,191. MACHINE FOR FORMING GLASS ARTICLES. RICHARD LA FRANCE, Toledo, Ohio, assignor to Owens-Illinois Glass Company, Toledo, Ohio, a Corporation of Ohio. Original application filed Apr. 22, 1924, Serial No. 708,172. Divided and this application filed Oct. 30, 1926. Serial No. 145,140. 2 Claims. (Cl. 49—42.)



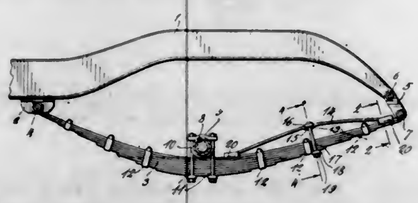
1. In a glass forming machine, the combination of a pair of molds arranged side by side and each comprising separable sections, a pair of levers, operating connections between each lever and the sections of one mold for closing the molds when the levers are operated in one direction, a slide block, and toggle links pivotally connected to said slide block and to said levers for transmitting motion from the slide block to the levers, the pivotal point of connection between each toggle link and the slide block being shiftable relatively to the slide block to permit an equalization of pressure transmitted through the toggle links to the molds when one mold is brought to a closed position in advance of the other.

1,783,192. STRAPPING JOINT. JOHN W. LESLIE, Evanston, Ill., assignor, by mesne assignments, to Signode Steel Strapping Company, a Corporation of Delaware. Filed Mar. 12, 1928, Serial No. 260,911. Renewed Mar. 16, 1929. 16 Claims. (Cl. 24—23.)



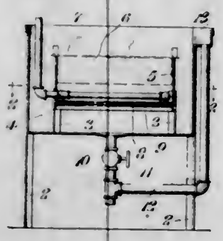
1. In a joint for interconnecting overlapping binder ends, a plurality of deformations therein for interlocking the binder ends, said deformations being of lesser intensity at the ends of the joint than at the central portion of the joint.

1,783,193. SNUBBER FOR AUTOMOBILES. EDWARD MATTHEWS, Denver, Colo. Filed Mar. 26, 1928. Serial No. 264,747. 2 Claims. (Cl. 267—48.)



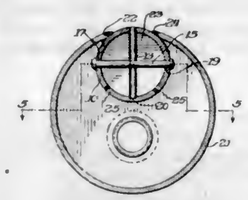
1. A snubber for preventing excessive rebound of semi-elliptical multiple leaf springs provided with a master leaf, comprising an arched auxiliary spring provided with a shallow transverse depression on its convex side, means for securing the arched spring to the master leaf of the multiple leaf spring, said means comprising a bar located in the depression, and a rubber pad between the ends of the arched spring and the master leaf, said pads having each side provided with spaced parallel flanges adapted to embrace the sides of the master leaf and the sides of the end portions of the arched spring.

1,783,194. APPARATUS FOR CLEANING AIR-FILTER CELLS. JOHN R. MCCONNELL, Anchorage, and ALBERT S. LEWIS, Jr., Louisville, Ky., assignors, by mesne assignments, to American Air Filter Company, Inc., Louisville, Ky., a Corporation of Delaware. Filed Dec. 9, 1926. Serial No. 153,583. 1 Claim. (Cl. 141—1.)



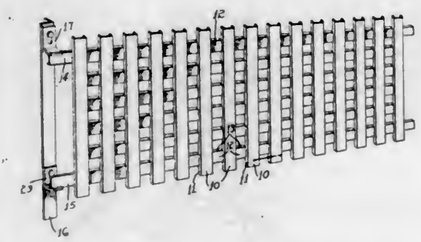
Cleaning apparatus for air filter units comprising a tank adapted to contain a liquid, a unit supporting receptacle therein having a unit receiving opening and walls including a strainer, adapted to form an enclosure for separating strained liquid in the receptacle from unstrained liquid in the tank, and a steam projector in the receptacle effectively positioned between the strainer and said opening and having steam outlets directed toward said opening.

1,783,195. RIBBON BURNER. GARNET W. MCKEE, Rockford, Ill. Filed July 11, 1927. Serial No. 204,984. 9 Claims. (Cl. 158—99.)



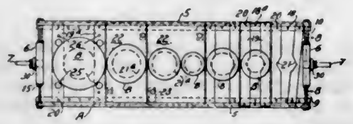
1. A gas burner having in combination an outer burner tube closed at one end and adapted to receive gas at the other end, said tube being formed longitudinally in one side with a slot substantially coextensive in length therewith, an inner burner tube disposed in said outer tube and substantially coextensive in length with said slot, said inner tube being formed in one side with a longitudinal slot in register with said first mentioned slot, the edges of said first mentioned slot being rigidly secured to said inner tube, a strip member forming jet passages in said last mentioned slot and extending a substantial distance into said inner tube, means for rigidly securing said member in position, and a plurality of spaced openings in said inner tube and at opposite sides of said member communicating with the interior of said outer tube.

1,783,196. LATTICE WORK AND MEANS FOR SUPPORTING THE SAME. WILLIAM G. PURDY and JOHN P. SPECK, Tiffin, Ohio. Filed Mar. 30, 1929. Serial No. 351,321. 2 Claims. (Cl. 189—82.)



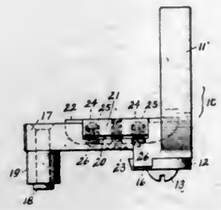
1. A metal lattice consisting of a single piece of sheet metal formed with a series of continuous parallel channels, and webs connecting the edge of one channel to the adjacent edge of the next channel, each web portion having rearwardly turned side flanges forming channel portions extending between the continuous channels, transversely thereof and in rear of the same.

1,783,197. TRAY FOR POTTERY-FABRICATING APPARATUS. WILLIAM J. MILLER, Swissvale, Pa. Filed Apr. 11, 1928. Serial No. 269,273. 20 Claims. (Cl. 25—22.)



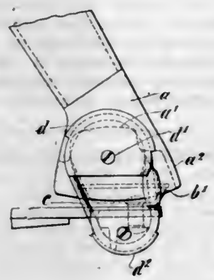
1. A tray of the class specified, comprising, in combination, a frame, fabricating units disposed on said frame, the frame being so constructed as to provide seats for said units, the latter being accessible through said seats.

1,783,198. SHOE-STITCHER ATTACHMENT. FRANK PARADISO, Philadelphia, Pa. Filed May 29, 1928. Serial No. 281,438. 1 Claim. (Cl. 112—51.)



In a machine for stitching soles to shoes, means for embedding the stitching in the sole including an attaching member, a knife mounted thereon, a shoe guide mounted on the attaching member and having recesses, springs in the recesses abutting the attaching member, and a screw for moving the guide against the action of the springs.

1,783,199. SHACKLE CONNECTION BETWEEN SPRING AND FRAME. ANDREW LAWRENCE RIKER, Jr., Fairfield, Conn., assignor to The Rubber Shock Insulator Corporation, Wilmington, Del., a Corporation of Delaware. Filed July 13, 1927. Serial No. 205,282. 16 Claims. (Cl. 267—30.)

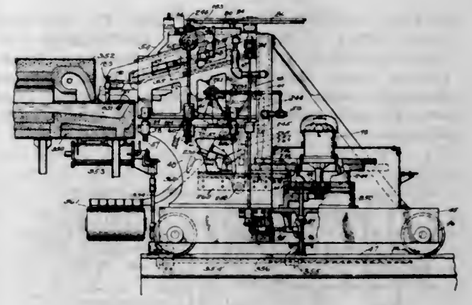


1. A connection of the character described comprising a block of yielding non-metallic material disposed between two members to be connected, means to position the block to carry the weight of one member upon another, non-yielding, flexible tensioning means, and means to wind the tensioning means between the elements to prevent them from separating and maintain the non-metallic means always under a predetermined minimum compression.

1,783,200. DRESSING SEED. HEINRICH RÖSSNER, ADOLF STEINDORFF, and KASPAR PFAFF, Hochst-on-the-Main, Germany, assignors to Farbwerke vorm. Meister Lucius and Bruning, Hochst-on-the-Main, Germany, a Corporation of Germany. Filed Oct. 8, 1925, Serial No. 61,352, and in Germany Oct. 15, 1924. 2 Claims. (Cl. 167—38.)

1. A composition of matter comprising about 32 to 48 parts of an indifferent extender, about 30 to 40 parts of a sulfonate of resin and about 2 to 3 parts of an oily material, the remainder of the composition being a metal-containing compound possessing a fungicidal action.

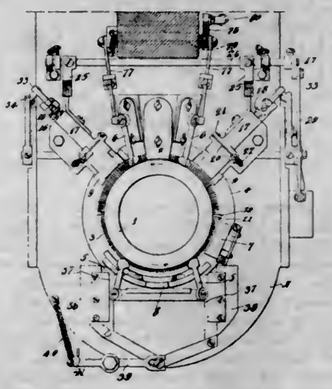
1,783,201. GLASSWARE-FORMING MACHINE. LEONARD D. SOUBIER, Toledo, Ohio, assignor to Owens-Illinois Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed June 30, 1927. Serial No. 202,633. 37 Claims. (Cl. 49—5.)



7. In a glassware forming machine, a stationary support, a blank mold mounted on said support and reciprocable thereon between horizontally spaced charge gathering and blank transfer stations, a finishing mold mounted for oscillatory movement vertically on said support between the transfer station and a ware ejecting station, means to transfer a blank from the blank mold to the finishing mold at said transfer station, means to expand the parison at the transfer station while in the finishing mold, and means to apply additional air pressure to the interior of the blank after expansion thereof.

27. In a glassware forming machine, means to form a parison, means to place the parison at a transfer station, a finishing mold to enclose the parison at said transfer station, means for moving the finishing mold between the transfer station and a discharge station, and means including a knock-out disk having an opening therein to apply air under pressure and freely circulating air to the finishing mold in alternation to blow the blank to its final form.

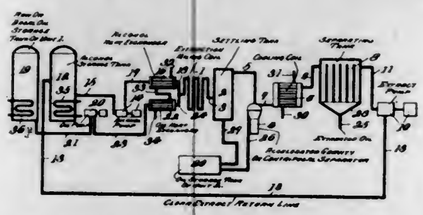
1,783,202. KNITTING MACHINE. JOHN L. SUTPHEN, Philadelphia, Pa., assignor to Scott & Williams, Inc., New York, N. Y., a Corporation of Massachusetts. Filed July 21, 1925. Serial No. 44,976. 12 Claims. (Cl. 66—43.)



1. In a knitting machine, a cylinder carrying knitting needles; a finger for feeding yarn to the needles; tripping mechanism for holding the finger out of operative position; mechanism for bringing the tripping mechanism to

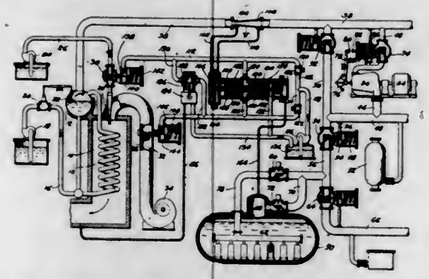
tripping position when the cylinder rotates in one direction, and means on the cylinder adapted, when the cylinder rotates in the opposite direction, to actuate the tripping mechanism to allow the finger to move into operative position.

1,783,203. PROCESS OF AND APPARATUS FOR THE FRACTIONAL EXTRACTION OF PETROLEUM HYDROCARBONS WITH ALCOHOL. THEODORE A. WERKENTHIN, Lima, Ohio, assignor to The Solar Refining Company, Lima, Ohio, a Corporation of Ohio. Filed Dec. 30, 1927. Serial No. 243,644. 6 Claims. (Cl. 196—13.)



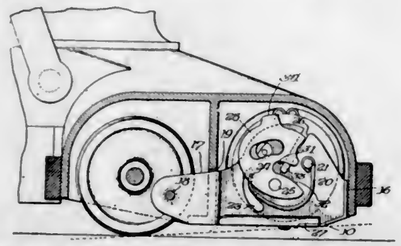
2. The process of treating heavy petroleum oils comprising successively extracting the same with alcohol at an elevated temperature not exceeding the boiling point of the alcohol whereby there is insured a high degree of insolubility of the oil in the alcohol, thereafter cooling each successive alcohol extraction product to a low temperature substantially as set forth, to decrease the solubility of the oil in the alcohol and permit the oil to settle out, the cooling being carried out so as to allow about 1 to 3% of alcohol to be retained in the oil to decrease its viscosity, permitting it to be easily pumped, and cold pressing the oil in the presence of the retained alcohol whereby the crystal formation of the wax is improved.

1,783,204. STEAM PLANT. FRITZ WETTSTEIN, Summit, N. J., assignor, by mesne assignments, to Ruths Steam Storage Incorporated, New York, N. Y., a Corporation of Delaware. Filed June 23, 1926. Serial No. 117,914. 22 Claims. (Cl. 60—94.)



3. In a steam plant, in combination, a steam generator, a steam motor, a steam accumulator, a high pressure conduit connected to said generator, a motor supply conduit extending between said high pressure conduit and said motor, over-flow mechanism controlling flow of steam through said motor supply conduit and operating to maintain a constant steam pressure in said high pressure conduit, means to supply fuel to said generator, flow responsive mechanism actuated by changes in rate of flow through said high pressure conduit automatically regulating the supply of fuel to the generator to maintain a constant rate of flow of steam from said generator and through said high pressure conduit, means to conduct steam from said high pressure conduit to said accumulator and from said motor to said accumulator and means to discharge said accumulator.

1,783,205. CLEANER. HARRY B. WHITE, Canton, Ohio, assignor to The Hoover Company, a Corporation of Ohio. Filed Dec. 24, 1927. Serial No. 242,310. 9 Claims. (Cl. 15—8.)



1. In a suction cleaner having a downwardly opening intake nozzle, a U-shaped mounting frame, said mounting frame having a long base portion and short side members, the side members of the frame being pivotally mounted adjacent the intake nozzle, a revoluble agitator in the intake nozzle and having supports projecting from its ends, said side members being provided with seats for said supports, and a latch member pivotally mounted on each side member to secure said supports on their seats and each having two cam surfaces, one of said cam surfaces having a progressively decreasing effective radius in one direction of rotation of the latch member, and the other of said cam surfaces having an effective radius progressively increasing at a relatively high rate with respect to the other cam surface and effective in the opposite direction of rotation of the latch member.

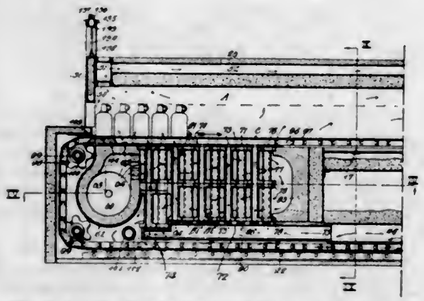
1,783,206. CONCENTRATION OF ORES. GEORGE H. WIGTON, Eureka, Utah. Filed June 21, 1928. Serial No. 287,349. 10 Claims. (Cl. 209—166.)

1. The process of concentrating oxidized ores by froth flotation which comprises subjecting the ore in the form of a pulp to a flotation operation in the presence of the reaction product of an alcoholic solution of alpha naphthylamine and phosphorous pentasulfid.

1,783,207. CONCENTRATION OF ORES. GEORGE H. WIGTON, Eureka, Utah. Filed July 3, 1929. Serial No. 375,892. 9 Claims. (Cl. 209—166.)

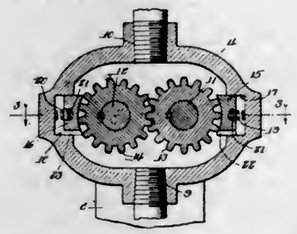
1. The process of concentrating ores by froth flotation which comprises subjecting the ore in the form of a pulp to a flotation operation in the presence of the reaction product of an oxygen free aromatic amino compound and phosphorus pentasulfid.

1,783,208. GLASSWARE-ANNEALING LEER. PERCY Q. WILLIAMS, Toledo, Ohio, assignor to Owens-Illinois Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Aug. 16, 1926. Serial No. 129,373. 30 Claims. (Cl. 49—47.)



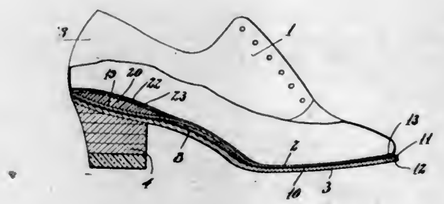
15. A leer including an annealing chamber, a recuperator having a set of vertical tubes open at both ends and communicating at their upper ends with said chamber, said chamber having outlets spaced along its ceiling, means for forcing air thru said tubes into the annealing chamber and exhausting the air thru said outlets, means to conduct the exhausted air to the lower ends of the recuperator tubes, means separating the recuperator into upper and lower sections, means for directing products of combustion rearwardly thru the upper section and forwardly thru the lower section of the recuperator over the exterior surfaces of the tubes, a longitudinal flue arranged below the recuperator to receive products of combustion from the lower section of the recuperator, and means for exhausting products of combustion from the opposite end of said flue to the atmosphere.

1,783,209. SPUR GEAR PUMP. IRVEN H. WILSEY, Chicago, Ill., assignor to James B. Tuthill, Chicago, Ill. Filed Dec. 29, 1926. Serial No. 157,673. 3 Claims. (Cl. 103—126.)



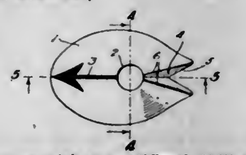
1. A gear pump having, in combination, a casing, an inlet passage in one side of said casing, a discharge passage in the other side of said casing, a pair of gear members mounted side by side in said casing and meshing with each other, a pair of opposed guideways formed in said casing, a pair of lands slidably mounted in said guideways for engaging the respective peripheries of said gear members, vent passages formed in the sides of said lands for venting the ends of said guideways back of said lands to said inlet passage, and spring means tending to press said lands into engagement with said gear members.

1,783,210. BOOT OR SHOE. PAUL C. WOLFER, Everett, Mass. Original application filed July 11, 1927, Serial No. 204,727. Divided and this application filed Dec. 30, 1927. Serial No. 243,691. 1 Claim. (Cl. 36—71.)



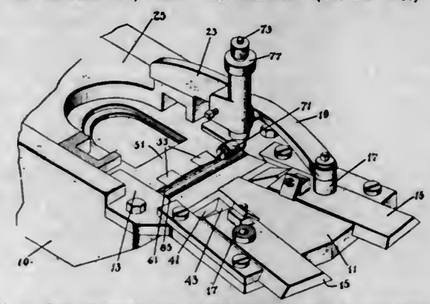
In a shoe having an insole, an upper lasted thereto, an outsole, a shank stiffener interposed between said insole and outsole and permanently incorporated in the shoe structure, a yielding heel seat cushion, a metatarsal arch support positioned substantially centrally in the fore part of the shoe, said heel cushion, when compressed, constituting a supporting plane for the wearer, cooperating with the supporting bearing of the metatarsal arch support and the shank stiffener extending from the heel cushion to said metatarsal arch supporting structure and constituting a permanent portion of the shoe.

1,783,211. GOLF TEE. WILLIAM E. BALDWIN, New York, N. Y. Filed Oct. 10, 1928. Serial No. 311,675. 1 Claim. (Cl. 273—33.)



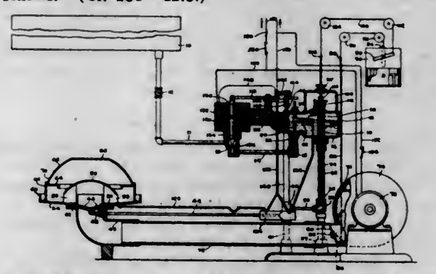
A golf tee comprising a stiff, shell-like body formed of a single sheet of readily severable sheet material, substantially elliptical in plan, having a convex upper surface and formed to support a ball at a high point of its convexity, said ball support being located at an intermediate point on the major axis of the body; an arrow on the upper surface of the body co-incident with the major axis thereof and extending from the ball support longitudinally to the opposite front and rear margins of the body, the tail of the arrow being formed by a tapered depression in the shell extending from the ball support to the margin of the shell and defining a substantially V-shaped cleft in the outline of the rear margin directed toward the ball support to cooperate with the portion of the arrow at the opposite side of said support for indicating the direction of a drive.

1,783,212. HEEL-SEAT-FITTING MACHINE. WILLIAM RODERICK BARCLAY and FRED RICKS, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 27, 1928, Serial No. 257,421, and in Great Britain Mar. 28, 1927. 29 Claims. (Cl. 12—17.)



1. A heel-seat fitting machine, having in combination means for positioning a sole with a narrowed heel-seat portion, and knives constructed and arranged to straddle said narrowed heel-seat portion for cutting on each side of the narrowed sole portion a tab tapered longitudinally of the sole upon a long bevel.

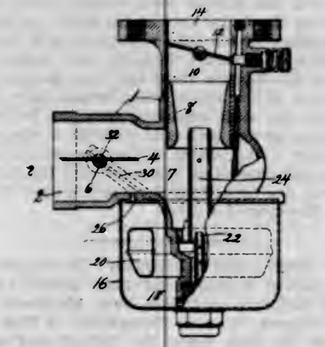
1,783,213. APPARATUS FOR SUPPLYING FUEL OIL TO FURNACES. ASHLEY C. BENNETT, Minneapolis, Minn. Filed Sept. 20, 1928. Serial No. 307,094. 6 Claims. (Cl. 158—42.3.)



1. Apparatus for supplying fuel oil to furnaces comprising a storage tank, a burner, a pipe system connect-

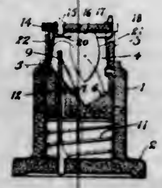
ing said tank and burner, a solenoid coil, an upper and a lower core for said coil, said lower core constituting a shut-off valve for said pipe system when said coil is deenergized, a switch for the circuit of said coil normally held in closed position by said upper core when said coil is energized, an overflow drain for said pipe system, and an overflow trip device between said drain and switch for opening the latter.

1,783,214. CARBURETOR. GEORGE M. BICKNELL, St. Louis, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a Corporation of Delaware. Filed May 5, 1927. Serial No. 189,035. 7 Claims. (Cl. 261—64.)



1. In a carburetor, a float chamber, an air chamber, a choke valve controlling the admission of air to said air chamber, an operator for said choke valve, a passage connecting said chambers, another passage from said float chamber to atmosphere and means actuated by said operator for controlling said passage to atmosphere, said means operating reversely to said choke valve.

1,783,215. PINHOLDER. GEORGE BODEN, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Apr. 9, 1929. Serial No. 353,858. 6 Claims. (Cl. 312—77.)

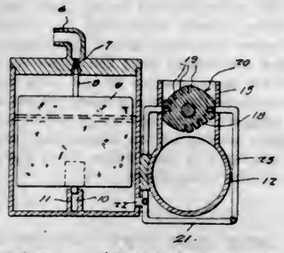


1. In a pin case from which the pins are delivered mechanically, the combination of a casing, a pin carrier slidable relatively to the casing and having an aperture, a pin dispenser in the casing extending into the aperture, and a curved rigid guide and stop through which the dispenser passes so located as to prevent pins passing into the aperture.

1,783,216. PROCESS OF PRODUCING VULCANIZED RUBBER. MAX BÖGEMANN, Elberfeld, and HERMANN FRIEDRICH, Weisdorf-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed June 3, 1924. Serial No. 717,640. 6 Claims. (Cl. 18—53.)

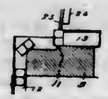
2. As vulcanization accelerators the mixtures of di- and polyamines obtainable by reacting with ammonia upon ethylenedichloride.

1,783,217. CARBURETOR. WILLIAM F. BROGE, Detroit, Mich., assignor of one-third to John Frame. Filed Dec. 21, 1928. Serial No. 327,719. 4 Claims. (Cl. 261—53.)



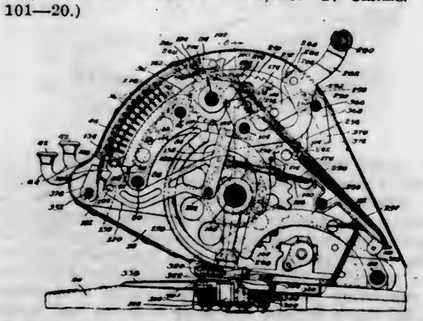
1. A carburetor comprising a float chamber, a mixing chamber having a throat formed at one side thereof for admitting air into said last named chamber, a cylindrical valve rotatably mounted in the throat having its sides arranged for cooperation with the walls of the throat whereby to control the passage of air into the mixing chamber, longitudinally extending grooves formed in the sides of the valve for the entire length thereof and a fuel feed pipe extending from the float chamber and communicating with the ends of the groove for feeding fuel thereto for uniform discharge along the sides of the valve.

1,783,218. MACHINE FOR ASSEMBLING NUTS. RICHARD L. BURDSALL, Port Chester, N. Y., assignor to Russell, Burdsall & Ward Bolt & Nut Company, Port Chester, N. Y., a Corporation of New York. Filed Jan. 3, 1930. Serial No. 418,395. 4 Claims. (Cl. 10—162.)



1. A mechanism for assembling nut blanks comprising a hopper having a chute down which the blanks gravitate, a block with a downward step on its upper face, located below said chute, a plunger movable across said block and adapted to push blanks successively from the lower end of the chute across the block and over said step, yielding means extending into the path of the pushed blanks, said means passing such blanks as are pushed with their crowned faces forward and tripping such blanks as are pushed with their back faces forward, and a chute for receiving the blanks thus manipulated.

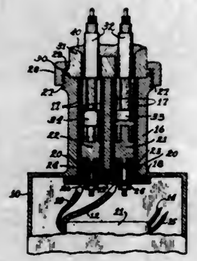
1,783,219. CHECK PROTECTOR. JOHN W. CARLSON, Chicago, Ill., assignor to The Hedman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed July 19, 1928. Serial No. 293,906. 17 Claims. (Cl. 101—20.)



1. In a machine of the class described, the combination of a key having an arcuate plate secured thereto, a

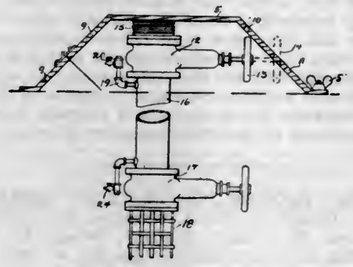
stop bar reciprocable transversely with respect to said plate, a pin and cam slot connection between said bar and said plate, and means to impart a lateral movement to said stop bar as an incident to its transverse movement.

1,783,220. MULTIPLE CONNECTING DEVICE. GEORGE L. CHAMBERLAIN, Chicago, Ill. Filed Aug. 14, 1929. Serial No. 385,956. 7 Claims. (Cl. 175—361.)



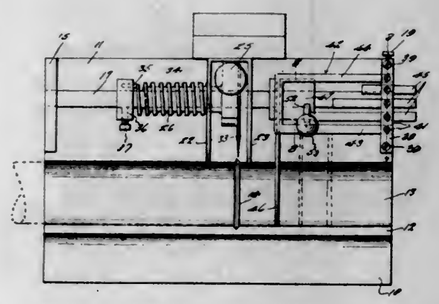
1. The combination of a transformer and a unitary primary and secondary circuit connecting device, said transformer having a single connection extension provided with separate primary contact receiving portions in circuit with the primary winding of the transformer, and a single secondary contact receiving portion in circuit with the secondary winding of the transformer, said unitary circuit connecting device having separate primary contact members and a single plug carrying the several secondary terminal contact members, and an emergency reconnecting device having provision similar to that of said transformer single connection extension for the attachment thereto of said unitary connecting element and having provision for electrically connecting the primary terminal contacts of said unitary device but not the secondary terminal contacts thereof.

1,783,221. EMERGENCY FEEDER DEVICE FOR SUBMARINES. JOHN M. CLARK, New York, N. Y. Filed Feb. 25, 1928, Serial No. 256,969. Renewed Aug. 23, 1930. 3 Claims. (Cl. 114—16.4.)



1. An emergency feeder device for submarines comprising an enlarged tubular member extending through the skin of a submarine, a plurality of valves, one at each end of said tubular member and means for equalizing the pressure at each side of each said valve prior to the opening thereof.

1,783,222. ADJUSTABLE SLICING MACHINE. CHARLES L. COLLINS and JAMES V. ANZULOVIC, Omaha, Nebr. Filed Jan. 3, 1930. Serial No. 418,339. 8 Claims. (Cl. 107—21.)



5. A slicing machine comprising a base having a longitudinal depression, a pair of spaced supports on the base, a spindle secured between the supports, a knife rotatable on the spindle, an abutment plate, means slidable on the spindle for supporting the abutment plate, a plurality of inwardly projecting adjustable gauge fingers secured to one of the supports adapted to engage the last mentioned means for selectively regulating the length of the slice, and a groove in the depression in alinement with the knife blade, said means including a sleeve having a reduced end and said abutment plate rotatable on the reduced end, and said depression being arcuate and coextensive with the base, and spring means disposed about the spindle to normally urge the knife blade out of the depression.

1,783,223. ORNAMENTAL DEVICE. ERNEST I. DAUER, Providence, R. I., assignor to Cohn & Rosenberger, Inc., New York, N. Y., a Corporation of New York. Filed July 19, 1929. Serial No. 379,422. 1 Claim. (Cl. 41—10.)

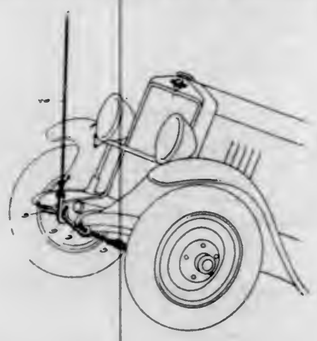


A device of the character described comprising a support having a central portion of rectangular cross-section, extensions of reduced cross-section at both ends, one of which is longer than the other and is bent to form an eye, a plurality of spiders each having two or more arms and having rectangular openings to slidably engage the rectangular central portion of the support, the axes of the openings in the successive spiders being disposed at angles of 45°, self-spacing ornaments secured to the arms of the spiders whereby the ornaments are staggered on the support, and ornaments secured to the reduced extensions of the support.

1,783,224. LIFTING DEVICE FOR MOTOR VEHICLES. ARTHUR P. DAVIDSON, Odessa, Tex. Filed Aug. 9, 1929. Serial No. 384,609. 1 Claim. (Cl. 294—82.)

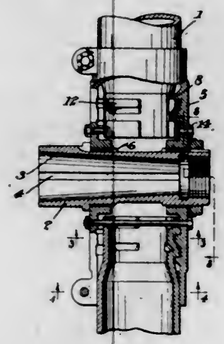
In a lifting device for motor vehicles, the combination of a bar arranged to engage the opposite end portions of

the forward springs of the vehicle and provided with hooks to pass under, around and over said ends, and an-



gular locking extensions on said hooks adapted to be moved in position adjacent the inner faces of said springs upon rotation of said bar.

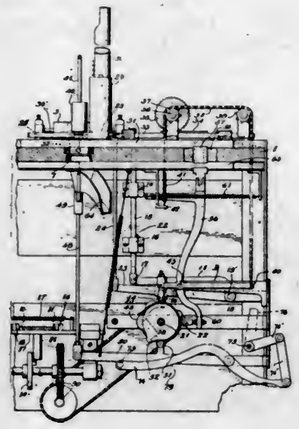
1,783,225. PROPELLER. THOMAS A. DICKS, Pittsburgh, Pa., assignor, by mesne assignments, to Pittsburgh Screw & Bolt Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 31, 1927. Serial No. 244,021, 11 Claims. (Cl. 170—173.)



1. In a device of the character disclosed, the combination of a propeller hub having a blade shank encircling socket and a propeller blade, said socket and the circular shank of said blade being provided with cooperating segmental shoulders adapted to interlock with each other and to permit relative rotation therebetween and to permit quick removal of the blade shank from said socket, sand shank and socket being provided with registering openings for receiving a common securing means, the openings in said shank being circumferentially elongated so that said shank can be rotated in respect to said socket for permitting pitch adjustment of the propeller blade while said securing means is positioned but not rigidly secured.

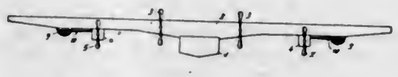
1,783,226. WRAPPING MACHINE. HAROLD W. A. DIXON, Hollis, N. Y., assignor to Columbia Ribbon & Carbon Manufacturing Company, Inc., Glen Cove, Long Island, a Corporation of New York. Filed Feb. 3, 1928. Serial No. 251,511. 6 Claims. (Cl. 93—2.)

1. In a machine provided with a wrapping station at which articles are wrapped, means for moving an article to be wrapped together with a wrapper therefor into said wrapping station, the restricted opening provided by the wrapping station effecting on this movement a partial wrapping of the article, resilient means adjacent the wrapping station for retaining the wrapper and partially wrapped article therein, a member for completing the



wrapping operation, and means for feeding a second article and wrapper into said station to partially wrap the second article and to simultaneously discharge the wrapped article.

1,783,227. STARTING OF LARGE FLYING MACHINES. CLAUDIUS DORNIER, Friedrichshafen-on-the-Bodensee, Germany, assignor to the Firm: Dornier-Metalbauten G. m. b. H., Friedrichshafen-on-the-Bodensee, Germany. Filed Sept. 28, 1928, Serial No. 309,002, and in Germany Oct. 5, 1927. 1 Claim. (Cl. 244—2.)

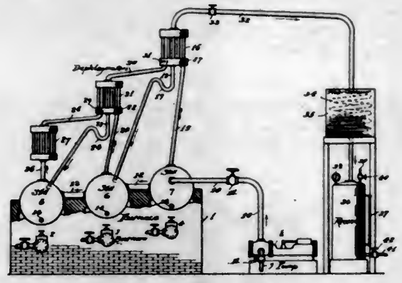


The combination with an aeroplane comprising a longitudinally extending main body portion, a transversely disposed wing member and a motor-propeller unit, of an auxiliary independent motor-propeller unit detachably secured to said wing at a point removed from said main body portion, and a parachute secured to said auxiliary motor-propeller unit and detachably secured to said wing in a collapsed position, and means controlled by the pilot of the aeroplane for detaching said auxiliary motor-propeller unit and its associated parachute from said wing.

1,783,228. PROCESS FOR CRACKING PETROLEUM OIL. CARBON P. DUBBS, Wilmette, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Oct. 8, 1920, Serial No. 415,601. Renewed Nov. 19, 1929. 3 Claims. (Cl. 196—499.)

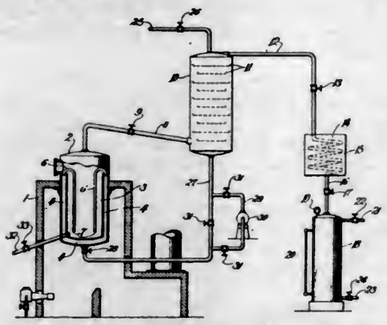
1. A process of cracking oil, consisting in passing the oil through a series of stills of successively increasing temperature, taking off vapors from each still, passing them to a reflux condenser individual to each still, returning the reflux condensate separated from vapors removed from a still of lower temperature directly to a still of higher temperature, passing the vapors which are not

condensed in the reflux condenser connected to a still of higher temperature directly through the reflux condenser



connected to a still of lower temperature and finally taking off the vapors from the reflux condenser connected to the still of lower temperature.

1,783,229. PROCESS AND APPARATUS FOR TREATING OILS. CARBON P. DUBBS, Wilmette, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Feb. 11, 1922, Serial No. 535,783. Renewed Sept. 14, 1928. 7 Claims. (Cl. 196—48.)

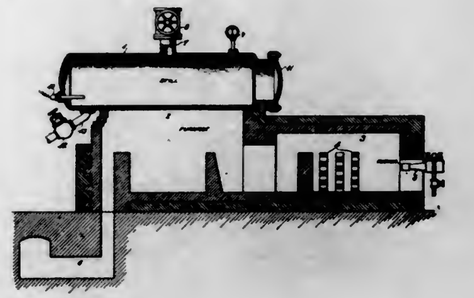


1. In an apparatus for cracking oil, the combination with a furnace, of a still mounted therein, and provided with a circumferentially extending chamber, connections between said chamber and the main body of the still and means for feeding oil to be treated to the chamber and means for drawing off residue from the main body of the still.

4. A process for converting higher boiling point hydrocarbon oils into lower boiling point hydrocarbon oils consisting in passing oil through a narrow annular passage adjacent the walls of the still where the oil is subjected to a cracking temperature, in then discharging the heated oil from said narrow passage into a main interior chamber of said still where it is maintained out of contact with the oil being heated in said narrow passage, in subjecting the vapors from said main chamber to reflux condensation, in returning the reflux condensate to said narrow passage, in withdrawing residuum from said interior chamber, and in maintaining a superatmospheric pressure on said still.

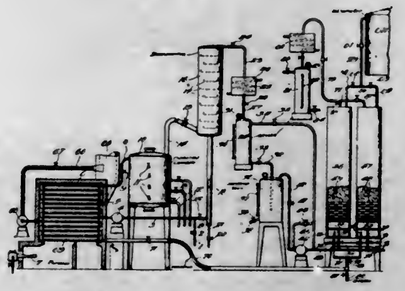
1,783,230. PROCESS OF CRACKING ROSIN. GUSTAV EGLOFF and HARRY P. BENNER, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Dec. 20, 1920, Serial No. 432,070. Renewed Mar. 15, 1928. 3 Claims. (Cl. 202—5.)

1. A process of cracking rosin in the presence of water, which consists in introducing said mixture to a still, in subjecting the mixture to heat and pressure sufficient to raise its temperature above 900° F. and to generate a



vapor pressure exceeding 5000 pounds per square inch to convert a substantial portion of the mixture into a light oily product.

1,783,231. PROCESS FOR CONVERTING PETROLEUM OIL. GUSTAV EGLOFF and JACQUE C. MORRELL, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Dec. 1, 1922, Serial No. 604,163. Renewed Feb. 5, 1929. 4 Claims. (Cl. 196—58.)

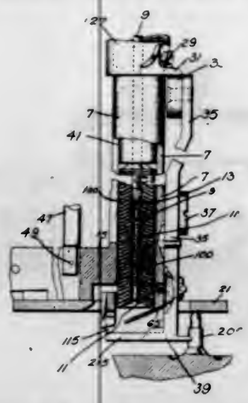


1. A process for cracking oil consisting in heating the oil to a conversion temperature in a heating zone, passing the oil to a conversion stage and there maintaining it in a substantial body, dephlegmating and condensing the evolved vapors and passing the uncondensed gases through an adsorbent substance, thereby adsorbing any vapors entrained by the uncondensed gases, driving off the adsorbed products by treating the adsorbent substance with heated gases of combustion from the heating zone so regulated as to relieve said substance of said products and condensing and collecting the products thus driven off.

1,783,232. WASHER-LOADING DEVICE. SIDNEY J. FINN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 10, 1927. Serial No. 160,280. 36 Claims. (Cl. 18—1.)

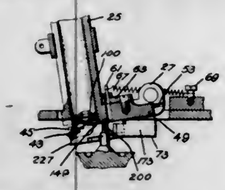
1. A device for placing washers upon the pins of a mold by relative traverse between the device and the mold,

having in combination, a magazine for a stack of washers, and means movable axially of the stack and operated by



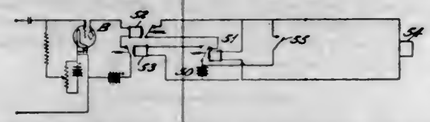
a mold pin during said traverse for displacing the lowermost washer from the stack and moving it into position to be threaded upon the mold pin.

1,783,233. WASHER-LOADING DEVICE. SIDNEY J. FINN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 12, 1927. Serial No. 160,660. 6 Claims. (Cl. 18—1.)



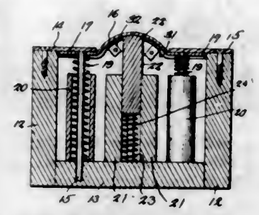
1. A device for placing washers upon the pins of a mold by relative traverse between the mold and the device, having in combination, a magazine for a stack of washers, a plurality of means for engaging the under side of the lowermost washer to support the stack, one of said means being capable of yielding relatively to another of said means to enable the lowermost washer to be tilted, and means responsive to said relative traverse for moving said lowermost washer out of stacked relation and into a tilted position while still engaged by said yielding means.

1,783,234. ELECTRICAL APPARATUS. FLOYD FIRESTONE, Ann Arbor, Mich., assignor to The Regents of the University of Michigan, Ann Arbor, Mich., a Corporation of Michigan. Filed June 6, 1927. Serial No. 196,828. 10 Claims. (Cl. 250—27.)



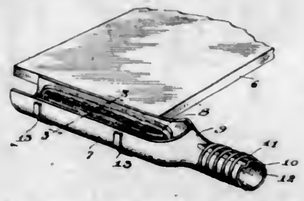
1. The combination of a gas content electron tube having a filament, a control grid and a plate, a substantially steady source of electrical energy of such strength and so connected to said plate as to normally maintain a substantially steady plate potential large enough to produce ionization of the gas in the tube above a certain grid potential, a source of grid potential large enough to normally overcome the tendency of the gas in the tube to ionize, means for applying electromotive force to the grid, and a device in the plate circuit irresponsive to the normal current therein but responsive to the current therein during such ionization.

1,783,235. REFRIGERATOR-DOOR FRAME. GEORGE W. FRICK, Baltimore, Md. Filed Mar. 29, 1930. Serial No. 439,969. 8 Claims. (Cl. 189—46.)



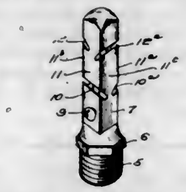
1. A door frame having side, top and bottom members, each of said members being of channel form provided with a bottom and side walls, strips secured to the side walls and projecting inwardly therefrom and having their inner edges spaced to provide a slot, a sealing strip having a transversely arcuate central portion projecting through the slot and lateral flanges underlying the inwardly projecting portions of the first strips, and spring means yieldably holding the arcuate portion of the sealing strip in projected position.

1,783,236. HANK-BUNDLING DEVICE. WILLIAM H. GOSCH, Reading, and ADDISON KOHOUT, Shillington, Pa., assignors to The Nolde and Horst Company, Reading, Pa., a Corporation of Pennsylvania. Filed Apr. 10, 1930. Serial No. 443,235. 7 Claims. (Cl. 28—21.)



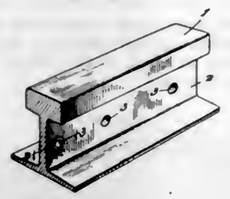
1. A device for building hanks of silk or the like, comprising a trough in which the hanks are piled, and a discharge tube at one end of said trough adapted to hold a fastening device.

1,783,237. SPRINKLER. LESLIE W. GREER, Phoenix, Ariz. Filed Feb. 18, 1930. Serial No. 429,387. 4 Claims. (Cl. 299—141.)



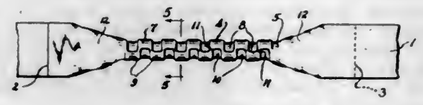
2. A device of the character described, comprising a vertically elongated tubular head that is substantially square in horizontal cross section to present four flat outer faces, there being oblique slots formed in each of the walls of said head extending from the bore thereof to the outer faces thereof.

1,783,238. MEANS TO FACILITATE THE ELECTRICAL BONDING OF RAILWAY RAILS. GEORGE F. GRUNDON, Middletown, and FRED E. KNIGHT, High Spire, Pa. Filed Feb. 8, 1930. Serial No. 426,922. 6 Claims. (Cl. 238—151.)



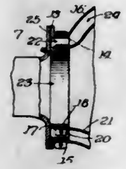
1. A new article of manufacture, a railway rail having two sets of openings formed in the web thereof prior to shipment from the mill, one set of openings adapted to receive the bolts of the usual joint and the other set adapted to receive the electrical bond, and means sealing the bond-receiving opening.

1,783,239. TIE FOR METAL STRAPS. LEO M. HARVEY, Los Angeles, Calif. Filed Oct. 2, 1929. Serial No. 396,848. 5 Claims. (Cl. 24—23.)



1. A tie for connecting the overlapping ends of a metal strap comprising two rolls of metal formed on a common axis and extending longitudinally of the strap but intermediate the ends thereof, the end portions of the strap being flat and engaging the flat body of the strap, and the portions intermediate the ends of the strap and the extremities of the tie being gradually flared outwardly as described.

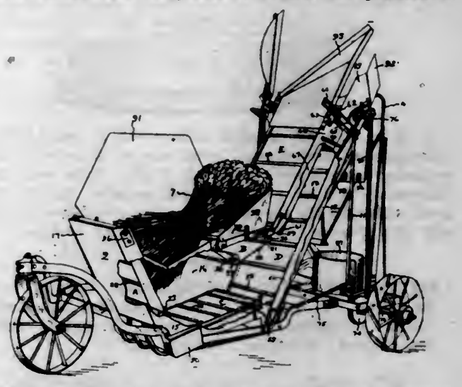
1,783,240. DUST-BAG RING. HOWARD EARL HOOVER, Glencoe, Ill., assignor to The Hoover Company, a Corporation of Ohio. Filed Jan. 28, 1929. Serial No. 335,437. 4 Claims. (Cl. 183—51.)



1. A bag ring for attachment to a suction cleaner having a plurality of bag receiving flanges spaced by a perforated web.

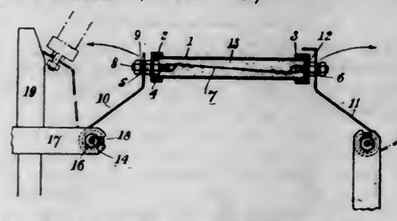
1,783,241. GRAIN-SHOCKING MECHANISM. GEORGE INNES, Davenport, Iowa, assignor to Innes Manufacturing Company, Bettendorf, Iowa, a Corporation of Delaware. Filed June 17, 1926. Serial No. 116,548. 17 Claims. (Cl. 56—417.)

1. In binding and shocking apparatus, in combination, a trough arranged to receive grain bundles from a binder, an open-top grain-receiving receptacle, means for transferring said bundles from said trough to said receptacle, means within said receptacle to reverse the position of



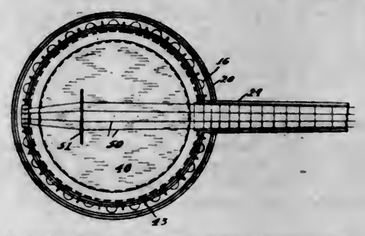
grain bundles in a vertical plane, and conveying means arranged to carry the reversed bundles upwardly to the top of a shocker basket.

1,783,242. ELECTRIC FUSE. WILLIAM JAMES JOHN, Croydon, and HERBERT WRIGHT, Jr., London, England; said Wright, jr., assignor to said John. Filed Jan. 5, 1929, Serial No. 330,484, and in Great Britain Jan. 6, 1928. 5 Claims. (Cl. 200—117.)



1. An electric fuse for high tension circuits including a cartridge enclosure, fuse terminals carried by the enclosure, a fuse wire connecting the terminals within the enclosure, and means for bodily moving the cartridge and one of said terminals in opposite directions in the event of rupture of the wire.

1,783,243. FRAME FOR MUSICAL INSTRUMENTS. WILLIAM L. LANGE, New York, N. Y. Filed May 8, 1928. Serial No. 276,002. 13 Claims. (Cl. 84—269.)



1. In a musical instrument a frame, having thereon at the lower end thereof a bevel, a ring, having thereon a conical flange, disposed with said flange in engagement with said bevel, an annular band, concentrically disposed with relation to said frame and spaced therefrom, mounted on said ring, means for spacing said band from said frame, a diaphragm, distended over said spacing means and band, and a means for securing said diaphragm to said ring, thereby also securing said band with said spacing means thereto.

1,783,244. RESONATING MEANS FOR BANJOS. WILLIAM L. LANGE, New York, N. Y. Filed July 11, 1929. Serial No. 377,375. 16 Claims. (Cl. 84—270.)



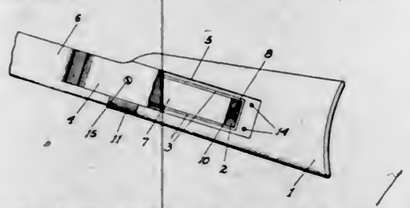
1. In a stringed musical instrument a frame, parts encompassing said frame, being spaced therefrom, and enclosing therebetween and said frame three resonator chambers, forming and including annular spaces, disposed substantially one above the other around said frame and each provided with one or more sound outlets.

1,783,245. METALLIC CLOTHESLINE. OTIS E. LAW, Brookfield, Ill., assignor to Pliless Clothes Line Corporation, Brookfield, Ill. Filed Aug. 21, 1930. Serial No. 476,788. 5 Claims. (Cl. 68—3.)



1. A device of the class described comprising a section formed of resilient metal bent to provide two side portions and a connecting end portion, said end portion formed into a cylindrical coil to provide a socket, said side portions twisted to provide an overlapping article engaging portion, and said side portions bent for extension within the cylindrical coil of an adjoining section.

1,783,246. SHOCK-ABSORBING STRUCTURE FOR FIREARMS. GROVER R. LEDFORD, San Joaquin, Calif. Filed May 16, 1929. Serial No. 363,549. 2 Claims. (Cl. 42—74.)



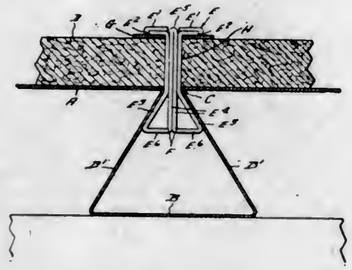
2. In a rifle or like firearm, separate stock and butt portions, a tongue projecting from the rear end of the stock and sliding in a socket cut in the butt, the bottom edges of the butt and stock being substantially in longitudinal alinement and the adjacent edge of the tongue being parallel to but above said edges, a compression spring between the rear end of the tongue and the butt, and a plate secured to the bottom of the stock at the front and bridging the gap between the stock and butt and slidably engaging the stock.

1,783,247. STRAPPING JOINT. JOHN W. LESLIE, Evanston, Ill., assignor, by mesne assignments, to Signode Steel Strapping Company, a Corporation of Delaware. Filed Oct. 22, 1928. Serial No. 314,216. 15 Claims. (Cl. 24—23.)



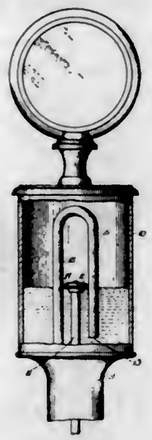
1. A joint for connecting overlapping portions of metal strap, comprising a metal sleeve embracing said overlapped portions, and a pair of indentations extending in opposite directions through the sleeve and overlapped portions of strap, said indentations having oppositely disposed relatively abrupt shoulders therebetween.

1,783,248. BUILDING-CONSTRUCTION UNIT. JAMES F. LOUCKS, Cleveland, Ohio, assignor to Detroit Steel Products Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 12, 1928. Serial No. 318,608. 9 Claims. (Cl. 72—70.)



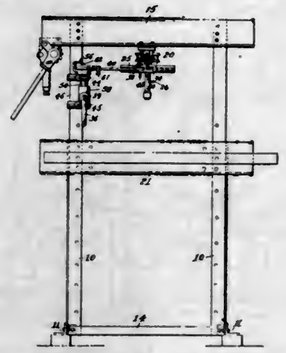
5. As a means for fastening a covering to a foundation having a triangular rib projecting from one side thereof, a fastening device comprising a head adapted to bear upon the covering and a shank adapted to extend through said covering and across said foundation and into the rib projecting therefrom, the shank having a pair of side members and said device also comprising means whereby, on driving the said device, the bottoms of the side members will be spread apart thereby to bring the lower portions of the said members into engagement with the inner surfaces of the sides of said rib.

1,783,249. LIQUID-OVERFLOW-CONTROL MEANS. WILLIAM C. MACMILLEN, Rochester, Pa., assignor, by mesne assignments, to The Wayne Pump Company, Baltimore, Md., a Corporation of Maryland. Filed June 14, 1926. Serial No. 115,727. 16 Claims. (Cl. 137—21.)



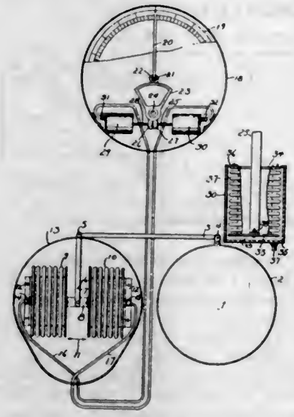
1. In combination with an overflow pipe, means mounted thereon having spaced cooperating upper and lower surfaces forming a liquid passageway and being inclined downwardly toward the middle of the overflow pipe for creating a siphon effect upon the liquid until such liquid has overflowed to a level slightly below the upper edge of such lower surface, whereupon the siphon effect is overcome and the level of the liquid remains constant.

1,783,250. LEVER MECHANISM. ROBERT E. MANLEY, York, Pa., assignor to Manley Manufacturing Company, York, Pa., a Corporation of Delaware. Filed Oct. 15, 1926. Serial No. 141,850. 10 Claims. (Cl. 153—53.)



1. In a press, a screw, a member for advancing the screw, a vertical shaft, a pair of arms on said vertical shaft forming with it a bell crank lever, quick detachable means for connecting the screw advancing means and one arm of the bell crank lever so that oscillation of the vertical shaft advances the screw, and means permitting the ready securing and releasing of the connection between said screw advancing means and lever arm.

1,783,251. RUDDER-ANGLE-INDICATING DEVICE. GEORGE M. MARR and ARTHUR PHELPS MARR, New York, N. Y. Filed Oct. 23, 1929. Serial No. 401,759. 6 Claims. (Cl. 116—126.)



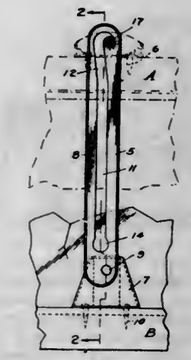
1. A rudder angle indicator comprising a plurality of accordion bellows members, and means for connecting them to a rudder post, and a plurality of accordion bellows members and an indicating means connected thereto, and means for transferring fluid pressure from the first bellows members to the second bellows members.

1,783,252. DENTAL INSTRUMENT. THOMAS K. MCKENZIE, Harrisonville, Mo. Filed June 19, 1929. Serial No. 372,146. 3 Claims. (Cl. 32—10.)



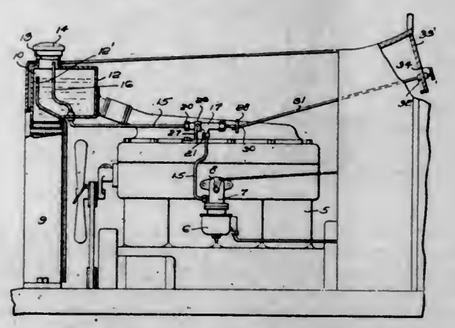
1. A dental instrument including a body portion having a beveled end formed with a groove, a bar secured to the body portion and having a right angled extremity overlying the groove, a slidable plugger point positioned in the groove and held in the groove by the right angled end of the bar, means for restricting movement of the plugger point, and means for exerting pressure on the plugger point.

1,783,253. FASTENING MECHANISM. LEON MCNAMARA, Rochelle, Ill. Filed Mar. 12, 1928. Serial No. 261,012. 1 Claim. (Cl. 292—268.)



In a fastening mechanism comprising in combination, a base member attached to a slidable section, an arm pivotally carried by the base member, the pivot point of the arm being offset from the longitudinal center line of the arm, said arm being provided with a longitudinal slot having one end offset and terminating in a pocket in longitudinal alinement with the pivot point of the arm, and the other end terminating in an enlarged opening, a second member attached to an adjacent slidable section, and a stud carried thereby engageable by the arm in one of its positions and seatable in the pocket in another of its positions.

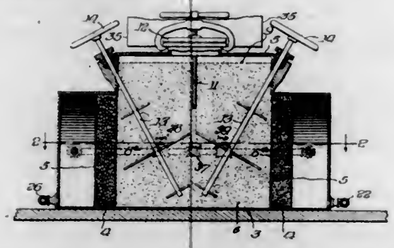
1,783,254. AIR MOISTENER FOR INTERNAL-COMBUSTION ENGINES. ERNEST MILLER, Saginaw West Side, Mich. Filed Feb. 11, 1929. Serial No. 339,101. 4 Claims. (Cl. 123—25.)



1. Means for supplying moisture to the cylinder or cylinders of an automobile engine, comprising a radiator including a shell provided near its top with an auxiliary tank for holding additional water, an overflow pipe for the radiator shell, a moisture supply pipe leading into the auxiliary tank and having its intake end terminating at a substantial elevation above the intake of the overflow pipe, a carburetor having an outlet pipe leading to the cylinder or cylinders of the engine, means whereby the moisture supply pipe leads into the outlet pipe between the

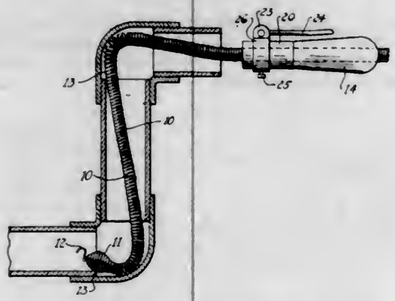
spray nozzle of the carburetor and the throttle valve, a valve structure including a casing and valve element, said casing being connected in the moisture supply pipe, and a rod to turn the valve element and extending to the dash of the automobile.

1,783,255. WATER SOFTENER. FRANK W. MILLER, Chicago, Ill., assignor of one-half to Ira J. Wilson, Winnetka, Ill. Filed Oct. 4, 1928. Serial No. 310,281. 3 Claims. (Cl. 210—24.)



1. A water softening apparatus comprising a casing, a pair of longitudinally spaced compartments containing filtering material within the casing, a body of a base-exchange material disposed between said compartments, means for passing water to be softened horizontally through said compartments and body, a space being provided at the top of said body beneath the top of the casing, a partition extending from the top of the casing downwardly through said space a substantial distance into said body disposed transversely across said body, and means for passing a fluid through the body for reconditioning the same.

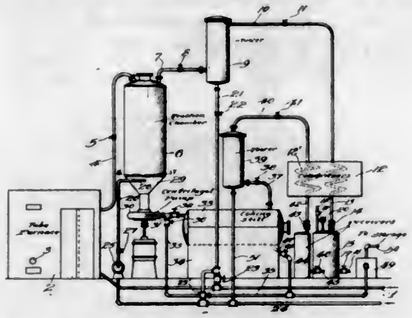
1,783,256. APPARATUS FOR CLEANING OUT DRAIN PIPES. JOHN C. MILLER, Chicago, Ill. Filed Dec. 13, 1928. Serial No. 325,696. 6 Claims. (Cl. 137—70.)



1. A passageway cleaner comprising a long coil of wire, the coil being of relatively small diameter and having an integral enlarged coiled head on one end, said head being oval-shaped with the adjacent coil turns normally substantially in contact, and having an integral screw-shaped hook on the outer end of said head.

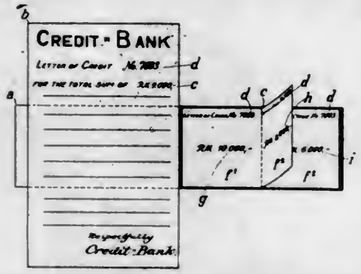
1,783,257. PROCESS AND APPARATUS FOR CONVERTING HYDROCARBONS. JACQUE C. MORRELL and HARRY P. BENNER, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed July 17, 1924. Serial No. 726,440. 9 Claims. (Cl. 196—49.)

9. An oil cracking process which comprises passing a stream of the oil through a heating zone and heating the same therein to cracking temperature under superatmospheric pressure, discharging the heated oil into a reaction zone maintained under superatmospheric pressure and in which a separation of vapors and unvaporized oil takes place, separately removing the vapors and unvaporized oil from said reaction zone, reducing the pressure



on said unvaporized oil to effect distillation of a portion thereof, subjecting the vapors resulting from said distillation to reflux condensation and injecting the reflux condensate thus obtained without passage through said heating zone back into the unvaporized oil in said reaction zone to prevent the settling out of carbon from the oil in said reaction zone.

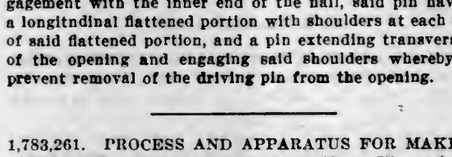
1,783,258. LETTER-OF-CREDIT FORM. GEORG OPITZ, Berlin, Germany. Filed Nov. 14, 1929, Serial No. 407,168, and in Germany Sept. 7, 1928. 3 Claims. (Cl. 283—59.)



1. A letter-of-credit book of safety-coupons comprising a folder, a plurality of safety-coupons arranged therein, and formed of safety-paper, each coupon being perforated thereacross, thus dividing each coupon into two portions, and each coupon having a value denomination thereon in diminishing sequence from coupon to coupon, the difference in value from one coupon to another designating the maximum and minimum limits of the remaining value of the book, the said value denomination occurring twice on each coupon, once on each side of the perforations, whereby upon detachment of one portion of the particular coupon representing the next higher printed value than the remaining maximum value of the letter-of-credit book there will be left remaining a corresponding stub, and the original total and remaining partial value of the letter-of-credit book can be determined.

1,783,259. PROCESS FOR CRACKING PETROLEUM OIL. ROBERT T. POLLOCK, New York, N. Y., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Original application filed Mar. 9, 1927, Serial No. 173,921. Divided and this application filed Nov. 14, 1929. Serial No. 407,203. 4 Claims. (Cl. 196—49.)

1. The process of converting heavy hydrocarbon oils into oils of lower boiling point which comprises subjecting oil to a cracking temperature and pressure in a pressure zone, separating the high boiling fractions of the evolved vapors from the low boiling fractions in the form of a condensate, then subjecting the condensate



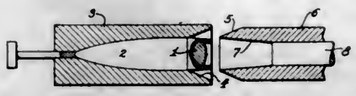
while still hot to increased cracking temperature and pressure, simultaneously distilling another independent body of oil, separating the evolved vapors according to their boiling points, and comingling the condensate thus formed with the oil in one of the pressure zones.

1,783,260. GAUGE. ROBERT W. REED, Fairport, N. Y., assignor of one-half to Harry W. Mountain, Aberdeen, S. Dak. Filed Feb. 27, 1928. Serial No. 257,346. 1 Claim. (Cl. 33—187.)



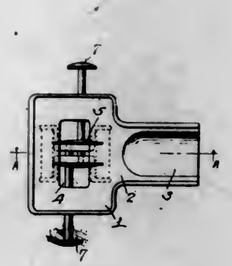
In a combination lap-siding support and gauge, a supporting arm having a hook formed at one end, said hooked end having an adjustable gauge extending therefrom, said arm having an opening extending through its opposite end, a nail retained within said opening having its pointed end protruding from the arm, an enlongated driving pin slidably arranged in the opening in driving engagement with the inner end of the nail, said pin having a longitndinal flattened portion with shoulders at each end of said flattened portion, and a pin extending transversely of the opening and engaging said shoulders whereby to prevent removal of the driving pin from the opening.

1,783,261. PROCESS AND APPARATUS FOR MAKING BULLETS. STANISLAS ROUSSEAU, Alton, Ill., assignor to Western Cartridge Company, East Alton, Ill., a Corporation of Delaware. Filed Sept. 3, 1926. Serial No. 133,376. 6 Claims. (Cl. 29—1.23.)



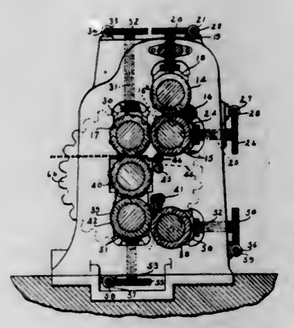
1. In the art of making jacketed boat tail bullets, the process of shaping the bullet comprising, frustoconically die-forming the tail of the jacket in successive stages while the core metal is unconfined, condensing the bullet endwise, and thereafter condensing the core metal therein.

1,783,262. APPARATUS FOR FACILITATING THE MANIPULATION OF MANICURING. ERNEST C. SACHSE, Edgewater, N. J. Filed June 18, 1930. Serial No. 462,051. 3 Claims. (Cl. 132—73.)



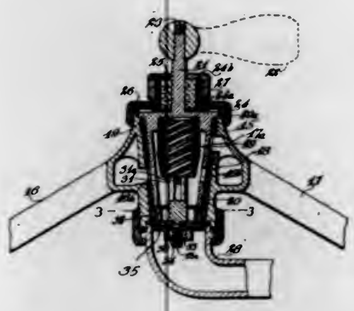
3. A device of the class and for the purpose specified comprising a supporting frame, a finger rest-plate, a pair of clamping jaws, said means including springs for normally closing said jaws, push pins in operative connection with the clamping jaws, an opening in the rest-plate for guiding the movement of the jaws, and a groove in the rest-plate conforming to the contour of the finger-end.

1,783,263. CALENDER. CARL F. SCHNUCK, New Haven, Conn., assignor, by mesne assignments, to Farrel-Birmingham Company, Incorporated, Ansonia, Conn., a Corporation of Connecticut. Filed Sept. 7, 1926. Serial No. 134,005. 2 Claims. (Cl. 91—48.)



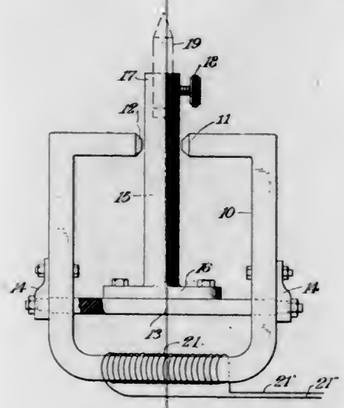
1. A calender provided with a plurality of rolls adapted to receive therebetween a plurality of banks of stock to reduce the same to sheet form and to combine the sheets with a sheet of fabric, three of said rolls having their axes in alignment, additional rolls cooperating with the end rolls of said aligned rolls, said additional rolls being arranged on the same side of the machine and having their axes in parallel alignment with the axes of the three rolls, and another roll cooperating with one of said additional rolls, said roll having its axis in alignment with the axes of the additional rolls, and means for feeding a sheet of fabric between two of said first named three rolls, said feeding means being arranged on the same side of the machine as said additional rolls.

1,783,264. MIXING VALVE. LOUIS SIROTEK, Chicago, Ill. Filed Sept. 8, 1928. Serial No. 304,761. 6 Claims. (Cl. 277—31.)



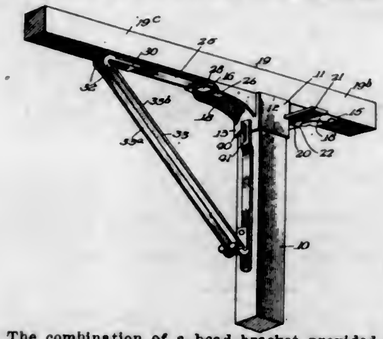
1. A faucet comprising a housing, conduits leading a fluid thereinto, a rotary valve in the housing to control the fluid and having an internal passage, a discharge spout leading from the latter, and a stopper between said passage and the spout effective upon said passage when the rotary valve is moved in one direction to closed position to shut off entry to the housing of said fluid from said conduits.

1,783,265. ELECTRICAL PICK-UP. WINFIELD D. SMITH, Deal, N. J., assignor to Louis G. Sylvester, Scranton, Pa. Original application filed Dec. 23, 1925, Serial No. 77,329. Divided and this application filed Mar. 1, 1928. Serial No. 258,212. 5 Claims. (Cl. 179—100.41.)



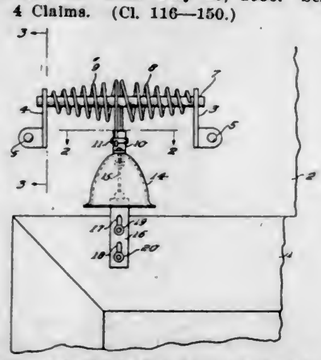
1. An electrical pickup comprising a magnet, means for converting fluctuations in the magnetic flux of the magnet into electric current variations, a magnetic member disposed between the poles of opposite polarity of the magnet, yieldingly mounted means for yieldingly supporting said magnetic member to permit the same to move freely between the poles of the magnet without substantial flexure, said supporting means being such as to permit movement of the magnetic member without setting up any appreciable restoring forces and without causing any substantial self-vibrations of the magnetic member, and means for vibrating the magnetic member in correspondence with the vibrations of sound waves.

1,783,266. SHORE. ARTHUR H. SYMONS, Chicago, Ill., assignor to Symons Clamp & Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 27, 1927. Serial No. 215,811. 8 Claims. (Cl. 248—30.)



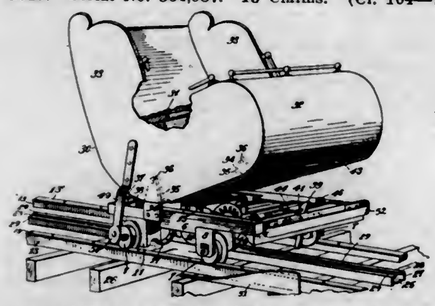
1. The combination of a head bracket provided with a socket to receive the upper end of a shore, an extension bar removably secured to the bracket, a suspension bar connected to the bracket, and a brace having its lower end held by the suspension bar and its outer end engaging the extension bar.

1,783,267. DOOR-OPERATED SIGNAL. CHARLES TILLBERG, Chicago, Ill. Filed July 29, 1930. Serial No. 471,171. 4 Claims. (Cl. 116—150.)



1. In a door-operated signal, a bell resiliently supported above the door, a slotted striker carried by the door and projecting thereabove for contact, in one position, with said bell, and fasteners disposed in the slotted portions of said striker whereby the same is adjustably secured to the door.

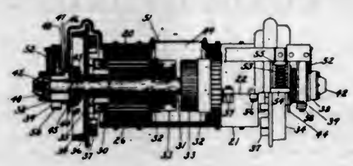
1,783,268. AMUSEMENT RIDE AND CAR THEREFOR. HARRY G. TRAVER, Beaver Falls, Pa. Filed May 22, 1929. Serial No. 364,987. 13 Claims. (Cl. 104—76.)



1. A passenger carrying car for amusement rides comprising a frame member arranged with traction wheels,

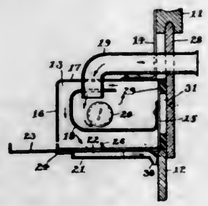
motive means carried by the frame and operatively connected to the wheels to propel the same, and a car body pivotally mounted on the frame on an axis transversely of the body and adapted to assume a position by gravity extending in a plane inclining to the frame.

1,783,269. DIRECT-DRIVE ELECTRIC RAILWAY TRUCK. VINCENT G. APPLE, Dayton, Ohio. Filed June 14, 1928. Serial No. 285,353. 17 Claims. (Cl. 105—54.)



1. An electric motor-axle unit comprising an axle having journals at its outer ends, two wheels having ventilating fan blades extending therefrom mounted on the axle next to the journals, one or more rotors mounted on the axle between the wheels, and a housing carrying the stators extending over and beyond the wheels for support on the journals, said journals to serve as motor bearings and to carry their proportion of the weight of the car.

1,783,270. WINDSHIELD CLARIFIER. LE ROY ASKAM, Milford, Conn. Filed Apr. 2, 1929. Serial No. 351,877. 5 Claims. (Cl. 20—40.5.)



1. In combination, a windshield glass, a casing, a gasket having an opening therein intermediate said glass and a wall of said casing to provide a warm air pocket, a heating means within the casing, means to direct air into said casing, and means to conduct the air from the casing and direct it against the glass below the warm air pocket.

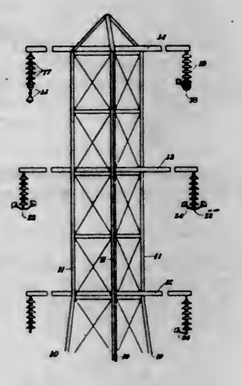
1,783,271. HIGH-POTENTIAL INSTALLATION. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed May 25, 1925. Serial No. 32,712. 1 Claim. (Cl. 173—251.)

A support for high potential transmission lines comprising two pairs of posts, the pairs being spaced from each other in a direction transverse to the line, and the posts of each pair being connected at their tops and spaced at their bottoms in the direction of the line, a single unitary structural member extending upwardly from the top of each pair of posts, a horizontally disposed cross



arm connecting said unitary members and supported thereby above the tops of said posts, and a transmission line mounted on said cross arm.

1,783,272. SUPPORT FOR TRANSMISSION LINES. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed May 25, 1925. Serial No. 32,713. 14 Claims. (Cl. 173—251.)

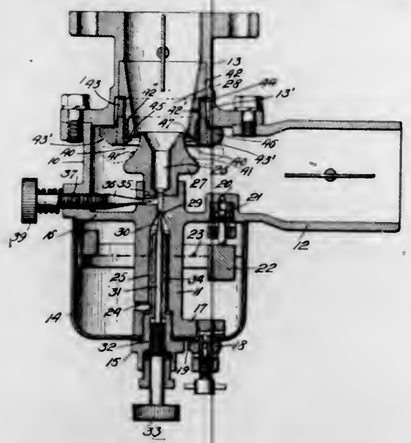


1. The combination with a transmission line of a support for said line which is quadrilateral in cross section, said line being disposed at one side of said support and extending substantially normal to the plane determined by one pair of diagonally opposite longitudinal extending corners of said support.

1,783,273. CARBURETOR. RALPH H. BEACH, Belleville, N. J. Filed May 9, 1927. Serial No. 189,891. 12 Claims. (Cl. 261—64.)

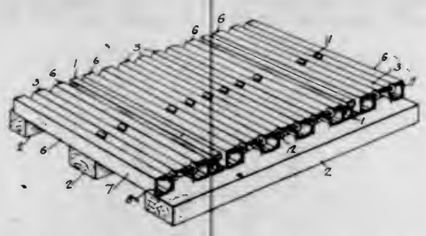
1. In a carburetor having a floating sleeve the bottom of which controls the admission of air in accordance with

the speed of the engine to which the carburetor is connected, a tubular wall extending downward into the upper



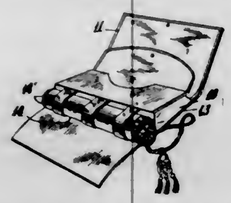
portion of the sleeve and providing between it and the sleeve a narrow clearance space to the top of which inflowing air has access.

1,783,274. RAILWAY-GRADE CROSSING. RAYMOND T. BELL, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed July 29, 1929. Serial No. 382,005. 8 Claims. (Cl. 238—8.)



1. A railroad crossing comprising a plurality of sheet metal channel sections in interlocking engagement with each other.

1,783,275. COMBINED LADY'S HAND BAG FOR UMBRELLAS AND POCKETBOOKS. ALFRED G. BERWIN, New York, N. Y. Filed Aug. 18, 1928. Serial No. 300,469. 2 Claims. (Cl. 150—1.7.)



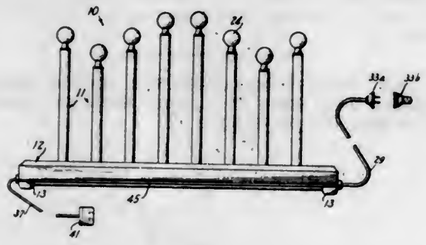
1. In combination with a lady's hand bag, a tubular chamber, an umbrella holding device, comprising a plurality of cross straps mounted within said tubular chamber and spaced from each other and in a straight line for receiving the umbrella, end straps on the ends of said tubular chamber to hold an umbrella against displacement thru the ends, one of the ends of each of the end straps being permanently fixed and the other ends detachable, and means for automatically holding against displacement an umbrella inserted in said chamber upon the closing of said end straps.

1,783,276. SOUND-CONTROLLING VENTILATING DEVICE. HOWARD R. BLISS, Flushing, N. Y. Filed Feb. 21, 1929. Serial No. 341,707. 13 Claims. (Cl. 98—99.)



10. A sound reducing and ventilating device including two spaced panels, and two communicating converging passageways, one located to the side of the other, one of the passageways being supported by each panel and both passageways pointing in the same direction.

1,783,277. ELECTRICAL DECORATIVE ILLUMINATING DEVICE. JOSEPH BLOCK, Brooklyn, N. Y., assignor to Noma Electric Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 2, 1928. Serial No. 316,837. 3 Claims. (Cl. 240—10.)



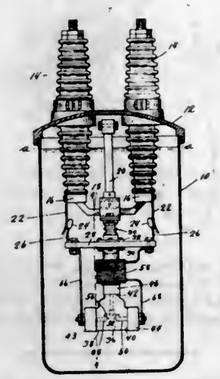
1. In an illuminating device, in combination, a base having a flat undersurface, a plurality of tubular members mounted thereon, lamp sockets attached to the free upper ends of said members, wiring connecting said sockets in electric circuit, said wiring having portions lying against the under-surface of said base, and means for covering said portions, said means comprising a plate secured to the underside of said base and having an elongated semi-cylindrical portion receiving and covering said wiring portions and flat wing portions extending from said semi-cylindrical portion contacting said undersurface of said base.

1,783,278. CLAMP FOR EXAMINATION DEVICES. CHARLES T. BRADY, Detroit, Mich. Filed May 31, 1927. Serial No. 195,570. 2 Claims. (Cl. 248—20.)



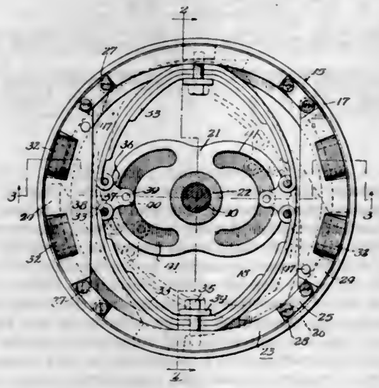
1. In a support for examination devices, a pair of arms each having at one end a flat depression oppositely disposed to each other, and at the other end a curved depression each oppositely disposed to the other, a supporting socket carried by one of the said arms and projecting on the longitudinal axis of such arm, and a clamp screw threaded through openings tapped in the said arms.

1,783,279. CIRCUIT INTERRUPTER. GEORGE A. BURNHAM, Saugus, Mass., assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass., a Corporation of Massachusetts. Filed Oct. 30, 1926. Serial No. 145,321. 19 Claims. (Cl. 200—150.)



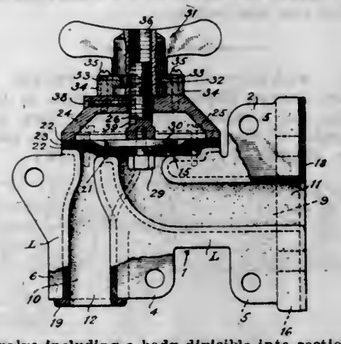
1. A circuit interrupter having current carrying members separable in an insulating fluid, circuit interrupting members separable in a vacuum, and separable disconnecting members arranged in series with said circuit interrupting members and in parallel with said current carrying members.

1,783,280. ELECTROMAGNETIC BRAKE. FLOYD O. CLIZBE, Chicago, Ill. Filed Mar. 26, 1928. Serial No. 264,709. 18 Claims. (Cl. 188—140.)



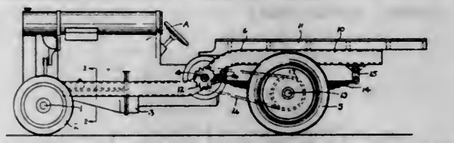
16. In a brake, the combination of a drum, a brake shoe positioned adjacent to said drum, electrically operated means connected to the shoe for imparting rotative movement thereto, and mechanism operable by such movement to force the shoe into contact with the drum for braking purposes.

1,783,281. VALVE. JULIAN H. COX, Newton, Mass., assignor to The Mechanical Rubber Company, Cleveland, Ohio, a Corporation of New Jersey. Filed Feb. 25, 1928. Serial No. 256,826. 9 Claims. (Cl. 251—24.)



1. A valve including a body divisible into sections along opposed faces at the sides of a fluid passage, each section being provided with an individual lining adapted to protect the passage portion thereof and extend between the opposed faces at the sides of the passage portions to form seals.

1,783,282. ATTACHMENT FOR TRACTORS. JAMES D. CUMMINGS, Houston, Tex. Filed June 13, 1927. Serial No. 198,374. 5 Claims. (Cl. 180—50.)



1. In a tractor having a crank case, front and rear axles, and means to drive said rear axle; the combination of longitudinal frame members, means on said crank case to support the forward ends of said members, a supplemental axle, drive wheels thereon, means on said supplemental axle to support the rearward ends of said frame members, said rear axle being supported in said frame, a sleeve rotatable on said supplemental axle, a plurality of operative means for connecting said rear axle and said sleeve, and means to engage either of said operative means with said drive wheels.

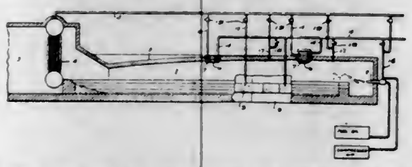
1,783,283. SWITCH STAND. SAMUEL L. EASTBURN, Sloatsburg, N. Y., assignor to Ramapo Ajax Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 22, 1929. Serial No. 334,169. 14 Claims. (Cl. 246—286.)



1. A housing for a switch stand comprising a base member adapted to support the switch stand and con-

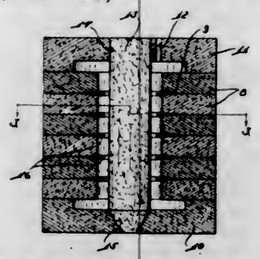
taining the switch operating mechanism, a central casing supported by said base member and separate cover plates extending on opposite sides of said casing and forming in connection therewith a substantially complete closure for said base member.

1,783,284. FURNACE COOLING BY STEAM. HENRY FREDERIC EASTER, Hayden, Ariz., assignor to American Smelting and Refining Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 9, 1928. Serial No. 260,446. 7 Claims. (Cl. 263—44.)



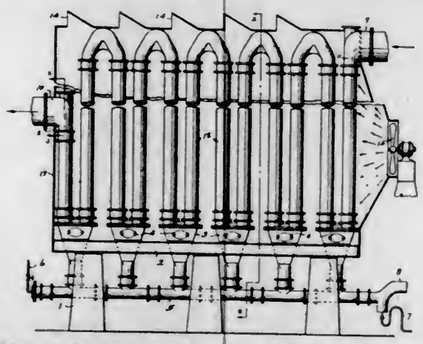
1. The method of protecting the inside wall of a metallurgical furnace from the scorifying action of the contents of said furnace which comprises forming a coating of steam on said inside wall, without substantially changing the normal operating atmosphere throughout the body of the furnace.

1,783,285. MOLD. WILLIAM G. GOODWIN, Royal Oak, Mich. Filed Sept. 10, 1928. Serial No. 304,960. 3 Claims. (Cl. 22—124.)



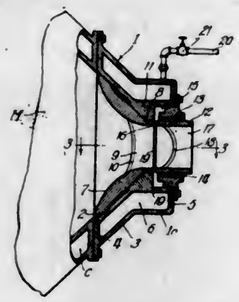
1. A mold comprising a plurality of superimposed sections each having a central opening and each having its face which engages with an adjacent section inclined to co-operate with the inclined face of the section engaged to provide a recess communicating with the central opening formed in the sections.

1,783,286. CONDENSER. EMANUEL W. HARTMAN, Phoenix, Ariz. Filed Feb. 13, 1930. Serial No. 428,076. 8 Claims. (Cl. 257—39.)



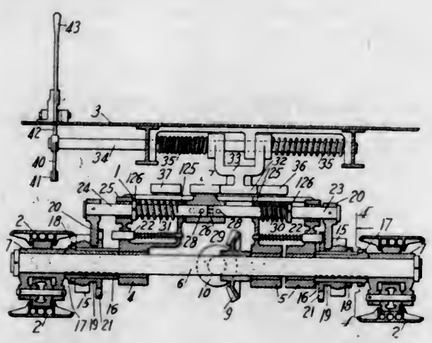
1. A condenser comprising a receiving channel having separate outlets, a plurality of traps connected into said channel, a plurality of coils, the turns of each coil being connected successively into the traps, common headers in which the coils terminate at each end.

1,783,287. BRICK-MAKING MACHINE AND METHOD. HENRY HILGENDORF, Harvey, Ill., assignor to National Brick Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 31, 1928. Serial No. 266,159. 6 Claims. (Cl. 25—17.)



1. In a brick making machine, means for splitting the clay column as it passes through the outlet opening of the machine, and means for supplying a lubricant to the surfaces of the split of the column within said opening.

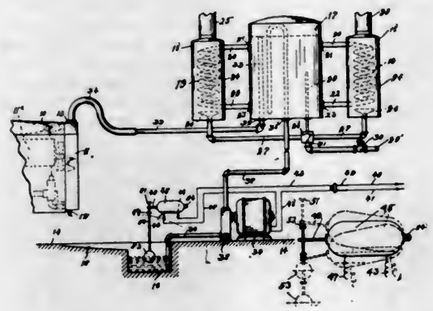
1,783,288. STEERING MECHANISM FOR SELF-PROPELLED VEHICLES. GRANT HOLMES, Danville, Ill. Filed Dec. 29, 1927. Serial No. 243,446. 12 Claims. (Cl. 180—9.2.)



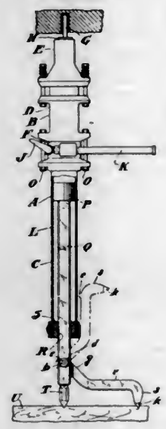
1. In a mechanism comprising a main frame, a structure rotatably mounted on said main frame, traction devices supporting said main frame, and clutches to connect the respective traction devices with driving mechanism, mechanism carried by said main frame to selectively operate said clutches, an actuating device mounted on said rotatable structure for movement lengthwise thereof and arranged to be moved into operative relation with said clutch operating mechanism by the rotation of said structure, and means mounted on said rotatable structure for moving said actuating device lengthwise of said rotatable structure to cause the same to operatively engage said clutch operating mechanism.

1,783,289. MOTOR HEATER. GEORGE W. HOPKINS, Cleveland, Ohio. Filed Sept. 11, 1928. Serial No. 305,290. 9 Claims. (Cl. 123—174.)

1. In a heating apparatus of the character described, the combination with the water circulating system of a motor vehicle, of means adapted to receive the liquid drained off from said system, a liquid storage receptacle, means for transferring said drained off liquid to said storage receptacle, means for heating the liquid in said receptacle, and means for conveying heated liquid from said receptacle to said circulating system.



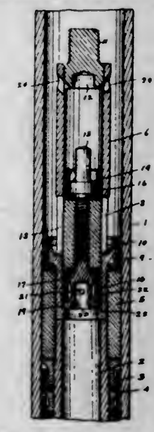
1,783,290. ANCHOR FOR DRILLING MECHANISM. GEORGE W. HULSHIZER, Stewartsville, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Feb. 19, 1929. Serial No. 341,193. 2 Claims. (Cl. 255—51.)



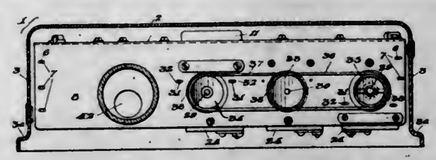
1. In a rock drill, the combination of a percussive element and a feeding element, said feeding element comprising a cylinder and a piston, a polygonal bore in the cylinder, a rod on the piston slidable in the bore and in engagement therewith to prevent rotation of the piston with respect to the cylinder, a slot in the feed rod, a pivot affixed to the feed rod and extending transversely through the feed rod and the slot and having a flat surface, and an anchor rotatable about the pivot and adapted to engage an abutment for preventing rotation of the rock drill, said anchor being adapted to interlock with the pivot for holding the anchor in the released position.

1,783,291. VALVE MECHANISM. JOHN P. HUMASON, Houston, Tex. Filed Apr. 28, 1928. Serial No. 273,651. 3 Claims. (Cl. 103—225.)

1. A traveling valve structure including a valve body, a coupling attached to the upper end thereof, a tubular cage whose lower end is attached to said coupling, said cage having side openings, an annular rib around said cage beneath said openings whose upper side is upwardly flared, an upwardly opening cup ring surrounding said rib and clamped between it and the upper end of said coupling, a plunger like valve slidable in said cage and adapted to open and close said openings.

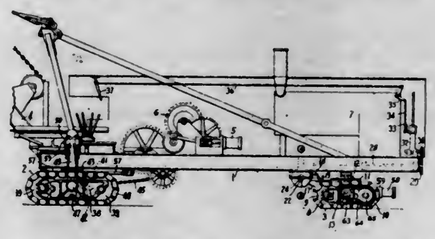


1,783,292. RADIO RECEIVING APPARATUS. ARTHUR ATWATER KENT, Ardmore, Pa. Original application filed Apr. 5, 1926, Serial No. 99,696. Patent No. 1,658,562. Divided and this application filed Jan. 5, 1928. Serial No. 244,605. 8 Claims. (Cl. 250—14.)



1. Radio receiving apparatus comprising a panel, a plurality of condensers having rotors adjustable about parallel axes carried by said panel on one side thereof, a second panel spaced from and substantially parallel with said first named panel on the opposite side thereof, drums secured to said rotors between said panels, and a band coupling said drums, at least one of said condensers being capable of lateral adjustment on said first named panel to effect tightening of said band.

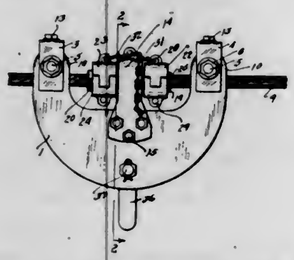
1,783,293. EXCAVATING MACHINE. CHARLES B. KING, BENJAMIN JACOBY, and DWIGHT J. SHELTON, Marion, Ohio, assignors to The Marion Steam Shovel Company, Marion, Ohio, a Corporation of Ohio. Filed Feb. 12, 1923. Serial No. 618,701. 9 Claims. (Cl. 180—81.)



1. In a mechanism of the character described, a main frame, a pivot pin depending from said main frame, a

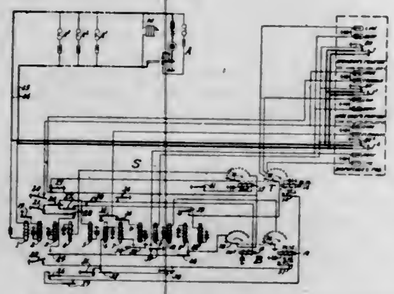
steering frame having a vertical bearing to receive said pivot pin, an axle mounted on said steering frame beneath said bearing for rocking movement with relation to said steering frame about an axis extending lengthwise of said main frame, traction devices connected with the respective ends of said axle, an arm projecting from said steering frame, means carried by said main frame for actuating said arm to move said steering frame and said axle about the axis of said pivot pin, an engine supporting structure carried by said axle and movable therewith about the axis of said pivot pin, an engine mounted on said structure, and driving connections between said engine and said traction devices.

1,783,294. LOADING JACK AND CLAMP. FREDERICK H. KNAPP, Kelso, Wash. Filed Apr. 25, 1929. Serial No. 358,108. 12 Claims. (Cl. 188—42.)



1. In a device of the class described, the combination of side wall body elements, yokes adjustably positioned on the upper opposite top sides of the side wall members, a shoulder pin fixedly positioned within each of the yokes, a sheave rotatably disposed upon each pin, means for raising and lowering each of the yokes relative to the side walls and a clamping head removably secured to the side wall members.

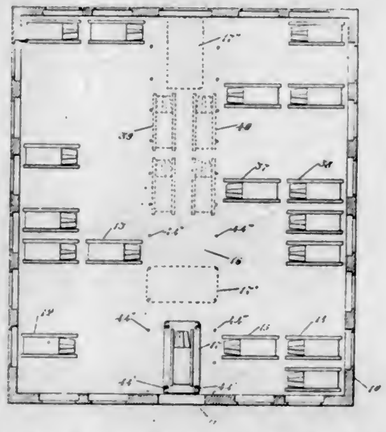
1,783,295. PARTY-LINE TELEPHONE SYSTEM. OSCAR C. LEVY, Chicago, Ill., assignor to Reserve Holding Company, Kansas City, Mo., a Corporation of Delaware. Filed Oct. 29, 1928. Serial No. 315,702. 33 Claims. (Cl. 179—27.)



19. In a telephone system, a dispatching operator's position, a subscriber's line terminating at said position, a flash-over signal for said line at said position, and means for operating said signal responsive to currents being induced in said line from an adjacent power line.

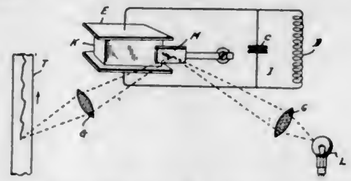
1,783,296. MEANS FOR HANDLING AND STORING MOTOR VEHICLES. GOTHARD LOWENSTEIN, Brooklyn, N. Y. Filed Oct. 17, 1927. Serial No. 226,757. 12 Claims. (Cl. 214—16.1.)

1. In a building for the purpose described, the combination with a floor, of a carrier comprising an overhead traveling carriage, and a platform suspended at a set distance therefrom, said platform extending substantially down and being substantially parallel to the level of said



floor, allowing a small clearance underneath said platform just sufficient to permit free displacement of said platform along said floor.

1,783,297. INDICATING MEANS FOR HIGH-FREQUENCY OSCILLATIONS. ALEXANDER MEISSNER, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie, m. b. H., Berlin, Germany, a Corporation of Germany. Filed Mar. 11, 1927, Serial No. 174,604, and in Germany Mar. 25, 1926. 4 Claims. (Cl. 171—95.)



1. A method for indicating the intensity of oscillations of high frequency energy which consists in measuring the extent of air disturbances occasioned in the immediate vicinity of a piezo electric crystal device while the latter is subjected to the effect of high frequency energy.

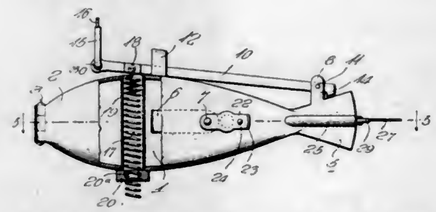
1,783,298. ELECTRIC SWITCH. GEORGE J. MEUER, Milwaukee, Wis., assignor, by mesne assignments, to Cutler-Hammer, Inc., a Corporation of Delaware. Filed May 31, 1928. Serial No. 281,890. 12 Claims. (Cl. 200—67.)



12. In a snap switch, the combination with a stamped sheet metal frame having parallel sides, said sides having perforations forming closed bearings, of a flat punched sheet metal plate of substantially U-shape, the arms of said U-shaped plate having integral angular projections adapted for sequential insertion into said bearings by tilting and edgewise movements of said plate with respect to said frame, said projections each having offset

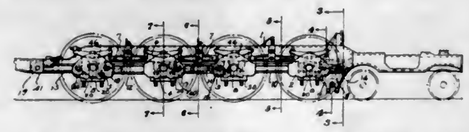
lower edge portions providing shoulders to limit edgewise movement of said plate after assembly of the parts, an actuating lever comprising a flat punched sheet metal plate pivotally supported by said frame above the pivotal center of said first mentioned plate and at right angles to the latter, means comprising a compression spring interposed between said lever and said first mentioned plate to effect snap movements of the latter to alternate extreme positions upon opposite movements of said actuating lever, and projections integral with said second mentioned plate for alternate engagement with said frame to limit movement of said lever in opposite directions respectively.

1,783,299. ANTENNA WEIGHT. CARLOS B. MIRICK, Washington, D. C., assignor to National Electrical Supply Company, Washington, D. C., a Corporation of Virginia. Filed Dec. 6, 1929. Serial No. 412,121. 10 Claims. (Cl. 250—33.)



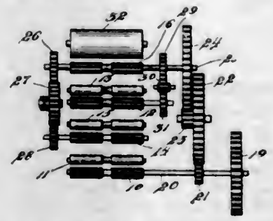
1. An antenna weight comprising a pair of shell portions hinged together at one end for enclosing a load therein, an antenna wire, a latching mechanism connected with said antenna wire and secured to said antenna weight for normally maintaining the portions of said shell in locked engagement, and means for tripping said latch mechanism for spreading the parts of said shell when the tension on said antenna wire is released.

1,783,300. LOCOMOTIVE STRUCTURE. JOHN L. MOHUN, Omaha, Nebr. Filed Aug. 27, 1927. Serial No. 215,831. 30 Claims. (Cl. 105—172.)



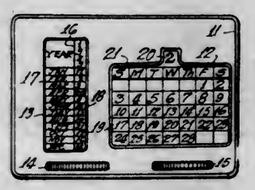
1. In a locomotive, a pedestalless main frame, three or more driving boxes arranged longitudinally of the locomotive, means for transmitting longitudinal forces between all of said boxes independently of said frame, and means for transmitting longitudinal forces from said boxes to said frame.

1,783,301. SPINNING FRAME. CHARLES MORTON, Pawtucket, R. I. Filed Feb. 6, 1930. Serial No. 426,299. 5 Claims. (Cl. 19—130.)



1. In a yarn drafting machine, a group of draft rolls, comprising a pair of front rolls, a pair of back rolls, and a pair of intermediate rolls all arranged in closely spaced relation to run with their peripheries just clear of each other, gears for driving said front and back rolls at different relative speeds, and a back feed draft roll thru which said pair of intermediate rolls is driven.

1,783,302. PERPETUAL CALENDAR. JOHN H. NEWTON, Nutley, N. J. Filed Apr. 17, 1929. Serial No. 355,912. 2 Claims. (Cl. 40—117.)



1. A perpetual calendar comprising a stand with a pair of parallel rollers in the base thereof and a platen mounted above said rollers, a band having calendar characters passing over said platen and engaging said rollers to be rolled and unrolled as the band is passed over the platen in adjusting the calendar, a second pair of rollers parallel with the first mentioned rollers and a platen mounted above said rollers, a second band having calendar characters passing over said second named platen as the calendar is adjusted, a shaft geared to the first pair of rollers and a second shaft geared to the second pair of rollers and a stop mechanism on each of said shafts limiting the movement of said shafts to two revolutions.

1,783,303. SHOOTING GAME. LOUIS OBERNDORFER, New York, N. Y. Filed Oct. 20, 1928. Serial No. 313,674. 4 Claims. (Cl. 273—106.5.)



1. In combination with a game of the class described, a dart comprising a tail pivotally attached to a body member, a spring adapted to engage the said tail as a means of holding the said tail in an angularly extended position.

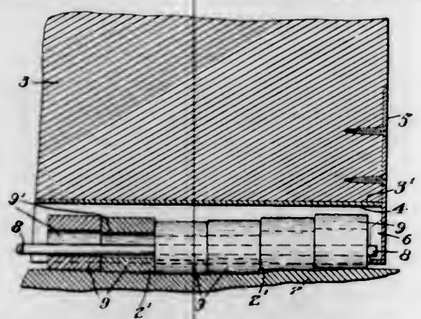
1,783,304. METHOD OF PRODUCING COLLOIDAL SILICIC ACID. ALEXANDER P. OKATOFF, Leningrad, Union of Socialist Soviet Republics. Filed Nov. 12, 1928. Serial No. 319,022. 1 Claim. (Cl. 23—182.)

A process of producing colloidal silicic acid, consisting in mixing sodium silicate with hydrochloric acid, determining the beginning of the readiness of the gel by the beginning of the synæresis, treating said gel with solutions of salts of polybasic acids of metals together with ammonia thereby partly neutralizing said hydrochloric acid in said gel.

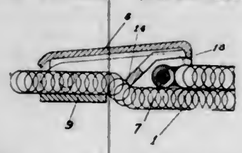
1,783,305. ROLLER WEATHER STRIP FOR DOORS. AXEL OLSON, West Roxbury, Mass. Filed Mar. 18, 1929. Serial No. 347,978. 1 Claim. (Cl. 20—68.)

In combination, a door having a bottom edge channel, bearings at the ends of said channel, a rod extending from end to end of said channel and mounted at its ends in said bearings, and a series of rollers mounted on said rod in end to end relation and having a collective length substantially equal to the length of said channel, said rod being mounted in said bearings for free vertical move-

ment to permit the series of rollers to move vertically independently of any vertical movement of the rollers relative to the rod, and each roller having a rod receiving bore of materially greater diameter than the rod to permit individual vertical movement of the rollers relative to the rod.

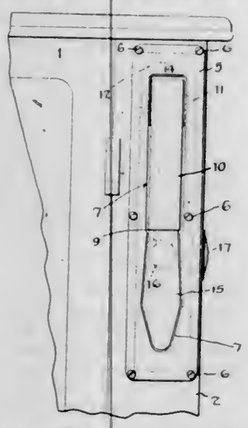


1,783,306. CATCH CLASP FOR LADIES' MESH BRACELETS. LAWRENCE F. OTTEN, Fort Thomas, Ky., assignor to The Wadsworth Watch Case Co., Dayton, Ky., a Corporation of Kentucky. Filed Oct. 8, 1929. Serial No. 398,165. 3 Claims. (Cl. 24—191.)



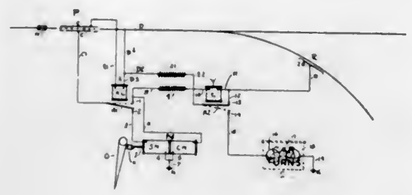
1. A sliding clasp for a mesh wrist watch bracelet comprising a plate to underlie the bracelet and a plate to overlie the bracelet, said plates being hinged together with a hinge pin, a sleeve mounted on said hinge pin and an end of the bracelet soldered to said sleeve, one of said plates having an extension acting as a spring arranged to bear against a continuous portion of the bracelet and thus secure the clasp in desired adjustable positions on said bracelet.

1,783,307. PROTECTED DIRECTIONAL SIGNAL. THEODORE PATOCKA, College Point, N. Y., assignor to Thomas R. Brooks, Scranton, Pa. Filed Feb. 4, 1929. Serial No. 337,322. 1 Claim. (Cl. 116—54.)



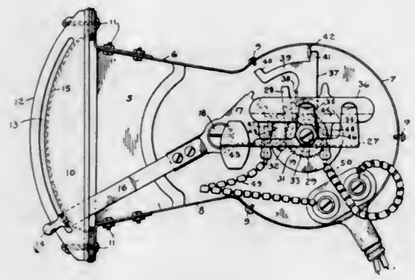
In combination with a signal arm of predetermined shape, a casing for housing said arm having a face-plate with an opening the shape of the arm through which the latter may be swung, a bull's-eye secured to the casing in the side thereof at an angle to the face-plate and at the lower end of the casing, a translucent member carried by the signal arm at its outer end, a lamp carried by said arm and projecting into said member and located opposite said bull's-eye, whereby when the arm is in its casing the lamp will show through the bull's-eye, and when the arm is swung through said opening the lamp will show through said member.

1,783,308. ELECTRIC SWITCH AND SIGNAL SYSTEM. FRANK H. RICHTERKESSING, Louisville, Ky., assignor to The Cheatham Electric Switching Device Co. and Nachod and United States Signal Co., Louisville, Ky. Filed Mar. 24, 1928. Serial No. 264,439. 14 Claims. (Cl. 246—227.)



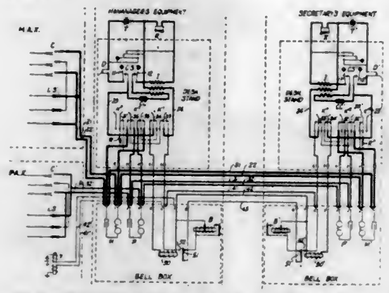
1. In an automatic switch and signal system, the combination of a signal circuit including a signal, an actuating solenoid, a relay operable to selectively direct currents through different parts of the actuating solenoid, and a second relay for controlling the said signal circuit and arranged to be automatically shunted out upon a flow of saturating current through one branch of the said solenoid.

1,783,309. THERMOSTATIC DEVICE. EDWIN A. RUTENBER, Milwaukee, Wis., assignor to A. J. Lindemann & Hoverson Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 19, 1928. Serial No. 306,885. 9 Claims. (Cl. 200—139.)



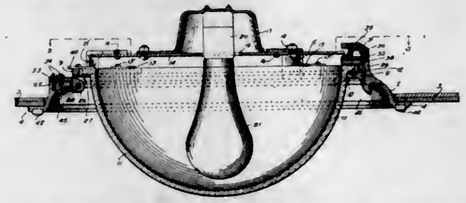
1. A thermostatic control for electrical apparatus comprising a supporting member, a movable actuating element supported by said member, thermally responsive means operatively connected with said member and element, means frictionally secured to said member for adjusting the position thereof, an arm fixed to said element, a contactor operable by said arm, said actuating element constructed and arranged to loosely support said contactor and manually operable control means for varying the position of both said member and said element.

1,783,310. TELEPHONE-STATION EQUIPMENT. NORMAN HERBERT SAUNDERS, Homewood, CLARENCE E. LOMAX, Oak Park, and THEODORE C. RIEBE, Chicago, Ill., assignors to Reserve Holding Company, Kansas City, Mo., a Corporation of Delaware. Filed Dec. 22, 1927, Serial No. 241,746. Renewed May 2, 1929. 17 Claims. (Cl. 179—27.)



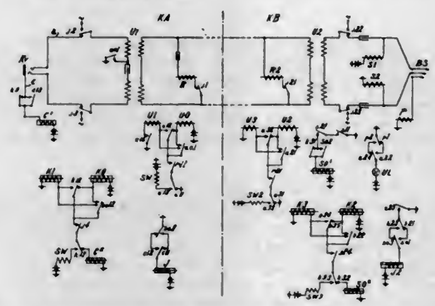
1. In a telephone system, a main exchange line, a branch exchange line, and two telephones terminating said lines from either of which a call to either of said lines may be answered independent of any operation at the other telephone.

1,783,311. LIGHTING FIXTURE. LINDSLEY SCHEPMOES, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company, a Corporation of New Jersey. Filed Feb. 19, 1929. Serial No. 341,129. 15 Claims. (Cl. 240—7.35.)



1. In lighting fixtures, in combination, a ceiling ring adapted to fit a ceiling opening and having a visibly exposed surface disposed above the ceiling surface, and a luminous bowl supported by said ring to illumine the exposed surface thereof.

1,783,312. TELEPHONE SYSTEM. WERNER SCHULZ, MAX FRISCHKE, and KARL SCHIFFMANN, Berlin, Germany, assignors to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany. Filed Oct. 9, 1926, Serial No. 140,448, and in Germany Oct. 22, 1925. Renewed May 20, 1929. 13 Claims. (Cl. 179—41.)

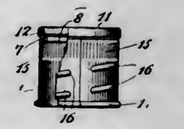


3. In a telephone system, a trunk comprising incoming and outgoing sections, means responsive to the extension of a connection over one of said sections for sending a momentary impulse of current to the other section, means responsive to the extension of a connection over the other section for continuously transmitting current impulses to the first section, and signalling means at each section responsive to impulses transmitted from the other section.

1,783,313. MATERIAL FOR CONVERSION INTO CELLULOSE DERIVATIVES AND PROCESS OF PRODUCING THE SAME. MILTON O. SCHUR and ROYAL H. RASCH, Berlin, N. H., assignors to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Oct. 9, 1926. Serial No. 140,675. 21 Claims. (Cl. 260—146.)

9. A tissue especially suitable for conversion into cellulose derivatives, comprising mercerized wood fiber.

1,783,314. TWO-PIECE CLOSURE CAP. EDGAR SCOFIELD, New York, N. Y., assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y., a Corporation. Filed Aug. 25, 1927. Serial No. 215,313. 11 Claims. (Cl. 215—44.)



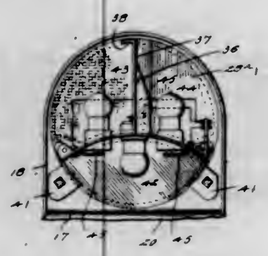
1. A two-piece closure cap comprising a body portion having a continuous annular groove pressed inwardly adjacent one end thereof, the convex side of said groove being on the interior of the body portion, and a button adapted to rest against the convex side of said groove and enclosing the end of said body portion, the upper end of said body portion being turned inwardly to rest against the outer circumferential portion of said button and to hold said button firmly against said groove.

1,783,315. TINSEL CORD. JOHN R. SEXTON, Meriden, Conn. Filed Nov. 4, 1929. Serial No. 404,536. 3 Claims. (Cl. 117—52.)



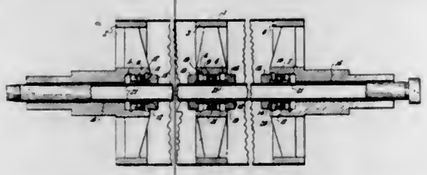
1. A cord comprised of a core, a strand of tinsel of contrasting color extending parallel with and on the surface of the core, and a strand of tinsel of a different color tightly wound spirally about the core and parallel strand.

1,783,316. COMBINED LICENSE-TAG MOUNTING AND SIGNAL AND TAIL LIGHT. EDWARD LACY SHELTON, Memphis, Tenn. Filed Jan. 24, 1929. Serial No. 334,787. 1 Claim. (Cl. 177—329.)



In a signal light construction, a cylindrical casing having the opposite ends thereof open, an annular reflector mounted in the casing and engaging the inner walls thereof, a license plate bracket, said license plate bracket having an upstanding flanged ring mounted thereon, the forward end of said casing seating in said casing, said casing having an opening through the bottom wall thereof, a lens removably mounted in said opening, a downwardly inclined arcuate member having reverted end portions mounted in said casing and above said wall opening, said member having outwardly extending eers for engagement with said bracket whereby to hold the casing thereon, a substantially vertically disposed arcuately inclined reflector secured at one end to said first arcuate member and at the opposite end engaging said annular reflector, said first member and second member dividing said casing into light compartments, lamps mounted in each compartment, lenses mounted in the casing and at the opposite end portions of each compartment, and removable means for holding the lenses against the opposite end portions of the casing.

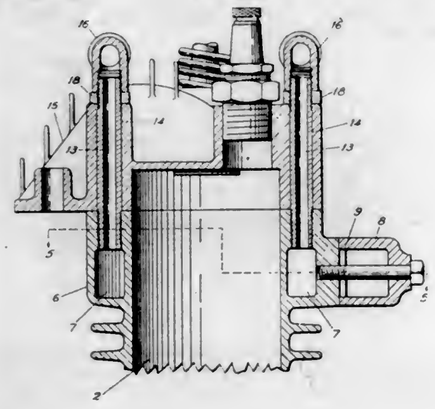
1,783,317. BALL-BEARING MOUNTING FOR DANDY ROLLS. PETER S. SINCLAIR, Holyoke, Mass. Filed Feb. 14, 1930. Serial No. 428,340. 5 Claims. (Cl. 92—48.)



1. A dandy roll construction comprising a tubular member composed of non-corroding material and formed with water discharging openings, a plurality of ball bearings mounted on the tubular member for rotatably supporting the woven wire fabric of the roll, ring members for securing the woven wire of the roll, the ball bearings being located adjacent the discharge openings.

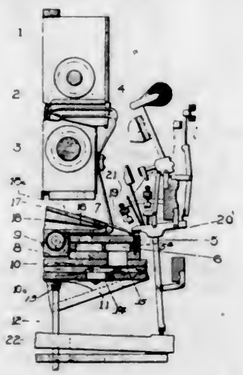
1,783,318. ENGINE-COOLING COWL. OWEN H. SPENCER, Indianapolis, Ind. Filed June 17, 1929. Serial No. 371,362. 6 Claims. (Cl. 123—171.)

1. The combination with the cylinders of an engine having passage forming jackets surrounding the same, and bores thru which the air escapes from said passages, of means for directing a blast of air over the exterior of said cylinders, means for collecting a portion of the blast of air and directing the same into and thru said passages, and means at the discharge ends of said bores



for causing the external blast of air to create a suction thru said bores and aid in the discharge of the air from said passages.

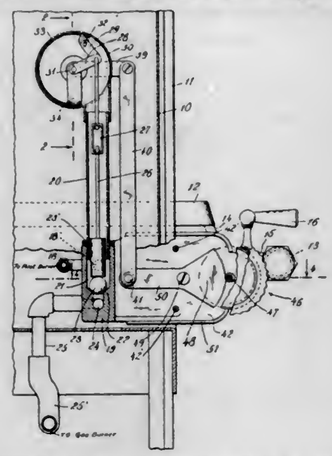
1,783,319. MECHANISM FOR PLAYER PIANOS. WILLIAM B. TUNSTALL, Worcester, Mass. Filed July 11, 1927. Serial No. 204,873. 6 Claims. (Cl. 84—50.)



1. In a mechanism for automatic musical instruments, in combination, a plurality of similar pneumatic power units and a single wind chest having two chambers, one connecting the exhausters and the reservoir, and the other forming a common channel for conveying the vacuum effect from said exhausters to pneumatic power units fastened thereon.

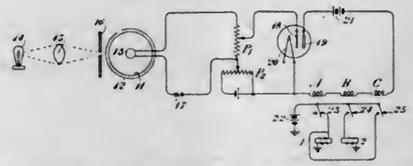
1,783,320. THERMOSTATIC-CONTROL APPARATUS. ARTHUR W. WALKER, Malden, Mass. Filed Oct. 27, 1928. Serial No. 315,443. 2 Claims. (Cl. 236—15.)

1. In combination with an oven a thermostatic element and a fuel valve controlled by said element both located inside said oven, a calibrated adjusting device for said thermostatic element situated outside of said oven near the bottom thereof below said thermostat and remote therefrom and operatively connected to said thermostatic element by means of a segmental gear adapted



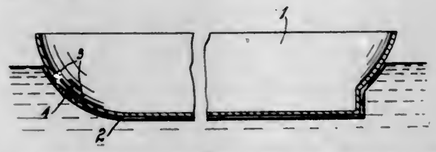
to be operated by said adjusting device, a lever arm adapted to operate said thermostatic element and a link operatively connecting said lever and said gear.

1,783,321. ELECTRICAL TRANSMISSION OF PICTURES. ALLAN WEAVER, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Mar. 26, 1924. Serial No. 702,109. 6 Claims. (Cl. 178—7.)



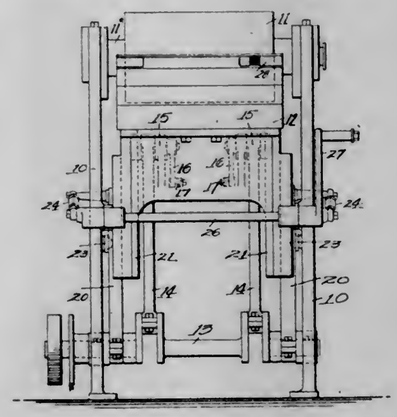
1. A picture representation, a light-sensitive element, an electric circuit connected with said light-sensitive element to be controlled thereby, amplifying means associated with said circuit, means to test the elements of said picture representation in succession and actuate said light-sensitive element accordingly, and means associated with said amplifying means adapted to be adjusted to obtain a suitable functional relation between the current in said circuit and the quantity of light incident on said light-sensitive element.

1,783,322. ANTIFRICTION ATTACHMENT FOR VESSELS. ALBERT L. WIDDIS, Harrisville, Mich. Filed Oct. 23, 1929. Serial No. 401,665. 4 Claims. (Cl. 114—67.)



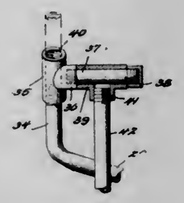
1. An attachment for vessels comprising a pipe extending from substantially the water line at the bow to the water line at the stern, means to secure said pipe to the vessel, said pipe having holes therein which extend outwardly and rearwardly, and intake pipes extending into said first named pipe, and baffles on the hull of the vessel, said baffles extending substantially the length of the vessel.

1,783,323. TILTING CASTING BOX. HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Oct. 12, 1926, Serial No. 141,168. Renewed Apr. 17, 1930. 9 Claims. (Cl. 22—2.)



1. In a stereotype plate casting device, the combination with a core, of a reciprocable concave back cooperating with the core and having means for holding the matrix therein, said back being mounted to swing on a horizontal axis at a distance beyond the convex side of the back to a position at the side of the core for facilitating the positioning of the matrix.

1,783,324. EXTENSION CLUTCH CONTROL FOR TRACTOR EQUIPMENT. FRANK L. YOUNG, Washington, D. C., assignor to William D. Shoemaker, Washington, D. C. Filed Dec. 9, 1927. Serial No. 238,840. 4 Claims. (Cl. 74—39.)

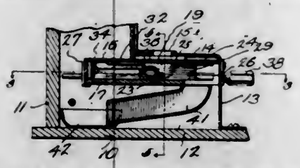


2. In a piece of equipment adapted to be used in connection with a gas tractor, an extension clutch control for the tractor clutch comprising an oscillatory rod, one end of which is provided with means for depressing the clutch pedal during the movement of the rod, an operating element for oscillating said rod, and means for connecting said operating element to said rod either in linear extension of the rod to form a hand control or as a pendant extension from said rod to form a foot control.

1,783,325. COIN-CONTROLLED VENDING MACHINE. JOSEPH W. BEESON, East St. Louis, Ill., assignor to John E. Carson, Belleville, Ill. Original application filed Dec. 29, 1928, Serial No. 329,275. Divided and this application filed Oct. 26, 1929. Serial No. 402,647. 2 Claims. (Cl. 194—80.)

1. In a coin controlled article vending machine, a casing, a pair of spaced guide plates horizontally mounted in said casing, a carriage slidably mounted between said plates including a side strip, the lowermost plate hav-

ing a coin exit slot therein, the uppermost plate having a coin entrance slot therein, in rear of the coin exit slot, a manually controlled operating plunger slidably mounted in the casing having a manipulating knob arranged exteriorly of the casing, a lock plate rigidly connected with the plunger, means slidably connecting the lock plate with one side strip of the carriage, the mentioned side strip of the carriage and the lock plate having inwardly directed coin gripping means formed thereon in spaced relation relative to one another directly below the coin



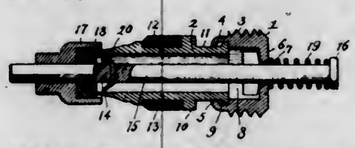
entrance slot, whereby upon the depositing of a coin in said slot the plunger will be locked with the carriage upon forward movement of the plunger, the coin being movable with the carriage and plunger above the coin exit slot upon forward movement of the carriage, whereby upon the return movement of the plunger the coin will be released for movement through said exit slot, and means carried by the lock plate for engaging the carriage on its return movement to return the carriage to its normal position.

1,783,326. WINDOW PANE. AUGUST BÖTTNER, Eltmannshausen, Germany. Filed Sept. 12, 1928, Serial No. 305,550, and in Germany Jan. 23, 1928. 1 Claim. (Cl. 20—56.5.)



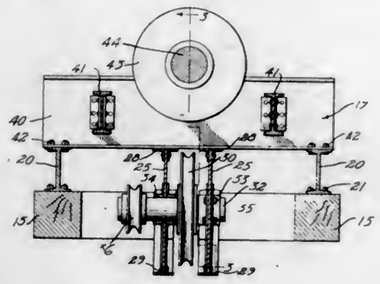
A window pane, comprising two spaced glass plates having each a groove in each rim and being so arranged relatively to one another that the grooves of the two plates lie opposite one another, and packing strips located in said grooves.

1,783,327. VALVE INSIDES. JOHN C. CROWLEY, Cleveland Heights, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 13, 1929. Serial No. 406,767. 2 Claims. (Cl. 152—12.)



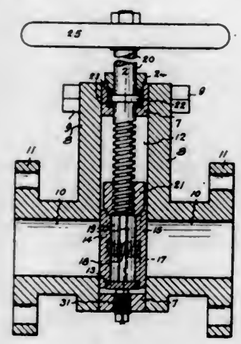
1. A valve pin for use with a valve insides and having an enlargement formed thereon and adapted to lie adjacent the valve proper carried by the pin, said enlargement comprising a cup-like portion integrally formed on said pin and surrounding the same.

1,783,328. CROWN BLOCK. WILLIAM D. DAVIDSON, Los Angeles, Calif., assignor to Emsco Derrick & Equipment Company, Los Angeles, Calif., a Corporation of California. Filed Jan. 9, 1928. Serial No. 245,590. 1 Claim. (Cl. 254—190.)



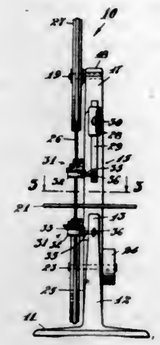
In a crown block construction the combination of: a frame including a pair of members, end portion of which are adapted to rest upon the water table of the derrick, and a central portion of which extends downwardly from said end portions; and a pair of lower sheaves rotatably mounted between said central portions of said frame members, the lower edges of said central portions being disposed below the lower portions of said sheaves.

1,783,329. VALVE. JOHN H. EDMONDS, Seattle, Wash., assignor of one-third to Joseph E. Bellam, Seattle, Wash. Filed Jan. 16, 1928. Serial No. 246,938. 2 Claims. (Cl. 251—59.)



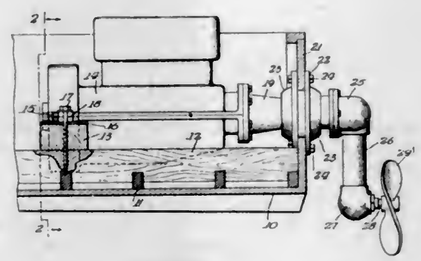
1. In a valve, a housing member having an open central portion of rectangular shape, end plates removably secured to said housing member and having aligned passageways that register with the open central portion of the housing member, a valve ring arranged for movement within the housing member, a stem having threaded engagement with the valve ring for moving the same into and out of alignment with the passageways in said end plates, two disks having cylindrical portions telescoped within said ring, said discs having radial grooves in their inner faces affording clearance for said stem when the valve is opened, flanges on said disks arranged to engage the outer side of said ring, springs between the discs for yieldingly holding the same against the end plates, and adjustable means on the bottom of said housing for limiting the downward movement of said valve ring.

1,783,330. SAW GUIDE. WILLIAM W. EDWARDS, Los Angeles, Calif. Filed Dec. 16, 1929. Serial No. 414,422. 7 Claims. (Cl. 143—162.)



1. A band-saw guide comprising two members mounted in rotatable relation to each other and allowing the band saw to pass therethrough with clearance; means for securing the members to each other in any of selected rotative positions; means adjustably mounted upon one of the members so as to guidably engage the sides of the band saw, the saw-engaging means being adapted to twist the band saw in certain selected positions of the members; and means for securing the saw-engaging means, in any of the adjusted positions to the respective member.

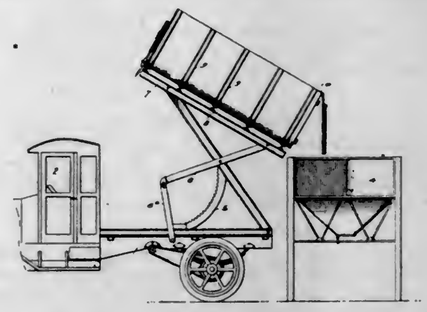
1,783,331. PROPELLING MECHANISM FOR BOATS. EMERY H. FAHRNEY, Chicago, Ill. Filed Nov. 15, 1929. Serial No. 407,450. 6 Claims. (Cl. 115—34.)



1. Boat propelling mechanism of the outboard motor type, embodying a motor arranged adjacent the stern, means providing a three point suspension of the motor directly upon the framework of and within the boat, said suspension means embodying a ball and socket connection between the motor casing and the back board of the boat, a shaft extending from the motor through the back board of the boat, a vertical shaft depending from the motor shaft, and a propeller operatively connected with the vertical shaft.

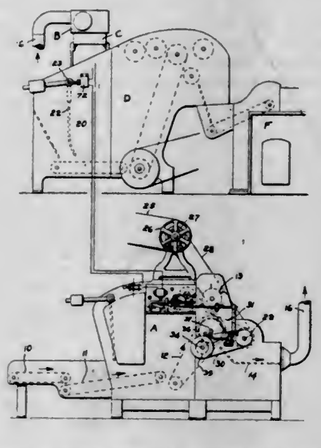
1,783,332. METHOD OF PRODUCING, TRANSPORTING, AND HANDLING CEMENTITIOUS MATERIAL. OTA T. GRAHAM and OAKLEY J. GRAHAM, Richmond, Va. Filed Feb. 24, 1928. Serial No. 256,709. 6 Claims. (Cl. 83—73.)

1. In a method of producing, transporting, and handling cementitious materials, those steps which include the mixing of the cementitious material in batches at a mixing plant, dumping the mixed material in quantities as desired into carriers for delivery to points distant while plastic, agitating the cementitious material while in



transit, bodily elevating the whole mass of concrete and dumping the same in quantities as desired at a point above the normal position of the chassis of the carrier.

1,783,333. AUTOMATIC FEED CONTROL FOR COTTON-OPENING MACHINERY. EDWIN M. HOLT, West Durham, N. C., assignor to Whitin Machine Works, Whitinsville, Mass., a Corporation of Massachusetts. Filed July 31, 1929. Serial No. 382,424. 7 Claims. (Cl. 19—68.)



1. A cotton opening machine comprising a feeding conveyor, a belt drive therefor including tight and loose pulleys, a belt shipper to move the belt from one pulley to the other, a sliding bar connected to said belt shipper, a second sliding bar, means to continuously reciprocate said second bar, a plurality of cotton feeders, and means controlled by the joint action of all of said feeders effective to connect said bars to each other, whereby said first bar is actuated to stop the feed in the opening machine.

1,783,334. COLLOIDAL SILVER IODIDE COMPOUND AND METHOD OF PREPARING SAME. HARRY SANDERLIN KEELAN, Brooklyn, N. Y., assignor to E. R. Squibb and Sons, Brooklyn, N. Y., a Corporation of New York. Filed Jan. 13, 1927. Serial No. 161,023. 5 Claims. (Cl. 252—6.)

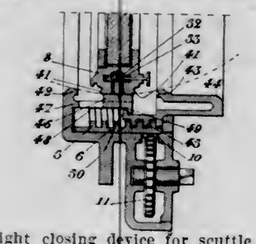
1. The process of preparing colloidal silver iodide, which comprises subjecting an insoluble silver salt in colloidal solution to reaction with an iodide of an alkali forming metal.

1,783,335. AUTOMOBILE BUMPER. FRANK J. LAHER, Oakland, Calif. Filed May 10, 1926. Serial No. 107,845. 5 Claims. (Cl. 293—55.)



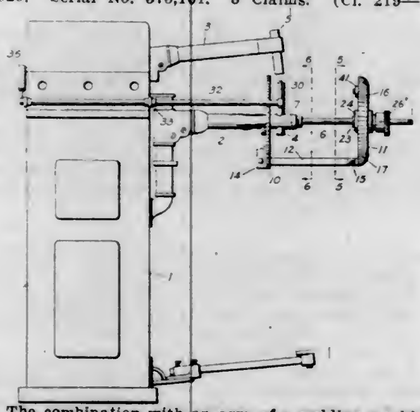
1. An automobile bumper comprising an impact member secured adjacent its ends to a support member so as to form substantially open looped ends, and a rubber block at each end of the impact member forming means for securing said members together.

1,783,336. SCUTTLE PORT AND LIKE TIGHT-CLOSED WINDOW. LOUIS LALANNE, Marseille, France. Filed Mar. 7, 1929, Serial No. 345,046, and in France Jan. 9, 1929. 6 Claims. (Cl. 114—178.)



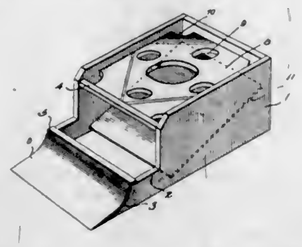
1. In a tight closing device for scuttle ports and the like, the combination of a pane holder constituted by two co-axial rings, the inner one of them having an exterior lateral surface curved in accordance with the radius of the inner lateral surface of the outer ring in such a manner as to ensure a tight closure between both rings, pivots connecting both rings together and enabling the inner ring to oscillate, a projecting member with tenon on the outer circumference of the outer ring of the pane holder, a fixed frame work, a transversal guide for said projecting member and tenon, a movable ring with nose for coacting with said tenon, an actuating ring acting upon said movable ring, means for moving said actuating ring in such a manner as to axially displace said actuating ring and said movable ring relatively to one another, the front side of the inner ring of the pane holder having a ring shaped tightening surface, and a second ring shaped tightening surface with the same diameter as the first one, in front of same and carried by the frame work.

1,783,337. ATTACHMENT FOR WELDING MACHINES. EARL W. LITTLE, Indianapolis, Ind. Filed June 24, 1929. Serial No. 373,101. 5 Claims. (Cl. 219—4.)



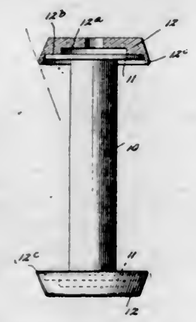
5. The combination with an arm of a welding machine, and an electrode extending therethrough, of a shaft attached to the end of said arm, a supporting and shaping structure adapted to support an assemblage of cage forming wires, said supporting and shaping member and said assemblage of wires enclosing said electrode and the adjoining ends of said arm and shaft, means for adjusting said shaft lengthwise for locking said electrode in adjusted position, and means for operating said shaft for releasing or locking said electrode when the cage forming wires are in position on said combined supporting and shaping means.

1,783,338. GAME APPARATUS. CHAUNCEY R. MANN, Troy, N. Y. Filed Mar. 29, 1930. Serial No. 439,993. 1 Claim. (Cl. 273—123.)



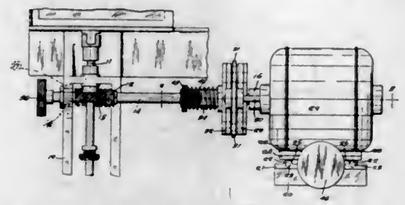
In a unitary baseball game device, a box-like frame having a front apron inclined rearwardly and upwardly and formed on a curve increasing in curvature from its front edge rearwardly, a horizontal top-plate supported by the frame rearwardly to and at a higher level than the apron and having represented thereon a baseball diamond with perforations representing conventional baseball terms, a cutout portion rearwardly of the apron and in front of the top-plate providing a space between apron and plate serving as a hazard and as a means of access to the interior of said frame, a bottom plate supported by the frame and inclined toward the front of the frame, the construction being such that a ball propelled in a longitudinal direction toward the apron will strike the same and be given a steep trajectory in a rearward direction so that it may enter a perforation in the top-plate.

1,783,339. BOBBIN OR SPOOL CAP. JOHN R. MITCHELL, Trenton, N. J. Filed Oct. 9, 1928. Serial No. 311,316. 2 Claims. (Cl. 242—161.)



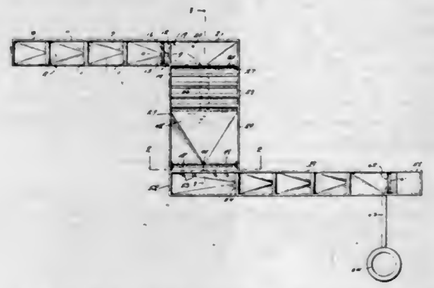
1. As an article of manufacture a cap for covering the heads of bobbins or the like, said cap being integrally formed of vitreous material and having on one side a recess, a ledge surrounding said recess and having a flat surface, the material of said cap around said recess being thickened to form said ledge, whereby warping of the cap during manufacture is prevented, and a flange surrounding said ledge.

1,783,340. GEAR DRIVE FOR CINEMATOGRAPHIC PROJECTORS. ELWYN E. OLIVER, Cleveland, Ohio. Filed July 2, 1927. Serial No. 203,041. 6 Claims. (Cl. 74—26.)



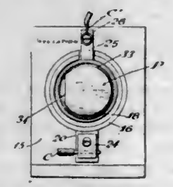
1. A variable speed drive for a cinematographic projector, comprising: a driven shaft, connected to said projector to operate said projector; a driving shaft, parallel to said driven shaft and movable toward and from said driven shaft; an intermediate disc, carried by one of said shafts; a sleeve, rotatable with the other of said shafts but reciprocable longitudinally thereon; and a pair of cooperating discs, rotatable with said sleeve but movable toward and from each other, and provided with inner faces adapted to cooperate with the two faces of said intermediate disc at a distance from the axis of one of said shafts variable and depending upon the then distance by which said shafts are separated.

1,783,341. SYSTEM OF FILTRATION. JOHN PUGLIESE, South Manchester, Conn. Filed Aug. 31, 1929. Serial No. 389,759. 5 Claims. (Cl. 210—5.)



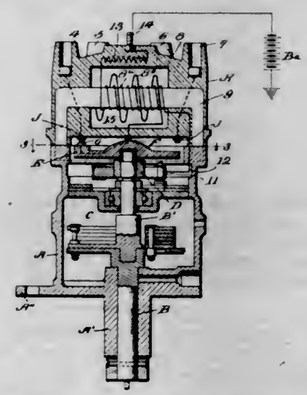
1. A filtering apparatus comprising an upper tank, partitions dividing the tank into a plurality of chambers, each chamber discharging into the next chamber over an interposed partition, each of said partitions having an opening adjacent to the bottom of the tank, a valve closing each of said openings, said partitions having additional openings spaced above the bottom of the tank, valves for closing said second named openings, a trough into which the tank discharges, and a filtering medium within the trough.

1,783,342. LOCKING PLUG FOR ELECTRIC CIRCUITS. FREDERICK E. REINHOLD, Van Nuys, Calif. Filed May 8, 1928. Serial No. 276,172. 1 Claim. (Cl. 173—356.)



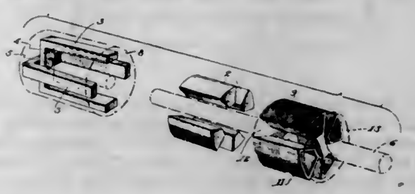
In combination, an electric socket having a screw shell, and a one part screw plug having a circular head secured in said shell, the periphery of said head being deformed and of slightly less diameter than the internal diameter of said shell and adapted to be engaged by a circular socket tool whose inner periphery is deformed similar to the periphery of the plug for removing the same from the shell, the head of said plug being disposed below the rim of the screw shell when the plug is secured therein to prevent unauthorized removal.

1,783,343. BATTERY IGNITION SYSTEM. CURT FREDERICK REIS, Chicago, Ill., assignor to Excel Magneto Co., Chicago, Ill. Filed Mar. 26, 1929. Serial No. 350,039. 6 Claims. (Cl. 123—148.)



1. A distributor head comprising a body of molded insulating material having embedded therein an induction coil, said coil being provided with an angular core the two ends of which are exposed at spaced points on the flat bottom face of said distributor head.

1,783,344. ROTOR FOR MAGNETOS. CURT FREDERICK REIS, Chicago, Ill., assignor to Excel Magneto Company, Chicago, Ill. Filed Sept. 17, 1929. Serial No. 393,245. 6 Claims. (Cl. 171—206.)



1. A rotor for magnetos including a plurality of separate U-shaped members of magnetic material, and pole pieces each having one end in intimate contact with one of the arms of said U-shaped members.

1,783,345. STEREOTYPE-PLATE-COOLING APPARATUS. OSCAR CHARLES ROESEN, Brooklyn, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Mar. 5, 1927. Serial No. 173,159. 8 Claims. (Cl. 62—1.)



1. In a device of the character described, the combination with a conveyor and tracks for supporting the

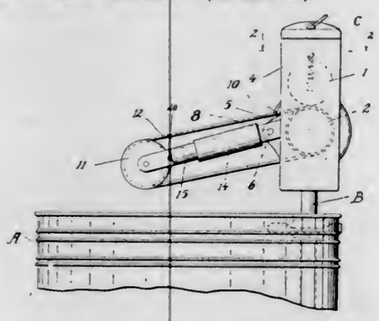
straight edges of stereotype printing plates, the conveyor being arranged to move the plates along the tracks, of means located adjacent to the tracks for subjecting the plates to the action of a cooling medium as they pass along under the influence of the conveyor.

1,783,346. HANDLE FOR TOOLS. JOHN T. SCULLY, New York, N. Y. Filed Dec. 6, 1927. Serial No. 238,120. 3 Claims. (Cl. 7—16.)



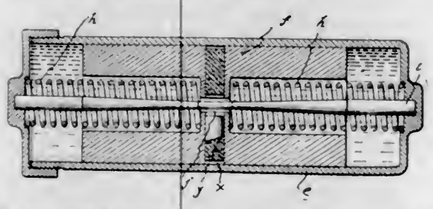
1. A handle for tools including a longitudinal body having a longitudinal bore therein, and, formed in the marginal wall of said bore, at least one longitudinally disposed tool receiving slot having its inner wall disposed at right angles or substantially so to radii of said bore.

1,783,347. FEED APRON FOR WRINGERS. FRED W. SIGSBEY, Willoughby, Ohio. Filed Apr. 3, 1928. Serial No. 266,960. 4 Claims. (Cl. 68—32.)



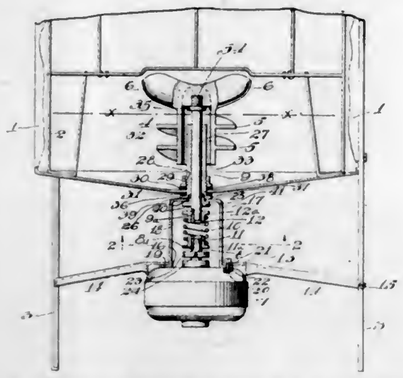
1. Mechanism for use with wringing apparatus comprising a carrier belt, a roller supporting means therefor, and tensioning means associated with said supporting means for said carrier belt and the roller comprising telescopic arms, and expanding means for expanding the same.

1,783,348. SHIMMYING DAMPENER. CECIL HAMELIN TAYLOR, Detroit, Mich. Filed Mar. 27, 1925. Serial No. 18,798. 7 Claims. (Cl. 280—90.)



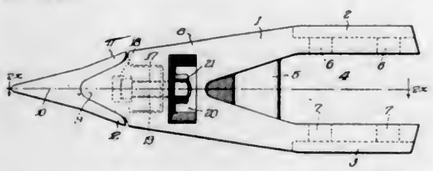
3. An inertia member, comprising a cylinder, a free piston slidable therein, said cylinder and piston provided with a dashpot opening from one side of the piston to the other and the cylinder arranged to contain a fluid, and means for varying the area of the dashpot opening.

1,783,349. DISHWASHING MACHINE. ELIHU D. WATT, La Grange, and GEORGE W. CONOVER, Chicago, Ill., assignors to The Conover Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 20, 1926. Serial No. 136,712. 6 Claims. (Cl. 141—9.)



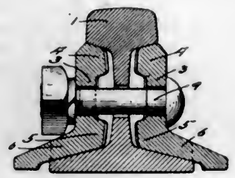
1. A dishwashing machine including a vertical receptacle for dishes elevated from the floor, supporting legs therefor resting upon the floor, a rotary water propelling device disposed within said receptacle, a motor inferiorly and centrally disposed in respect to the receptacle having an upwardly extending shaft for driving said propelling device, a supporting spider for said motor, from the central part of which the motor is suspended and which is provided with outwardly and downwardly extending arms, the outer ends of said arms being attached to the supporting legs of the receptacle, and a rigid one-piece centralizing member for said shaft disposed between said motor and said receptacle and connected to the central portion of said spider, to the central portion of the bottom of said receptacle and to the central portion of the top of said motor and embracing said upwardly extending shaft.

1,783,350. DIPPER TOOTH. JAMES RALPH WATTS, New Castle, Del., assignor to American Manganese Steel Company, Chicago, Ill., a Corporation of Maine. Filed Dec. 17, 1928. Serial No. 326,466. 2 Claims. (Cl. 37—142.)



1. In excavating apparatus, a digging tooth comprising a tooth base having inclined upper and lower faces and vertical side walls said side walls forwardly extending beyond said upper and lower faces to form tapered noses, said base having a rectangular socket opening inwardly from between the side walls, said base also having a transverse pocket opening into said base from one side wall and a bolt receiving opening connecting said socket and said pocket, a tooth point designed to be mounted on said tooth base and including a shank to be received in said socket, diverging jaws rearwardly extending from said point having inclined upper and lower faces to cooperate with the upper and lower faces of said base, said shank having a substantially T-shaped slot opening transversely into the side of said shank, a bolt connecting said shank to said base and adapted to fit into said T-shaped slot and a securing nut for said bolt adapted to be inserted through the lateral pocket of said base and to be threaded to the end of said bolt.

1,783,351. SPLICE BAR OR FISHPLATE. LAWRENCE S. WILBUR, Evanston, Ill. Filed June 24, 1929. Serial No. 373,286. 13 Claims. (Cl. 238—243.)



1. In a rail joint, a splice bar or fish plate having an inwardly curved middle portion, and having straight end portions in alignment with each other, said middle portion being humped or crowned.

1,783,352. SPLICE BAR OR FISHPLATE. LAWRENCE S. WILBUR, Evanston, Ill. Filed June 24, 1929. Serial No. 373,287. 7 Claims. (Cl. 238—243.)



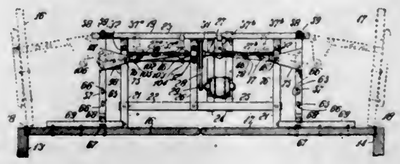
1. A splice bar or fish plate comprising an inwardly curved or bulged middle portion disposed between two straight end portions, said end portions being disposed at an angle to each other, whereby these end portions extend away from the sides of the rails when the splice bar or fish plate is in use on a rail joint.

1,783,353. SPLICE BAR OR FISHPLATE. LAWRENCE S. WILBUR, Evanston, Ill. Filed June 28, 1929. Serial No. 374,369. 6 Claims. (Cl. 238—243.)



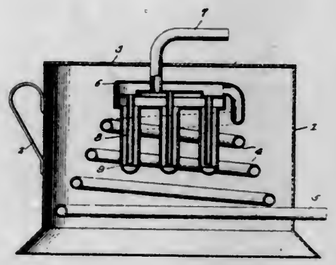
1. A splice bar or fish plate for rail joints, comprising an inwardly bulged or curved middle portion disposed between end portions which are straight and disposed at an angle to each other, said middle portion being humped or crowned, whereby the bar is of greater fishing height at its middle than at the ends thereof, whereby said end portions extend away from the rails.

1,783,354. DOOR-OPERATING MECHANISM. HARRY G. AINSWORTH, Aurora, Ill. Filed July 20, 1928. Serial No. 294,159. 18 Claims. (Cl. 268—63.)



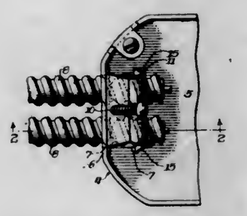
1. In door operating mechanism, the combination with a doorway and a door mounted to swing into and out of said doorway, of a door operator comprising an electric motor, motion transmitting mechanism driven by said motor comprising a lever pivotally mounted to swing about a fixed axis and operative to swing said door to both its open and closed positions, and yieldable means opposing the operation of said motion transmitting mechanism as said door approaches one of its extreme positions.

1,783,355. PORTABLE HEAT-EXCHANGING APPARATUS. JEAN BAPTISTE DOMINIQUE LÉON CHABBARD, Paris, France, assignor to Risler Corporation of America, Kansas City, Mo., a Corporation of Delaware. Filed July 28, 1927, Serial No. 209,117, and in France July 28, 1926. 3 Claims. (Cl. 257—229.)



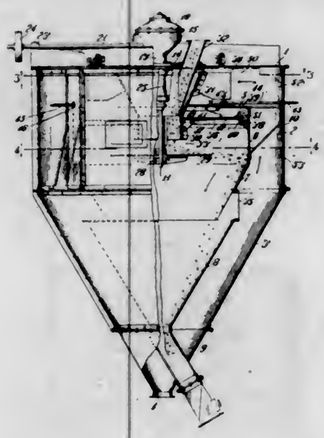
2. Heat exchanging apparatus including a coil, an intake manifold connected with the coil, an outlet manifold having a discharge conduit, primary tubes leading from the intake manifold, secondary tubes housing the primary tubes and communicating with the outlet manifold, and a heat confining case enclosing the coil, the manifolds and said tubes.

1,783,356. CONDUIT CLAMP FOR AN OUTLET BOX. HERBERT RAY COOK, Chicago, Ill., assignor to Jefferson Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 9, 1928. Serial No. 268,405. 7 Claims. (Cl. 247—25.)



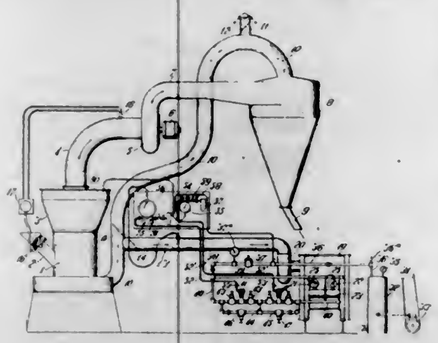
1. The combination with an outlet box having side and bottom walls with knockout holes therein adjacent their point of joining, a headed anchoring screw engaging the intersection of said walls from within said box and positioned so as substantially to bisect the angle between said walls, a clamping member loosely positioned on said screw and shiftable to permit insertion of a conduit into said box through either of said knockout holes, and engaging portions on said member at the opposite edges thereof positioned so that when said anchoring screw is tightened one of said portions will engage such a conduit near its end to clamp it against the adjacent wall while the other of said portions will engage the conduit adjacent the hole through which it extends so as more completely to close said hole and clamp the conduit against the opposite edge of said hole.

1,783,357. MECHANICAL SEPARATOR. WALTER M. COOK, Ludlow, Vt., assignor to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 23, 1929. Serial No. 416,050. 21 Claims. (Cl. 209—144.)



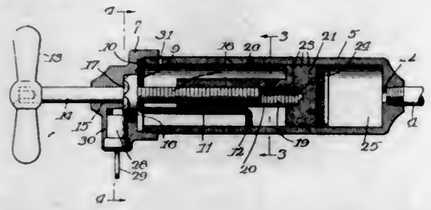
2. In a separator comprising a casing, a rotary distributing member therein, and means for causing an upward air flow in the casing, a rotary deflector positioned above the distributor, and an annular stationary deflector carried by the casing and overlapping the circumferential portion of the rotary deflector.

1,783,358. AUTOMATIC TEMPERATURE CONTROL IN PULVERIZING MILLS. JOE CRITES and WALTER A. KOREN, Evanston, Ill., assignors to the Raymond Brothers Impact Pulverizer Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 11, 1929. Serial No. 331,729. 23 Claims. (Cl. 83—44.)



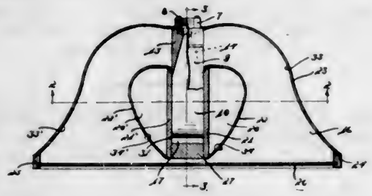
11. In a pulverizing and drying apparatus, a pulverizing mill including means for feeding thereinto material to be pulverized, means for circulating heated air through the mill including a conduit for withdrawing air and pulverized material suspended therein from the mill, a separator for removing the pulverized material, and a return conduit for returning a portion of the air to the mill, a supply conduit leading into the return conduit, means including a heater for delivering preheated air to the supply conduit, and means responsive to the temperature in the mill for controlling the heater.

1,783,359. SLACK-TAKE-UP DEVICE. RAY H. FLOYD, Chicago, Ill., assignor to Unique Spark Plug Cleaner Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 14, 1927. Serial No. 168,174. 4 Claims. (Cl. 60.5—4.6.)



1. In a hydraulic controller, the combination of a cylinder, a cylindrical plunger in said cylinder, a rotary handle, means forming a fixed bearing holding said handle against axial movement, the handle and cylinder being axially aligned, screw threaded adjusting connection between said handle and said plunger, operative to cause back and forth movement of said plunger by the rotation of said handle, and means separate from the cylinder and enclosed therein to hold said plunger against rotation, said bearing and cylinder being rigidly but separably connected, and means to mount the bearing in fixed position to support the cylinder in fixed position.

1,783,360. SOUND AMPLIFIER. CHARLES C. FLYNN, Detroit, Mich. Filed Mar. 19, 1928. Serial No. 262,616. 4 Claims. (Cl. 181—27.)



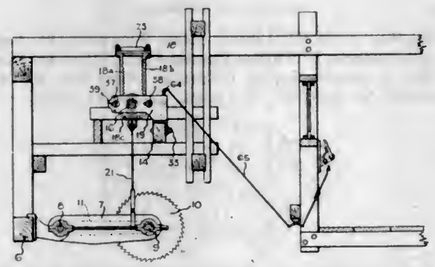
1. A device of the class described, comprising: a housing; a pair of passage forming oppositely disposed walls spaced apart; a pair of oppositely disposed wedges co-operating with said walls and enclosing a passage, the inner surfaces of said wedges being inclined to their longitudinal axis, the inner surfaces of said wall forming members throughout the major portion of said wedges being parallel and throughout the rest of their length being flared outwardly from each other on harmonic curves.

1,783,361. MUSIC-INSTRUCTION DEVICE. GEORGE HERBERT DWIGHT GIBSON, Ottawa, Ontario, Canada. Filed May 12, 1927, Serial No. 190,914, and in Canada Apr. 4, 1927. 4 Claims. (Cl. 84—473.)



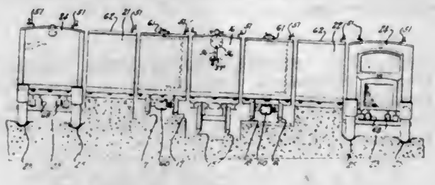
2. A music instruction device of the character described, comprising a member bearing musical staves and perforations on the lines and spaces of each said staff disposed in two inclined but parallel rows, and a slidable element bearing musical indicia adapted to be exposed through the said perforations, characterized in that on one or more staves for "sharp" keys the perforations are arranged in a regularly ascending but staggered progression on the lines and spaces corresponding to the notes F C G D A E B, while on one or more staves for "flat" keys the perforations are arranged in a regularly descending but staggered progresson on the lines and spaces corresponding to the notes: B E A D G C F.

1,783,362. TRIM-SAW LIFT UNIT. JACK L. GOODSPEED, Seattle, Wash., assignor to Prescott Iron Works, Seattle, Wash. Filed Oct. 29, 1928. Serial No. 315,812. 7 Claims. (Cl. 143—41.)



1. In a trim saw lift unit, a vertically disposed saw suspending yoke comprising vertical, spaced racks, a driven gear disposed within the yoke, a releasable means normally supporting the yoke in raised position, means for actuating said supporting means to release the yoke for downward travel and permit one of said racks to engage the gear for a controlled lowering of the saw, means for limiting downward travel of the yoke after the gear has left the rack, manually controlled means for shifting the yoke when in lowered position to engage the other of said racks with the gear for raising the saw.

1,783,363. SYSTEM FOR HANDLING FREIGHT AND APPARATUS THEREFOR. ARMIN R. GROB, Milwaukee, Wis. Filed Apr. 16, 1928. Serial No. 270,408. 18 Claims. (Cl. 105—366.)



1. In an apparatus for handling freight, the combination of a laterally inclined foundation, a vehicle positioned on said foundation, receiving means positioned on the foundation adjacent the vehicle, a movable container, and means on said vehicle and receiving means for releasably holding the container, said container, when released, being movable by the force of gravity from the vehicle to the receiving means.

2. In an apparatus for handling freight, the combination of a laterally inclined foundation, a vehicle positioned on said foundation, container supporting means positioned on said foundation adjacent the vehicle, a movable container, and means on the container supporting means and on the vehicle for releasably holding said container, said container, when released, being movable by the force of gravity from the container supporting means to the vehicle.

1,783,364. COATING COMPOSITION. ROY H. KIENLE and LESTER V. ADAMS, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed Jan. 29, 1927, Serial No. 164,661. Renewed Apr. 9, 1930. 4 Claims. (Cl. 134—26.)

1. The process of treating an alkyd resin which consists in dissolving said resin in an organic liquid solvent, bringing the resulting solution into contact with an alkali in solid, granular form, removing the products of the resulting reaction together with uncombined alkali and suspending basic mineral matter in the neutral solution thus obtained.

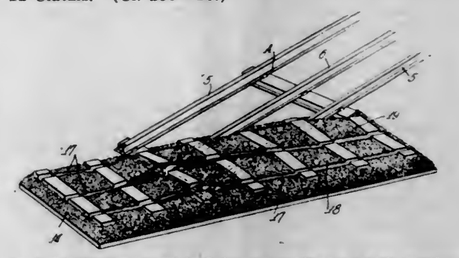
1,783,365. DISPERSION AND METHOD OF MAKING THE SAME. RICHARD W. LEWIS, Monclair, N. J. Filed Feb. 28, 1927. Serial No. 171,726. 5 Claims. (Cl. 134—1.)

1. A dispersion of bitumen in water in which the dispersing agent is Portland cement.

1,783,366. DISPERSION AND METHOD OF MAKING THE SAME. RICHARD W. LEWIS, Montclair, N. J. Filed Apr. 12, 1928. Serial No. 269,612. 10 Claims. (Cl. 134—1.)

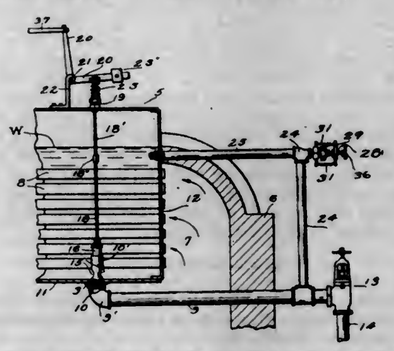
1. The method of dispersing bitumen in water, comprising mixing bitumen, aluminum hydroxide paste, clay and the water.

1,783,367. ROADBED CONSTRUCTION FOR TOY RAILWAYS. CLARENCE R. PETERSON, Jr., Pelham Manor, N. Y. Filed Jan. 30, 1930. Serial No. 424,532. 12 Claims. (Cl. 238—10.)



1. An imitation road-bed for toy railway track sections comprising two members adapted to receive a toy railway track section therebetween, one of said members having slits through which the rails of a track section may protrude, the other member forming a cushion for said track section.

1,783,368. SAFETY BLOW-OFF FOR BOILERS. LOUIS D. ROWLAND, Seattle, Wash. Filed Aug. 10, 1926. Serial No. 128,480. 1 Claim. (Cl. 122—504.)



In combination with a boiler shell, an external circulating pipe connected at its upper and lower ends to the in-

terior of said shell below the normal water level therein, and normally in free communication therewith and subject to pressures therein, a valve within the boiler controlling communication with the upper end of the circulating pipe, and normally open, a second valve within the boiler controlling communication with the lower end of the circulating pipe, and a valve rod connected to said second valve and extending through the boiler shell, the upper and lower surfaces of said second valve being normally exposed to and acted upon by forces originating in the downward and upward components, respectively, of the pressure in the boiler, whereby said second valve is normally held raised by an upwardly acting force which is the resultant of the said downwardly acting force on the area of the upper surface of the valve, less the area of the valve rod, and the said upwardly acting force on the whole area of the lower surface of the valve, and said second valve being otherwise unsupported.

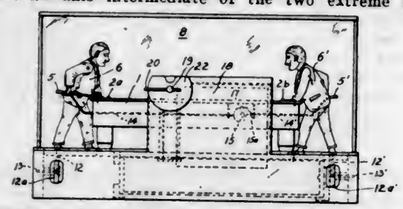
1,783,369. CONDENSER. PHILIP B. SADTLER, Chicago, Ill., assignor to Swenson Evaporator Company, Harvey, Ill., a Corporation of Illinois. Filed Oct. 1, 1928. Serial No. 309,393. 8 Claims. (Cl. 257—231.)



1. A condenser unit for a still comprising, a tubular body for mounting vertically upon the still evaporator and having a bottom inlet for communication with the vapor chamber of the evaporator, a vapor stack rising from the bottom inlet to a point in the upper region of the tubular body, superposed cooling medium distributing and discharge drums mounted on the top of the body and two sets of cooling medium tubes supported by the drums in the space in the body about the vapor stack, the tubes of one set communicating with the chamber of one of the drums and the tubes of the other set surrounding those of the first set and communcating with the chamber of the other drum, the inner tubes extending almost to the bottom of and there opening into the outer tubes and the outer tubes being closed at their lower ends.

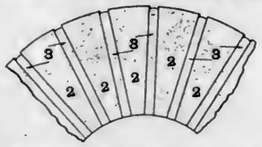
1,783,370. GAME APPARATUS. VERNON D. SALTER, Oakland, Calif. Filed Apr. 2, 1928. Serial No. 266,550. 4 Claims. (Cl. 273—85.)

1. In a game apparatus, a table having at least three holes therein through which balls may be passed, a tiltable receptacle underlying all of said holes and pivoted about an axis intermediate of the two extreme holes,



whereby a ball dropping through a hole may be elevated through either of said extreme holes to the surface of said table.

1,783,371. COMMUTATOR. HANS WEICHSEL, St. Louis, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a Corporation of Delaware. Filed Oct. 9, 1929. Serial No. 398,500. 3 Claims. (Cl. 171—32.)

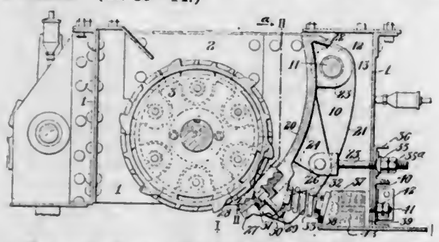


1. A commutator for dynamo electric machines comprising conducting segments separated adjacent their brush contacting ends by insulating material the entire thickness of which is subject, during commutator wear in operation, to such progressive disintegration under the influence of the electrical effects of the interaction of the commutator and brushes as will cause the outer limit of the undisintegrated portion to be lowered upon the wearing down of the brush contacting surface of the commutator.

1,783,372. DETONATOR AND PROCESS OF MAKING. CLIFFORD A. WOODBURY, Media, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed May 3, 1928. Serial No. 274,964. 7 Claims. (Cl. 86—20.)

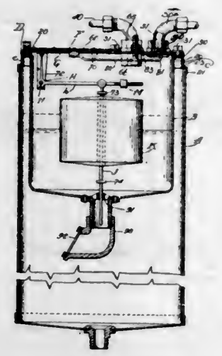
1. A process of loading detonator tubes which comprises charging the tubes with a mixture of at least two explosives, at least one of which melts at a temperature below 100° C., subjecting the charge to sufficient heat to melt the low melting constituent, and then solidifying the charge by cooling.

1,783,373. SINGLE-ROLL CRUSHER. GEORGE W. BORTON, Philadelphia, Pa., assignor to Pennsylvania Crusher Company, New York, N. Y., a Corporation of New York. Filed May 9, 1924. Serial No. 711,949. 4 Claims. (Cl. 83—14.)



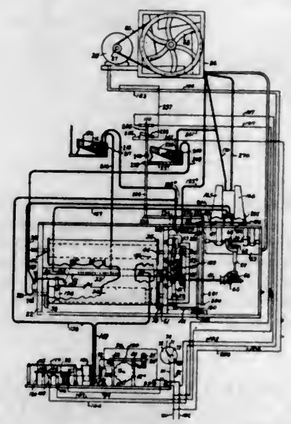
1. The combination, in a single roll crusher having an open hopper and an unobstructed delivery space and a toothed crushing-roll rotatably mounted in the throat of the hopper, of a breaker plate cooperating with said roll and disposed in relatively fixed position with respect thereto and out of contact therewith; said breaker plate comprising a plurality of interchangeable sections, a common support for each of said breaker plate sections, individually adjustable and yieldable supports for said breaker plate sections, common supporting means for said individually yielding supports, and tension means for each breaker plate section disposed above said yieldable supports.

1,783,374. FUEL-FEEDING DEVICE. CHARLES S. BURTON, Oak Park, Ill. Filed Oct. 20, 1928. Serial No. 313,708. 13 Claims. (Cl. 103—236.)



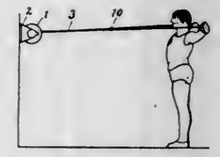
1. In a structure for the purpose indicated in combination with a chamber arranged to be connected with a source of suction for producing partial vacuum in said chamber and having a liquid supply connection and an atmosphere inlet port, an inwardly opening valve which controls the atmosphere inlet port arranged also for sliding on its seat for opening and closing, and having associated with it a spring stressing it on its seat adapted to yield to permit the valve to be eased on its seat by the suction for venting the vacuum in the chamber upon the vacuum passing a predetermined degree, a float in the chamber and means positioned for being actuated by the float at a predetermined high level of the liquid in the chamber, and operating connections from said means for giving the valve sliding opening movement.

1,783,375. PROGRAM DEVICE FOR PLAYER MUSICAL INSTRUMENTS AND PROGRAM STRIP THEREFOR. WILLARD J. BUTLER, Cincinnati, Ohio. Filed Nov. 12, 1928. Serial No. 318,923. 21 Claims. (Cl. 84—115.)



1. In combination, a musical instrument comprising pneumatics for note production, a barometer, and a program roll complemental to said pneumatics, said program roll provided with note perforations for producing music complemental to time by said horometer.

1,783,376. EXERCISING MACHINE. CHARLES L. DUFF, Columbus, Ohio. Filed Feb. 2, 1929. Serial No. 336,936. 4 Claims. (Cl. 272—79.)

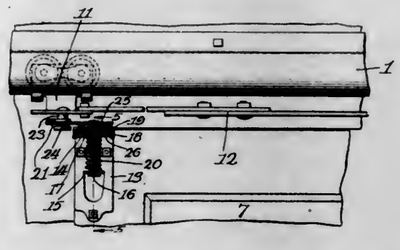


1. An exercising machine of the class described having in combination a supporting frame, a rotatable spindle having its ends journalled in bearings formed in said frame, a relatively heavy member connected to said spindle adjacent each end thereof, a flexible member, and yieldable means connecting the flexible member externally to the spindle, whereby to eliminate the shock produced by the sudden rewinding of the flexible member on the spindle.

1,783,377. PROCESS OF MAKING DISINFECTANT COMPOSITIONS. MAX ENGELMANN, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Feb. 27, 1928. Serial No. 257,544. 16 Claims. (Cl. 167—19.)

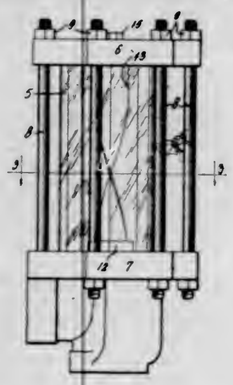
4. A process of making dust-like disinfectant compositions containing mercury, which comprises effecting a reaction by intimate contact between a mercuric salt and an alkyl derivative of tetra valent lead, in the absence of a liquid diluent.

1,783,378. GARAGE-DOOR CONSTRUCTION. WILLIAM D. FERRIS, Sterling, Ill., assignor to Frantz Manufacturing Co., Sterling, Ill., a Corporation of Illinois. Filed Sept. 27, 1929. Serial No. 395,503. 4 Claims. (Cl. 20—20.)



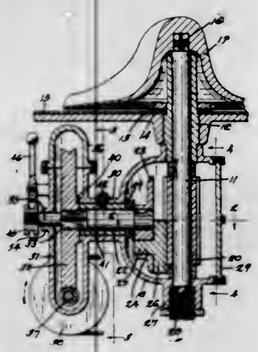
1. In sliding and swinging door construction, the combination of a plurality of door sections hinged together to swing relatively about vertical axes, an overhead track comprising two straight portions connected by a rounded corner portion, hangers supporting the door sections on said track, an additional hanger allotted to an end section of the door structure, and mechanism on this end door section for automatically engaging and disengaging said addition hanger, when this end section is opened or closed, providing a support for said end section while the door structure as a whole is being moved around into open position, or back into closed position, preventing said end section from swinging around or getting in the way or striking the side wall of the building.

1,783,379. LIQUID-DISPENSING APPARATUS. HERMAN ADOLPH JACOB, Holyoke, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a Corporation of Massachusetts. Filed Jan. 16, 1930. Serial No. 421,300. 3 Claims. (Cl. 116—117.)



1. In a flow indicator, a casing comprising a tubular member of transparent material held between two end caps, one of which has inlet and outlet passages for the liquid and the other of which is normally entirely closed, one of said passages having a part which opens into the interior of said casing and has its axis disposed substantially parallel with that of said member, and an indicator rotatably supported within said casing and visible through the transparent member thereof, said indicator having a portion extending into said part of the last named passage and so formed as to be rotated by the liquid passing therethrough.

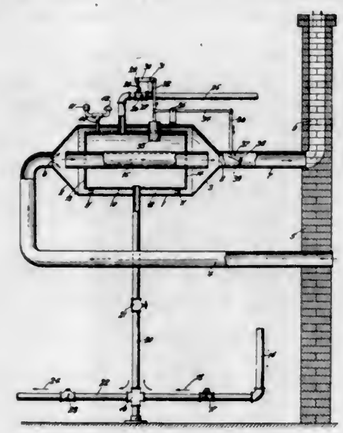
1,783,380. MECHANICAL MOVEMENT. JAMES B. KIRBY, West Richfield, Ohio. Filed Mar. 31, 1928. Serial No. 266,192. 11 Claims. (Cl. 74—14.)



1. In a reversing mechanism, a driven shaft, a driving shaft perpendicular thereto, an elongated pinion carried by said driven shaft and extending past the end of said driving shaft, a crank carried by the end of said driving shaft, and a rack pivoted to said crank intermediate its length and slidable lengthwise of said pinion while meshing therewith.

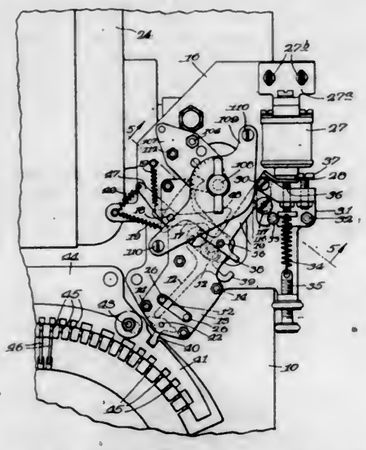
1,783,381. BOILER RETURN AND VACUUM TRAP. STANLEY C. KNEFEL, St. Louis, Mo. Filed Mar. 3, 1930. Serial No. 432,628. 14 Claims. (Cl. 236—56.)

1. A device of the character described, comprising a condenser, a vacuum trap supported in the condenser, means for admitting water into the trap, a pipe for admitting steam into the trap, means for causing a circulation of air through the condenser and about the trap,



a valve for opening and closing said pipe, and automatic means for opening said valve to admit steam to the trap when the trap becomes filled with water.

1,783,382. ELECTRIC SELECTOR MECHANISM. HOWARD L. KRUM, Chicago, Ill., assignor to Teletype Corporation, Chicago, Ill., a Corporation of Delaware. Filed July 16, 1926, Serial No. 122,808. Renewed June 20, 1929. 22 Claims. (Cl. 178—27.)

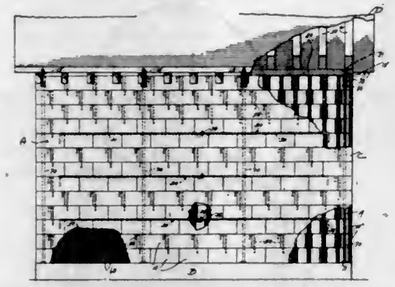


1. In an electric selecting mechanism, a set of selectors adapted to be conditioned in different combinations, a member common to all of said selectors and electro-magnetically vibrated in response to received signals to control the setting of the selectors, and intermittently acting locking means for holding said member against vibratory movement at definitely spaced intervals during the setting cycle.

1,783,383. BUILDING CONSTRUCTION. JAMES V. MONTRIEF, Bridgeport, Tex. Filed June 19, 1928. Serial No. 286,556. 15 Claims. (Cl. 72—42.)

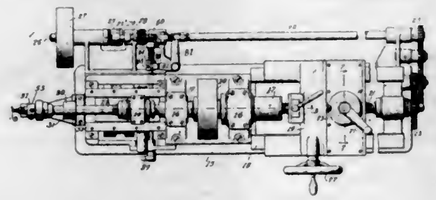
3. In a building construction the combination of a plurality of superposed building blocks defining a wall,

certain of said building blocks at the ends of the wall having vertical openings therein, and a tie rod construction for horizontally tieing and reinforcing the blocks in the wall comprising a pair of relatively movable sections



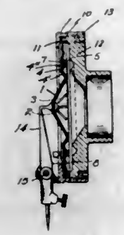
having the remote ends thereof provided with downturned anchors projecting into the openings of the end blocks of the wall, said rod sections at their adjacent ends having means to clamp the same in a definitely adjusted relation.

1,783,384. TUBE-TAPERING APPARATUS. FRIEDERICH MÜLLER, Elizabeth, N. J. Filed Nov. 20, 1926, Serial No. 149,664. Renewed Feb. 8, 1930. 27 Claims. (Cl. 80—12.)



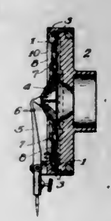
1. Apparatus for varying the diameter of a tube, comprising, in combination, a draw-head adapted to grip the tube, a die having a variable orifice, means for moving the draw-head relatively to the die to draw the tube through the die, said means including replaceable elements for adjusting the rate of movement of the draw-head, a cam, and means controlled by the cam for varying the orifice in timed relation to the movement of the draw-head.

1,783,385. SOUND-REPRODUCING DEVICE. MARTIN NYSTROM, Chicago, Ill., assignor, by mesne assignments, to United Research Corporation, Long Island City, N. Y., a Corporation of Delaware. Filed Apr. 12, 1926. Serial No. 101,439. 13 Claims. (Cl. 181—32.)



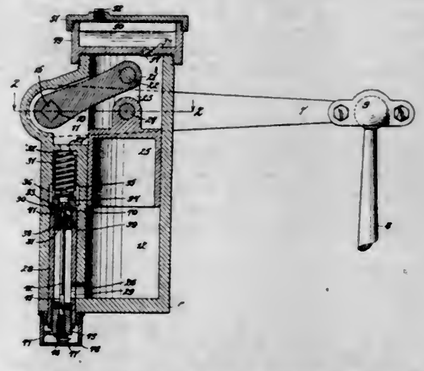
1. A diaphragm comprising an annular portion having an inner edge and approximately .002" in thickness, said annular portion being deformed to facilitate flexure thereof, and a central portion approximately .004" in thickness, deformed to prevent flexure thereof, said central portion having jaws gripping the inner edge of the other portion therebetween, said jaws being in facing relation so that a plane perpendicular to the face of the diaphragm and within the periphery thereof will run through both jaws and the portion gripped therebetween, said portions being composed of a light metallic substance substantially as light in weight as aluminum.

1,783,386. METHOD OF MAKING DIAPHRAGMS. MARTIN NYSTROM, Chicago, Ill., assignor, by mesne assignments, to United Research Corporation, Long Island City, N. Y., a Corporation of Delaware. Filed July 2, 1926, Serial No. 120,161. Renewed Mar. 12, 1930. 9 Claims. (Cl. 29—169.5.)



1. The process of making an acoustic diaphragm which consists in drawing the outer portion of an extremely thin metallic blank to reduce its thickness and deforming said outer portion to increase its flexibility.

1,783,387. SHOCK ABSORBER. VINCENT PATRICOLO, Buffalo, N. Y. Filed Apr. 8, 1929. Serial No. 353,592. 12 Claims. (Cl. 188—88.)

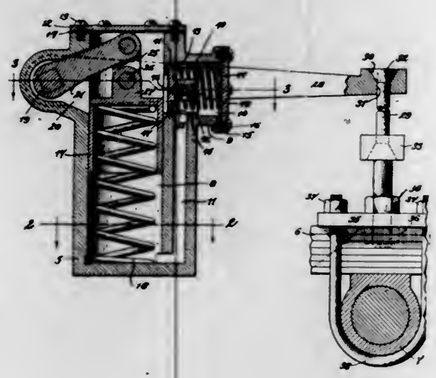


1. A hydraulic shock absorber, including a housing having a cylinder and a by-pass between the ends of said cylinder, a piston in said cylinder, means for reciprocating said piston through motion derived from the vehicle spring, said by-pass being formed to provide a seat, a movable valve member arranged in said by-pass and movable by liquid pressure toward and from said seat, said valve member being provided with a passage extending therethrough, valve means arranged in said passage, a stem for regulating said valve-means and projecting outwardly from said valve member, and means for adjustably limiting the movement of said stem to limit the movement of said valve member away from said seat.

1,783,388. SHOCK ABSORBER. VINCENT PATRICOLO, Buffalo, N. Y. Filed Mar. 2, 1928. Serial No. 258,570. 6 Claims. (Cl. 267—8.)

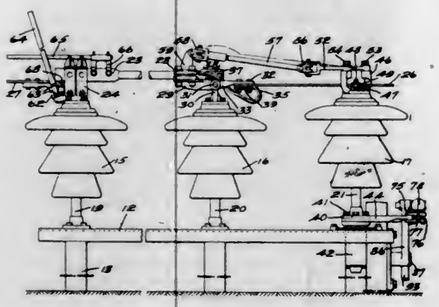
5. A hydraulic shock absorber including an enclosed housing having a main cylinder, a secondary cylinder

extending outwardly from the upper end of said main cylinder, and a by-pass communicating with the lower end of said main cylinder and said secondary cylinder, a piston in said main cylinder, means for reciprocating said piston through motion derived from the vehicle spring, a plunger in said secondary cylinder, a spring yieldingly holding said plunger in its inward position, said plunger comprising a cylindrical wall, a head at the inner end of said wall and an internally threaded stem



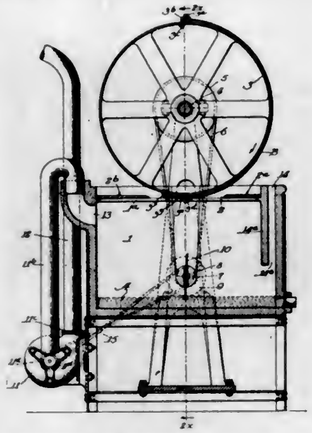
on said head, said stem being provided with a port between the interior of said plunger and said main cylinder, and said cylindrical wall being provided with a port registering with said by-pass in the inward position of said plunger, a screw plug in said stem and adjustably controlling the effective size of said first named port, said plunger being movable outwardly by a corresponding fluid pressure to permit a direct flow of fluid from said main cylinder through said by-pass.

1,783,389. ELECTRICAL SWITCH. JAMES C. REA, San Francisco, Calif., assignor to Pacific Electric Manufacturing Corporation, San Francisco, Calif., a Corporation of California. Filed Feb. 19, 1930. Serial No. 429,623. 6 Claims. (Cl. 200—48.)



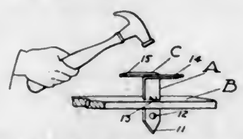
1. In a switching apparatus, a switch provided with a blade adapted to be rotated in an arc, a bus bar electrically connected with said blade, a rotatable yoke embracing said bus bar between its arms, means for rotating said yoke and means connecting said yoke and said blade whereby they are simultaneously rotated.

1,783,390. ETCHING MACHINE. ROBERT R. ROBERTSON, Evanston, Ill. Filed Oct. 8, 1929. Serial No. 398,117. 10 Claims. (Cl. 41—9.)



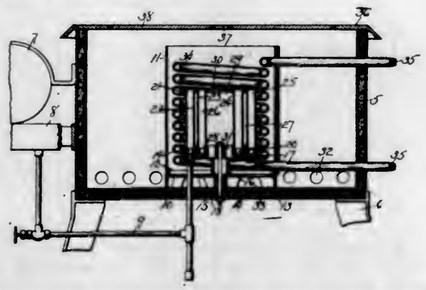
1. In apparatus of substantially the character described, means defining an exposure opening, means for delivering a fluid at said opening, and a plate carriage mounted for movement and adapted to present portions of a plate successively to said exposure opening.

1,783,391. INSERT. PAUL C. SCHORR and LOUIS H. SYRING, St. Paul, Minn., assignors to The Commonwealth Electric Company, St. Paul, Minn., a Corporation of Delaware. Filed Oct. 30, 1926. Serial No. 145,266. 8 Claims. (Cl. 72—101.)



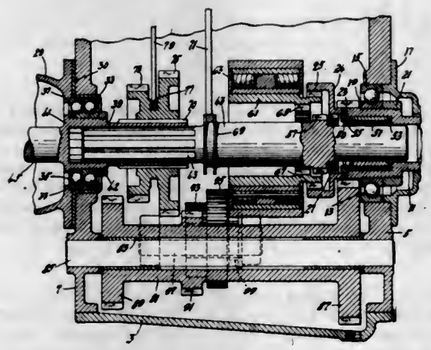
7. An insert adapted to be used in concrete construction including, a body portion, a piercing end formed on one end thereof, a shoulder remote from said end adapted to limit the driving of the piercing end through a form, and a driving head adapted to form anchoring means embedded in the concrete when the form is removed.

1,783,392. OIL STOVE. RALLSTON M. SHERMAN, Glastonbury, Conn., assignor to The Silent Glow Oil Burner Corporation, Hartford, Conn., a Corporation of Connecticut. Filed June 30, 1928. Serial No. 289,359. 6 Claims. (Cl. 126—53.)



1. A heater comprising a jacket with a cooking top on which cooking utensils are adapted to be placed, a shell within the jacket, a burner within the shell comprising annular flue walls, means for supplying fuel to the burner, a coil surrounding said burner and disposed outwardly of the flue walls and within the shell and having means for supply of liquid to and discharge of liquid from said coil, said top having an opening overlying said shell and burner, and means for closing said opening.

1,783,393. OVERSPEED TRANSMISSION. CLAUDE H. STERLING, Detroit, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed Dec. 24, 1926. Serial No. 156,871. 2 Claims. (Cl. 74—58.)



1. Aligned driving and driven members, the latter composed of telescopic parts and a countershaft, gearing between the countershaft and the outmost of said telescopic parts, the inner part of the driven member being axially movable into clutched engagement with the driving shaft, a gear ring eccentrically surrounding the common axis of said aligned members, drive mechanism between said driving shaft and eccentric gear ring and between said driving shaft and said countershaft, gear elements on said eccentric ring and the inner driven member to be engaged upon a movement of the axially movable member to a predetermined position.

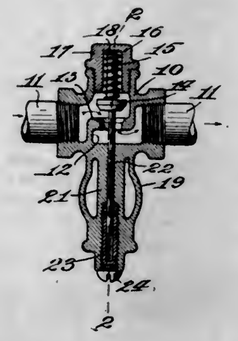
1,783,394. STEEL-PLATE SPRING SHACKLE. SAMUEL A. STRANAHAN, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Sept. 4, 1926. Serial No. 133,675. 7 Claims. (Cl. 267—30.)



1. In a road vehicle, the combination with a frame and a spring, of a connection for suspending the frame upon the spring including, a flat metallic spring blade, clamp plates rigidly connecting the ends of the blade to the frame and spring respectively, and angular lips on the blade bearing upon frame and spring to supplement the clamping action of the plates and insure a positive connection.

1,783,395. AUTOMATIC GAS-CONTROL VALVE. ALSTON D. TAYLOR, Los Angeles, Calif. Filed July 25, 1928. Serial No. 295,195. 7 Claims. (Cl. 137—162.)

1. The combination with a valve housing having separate gas and water passageways, and a valve located in that portion of the housing having the gas passageway, of a tubular member extending through said water passageway, a two-part telescopic stem removably seated in said tubular member, which stem when positioned in said tubular member in extended position, holds the gas flow



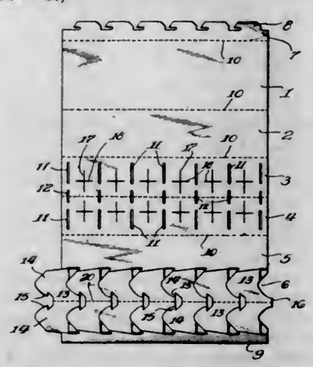
control valve in open position and the two parts of said stem being secured in extended position by readily fusible metal.

1,783,396. MINERAL ADSORBENT AND PROCESS OF MANUFACTURING SAME. JOHN T. TRAVERS, Columbus, CHARLES H. LEWIS, Harpster, and OLIVER M. URBAIN, Columbus, Ohio, assignors to The Ohio Sanitary Engineering Corporation, Columbus, Ohio, a Corporation of Ohio. Filed Oct. 20, 1928. Serial No. 313,928. 28 Claims. (Cl. 252—2.)

1. A process for producing an improved adsorbent, comprising mixing a salt of a condensed ortho-silicic acid and a trivalent metal with a carbonaceous material, adding to the mixture a solution of a silicate of an alkali metal, incorporating in the mass a dilute solution of a strong acid, drying the resultant mass and thereafter subjecting the mass to ignition to drive off the volatile constituents of the carbonaceous content thereof and free the same from combined moisture.

5. A method for improving the adsorptive qualities of a salt of a condensed ortho-silicic acid and a trivalent metal, comprising treating the same with a solution of a silicate of an alkali metal and a dilute solution of a strong acid and thereafter drying the resultant mass and subjecting the same to ignition.

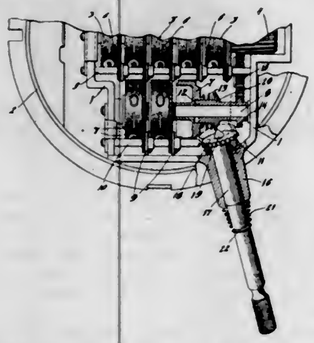
1,783,397. CUSHIONED CARTON. FELIX TROYK, Chicago, Ill., assignor to Self-Locking Carton Company, a Corporation of Illinois. Filed Jan. 28, 1929, Serial No. 335,547, and in Canada Nov. 15, 1928. 1 Claim. (Cl. 229—29.)



A carton having a continuous bottom wall built into the form of an inverted V whose ridge or apex lies a con-

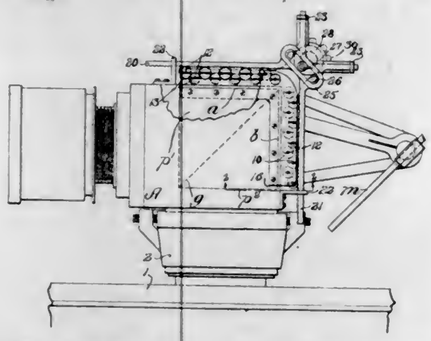
siderable distance below the top of the carton, and forked partitions secured at their upper ends to the adjacent side walls of the carton, said bottom wall having transverse slots in the slopes and through the ridge registering with the said partitions when the latter are swung down, the prongs of said partitions having hook elements extending through said slots in the slopes when the partitions are swung down, and the parts of the partitions connecting the prongs entering the slots in the ridge when the partitions are swung down.

1,783,398. RESET MECHANISM FOR ODOMETERS. JOSEPH ZUBATY, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Sept. 16, 1927. Serial No. 219,973. 2 Claims. (Cl. 235—96.)



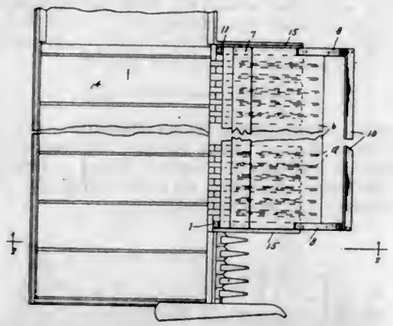
1. In odometer mechanism of the class described, a bearing for a resetting member; a rotatable resetting member slidable in said bearing, and the outer part of which member is of substantially uniform diameter beyond the outer extremity of said bearing and to its outer end; a coil spring surrounding said resetting member and acting between said bearing and an abutment upon said member to hold said member outward and in a normally inoperative position; and a resetting gear carried by the inner end of said resetting member.

1,783,399. ART OF AND APPARATUS FOR MOTION-PICTURE PHOTOGRAPHY. ADELBERT AMES, Jr., Tewksbury, Mass. Filed Oct. 25, 1921. Serial No. 510,286. 16 Claims. (Cl. 88—166.)



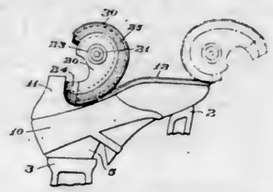
1. The art of making motion picture photographs comprising forming images from different points of view, exposing successively different parts of a sensitive surface during separate exposures following each other at intervals within the time of the persistence of vision to each of these images severally, and thereafter exposing other successively different parts of the sensitive surface to the images simultaneously.

1,783,400. GRAIN SAVER. VIRGIL JEWELL BOCKWITZ, Humboldt, Minn. Filed Nov. 19, 1929. Serial No. 408,840. 6 Claims. (Cl. 56—364.)



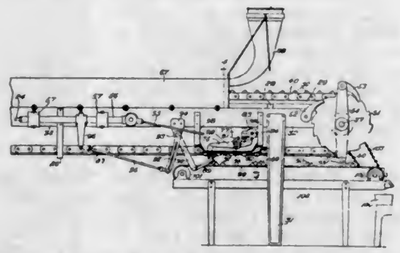
1. An attachment of the class described comprising a pair of spaced parallel coextensive side plates, a hood sheet across the side plates, the forward edges of the side plates being curved forwardly and downwardly and the sheet conforming thereto, straps secured to said sheet above the curved edges and extending below the bottom edges of the plate, and a cross bar on the extremities of the straps.

1,783,401. METHOD OF AND APPARATUS FOR FINISHING THE BOTTOMS OF BOOTS AND SHOES. CHARLES P. BROOKS, Jr., and SAMUEL KOVNER, Brockton, Mass., assignors to Standard Modern Printing Co., Inc., Brockton, Mass., a Corporation of Massachusetts. Filed Sept. 6, 1929. Serial No. 390,730. 2 Claims. (Cl. 101—35.)



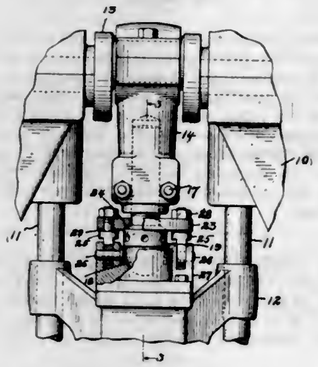
1. The improved method of finishing boot and shoe bottoms which consists in providing a finishing roll of contour to facilitate contact with the shank and sole portions of a shoe, applying a desired design to be printed on said roll, and inking said roll and thereupon effecting a rolling action between the inked surface and the shoe bottom.

1,783,402. CHOCOLATE-MOLDING MACHINE. EDWARD E. CAHOON, Racine, Wis., assignor to Racine Confectioners' Machinery Company, Racine, Wis., a Corporation of Wisconsin. Filed Apr. 22, 1924. Serial No. 708,278. 12 Claims. (Cl. 107—8.)



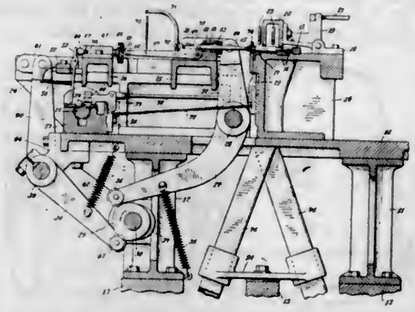
1. In a machine of the character described, in combination, means for depositing plastic material in predetermined quantities, an endless conveyor including upper and lower reaches, and a series of separable individual members for receiving said material as they are successively brought beneath said depositor on the upper reach of said conveyor, means for moving said conveyor intermittently between successive depositing operations, means for warming said members prior to the deposit of material thereon, a cooling or drying chamber through which said upper reach of the conveyor passes beyond said depositor, and means located beyond said chamber for freeing said members of the cooled or dried deposits.

1,783,403. CONNECTION. ZENAS P. CANDEE, Waterbury, Conn., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a Corporation of Connecticut. Filed Jan. 24, 1929. Serial No. 334,844. 3 Claims. (Cl. 287—87.)



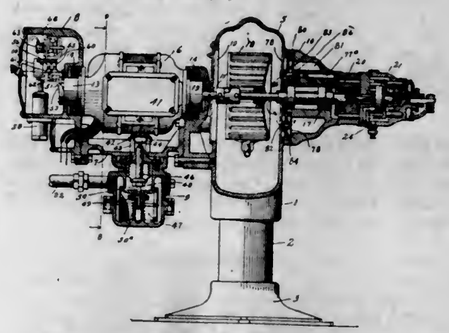
2. In a power transmitting device, an element having a rounded socket, a connecting member having a rounded end movably engaged in said socket, and having a rounded shoulder spaced from said rounded end, means to hold the rounded end in said socket, engaged about said member and having a correspondingly rounded seat engaged with said rounded shoulder whereby to allow the member and holding means to automatically adjust themselves with varying angular relation of the holding means relative to the longitudinal axis of the member, and means to pivotally connect the holding means to the element.

1,783,404. GAUGING MECHANISM. ZENAS P CANDEE, Waterbury, Conn., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a Corporation of Connecticut. Filed Apr. 6, 1928. Serial No. 267,989. 17 Claims. (Cl. 209—88.)



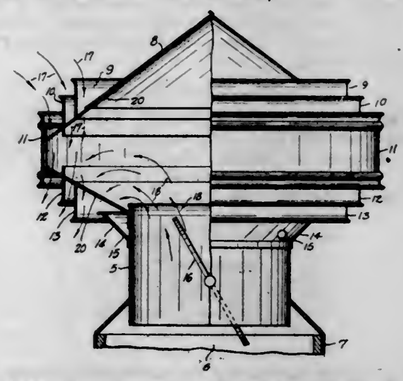
1. Means for gauging an article, comprising an inspector mechanism, the position of which is determined by the article; and a second inspector mechanism having a substantially right line movement toward and away from the first inspector mechanism, the extent of such movement being determined by the position of the first mentioned inspector mechanism if the latter is not in a predetermined position or allowable variations therefrom.

1,783,405. LIQUID-FUEL-BURNING DEVICE FOR DOMESTIC PURPOSES. PHILIP A. CELANDER, Bloomington, Ill., assignor to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill., a Corporation of Illinois. Filed July 13, 1929. Serial No. 378,053. 10 Claims. (Cl. 158—28.)



1. In an electrically operated liquid fuel burning device, a motor therefor having a rotor mounted in a casing upon trunnions, a normally closed fuel valve therefor, and means actuated by rotation of the casing to open said fuel valve caused by energization of the motor.

1,783,406. VENTILATOR. STEPHEN E. CIBULAS, Bridgeport, Conn. Filed Jan. 24, 1928. Serial No. 249,036. 2 Claims. (Cl. 98—84.)



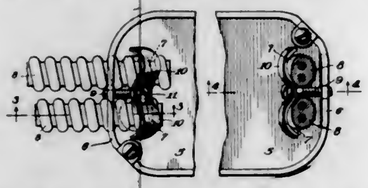
1. A ventilator comprising an upright conduit, a hood over the top of the conduit and spaced therefrom, a plurality of spaced upright ring vanes arranged with the inner one enclosing and extending above and below the upper end of the conduit and spaced therefrom and the next outer vane enclosing and extending above and below the upper edge of the next inner vane, a plurality of similar spaced upright ring vanes arranged with the inner one enclosing and extending above and below the lower edge of the hood and spaced therefrom and the next outer vane enclosing and extending above and below the lower edge of the next inner vane, the upper vanes being flared outwardly at their upper ends and the lower vanes being flared outwardly at their lower ends, and an upright outer ring baffle spaced from and enclosing the adjacent edges of the outer vanes.

1,783,407. MACHINE FOR CLEANING JOURNAL-BOX WASTE. IRVIN M. CONWAY and THOMAS M. LAWSON, Indianapolis, Ind., assignors to Journal-Box Servicing Corporation, Indianapolis, Ind., a Corporation of Indiana. Filed Apr. 28, 1927. Serial No. 187,318. 16 Claims. (Cl. 141—5.)



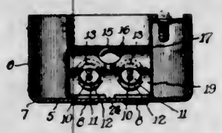
1. In a machine for cleaning waste over a floor in the presence of oil, a waste stirring and picking device having a plurality of pairs of picker rods, means for rocking the rods whereby one of the rods in each pair will swing past the other rod in that pair, and means for elevating and lowering said picker rods over the floor in timed relation to the rocking of said rods.

1,783,408. UNIVERSAL CLAMP FOR OUTLET BOXES. HERBERT RAY COOK, Chicago, Ill., assignor to Jefferson Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 11, 1926. Serial No. 134,799. 10 Claims. (Cl. 247—25.)



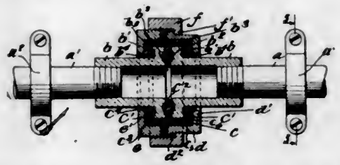
1. An outlet box comprising, in combination, a base and a side wall secured thereto, said base and wall each having therein a pair of knockout holes, and a clamp mounted in said outlet box at the intersection of said base and wall, said clamp occupying a position in said box substantially bisecting the angle of intersection of said base and wall whereby said clamp is adapted to engage with equal facility a conduit entering either of said pairs of knockout holes.

1,783,409. COMBINED CONDUIT CLAMPING AND BUSHING DEVICE. HERBERT RAY COOK, Chicago, Ill., assignor to Jefferson Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 23, 1929. Serial No. 342,122. 12 Claims. (Cl. 247—25.)



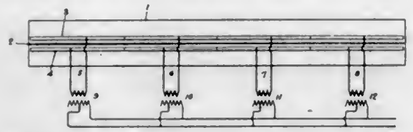
1. An outlet box having, in combination, a base wall and an intersecting side wall, each of said walls having a pair of knock-out holes formed therein adjacent to their intersection and to each other, and a unitary device positioned within said box for clamping a pair of conduits entering the box through either of said pairs of knockout holes and for bushing the ends of such a pair of conduits, said device comprising a substantially rigid member extending parallel to said intersection and formed from sheet metal to provide an apertured web with a clamping flange at one edge and a bushing flange at the other edge, said flanges being substantially parallel to each other, said clamping flange having spaced notches formed at its edges to engage the sides of a pair of conduits and said bushing flange having spaced apertures formed therein through which wires may pass from said conduits into the center of the box, and a screw for holding said member in said box and for applying clamping pressure to said clamping flange, said screw extending through the aperture in said web and engaging said box at an angle of substantially 45° to said walls.

1,783,410. SHOCK INSULATED UNION AND PIPE STRAP. ROBERT F. COWELL, Teaneck, N. J., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 2, 1928. Serial No. 309,726. 1 Claim. (Cl. 285—90.)



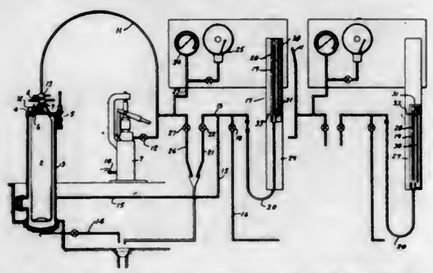
A resilient cushioning coupling for connecting pipe sections comprising juxtaposed flanges carried by the pipe sections, spaced annular grooves in the flanges, an annular block of yielding non-metallic material, annular grooves on the inner periphery of the block for receiving the juxtaposed flanges, clamping sections receiving the block to secure the block and flanges together, and means to secure the clamping sections together comprising a retaining nut surrounding and operatively engaging the two sections.

1,783,411. METHOD OF ELECTRICALLY WELDING TUBULAR ARTICLES. WILLIAM E. CRAWFORD, Wauwatosa, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed May 8, 1929. Serial No. 361,433. 3 Claims. (Cl. 219—10.)



1. The method of electrically welding a single longitudinal seam to form a tubular article, which comprises distributing the welding current along the edges to be welded and employing a higher initial voltage at the ends of the work than in the center to thereby effect a uniform and simultaneous heating of the edges to welding temperature, and pressing the edges together to weld the same throughout the length thereof.

1,783,412. METHOD AND APPARATUS FOR TESTING CYLINDERS. JOHN J. CROWE, Westfield, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 24, 1930. Serial No. 430,478. 5 Claims. (Cl. 73—51.)

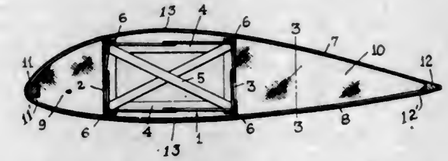


1. The method of testing cylinders in which the cylinder to be tested is enclosed in a water-jacket the interior

of which is connected with an expansion indicator, and predetermined pressure is applied to the interior of the cylinder and afterwards released, total and permanent expansion readings being taken on the indicator before and after such release of pressure, characterized in that the top of the column of water in the expansion indicator is leveled to the same zero level for each reading.

2. Apparatus for testing cylinders, comprising a tight water-jacket to receive a cylinder to be tested, means for applying pressure to and releasing pressure from the interior of the cylinder, an open expansion indicator connected with the interior of said water-jacket, and means for leveling the top of the column of water in said indicator to the same zero level before and after pressure is released from the cylinder.

1,783,413. AEROFOIL CONSTRUCTION. NELSON W. DALTON, Bath, N. Y., assignor of three-fourths to Pequod Realty Corporation, New York, N. Y. Filed May 3, 1930. Serial No. 449,382. 10 Claims. (Cl. 244—31.)



1. An aerofoil construction for aircraft including a central spar construction, fore and aft extending flexible contour members passing over the upper and lower sides of said central structure and fore and aft fabric webs attached to said contour members and holding the same to the desired aerofoil curvature.

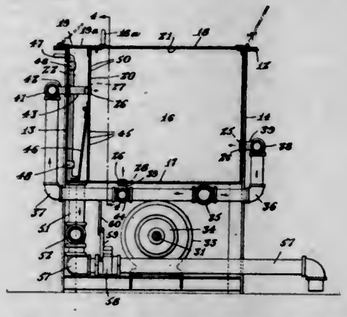
1,783,414. DISPENSING DEVICE. JOSEPH S. DANIELS, Rhinelander, Wis., assignor to Daniels Manufacturing Company, Rhinelander, Wis., a Corporation of Wisconsin. Filed June 18, 1928. Serial No. 286,088. 5 Claims. (Cl. 312—61.)



1. A napkin dispensing device comprising a container having side walls and an open top serving as a filling opening, dispensing openings in opposite side walls of said container, a closure for said open top, a support secured to and depending from said closure and positioned centrally of said container and spring means secured on opposite sides of said support and arranged to urge contained napkins toward said dispensing openings.

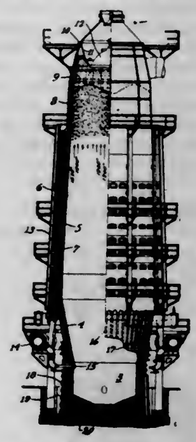
1,783,415. WASHING MACHINE. OTTO T. DEHLE, Watertown, Mass., assignor to Multi-Hydro Washing Machine Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 18, 1930. Serial No. 445,322. 5 Claims. (Cl. 259—95.)

1. A clothes washing machine comprising a receptacle adapted to receive a cleansing liquid and the articles to be cleaned, means for forcing said liquid to said receptacle and receiving it again, said receptacle having a port at the bottom for the introduction of a stream upwardly, a port at one side for the introduction of a stream horizontally, and another port at the opposite side for the introduction of another stream horizontally, said ports being so located relative to each other that said articles are caused to be moved by the streams entering through said ports in a substantially regular



course in said receptacle and are brought in close proximity to each of said ports during each complete movement about the receptacle, said receptacle having provision for the escape of said liquid to said means.

1,783,416. BLAST FURNACE. JAMES P. DOVEL, Birmingham, Ala., assignor to G. P. Dovel. Original application filed July 28, 1927, Serial No. 209,074. Divided and this application filed Jan. 7, 1929. Serial No. 330,894. 3 Claims. (Cl. 266—27.)



1. In a blast furnace stack, the combination of a metallic jacket for the stack, an agglomerate refractory stack lining, water cooled elements mounted to project through the jacket in a position to agglomerate particles of stock to form the refractory stack lining, and a charging bell having an area at the base substantially one third that of the stack at its normal upper level in the furnace stack whereby to discharge the stock into the stack so as to provide relatively large void areas immediately adjacent to the stack lining.

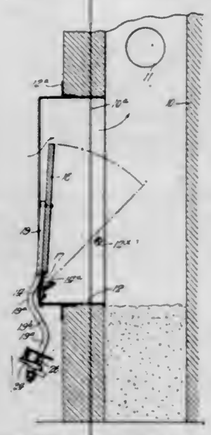
1,783,417. WHITE ANHYDROUS CALCIUM SULPHATE AND METHOD FOR PRODUCING SAME. CHARLES B. DURGIN and ARTHUR B. GERBER, Anniston, Ala., and PAUL LOGUE, St. Louis, Mo., assignors, by mesne assignments, to Swann Research, Inc., Birmingham, Ala., a Corporation of Alabama. Filed Jan. 21, 1926. Serial No. 82,877. 9 Claims. (Cl. 23—5.)

3. A method for the production of white anhydrous calcium sulphate, which consists in adding calcium phos-

phate to hydrated calcium sulphate, and heating the mixture to approximately 1400° F. to produce anhydrous calcium sulphate, substantially as described.

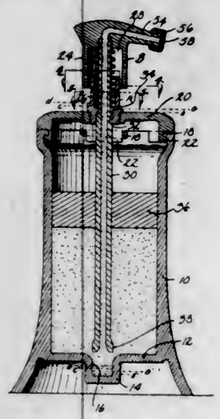
7. As a new article of manufacture, a white anhydrous calcium sulphate containing calcium phosphate not substantially in excess of 5% of the mixture.

1,783,418. DRAFT STABILIZER. EDWARD A. FIELD and EDWARD A. FIELD, Jr., Chicago, Ill. Filed May 16, 1928. Serial No. 278,253. 13 Claims. (Cl. 236—45.)



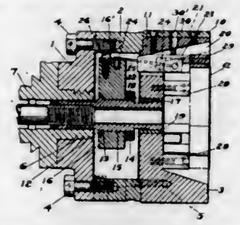
1. A draft stabilizer comprising in combination a pivotally mounted plate movable to and from closing position, a supporting bar attached to said plate, a counterweight carried by said bar and underlying said plate, said counterweight being adjustable on said bar and about said bar to shift its center of gravity with respect to the plane of said plate along an inclined plane.

1,783,419. DISPERSER CHARGE-REGULATING DEVICE. FRED W. FITCH, Des Moines, Iowa. Filed Apr. 30, 1929. Serial No. 359,273. 3 Claims. Cl. 221—103.)



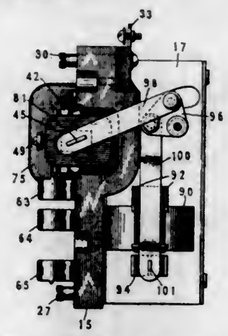
1. In a dispensing device, means for controlling the amount of material dispensed, said means including an angular flat sided fitting and a second fitting of tubular shape adapted to rotate over the first fitting and engage the corners thereof, an inwardly extending flange on the second fitting engaging a side of the first fitting for preventing such rotation, and means to allow rotation comprising an annular groove in the first fitting adapted to receive said flange.

1,783,420. CHUCK. GEORGE E. GARNO, Worcester, Mass., assignor to The Heald Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 27, 1926. Serial No. 157,175. 4 Claims. (Cl. 279—106.)



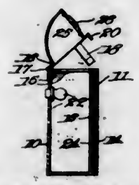
1. In a chuck, a member slidably mounted in said chuck, work gripping paws, inclined plane means to force said jaws together, flat springs attached to said member and therefore movable with it, and blocks pivotally carried by said jaws, one end of said flat springs being fastened to said blocks whereby said jaws may be drawn into said chuck by movement of said slidable member transmitted through tensile pull of said flat springs, but flexure of said flat springs allowing elements on said jaws to remain parallel to the surface of the work piece to be engaged.

1,783,421. ELECTRIC SWITCH. BENJAMIN E. GETCHELL, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a Corporation of Connecticut. Original application filed Sept. 22, 1927, Serial No. 221,215. Divided and this application filed Dec. 27, 1927. Serial No. 242,560. 7 Claims. (Cl. 200—87.)



1. In a switch, an insulating base, switch mechanism mounted at the front thereof and including a cross bar, side plates secured to said base and extending rearwardly therefrom, an electro-magnet mounted at the rear of the base and having a core and an armature supported between said side plates, levers pivoted to said side plates, links connecting said cross bar with said levers and links connecting said levers with said armature.

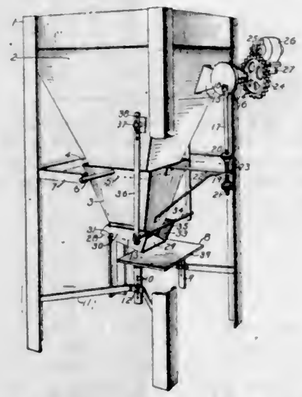
1,783,422. AUTOMOBILE SIGNAL. HENRY GROB, Piqua, Ohio. Filed Dec. 31, 1925. Serial No. 78,602. 1 Claim. (Cl. 40—132.)



A device of the class described comprising an illuminable signal casing having inwardly extending flanges

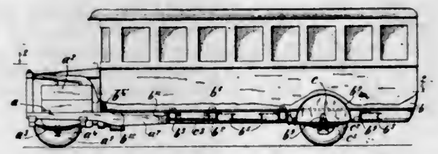
at the top of the side and rear walls, said flanges of the side walls terminating short of the front wall, sign holders on the front walls forwardly of the flanges of said side walls, an upwardly removable sign in said sign holders, a displaceable closure resting on said flanges, an auxiliary casing rising from the closure and spaced inwardly on its sides and ends, said auxiliary casing being open at the front and having a downwardly and rearwardly curving wall, said closure being unobstructed other than by said flanges at the top so that a sign may be inserted and removed and the auxiliary casing will be illuminated from the first casing.

1,783,423. CHEMICAL-FEED MACHINE. ELMER E. HARPER, Kansas City, Mo. Filed Apr. 9, 1928. Serial No. 268,516. 17 Claims. (Cl. 221—118.)



1. In a material feeding machine, a bin, a pivoted hopper for receiving material from the bin, and means for upheaving material contained in the hopper including means for pivotally moving said hopper.

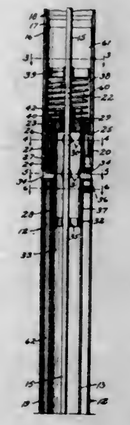
1,783,424. BUS BODY. EDWARD R. HEWITT, Midvale, N. J., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed June 29, 1928. Serial No. 289,113. 1 Claim. (Cl. 180—73.)



In a motor vehicle composed of two sections, a load carrying section mounted upon the driving wheels and having cross frame members spaced in a fore and aft relation, a second section comprising steering wheels, parallel frame members carried thereon, an engine on said frame members, connections for rigidly securing said second section detachably to the after cross frame member of the load carrying section at points lying in the planes of the frame members, means to secure the forward cross frame member to the tops of the parallel frame members, and detachable means extending through the after cross frame member for transmitting power from the engine to the driving wheels.

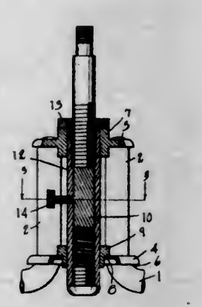
1,783,425. DOUBLE-ACTING PUMP. JOHN S. HUNTER, Coalinga, Calif. Filed Sept. 24, 1928. Serial No. 307,946. 8 Claims. (Cl. 103—156.)

2. In a double acting pump, the combination of: an outer barrel adapted for attachment to a well-tubing and provided at its lower end with downwardly closing valve means; an inner barrel fixed within said outer barrel, and communicating with said outer barrel by orifices at its lower end, said outer barrel being extended above said inner barrel to form a fluid delivery passage for delivering pumped fluid to said well-tubing; downwardly closing valve means comprising a collar slidably fitting on said inner barrel and adapted to control communication between a space formed by said inner and outer barrels



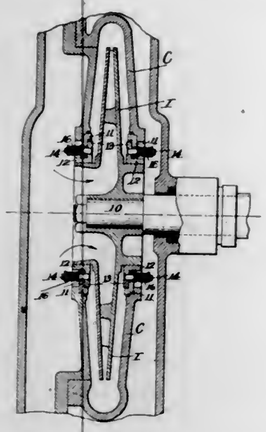
and said fluid delivery passage; downwardly closing valve means comprising a sleeve member slidably fitting in said inner barrel and adapted to control communication between the interior of said inner barrel and said fluid delivery passage, and also adapted to control communication between the interior of said inner barrel and the space outside the outer barrel by means of a duct; spring means rigidly associated with said outer barrel and adapted to engage said slidably fitting collar; and piston means adapted to be reciprocated within said inner barrel.

1,783,426. ADJUSTABLE CHAIR. REGINALD C. HUNTLEY, Sturgis, Mich., assignor to Sturgis Posture Chair Company, Sturgis, Mich. Filed Dec. 11, 1929. Serial No. 413,197. 4 Claims. (Cl. 155—93.)



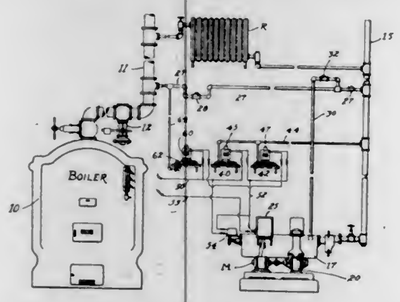
4. In a chair, the combination of legs having upper end portions disposed in parallel looped relation, a head having a central bearing therein mounted on the upper ends of said legs, a supporting plate mounted on said legs in spaced relation to said head and provided with a central opening, a shouldered bearing arranged in said opening, a seat provided with a threaded spindle, and a tubular internally threaded spindle supporting sleeve rotatably mounted in said bearing in said head and said bearing in said tie plate and having a bearing collar resting upon the bearing of said head member.

1,783,427. SEALING DEVICE FOR CENTRIFUGAL PUMPS. IRVING C. JENNINGS, South Norwalk, Conn. Filed Aug. 11, 1924. Serial No. 731,287. 2 Claims. (Cl. 286—7.)



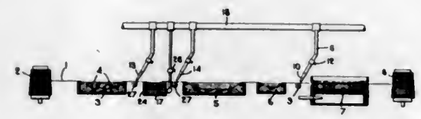
1. In a centrifugal pump, the combination of a casing, an impeller running therein and a sealing device between the impeller and casing, said sealing device comprising a flanged bearing ring removably secured to a wall of said casing adjacent the hub of the impeller and a flanged sealing ring mounted on the hub of the impeller and slidable axially thereon, the flange of the sealing ring engaging the flange of the bearing ring in a plane perpendicular to the axis of the impeller and having radial clearances relative thereto permitting radial play or adjustment of said sealing ring thereon, and said sealing ring being exposed to the pressure generated by the impeller in said casing so that such pressure will force the sealing ring axially into tight surface engagement with the flange of the bearing ring.

1,783,428. PRESSURE-CONTROL MECHANISM FOR VACUUM HEATING SYSTEMS. IRVING C. JENNINGS, South Norwalk, Conn. Filed Apr. 30, 1929. Serial No. 359,315. 4 Claims. (Cl. 103—25.)



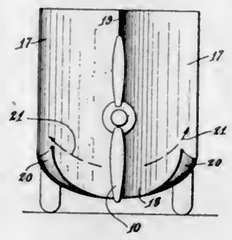
1. In a vacuum heating system having a supply side, a return side, and a vacuum pump connected to the return side, in combination, a starting mechanism for said pump, a vacuum-controlled circuit-closing device for said starting mechanism, a second vacuum-controlled circuit-closing device for said starting mechanism, said devices being adapted to operate between different vacuum ranges in the return side of the system, and a control switch effective, to render one of said devices operative or inoperative, in response to the degree of vacum maintained in the supply side of the system.

1,783,429. APPARATUS FOR COATING WIRE. CHARLES D. JOHNSON, Worcester, Mass., assignor to Johnson Steel & Wire Company, Inc., Worcester, Mass., a Corporation of Massachusetts. Filed June 22, 1929. Serial No. 372,962. 2 Claims. (Cl. 91—12.5.)



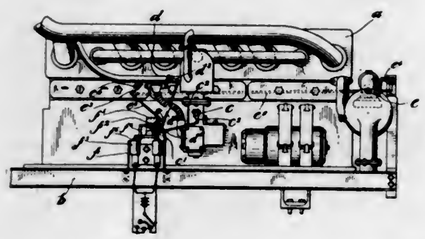
1. An apparatus for coating wire comprising an acid bath, a coating bath, a washing bath, means for drawing the wire through the baths successively, a roll over which the wire passes as it leaves the washing bath, and means to direct an air jet against the wire in the direction of the roll just as it leaves the latter, whereby the air will be deflected from the surface of the roll against the roll-engaging surface of the wire.

1,783,430. METHOD OF AND APPARATUS FOR TREATING FRUIT TREES. THOMAS W. JOHNSON, Mountain View, Calif., assignor to Victor H. Owen, Oakland, Calif. Filed Apr. 2, 1929. Serial No. 351,894. 4 Claims. (Cl. 47—1.)



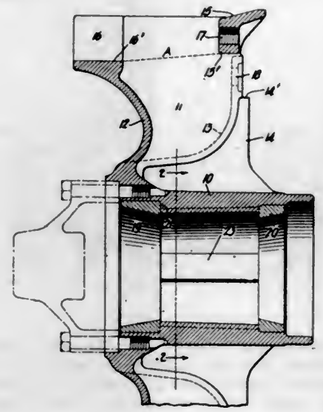
1. A method of treating fruit trees to increase the productivity thereof, including the step of removing the calyx rings from young fruit by subjecting the fruit to an artificial current of air.

1,783,431. THROTTLE-CONTROLLING MEANS FOR INTERNAL-COMBUSTION ENGINES. WILLIAM B. JUPP, Brooklyn, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 19, 1927. Serial No. 214,126. 3 Claims. (Cl. 123—99.)



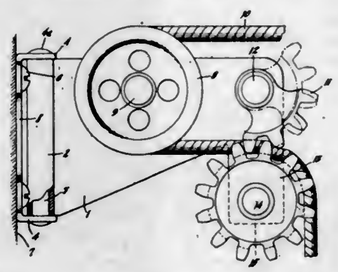
1. In a controlling mechanism for the throttle, heat and spark of an internal combustion engine, a pair of actuating means, a U-shaped bracket secured to the engine structure, means to secure the actuating means to the bridge of the U-shaped bracket, an arm connected between the actuating means, an extension to the bracket forming opposed sides, means to journal a rock shaft in the sides, a crank on the shaft, means connecting the crank with the arm at a point nearer one of the actuating means than the other, a plurality of operating cranks on the shaft, means connecting the cranks to the throttle, heat and spark controls respectively, and means to effect the actuation of the actuating means in a desired order.

1,783,432. VEHICLE WHEEL-HUB CONSTRUCTION. CHARLES G. KELLER, Poughkeepsie, N. Y. Filed Mar. 29, 1928. Serial No. 265,575. 7 Claims. (Cl. 308—236.)



1. A cast metal hub for vehicle wheels, having opposed annular seats therein for a pair of bearing race rings, and a plurality of ribs extending lengthwise along the inner surface, the ends of said ribs being in the same transverse planes as said seats.

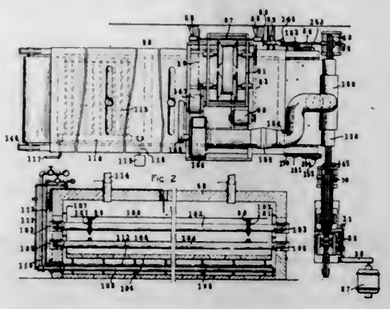
1,783,433. CLOTHESLINE SUPPORT. JAMES L. KELLER, Ferndale, Mich. Filed Apr. 12, 1929. Serial No. 354,500. 9 Claims. (Cl. 68—3.)



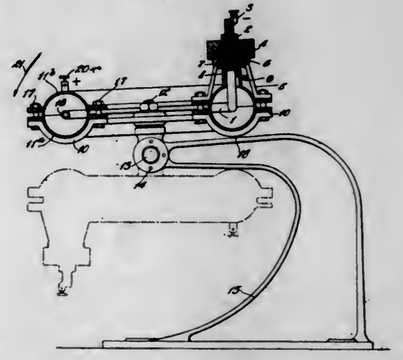
3. A line clamp comprising two pivoted members formed with intermeshing teeth adapted to clamp a line upon rotation in one direction, means to provide for the passage of a line between the two members comprising a notch in the face of at least the leading tooth of one member, and means to clamp the cable against the other pivoted member upon further rotation in said direction comprising the face of at least one of the teeth following said leading tooth on said first mentioned member.

1,783,434. COMBINATION TOASTING AND SHREDDING OVEN. JOHN LEONARD KELLOGG, Battle Creek, Mich., assignor to Kellogg Company, Battle Creek, Mich., a Corporation of Delaware. Filed Nov. 9, 1922. Serial No. 599,878. 43 Claims. (Cl. 107—2.)

1. In a machine of the class described, in combination, shredding mechanism, moving means to receive the shredded material and mold it into biscuits comprising upper and lower mold sections cooperating with each other to mold said material by pressure, the pressure being applied solely by said sections, an oven, a conveyor for transporting the biscuits through the oven, and means for transferring the biscuits from the molding means intermediate the ends of the range of travel of said moving means to the conveyor.



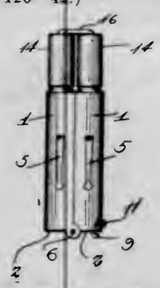
1,783,435. MANUFACTURE OF RUBBER GOODS FROM RUBBER DISPERSIONS. PAUL KLEIN, Budapest, Hungary, and ANDREW SZEGVARI, Akron, Ohio, assignors to American Anode Inc., Akron, Ohio, a Corporation of Delaware. Filed Apr. 13, 1927, Serial No. 183,606, and in Hungary and Germany Apr. 14, 1926. 11 Claims. (Cl. 204—1.)



5. The steps in the process of making hollow rubber articles by electrodeposition from aqueous rubber dispersions with an exterior mold-formed surface which comprises confining a quantity of aqueous dispersion in contact with surface capable of producing the exterior contour of the hollow article, depositing by an electric current traversing the said dispersion through the intermediary of a cathode immersed therein a layer of rubber upon said surface, and oxidizing the gases formed at the cathode to inhibit their entrainment in the rubber layer deposited, whereby gases normally liberated at the cathode are reacted with said agent and inhibited from entrainment with the deposited rubber layer.

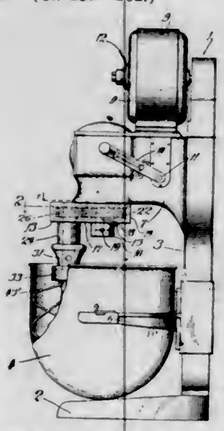
6. Apparatus for the manufacture of hollow articles comprising a mold adapted to contain an aqueous dispersion of rubber, and having an interior anodic surface upon which a layer of rubber is adapted to be deposited by electrophoresis, a cathode disposed within said mold, and means associated with the cathode for preventing the liberation of gases formed at the cathode, whereby gases normally liberated at the cathode are inhibited from entrainment with the deposited rubber layer.

1,783,436. FOUNTAIN PEN. EMANUEL KRATOCHVIL, Chicago, Ill. Filed May 23, 1929. Serial No. 365,338. 1 Claim. (Cl. 120—42.)



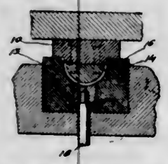
A closure cap for the barrel ends of double barreled fountain pens including cap sections, a U-shaped rod having the cap sections swivelled thereon, one cap section being frictionally engaged with one barrel and the other cap section having threaded engagement with the other barrel.

1,783,437. WHIPPER AND MIXER. WILLIAM L. LAIB, Oak Park, Ill. Filed Sept. 23, 1929. Serial No. 394,708. 12 Claims. (Cl. 259—102.)



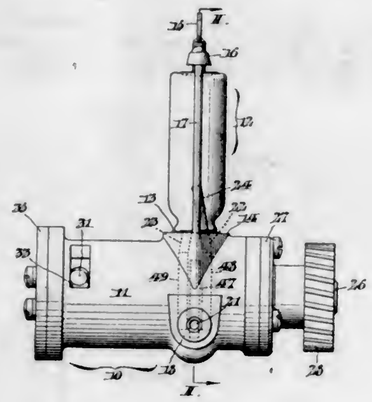
1. In a device of the class described, a whipper comprising a plurality of upwardly and downwardly extending peripheral frame portions spaced apart circumferentially and adapted to rotate upon a vertical axis, and an inclined peripheral whipper member mounted in engagement with and extending outside of and in oblique relation to said spaced-apart peripheral frame portions and adapted to rotate around the said axis.

1,783,438. PROCESS OF MAKING BEARINGS. CHARLES H. LANDERS, Lansing, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Jan. 16, 1926. Serial No. 81,766. 15 Claims. (Cl. 29—149.5.)



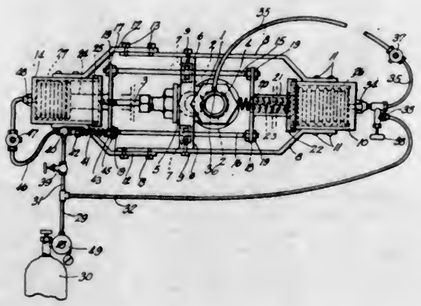
1. The process of making bearings which consists in forming blanks to the shape of a bearing segment, arranging the blanks to form a tubular member, babbitting the blanks while so held and severing the segments.

1,783,439. PUMPING UNIT FOR ARTIFICIAL-SILK SPINNING MACHINES. CHARLES W. LAWSER, Bala, Pa., assignor to The Wicaco Machine Corporation, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 8, 1929. Serial No. 345,263. 5 Claims. (Cl. 103—162.)



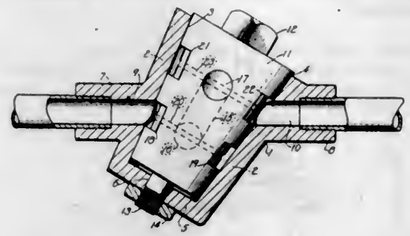
1. In a pumping unit of the character described, a casing having main intake and discharge ports at circumferentially spaced points, a pair of auxiliary efflux and influx ports at an intermediate point leading into and out of an associated pressure bottle, and at its interior a series of spaced circumferential grooves, and a rotor having a series of piston accommodating bores adapted to govern said ports and grooves so that as a charge of fluid is drawn in during the suction period of rotor action, and subsequently injected through the auxiliary efflux port into the pressure bottle, a corresponding quantity of the fluid is concurrently displaced from said bottle for delivery through the main discharge port of the pump after circulating through the bottle.

1,783,440. AUTOMATIC SAFETY VALVE. CARL M. LIEBER, Oklahoma City, Okla. Filed Dec 26, 1929. Serial No. 416,614. 9 Claims. (Cl. 137—34.3.)



1. A device, as described, embodying a gate valve, a yoke rigidly disposed upon the body of said valve, a pair of sylphons each operably supported on opposite ends of said yoke, a frame slidably mounted on said body and connected at each end to one of said sylphons, said frame rigidly attached to the stem of said gate valve and adapted to be actuated by said sylphons for opening and closing said gate valve, and fluid pressure means for automatically actuating said sylphons when a fire occurs adjacent a part of said actuating means.

1,783,441. VALVE. JAMES O. LEWIS, Tulsa, Okla. Filed July 8, 1929. Serial No. 376,664. 5 Claims. (Cl. 251—98.)

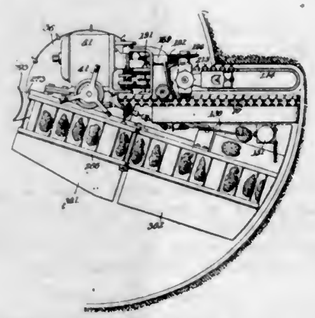


1. A valve of the character described including a housing having opposite flow inlet and outlet, a plug rotatable in said housing having a channel extending diagonally through the plug and adapted for providing direct communication between the inlet and outlet of the housing, one of said members having a recess and adapted for communication with said inlet when the valve is closed and having a diametrically opposite recess, the plug member having a passageway connecting said recesses.

1,783,442. RECORDING PAPER. CHARLES W. MAYER and EVERETT F. SILLER, Rochester, N. Y. Filed Feb. 4, 1928. Serial No. 251,998. 5 Claims. (Cl. 282—28.)

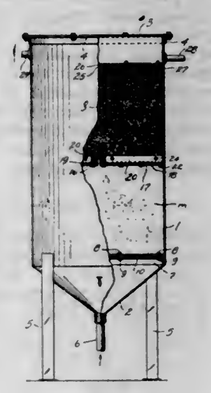
1. A recording paper consisting of a deeply colored stock, covered with a waxy crystallized coating of contrasting color and an outer layer of inert powder.

1,783,443. MINING AND LOADING MACHINE. EDMUND C. MORGAN, Richmond Hill, N. Y.; Olive Eugenie Morgan executrix of said Edmund C. Morgan, deceased. Filed May 9, 1917. Serial No. 167,467. 87 Claims. (Cl. 262—9.)



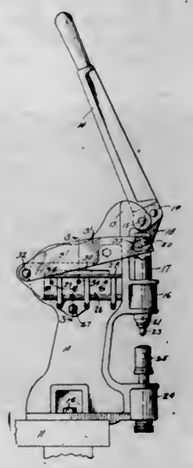
1. In a machine for undercutting, breaking down and loading coal, the combination of a frame movable in a curved path substantially parallel to a curved coal face, a low-down laterally projecting horizontal kerf cutter on said frame in position to undercut the coil to be removed, means for engaging the frame and causing it to move in a fixed arcuate path, an upright curved kerf cutter extending upwardly from the inner end of said horizontal kerf cutter, means for breaking down the coal and means for removing the broken down coal, said breaking down and removing means performing their respective functions as the said kerf cutters are advanced to form the floor kerf and the next curved coal face.

1,783,444. FILTER FOR CLEANING FLUIDS. PAUL W. MORGAN, St. Louis, Mo., assignor to Morgan Dry Cleaners Equipment Co., St. Louis, Mo., a Corporation of Missouri. Filed Aug. 9, 1929. Serial No. 384,771. 1 Claim. (Cl. 210—134.)



A filter comprising a tank having an inlet at one end and an outlet at the opposite end, a bed of filter material in said tank, a pervious support therefor, a mass of inert material over said filter bed, and a partition screen between the filter bed and inert material, said partition screen comprising a plurality of sections in loosely connected relation.

1,783,445. SHEARING AND RIVETING MACHINE. CARL A. OLSON, FREDERICK L. BUCH, and THOMAS E. BROOKS, Clarinda, Iowa, assignors to The Lisle Manufacturing Company, Clarinda, Iowa, a Corporation of Iowa. Original application filed Sept. 12, 1927, Serial No. 218,983. Divided and this application filed Aug. 6, 1928. Serial No. 297,622. 2 Claims. (Cl. 29—34.)

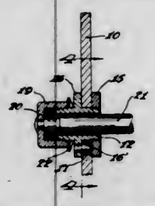


1. A machine of the class described, comprising a frame, a lever fulcrumed at its lower end on said frame, a tool-carrying sleeve arranged for vertical sliding movement in said frame, a link pivoted to said lever at a point forwardly of its fulcrum, a pivot pin carried by the upper end of said sleeve and engaging said link, a stationary shear blade carried by said frame, and a movable shear blade pivoted at one end to said frame and

adapted to cooperate with the stationary blade, said movable blade having at its opposite end a slot receving said pivot pin of the link to the sleeve, whereby the tool-carrying sleeve and movable blade are conjunctively operated when the lever is moved through an arc.

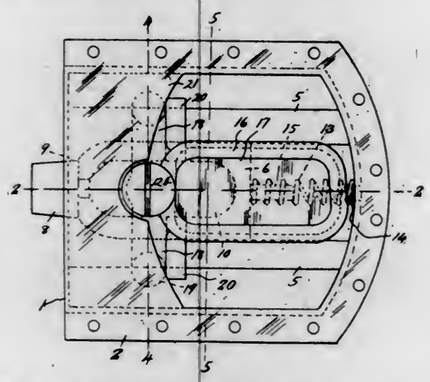
2. A machine of the character described, comprising a frame, a tool-carrying sleeve arranged for sliding movement therein, a pin carried by said sleeve, a lever of substantially bell-crank type fulcrumed on said frame substantially in alignment with said sleeve a, link pivoted on said pin and pivotally connected to said lever at a point spaced laterally from its fulcrum, a stationary shear blade on said frame, and a movable shear blade pivoted on the frame and formed with a slot having pivotal and slidable engagement with said pin.

1,783,446. ATTACHMENT FOR CALCULATING MACHINES. AUSTIN A. OVERBURY, West Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a Corporation of Delaware. Filed Apr. 9, 1929. Serial No. 353,725. 5 Claims. (Cl. 308—15.)



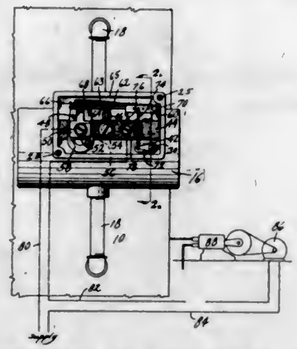
1. The combination of a frame formed with a main slot and a secondary slot leading into said main slot, a bearing adapted to be seated in the first said slot and carrying a locking element adapted to engage the second said slot and to coact therewith for forcing said bearing to its seat in the first said slot, and means for securing said bearing to said frame.

1,783,447. WASHING-MACHINE-COVER LATCH. ALFRED PARTLOW, Lincoln Park, Mich., assignor to Vorclone Corporation, Milwaukee, Wis., a Corporation of Delaware. Filed Aug. 30, 1928. Serial No. 303,064. 4 Claims. (Cl. 292—173.)



1. A latch comprising a casing open at one side thereof, and formed with a longitudinal slideway, a bolt slidable in said slideway formed with a head projecting from said casing, and having a pair of oppositely projecting lugs, an actuating member pivoted in said casing, having opposite lateral projections engaging said lugs for retracting the bolt, and formed rearwardly of its pivot with a pocket opening toward the open side of the casing for receiving actuating means, and a spring normally projecting said bolt.

1,783,448. FLOAT-OPERATED SWITCH. ALBERT PENN, Des Moines, Iowa, assignor to Penn Electric Switch Co., Des Moines, Iowa, a Corporation of Iowa. Filed May 21, 1928. Serial No. 279,328. 5 Claims. (Cl. 200—84.)



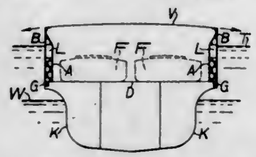
1. An automatic water level controlling structure comprising a float housing, a rock shaft extending therefrom, a float within said housing and secured to said rock shaft, a switch mounted on said housing and including a switch arm, means constantly tending to maintain said switch arm in "on" position and an operative connection between said rock shaft and said switch arm whereby the switch arm may be resiliently moved against the action of said means.

1,783,449. THREAD-EXTRACTING NEEDLE. STANISLAS PICARD, Providence, R. I., assignor to B. B. & R. Knight Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Mar. 20, 1929. Serial No. 348,512. 2 Claims. (Cl. 112—78.)



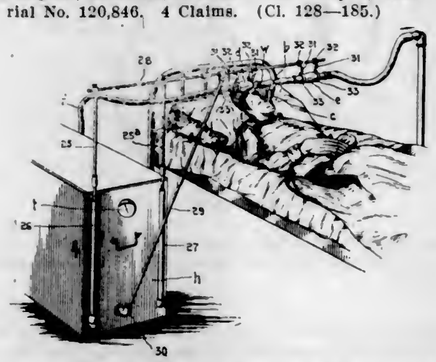
1. A thread extracting needle having a tapered fabric engaging end portion, two diametrically opposite thread engaging edges having spaced notches therein, and diametrically opposite smooth thread engaging edges positioned between the said notched edges.

1,783,450. DOCK SHIP FOR CONVEYING RIVER BOATS ACROSS THE SEA. OTTO POPPER, Vienna, Austria. Filed Mar. 29, 1929, Serial No. 350,897, and in Germany Nov. 5, 1928. 4 Claims. (Cl. 114—72.)



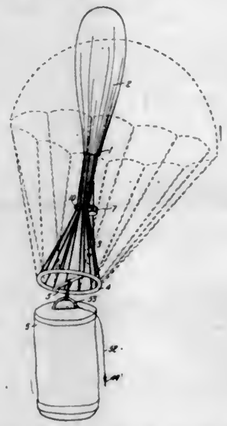
1. In a dock ship for conveying river boats across the sea, the combination of a dock platform arranged above the water level with walls provided at the board sides of the ship, air compartments arranged in said walls, and means pivotally connecting the said walls with the hull of the dock ship.

1,783,451. APPARATUS FOR DIAGNOSING HUMAN AILMENTS. ISRAEL MORDECAI RABINOWITCH, Montreal, Quebec, Canada, assignor to The Montreal General Hospital, Montreal, Canada. Filed July 6, 1926. Serial No. 120,846. 4 Claims. (Cl. 128—185.)



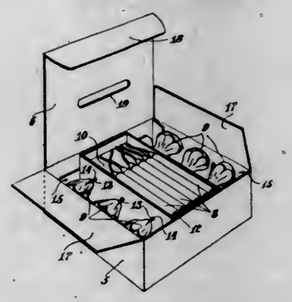
1. An article of commerce consisting of a portable case with carrying handle and containing a respiration member, a pair of chambers, a Wheatstone bridge the arms of which are located in the respective chambers, a galvanometer within the electric circuit of the bridge, a rheostat for adjusting the electric circuit, a battery for energizing the circuit, a chamber in the case for containing an inhaler consisting of a mouth piece having a pair of oppositely extended branches, an outside air inhaler and containing a check valve allowing freedom of flow towards the inhaler, a tube means detachably connecting the other branch of the inhaler to the respiration member and containing a one-way valve allowing freedom of flow from the mouth piece to the respiration member; a second chamber containing a knock-down means for supporting the inhaler and the devices intimately connected thereto in position for use in the treatment of a subject.

1,783,452. PARACHUTE-CORD RETAINER. ANDREW H. REED, Kansas City, Mo., assignor of one-third to Charles W. Turner and one-third to S. M. Coffman, Kansas City, Mo. Filed Feb. 23, 1928. Serial No. 256,269. 12 Claims. (Cl. 244—21.)



1. In a parachute opening timing device, a case, a cord bundle-retaining member having an arm movable into and out of the case, means engaged within the case releasably engaging said member, and resilient means for moving the member from the case upon release of the same by said engaging means.

1,783,453. COMBINATION PACKAGE. MATHIAS REISERT, Brooklyn, N. Y., assignor, by direct and mesne assignments, of one-half to Cypress Novelty Corporation, Brooklyn, N. Y., a Corporation of New York, and one-half to N. D. Q. Specialty Corporation, a Corporation of New York. Filed Aug. 11, 1928. Serial No. 299,068. 4 Claims. (Cl. 206—47.)



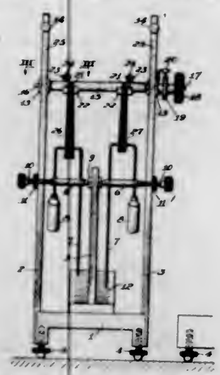
3. A combination package comprising a box having a bottom, walls, and a cover, and a carrier mounted in the box, a candle tray within the carrier said carrier being spaced from opposite walls of the box on at least two sides and on each of said sides being provided with means intermediate the cover and bottom to receive a plurality of stems, each stem and said carrier constituting a cantilever support for a fragile bulbous article on the side of the carrier for keeping the weight of said articles off the bottom or cover of the box.

1,783,454. IMITATION PLASTER. ROBERT S. SCHMIEDER, Milwaukee, Wis., assignor, by mesne assignments, to Milcor Steel Company, Milwaukee, Wis., a Corporation of Delaware. Filed Apr. 6, 1928. Serial No. 267,947. 4 Claims. (Cl. 189—85.)



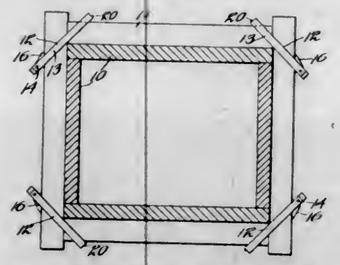
4. A section for use in a covering for ceilings, walls, and the like, comprising a sheet of sheet metal having an irregular relief and intaglio design formed on the external surface thereof to represent rough texture plaster, the design on the sheet being distributed entirely thereover, and continuing to and through the edges of the sheet, said sheet having certain of its edges in the mean plane of the body portion of the sheet and the other of its edges offset rearwardly from said plane to overlap and be overlapped respectively by the corresponding edges of other sheets used in connection therewith.

1,783,455. BRISTLE TESTER. FREDERICK W. SCHNEIDER, Baltimore, Md., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Mar. 30, 1929. Serial No. 351,259. 5 Claims. (Cl. 73—51.)



5. In combination in a bristle tester, a frame, a pair of similar pointer members mounted in the frame for swinging movement with their axes of rotation in the horizontal position and in alinement with each other, gravity means for holding the two pointer members at zero position, a bar in parallel with said axes and mounted for rotary adjustment in the frame above the pointer members, and means for clamping one end of each of two bunches of bristles in the bar so that the bunches project away from the axis of the bar and the free end of one bunch is adapted to engage one pointer member and the free end of the other bunch is adapted to engage the other pointer member, said bar also being mounted for vertical adjustment in the frame.

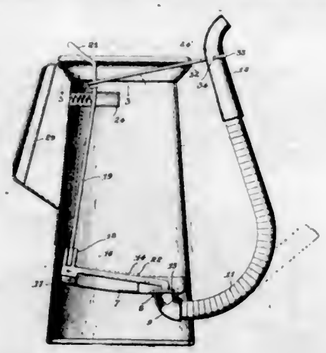
1,783,456. CORNER CLAMP. ELMER L. WILSON, Indianapolis, Ind. Filed July 14, 1928. Serial No. 292,785. 3 Claims. (Cl. 144—291.)



1. A corner clamp adapted to be applied diagonally across the intersecting extremities of re-enforcing members of a concrete column form comprising a U-shaped clamp, a pivot connecting the extremities of the U-shaped clamp, an operating member rotatably mounted on said pivot and adapted to receive a lever for rotating the operating member, and a shoe pivotally carried by the operating member and having impaling teeth for piercing the member upon which it is supported for binding the parts tightly together, substantially as set forth.

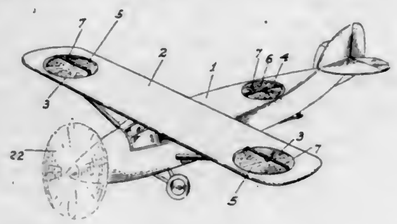
1,783,457. LIQUID MEASURING AND DISPENSING CAN. ROBERT G. WILSON, Wayne, and RONALD M. WILSON, Upper Darby, Pa., assignors to The Huffman Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Filed June 13, 1929. Serial No. 370,600. 11 Claims. (Cl. 221—16.)

1. In a liquid dispensing can provided with a flexible tube communicating with a port in the bottom of the can and a valve normally closing the port and opened by operating means at the top of the can, movable means



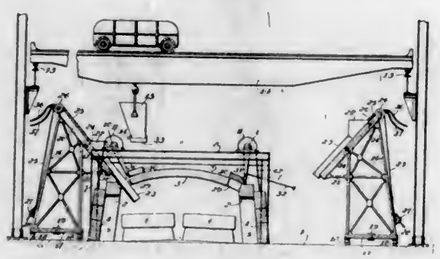
connected with said operating means for holding said tube in an upright position and available only when said valve is closed.

1,783,458. VERTICAL-LIFT AIRPLANE. GEORGE W. WINDSOR, Sacramento, Calif., assignor of one-third to Albert E. Grimm, Sacramento, Calif. Filed Feb. 25, 1929. Serial No. 342,531. 8 Claims. (Cl. 244—15.)



1. In an airplane, having openings through a wing thereof to the sides of the fuselage, and a similar opening through the fuselage rearwardly of said wing; propellers mounted within said openings on vertical axes, a common drive means for all said propellers, and a common means for altering the effectiveness of said propellers relative to the rear propeller independently or simultaneously, selectively, without altering the speed of the drive means.

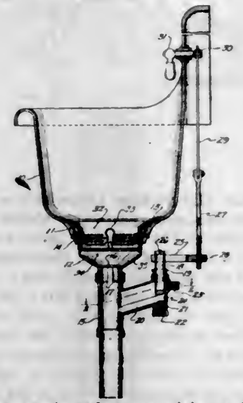
1,783,459. GLASS-POT-FILLING APPARATUS. WILLIAM E. BARNES, Tarentum, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Mar. 14, 1927. Serial No. 175,049. 2 Claims. (Cl. 214—18.)



1. The combination in apparatus for charging a glass pot furnace having a series of openings through its crown,

of a framework mounted for movement upon the floor in front of the furnace longitudinally thereof and provided with a filling means consisting of a hopper and a chute lying above the furnace and supported so that it may be moved up and down upon said framework at an inclination such that the chute will pass through any one of said openings when lowered, and means for supplying batch to said hopper, said framework being mounted for swinging movement about a vertical axis so that the angle at which the chute enters the furnace may be shifted to permit it to discharge to either one of two pots in the furnace.

1,783,460. POP-UP WASTE. FRANK G. BROTZ, Kohler, Wis., assignor to Kohler Company, Kohler, Wis., a Corporation of Wisconsin. Filed Aug. 6, 1926. Serial No. 127,635. 4 Claims. (Cl. 4—203.)



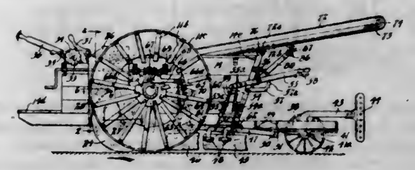
1. A pop-up waste valve comprising a housing forming spaced vertical guides with a narrow inclined connection between them, a waste plug having a tubular stem fitting in one guide of the housing and a plunger rod fitting in the other guide of the housing, a connecting rod secured to the plunger rod and engaging in an opening of the stem of the waste plug, a valve seat for the waste plug connected with the housing, and means for lifting the plunger rod to lift the waste plug, the stem of said waste plug being of sufficient length to avoid uncovering the connection between the guides in the open position of the waste plug.

1,783,461. OPTICAL INSTRUMENT. WILLIAM J. CAMERON, Chicago, Ill. Filed Dec. 28, 1927. Serial No. 243,162. 12 Claims. (Cl. 88—20.)



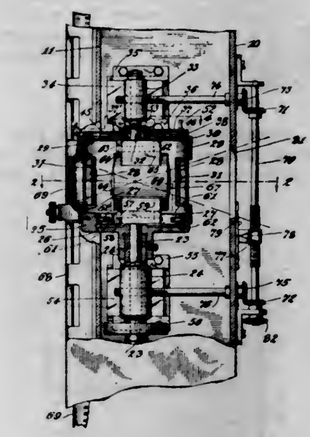
1. A device of the kind described comprising a suitable instrument having a tubular member thereon, a lens at one end of said tube, a hollow barrel coacting with the opposite open end of said tube, a stem reciprocable longitudinally in said barrel, a lamp on the end of said stem nearest said lens, means exterior to said structure for moving the stem longitudinally to vary the distance between the lamp and lens, and other means movable independently of the first means for rotating said lamp.

1,783,462. EXCAVATING, ELEVATING, AND LOADING MACHINE. HARRY K. CLEMONS, St. Paul, Minn. Filed Aug. 3, 1927. Serial No. 210,306. 9 Claims. (Cl. 37—9.)



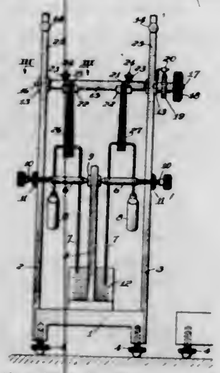
1. In a machine of the class described, a vehicle having a body adapted to be drawn along the ground, a pair of wheels supporting said body, one of said wheels being constructed and arranged to form an elevating means, an axle supported by said body to which said last mentioned wheel is secured, the other of said pair of wheels being journaled on said axle, and means for connecting and disconnecting said last mentioned wheel to said axle.

1,783,463. MOTION-PICTURE CAMERA. JOHN D. ELMS, St. George, N. Y., assignor, by mesne assignments, to Felms Revo Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 10, 1928. Serial No. 268,904. 16 Claims. (Cl. 88—16.)



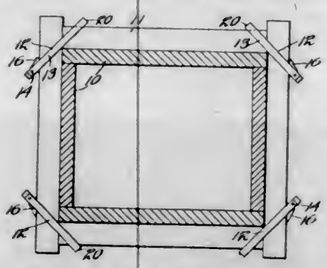
1. In a motion picture camera, in combination, a revoluble double-ended lens of non-coincident nodal points, means for revolving said lens and means for bringing each said nodal point into the axis of revolution during each revolution of said lens.

1,783,455. BRISTLE TESTER. FREDERICK W. SCHNEIDER, Baltimore, Md., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Mar. 30, 1929. Serial No. 351,259. 5 Claims. (Cl. 73—51.)



5. In combination in a bristle tester, a frame, a pair of similar pointer members mounted in the frame for swinging movement with their axes of rotation in the horizontal position and in alinement with each other, gravity means for holding the two pointer members at zero position, a bar in parallel with said axes and mounted for rotary adjustment in the frame above the pointer members, and means for clamping one end of each of two bunches of bristles in the bar so that the bunches project away from the axis of the bar and the free end of one bunch is adapted to engage one pointer member and the free end of the other bunch is adapted to engage the other pointer member, said bar also being mounted for vertical adjustment in the frame.

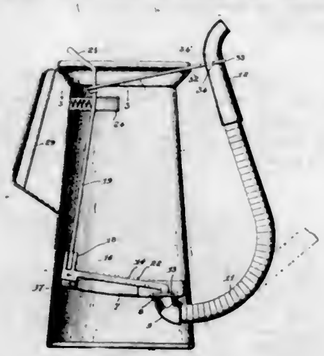
1,783,456. CORNER CLAMP. ELMER L. WILSON, Indianapolis, Ind. Filed July 14, 1928. Serial No. 292,785. 3 Claims. (Cl. 144—291.)



1. A corner clamp adapted to be applied diagonally across the intersecting extremities of re-enforcing members of a concrete column form comprising a U-shaped clamp, a pivot connecting the extremities of the U-shaped clamp, an operating member rotatably mounted on said pivot and adapted to receive a lever for rotating the operating member, and a shoe pivotally carried by the operating member and having impaling teeth for piercing the member upon which it is supported for binding the parts tightly together, substantially as set forth.

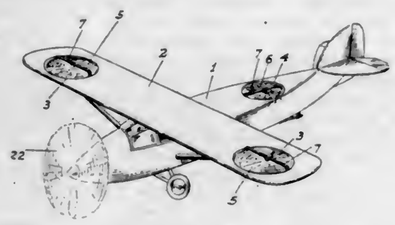
1,783,457. LIQUID MEASURING AND DISPENSING CAN. ROBERT G. WILSON, Wayne, and RONALD M. WILSON, Upper Darby, Pa., assignors to The Huffman Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Filed June 13, 1929. Serial No. 370,600. 11 Claims. (Cl. 221—16.)

1. In a liquid dispensing can provided with a flexible tube communicating with a port in the bottom of the can and a valve normally closing the port and opened by operating means at the top of the can, movable means



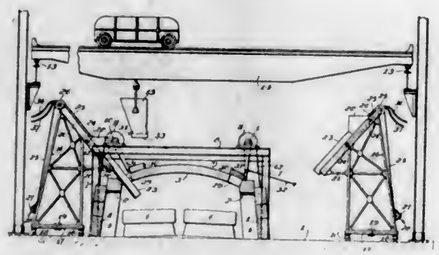
connected with said operating means for holding said tube in an upright position and available only when said valve is closed.

1,783,458. VERTICAL-LIFT AIRPLANE. GEORGE W. WINDSOR, Sacramento, Calif., assignor of one-third to Albert E. Grimm, Sacramento, Calif. Filed Feb. 25, 1929. Serial No. 342,531. 8 Claims. (Cl. 244—15.)



1. In an airplane, having openings through a wing thereof to the sides of the fuselage, and a similar opening through the fuselage rearwardly of said wing; propellers mounted within said openings on vertical axes, a common drive means for all said propellers, and a common means for altering the effectiveness of said propellers relative to the rear propeller independently or simultaneously, selectively, without altering the speed of the drive means.

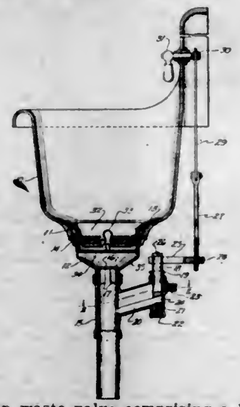
1,783,459. GLASS-POT-FILLING APPARATUS. WILLIAM E. BARNES, Tarentum, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Mar. 14, 1927. Serial No. 175,049. 2 Claims. (Cl. 214—18.)



1. The combination in apparatus for charging a glass pot furnace having a series of openings through its crown,

of a framework mounted for movement upon the floor in front of the furnace longitudinally thereof and provided with a filling means consisting of a hopper and a chute lying above the furnace and supported so that it may be moved up and down upon said framework at an inclination such that the chute will pass through any one of said openings when lowered, and means for supplying batch to said hopper, said framework being mounted for swinging movement about a vertical axis so that the angle at which the chute enters the furnace may be shifted to permit it to discharge to either one of two pots in the furnace.

1,783,460. POP-UP WASTE. FRANK G. BROTZ, Kohler, Wis., assignor to Kohler Company, Kohler, Wis., a Corporation of Wisconsin. Filed Aug. 6, 1926. Serial No. 127,635. 4 Claims. (Cl. 4—203.)



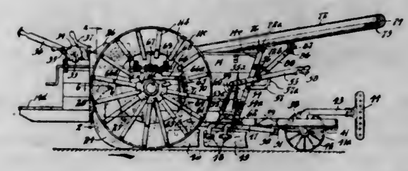
1. A pop-up waste valve comprising a housing forming spaced vertical guides with a narrow inclined connection between them, a waste plug having a tubular stem fitting in one guide of the housing and a plunger rod fitting in the other guide of the housing, a connecting rod secured to the plunger rod and engaging in an opening of the stem of the waste plug, a valve seat for the waste plug connected with the housing, and means for lifting the plunger rod to lift the waste plug, the stem of said waste plug being of sufficient length to avoid uncovering the connection between the guides in the open position of the waste plug.

1,783,461. OPTICAL INSTRUMENT. WILLIAM J. CAMERON, Chicago, Ill. Filed Dec. 28, 1927. Serial No. 243,162. 12 Claims. (Cl. 88—20.)



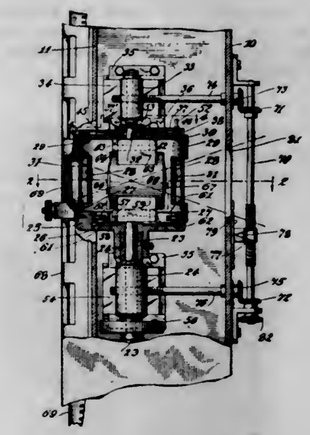
1. A device of the kind described comprising a suitable instrument having a tubular member thereon, a lens at one end of said tube, a hollow barrel coacting with the opposite open end of said tube, a stem reciprocable longitudinally in said barrel, a lamp on the end of said stem nearest said lens, means exterior to said structure for moving the stem longitudinally to vary the distance between the lamp and lens, and other means movable independently of the first means for rotating said lamp.

1,783,462. EXCAVATING, ELEVATING, AND LOADING MACHINE. HARRY K. CLEMONS, St. Paul, Minn. Filed Aug. 3, 1927. Serial No. 210,306. 9 Claims. (Cl. 37—9.)



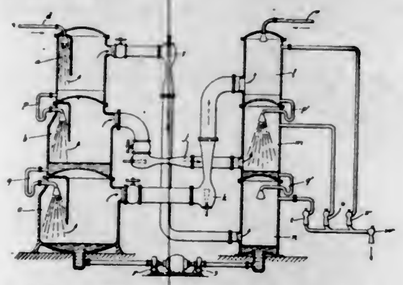
1. In a machine of the class described, a vehicle having a body adapted to be drawn along the ground, a pair of wheels supporting said body, one of said wheels being constructed and arranged to form an elevating means, an axle supported by said body to which said last mentioned wheel is secured, the other of said pair of wheels being journaled on said axle, and means for connecting and disconnecting said last mentioned wheel to said axle.

1,783,463. MOTION-PICTURE CAMERA. JOHN D. ELMS, St. George, N. Y., assignor, by mesne assignments, to Felms Revo Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 10, 1928. Serial No. 268,904. 16 Claims. (Cl. 88—16.)



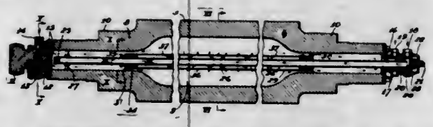
1. In a motion picture camera, in combination, a revoluble double-ended lens of non-coincident nodal points, means for revolving said lens and means for bringing each said nodal point into the axis of revolution during each revolution of said lens.

1,783,464. REFRIGERATING MACHINE. RAOUL FERDINAND FOLLAIN, Colombes, France, assignor to Société Anonyme pour l'Exploitation des Procédés Maurice Leblanc-Vickers, Paris, France. Filed June 30, 1926, Serial No. 119,599, and in France Oct. 14, 1925. 5 Claims. (Cl. 62—152.)



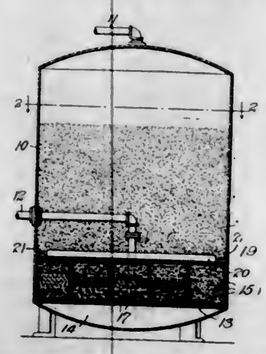
1. In a refrigeration machine, a plurality of evaporators, a plurality of superposed condensers, direct series connection of said condensers so that the condensate and cooling water will flow from one to the other by gravity, liquid seals between said connections for providing individuality of vacuum between said condensers.

1,783,465. FLUID-COOLED ROLL. JOHN H. FOX, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Sept. 30, 1927. Serial No. 223,034. 8 Claims. (Cl. 257—95.)



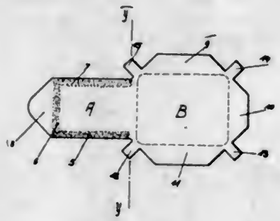
5. In combination in a roll, an outer cylindrical casing, a liquid supply tube extending through the casing and discharging through the central portion thereof, a second tube surrounding said supply tube and concentric therewith provided with a series of perforations along its central portion, means for supplying a cooling fluid under pressure to the supply tube, means for withdrawing the fluid from the ends of the casing, and means for supporting the tubes so that they are free to expand and contract independently of said casing.

1,783,466. CONSTRUCTION OF ZEOLITE WATER SOFTENERS. ROBERT O. FRIEND, Chicago, Ill. Filed June 11, 1928. Serial No. 284,631. 2 Claims. (Cl. 210—24.)



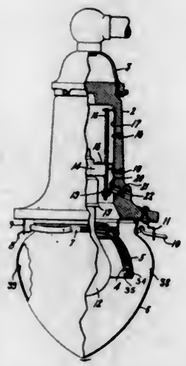
1. Means for preventing disrupting of the gravel bed in a zeolite water softener comprising: a series of relatively flat plates intersecting each other said plates being notched at the intersecting points so as to pass into each other and maintain themselves upright; and means for maintaining the series of plates in said bed comprising: a cross member arranged to rest upon the upper edges thereof.

1,783,467. X-RAY DENTAL FILM PACKAGE. PAUL GOLDACKER and MAX SCHMIDT, Dessau in Anhalt, Germany, assignors, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a Corporation of New York. Filed Sept. 24, 1926. Serial No. 137,587. 1 Claim. (Cl. 250—34.)



An X-ray dental film package comprising a film coated with silver halide emulsion, protective sheets of substantially the same size as the film and lying upon opposite sides of the film, a frame of pliable, form-retaining material lying around the edges of the film and a single wrapping sheet of material pervious to X-rays but impervious to visible light rays of greater size than the film and folded up into two portions covering the front and the rear side respectively of the assembly comprising the aforesaid elements, one of the said portions, the wrapping portion, having a protuberance at each of its four corners and margin areas projecting over the edges of the said assembly and being bent upward and inward on the latter whereas the other of the said portions being the sealing portion and having substantially the same breadth as the said assembly is bent on that side of the latter, where the margin areas of the wrapping portion have been bent on, and is attached thereto as to form a light tight envelope for the whole by strips of a suitable waterproof adhesive extending at the free margins of the said sealing portion.

1,783,468. LAMP. CROMWELL A. B. HALVORSON, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Nov. 17, 1928. Serial No. 320,139. 3 Claims. (Cl. 240—78.)



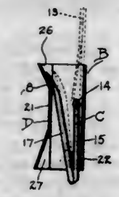
1. In a lighting unit, in combination, a light source and light diffusing elements comprising a pair of refractors and a globe, a hood for supporting said elements in proper relation, said globe enclosing said refractors, one of said refractors being located inside the other and said light source being located under said refractors, transparent means on each of said light diffusing elements on both sides of the light source, all of said transparent means being located in alinement along a given axis, one of said transparent means on each side of the light source being provided with sighting means thereon, the sighting means on each side of the light source being visible from the opposite side of the light source and from the outside of the unit through said transparent means along said line whereby the filament of the light source may be properly alined with respect to the sighting means on both sides of the light source.

1,783,469. RESILIENT DISK WHEEL. SCHUYLER C. HATFIELD, Baltimore, Md. Filed May 31, 1922, Serial No. 564,893. Renewed Apr. 24, 1930. 1 Claim. (Cl. 152—41.)



An elastic wheel consisting of a hub section and an outer section, spaced from the hub section to provide play in a radial direction, means for confining the play to a radial plane, a pneumatic pad between the sections, the outer section consisting of an inner ring having projecting lugs and a rim having inwardly projecting lugs, and a pair of annular plates, one on each side of the wheel bearing on the rim lugs and on the ring lugs and bolts passing through the lugs and through both plates parallel to the axis securing the plates to the lugs.

1,783,470. LINGERIE SUSPENDER. MARGARET L. HELMBOLD and FRANK T. O'MALLEY, St. Paul, Minn. Filed Aug. 15, 1927. Serial No. 212,890. 11 Claims. (Cl. 24—158.)



1. In an article of the class described, a clasp comprising an attaching member constructed of a single strand of wire and formed with a transverse bar, hook shanks depending from said bar and terminating in inturned crooks at their lowermost extremities, pin portions extending upwardly from said crooks, and a sheath for enveloping said attaching member, said shanks being kinked adjacent said crooks, and inwardly extending humps formed on said sheath adapted to engage the hollows formed by said kinks for holding said sheath locked upon said attaching member.

1,783,471. METHOD OF TREATING COLLOIDS. ABRAHAM M. HERBSMAN, Huntington Park, Calif. Filed Apr. 15, 1929. Serial No. 355,363. 9 Claims. (Cl. (Cl. 252—6.)

1. A process of separating a disperse chemical system into its constituent phases, which includes the step of subjecting said system to the action of rays of short wave-length.

2. A process of separating a disperse chemical system into its constituent phases, which includes the steps of: subjecting said system to the action of rays of short wave-length; and utilizing the difference in density of said phases for separating said phases.

3. A process of separating a disperse chemical system into its constituent parts, which includes the step of subjecting a stream of the substance forming said system to the action of rays of short wave-length.

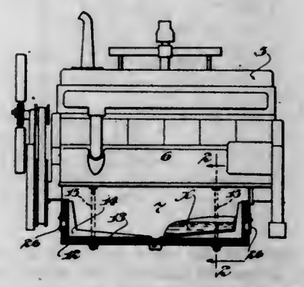
4. A process of separating a disperse chemical system into its constituent parts, which includes the steps of: subjecting a stream of the substance forming said system to the action of rays of short wave-length; removing said stream of said substance from the influence of said rays; and gravitationally separating said phases.

5. A process of separating the phases of a petroleum emulsion, which includes the steps of: subjecting said emulsion to the action of rays of short wave-length; and separating said phases.

6. The method of separating disperse systems into their component phases which comprises irradiating such systems for a substantial length of time under conditions favoring the passage of the rays through the system, the irradiating rays being of wave lengths comprised between the extremes of wave lengths of the kinds emitted from ordinary X-ray tubes, quartz mercury-vapor lamps and known radioactive elements, and then allowing the phases to separate on standing.

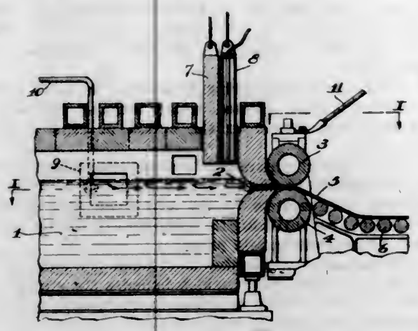
7. A method according to claim 6 in which the disperse system is an emulsion.

1,783,472. OIL-BASE INSULATING PAN FOR INTERNAL-COMBUSTION ENGINES. KARL H. HINRICHS, Winnetka, Ill. Filed Nov. 19, 1928. Serial No. 320,385. 12 Claims. (Cl. 184—104.)



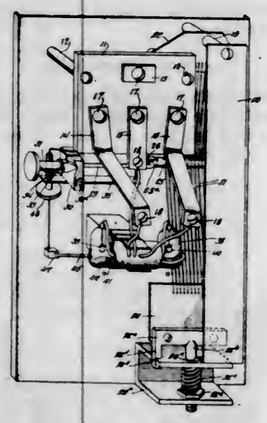
5. The combination with an internal combustion engine having an oil base, of a closed pan surrounding the sides and bottom of the oil base but spaced therefrom to afford a dead air chamber therebetween, doors for the passageways arranged to close under the action of gravity, and thermally actuated means for opening the doors and for controlling the closing thereof.

1,783,473. PROCESS AND APPARATUS FOR REGULATING THE TEMPERATURE OF GLASS WITHDRAWN FROM A TANK. HARRY F. HITNER, Oakmont, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Feb. 4, 1929. Serial No. 337,296. 2 Claims. (Cl. 49—33.)



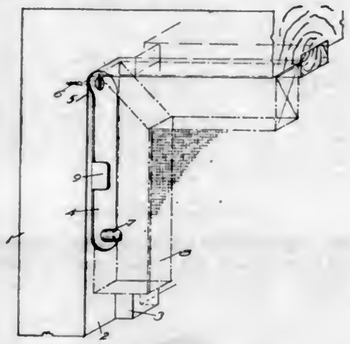
2. The combination with a tank having an outlet opening and a pair of sizing rolls in opposition to said opening, of means for heating the stream of glass passing to the rolls, comprising means for causing a flow of electric current from the rolls through the stream of glass, said means including a connection from a supply of current to the rolls, an electrode making contact with the body of molten glass in the tank, and a second connection from said supply of current to the electrode.

1,783,474. SIGN FLASHER. CLIFFORD HOTCHKISS, Milwaukee, Wis., assignor, by mesne assignments, to Time-O-Stat Controls Company, a Corporation of Maryland. Filed Nov. 4, 1925. Serial No. 66,701. 21 Claims. (Cl. 200—113.)



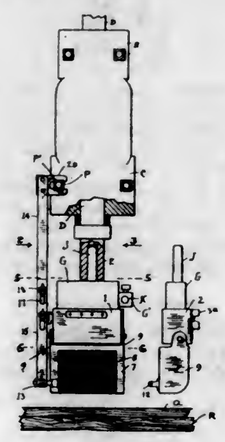
1. In a device of the class described, an electric circuit, switch means for opening and closing said circuit a predetermined number of times per minute, said means being also controlled to regulate the ratio between the open and closed periods of said circuit, thermal means for actuating said switch, the latter being biased to move upon the operation of said thermal means, means for altering the degree of said bias to vary the period of closed circuit condition as compared to the open circuit condition, and means comprising a variable spring actuator for said switch to regulate the frequency of operation thereof.

1,783,475. HINGE. THEODORE JOHNSON, Erie, and PAUL G. JOHNSON, Wesleyville, Pa., assignors to Johnson Metal Products Company, Erie, Pa., a Corporation of Pennsylvania. Filed Apr. 28, 1927. Serial No. 187,167. 4 Claims. (Cl. 16—149.)



1. A hinge comprising a resilient plate having means at one end for pivotally securing it to a support; means at the opposite end for securing it to a device to be supported, said means being sufficiently remote from each other to permit the flexing of the intervening plate to detach the plate from the device supported; and a lip at one edge adapted to overlie the face of the device supported.

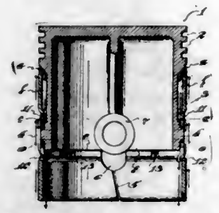
1,783,476. SAFETY ATTACHMENT FOR MACHINE TOOLS. ORMON L. KLUGH and THOMAS E. HAVERSTICK, Muncie, Ind. Filed Jan. 16, 1930. Serial No. 421,265. 3 Claims. (Cl. 144—251.)



1. An attachment for machine tools, comprising a yoke adapted to be secured to the movable head member of a machine tool, a shield member U shaped in cross section, the frontal portion thereof being of transparent material, and the sides thereof being pivotally connected at their upper portions to said yoke, and a connecting member having its lower end pivotally connected to the lower portion of the shield and its upper end being adapted to be secured to a fixed part of the machine tool.

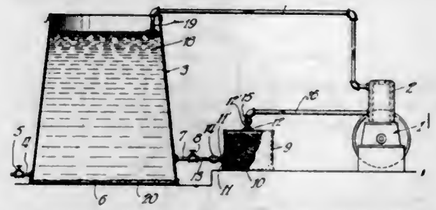
1,783,477. PISTON. SAMUEL J. MANSFIELD, Dallas, Tex. Filed Dec. 13, 1928. Serial No. 325,819. 4 Claims. (Cl. 74—108.)

1. In a piston, a head, a guide secured to the head, there being an annular space between the upper end of the guide and the head which opens outwardly, said guide having openings which communicate with the lower part of said space and having an annular space on its exterior adjacent to said openings and further having other open-



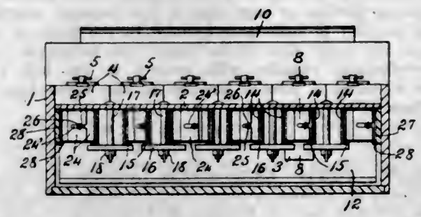
ings at the lower part of the external annular space, and fixed lips overhanging the said other openings and formed to deflect oil splashed into the piston along the interior thereof.

1,783,478. METHOD AND MEANS FOR REMOVING SCALE FROM WATER JACKETS OF INTERNAL-COMBUSTION ENGINES. WALTER N. MOORE, Kansas City, Mo., assignor to Three-M Manufacturing Company, Kansas City, Mo., a Corporation of Missouri. Filed Oct. 12, 1926. Serial No. 141,231. 6 Claims. (Cl. 123—170.)



1. A device of the character described comprising a cooling medium reservoir, a reagent container, means spaced from the bottom of said reservoir for conducting the cooling medium from said reservoir to said container, an internal combustion engine having a water jacket, means for conducting said cooling medium from the upper portion of said container directly into said water jacket to produce an upward flow thereof through said reagent and means for conducting said cooling medium from said water jacket into said reservoir.

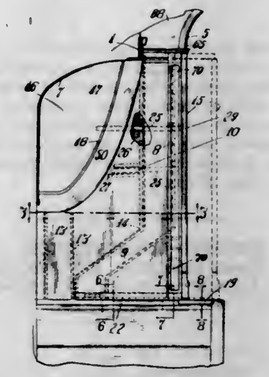
1,783,479. PACKAGE-DISPENSING MACHINE. HAROLD E. NAGLE, Kansas City, Mo. Filed Aug. 5, 1929. Serial No. 383,521. 7 Claims. (Cl. 312—67.)



1. In a package dispensing machine, a weight adapted to rest on a pile of packages for forcing the packages downwardly as they are fed one at a time from the bottom of the pile, comprising two members adjustable transversely of each other to vary the length of the weight, and means for fastening said members together in the position to which they may be adjusted.

3. In a package dispensing machine, the combination with means for supporting packages in a pile and means for ejecting the packages one at a time from the bottom of the pile, of a front package guiding member, two bolts mounted on the said front member and extending rearwardly therefrom, two side package guiding members between said bolts and adjustable one toward and from the other and bearing at their front longitudinal edges against the rear side of said front member, two clamping members respectively mounted on said bolts and respectively bearing against the rear of said side members, and two nuts mounted respectively on said bolts and bearing respectively against said clamping members.

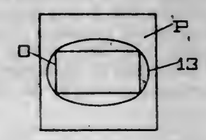
1,783,480. SLEEPING CAR. CHARLES W. PFLAGER, Evanston, Ill., assignor to The Pullman Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 26, 1927. Serial No. 221,999. 13 Claims. (Cl. 105—323.)



1. The combination with the seats and bunks of a sleeping car and the like, of a collapsible partition comprising a pair of plates spaced apart and extending upwardly from said seats, bunk supporting and latching elements mounted between said plates, a slidable extension supported by said seats and movable between said plates, and embossments formed in said plates for housing said bunk supporting and latching elements.

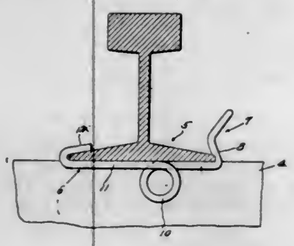
2. The combination with the transverse roof transoms and lower deck of a sleeping car, of a plurality of partitions fixed transversely of the car and severally comprising connected pairs of plates spaced apart and secured to the respective car sides and transoms, embossment plates forming bulged extensions of said partitions, and bunks secured to said partitions and disposed between respectively adjacent embossments.

1,783,481. CONDENSING LENS SYSTEM. WILBUR B. RAYTON, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Nov. 30, 1929. Serial No. 410,755. 5 Claims. (Cl. 88—24.)



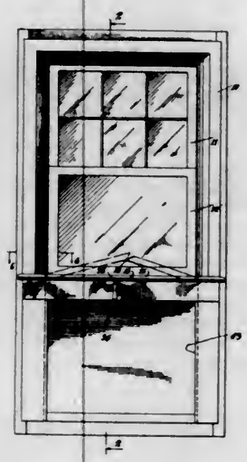
1. A condensing lens system for illuminating a relatively long, narrow aperture, said system comprising two spaced lens elements, one of said elements having an aspheric surface of revolution, the other of said elements having a cylindrical surface.

1,783,482. ANTICREEPER FOR RAILWAY RAILS. JAMES RICHARDS and NICHOLAS CORTESE, Arnold, Pa. Filed Mar. 10, 1930. Serial No. 434,703. 3 Claims. (Cl. 238—330.)



1. As a new product of manufacture, an anti-creeper of the class described comprising a substantially U-shaped member formed from a single length of sturdy wire bent between its ends to form spaced converging leg portions having spring coils intermediate their ends, and retaining means at opposite ends of said leg portions, said retaining means being detachably engaged with the edge portions of the base flange of a rail.

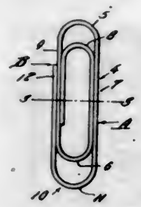
1,783,483. WINDOW CONSTRUCTION. WALTER M. RICHTER, Staten Island, N. Y. Filed Jan. 8, 1930. Serial No. 419,224. 4 Claims. (Cl. 20—52.1.)



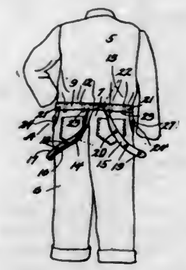
1. A window construction comprising a frame, a pit formed at the lower part thereof, window sashes adapted to be lowered into said pit, a bi-partite cover for said pit constituting the window sill, hinges connecting both parts of the cover, plates on the underside of said cover parts, a system of spring controlled locking arms normally arranged on said parts, and an operating lever to operate said arms for allowing a folding of the cover parts about their hinge.

1,783,484. PAPER CLIP. MARTIN ROSS, Evansville, Ind., assignor of one-half to Ruby Ross, Evansville, Ind. Filed Apr. 17, 1930. Serial No. 445,021. 3 Claims. (Cl. 24—261.)

1. As a new product of manufacture, a paperclip formed from a single length of wire bent upon itself to form a plurality of U-shaped portions defining distinguishable convolutions for acting in mechanical coacting relationship to provide a clip having substantially duplicate grips at its opposite ends, the convolutions of wire forming the complete clip all occupying the same normal plane, whereby to dispose the distinguishable portions of the wire in flat nested relationship.



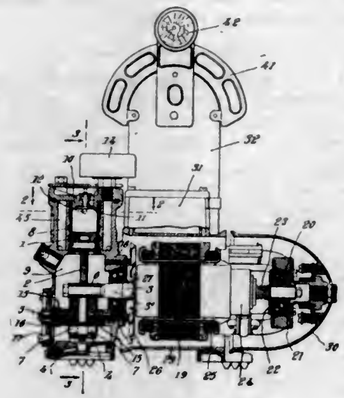
1,783,485. GARMENT. THOMAS EDWARD SHAW, Atlanta, Ga., assignor of three-fourths to The W. E. Floding Company, Atlanta, Ga. Filed May 12, 1928. Serial No. 277,253. 1 Claim. (Cl. 2—79.)



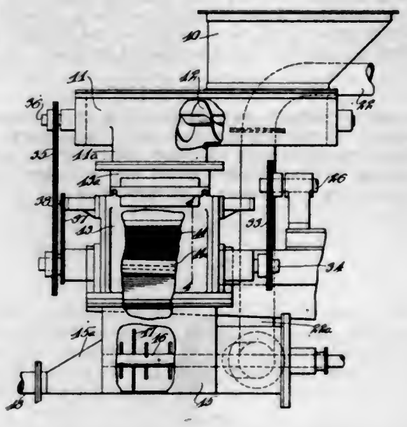
A garment comprising jacket and trousers portions united to form a one-piece garment, said trousers portion formed at the rear with a drop seat adapted for detachable connection with the jacket portion and provided along its upper edge with a series of spaced loops, a belt secured intermediate its length and centrally to the inner surface of the back portion of the jacket, the free ends adapted for insertion in said loops to effect a flexible connection between the jacket and trouser portions, and means secured to the belt adapted for engagement with means positioned at each opposite lower corner of the jacket portion at each side of the garment, whereby when the belt is adjustably secured to the body of the wearer the lower edge of the jacket will be drawn taut in overlapping relation with respect to the belt and loops to effect a smooth surface at the waist line at the back of the garment.

1,783,486. PUMP. RENÉ ALFRED LAURENT VOLET, La Vareune St. Hilaire, France. Filed Apr. 8, 1929, Serial No. 353,400, and in Belgium May 9, 1928. 1 Claim. (Cl. 172—36.)

In combination, an electric motor having a rotatable shaft and a rotor, a pinion keyed to said shaft, a pair of pinions meshing with said first named pinion and having an axis of rotation positioned below that of the motor shaft, a pitman connected eccentrically to each of said pair of second pinions said pitman presenting a bent portion adapted to clear said first named pinion, and a casing, adapted to contain lubricating fluid, extending around all of the aforesaid pinions, said casing having a wall extending between the rotor of the motor and the pinion mounted on the shaft of the latter, whereby lubricating fluid contained in said casing and immersing a portion of said pair of pinions is prevented from coming in contact with said rotor.



1,783,487. MATERIAL-TRANSFER APPARATUS. HARRY H. WEISS, Chicago, Ill. Filed Dec. 9, 1929. Serial No. 412,823. 3 Claims. (Cl. 302—36.)



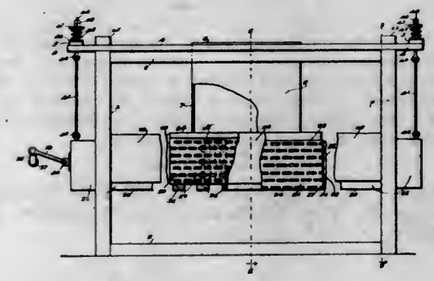
1. A remote delivery apparatus for loose material, comprising a hopper, a forward screw-feed at the bottom of the hopper, a rotary-wing downward feeder leading from the screw feed, a picker agitator below the feeder, a housing for the agitator, a blower conduit leading into the housing, and a delivery conduit leading out of the same.

1,783,488. CLOTHES DRIER. LELAND G. YOUNG, Muscatine, Iowa. Filed Dec. 27, 1929. Serial No. 416,976. 2 Claims. (Cl. 211—172.)

2. A clothes drier comprising a tubular body portion, a head at the uper end of the body portion, a disk at the lower end of the body portion, a rod connected with the head and extending through the disk, said disk having a bearing, a base having an opening to receive the bearing, a nut on the lower end of the rod for securing the head and disk to the body portion, arms extending from the upper end of the body portion, and supporting legs for the body portion.



1,783,489. PEA OR LIKE MATERIAL SPLITTING MECHANISM. JOSEPH ZEB, Spokane, Wash. Filed May 20, 1929. Serial No. 364,469. 10 Claims. (Cl. 130—30.)

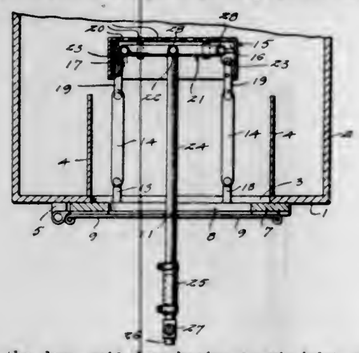


1. In a pea or like material splitting mechanism, companion members having inwardly facing splitting surfaces, an intermediate member between said companion members having outwardly facing splitting surfaces in splitting spaced relation to said inwardly facing surfaces, means for discharging material to be split into the spaces between said members, and means for causing relative and variable movement of said members to split the interposed material.

1,783,490. FURNACE-DOOR-CARRIED FUEL BURNER. GUY FRANKLIN BECKHAM and CONNIE DUNCAN MORGAN, Crosbyton, Tex. Filed Oct. 1, 1929. Serial No. 396,539. 6 Claims. (Cl. 158—7.)

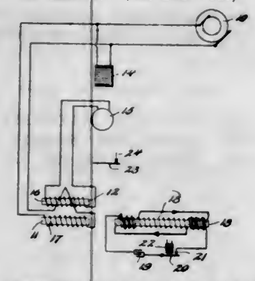
1. In a furnace structure, a fire chamber having a door opening, a door hingedly mounted before said opening, a fuel burner, supporting arms each hingedly attached to

the inner face of the door and having hinge connection with said burner, means for conducting fuel to the burner



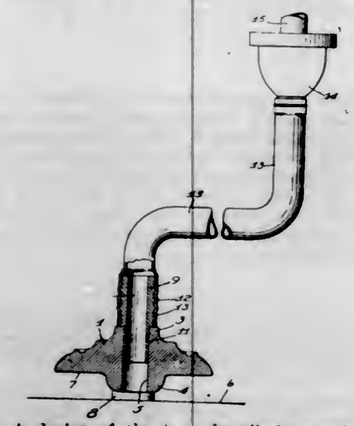
through the door, said door having an air inlet opening therethrough, and draft control doors hingedly connected to the first mentioned door for closing said opening.

1,783,491. TRAIN-CONTROL SYSTEM. THEODORE BODDE, Niagara Falls, N. Y., assignor to The Regan Safety Devices Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 30, 1926. Serial No. 145,191. 22 Claims. (Cl. 246—63.)



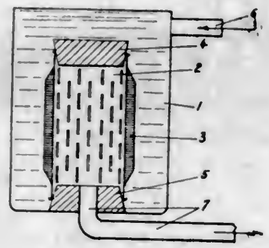
1. A roadside tripping apparatus for an induction train control system comprising an element of magnetic material, a winding on said element, a circuit devoid of an energy source of said winding, means for opening and closing said circuit, and an auxiliary compensating or shading winding on an end of said element.

1,783,492. BATH FIXTURE. GEORGE PAUL BOEHM, Chicago, Ill. Filed May 20, 1929. Serial No. 364,590. 3 Claims. (Cl. 137—111.)



1. A device of the type described comprising a body portion provided with legs, said body portion being provided with a boss upon the underneath side and an opening passing through the body portion and the boss, liquid-conveying means connected with said body portion and communicating with the opening therein, and means associated with said liquid-conveying means and adapted to be removably attached to a faucet.

1,783,493. METHOD OF WASHING YARN OR THREADS WOUND UPON SPOOLS. BENNO BORZYKOWSKI, Paris, France. Filed July 16, 1925, Serial No. 44,079, and in Germany Sept. 2, 1924. 2 Claims. (Cl. 18—54.)



2. A process for rapidly washing artificial fibers, wound upon perforated bobbins or the like and disposed in a tank, which consists in first, causing the liquid residues of the coagulating bath or the like to be drawn inwardly through the wound fibers and the perforations of the bobbins by suction produced within the bobbins; and secondly; filling the tank with washing liquid and causing the washing liquid to pass once only through the wound fibers and the perforations of the bobbins by a continuation of the suction within the bobbins.

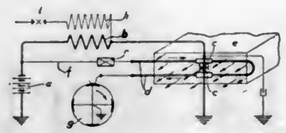
1,783,494. FISHING REEL. HALVOR S. BROADWELL and SAMUEL T. THORPE, Bristol, Conn., assignors to The Horton Manufacturing Company, Bristol, Conn., a Corporation of Connecticut. Filed Feb. 7, 1929. Serial No. 338,171. 11 Claims. (Cl. 242—84.4.)



1. In a fishing reel, a frame, a spool, a traversing shaft, a line guide carriage, a pawl in said carriage, and a retaining bar normally supporting said carriage in position with said pawl engaging said shaft, said bar being movable laterally toward and from said shaft.

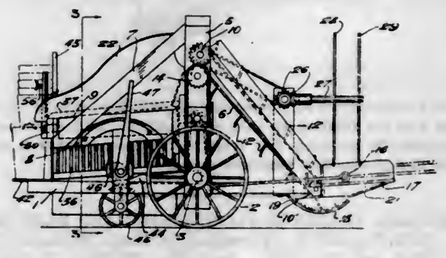
1,783,495. CIRCUIT BREAKER FOR IGNITION INSTALLATIONS OF INTERNAL-COMBUSTION ENGINES. HANS BURKAS, Tubingen, Germany, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Filed Mar. 9, 1927, Serial No. 174,080, and in Germany Apr. 19, 1926. 8 Claims. (Cl. 200—19.)

2. An electrically operated circuit-breaker for ignition installations of internal combustion engines, comprising in combination, a current-carrying conductor consisting of a wire forming a plurality of loops, two contacts attached mechanically to the two sides of said loops, and magnet



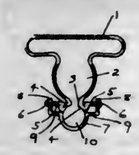
fields, the arrangement of said magnet-fields and the said loops relative to each other being such that the loops can be moved by the said field, substantially as set forth.

1,783,496. POTATO-GRADING MACHINE. JAMES D. COX, Cape May, N. J. Filed May 4, 1926. Serial No. 106,692. 6 Claims. (Cl. 209—107.)



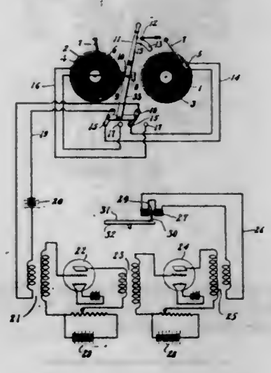
1. In a potato gathering and grading machine, a vehicle, cooperating rollers carried longitudinally thereof having their axes in a plane inclined downwardly toward the rear of said vehicle, of frusto-conical formation to form intervening spaces between the rollers diverging toward the discharge end of the rollers for passage of potatoes, means for variably adjusting the relative angularity of the axes of said rollers to increase or decrease the divergency of said passage, means for altering the inclination of their axes and means for cutting off at will at selected points the flow of potatoes over the ends of said rollers, said means including an upright support and tail gates both of which are pivoted at their adjacent ends to said upright support.

1,783,497. BUTTON LOOP. JOHN H. DOMKEE, West Haven, Conn., assignor to The Wire Novelty Manufacturing Co., West Haven, Conn., a Corporation of Connecticut. Filed Feb. 15, 1929. Serial No. 340,245. 3 Claims. (Cl. 24—224.)



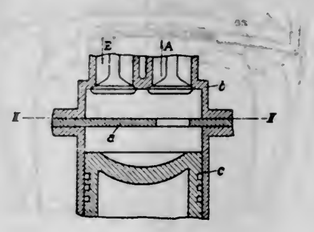
3. A two-piece button loop comprising a button receiving member having a contracted throat to which the shank of a button may be urged by expanding the loop; a second member providing the lower portion of a button retaining loop; portions provided by the lowermost parts of the button receiving member and cooperating with the lower portion of the second member to provide a button retaining member; aligned terminals provided by the first member above its lowermost parts; and means provided by the aligned terminals and the second member for pivotally assembling the members.

1,783,498. METHOD OF MAKING PHONOGRAGH RECORDS. FRANK L. DYER, New York, N. Y. Original application filed Oct. 19, 1927, Serial No. 227,191. Patent No. 1,726,546, dated Sept. 3, 1929. Divided and this application filed June 28, 1929. Serial No. 374,314. 7 Claims. (Cl. 179—100.4.)



1. The method of recording sounds of long duration which consists in making successive records, each representing a fraction of the sounds to be recorded and in electrically transferring the recorded sounds from the successive records to a micro-blank turning at slower speed than the original records, substantially as set forth.

1,783,499. INTERNAL-COMBUSTION ENGINE. HERMANN ELLERBUSCH, Dortmund-Eving, Germany. Filed Dec. 27, 1929, Serial No. 416,919, and in Germany Dec. 27, 1928. 3 Claims. (Cl. 123—191.)

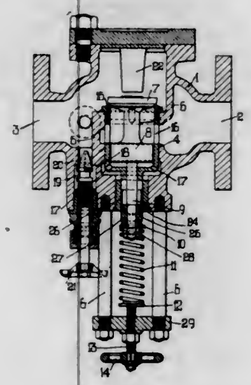


2. An internal combustion engine with a deflecting surface disposed between cylinder and cylinder head to abstract the heat to the cooling water by means of protruding plates, the deflecting surface being provided with an opening for the passage of the gas mixture.

1,783,500. PRESSURE-REDUCING VALVE. JOSEPH RILEY EYRE, Hull, England. Filed June 21, 1928, Serial No. 287,100, and in Great Britain Nov. 3, 1927. 6 Claims. (Cl. 50—35.)

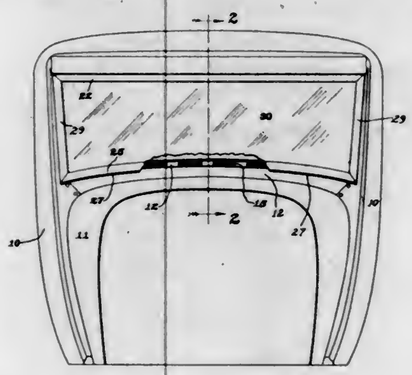
1. A pressure reducing valve consisting of a lift valve, a leaky piston, a spindle interrupted over a portion of its length on which said lift valve and leaky piston are mounted, a spring extending over said interrupted portion of said spindle, a lift valve seat, means to displace said lift valve from off its seat, an auxiliary valve and an independent control for said auxiliary valve, the desired

pressure on the working side of the reducing valve being obtained by displacement of the lift valve from off



its seat until half the desired pressure is obtained, whereupon the auxiliary valve is removed from its seat until the working pressure is reached.

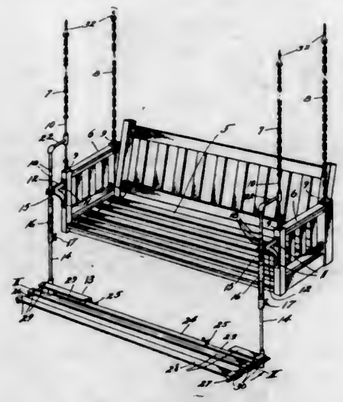
1,783,501. AUTOMOBILE VENTILATING CONSTRUCTION. HENRY FORD, Dearborn, Mich., assignor to Ford Motor Company, Dearborn, Mich., a Corporation of Delaware. Filed Nov. 26, 1928. Serial No. 321,796. 7 Claims. (Cl. 296—94.)



6. In a device of the character described, a cowl member, a windshield pivoted to swing above said cowl member, a stop member associated with said cowl against which said windshield co-acts when in its closed position, a strip arranged to deflect downwardly air entering between said stop and windshield, and telescopic members associated with said deflecting strip and windshield in position so that when the windshield is slightly opened a substantial seal will be maintained between the upper portion of the deflecting strip and the windshield for the purpose described.

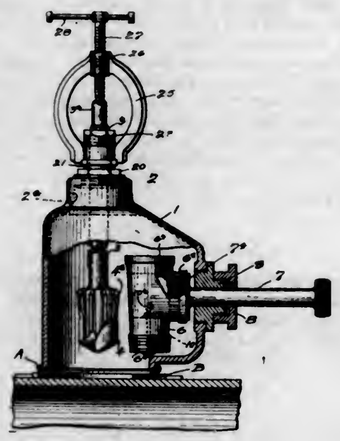
1,783,502. ATTACHMENT FOR PORCH SWINGS. WILLIAM H. FRY, Kansas City, Mo. Filed July 2, 1928. Serial No. 289,876. 1 Claim. (Cl. 155—65.)

A porch swing comprising a seat member, a front and rear pair of suspension members for said seat member, a swing propulsion foot rest pivotally carried by said seat member and having a pair of arms extending above the pivot points and engaging the front pair of suspension members and adapted to flex one pair of suspension mem-



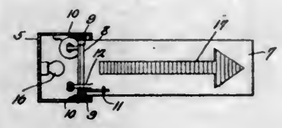
bers forwardly and rearwardly as said foot rest is moved to and fro relative to said seat member, said arms being adjustable to vary the relative movement between said flexible suspension members and foot rest.

1,783,503. COMBINED PIPE-TAPPING AND PLUG-SETTING MACHINE. FREDERICK B. HALL, Richmond, Va. Filed Oct. 14, 1929. Serial No. 399,599. 3 Claims. (Cl. 77—39.)



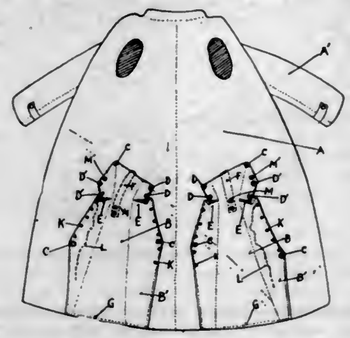
1. In an enclosed drill tap and fixture setting device for pipes and mains, a casing, a plug threaded into one side of the casing, a rod having a threaded head for engaging a side of the fixture, the rod passing through said plug, a combined drill and tap having a shank passing through the casing wall, both the drill tap and fixture carrying rod operable exteriorally of the casing and being movable in intersecting paths, the combined drill and tap being adapted to drill and tap an aperture in the main for inserting therein an externally threaded end of the fixture, and further so arranged as to engage an internally threaded portion of the fixture for operatively inserting said externally threaded end into the main.

1,783,504. SIGNAL. JOSEPH B. HAMILTON, South Pasadena, Calif. Filed Jan. 10, 1928. Serial No. 245,764. 2 Claims. (Cl. 177—339.)



1. In a signaling device, a body portion having an open side, a pair of aligned side members normally closing the open side, means for pivotally connecting the inner ends of the side members to the body portion, said side members having cut out portions defining arrows pointing in a common direction, and means for operating the side members to move them to their indicating positions.

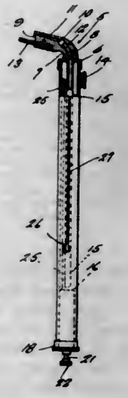
1,783,505. WEARING APPAREL. JAMES J. HAYES, Louisville, Ky. Filed Apr. 13, 1927. Serial No. 183,538. 2 Claims. (Cl. 2—86.)



1. Wearing apparel consisting of the combination of a weather coat extending below the knee of the wearer and gaiter-like extension parts each fastened in a straight attachment line on either side along the bottom inside of said coat and adapted when fastened up inside said coat to be spread out fully for invisible carriage, right angular vamp-peaks on the gaiter parts, means for spreading said gaiter-like extension parts out at full length and width and fastening them up inside the coat consisting of means for detachably fastening the apices of the rectangular vamp-peaks uppermost vertically above said attachment lines to prevent the appearance of side-sagging in the skirt of the coat, said arrangement being adapted to allow the outer edges of said gaiter-like extension parts to rest fixed at acute angles with natural vertical undulations of said coat while on the wearer, as desired.

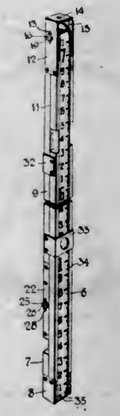
1,783,506. GLASS-CLEANING DEVICE. THOMAS C. HOMILLER, Washington, D. C. Filed Nov. 14, 1929. Serial No. 407,230. 4 Claims. (Cl. 15—126.)

1. In a cleaning device of the class described, an apertured delivering and distributing head, and a hollow elongated handle carried by said head, said handle being a water container communicating with said head having a force feed means including an air passage incorporated in



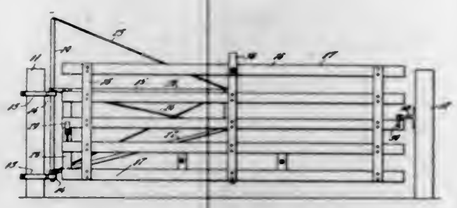
its lower end to eject the water, a regulating valve in said head, and an operating lever on said handle and an operating connection between said lever and valve.

1,783,507. SURVEYOR'S ROD. ROBERT E. KAPPS, Troy, N. Y., assignor to W. & L. E. Gurley, Troy, N. Y., a Corporation of New York. Filed June 1, 1929. Serial No. 367,719. 9 Claims. (Cl. 33—74.)



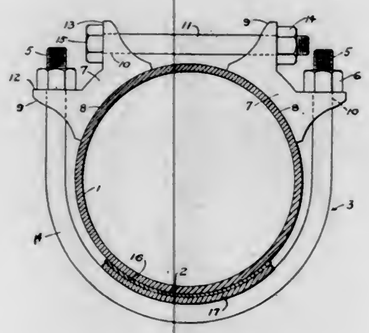
1. A surveyor's rod of the extensible type, comprising in combination, an extensible frame structure including two members, one longitudinally slidable on the other; a pair of guide pulleys mounted on one of said members adjacent the ends thereof; a tape connected at its ends with the other member and free of connection with said frame structure intermediate said points of connection, said tape extending from one point of connection over the entire length of the front face of said frame structure, thence around one pulley, thence along the back of the frame structure to and around the other pulley to the other point of connection; and means for placing said tape under substantially constant tensile stress.

1,783,508. FARM GATE. TROY J. KNIGHT, Golden, Ill. Filed Apr. 15, 1930. Serial No. 444,470. 2 Claims. (Cl. 39—11.)



1. In a structure of the class described, in combination, a fixedly mounted post, hinge means on said post, a swingable frame embodying a vertical standard pivotally connected with the hinge means, a pair of upper and lower spaced rails and bracing means, said rails terminating in vertically spaced bearings at their free swingable ends, a pair of complemental struts fastened to opposite sides of the frame adjacent the hinge connection, adjustable retaining keepers associated with said struts, a gate having a central spindle mounted in said bearings, said gate being swingable into overlapping relationship with either side of the frame and said keepers functioning to hold the gate in either of these positions.

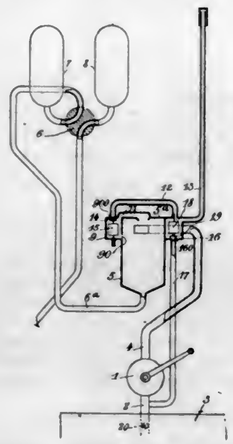
1,783,509. PIPE CLAMP. WILLIAM EDWARD LAHEY, Lima, Ohio. Filed June 3, 1927. Serial No. 196,233. 14 Claims. (Cl. 137—99.)



1. A clamp comprising a U-shaped member adapted to embrace a pipe and hold leak-stopping means thereagainst, blocks with perforated ears receiving the ends of said member, a connecting bolt extending in the plane of the U-shaped member through other perforated ears on said blocks, the ends of said bolt and member being threadably engaged by nuts for tightly pressing the leak-stopping means against said pipe.

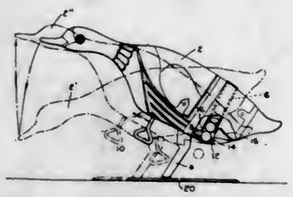
1,783,510. LIQUID-MEASURING APPARATUS. ALFRED LANSER, Corseaux-Vevey, Switzerland. Filed Nov. 16, 1928, Serial No. 319,759, and in France Nov. 2, 1928. 4 Claims. (Cl. 183—2.5.)

4. An apparatus of the class described comprising a supply reservoir, a gas and liquid separator having a gas discharge port and a liquid discharge port, means for passing the liquid from the supply reservoir to said gas and liquid separator, a stand pipe for separating the liquid from the gas passing through said gas discharge port, said



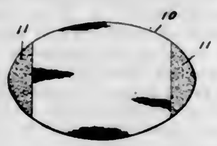
pipe communicating with the latter and with the atmosphere, and a liquid recovery chamber communicating with said pipe.

1,783,511. TOY. LOUIS MARX, New York, N. Y. Filed Mar. 15, 1929. Serial No. 347,385. 16 Claims. (Cl. 46—40.)



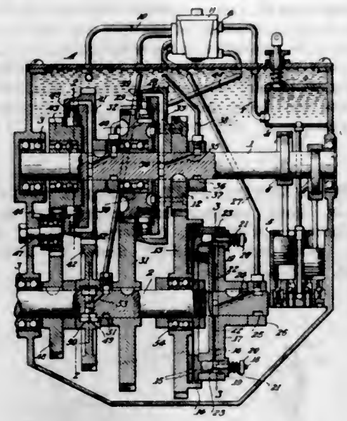
1. A readily movable toy fowl comprising a storage magazine for holding toy eggs, a spring driven motor in said fowl, and means driven thereby for causing the successive and single ejection of the eggs from the magazine at spaced intervals of time, in representation of the laying of eggs by the fowl.

1,783,512. PROTECTOR. MILDRED C. MATHER, Minneapolis, Minn. Filed July 14, 1928. Serial No. 292,807. 2 Claims. (Cl. 2—42.)



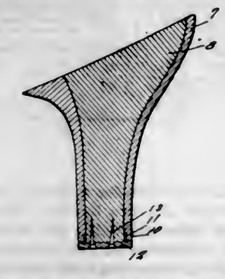
2. A breast covering comprising a thin fabric sheet of general oblong shape and adapted to extend over the nipple of the breast and portions at opposite sides thereof, adhesive material only adjacent the ends of said sheet for engaging the skin at each side of the nipple to hold the device in place, the portion over the nipple being free of adhesive and adapted to hold the end of the nipple in the line of a circle touching the breast at each side thereof.

1,783,513. TRANSMISSION. DONALD D. MAURER, Walnut Creek, Calif. Filed Sept. 6, 1929. Serial No. 390,801. 1 Claim. (Cl. 74—59.)



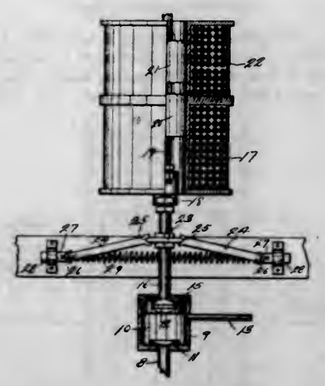
A transmission of the class described comprising a drive shaft, a driven shaft, a small gear keyed to the drive shaft, a large gear rotatably arranged on the driven shaft and meshing with the small gear, fluid operated means for connecting the rotatably arranged gear with its shaft, such means including clutch disks, a second gear keyed to the driven shaft, a gear rotatably arranged on the drive shaft and meshing therewith, a piston carrying member connected with the first gear on the drive shaft and the rotatably arranged gear on the drive shaft having recesses in a part thereof for receiving the pistons, fluid pressure means for causing the pistons to engage the recesses to lock the two gears together, a second piston carrying member keyed to the drive shaft and having teeth thereon, a gear rotatably arranged on the driven shaft and having its teeth meshing with the teeth on said member, fluid pressure means for connecting the last mentioned gear on the driven shaft with said shaft, a gear rotatably arranged on the drive shaft and having a part thereof frictionally receiving the pistons of the toothed member, fluid pressure means for causing said pistons to engage said part, a reverse gear keyed on the driven shaft and an idler gear meshing therewith and with the gear associated with the toothed member on the drive shaft.

1,783,514. HEEL STRUCTURE FOR SHOES. ELMER MILLER, Boonton, N. J. Filed Sept. 7, 1929. Serial No. 390,960. 3 Claims. (Cl. 36—34.)



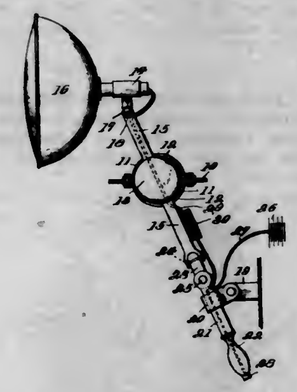
1. A heel structure for shoes comprising an outer shell, a core within said shell, said shell and core adapted for attachment with a shoe at the upper ends, a rim disposed over the lower edges of the shell, an upstanding flange on the rim disposed between the lower side margins of the shell and the core, and a tread disposed over the core and the flange.

1,783,515. VALVE ACTUATION FOR A BURGLAR-REPELLING DEVICE. HARRY W. MONTGOMERY, Omaha, Nebr. Filed May 18, 1927. Serial No. 192,355. 1 Claim. (Cl. 137—139.)



A valve actuating mechanism comprising a valve stem, means for reciprocating the valve stem, a valve carried by the stem and cooperating with a valve seat when moved in one direction, means for limiting the movement of the valve in the other direction, said mechanism also including axially disposed slide bars at opposite sides of the valve stem and at a right angle thereto, arms hingedly connected to the slide bars and extending inwardly, a round disc carried by the valve stem, bifurcations in the inner ends of the arms and in which the disc engages and a contractible coiled spring connecting the slide bars.

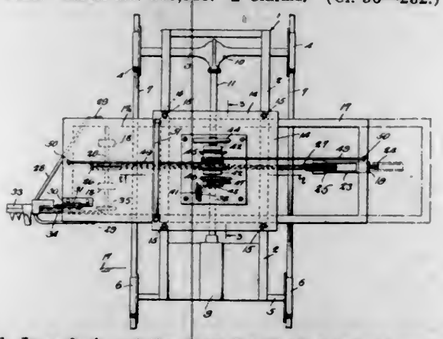
1,783,516. SPOTLIGHT ATTACHMENT. HENRY H. MORETON, Stony Point, N. Y. Filed Jan. 10, 1928. Serial No. 245,696. 4 Claims. (Cl. 240—61.)



1. A spotlight attachment comprising a movable joint member, a lamp supporting rod projecting therefrom in one direction and an operating member projecting from said universal joint member in an approximately opposite direction, a normally fixed support having a seat complemental to said movable joint member and cooperating therewith to provide a universal joint member so that said lamp supporting rod and said operating member are capable of simultaneous and corresponding angular and rotative adjustments, a handle and a joint member pivotally connected with said handle and said operating mem-

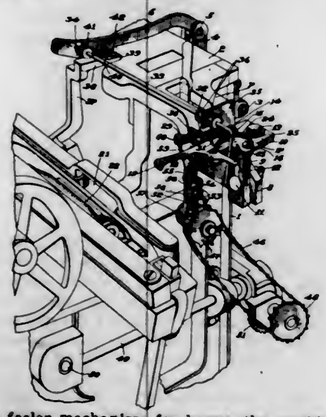
ber respectively on axes at right angles to each other, so that angular movements may be imparted to said operating rod by rectilinear movements imparted to the handle and relative rotation of the handle and said operating rod is prevented.

1,783,517. RAILROAD MOWING MACHINE. CARL MORRIS and WILLIAM H. BUCK, Thornton, Iowa, assignors of one-third to Orie Infelt, Thornton, Iowa. Filed Oct. 18, 1928. Serial No. 313,343. 2 Claims. (Cl. 56—232.)



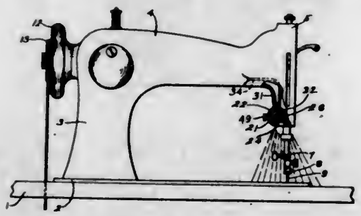
1. In a device of the class described, a vehicle including a main frame, a main platform disposed above the main frame, and connections between the main frame and the main platform; a rectangular frame slidable between the main frame and the main platform and held by contact therewith, against vertical tilting movement, the rectangular frame being slidable between the connections and being held by contact therewith against horizontal swinging movement, means for mounting the vehicle for movement along a railroad track, a shaft journaled on the rectangular frame, at one end thereof, outwardly of one side of the track, a tightener carried by the opposite end of the rectangular frame, outwardly of the opposite side of the track, sprocket wheels on the shaft and on the tightener, a sprocket chain engaging the sprocket wheels, means for driving the sprocket chain, mechanism on the first specified end of the rectangular frame for working on the right of way at the first specified side of the track, and means for connecting said mechanism operatively with the shaft.

1,783,518. FEELER MECHANISM FOR LOOMS. PATRICK F. O'BRIEN, Franklin, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Nov. 26, 1929. Serial No. 409,969. 10 Claims. (Cl. 139—270.)



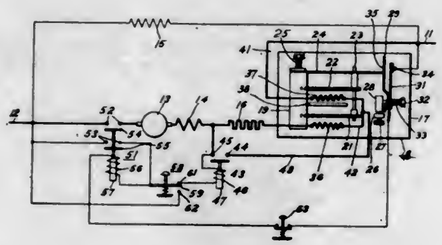
1. In a feeler mechanism for looms, the combination of a feeler stand, a side slipping filling feeler having at its front portion a laterally extending portion, a link pivotally mounted on the feeler stand at one side of the longitudinal axis of the feeler and pivotally connected to the laterally extending portion of the feeler at the other side of its longitudinal axis, a spring connected to the feeler between the pivotal points of the link and exerting a rearward pull upon the feeler to move both the link and feeler to rearward feeling position and swing the feeler laterally about its pivotal connection with the link, and a stop to prevent the feeler being moved laterally beyond its feeling position by the spring.

1,783,519. LIGHTING UNIT. LEWIS C. PACKER, Long Meadow, Mass., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 11, 1929. Serial No. 354,287. 2 Claims. (Cl. 240—2.)



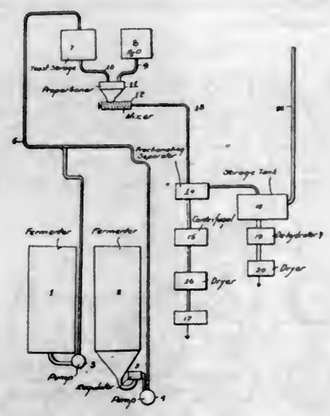
1. The combination with a sewing-machine goose neck including a horizontal arm and a sewing head disposed to provide a laterally extending recess at its lower portion and the lower wall of the head being further disposed to provide an opening communicating between the recess and the outside of the head, and a lighting unit disposed within the recess and a removable cap at one end of the recess in the wall of the head to permit insertion of the lighting unit.

1,783,520. THERMAL CONTROL SYSTEM. GEORGE C. PEARCE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 6, 1928. Serial No. 310,713. 1 Claim. (Cl. 172—288.)



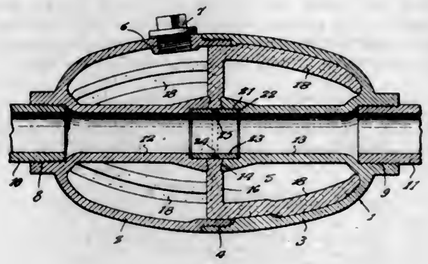
A thermal control system for a motor circuit including a starting resistance and two heating elements in series circuit with each other and with the motor, an electromagnetic circuit controller for the motor circuit, means for short circuiting the starting resistance and one of said heating elements and an auxiliary normally-closed switch for controlling the electromagnetic circuit controller, a pair of thermally-actuable elements individually energized by the two heating elements for causing opening of the auxiliary switch under predetermined abnormal conditions during starting and during running of the motor respectively.

1,783,521. PURIFYING YEAST. GUSTAVE T. REICH, Drexel Hill, Pa. Filed Mar. 8, 1929. Serial No. 345,277. 25 Claims. (Cl. 195—20.)



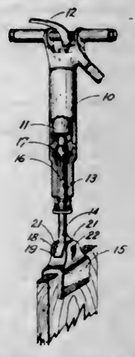
9. The art of refining yeast that had been contaminated by its use in producing the fermentation of saccharine materials, comprising diluting this contaminated yeast, separating the same by sedimentation into an upper portion containing yeast of higher protein value and a lower portion containing yeast of a lower protein value and also the impurities collected in the contaminated yeast during said fermentation, and separately collecting and de-hydrating said portions.

1,783,522. AIR-LINE OILER. JOHN E. RENFER, Cleveland, Ohio, assignor to The Cleveland Rock Drill Company, Cleveland, Ohio. Filed Dec. 14, 1928. Serial No. 326,059. 8 Claims. (Cl. 184—55.)



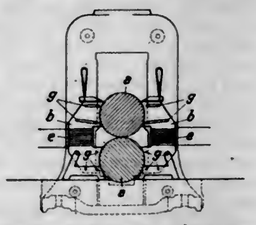
3. An air line oiler comprising a casing constituting a reservoir, tubes extending from the ends of the reservoir for passage of pressure fluid through the reservoir, the opposed ends of said tubes having annular recesses therein, a sleeve having its ends fitted in the recesses, said sleeve having an annular groove formed therein and a port communicating with the groove, and a fabric body engaged between the tubes and surrounding the sleeve for conducting oil, by capillary attraction from the reservoir to the port for discharge into the sleeve.

1,783,523. PILE-DRIVING TOOL. LED L. RICHARDSON, Cleveland, Ohio, assignor to The Cleveland Rock Drill Company. Filed Oct. 26, 1928. Serial No. 315,215. 4 Claims. (Cl. 61—76.)



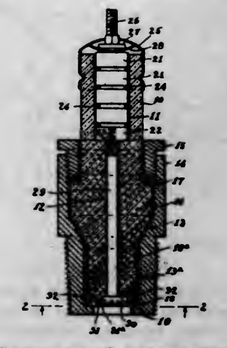
1. A pile driving tool comprising an arm and an anvil, an arcuate bearing face in said arm and a complemental bearing seat in said anvil and pivotal means co-ordinated with said arm and anvil to permit the engagement of the said bearing face with the said bearing seat.

1,783,524. METHOD OF HEATING ROLLS. WILHELM SCHÖTTELDREIER, Nachrodt in Westfalen, Germany, assignor to Vereinigte Stahlwerke A. G. Dusseldorf, a Firm. Filed Aug. 5, 1927, Serial No. 210,884, and in Germany Aug. 7, 1926. 3 Claims. (Cl. 80—41.)



1. An apparatus for pre-heating the rolls of a sheet rolling mill, comprising U-shaped electro-magnets extending on opposites of said rolls, having the opposite poles of the same magnet adjacent different rolls so that on opposite sides of each roll is a pole of different character in a different magnet.

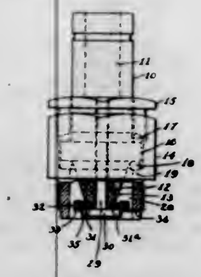
1,783,525. ANTIFOULING SPARK PLUG. PATTERSON O. STEWART, New York, N. Y. Filed Dec. 6, 1926. Serial No. 152,925. 3 Claims. (Cl. 123—169.)



1. In combination, a body of insulating material having an axial bore therethrough enlarged at its upper portion

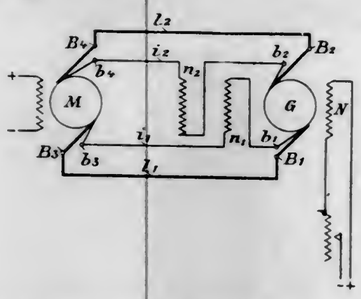
to form a chamber; a frequency changer comprising spaced metallic disks disposed in said chamber, a terminal stem connected to the topmost disk; an electrode stem in said bore connected to the lower disk and provided at its outer end with a disk shaped sparking electrode head formed with an annular sparking part spaced from said insulator; and an electrode co-operating with said part to form a spark gap.

1,783,526. SPARK PLUG. PATTERSON O. STEWART, New York, N. Y. Filed Jan. 18, 1930. Serial No. 421,745. 2 Claims. (Cl. 123—169.)



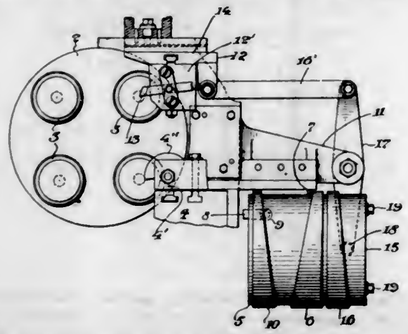
1. In combination, an insulator, an electrode stem in said insulator, provided at its outer end with a circular electrode head, having thereon an outer circular sparking edge, spaced from said insulator and of greater diameter than the inner edge of the head, and an annular metal ferrule at the lower end of said insulator and spaced from the periphery of said head, said ferrule having thereon an annular electrode portion, having its outer edge in the plane of said sparking edge to form therewith an annular sparking gap the distance between said electrode portion and head being minutely greater at the edge of said head, adjacent to the insulator, than at said sparking edge; whereby said electrodes when in use are separated by a very narrow annular space, which is at all parts only minutely wider than the sparking width at the lower end thereof.

1,783,527. COMPENSATOR FOR BRUSH-RESISTANCE VOLTAGE DROP IN MOTOR-CONTROL SYSTEMS. HERMANN SUNDHAUSSEN, Dusseldorf-Rath, Germany, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Filed Apr. 5, 1928, Serial No. 267,534, and in Germany Apr. 12, 1927. 2 Claims. (Cl. 172—239.)



1. In an electric plant a generator and a continuous current motor adapted to be driven by it according to the Ward Leonard system, auxiliary regulating circuits between the terminals of said generator and said motor, said circuits including auxiliary brushes on the commutators of said generator and said motor, the brushes of like polarity being connected to the same auxiliary regulating circuit while brushes of opposite polarity are connected with different auxiliary regulating circuits, and means included in said auxiliary circuits for regulating the voltage supplied to said motor in accordance with the varying brush contact resistances of both the said motor and said generator.

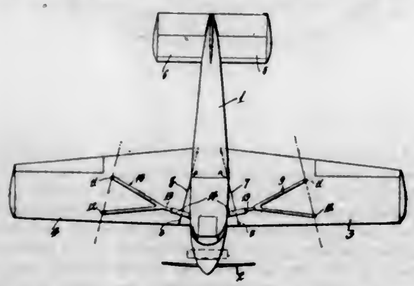
1,783,528. CROSS-TOOL SLIDE FOR MULTIPLE-SPINDLE AUTOMATIC SCREW MACHINES. OLOF ENOCH TROBECK, Berlin, Germany, assignor to The National Acme Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 21, 1928, Serial No. 294,355, and in Germany Apr. 30, 1928. 17 Claims. (Cl. 29—37.)



1. In an automatic multiple spindle screw machine having a work carrier provided with a plurality of work spindles and a sliding tool carrier relatively indexable and reciprocal, the combination of a sliding bottom cross tool slide, a sliding top cross tool slide supported independently of said bottom slide, and cam means located transversely of the machine for shifting both of said slides independently of each other.

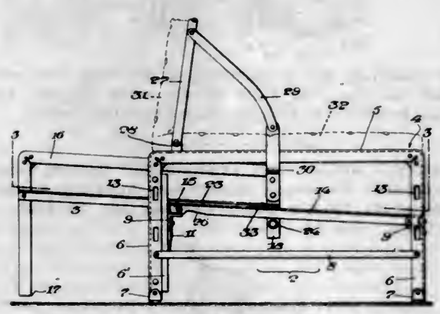
7. In a metal working machine having a work spindle housing, the combination of a pair of cross tool slides located one above the other for shiftable movement in a horizontal plane toward and from the work, a bracket bolted to the side of the work spindle housing for suspending the upper slide and extending laterally of the machine, a cam drum located transversely of the machine under said bracket and having cams thereon for shifting both of said slides, an arm pivoted to said bracket with its lower end in position to engage some of said cams, and a link connecting the upper end of said arm with the upper slide for shifting it independently of the lower slide.

1,783,529. AEROPLANE CONTROL. WALDO D. WATERMAN, Santa Monica Canyon, Calif. Filed Oct. 13, 1928. Serial No. 312,242. 7 Claims. (Cl. 244—29.)



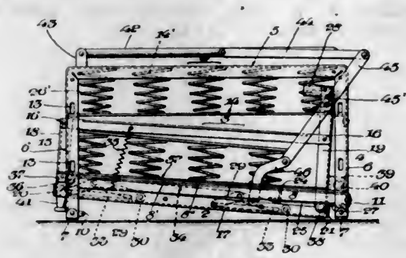
1. In an aeroplane, the combination of a body, wings, means for pivotally connecting the wings to the body at an angle to the line of flight of the aeroplane, means interconnecting the said wings so that a change in position of one wing automatically brings about a corresponding change in the position of the opposed wing in the opposed direction, and a landing gear connected to said wings so that upon landing the positions of said wings will be automatically changed to reduce the lifting qualities of said wings.

1,783,530. SLIDING COUCH. PERCIVAL P. BERRY, Hyde Park, Boston, Mass., assignor to Englander Spring Bed Company, New York, N. Y., a Corporation of New York. Filed Feb. 14, 1929. Serial No. 339,820. 5 Claims. (Cl. 5—18.)



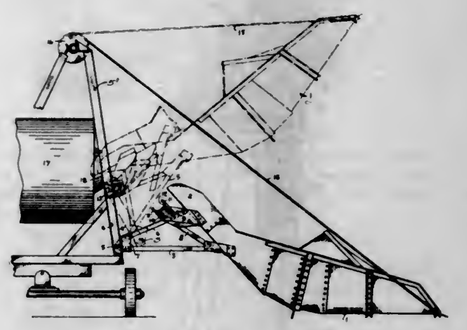
1. In a sliding couch bed, the combination of a pair of bed sections, one sliding relatively to the other and each having co-operating track bars and rolls, one carried by each section, the track bars of the main section having inclination in the direction of their length and provided with notches at their forward ends, whereby the sliding section is maintained away from the floor during the sliding movement and permitted to engage the floor when the bed is fully extended, rolls of the sliding section entering the notches of said inclined track bar thereby to permit the sliding section to swing downward to engage the floor.

1,783,531. SLIDING SPIRAL-SPRING BED. PERCIVAL P. BERRY, Hyde Park, Mass., assignor to Englander Spring Bed Company, New York, N. Y., a Corporation of New York. Filed Feb. 27, 1929. Serial No. 343,201. 7 Claims. (Cl. 5—21.)



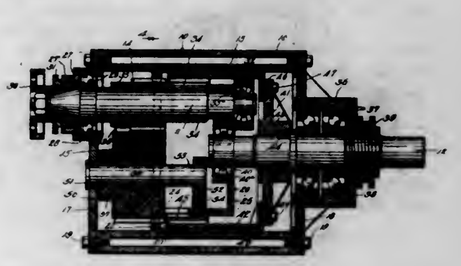
1. In a sliding couch bed, the combination of a main section, a sliding section, and a spring-supporting frame carried by said sliding section and shiftable relatively thereto, and means carried by said sections for maintaining the sliding section off the floor during the sliding movement thereof and effective to permit the sliding section to engage the floor when it is fully extended, said means including a pair of tracks carried by the sections and inclined in opposite directions.

1,783,532. LOADING DEVICE FOR CONCRETE MIXERS. JAMES E. BUSHNELL, North Plainfield, N. J., assignor to Ransome Concrete Machinery Company, Plainfield, N. J., a Corporation of New Jersey. Filed Mar. 16, 1927. Serial No. 175,653. 4 Claims. (Cl. 214—130.)



4. The combination with a frame and a charging hopper having upper and lower pivots for swinging said hopper about plural axes, of a member movable with said hopper for engaging said upper pivot, and a resilient element for said upper pivot and the hopper, said element being positioned for cooperating with said member substantially along the discharging axis of said hopper.

1,783,533. POWER TRANSMISSION. SAMUEL C. CARTER, Los Angeles, Calif., assignor of thirty-five per cent to Robert F. Belcher, Los Angeles, Calif., twenty per cent to William H. Maxwell, Beverly Hills, Calif., and ten per cent to D. M. Callis, Long Beach, Calif. Continuation of application Serial No. 350,273, filed Mar. 27, 1929. This application filed Jan. 29, 1930. Serial No. 424,335. 14 Claims. (Cl. 74—58.)

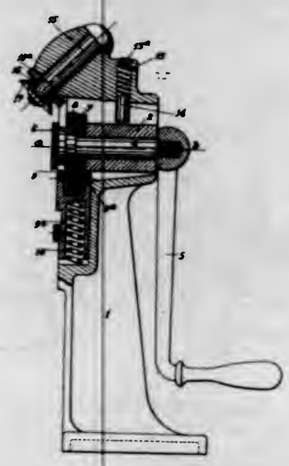


1. A power transmission including, a drive shaft having a fixed axis, a driven shaft having a fixed axis, an internal driven gear on the driven shaft, a drive gear slidably mounted on the drive shaft adapted to be shifted into engagement with the driven gear, and a shiftably mounted reversing gear adapted to be shifted into engagement with the driven gear, the drive gear being operable to a position where it is free of the driven gear and engages the reversing gear when the reversing gear is in engagement with the driven gear, the drive shaft terminating within the driven gear.

1,783,534. MACHINE FOR OPENING TINS OF CANNED GOODS. ETIENNE DARQUÉ, Clichy, France. Filed May 21, 1928, Serial No. 279,312, and in France June 1, 1927. 12 Claims. (Cl. 30—3.)

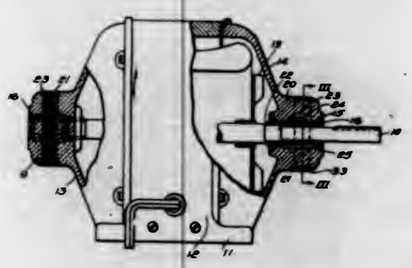
1. In a can-opening machine, a first rotatable gripping roller, a second rotatable gripping roller resiliently

mounted, said first and second rollers being adapted to coact with one another so as to grip the edge of a can, cutting means positioned adjacent one of said rollers



and adapted to cut into the surface of a can held between said rollers, said cutting means and rollers having a fixed relative position laterally of each other and means for rotating one of said rollers.

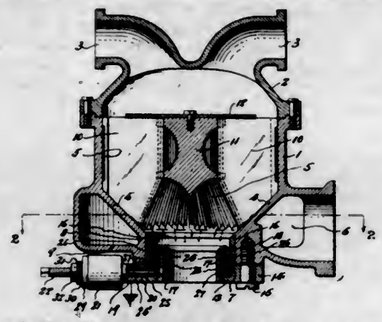
1,783,535. LUBRICATING DEVICE. RALPH EHRENFELD, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 5, 1929. Serial No. 330,569. 8 Claims. (Cl. 308—125.)



1. In an oiling means for a shaft bearing comprising a bearing housing having a shaft opening therein, in combination, an opening extending through the housing and communicating with the shaft opening, an oil-retaining wick in said last named opening, means at each end of said last named opening for sealing it and other means for protecting the sealing means against mechanical injury.

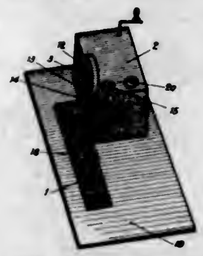
1,783,536. AUXILIARY HEATER AND VAPORIZER. ERNEST R. GODWARD, New York, N. Y., assignor to The Eclipse Petrol Economiser System Company, Limited, Christchurch, New Zealand, a Corporation of New Zealand. Filed Mar. 22, 1929. Serial No. 349,234. 4 Claims. (Cl. 48—180.)

3. A combined catch-chamber and heater coil for disposition contiguous to the walls of a fuel mixture passage serving to deliver a carbureted fuel to a place of use, comprising an upwardly open annular cup aligned with the passage walls, to catch wet fuel gravitating on said walls, an electric heater coil within said cup, means



for insulating the convolutions of said coil from each other and from the walls of said catch chamber, and means to connect said heater coil in an electric circuit.

1,783,537. MUSIC TIME INDICATOR. MAURITS JONAS GOUDSMIT, The Hague, Netherlands. Filed Aug. 2, 1928, Serial No. 296,972, and in Germany Apr. 10, 1928. 8 Claims. (Cl. 84—484.)



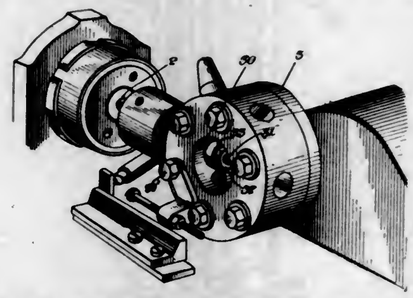
5. A musical time-indicator comprising, in combination, means for imparting accenting impulses to the person, including a plurality of members respectively provided with a selected number of accenting elements, a pulsating member cooperating with said accenting elements, and means for timing the accenting impulses, including a scale, and a pointer adjustable over said scale and operatively connected with said laterally movable members.

1,783,538. OVERALLS. JOSEPH HERSKOWITZ, Woodhaven, N. Y., assignor to Adolf Herskowitz & Son, Inc., Brooklyn, N. Y. Filed June 21, 1929. Serial No. 372,678. 1 Claim. (Cl. 2—79.)



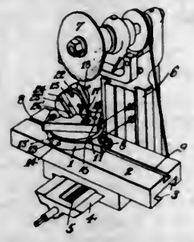
A garment of the class described comprising an upper body portion, bottom leg portions, a semi-circular drop seat and a slide fastener for closing said drop seat extending from side to side, the peak of the drop seat being on a line with the waist line of the garment.

1,783,539. THREADING DIE. WILLIAM J. HOGG, Cleveland, Ohio, assignor to The National Acme Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 20, 1928. Serial No. 263,013. 2 Claims. (Cl. 10—89.)



1. In a metal working machine, the combination of a tool turret having a centrally-located bore and a radial opening communicating with said bore, a threading die having an adjustable shank located in said radial opening with the end thereof projecting into said central bore, said shank comprising a reduced portion forming a shoulder, a bushing fitting the reduced portion of the shank with the inner end terminating at and in position to engage the shank shoulder, means located at the end of the shank and accessible through the central bore of the turret for adjusting the shank, means between said last means and bushing whereby one part of the shank has a floating movement relative to the other, means carried by the turret for clamping the bushing of the shank in the turret, and said bushing and shank having means for preventing the rotation of one relatively to the other.

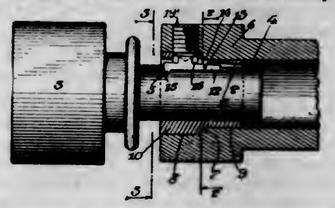
1,783,540. DIE-CHASER-GRINDING FIXTURE. WILLIAM J. HOGG and FREDERICK NEUMANN, Cleveland, Ohio, assignors to The National Acme Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 7, 1928. Serial No. 245,098. 20 Claims. (Cl. 51—218.)



1. A universally adjustable grinding fixture for grinding die chasers or cutters comprising a chaser holder having a pair of chaser-holding recesses located in transverse faces of the holder and both extending in the same direction and pivotally supported for indexable movement in a vertical plane and for indexable movement in a horizontal plane.

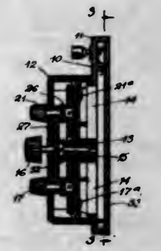
1,783,541. TOOL HOLDER. WILLIAM J. HOGG and FREDERICK NEUMANN, Cleveland, Ohio, assignors to The National Acme Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 28, 1928. Serial No. 273,516. 10 Claims. (Cl. 279—77.)

10. The combination with a bored tool spindle for the reception of a tool shank and having an opening into the bore thereof and in communication with a longitudinally-extending slot, of a tool-holding device comprising a pivoted key located in said slot interiorly of said



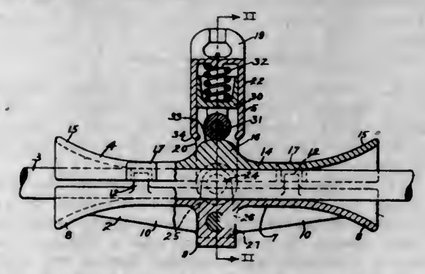
bored tool spindle to engage the tool shank, and a screw carried in the opening of the spindle for engaging said key thereby to cause the key to grip the tool shank within the spindle.

1,783,542. VOLTAGE CONTROLLING AND REGULATING DEVICE. GEORGE MERLE, Sr., Brooklyn, N. Y. Filed Aug. 24, 1928. Serial No. 301,866. 6 Claims. (Cl. 201—48.)



2. A multiple circuit voltage divider of the class described comprising a casing, a plurality of shafts spaced circumferentially of the casing, spring contact devices supported on the inner ends of said shafts, knobs on the exterior of said shafts by means of which said devices may be actuated, a resistance body supported in the casing and in the path of said contact devices, said body being divided into a plurality of resistance units in connection with which said contact devices operate, said contact devices being independently adjustable through the operation of said knobs, pinions on said shafts within the casing, another shaft arranged centrally with respect to the first named shafts and provided with a gear adapted to mesh with the pinions on the first named shafts, and means externally of the casing for rotating said shaft to collectively operate all of said contact devices, and means for normally holding said gear out of engagement with said pinions.

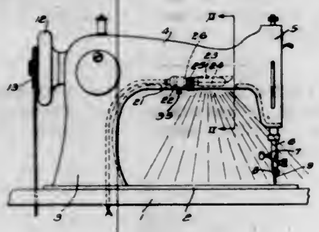
1,783,543. SUSPENSION CLAMP. FREDERIC H. MILLER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 7, 1927. Serial No. 231,525. 13 Claims. (Cl. 248—31.)



9. A transmission-line clamp comprising a conductor-clamping member, a yoke having its legs pivotally con-

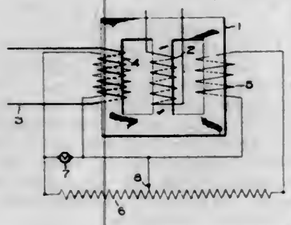
nected thereto at opposite sides thereof, a cooperating clamping member and means for exerting clamping forces between the clamping members including a spring between said co-operating clamping member and the yoke for transmitting the clamping forces between said co-operating clamping member and the yoke.

1,783,544. SEWING-MACHINE LIGHTING UNIT. LEWIS C. PACKER, Long Meadow, Mass., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 12, 1929. Serial No. 346,470. 8 Claims. (Cl. 240—2.)



1. The combination with a hollow sewing-machine goose neck having an opening in the inner wall thereof, of a lighting unit located entirely within the said opening.

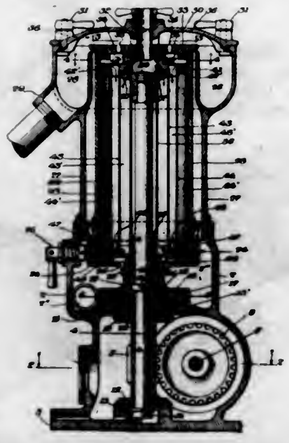
1,783,545. VARIABLE-VOLTAGE TRANSFORMER. JOHN F. PETERS and ALBERT J. MASLIN, Edgewood, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 20, 1926. Serial No. 89,775. 9 Claims. (Cl. 171—119.)



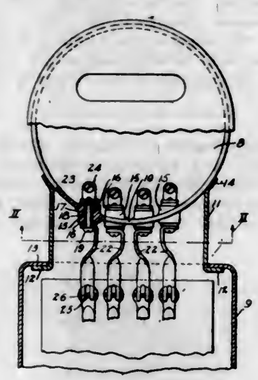
1. In a transformer, a core member comprising a plurality of legs, primary and secondary windings associated with said core member, auxiliary windings on a plurality of core legs, and a variable translating device connected to the auxiliary windings for controlling the flux distribution between the several legs associated with the auxiliary windings.

1,783,546. CENTRIFUGE. GUSTAV B. PETSCHE and ALFRED E. DRISSNER, Cleveland, Ohio, assignors to The National Acme Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 7, 1929. Serial No. 390,975. 15 Claims. (Cl. 233—31.)

1. In a centrifuge, the combination of a rotatable spindle, means for rotating it, and a bowl carried by the spindle and having nesting cylinder-forming chambers, said bowl having an inlet nozzle and a chamber communicating therewith, said chamber having exit ports located at its extreme radius thereby to give the fluid when leaving the chamber approximately the same speed as the inner cylinder, said chambers having communicating ports so located as to pass the fluid from the innermost chamber to the outermost chamber and from there toward the center of rotation through an adjacent chamber.



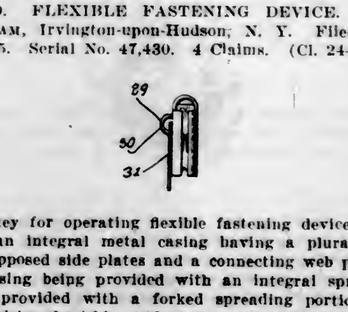
1,783,547. METER HOUSING. ARGYLE R. RUTTER, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 21, 1922. Serial No. 608,361. 2 Claims. (Cl. 247—2.)



2. In combination with an encased electrical measuring instrument and a casing for association therewith having contacts secured therein for electrical connection with an electrical circuit of substantial rigid contact means secured to, and projecting through, a wall of the casing of said measuring instrument and disposed to cooperate with the terminals in said associated casing, and means for maintaining said measuring instrument and associated casing in operative relation.

1,783,548. POWER SYSTEM AND APPARATUS THEREFOR. MAURICE L. SINDEBAND, New York, N. Y., and OTHMAR K. MARTI, Haddonfield, N. J., assignors to American Brown Boveri Electric Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 24, 1929. Serial No. 357,839. 5 Claims. (Cl. 175—361.)

1. In a power system, an alternating-current supply line, a hollow insulating member interposed between said line and ground, a grounded metallic base associated with the ground-end of said member, a cover associated with the line-end of said member and connected to said line,



and transformer apparatus disposed within said member and including a winding connected between said line and ground.

1,783,549. HAT. CHARLES SOLOMON, Yonkers, N. Y., assignor, by mesne assignments, to Superior Hat Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 8, 1928. Serial No. 317,905. 1 Claim. (Cl. 2—175.)

A hat including a crown and a brim, said brim having a major portion of opaque fabric material and a binder strip secured to its outer edge, and a front transparent brim section of crescent shape form extending across the entire width of the brim, said transparent section having an outer continuously curved edge, and a binder strip secured thereto and within the binding strip on the edge of the hat brim and also secured at the opposite side edges of the transparent section to the material of the hat brim, and a binder strip secured to the inner curved edge of said transparent brim section and to the lower edge of the hat crown.

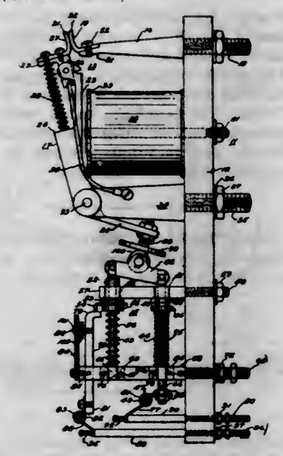
1,783,550. FLEXIBLE FASTENING DEVICE. NOEL STATHAM, Irvington-upon-Hudson, N. Y. Filed Aug. 1, 1925. Serial No. 47,430. 4 Claims. (Cl. 24—205.)

1. A key for operating flexible fastening devices comprising an integral metal casing having a plurality of spaced opposed side plates and a connecting web portion, said casing being provided with an integral spreading member provided with a forked spreading portion and being positioned within said casing and serving to retain and position said side plates in proper spaced relation, said spreading member being provided with a lateral portion passing through a slot in one of said side plates for providing a loop for attachment to an operating member and being provided with an additional lateral portion passing through a slot in the remaining side plate for attachment thereto.

1,783,551. METHOD OF TREATING SACCHARINE FLUIDS. LEONARD WICKENDEN, Flushing, N. Y., assignor to John J. Naugle, Rye, N. Y. Original application filed Nov. 6, 1925, Serial No. 67,463. Divided and this application filed May 3, 1927. Serial No. 188,612. 12 Claims. (Cl. 127—41.)

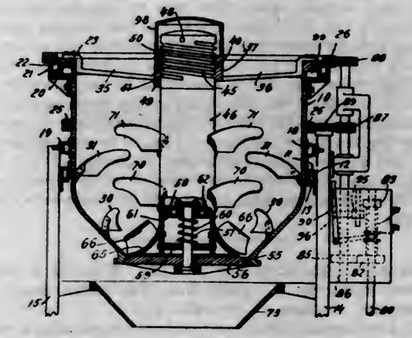
1. The method of inverting sucrose-containing fluids, which comprises the step of adding thereto a mono-saccharide sugar containing syrup containing invertase therein.

1,783,552. PROTECTIVE RELAY. HAROLD E. WHITE, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 3, 1926. Serial No. 152,405. 2 Claims. (Cl. 175—294.)



1. The combination with a switch for controlling a motor, a magnet coil for actuating the switch, a starting and a holding circuit for said magnet coil, each circuit including relatively movable and stationary contact members, means for effecting yielding engagement of the contact members of the holding circuit by closing movement of the switch, means including a current-traversed bimetallic element in electric circuit with the motor for effecting engagement of the contact members of the starting circuit, and means including a latch actuated by the bimetallic element for effecting disengagement of the contact members of the holding circuit upon predetermined overload conditions in the motor.

1,783,553. MIXER. KEMPTON ADAMS, Redding Ridge, Conn. Filed June 21, 1928, Serial No. 287,181. Renewed Jan. 6, 1930. 24 Claims. (Cl. 259—85.)



1. A mixer comprising a rotary receptacle, means for rotating said receptacle, means therein rotatable inde-

pendently thereof and movable axially thereof, means for rotating said rotatable and axially moving means and a closure for the receptacle carried by said means.

1,783,554. ELECTRIC HEATING DEVICE. CHRISTIAN B. BACKER, Brooklyn, N. Y. Filed July 17, 1926. Serial No. 123,220. 2 Claims. (Cl. 201—67.)



2. In a terminal for sheathed, insulated electric conductors comprising a sheath, a conductor in said sheath, and insulating material disposed between the conductor and sheath, said terminal comprising a hollow member having a portion extending into the sheath, one end of said resistor extending through the terminal, and a wedging member extending through the terminal and co-extensive with the resistor, whereby the terminal member is held firmly in intimate contact with the conductor.

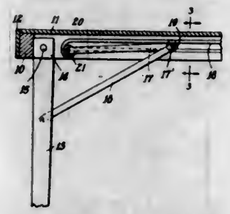
1,783,555. TUBE-TRANSPORTING DEVICE. OTTO BAMBERGER, Duisburg, Germany. Filed Mar. 31, 1927. Serial No. 179,849. 9 Claims. (Cl. 80—44.)



1. In a tube-mill transporting apparatus, in combination: conveying means for conveying tubes from the tube-forming mill at one end of said conveying means to a tube-cutting machine at the other end of said conveying means; and a framework for said conveying means; said conveying means being of a length substantially that of the distance between said tube-forming mill and said tube-cutting machine and also substantially the length of the longest tube adapted to be formed by said mill; and said conveying means being constituted of a plurality of end-to-end sections whereof one end-section extends directly from the tube-forming mill and the other end-section extends directly to said tube-cutting machine, said end-sections being respectively provided with power-means for raising and lowering them either simultaneously or successively and in such sequence that a formed tube may be lifted and advanced by both said sections, and then further advanced by the farther end-section before said tube-cutting machine while the other end-section lowers to make way for a second tube issuing from the tube-forming mill, and so that said farther end-section may be lowered just as it discharges the first tube before said tube-cutting machine and in time to make way for the advancing end of the said second tube that is passing over the said other previously lowered end-section of the conveying means; whereby the over-all length of the conveying means between the tube-forming mill and said tube-cutting machine may be substantially the length of the longest tube to be formed and cut, and yet substantially continuous operation of the tube-forming mill need not be interrupted by the operation of said tube-cutting machine to cut said first tube into shorter lengths.

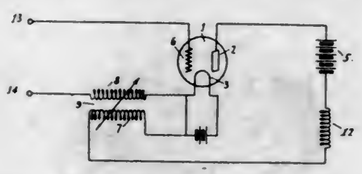
1,783,556. COLLAPSIBLE TABLE. WILLIAM J. BAUER, New York, N. Y. Filed Feb. 16, 1929. Serial No. 340,549. 4 Claims. (Cl. 45—11.)

3. A collapsiole article of furniture, comprising a top or platform element, a plurality of supporting legs pivotally attached thereto, braces pivotally attached at their one end to the respective legs, arms pivoted to the other ends of said braces, a roller carried by each of said arms, and trackways mounted beneath the table top and in which



the respective rollers are designed to ride, the respective tracks at their inner ends having depressed portions or notches into which a roller drops when a corresponding leg is fully extended.

1,783,557. COMPENSATING SYSTEM FOR AMPLIFIERS. JOSEPH BETHENOD, Paris, France. Filed Jan. 9, 1926, Serial No. 80,140, and in France Apr. 2, 1925. 9 Claims. (Cl. 179—171.)



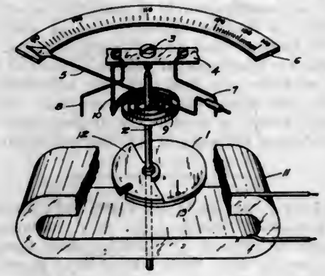
1. A low frequency circuit arrangement for obtaining amplification without distortion, including a thermionic amplifier having input and output circuits, sound responsive means connected in the output circuit normally giving rise to distortion in said output circuit, the distortion being due to non-linear relation between output current and input voltage, and variable coupling means between the output and input circuits whereby sufficient energy is transferred to the latter circuit to accurately compensate for said distortion.

1,783,558. FOLDING SUPPORT. WILLIAM E. BROWN, Los Angeles, Calif. Filed Apr. 22, 1927. Serial No. 185,768. 11 Claims. (Cl. 45—117.)



1. A device of the character described comprising a support having a radially projecting shoulder at its end, said shoulder having openings therethrough, rods adapted for projection through said openings so that the outer ends of the rods flare outwardly beyond said shoulder, the said support having openings therein adapted to removably receive the inner ends of the rods when the latter are in projected position to retain said rods in said projected position, and a locking member mounted on the shoulder and having wedging surfaces, said locking member being adapted for sliding adjustment so as to engage the projected rods by said wedging surfaces for gradually wedging the rods in projected position.

1,783,559. ELECTRICAL MEASURING INSTRUMENT. JAMES H. CONE, Rosiland, N. J., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 15, 1928. Serial No. 261,829. 4 Claims. (Cl. 171—95.)



2. In a meter, the combination with a winding, a shaft, and a disc of magnetizable material eccentrically mounted on said shaft to be influenced by the flux field of said winding, of an auxiliary magnetizable segment mounted for movement with said disc, and means for initially biasing said shaft whereby said disc is not moved by the flux field of said winding until the same has been energized to a predetermined degree, said disc thereafter moving said shaft in substantially uniform increments in accordance with the degree of energization of said winding.

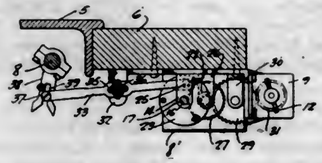
1,783,560. MAGNETIC CORE. KARL EISENMANN, Ludwigshafen-on-the-Rhine, and FRIEDRICH BERGMANN, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Mar. 18, 1929, Serial No. 348,127, and in Germany Mar. 30, 1928. 3 Claims. Cl. 175—21.)

3. As new articles of manufacture, magnetic cores comprising iron powder obtained from iron carbonyl and a Montan wax.

1,783,561. PRODUCTION OF IMPROVED MAGNETIC CORES. KARL EISENMANN, Ludwigshafen-on-the-Rhine, and FRIEDRICH BERGMANN, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Mar. 18, 1929. Serial No. 348,125, and in Germany Mar. 30, 1928. 3 Claims. (Cl. 175—21.)

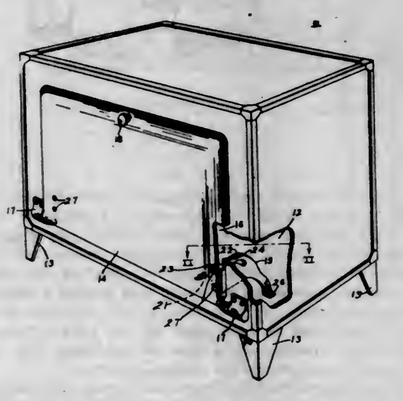
3. As new articles of manufacture, magnetic cores comprising iron powder obtained from iron carbonyl and a resinous condensation product of a urea and formaldehyde.

1,783,562. METER FOR SEWING MACHINES. BESSIE GALLAS FORBSTEIN, Los Angeles, Calif. Filed June 25, 1929. Serial No. 373,553. 4 Claims. (Cl. 235—91.)



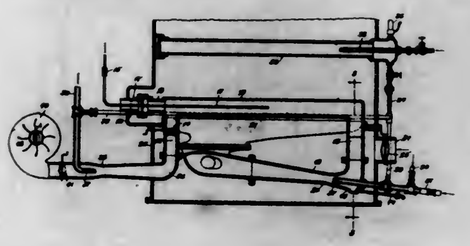
1. For a sewing machine having a frame, an oscillating shaft for operating a feed bar; a device adapted to measure stitching comprising an oscillative arm having a slot, a connecting rod having a pin slidably and adjustably mounted in said slot, said connecting rod having a guide slot, a pin mounted in normally stationary relation to said frame and slidably cooperating with said guide slot, a progressive engagement one-way clutch having a drive member and a driven member, a crank pin on said drive member secured to said connecting rod, and a register positively connected to said driven member.

1,783,563. DOOR CATCH. FRANK F. FORSHEE, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 23, 1929. Serial No. 334,412. 1 Claim. (Cl. 292—76.)



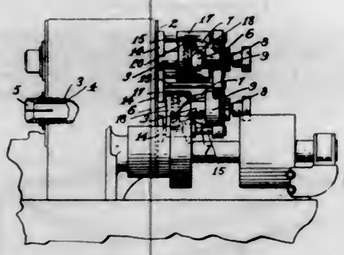
In combination with a casing and a door therefor hinged thereto, a flat metal member, of substantially arcuate shape, having one end secured to the inside of the door adjacent to the hinge and having a resilient tongue portion adjacent to the secured end of the metal member bent out of the plane thereof to yieldingly engage the edge of the casing to oppose a closing movement of the door near its closed position and to hold it closed, the rear end portion of the flat metal member being bent out of the plane thereof to yieldingly oppose an opening movement of the door near its open position and having an integral lug extending away from the plane of the metal member to limit the opening movement of the door.

1,783,564. GAS GENERATING AND BURNING APPARATUS. EDMUND A. GARRETT, Brightwaters, N. Y., assignor of one-half to Francis C. Schwab, Mount Vernon, N. Y. Filed Dec. 10, 1924. Serial No. 754,911. 23 Claims. (Cl. 158—56.)



1. A gas generator including a plurality of passages arranged in parallel, means for heating said passages, means for delivering air through all of said passages, and means for delivering a liquid fuel to the interior of one or more of said passages.

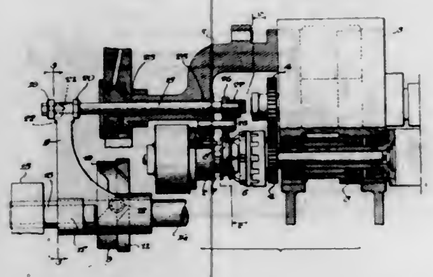
1,783,565. CHUCK-OPERATING MECHANISM FOR AUTOMATIC SPINDLE-SCREW MACHINES. CHARLES Q. GAREY, Windsor, Vt., assignor to The National Acme Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 6, 1928. Serial No. 252,144. 17 Claims. (Cl. 29—37.)



1. In an automatic multiple spindle screw machine having an indexible work carrier carrying a plurality of rotary work spindles provided with chucks and finger-operating clutch spools for shifting said chucks, the combination of a spider-formed frame secured to the carrier for indexable movement therewith and having a plurality of branching arms, each having a pair of rods carried thereby supported at both ends by the spider frame, a sliding shoe mounted on a pair of adjoining rods of a pair of arms, and means for sliding said shoe.

17. In a metal working machine having an indexable work carrier provided with work spindles and a cam shaft located under the spindles, a spider-formed frame secured to the rear of the carrier for indexible movement therewith, said frame having a plurality of sets of spaced rods supported at both ends by the spider frame, a sliding shoe extending under each spindle and having its ends mounted on a pair of adjoining rods of opposite sets, and means carried by the cam shaft for engaging the shoes at the under sides thereof, each of said shoes having a yoke adapted to engage about 75% of the surface of the member to be operated from the under side of said members.

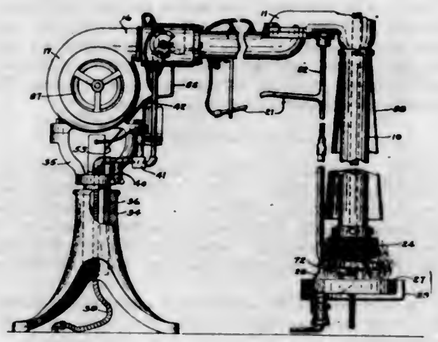
1,783,566. SPINDLE-STOPPING MECHANISM FOR METAL-WORKING MACHINES. CHARLES Q. GAREY, Windsor, Vt., assignor to The National Acme Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 19, 1928. Serial No. 286,564. 22 Claims. (Cl. 29—38.)



1. In a metal working machine having a spindle carrier provided with a plurality of rotary spindles and clutch mechanism for stopping and releasing said spindles, including indexable clutch shifters, the combination of means for operating the clutch shifters and settable into different positions to stop the rotation of any one of the spindles.

12. In a spindle stopping mechanism for metal working machines having a spindle carrier having a plurality of spindles, the combination of a plurality of clutches and a plurality of slidable forks engaging said clutches, means for shifting said forks and comprising a sliding arm, means for supporting it, means for sliding it, a shaft shiftable with the arm and rotatably adjustable relatively thereto, and means carried by the shaft for engaging any of the forks or a plurality thereof simultaneously thereby to stop a plurality of spindles at the same time.

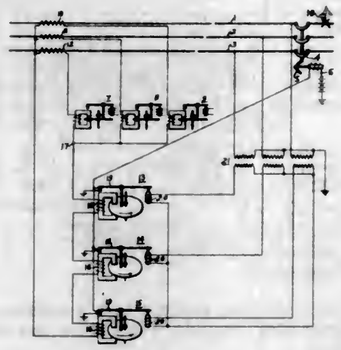
1,783,567. OIL-BURNER CONSTRUCTION. HARRY WILBUR GASTON, New Rochelle, N. Y., assignor to Boyce Automatic Oil Burner Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 4, 1927. Serial No. 158,849. 15 Claims. (Cl. 158—53.)



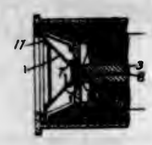
1. In an oil burner construction, a blower for supplying air to the burner in regulated quantities, a conduit for the air supplied by the blower arranged to extend through the fuel supply door of a furnace, a mixing chamber occupying a downwardly projecting position from the end of the air supply conduit extending into the furnace, a burner head mounted on the lower extremity of the mixing chamber, a closed ended vaporizing tube occupying a vertically extending position adjacent the mixing chamber such that said tube is subject to a progressively higher temperature along the length thereof, and means for supplying a regulated quantity of oil by gravity to the upper portion of the vaporizing tube, said vaporizing tube opening at its upper end into the end portion of the air supply conduit adjacent the mixing chamber, whereby oil vapor will enter the air stream and pass through the mixing chamber therewith to produce a gaseous mixture which will burn with a blue flame, said gaseous mixture passing from the supply chamber to the burner head for combustion.

1,783,568. ALTERNATING-CURRENT RELAY. SHIRLEY L. GOLDSBOROUGH, East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 30, 1928. Serial No. 302,972. 11 Claims. (Cl. 175—294.)

1. The combination with a polyphase circuit having circuit interrupters associated with the phase conductors thereof, of means energized only upon the occurrence of a ground fault on said circuit for actuating said interrupters, and means for restraining said actuating means selectively in accordance with the potential on the respective phase conductors.

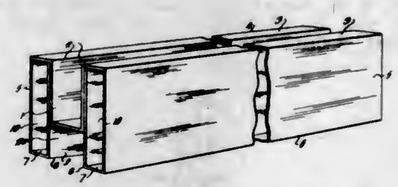


1,783,569. ELECTRODYNAMIC SIGNAL DEVICE. CLINTON R. HANNA, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Original application filed Aug. 25, 1925, Serial No. 52,268. Divided and this application filed July 11, 1928. Serial No. 291,895. 14 Claims. (Cl. 179—121.)



1. In a microphone, a magnetic circuit having an air gap, a coil mounted to move in said air gap, means for moving said coil in accordance with the sound and a conductive plating constituting a short-circuited secondary for said coil.

1,783,570. PACKING CUSHION. HARRY L. HILL, Buffalo, N. Y., assignor to Rodwell Sign Company, Buffalo, N. Y., a Corporation of New York. Filed Feb. 11, 1929. Serial No. 339,206. 2 Claims. (Cl. 229—14.)



1. A cushion formed from a unitary piece of material for use in packing fragile articles in a container, and comprising a central part bent to form a channel member, portions extending at substantially right angles from the edges thereof to the side walls of the container, further portions of substantially U shaped cross section and of greater depth than the depth of the channel extending from the outer edges of the first portions at right angles thereto and forming a pair of hollow rectangular members positioned upon the sides of the channel member and extending therebelow.

1,783,571. METHOD OF MAKING ELECTRICALLY-WELDED TUBING. JOHN W. HOLT, Cleveland Heights, Ohio. Filed Apr. 18, 1927. Serial No. 184,460. 4 Claims. (Cl. 219—10.)



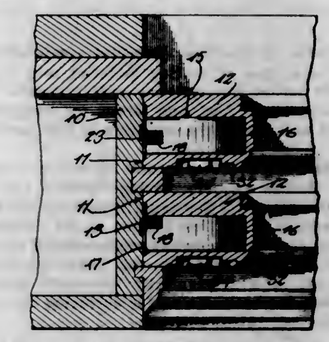
1. A method of electric welding, which comprises deforming an edge of a sheet metal strip into a series of spaced tapering points with corresponding lateral pockets at their bases, placing such edge against the other portion of metal to which it is to be welded, passing a welding current through such seam, and applying pressure while the metal is soft.

1,783,572. GRAMENT. MINNIE PAULINE JOHNSON, Long Beach, Calif. Filed Mar. 12, 1930. Serial No. 435,225. 2 Claims. (Cl. 2—72.)



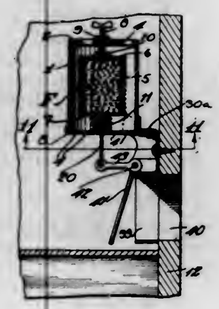
1. A garment comprising a waist portion, a nether portion, the nether portion being slit at the front and rear, fastening means adjacent the edges provided by the slits, the respective edges of the front and rear slits adapted to be secured together by said fastening means to provide a skirt, the opposing edges of the front and rear slits adapted to be secured together by said fastening means to provide a pair of leg portions, the opposite parts of the nether portion defined by said front and rear slits being foldable upwardly on themselves, and other fastening means for securing said parts in folded position to provide a short skirt.

1,783,573. SASH BALANCE. RUDOLPH LANZILLOTTA, Columbus, Ohio. Filed Dec. 31, 1928. Serial No. 329,493. 4 Claims. (Cl. 16—201.)



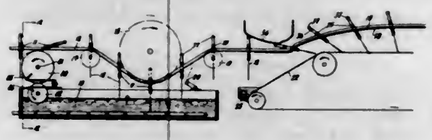
1. In a spring sash balance, a housing having a slot in one edge, a main spring in said housing, and a multiplying gear train connected to said main spring and including a gear mounted to move to project through the slot and to be retracted from projected position whereby to engage with and disengage from a frame supported rack.

1,783,574. THERMOSTAT. JAMES J. LAWLER, Mount Vernon, N. Y. Filed Jan. 31, 1929. Serial No. 336,555. 2 Claims. (Cl. 297—8.)



1. A thermostat of the character and for the purposes described, comprising a casing, a pair of spaced disks, one of which is rigid and the other movable, a bellows like tube connecting the two disks, a swivelled screw threaded through one end of the casing and attached to the rigid disk, a spring located in said casing between the movable disk and the end of the casing, and a link attached to the movable disk and projecting from the casing, said link passing axially through the spring.

1,783,575. APPARATUS FOR COATING ROOFING UNITS. CHESTER R. MACDONALD, Rutherford, N. J., assignor, by mesne assignments, to The Patent and Licensing Corporation, Boston, Mass., a Corporation of Massachusetts. Original application filed Mar. 13, 1926, Serial No. 94,377. Divided and this application filed Oct. 24, 1927. Serial No. 228,130. 37 Claims. (Cl. 91—46.)

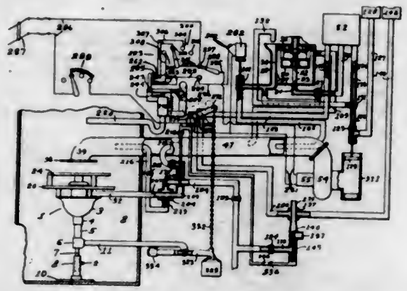


7. Apparatus of the class described, comprising means for applying stripes of coating material to a face of a roofing unit, means for applying coating material to the butt portion of said face, and means for swingably suspending the unit during the operation of both said coating means.

16. Apparatus of the character described, comprising means for forcibly gripping roofing elements and conveying them through a coating tank in position for applying coating material to the butt portion of the elements, said means being arranged to permit excess coating material to drain from the faces of the element, means for positioning said elements in a substantially horizontal plane after removal from the bath, means for surfacing the elements while in the last named position.

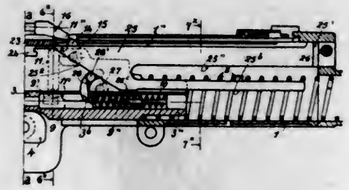
1,783,576. HEATING APPARATUS. WALTER L. MAJORS, St. Louis, Mo. Filed Nov. 30, 1925. Serial No. 72,199. 2 Claims. (Cl. 158—28.)

2. A heater having a burner, a conduit leading from an oil supply to said burner, means for regulating the flow of oil to said burner under control of the overflowing oil therefrom and a subsidiary mixture supply means in-



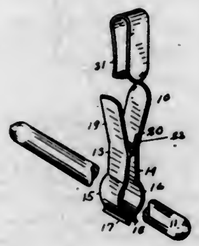
cluding a main air feed provided with a subsidiary fuel feed for discharging component parts of the fuel into the main air feed.

1,783,577. DEVICE FOR FEEDING CARTRIDGES AND FOR COCKING THE STRIKER IN AUTOMATIC FIREARMS. GIUSEPPE MASCARUCCI, Turin, Italy, assignor to Safat Società Anonima Fabbrica Armi-Torino, Turin, Italy, a Society of Italy. Filed July 11, 1928, Serial No. 291,709, and in Italy July 16, 1927. 6 Claims. (Cl. 89—3.)



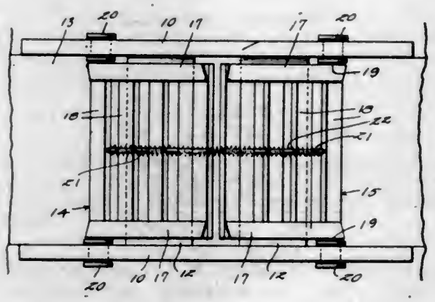
1. In a fire-arm, a casing, a barrel in the latter, means for feeding cartridges to the casing beside the barrel, a longitudinally extending blade fixed in the casing having an oblique front edge portion, a recoil operated obturator in the casing slidable longitudinally of the blade, and means on the front end of the obturator adapted to hold a cartridge against said oblique edge of the obturator whereby a cartridge is moved along said edge from the axis of said feeding means to the axis of the barrel during the recoil of the obturator.

1,783,578. LAUNDRY HANGER. JAMES MANDY, New York, N. Y., assignor of one-half to Mathilda Ecker, New York, N. Y. Filed Oct. 25, 1928. Serial No. 314,884. 1 Claim. (Cl. 24—84.)



A laundry hanger adaptable for holding a transverse rod in suspension from an adjacent line, the said hanger comprising opposed clamp elements hingedly connected to each and provided with a spring which bears against the said elements, legs extending downward from the hinge joint, and the said legs having gripping portions consisting of opposed curved members, which curved members have flared extremities spreading outward with respect to each other.

1,783,579. AUTOMOBILE GATE. PATRICK J. MCGRATH, Mill Iron, Mont. Filed Aug. 6, 1929. Serial No. 383,910. 2 Claims. (Cl. 39—5.)



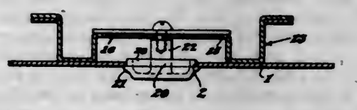
1. A gate comprising side members having longitudinally slotted ends, a gate proper formed of two hingedly connected sections, each section at its outer end having laterally projecting rollers engaging in the slots of the side members, and a spring connecting the remote ends of the two sections of the gate and urging the two sections of the gate to an upwardly convergent position.

1,783,580. DRILL BIT. JESSE P. MILLER, Houma, La., assignor of one-half to J. H. Thatcher. Filed Nov. 18, 1927. Serial No. 234,185. 13 Claims. (Cl. 255—75.)



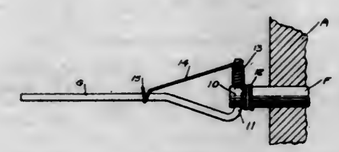
1. A drill apparatus comprising, in combination, a hollow drill stem; a bit head; a U-shaped fork having spring arms slidably mounted within the head; lugs on the fork; bit blades carried by the fork; a barrel secured to the drill stem and having seats for the blades; means associated with the lugs to aline the blades with the seats; and means integral with the bit head to expand and hold the blades in the seats.

1,783,581. LOCK-REPLACING UNIT. ENOCH OHNSTRAND, Kenmore, N. Y., assignor to Remington Rand Inc., Tonawanda, N. Y. Filed Nov. 15, 1927. Serial No. 233,434. 5 Claims. (Cl. 70—16.)



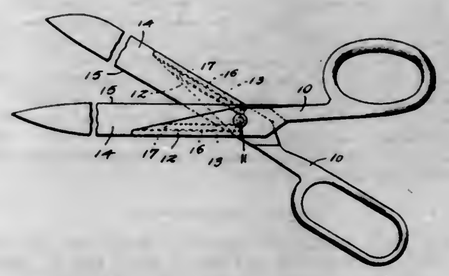
1. In combination, a drawer for furniture formed with a lock receiving opening in the front wall, a lock supporting member mounted inside of said drawer and having a portion in the rear of said opening spaced from the front wall, a filler member removably mounted in said opening and formed with an annular flange engaging the marginal portion of the front wall adjacent said opening, a plate member having the ends engaging said lock supporting member, and means adjustably connecting the plate member and filler member for retaining said filler member in said opening.

1,783,582. WINDSHIELD CLEANER. JOHN R. OISHEI, HENRY HUEBER, and WILLIAM PAULUS, Buffalo, and ERWIN C. HORTON, Hamburg, N. Y., assignors to Trico Products Corporation, Buffalo, N. Y. Filed Mar. 11, 1925. Serial No. 14,755. 10 Claims. (Cl. 15—255.)



3. In a windshield cleaner, a wiper carrying arm, an actuating member therefor, one of said elements having a transverse opening and the other of said elements having a laterally bent part pivotally engaging in the transverse opening, and a spring coiled about one of said elements and having its two ends secured respectively to the arm and actuating member.

1,783,583. DETACHABLE BLADED SCISSORS. FRANK L. RALSTON, La Grande, Oreg. Filed Dec. 8, 1927. Serial No. 238,646. 1 Claim. (Cl. 30—13.)

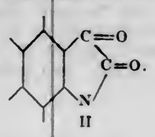


Scissors or shears comprising handle portions having their inner faces arranged in contact, a pivot extending

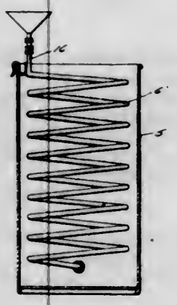
through the forward ends of the handle portions, blade supports extending forwardly from the handle portions and having their entire inner faces relatively spaced and provided in said faces thereof with longitudinally extending dovetail grooves, the blade supports decreasing in width in the direction of their front ends and having inclined edges extending diagonally across the front ends of said grooves to permit the outer walls thereof to be sprung outwardly, the forward ends of said outer walls being provided with depressions, blades provided on their outer faces with longitudinally extending dovetail ribs fitting in said grooves, and tits formed on the outer faces of said ribs near the front ends thereof and fitting in said depressions, the distance between the inner faces of the blade supports being equal to the combined thickness of the blades.

1,783,584. MANUFACTURE OF AROMATIC HYDROXYALDEHYDES. GUSTAV REDDELIEN, Leipzig, and HANS LANGE and HUGO PFANNENSTIEL, Dessau in Anhalt, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed June 27, 1928, Serial No. 288,802, and in Germany July 30, 1927. 8 Claims. (Cl. 260—137.)

1. A process of manufacturing aromatic hydroxyaldehydes by treating hydroxyaralkylamines with a compound containing the general nucleus:



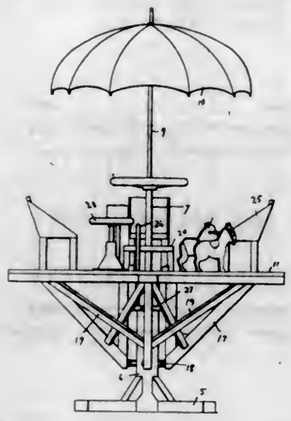
1,783,585. CREAM COOLER. ALFRED M. SAMUELSON, Henning, Minn. Filed Aug. 27, 1929. Serial No. 388,759. 1 Claim. (Cl. 257—205.)



In an apparatus of the class described, a receptacle, a pipe coil in the receptacle, the lower end of the pipe coil having an outwardly radiating extension, a nipple connected with said extension and disposed through an opening in the side of the receptacle, a downwardly inclined outlet pipe extension directly engaged on the nipple, a riser on the upper end of the pipe coil, a funnel, means for detachably connecting the funnel with the riser, a clip fastened to the riser and adapted for engagement over the upper edge of the receptacle.

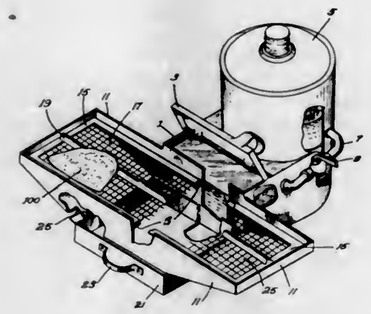
1,783,586. MERRY-GO-ROUND. ROAL DOS SANTOS, Honolulu, Territory of Hawaii. Filed May 22, 1929. Serial No. 365,110. 5 Claims. (Cl. 272—33.)

1. In a merry-go-round of the class described, a vertical standard, means for supporting the standard, a horizontal circular platform, radiating bars under the platform, anti-friction means between the inner ends of the radiating bars and the upper ends of the standards, a rod rising from the upper end of the standard to a central opening in the platform, a wheel on the upper end of the rod, vertical bars depending from the inner portions of the radiating bars, diagonal bars extending inwardly and downwardly from the outer portion of the radiating bars



to the lower end of the vertical bars, casters at the lower ends of the diagonal bars bearing against the standard, a lever pivotally mounted on one of the radiating bars and extending through a slot in the platform, a strap engaged with the lower end of the lever and extending around the standard and anchored to one of the vertical bars.

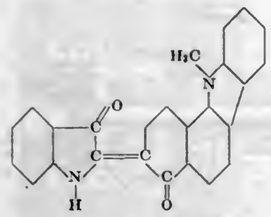
1,783,587. DEVICE FOR SOFTENING STIFFENERS FOR BOOTS AND SHOES. HAROLD L. SAWYER, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 19, 1927. Serial No. 184,990. 4 Claims. (Cl. 91—46.)



2. A device for softening stiffeners having in combination a receptacle for softening liquid into which a stiffener may be dipped, a closed reservoir for a supply of said liquid, a conduit leading from the reservoir to the receptacle, and a screen upon which the stiffener, after having been dipped, may be placed to drain, said screen being located outside of said reservoir.

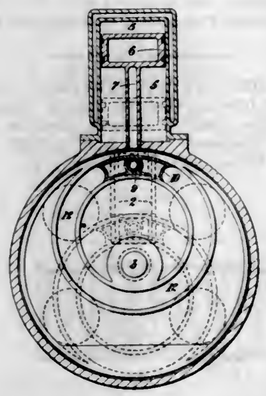
1,783,588. ISATIN-CARBAZOLE COMPOUND VAT DYESTUFF. MAXIMILIAN PAUL SCHMIDT, Wiesbaden, and OTTO LIMPACH, Biebrich, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed July 8, 1929, Serial No. 376,843, and in Germany July 21, 1928. 1 Claim. (Cl. 260—48.)

As a new product, the dyestuff of the following formula:



being a bluish-black crystalline powder, yielding with an aqueous alkali and hydrosulfite a yellow vat dyeing cotton and wool a yellow tint which turns deep black on exposure to the air.

1,783,589. MEANS FOR CONVERTING ROTARY INTO RECIPROCATING MOTION AND VICE VERSA. ALBAN FRANCIS SHEPARD, Richmond, England. Filed June 14, 1928, Serial No. 285,474, and in Great Britain June 17, 1927. 4 Claims. (Cl. 74—14.)



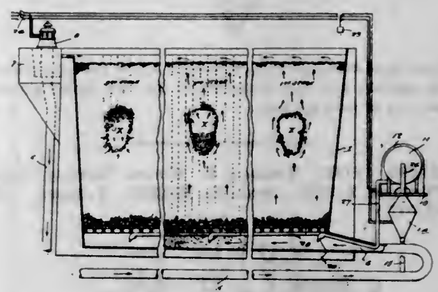
1. An engine, pump or the like, consisting of an assembly of symmetrical structure relative to a middle plane at right angles to the axis of rotation of the rotary parts and comprising in combination a pair of disc-like members each having an eccentric circular guideway therein, a reactionary member incorporating a straight guideway disposed in between said disc-like members, said disc-like members and said reactionary member being arranged for relative rotation, a cross head restrained in the said straight guideway and an arcuate slipper disposed in each eccentric circular guideway and pivoted to said cross head.

1,783,590. AIRPLANE. HENRY HERBERT SIMON, Greenville, S. C. Filed Aug. 14, 1928. Serial No. 299,475. 3 Claims. (Cl. 244—31.)



1. Means for heating the forward edges of airplane wings comprising a conduit for conveying a heating medium, the conduit being constructed in sections the adjacent ends of which are interconnected and secured to the frame members of the wings so as to reinforce the entire wing structure at the forward edge thereof.

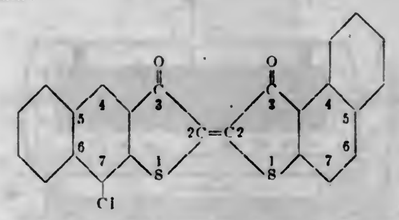
1,783,591. APPARATUS FOR LEACHING AND WASHING ORES BY THE USE OF GAS. ALBERT B. STEVENS, Inspiration, Ariz. Filed Jan. 26, 1929. Serial No. 335,259. 2 Claims. (Cl. 23—271.)



1. A leaching apparatus of the class described comprising in combination, a leaching tank, a perforated false bottom in the tank providing a chamber in the lower end of a leaching liquor supply pipe having communication with the chamber at one end thereof, a gas supply pipe a mixing chamber into which one end of the gas supply pipe extends, a branch pipe affording communication between the leaching liquor pipe and the bottom of the mixing chamber, a discharge pipe extending from the mixing chamber through which the mixture of gas and leaching liquor flows, a delivery pipe having communication with said discharge pipe disposed within the chamber of the leaching tank, said delivery pipe being provided with rearwardly and downwardly directed discharge nozzles at spaced intervals for discharging the mixture of leaching liquor and gas into the chamber in a direction substantially reverse to the direction of flow of the incoming leaching liquor in a manner to thoroughly mix same.

1,783,592. VAT DYESTUFF OF THE BENZOTHIONAPHTHENE SERIES. KARL THIESS and ERNST FISCHER, Frankfort-on-the-Main-Hochst, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Jan. 5, 1929, Serial No. 330,610, and in Germany Jan. 26, 1928. 1 Claim. (Cl. 260—53.)

As a new product, the vat dyestuff of the following formula:

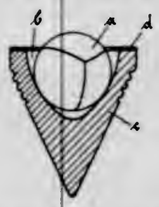


forming a reddish-brown powder, soluble in sulfuric acid to a blue solution and dyeing cotton from orange brown vat corinth tints.

1,783,593. WHIPPING TOP. HEINRICH VOLLHARDT, Frankfort-on-the-Main, Germany. Filed Jan. 3, 1929. Serial No. 329,975, and in Germany Oct. 3, 1928. 4 Claims. (Cl. 46—32.)

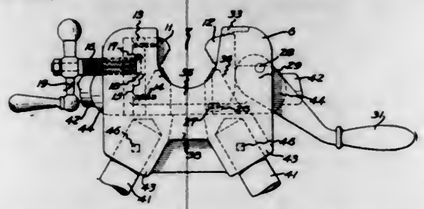
1. A top having a chamber in its upper portion and an opening in its upper side communicating with and of less

diameter than the extreme diameter of the chamber and a ball freely placed in said chamber and carried loosely by



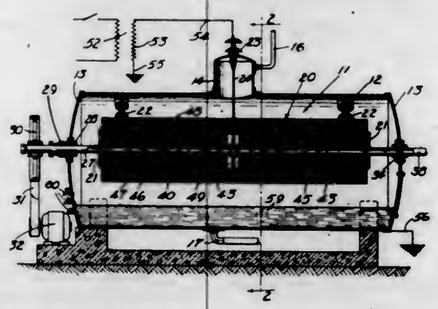
the top, said ball projecting upwardly above the top through said opening and the diameter of the ball being greater than that of said opening.

1,783,594. VISE. THOMAS R. WOODS, Redding, Calif. Filed Apr. 2, 1927. Serial No. 180,353. 2 Claims. (Cl. 81—17.)



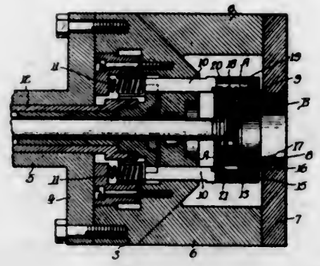
1. A pipe and rod vise comprising a frame, a housing mounted on the frame and having a groove in the top thereof adapted to receive and position a pipe, a jaw mounted in one side of said housing and slidable therein to project into said groove, means for adjustably positioning said jaw, an opposing jaw slidably and pivotally mounted in the other side of the housing, and a cam lever for operating said second jaw mounted in said housing and bearing against said second jaw, said housing being vertically apertured between said jaws to form an unobstructed passage.

1,783,595. DEHYDRATOR HAVING HORIZONTAL REVOLVING ELECTRODES. JOHN T. WORTHINGTON, Long Beach, Calif., assignor to Petroleum Rectifying Company of California, Los Angeles, Calif., a Corporation of California. Filed Nov. 11, 1926. Serial No. 147,737. 13 Claims. (Cl. 204—24.)



10. In a dehydrator, the combination of: an outer drum electrode; an inner perforated drum electrode, said inner electrode defining a central space; means for setting up a field between said electrodes; means for rotating said inner electrode; and means for introducing emulsions into said central space, said emulsion passing outward through the perforations of said inner electrode and into said electric field.

1,783,596. WORK HOLDER. RAYMOND M. WOYTYCH, Fond du Lac, Wis., assignor, by mesne assignments, to The Heald Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed Jan. 16, 1925. Serial No. 2,756. 4 Claims. (Cl. 279—1.)



1. In apparatus of the class described, in combination, a body adapted to receive a ratchet wheel, a front plate closing one end of said body, said plate having a central opening and a centering pilot concentric with said opening, a plurality of pins rigidly secured in the inner periphery of said body and extending longitudinally thereof, said pins being adapted to fit over certain of the ratchet teeth, and means for rotating said wheel to move the backs of said teeth into clamping engagement with the said pins.

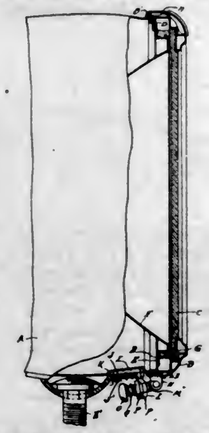
1,783,597. SHEET-METAL CULVERT. WILLIAM ELWOOD BABE, Oshawa, Ontario, Canada, assignor to The Pedlar People Limited, Oshawa, Ontario, Canada, a Joint-Stock Company. Filed Apr. 2, 1929. Serial No. 351,953. 1 Claim. (Cl. 285—185.)



A pair of corrugated sheet metal pipes inserted at their ends one within the other so that the end corrugations interengage, and a semi-cylindrical tie-plate adapted to fit the engaging corrugations and to be riveted at one side to one pipe end at the one side of the engaging corrugations and at the other side to the other pipe end at the other side of the engaging corrugations.

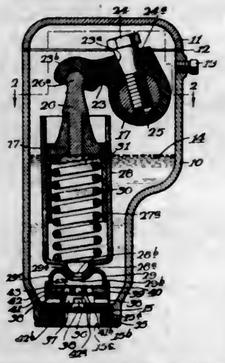
1,783,598. LAMP CATCH. FRANK L. BAMFORD, Detroit, Mich., assignor to C. M. Hall Lamp Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 30, 1925. Serial No. 59,658. 6 Claims. (Cl. 292—67.)

1. In a lamp fastener, a catch for holding a lens holding ring in engagement with a lamp casing comprising a shank pivotally attached to the ring, a cross bar sleeved on said shank, a spring also sleeved on said shank having its rear end engaging a shoulder thereon and its forward end bearing against said cross bar, the said shank projecting on opposite sides of the cross bar to provide a free end for facilitating the pressing of the cross bar against the spring, and a flange projecting outward from said casing forming a bearing for engagement of said cross



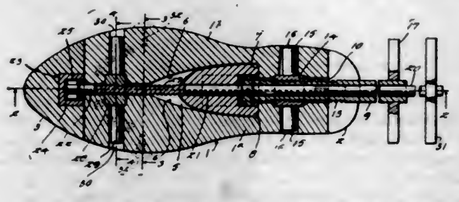
bar slotted to permit the passage of said shank, the said catch being releasable without increase of the force acting to hold said ring in engagement with said casing.

1,783,599. SHOCK ABSORBER. DENNIS B. D. BLAKE, Danville, Ill., assignor of one-half to Donald E. Willard, Danville, Ill. Filed Apr. 9, 1928. Serial No. 268,546. 10 Claims. (Cl. 267—8.)



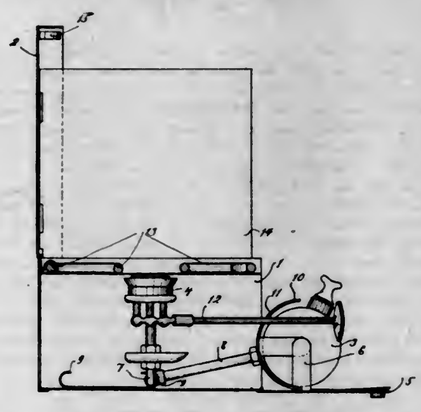
2. The combination in a shock absorber of a valve comprising a member having a plurality of openings therethrough, a valve disk having a flap adapted to close a part of said openings against the flow in one direction, and another valve member having a flap adapted to close the remainder of said openings against flow in the opposite direction.

1,783,600. SHOE STRETCHER OR ADJUSTER. CHARLES R. BOYD, Marshalltown, Iowa, assignor of forty per cent to Alfred Batty, Marshalltown, Iowa. Filed Aug. 13, 1929. Serial No. 385,586. 6 Claims. (Cl. 12—128.3.)



1. A shoe stretcher or adjuster, comprising a body consisting of longitudinal sections pivotally connected at their rear ends, a heel block detachably secured to the body, a toe block, means for moving the body sections laterally outward with respect to each other, and means for moving the toe block forwardly and rearwardly with respect to the body and free of engagement with said first means, said means being selectively operable from the rear end of the body to permit the shoe to be stretched laterally or longitudinally.

1,783,601. COOKING APPARATUS. CARL VICTOR CARLSSON, Upplands-Vasby, Sweden. Filed Oct. 24, 1927, Serial No. 228,358, and in Sweden Sept. 28, 1927. 2 Claims. (Cl. 126—38.)



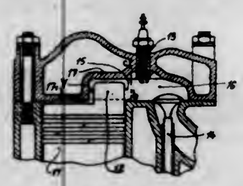
1. Cooking apparatus comprising a box, a member forming one side of the box, hinged thereto and arranged to be opened and closed, a receptacle for liquid fuel mounted on said hinged member and movable therewith into and out of the box, a burner arranged in the box, a fuel pipe whereby said burner is connected to and movable with and by said receptacle, and a protector plate also mounted on said box member and arranged at the side of the receptacle nearest the box.

1,783,602. VAGINAL SPECULUM. MILTON H. DAMRON, Long Beach, Calif. Filed Oct. 29, 1928. Serial No. 315,842. 4 Claims. (Cl. 128—3.)



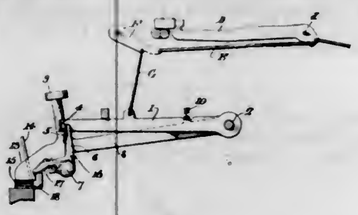
1. In a vaginal speculum, a body member having a guard formed with an aperture to cover the flesh at all points around the vaginal orifice, a lip extending in one direction from the base of the aperture, and a weight forming arm depending from the guard.

1,783,603. ANTIEXPLOSIVE MEANS WITH GREAT TURBULENCE FOR EXPLOSION MOTORS. ALBERT ALEXANDRE AUGUSTIN DARCHE, Algiers, Algeria. Filed Apr. 13, 1928, Serial No. 269,839, and in France Apr. 16, 1927. 1 Claim. (Cl. 123—191.)



In an internal combustion engine, a cylinder having a head provided with an ignition and valve chamber, the major portion of which is out of line with and extends laterally from one side of the cylinder and which chamber has an extension part way across and in communication with the cylinder, and a piston in the cylinder having at one side, at its inner end, a projection adapted to enter and nearly fill said extension of said chamber and hence force combustion gases from said extension into the major portion of said chamber at the end of the instroke of the piston, the length and width of said projection being slightly less than the corresponding dimensions of said chamber extension and the opposing localized surfaces of said projection and the said chamber extension being substantially parallel, so that at complete instroke position of the piston a narrow tortuous passage is formed between the cylinder and the chamber to cause turbulent agitation of the gases at the instant of ignition.

1,783,604. TYPEWRITING MACHINE. GUSTAVE O. DEGENER, Brooklyn, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 11, 1928. Serial No. 253,673. 3 Claims. (Cl. 197—29.)



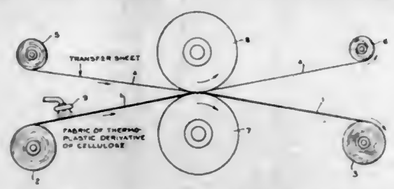
2. In a type action, a type bar, a sub-lever, a front link, connections between the type bar and the front link and between the sub-lever and the front link, a key lever, a latch movably mounted on one lever for normally connecting both levers, and means engageable by said latch during the depression of the key lever for moving said latch to disconnect said levers.

1,783,605. PIPE. ERNEST DELLA, Rochester, N. Y., assignor to Walter J. McGuigan, Rochester, N. Y. Filed July 13, 1928. Serial No. 292,461. 4 Claims. (Cl. 137—75.)



1. A pipe having between its ends two hub portions facing each other, a weakened portion surrounding the pipe and connecting the facing hub portions.

1,783,606. PROCESS OF PRINTING FABRICS. CAMILLE DREYFUS, New York, N. Y. Filed June 30, 1927. Serial No. 202,746. 13 Claims. (Cl. 41—33.)



1. A process of printing fabrics which comprises spraying the fabric to be printed with a solvent for the dye on a transfer medium, applying the wetted fabric to a transfer medium, having a dye that is capable of dyeing the fabric to be printed under pressure, whereby the dye on those portions of the transfer medium, which come into intimate contact with the wetted fabric, will be dissolved and will combine with the fabric to color the latter.

1,783,607. COLORATION OF MATERIALS MADE OF OR CONTAINING CELLULOSE DERIVATIVES. HENRY DREYFUS, London, England. Original application filed Jan. 22, 1927, Serial No. 162,937, and in Great Britain Nov. 23, 1926. Divided and this application filed Dec. 27, 1927. Serial No. 242,976. 14 Claims. (Cl. 8—5.)

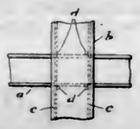
1. Process for dyeing material comprising an organic substitution derivative of cellulose, comprising dyeing the material with a coloring compound which comprises at least one aliphatic hydroxy thio-ether grouping.

1,783,608. TREATMENT OF FABRICS. GEORGE HOLLAND ELLIS, HENRY CHARLES OLPIN, and ERIC EATON WALKER, Spondon, near Derby, England, assignors to Celanese Corporation of America, a Corporation of Delaware. Filed Mar. 15, 1928, Serial No. 262,033, and in Great Britain Sept. 12, 1927. 9 Claims. (Cl. 41—41.)



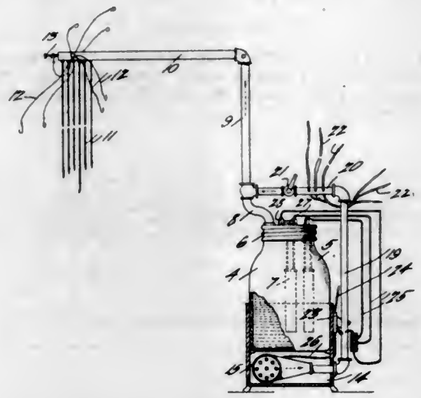
1. A process for treating pile fabrics having a pile comprising filaments of a cellulose derivative and a back of a material other than a cellulose derivative which comprises softening and weakening, in selected areas of the fabric, the loops of the pile filaments composed of the cellulose derivative, and afterwards mechanically removing the weakened pile filaments from the treated parts of the fabric while they are in a substantially undissolved state and in filament form.

1,783,609. CARCASS FOR BUILDINGS. CARL FORSSELL, Stockholm, Sweden. Filed Mar. 14, 1923, Serial No. 624,893, and in Sweden Mar. 15, 1922. 3 Claims. (Cl. 72—15.)



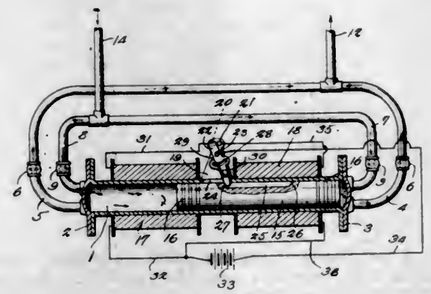
3. In a carcass for buildings, a column of concrete having internal longitudinal reenforcing irons, a beam of steel extending through said column, the concrete of the column being cast around the beam so as to be firmly connected to and wholly support the same and thereby form a joint capable of withstanding bending stresses, and transverse reenforcing irons embedded in said column at the crossing point of the beam therewith.

1,783,610. HAIR-TREATING MACHINE. PAUL EDMUND GAIRE, New York, N. Y. Filed Apr. 30, 1930. Serial No. 448,697. 8 Claims. (Cl. 132—36.)



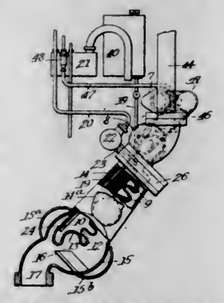
8. A hair treating machine comprising a rectangular box-like casing of comparatively small dimensions, a glass container removably fitted within and supported by the casing, a blower arranged between the bottom of the container and the bottom of the casing, a pipe communicating with the blower and leading through the casing and extending vertically thereof beyond the wall of the casing, the upper end of the pipe overlying the container, a cap removably secured to the container, electric heaters carried by the cap and depending within the container, a vapor pipe supported by the cap and communicating with the air pipe above the cap, a common pipe extending beyond said communication between the air and vapor pipes and leading to a point of use, and a switch carried by the casing and controlling the blower and electric heaters.

1,783,611. PUMP. HERMAN C. GOHRING, Estacada, Oreg. Filed Sept. 29, 1928. Serial No. 309,304. 1 Claim. (Cl. 230—55.)



A pump comprising a fixed standard, a barrel provided at each end with a conduit and having a longitudinal slot, solenoid magnets on the barrel and located on opposite sides of the slot, a combined piston and core mounted to reciprocate in the barrel and responsive to the magnets, the piston and core having a longitudinal slot defining shoulders, and an operating member movable with respect to the piston and core, the movable operating member being a lever, means for fulcruming the lever on the standard, the movable operating member extending through the slot in the barrel and into the slot in the piston and core, the shoulders engaging the movable operating member as the piston reaches the ends of its strokes in opposite directions, the movable operating member constituting means for holding the piston and core against rotation, and the barrel reinforcing the movable operating member against lateral bending, and binding against the standard, when the movable operating member is resisting the rotation of the piston and core.

1,783,612. CARBURATION OF HYDROCARBON FUEL FOR INTERNAL-COMBUSTION ENGINES. GEORGE HAMILTON-GRAPES, Murrumbeena, Australia. Original application filed Mar. 11, 1926, Serial No. 93,999, and in Australia May 7, 1925. Divided and this application filed Sept. 10, 1928. Serial No. 305,119. 7 Claims. (Cl. 48—180.)

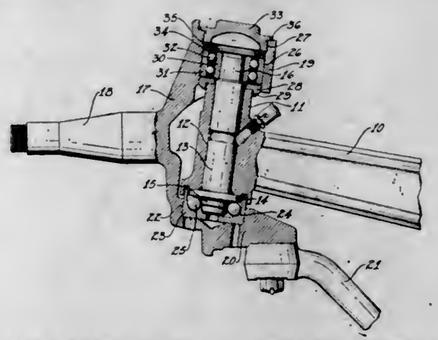


3. The method of treating a stream of carburetted fuel mixture, which comprises separating condensed liquid fuel particles from such stream, passing the particles through an increasing temperature gradient against a current of air, returning the vaporized particles into said stream at the point of separation thereof, and supplying to the particles another charge ingredient.

1,783,613. METHOD OF MAKING CEMENT-COATED WIRE. J BIRCHARD GREEN, Chicago, Ill., assignor to Chicago Steel and Wire Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 23, 1927. Serial No. 235,402. 8 Claims. (Cl. 91—68.)

1. The method of coating a wire, which consists in applying to the wire in coil form the coating material in a liquid form, and drying the wire while suspended on a rotating support upon which it is constantly changing its position thereon.

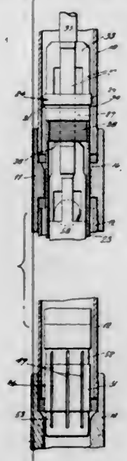
1,783,614. MOTOR VEHICLE. WALTER R. GRISWOLD, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed June 13, 1927. Serial No. 198,683. 7 Claims. (Cl. 280—96.1.)



1. In a steering knuckle, the combination with the axle member and the spindle member, of separated ball bearings

between the members, each adapted to take thrust as well as radial load, and means acting through the bearings to clamp the axle member between separated rigid parts of the spindle member comprising a nut and spring means, substantially as described.

1,783,615. PUMP. ROBERT W. GUNN and WILLSIE A. S. THOMPSON, Los Angeles, Calif., assignors, by mesne assignments, to Emsco Derrick & Equipment Company, Los Angeles, Calif., a Corporation of California. Filed Apr. 26, 1927. Serial No. 186,681. 2 Claims. (Cl. 103—181.)



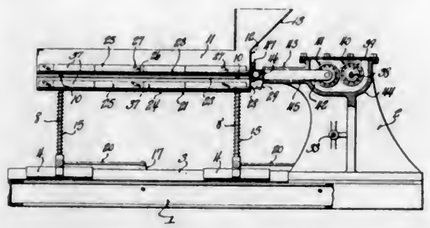
1. In combination: a well tubing; a tubular shoe on said well tubing having a bore of lesser diameter than said tubing, said bore having plain uninterrupted side walls defining its portion of minimum diameter; a pump barrel; a gripping member on said barrel adapted to be forced with friction-tight fit into said bore, said member having a radially resilient portion engaging the plain side walls of said bore, said member having a longitudinal passage therethrough and adapted to receive in said passage a gas anchor, said gas anchor being connected with said member at its upper end so as to form a recess between said member and said gas anchor; and supporting means provided above said shoe to support said barrel within said well tubing.

1,783,616. STEPLADDER. HENRY C. HACHMUTH, Comstock Park, Mich. Filed Jan. 21, 1929. Serial No. 338,792. 5 Claims. (Cl. 228—29.)



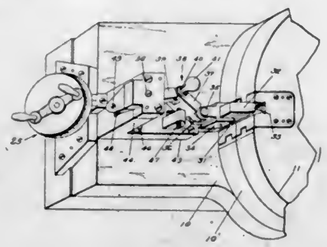
1. A step ladder comprising a front leg structure, a rear leg structure, a supporting plate pivotally connected to the upper end of the front leg structure to swing on a horizontal axis and means for mounting the rear leg structure on said supporting plate to turn on an axis substantially perpendicular to the support on which the leg structures of the step ladder rest.

1,783,617. VIBRATORY SCREEN. FREDERICK H. HASELOW and CHARLES REDIG, Milwaukee, Wis. Filed Aug. 25, 1928. Serial No. 302,010. 2 Claims. (Cl. 209—403.)



1. A vibratory screen comprising an open bottom rectangular member having an open rear end and a closed forward end, said member having inturned flanges, a screen resting upon said flanges, locking strips positioned above the edges of said screen and binding said screen against said flanges, said locking strips having cam means for forcing such strips into contact with said screen when said strips are moved forwardly, a base, means extending from said base and pivotally supporting said member, a head extending upwardly from said base, spring means interposed between said head and said strips and urging said strip toward locking position and urging said vibratory member towards said head, and eccentric means carried by said head for rapidly oscillating said member.

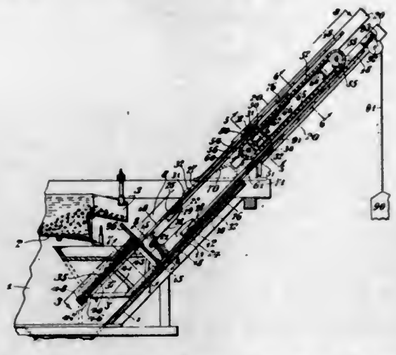
1,783,618. LOCKING DEVICE FOR LAPPING MACHINES. MILTON A. HOYT, East Orange, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Nov. 10, 1927. Serial No. 232,260. 10 Claims. (Cl. 29—48.)



1. A machine for making a wheel for lapping a wear resisting body comprising means for supporting a tool rod, a rotatable tool holder having a plurality of tools, means for movably supporting said tool holder to successively apply said tools to said tool rod, a toggle joint, a locking member, pivoted means having the axis thereof disposed in a plane at right angles to the axis of rotation of said holder, said means connecting said locking member with said toggle, and means for moving said toggle to engage said member with said tool holder and retain the same in position during an operation of a tool.

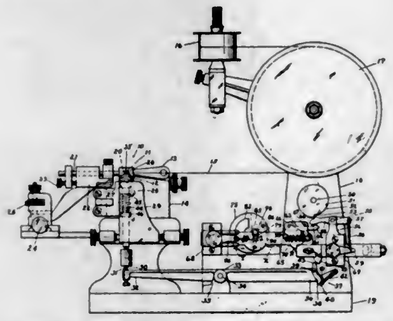
10. A metal working mechanism comprising a base member, a tool holder movably mounted on said base member, a plurality of tools projecting from said tool holder, said tool holder having a slot adjacent to each of said tools, said base member having a slot in a predetermined position, said last mentioned slot being arranged for successive alignment with one of the slots in said tool holder, a locking device comprising a toggle joint, a link pivotally attached to a free arm of said toggle, a locking member pivotally attached to said link, means for actuating said toggle to move said locking member into a slot in said base and into a slot in said tool holder to align the slots and retain the tool holder in position during an operation of one of said tools, means for limiting the motion of said toggle and means for changing the degree of movement of said locking member toward said slots.

1,783,619. COAL-HANDLING APPARATUS. HENRY HOWELL ISRAEL, Lansford, and GEORGE TRUSSA, Nesquehoning, Pa. Filed Nov. 26, 1927. Serial No. 235,787. 10 Claims. (Cl. 198—226.)



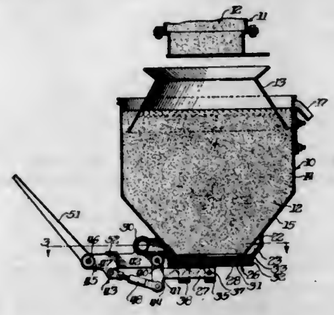
1. In apparatus for removing coal from a jigging machine, the combination of a plunger, a guide-way for the said plunger having an open top through which coal is delivered from the jigging device of said machine into said guide-way in front of said plunger, means for causing reciprocating movements of said plunger, and means independent of and actuated by the said plunger for closing the open top of said guide-way when the said plunger is moved outwardly to cause discharge of coal from said guide-way.

1,783,620. WIRE-CUTTING MECHANISM. ALLAN WILLIAM JOHNSON, Newark, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Mar. 30, 1929. Serial No. 351,394. 12 Claims. (Cl. 140—140.)



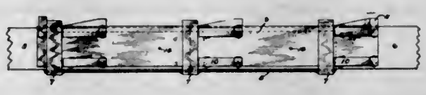
1. In combination with a wire coiling machine having means for moving a wire, a measuring drum movable through frictional engagement with said wire, wire cutting mechanism, means independent of said drum for storing energy to actuate said cutting mechanism and means cooperating with said drum for releasing said energy to actuate said cutting mechanism.

1,783,621. VALVE. CHARLES S. JOHNSON, Champaign, Ill. Filed Jan. 3, 1928. Serial No. 244,862. 6 Claims. (Cl. 251—10.)



2. A valve device for a batch hopper having a discharge opening, said device comprising a body member having a valve seat, a valve member, a lever pivoted adjacent the valve seat and having one end connected to said valve member, and means for swinging said lever to move said valve member to and from valve closing position, said means comprising a bracket stationarily supported relative to said body member, a bell crank lever pivoted on said bracket, one arm of said bell crank forming an operating handle and the other arm forming one link of a toggle, a link completing said toggle having one end pivoted to the toggle arm of said bell crank and its other end pivotally connected to the lever supporting said valve member.

1,783,622. TIMBER SPLICER. CHARLES M. MARKHAM, Toledo, Ohio. Filed Aug. 30, 1929. Serial No. 389,525. 6 Claims. (Cl. 20—92.)



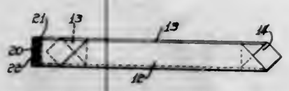
1. A timber splicer having transversely opposed timber clamping members, which members are of a cross-sectional shape to form timber receiving cavities which face each other and extending across the joint of timbers to be spliced, retaining means encircling said members and permitting relative transverse and longitudinal movements of the members, and means on one of the members operable to cooperate with the retaining means when the associated member has lengthwise movement in one direction to force the two members to have clamping coaction with any interposed timbers.

1,783,623. SUPPORT CONSTRUCTION FOR LARGE FILAMENT LAMPS. ARNOLD CRAWFORD MASSIE, Bloomfield, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Mar. 27, 1929. Serial No. 350,320. 7 Claims. (Cl. 176—39.)



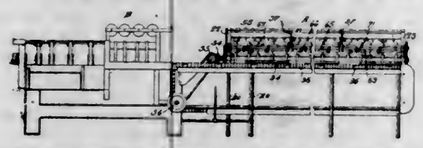
1. A lamp filament retaining bridge member comprising a metal strip portion having a plurality of horizontally adjustable spacer members, guide members integral with said spacer members adapted to receive filament extension members and means on said filament extension members for positioning the member vertically.

1,783,624. SIFTPROOF VALVE BAG. EDWARD W. MENKE, Chicago, and JOHN C. REDINGTON, Geneva, Ill., assignors, by mesne assignments, to St. Regis Paper Company, New York, N. Y., a Corporation of New York. Filed Jan. 28, 1929. Serial No. 335,518. 2 Claims. (Cl. 150—9.)



1. A valve bag having a sleeve projecting from its valve, said sleeve having one wall extending farther than the other.

1,783,625. AUTOMATIC BOOK-ASSEMBLY MECHANISM. CHARLES L. MOYER, Chicago, Ill., assignor, by mesne assignments, to Quality Hardware and Machine Corporation, a Corporation of Illinois. Filed May 16, 1928. Serial No. 278,063. 10 Claims. (Cl. 270—55.)

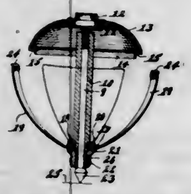


1. An automatic book assembly mechanism comprising a single undivided box for containing piles of signatures arranged with the folded edges at the front of the box, gripper means for withdrawing signatures from the piles, means for reversing the position of the signatures, means for moving the signatures in reversed position, oscillating arms engaging the upper surfaces of said signatures for crimping the signatures to stiffen the upper half thereof as the same are moved by the moving means, gripper means engaging the lower half of said signatures for carrying the same away from the upper half, means for depositing the opened signature on a feeding arm, and means for gathering the opened signatures into book form.

1,783,626. METHOD OF MAKING CRYSTALLINE DEXTROSE. WILLIAM B. NEWKIRK, Riverside, Ill., assignor to International Patents Development Company, Wilmington, Del., a Corporation of Delaware. Original application filed Jan. 17, 1925, Serial No. 3,105. Divided and this application filed June 9, 1926. Serial No. 114,863. 8 Claims. (Cl. 127—30.)

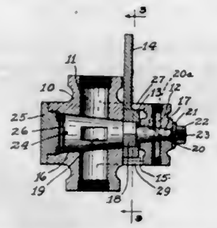
3. Improvement in the method of making anhydrous dextrose from a water dextrose solution which consists in crystallizing normal anhydrous dextrose crystals from a water dextrose solution containing 93% or higher of dextrose without the addition of seed, and maintaining the crystallizing magma at a temperature favorable to the formation of the anhydride and in movement so as to effect a uniform dispersion of the solid phase dextrose throughout the same.

1,783,627. NOVELTY TOP. VITO ORAZIO RAIMONDI, Chicago, Ill. Filed Sept. 13, 1929. Serial No. 392,290. 4 Claims. (Cl. 46—32.)



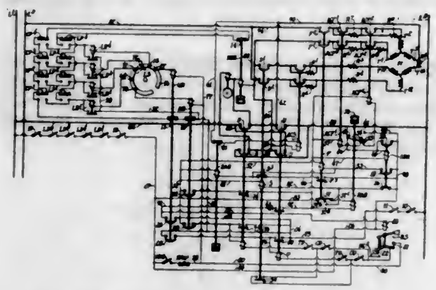
2. A device of the class described comprising a stem having a spinning head, a sleeve member slidably mounted upon said stem, a wing support carried by said sleeve member, a plurality of wings pivotally mounted upon said wing support, and means for engaging said wings to normally maintain same in closed position and adapted to release said wings upon impact of said spinning head with a surface.

1,783,628. CUT-OUT VALVE. FREDERICK SCHIELE, Niles, Mich. Filed Nov. 19, 1928. Serial No. 320,300. 2 Claims. (Cl. 251—104.)



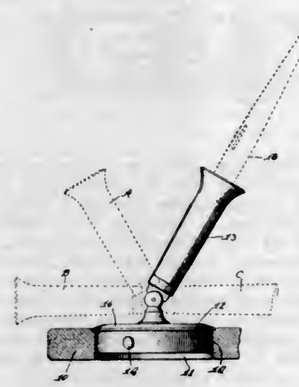
1. In a valve construction, the combination of a cast metal integral housing having two through passageways side by side for fluid flow, a tapered integral valve member crossing said passageways and having ports opening and closing said passageways by turning movement of said valve member, and a handle carried by said valve member for turning it, said passageways having separated adjacent walls in substantially parallel relation, said valve member between said walls having a flat sided conformation, and said handle having a hub portion fitting loosely between said adjacent walls and having an aperture fitting the flat sided portion of said valve member.

1,783,629. PUSH-BUTTON ELEVATOR-CONTROL SYSTEM. EDWIN W. SEEGER, South Milwaukee, Wis., assignor, by mesne assignments, to Cutler-Hammer Inc., Milwaukee, Wis., a Corporation of Delaware. Filed Oct. 27, 1926. Serial No. 144,415. 18 Claims. (Cl. 172—152.)



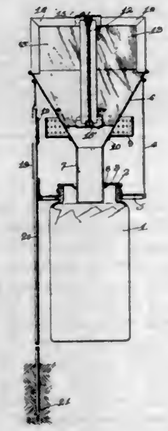
1. In a push button elevator control system, the combination with a variable speed reversible motor for driving the car, of a plurality of push button switches operable selectively to initiate operation of the motor, means comprising a selector switch cooperating with said push button switches to predetermine the direction and the approximate duration of operation of said motor, and means also controlled by said selector switch comprising a retiring switch carried by the car and a cam in the hoistway, said retiring switch being releasable by said selector switch to insure engagement thereof with said cam during approach of the car to a preselected landing, whereby said motor is stopped only when the car is accurately positioned at said landing, said selector switch being also operable to insure low speed circuit connections for said motor prior to arrival of the car at said landing.

1,783,630. FOUNTAIN-PEN DESK STAND. WALTER A. SHEAFFER and WILLIAM R. CUTHBERT, Fort Madison, Iowa; said Cuthbert assignor, by mesne assignments, to Pen Desk Set Company, a Corporation of Illinois. Filed Aug. 26, 1927. Serial No. 215,570. 3 Claims. (Cl. 120—108.)



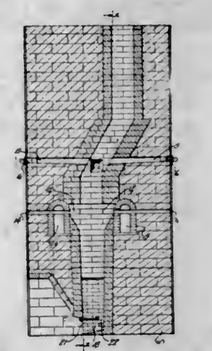
1. A fountain pen desk stand comprising a flat base adapted to be placed on the top of a desk, supporting means on said base, a receptacle having a projecting portion thereon pivotally mounted on said supporting means, said projecting portion having a scalloped periphery indicative of a plurality of predetermined positions into which said receptacle may be urged, and a spring pressed plunger for seating engagement with said scallops to hold said receptacle fixedly in one of said predetermined positions unless manually forced, said scallops presenting cam surfaces when said receptacle is out of a predetermined position whereby said plunger is urged by its spring to seat in said scallops and thereby to pivot said receptacle into a predetermined position.

1,783,631. INSECT TRAP. ALEXANDER C. SLADKY, Milwaukee, Wis., assignor to National Enameling and Stamping Company, Milwaukee, Wis. Filed Feb. 25, 1930. Serial No. 431,128. 4 Claims. (Cl. 43—107.)



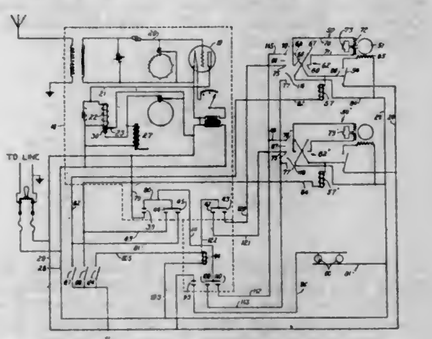
1. A device of the class described including a receptacle, a housing mounted upon the receptacle, a funnel-shaped member supported by the housing and having its restricted end portion extending into the receptacle, a bait receptacle carried by the funnel member, said funnel member having passageways formed therein above the bait receptacle, and a plurality of transparent obstructions supported at the open mouth of the funnel and extending above the same.

1,783,632. SPALL-BURNING KILN. MARY E. SQUIRE, Manitowoc, Wis. Filed Nov. 25, 1927. Serial No. 235,604. 1 Claim. (Cl. 222—3.)



A kiln comprising a casing having an interior passageway, there being a feed opening and a discharge opening in connection with said passageway, said passageway comprising an upper substantially vertically extending chamber having one pair of opposite walls diverging downwardly, an intermediate chamber of a uniform width equal substantially to the distance between the lower portions of the diverging walls of the upper chamber, said intermediate chamber extending at an angle with respect to the upper chamber, and a lower chamber extending substantially vertically from said intermediate chamber and having one pair of opposite walls converging downwardly.

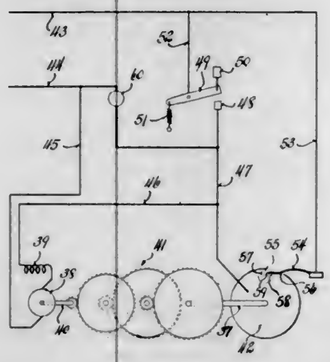
1,783,633. LIGHT-CONTROL SYSTEM. DUNCAN J. STEWART, Rockford, Ill., assignor to Howard D. Colman, Rockford, Ill. Filed Mar. 23, 1927. Serial No. 177,555. 14 Claims. (Cl. 177—353.)



6. A system for controlling the lighting circuit of a building having a door comprising, in combination, an electromagnet, means actuated by successive energizations of said magnet to alternately open and close said circuit, a switch in the energizing circuit of said magnet, and a pair of conductors interposed in parallel relation between said magnet and said switch, one of said conductors including a switch arranged to be open and closed when said door is in open and closed positions re-

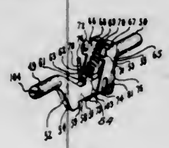
spectively and a second switch which is open when said lighting circuit is closed and closed when said lighting circuit is open, said other conductor including a switch which is open when said door is in closed position and closed when the door is in open position and a switch which is open when said lighting circuit is open and closed when said lighting circuit is closed.

1,783,634. CONTROL MECHANISM FOR ELECTRIC MOTORS. VERNON L. TANNEHILL, Fort Wayne, Ind., assignor to Fort Wayne Engineering and Manufacturing Company, Fort Wayne, Ind. Filed May 2, 1927. Serial No. 188,175. 1 Claim. (Cl. 200—33.)



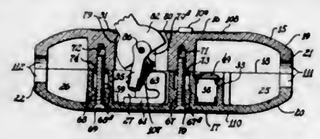
An electric control for motors including a disc provided with a cut-away part forming a radial shoulder and a flat face at right angles to the shoulder, said disc having an opening adjacent the shoulder and face, an insulating block positioned within the opening, and having a shoulder aligning with the shoulder on the disc, a flat face on said block at right angles to the shoulder and disposed in a plane outwardly of the plane of the flat face on the disc and a second flat face on the block disposed inwardly of the flat face on the disc.

1,783,635. ELECTRIC SNAP SWITCH. WILLIAM C. TREGONING, Milwaukee, Wis., assignor, by mesne assignments, to Cutler-Hammer, Inc., a Corporation of Delaware. Filed Mar. 3, 1928. Serial No. 258,838. 17 Claims. (Cl. 200—72.)



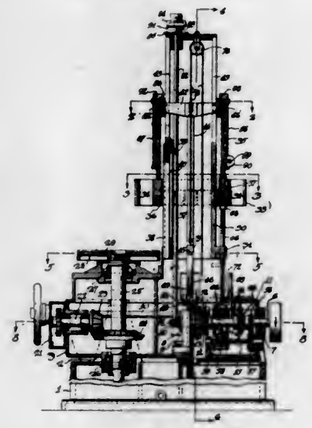
1. In an electric snap switch, in combination, an insulating base, a substantially loop-shaped switching member adapted for oscillating movement, an actuating member extending on each side of said switching member and adapted for rectilinear movement, integral abutments on each of said members, a helical compression spring interposed between said abutments to cause oscillating movement of said switching member upon rectilinear movement of the actuating member, said members having integral interengaging portions to provide for assembly of the same and said spring as a unit prior to attachment thereof to said base, and cooperating means on said base and said switching member to provide a fixed pivotal connection therebetween.

1,783,636. ELECTRIC SNAP SWITCH. WILLIAM C. TREGONING, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a Corporation of Delaware. Filed Aug. 15, 1929. Serial No. 386,146. 12 Claims. (Cl. 200—67.)



12. In an electric snap switch mechanism of the multiple circuit controlling type, in combination, a sheet metal punching of substantially T-shape, a substantially U-shaped contactor and an actuating lever therefor pivotally supported on each of the horizontal arms of said punching, compression springs interposed between the respective levers and contactors to effect snap movements of the latter independently of each other upon corresponding movements of the former, an insulating casing section having notches to receive said T-shaped punching with a press fit with the aforementioned elements assembled thereon, and a second insulating casing section having a part to engage the vertical arm of said punching to positively retain the latter in assembled relation to the first mentioned casing section.

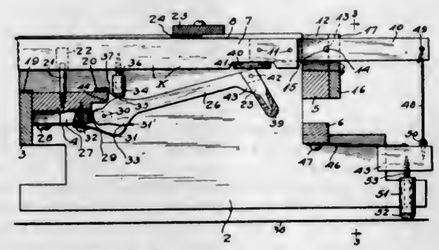
1,783,637. VERTICAL TURRET LATHE. OSCAR G. TWEDDELL, Detroit, Mich., assignor of sixty per cent to Frederich Fiesselmann, Detroit, Mich. Filed Apr. 13, 1929. Serial No. 354,772. 11 Claims. Cl. 29—41.)



1. In a machine of the character described, the combination of a work support rotatable upon a vertical axis, a vertical tubular column positioned laterally of said work support, a turret reciprocable upon said column and rotatable thereon in a horizontal plane, said turret being adapted to carry a plurality of tools, means on said column to engage and hold said turret against rotation during a portion of the reciprocative stroke of said turret, said turret being adapted to move out of engagement with said means to permit rotation of said turret during a portion of said stroke, means for imparting rotation to said work support and simultaneously moving said turret in a downward direction to engage said turret holding means and prevent rotation of said turret on said column during the feeding of the tools to the work, means operated by the downward movement of the turret for stopping the transmission of movement to said work support and turret at the lower end of the stroke of said turret, separate means for imparting upward movement to said turret, and means engaged by said turret at the upward end of its stroke for imparting an indexing movement to said turret.

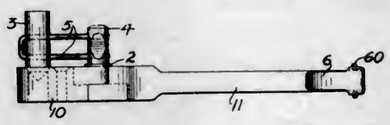
11. In a machine of the character described, the combination of a work support including a vertical shaft, a horizontal power shaft, a horizontal motion transmitting shaft for transmitting motion to said vertical shaft, change speed mechanism for transmitting motion from said power shaft to said horizontal shaft, a hollow vertical column, a horizontally disposed turret reciprocable and rotatable upon column, means for reciprocating said turret extending upwardly in said column, change speed mechanism for transmitting motion to said turret reciprocating means, means operated by downward movement of said turret for effecting a disconnection between said turret reciprocating means and said change speed mechanism at the lower end of the downward movement of said turret, a vertical shaft in said column driven by said power shaft, means at the upper end of said column for rotating said turret with a step by step movement, and a clutch for transmitting motion from said vertical shaft in said column to said turret rotating means, said clutch being controlled in its operation by the upward movement of said turret.

1,783,638. MUSICAL INSTRUMENT. JOSEPH N. VASEY, Brookfield, Ill. Filed Oct. 8, 1926. Serial No. 140,253. 7 Claims. (Cl. 84—323.)



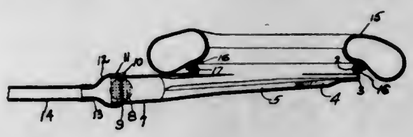
1. In a stringed musical instrument of the class described, the combination of a row of keys, a hinge plate for each key extending rearwardly therefrom in a plane disposed at right angles to the plane of said row of keys, a supporting bar having a row of slots one for each of said hinge plates in which slots said plates are disposed, said bar having a longitudinal groove, a hinge pin extending through said hinge plates and seated in said groove, and means for securing said hinge pin in said groove, said hinge plates and hinge pin hinging said keys to said bar and said slots guiding the movement of said keys.

1,783,639. TUBE-FLANGING WRENCH. JAMES CANNY and HOWARD BLONDEAU, Seattle, Wash. Filed July 1, 1929. Serial No. 375,047. 12 Claims. (Cl. 153—79.)



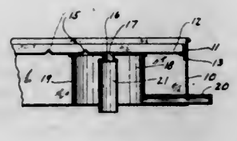
3. A tool for the purpose specified, comprising a complemental pair of gripping dies, a drift pin, and means supporting said drift pin from said dies for movement into and from axial alinement with said die and pipe held therein, and permitting rectilinear axial movement of said drift pin when in alinement with the die.

1,783,640. HOSPITAL APPLIANCE. LAURA A. CHAMBERS, St. Louis, Mo. Filed Nov. 20, 1929. Serial No. 408,629. 12 Claims. (Cl. 4—113.)



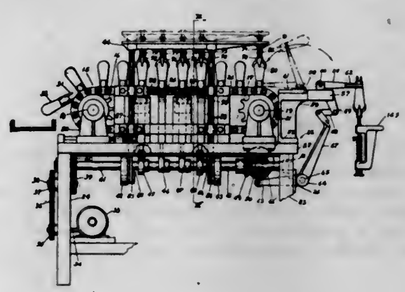
1. In a device of the character described, a pan of relatively rigid material, a cushion overlying the edge of said pan and surrounding said pan so as to rest upon the surface which also supports said pan, and means detachably securing said cushion to the outside of said pan, said pan being removable downwardly from said cushion when said means is detached.

1,783,641. LIQUID COOLER. ANNIE CONLEY, Eau Claire, Wis. Filed Jan. 23, 1929. Serial No. 334,419. 7 Claims. (Cl. 257—188.)



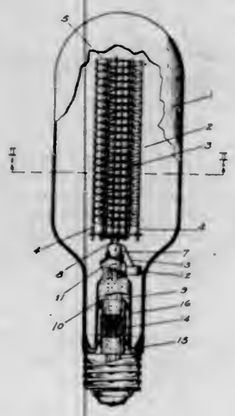
4. A cooler including a pan, an overflow compartment for the pan provided with a drain, a tray adapted to float upon coolant in the pan, a conduit extending from without the pan through the overflow compartment, and an outlet for the tray for delivering the contents of the tray into the conduit, said conduit and said outlet being spaced from the path of coolant overflowing into the outlet compartment.

1,783,642. AUTOMATIC SOLDERING MACHINE. JOHN E. FERGUSON, Bloomfield, ROBERT W. CONN, Vauxhall, and WALTER ALVAH HOFFMAN, Bloomfield, N. J., assignors to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Nov. 2, 1928. Serial No. 316,652. 8 Claims. (Cl. 113—59.)



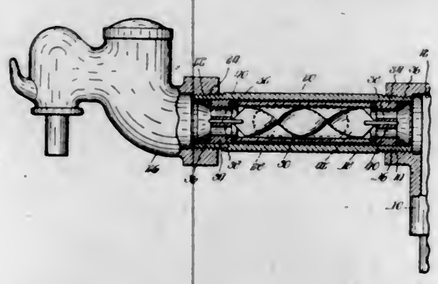
1. A machine for applying solder to the contact elements of radio tubes or the like comprising a container, molten metal in said container, means for removing the surface layer from said molten metal, a dipper, means for moving said dipper into said molten material after the surface layer thereof has been removed, means for removing said dipper to bring a portion of clean material adjacent to a radio tube and means for moving said tube to insert the ends of the contact elements thereof into the molten material in said dipper.

1,783,643. ULTRAVIOLET LAMP. MILAN W. GARRETT, Bloomfield, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed July 20, 1927. Serial No. 207,085. 10 Claims. (Cl. 250—35.)



1. A source of ultra-violet radiations comprising an envelope containing electrodes between which a discharge may be passed and a filling of a monatomic gas in said envelope containing an admixture of nitrogen, said envelope being composed of a material transparent to the particular ultra-violet radiations desired.

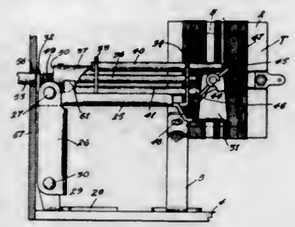
1,783,644. VISIBLE FLOW INDICATOR. BENJAMIN F. GEYER and ROBERT J. JAUCH, Fort Wayne, Ind., assignors to Wayne Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Oct. 5, 1929. Serial No. 397,593. 7 Claims. (Cl. 116—117.)



1. In a fitting adapted to be associated with a fluid conducting member, the combination of a tubular housing having a window therein, and a spiral member mounted adjacent said window and adapted to be moved by flow of fluid in said housing whereby said spiral member may be viewed from said window.

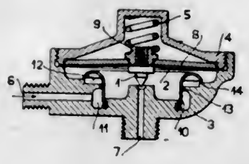
1,783,645. CONTROL DEVICE. MARTIN B. GROUT, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 4, 1927. Serial No. 172,744. 10 Claims. (Cl. 74—14.)

1. A device of the character described including a shaft adapted to be rotated, a rocking member secured to said shaft, a second shaft mounted at right angles to said first shaft, a supporting bracket for said second shaft, means for pivotally supporting said bracket, a cam member attached to said second shaft, and sliding means lying between said cam and said rocking member and spring pressed into engagement respectively with said cam and



said rocking member for connecting said cam member to said rocking member on said first shaft for rotating the same when said second shaft is rotated.

1,783,646. STOP VALVE. OTTO HAJEK, Vienna, Austria, assignor to the Firm of Alex. Friedmann, Vienna, Austria. Filed Dec. 31, 1926, Serial No. 158,382, and in Austria Apr. 13, 1926. 3 Claims. (Cl. 137—53.)

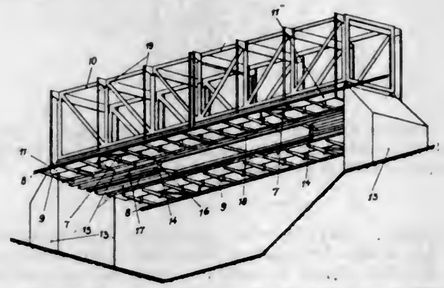


2. A stop valve mechanism for controlling small quantities of fluid comprising a casing, a pressure chamber therein and a flexible diaphragm with a central opening within said casing closing said pressure chamber and firmly clamped at its peripheral edge within said casing, a stop valve clamping the central part surrounding the central opening of said diaphragm, a recess within each of said parts clamping the diaphragm, immediately above the part clamping the diaphragm, a supporting member for said diaphragm having substantially the same shape, covering its entire surface and permanently held against said surface by the recesses in the clamping parts immediately above the diaphragm, said supporting member being inserted with its peripheral and central edges loosely held between the diaphragm and within the recesses of the clamping parts immediately above the diaphragm, so that during movement of the diaphragm the support will follow exactly said movement without leaving the surface of said diaphragm and without impairing the free movement of the same, the supporting member consisting of a plate provided with slots beginning at one of the peripheral edges and dividing said supporting member into sections capable of relative limited movement to provide a limited flexibility of the supportng member and permit deformation of the diaphragm backed by said plate to a given extent but protecting said diaphragm against irregular and excessive deformation.

1,783,647. MANUFACTURE OF METALLIC NITRATES. FRIEDRICH AUGUST HENGLEIN, Cologne-Deutz, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Nov. 28, 1927, Serial No. 236,379, and in Germany Dec. 8, 1926. 6 Claims. (Cl. 23—102.)

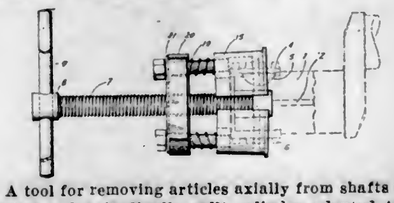
1. In the process of producing metallic nitrates the step which comprises causing oxygen to react upon metallic nitrites in the presence of water at a pressure exceeding one atmosphere and at a temperature exceeding 150° C. in the presence of an alkali metal hydroxide.

1,783,648. RAIL SUPPORTING STRUCTURE FOR LONG SPANS FOR HIGH-SPEED SUSPENDED VEHICLES. FRITZ HEYNER, Hanover, Germany, assignor to Franz Kruckenberg, Hanover, Germany. Filed July 29, 1929, Serial No. 381,956, and in Germany Aug. 25, 1927. 12 Claims. (Cl.104—124.)



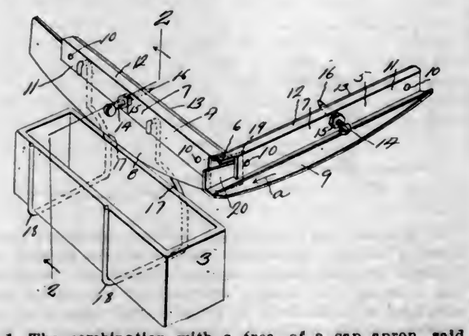
1. In a rail structure, the combination of a main structure, a plurality of auxiliary carriers arranged end to end supported by said main structure and movable longitudinally with respect thereto, and means anchored to the ground for holding one point on each of said auxiliary carriers longitudinally fixed.

1,783,649. AXIAL PULLING TOOL. JAMES W. HOWELL, Cleveland, Ohio. Filed Mar. 8, 1928. Serial No. 259,948. 3 Claims. (Cl. 29—85.)



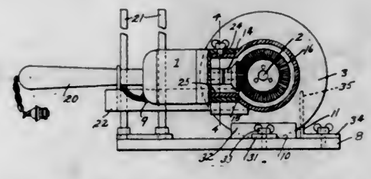
1. A tool for removing articles axially from shafts which comprises a longitudinally split cylinder adapted to surround a part of an article to be removed, each sector of the cylinder being provided with an inwardly directed flange for engaging projections on the article, a continuous ring slidable on to the exterior surface of said cylinder to retain the halves thereof closely together, longitudinal-pressure-exerting means extendable into the hollow of said cylinder to engage the end of the shaft, a transverse member carried by said pressure-exerting means and longitudinally spaced from said split cylinder, and tension-transmitting connections between said transverse member and each of said segments.

1,783,650. TURPENTINE APRON. JESE O. HUXFORD, Perry, Fla. Filed July 9, 1929. Serial No. 376,952. 3 Claims. (Cl. 47—11.)



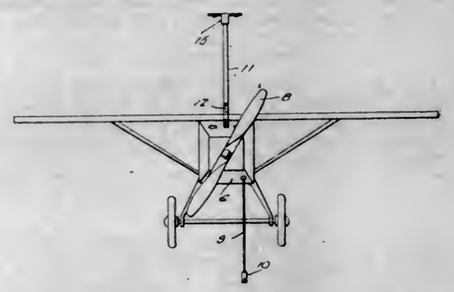
1. The combination with a tree, of a sap apron, said apron comprising hingedly connected sections, said sections having sharpened flanges embedded in the tree for substantially their full length, piercing members carried by the sections and adapted to be embedded in the tree beyond the depth of the bark of the tree, a sap cup carried by one of said sections and sap deflecting means carried by both of said sections and forming means whereby sap is deflected into said cup.

1,783,651. KITCHEN UTENSIL. HOMER R. JOHNSON, Los Angeles, Calif. Filed July 15, 1929. Serial No. 378,200. 10 Claims. (Cl. 259—1.)



1. A kitchen utensil comprising a motor, a tool shaft driven by said motor, means for securing a food tool to said tool shaft and means for turnably adjusting said motor on its axis.

1,783,652. ELECTRIC FAN. PETER N. KARABATSOS, Oak Park, Ill., assignor of one-half to Emanuel Demeur, Oak Park, Ill. Filed Dec. 6, 1928. Serial No. 324,217. 1 Claim. (Cl. 230—254.)



An electric fan comprising in combination a miniature airplane having an electric motor mounted in its forward end, a propeller blade rotatably mounted at the forward end of the airplane and operatively connected with the motor, a tubular member extending upwardly from the airplane, a right angle brace for the lower end of the member to rigidly secure the same and an attaching bracket pivotally carried at the upper end of the member to provide suspension means for the airplane, said tubular member providing a conduit for the circuit wires of the motor.

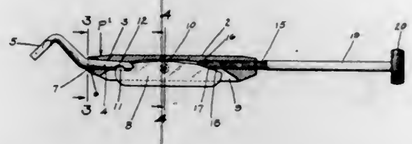
1,783,653. ADJUSTABLE HOUSING. EDWARD J. KEARNEY, Wauwatosa, Wis., assignor to Kearney & Trecker Corporation, West Allis, Wis. Filed Mar. 8, 1928. Serial No.260,107. 3 Claims. (Cl. 74—56.)



1. The combination for a machine having a frame and a pulley rotatably supported therefrom, of a hollow housing for a belt engaging said pulley, said housing being supported from said frame and including wall members form-

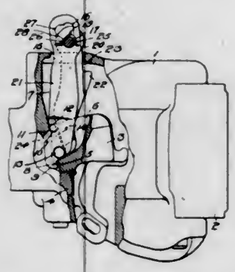
ing a plurality of channels spaced apart, other wall members alternatively movable to different positions relative to said channels and adapted when in one position to form therewith a plurality of closed passageways respectively for oppositely moving belt runs, and when in another position to form with said channels a single closed passageway for both belt runs.

1,783,654. DENTAL INSTRUMENT. WILLIAM A. KELSEY, Minneapolis, Minn. Filed Oct. 10, 1927. Serial No. 225,358. 6 Claims. (Cl. 279—77.)



1. In a dental instrument, the combination of an elongated body shaped to provide a finger grip for the instrument, a tool-receiving socket in one end of said body having its axis disposed at an angle with respect to the axis of said body to prevent relative rotation of the instrument when held in the hand of an operator and lateral pressure is brought to bear thereon, a threaded socket in the opposite end of said body adapted to receive a locking screw, and a locking member mounted in said body and adapted to be engaged by said locking screw whereby said locking member may be moved into locking engagement with the tool shank to secure it to said body.

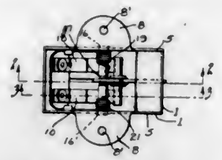
1,783,655. CAR-COUPLER MECHANISM. WILLIAM KELSO, Pittsburgh, Pa., assignor to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Sept. 5, 1928. Serial No. 304,067. 7 Claims. (Cl. 213—127.)



1. In car coupler mechanism, the combination of a coupler head, a rotatable knuckle, a lock for the knuckle, a lock lifter member movably connected to said lock and extending upwardly therefrom through the coupler head, an uncoupling lever device having an upwardly movable inner end portion adapted to actuate said lifter member to cause the latter to move said lock to unlocked position, and means extending through the top wall of the coupler head and adapted to cooperate with said head to prevent accidental uncoupling movement of the said end portion of the uncoupling lever device.

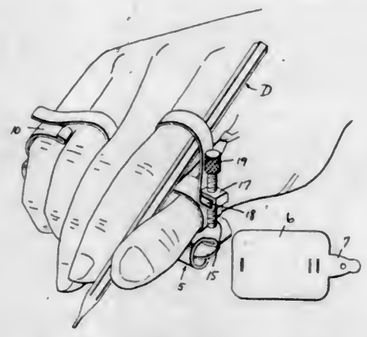
1,783,656. ELECTRIC SWITCH. AUGUST KRASTIN, Cleveland, Ohio. Filed Apr. 4, 1928. Serial No. 267,177. 5 Claims. (Cl. 200—161.)

1. In an electric switch, a casing, a pin carried thereby having a reduced portion intermediately of its ends, an arm pivotally mounted upon the pin and having a through opening loosely fitting the pin at the reduced portion, electric conductive means carried by the arm and



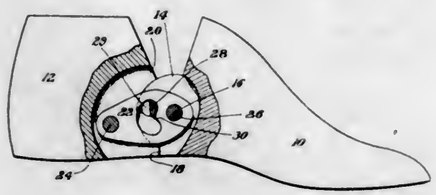
electrically insulated from the arm, and a pair of spring contacts carried by the casing in position to be engaged by said means in one position of the arm.

1,783,657. DEVICE FOR TEACHING PENMANSHIP. ROY ALBERT KUNTZLEMAN, Barberton, Ohio. Filed Apr. 19, 1930. Serial No. 445,715. 3 Claims. (Cl. 35—8.)



1. In a device for teaching penmanship, a metallic strap curved upwardly and inwardly at one end, said strap intermediate its ends provided with an elongated slot, said strap at its opposite end being curved downwardly and inwardly to provide a thumb loop, and said opposite end of the strap passed upwardly through said slot and then bent forwardly upon itself to provide a loop for receiving the index finger of the writing hand, the portion of the strap inclining downwardly from the slot to said first mentioned end adapted to support thereon the remaining three fingers of the writing hand.

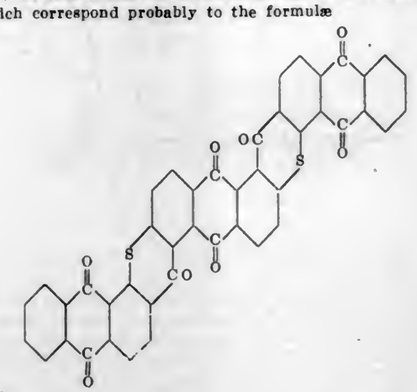
1,783,658. HINGE LAST. HARRY W. LUCAS, Holbrook, Mass., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me., a Corporation of Maine. Filed Nov. 12, 1921. Serial No. 514,722. 25 Claims. (Cl. 12—136.)



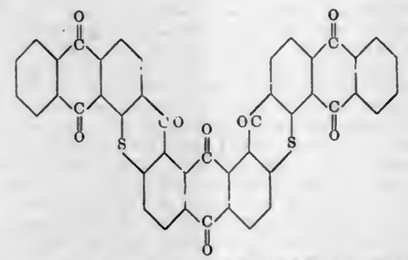
1. A hinged last comprising a forepart, a heel part and r bonding member connecting them relatively movable to collapse the last, and a resilient transversely extending pin engaging the bonding member and constructed and arranged to be distorted by stress exerted upon it by the bonding member in the collapsing movement of the last and thereby resist the collapsing movement.

1,783,659. ANTHRAQUINONE-THIOXANTHONE VAT DYESTUFFS. ARTHUR LÜTTRINGHAUS and FILIP KAČER, Mannheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Mar. 6, 1928, Serial No. 259,603, and in Germany Mar. 10, 1927. 2 Claims. (Cl. 260—53.)

1. As new articles of manufacture the yellow dyestuffs, which correspond probably to the formulæ

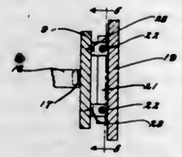


and



and dye cotton strong yellow shades and are obtainable by treating with a dehydrating agent a bis-(2'-carboxy-anthroquinonyl-1'-) dimercapto-β-anthraquinone in which the two substituted β-positions are not vicinal.

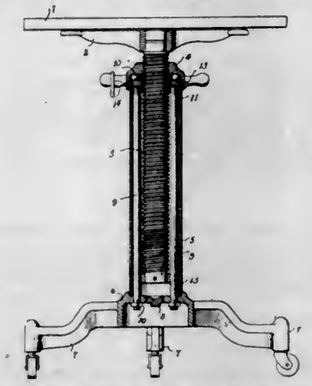
1,783,660. FOLDING TABLE AND BENCH. MICHAEL MAES, Cincinnati, Ohio. Filed Aug. 10, 1928. Serial No. 298,674. 4 Claims. (Cl. 155—83.)



1. In combination with a suitable mounting, a foldable bench comprising a seat member, supports pivoted thereon, a link pivoted to and connecting the supports, perforate bearings fixed upon one of the supports, blocks fixed upon the mounting, one of the blocks being positioned beneath and adjacent an end of said seat member, and rods fixed between the blocks and passing through said perforate bearings.

1,783,661. ADJUSTABLE TYPEWRITER STAND. ALEXANDER MAKOSKI, JOSEPH W. MAKOSKI, and WALTER J. MAKOSKI, Grand Rapids, Mich.; said Alexander Makoski and said Joseph W. Makoski assignors to said Walter J. Makoski. Filed May 16, 1927. Serial No. 191,842. 2 Claims. (Cl. 45—11.)

2. An adjustable typewriter stand comprising a top, a threaded stem depending from the top, a pedestal comprising a base and standard, a ring fitted to the upper end of the standard and having an annular groove formed in its outer edge, tie rods within the standard and forming connecting means between the ring and base, elements projecting from the sides of the threaded stem and engaging the said tie rods to direct the stem in its vertical move-

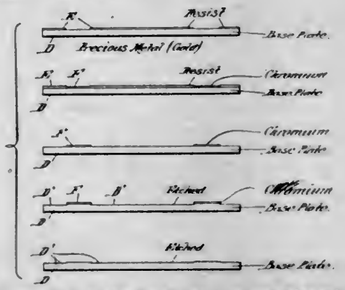


ment and prevent turning thereof, a nut mounted upon the said ring and embracing the same and receiving the threaded stem, ball bearings between the ring and nut and housed by the latter, and screws threaded into a side of the nut and entering the annular groove of the said ring.

1,783,662. HIGHLY-ACTIVE CATALYST. KARL MARX, HERMANN BEHNCKE, and KARL BRODERSEN, Dessau in Anhalt, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Nov. 29, 1927, Serial No. 236,582, and in Germany Dec. 14, 1926. 4 Claims. (Cl. 23—236.)

1. The process for manufacturing a catalytically acting metal which comprises acting with a gas containing hydrogen under a pressure of at least 20 atmospheres upon a solution of a salt of the said metal in the presence of a base of the group consisting of ammonia, organic bases and acid amides.

1,783,663. ETCHING PRECIOUS METALS. JAMES C. MCFARLAND, Fort Thomas, Ky., assignor to The Wadsworth Watch Case Co., Dayton, Ky., a Corporation of Kentucky. Filed June 22, 1928. Serial No. 287,538. 3 Claims. (Cl. 42—43.)

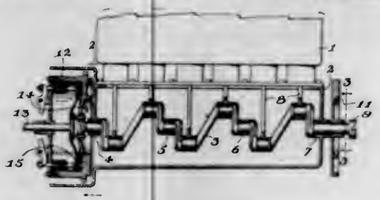


1. The method of eaching precious metals, which comprises: applying to the surface of the metal a chromium plating adapted to serve as a resist to the etching fluid for the precious metal; etching the exposed surface of the precious metal while said plating design serves as a resist; and removing the chromium plating.

1,783,664. SHAFTING FOR ENGINES. PETER F. MCGOVERN, Weehawken, N. J. Filed Mar. 26, 1929. Serial No. 350,038. 1 Claim. (Cl. 74—38.)

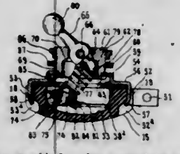
In an automotive engine, a crank shaft, a series of cylinders arranged at one side of said shaft, a series of

piston rods connected to the crank shaft and extending into said cylinders, a fly-wheel rigidly connected to one end of said shaft, a disk of substantially the same diameter as the fly-wheel, fixedly mounted on the other end of



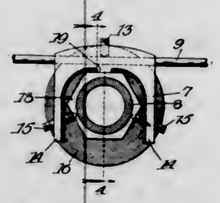
the shaft, and oppositely disposed counter-weights mounted respectively on said fly-wheel and on said disk, each counter-weight being of arc-shape and extending circumferentially substantially 180 degrees only.

1,783,665. ELECTRIC SWITCH. GEORGE J. MEUER, Milwaukee, Wis., assignor, by mesne assignments, to Cutler-Hammer, Inc., a Corporation of Delaware. Filed Nov. 16, 1928. Serial No. 319,943. 23 Claims. (Cl. 200—67.)



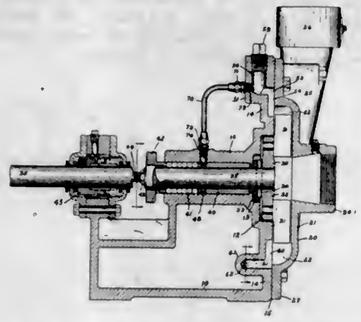
1. In an electric switch, in combination, an insulating base having a recess in one face thereof, a combined stationary contact and terminal member, said member comprising a reflexed metallic strip of equal width throughout its length, the terminal end of said member being seated edgewise upon a ledge within said recess and having its upper edge substantially flush with said face of the base, a metallic cover member secured to said base, an insulating plate interposed between said cover member and said base, an oscillatable and freely rotatable contactor carried by said cover member, and means also carried by said cover member for effecting snap movement of said contactor into and out of engagement with said stationary contact.

1,783,666. SUPPORTING BRACKET. JOHN A. MORTHLAND, Forest Park, Ill. Filed Oct. 12, 1927. Serial No. 225,704. 7 Claims. (Cl. 248—20.)



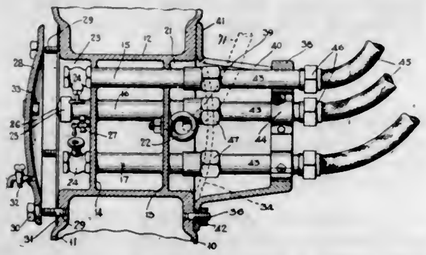
5. A supporting bracket for application to a faucet formed of a yoke-portion having depending spaced apart legs at which the bracket is adapted to straddle the horizontal pipe portion of a faucet and seat at its cross-bar portion upon said faucet, an arm mounted in the upper part of said yoke portion and extending laterally therefrom substantially horizontally and adjustable lengthwise in said yoke-portion, and upwardly converging set screws engaging the legs of said yoke-portion in position to engage the faucet below the center of said pipe portion, said set screws operating to draw the cross-bar portion of said yoke portion down against the faucet, the engagement of said cross-bar portion and said screws with said faucet affording a three-point contact.

1,783,667. CENTRIFUGAL PUMP. ALEXANDER V. MUELLER, Salem, Ohio, assignor to The Deming Company, Salem, Ohio, a Corporation of Ohio. Filed Jan. 28, 1930. Serial No. 423,960. 2 Claims. (Cl. 103—103.)



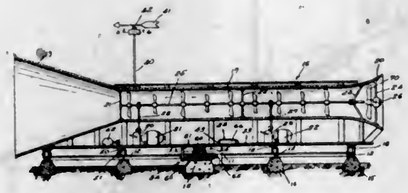
2. In a centrifugal pump, the combination of a pump casing terminating in a substantially vertical plane, a shaft mounted in said casing, an impeller on said shaft, an impeller casing having an internal volute chamber and a surrounding flange, said flange terminating in a substantially vertical face and abutting the vertical plane of the pump casing, there being a central admission passageway and a tangential discharge passageway to and from the impeller chamber, means for holding the impeller casing in various angular positions on the pump casing, a downwardly extending receptacle on the upper portion of the pump casing in communication with a port in the pump casing terminating at said vertical plane, a tubular conduit leading from said receptacle to the bearing for the shaft, a draining passageway located in the lower portion of the pump casing and terminating in a port at said vertical plane, the priming and draining ports being substantially diametrically opposite each other and elongated in a vertical direction and overlapping the impeller chamber.

1,783,668. TRANSMITTING TUBE FOR SUBMARINES AND LIKE VESSELS. CHARLES A. OHMAN and WILLIHARD T. OHMAN, Great Kills, N. Y. Filed Feb. 23, 1928. Serial No. 256,151. 13 Claims. (Cl. 114—16.4.)



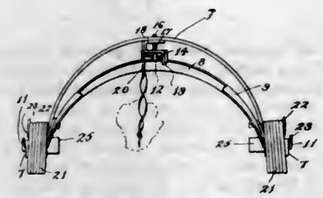
1. The combination with the hull or bulkhead of a vessel, of a passage adapted to place one compartment of a vessel in communication with the exterior of the vessel, the outer end of said passage being contained within the boundaries of the hull, a cover plate normally closing the outer end of said passage, means for closing the inner end of said passage, means involving a flexible tube and a coupling on the end of said tube adapted to be coupled with the ship when said cover has been removed, for placing said flexible tube in communication with said passage, said flexible tube extending to atmosphere whereby when the inner end of said passage is open, devices, elements, and products may be transmitted through said tube and passage into the compartment of the vessel, and means coupled with the exterior of the hull for guiding and reinforcing the flexible tube and the coupling thereof.

1,783,669. AIR MOTOR. DEW R. OLIVER, Los Angeles, Calif. Filed May 18, 1927. Serial No. 192,291. 4 Claims. (Cl. 170—5.)



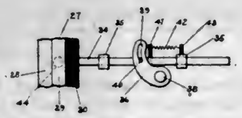
1. A device of the character described comprising an elongated tubular member having a funnel-shaped induction end and a flared eduction end, a central longitudinal shaft mounted in said member, propellers on said shaft and a fan in said flared eduction end of said tubular member, and means for rotating said fan.

1,783,670. TRAP. MARTIN J. PETERSEN, Canyon, Minn. Filed Sept. 23, 1929. Serial No. 394,561. 8 Claims. (Cl. 43—89.)



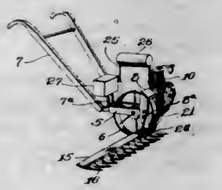
1. A trap comprising a body, jaws pivoted to said body and movable from a closed to an open position, a latch to releasably secure the jaws opened, a keeper having a flange for engagement by said latch increasing in depth toward one side, a trigger to move the latch to a releasing position including a bait holder, means to close the jaws when released, and means to suspend the body from a support with the jaws extending downwardly therefrom.

1,783,671. SELECTOR TUNING DEVICE. JOHN O. PRESCOTT, Glenbrook, Conn., assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn., a Corporation of New York. Filed Nov. 22, 1929. Serial No. 409,007. 27 Claims. (Cl. 116—124.4.)



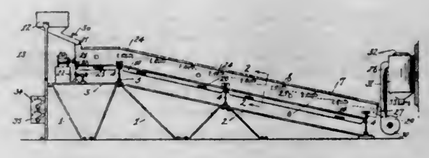
1. In combination, a movable radio dial, and means associated with the dial to visually indicate thereon the location of a station when a radio set with which the dial is associated has been properly tuned in on said station, said means including a reciprocating marker associated with the dial and movable transversely thereacross.

1,783,672. MOWING MACHINE. SILAS E. RAWLS, Streator, Ill., assignor to Rawls Manufacturing Company, a Corporation of Illinois. Filed Feb. 20, 1928. Serial No. 257,951. 11 Claims. (Cl. 56—271.)



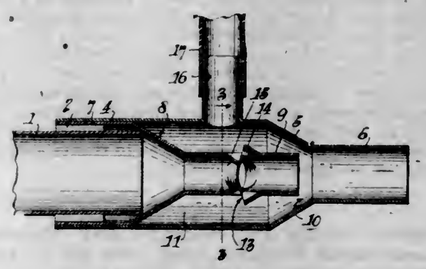
1. A mowing machine comprising a medial traction element, a power plant on one side thereof, a mowing implement on the other side, and a handle unit to the rear of said traction element and manageable to control the machine rockably in lateral directions.

1,783,673. CONTINUOUS COFFEE ROASTER AND STORER. ALBERT K. REHE, San Francisco, Calif., assignor of one-half to Reginald A. Kucich, San Francisco, Calif. Filed Sept. 4, 1929. Serial No. 390,306. 4 Claims. (Cl. 34—38.)



1. A continuous roaster comprising a casing, an inclined conveyor for carrying the articles to be roasted, magnetic means for oscillating the conveyor for causing the articles to move from one end thereof to the exit end, and electric heaters for roasting the articles, said conveyor having steps therein for causing the articles to be turned over as they advance from step to step, said electric heaters being placed in the rises and being inclined for sending heat rays against the tops and bottoms of said steps.

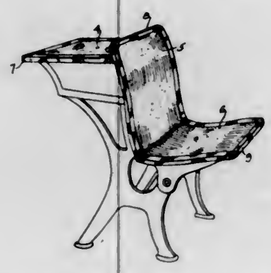
1,783,674. VACUUM-CLEANER ATTACHMENT FOR AUTOMOBILES. WALTON CLARENCE REHWOLD, Beverly Hills, and JAMES GORDON DUFF, Los Angeles, Calif. Filed June 1, 1929. Serial No. 367,817. 4 Claims. (Cl. 230—95.)



1. A device of the character described comprising a tubular body having an entrant end and a discharge end and having openings therethrough spaced radially about its body intermediately of its ends, said openings being formed by transversely slitting the body and bending the resulting lips nearest the discharge end outwardly and the resulting lips nearest the entrant end inwardly, a sec-

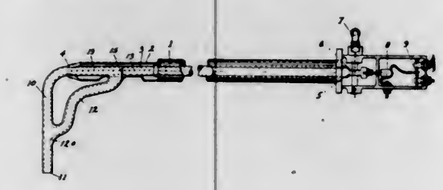
ond body surrounding the first mentioned body to form a surrounding vacuum chamber and having an open end extended beyond the discharge end of the first mentioned body, said extended open end being constricted as it passes said discharge end to provide a reduced diameter discharge extension and a restricted annular throatway surrounding said discharge end and means to removably secure the device upon an exhausting medium.

1,783,675. SCHOOL DESK AND SEAT COVER. SAMUEL J. ROBERTS, Scranton, Pa., assignor to John A. Schadt, Scranton, Pa. Filed Jan. 12, 1929. Serial No. 332,223. 6 Claims. (Cl. 155—182.)



1. A removable cover for a school desk part, a U-shaped clamping member of channel cross section adapted to hold the cover and desk part in fixed relationship to each other, notches in the cover for slidably receiving the clamping strip, cooperating interlocking means between the desk part and the clamping member for holding the desk, cover, and clamping member in detachable relationship.

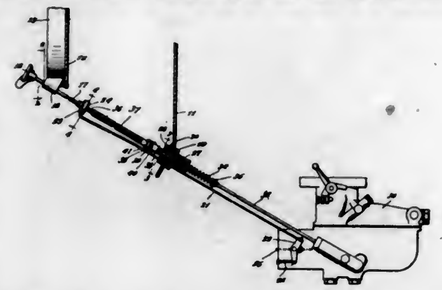
1,783,676. PILOT FOR FURNACES. OTTO H. RODENBERG, Cincinnati, Ohio. Filed July 15, 1929. Serial No. 378,320. 8 Claims. (Cl. 158—115.)



8. In combination in a gas pilot, a shell having an expansion tube therein provided with a series of orifices extending along the tube adjacent the end thereof, a discharge port for the pilot flame, and a branch pipe leading from the tube intermediate the orifices to said discharge port, said branch pipe having discharging means extending from a side wall whereby a feeding flame from the orifices to the discharge port is provided, said discharging means arranged at such a level in said pipe as to receive a supply of gas not consumed in said orifices.

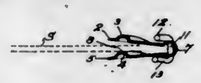
1,783,677. CHOKE AND NEEDLE-VALVE CONTROL. GLENN SELZER, Protection, Kans. Filed Feb. 27, 1930. Serial No. 431,925. 1 Claim. (Cl. 137—139.)

A choke and needle valve control mechanism comprising a bushing adapted to be secured to the dash of an automobile, a rod for manipulating the needle valve of a carbureter passing through said bushing, a spring on said rod bearing against said bushing and holding said rod at its lowest limit of movement through said bushing, a connecting link substantially square in cross section pivotally secured to said rod, a second rod having an extension substantially square in cross section slidably fitting in said connecting link, and terminating at one end in a button, a



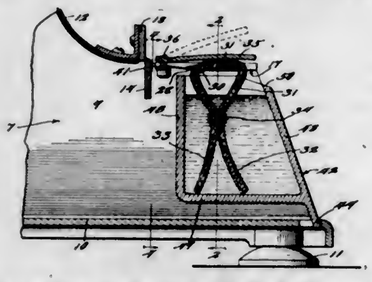
grooved collar on the last named rod, and a wire for manipulating the choke of a carbureter having a laterally disposed eye loosely encircling said grooved chair.

1,783,678. PAPER CLIP OR FASTENER. AI B. SHAW, Santa Monica, Calif., assignor, by direct and mesne assignments, to Dorothy M. Storey, Santa Monica, Calif. Filed Nov. 21, 1928. Serial No. 320,980. 1 Claim. (Cl. 2—250.)



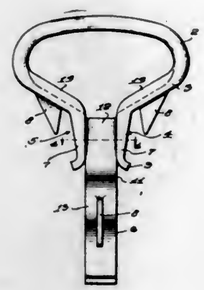
A clip or fastener including opposed gripping leaves connected by a folded, open-ply back-bone bearing forming part, and a vise consisting of a U-shaped wire spring whose cross-bar is straight and which is journaled as a diametrical pivot in the widely spaced plies of the folded back-bone so that maximum bearing length is provided along the pivot bar to secure support for the bar when the arms of the spring are in clamping position; the ends of the gripping leaves being provided with opposed concavo-convex gripping ridges lying in the sweep of the ends of the clamp arms.

1,783,679. MOISTENER FOR GUMMED STRIPS AND THE LIKE. RALPH R. SHAY, Chicago, Ill., assignor, by mesne assignments, to Thomas A. Banning, Jr., Chicago, Ill. Filed Jan. 28, 1928, Serial No. 250,258. Renewed Apr. 12, 1930. 4 Claims. (Cl. 91—54.4.)



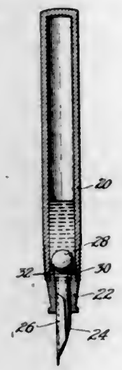
4. In a device of the class described, the combination of a water bath open at its top, and a paper guide and presser plate element above said water bath, the same comprising a lower plate having transversely extending slots across its front and rear portions, a capillary wick extending through said slots and lying across the top face of the plate and having its ends depending into the water bath, together with a presser plate above the wick, and the first mentioned plate, and having its rear portion loosely connected to the rear portion of the first mentioned plate, substantially as described.

1,783,680. COMBINED LIFTING AND CARRYING TOOL. ROBERT A. STEVENSON, Wilmington, Del. Filed May 3, 1930. Serial No. 449,484. 6 Claims. (Cl. 294—26.)



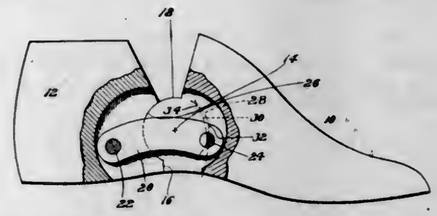
1. In a tool for handling simultaneously a plurality of containers having annular projections adjacent their upper ends, an integral rigid structure comprising a handle and main body portion and a plurality of spaced oppositely disposed jaw members, each jaw including a hook for engaging the annular projections on the containers and a lug spaced from the hook adapted to engage the inner upper surface of the container.

1,783,681. FOUNTAIN-PEN REFILL INDICATOR. OWEN R. TERRY, Detroit, Mich. Filed Jan. 17, 1930. Serial No. 421,455. 4 Claims. (Cl. 120—42.)



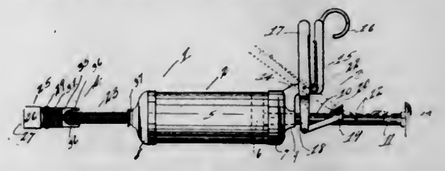
1. In a fountain pen, the combination of a comparatively long substantially cylindrical reservoir with at least one rigid wall, and a rigid member of slightly lesser cross-sectional area than the cross-sectional area of said reservoir and confined for free movement within said reservoir, the specific gravity of said member being slightly greater than that of ink, said member having a shallow groove cut in the surface thereof, the clearance between the body of said member and the walls of said reservoir being sufficiently great to permit said member to fall at a comparatively unimpeded rate when air is in said reservoir, and being sufficiently small to cause said member to be materially impeded when falling through ink in said reservoir, and thus by the intensity of its impact against the rigid wall of said reservoir indicate the quantity of ink contained in the reservoir.

1,783,682. HINGE LAST. GEORGE C. THOMAS, Swampscott, Mass., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me., a Corporation of Maine. Filed Nov. 18, 1921. Serial No. 516,194. 21 Claims. (Cl. 12—136.)



1. In a collapsible last, a hinge pin, means for exerting a lateral stress on the pin in collapse, the pin having a notch cut in that side toward which the stress of collapse tends to bend the pin.

1,783,683. CRACK FILLER. JULIAN D. TOMLINSON, College Place, Wash. Filed Dec. 8, 1928. Serial No. 324,773. 5 Claims. (Cl. 72—138.)



5. In a crack filler comprising a magazine, a force feeding mechanism in one assembly removably attached to said magazine, and a distributing means consisting of a flexible nozzle and means to render the nozzle non-flexible provided in one assembly and removably attached to said magazine.

1,783,684. TITANIUM ACID SULPHATE AND METHOD OF PRODUCING SAME. FOORD VON BICHOWSKY, Glendale, Calif., assignor to Titania Corporation, Los Angeles, Calif., a Corporation of California. Filed Nov. 20, 1928. Serial No. 320,762. 16 Claims. (Cl. 23—117.)

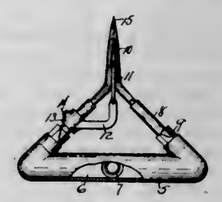
1. As a new composition of matter, the acid sulphates of quadrivalent titanium.

3. As new compounds, the acid sulphates of titanium corresponding to the general formula

$$R : HSO_4.Ti(SO_4)_2.nH_2O$$

where R is any metal of the alkali group of metals including hydrogen and where n is any number including zero.

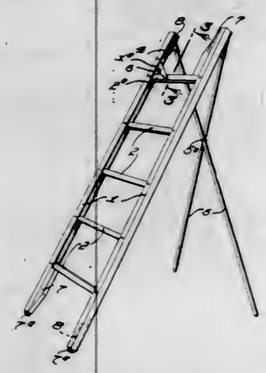
1,783,685. MUFFLER FOR BURNERS. EDGAR E. WAYLES, East Hartford, Conn. Filed Nov. 19, 1928. Serial No. 320,298. 3 Claims. (Cl. 158—113.)



3. A burner including a base having a chamber, an inlet to said chamber, a plurality of burners each having

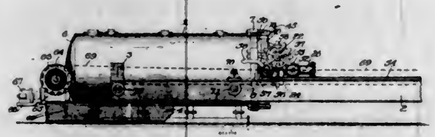
a passage communicating with said chamber and relatively inclined to project jets of fuel in intersecting paths, and a flat vertical baffle passing through the intersection of said paths so that the flames impinge against the flat faces thereof at an inclined angle and unite above the upper edge thereof.

1,783,686. FOLDING LADDER. SAMUEL F. WILLIAMS, San Diego, Calif. Filed Mar. 17, 1928. Serial No. 262,565. 2 Claims. (Cl. 228—37.)



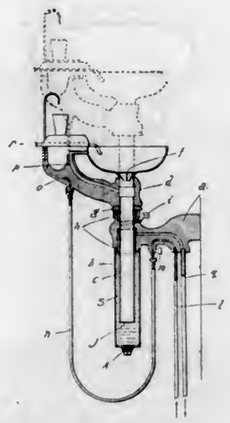
1. In a folding ladder, a pair of channel shaped rails, a plurality of rungs, the ends of said rungs adapted to extend within said channel shaped rails and pivoted thereto, an upper rung of width narrower than said other rungs, a catch member pivotally secured to the upper end of one of said guide rails and adapted to engage a lug positioned intermediate the ends of the upper rung for holding the ladder in open position, said rungs being adapted to be wholly enclosed within said guide rails when the ladder is in its folded position, said upper rung forming with the adjacent channel wall a space for receiving said catch member.

1,783,687. HEAD-LOCKING MECHANISM FOR CONTAINERS. WILLIAM E. WOOD, Alton, and WILLIAM H. BACHELDOR, Wood River, Ill., assignors to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed July 8, 1929. Serial No. 376,767. 16 Claims. (Cl. 220—24.)



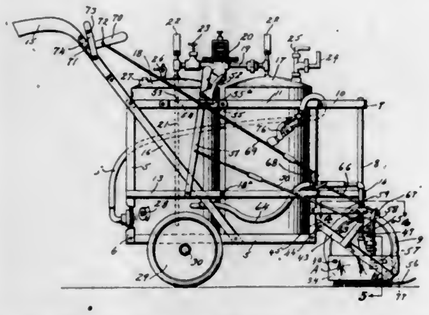
1. In a closed receptacle provided with a removable head for closing one end thereof, the combination of a fixed shaft protruding from the outside of said head, a tubular housing receiving said shaft, rotatable means within said housing and engaging said shaft, said rotatable means being adapted to move itself in a longitudinal direction relative to said shaft upon rotation of said rotatable means, whereby said housing is moved longitudinally relative to said shaft, means for locking said head to said tank, said locking means being operatively connected to said housing, whereby it is moved to locked and unlocked positions by the movement of said housing.

1,783,688. SPITTOON OF VARIABLE HEIGHT FIT FOR DENTISTS OR PHYSICIANS. LUIS WURLOD, Buenos Aires, Argentina. Filed Nov. 20, 1928, Serial No. 320,724, and in Argentina Sept. 25, 1928. 5 Claims. (Cl. 4—263.)



1. A device of the character described including a supporting bracket having a vertical bore in one terminal, a trap depending from the bracket and communicating with the bore, a discharge pipe movable axially and rotatably in said bore and extending into said trap, an arm carried by the upper terminal of said pipe, a spittoon bowl supported on said arm and communicating with said pipe, said bowl and arm being rotatable and movable axially with said pipe.

1,783,689. TRAFFIC-LINE MARKING AND STENCILING MACHINE. CLARENCE V. ANGIER, Jr., Atlanta, Ga. Filed Mar. 5, 1925. Serial No. 13,313. 15 Claims. (Cl. 91—44.)

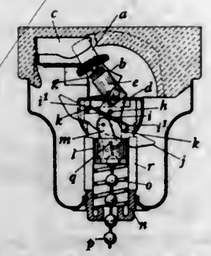


1. In a machine of the class described, the combination of a frame-work, rear wheels, and a forward wheel arranged substantially intermediate the rear wheels for supporting the frame-work, and a paint-applying mechanism arranged substantially along side the forward wheel and substantially in alignment with one of the rear wheels.

1,783,690. ELECTRIC SWITCH. REGINALD HOWARD BAKER and CECIL WILLIAM PARSONS, Aston, Birmingham, England. Filed July 29, 1929, Serial No. 381,859, and in Great Britain Nov. 7, 1928. 2 Claims. (Cl. 200—68.)

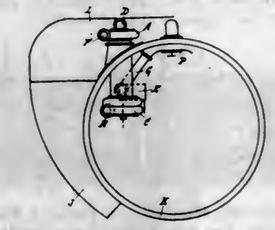
1. In electric switches of the kind specified, the combination comprising a movable contact, a toggle mechanism carrying said contact, a rocking member connected

with the toggle mechanism, a sliding piece, a spring for imparting to the sliding piece a movement in one direction, an operating element cooperating with the rocking member, a link pivotally connecting the operating element



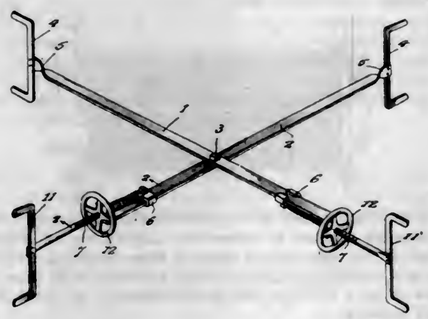
and sliding piece, and means attached to the link for imparting to the sliding piece a movement in the opposite direction to that effected by the spring, said element having two hook-like pieces adapted alternately to engage the ends of the rocking member, substantially as described.

1,783,691. SUBMARINE BOAT. GEORG JOACHIM KARL BEHRMANN, Rijswijk, Netherlands, assignor to Naamlooze Vennootschap Ingenieurs Kantoor voor Scheepsbouw, The Hague, Netherlands. Filed Nov. 21, 1928, Serial No. 320,969, and in Germany Nov. 22, 1927. 5 Claims. (Cl. 114—16.)



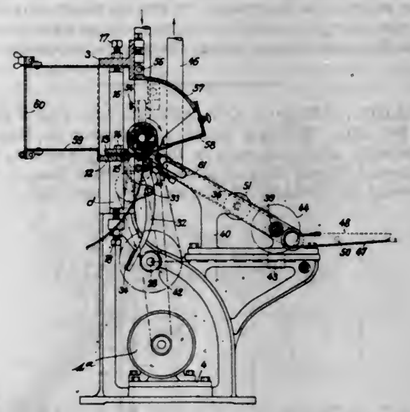
5. In a submarine boat, turbines, impelled by the exhaust gases of Diesel motors, and compressors, of which only the turbines are arranged outboard.

1,783,692. REEL. HARM H. BENSEMA, Gilman, Ill. Filed Aug. 21, 1929. Serial No. 387,440. 4 Claims. (Cl. 242—113.)



3. A reel comprising crossing bars having one end flanged and formed with an opening, a fork at the opposite end, a slide on the flanged end, a screw mounted in the flange and secured to the slide, a coil spring on the screw confined between the flange and slide, a wheel threaded on the screw and engaging the outer side of the flange, and a fork at the outer end of the screw.

1,783,693. METHOD AND DEVICE FOR REMOVING THE HAIRS FROM THE SKIN OF FELLS. MAX BLOCH, Frankfort-on-the-Main, Germany. Filed Apr. 11, 1930, Serial No. 443,539, and in Germany Apr. 16, 1929. 10 Claims. (Cl. 19—2.)



1. Method for severing the hairs from the skin of fells by introducing the fell between the knives of a hair-cutting machine in such a manner that the knives of the cylinder cut off the hairs from the hair-side of the skin and that the hair severed from the skin is blown away by a current of air in a direction opposite to the direction of rotation of the cylinder-knives in order to remove them out of the reach of the knives.

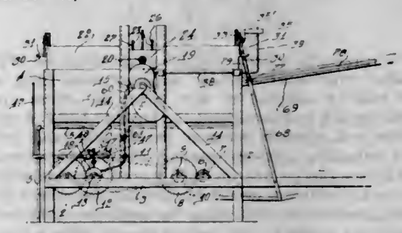
1,783,694. PROCESS OF PRODUCING ORGANIC IRON COMPOUNDS AND THE RESULTING PRODUCT. HENRY BLUMENBERG, Jr., Moapa, Nev., and JOHN H. BLUMENBERG, Huntington Park, Calif. Filed Aug. 31, 1926. Serial No. 132,893. 4 Claims. (Cl. 71—9.)

1. A method of making an organic iron compound suitable as a non-toxic plant stimulant comprising treating comminuted cellulose material with an aqueous solution of iron sulphate, and heating the impregnated cellulose material until the same assumes a dark brown or black color.

1,783,695. SULPHUR COMPOSITION AND METHOD OF MAKING THE SAME. HENRY BLUMENBERG, Jr., Moapa, Nev. Filed Feb. 14, 1927. Serial No. 168,284. 5 Claims. (Cl. 167—14.)

3. A method of producing sulphur in a finely divided state comprising 90 percent of sulphur with 10 per cent boric acid and heating the same to a temperature of 130 to 300° C. whereby a powdery mixture of sulphur and boric acid is formed.

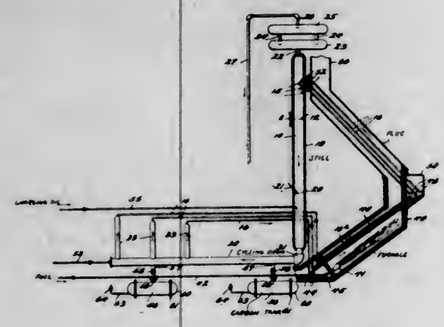
1,783,696. AUTOMATIC DEEP-FRYING MACHINE. ADOLPH BOTHE and ERNEST BOTHE, Lansing, Mich. Filed May 9, 1930. Serial No. 451,180. 10 Claims. (Cl. 53—7.)



1. A deep frying machine comprising the combination with a frame having a grease receiving receptacle formed

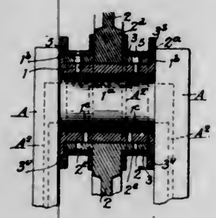
in the upper portion thereof and heating means adapted to maintain said grease at a baking temperature, of a tray supporting basket carried by a pair of cams adapted to lower said basket into and raise it out of said grease, means for intermittently rotating said cams, and a mechanism mounted in said basket for moving dough-nuts placed on said tray to a position whereby the downward movement into said grease causes them to be reversed.

1,783,697. METHOD AND APPARATUS FOR CRACKING OIL. WILLIAM BRINK and GEORGE L. HESS, El Dorado, Ark., assignors to General Oil Products Company, a Corporation of Delaware. Filed Nov. 9, 1927. Serial No. 232,112. 7 Claims. (Cl. 196—59.)



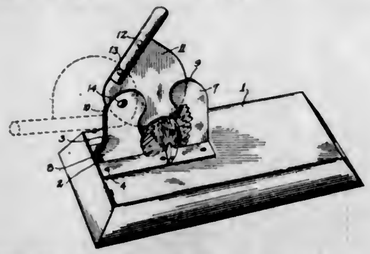
1. The process of cracking oil which consists in delivering small quantities of a heated topped oil to a large body of oil, flowing a portion of the body of oil continuously thru a horizontal lower drum and past carbon settling chambers, then up thru towers of smaller diameter, heating this latter portion of the oil to a cracking temperature, discharging the partially cracked oil at an angle to the larger body of oil so as to create a froth at the oil level and condensing the vapors arising from the main body of oil.

1,783,698. CRANK-PIN BEARING FOR CONNECTING-ROD ASSEMBLIES. HENRY LOWE BROWNBACK, Norristown, Pa. Filed Feb. 28, 1929. Serial No. 343,481. 5 Claims. (Cl. 74—17.)



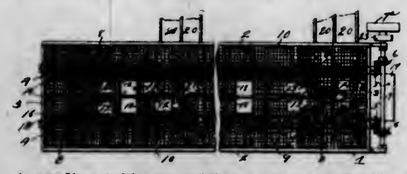
1. A crank pin bearing for the connecting rod slippers of radial type multi-cylinder engines, comprising a divided bushing adapted to float upon the crank pin; a pair of divided collars around the bushing adapted to confine the rod slippers between the bushing and collars, means extending entirely around the circumference for maintaining the collars in fixed spaced relation with respect to the bushing, means for locking the collars to the bushing; means for lubricating the members of the bearing through the bushing; and means on the collars for contracting the collars around the bushing and the bushing around the crank pin.

1,783,699. POULTRY KILLER. GEORGE C. BUTCHER, Parkersburg, W. Va. Filed Apr. 22, 1929. Serial No. 357,265. 1 Claim. (Cl. 17—12.)



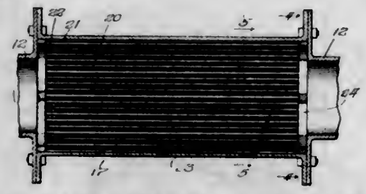
A device for decapitating poultry comprising a main body portion, a block including a pair of plates spaced apart and extending upwardly from the main body portion, said plates being formed with aligned recesses having restricted openings for receiving the neck of the poultry, a knife pivotally mounted between said plates and coacting with one plate to perform a shearing cut, the latter being mounted relative to said main body portion so as to converge slightly toward one another in the direction of said main body portion to wedgingly receive said knife as it descends and place it against the plate with which it coacts.

1,783,700. FRUIT-GRADING TABLE. JAMES AUGUSTUS BYINGTON, Orlando, Fla. Filed July 12, 1929. Serial No. 377,870. 9 Claims. (Cl. 209—123.)



1. A grading table comprising a frame, a flexible apron within said frame and spiral rollers cooperating with the under side of said apron, whereby transverse waves are imparted in said apron and advanced therein.

1,783,701. STORAGE OF OILS. THOMAS SKIDMORE COOKE and JOHN EVANS ROUSE, Casper, Wyo., assignors to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed Mar. 18, 1926. Serial No. 95,596. 3 Claims. (Cl. 220—88.)

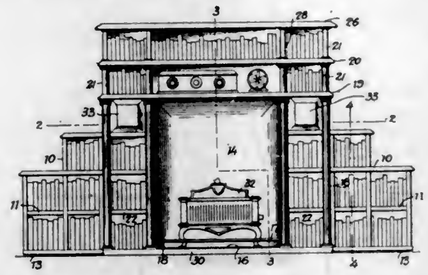


1. In combination with spaced sections of a vapor line, a chamber member therebetween constituting an enlargement of the vapor line, a mass of flame-arresting material in said chamber of greater cross sectional area than the bore of said sections, and means spacing the mass from said sections.

1,783,702. ROOF PAINT. MICHAEL M. CONNOLLY, Sherman, Calif. Filed Dec. 11, 1928. Serial No. 325,394. 1 Claim. (Cl. 134—14.)

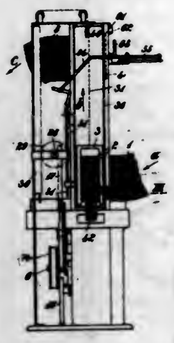
A roof paint consisting of the following ingredients in the proportions stated, by volume, coal tar twenty (20) parts, gasoline five (5) parts, and alcohol one (1) part.

1,783,703. BOOKCASE. SARAH E. CROWELL and GEORGE H. BLAKE, New York, N. Y. Filed May 29, 1929. Serial No. 366,987. 3 Claims. (Cl. 211—134.)



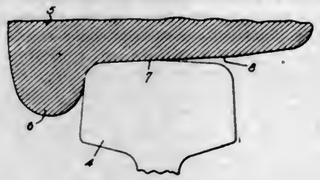
1. In portable bookcases, the combination of a base adapted to support a stove, bookshelves at the ends of the base, a mantel above the base, shelves above the mantel, and wing shelving hinged to the shelves at the ends of the base and supported at their outer ends by rollers.

1,783,704. MATRIX-SETTING AND TYPE-LINE-CASTING MACHINE. JULIUS DORNETH, Berlin-Konradshohe, Germany, assignor to the Firm Typograph-Gesellschaft m. b. H., Berlin, Germany. Filed Nov. 21, 1929, Serial No. 408,892, and in Germany Apr. 29, 1929. 12 Claims. (Cl. 199—4.)



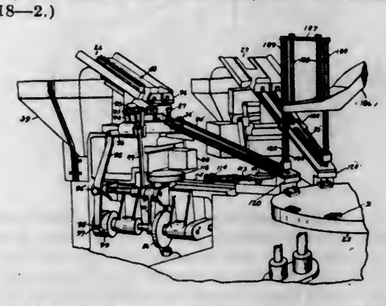
1. In a matrix setting and line casting machine, matrices guided on wires in a cycle, a carriage for raising the line set after the casting to distributer wires, pushing means for pushing the line set on to the distributer wires and members for lifing said carriage and operating said pushing means and adapted to be automatically interconnected so as to operate as a single body and to be again separated so as to act independently of each other at predestined stages of operation.

1,783,705. RAILWAY-CAR WHEEL. GEORGE H. EMERSON and JOHN J. TATUM, Baltimore, Md. Filed Mar. 23, 1929. Serial No. 349,420. 8 Claims. (Cl. 295—34.)



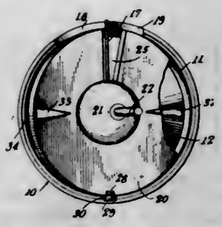
1. As a new article of manufacture, a flanged car wheel having a tread of the same contour at the throat of the flange as the inner rounded corner of the rail head and tapered from said throat at an angle corresponding to the taper of the head of such rail to a point coinciding approximately with the center of the rail head.

1,783,706. BASE-PIN-STAKING MACHINE. JOHN E. FERGUSON, Bloomfield, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed May 10, 1929. Serial No. 362,110. 21 Claims. (Cl. 218—2.)



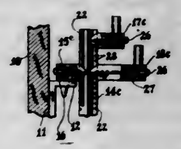
1. A machine of the class described comprising means for holding a plurality of contact pins in given spaced relation, means for feeding bases having apertures in a wall thereof, means for positioning said bases with said contact pins in said apertures, and means for securing said pins in said wall.

1,783,707. WATER METER. ERNEST E. GAMON, Prince Bay, N. Y. Filed Nov. 17, 1927. Serial No. 233,858. 3 Claims. (Cl. 73—98.)



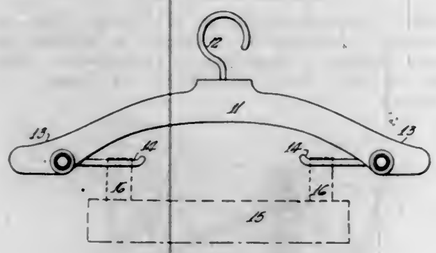
1. In a water meter having a chamber provided with oppositely disposed smooth conical surfaces having a pair of oppositely disposed radial recesses, a plane circular disc within the chamber, a stem extending at right angles from the disc, and oppositely disposed radial ribs on said disc, said ribs and recesses cooperating to affect the movements of the stem in predetermined positions.

1,783,708. HINGED RACK. GASPAR GARCIA, Habana, Cuba. Filed Apr. 4, 1928. Serial No. 267,243. 1 Claim. (Cl. 248—19.)



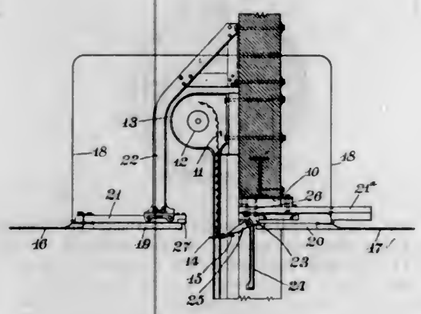
A hinged rack, comprising in combination, a plate adapted to be fastened to a wall, a vertical bar, a rear extension member mounted on said bar, spring pressed means for adjusting the position of said member on said bar, said rear extension member being hingedly connected to said wall plate, whereby the vertical bar may be moved horizontally, a front extension member mounted on said vertical bar, and spring pressed means for adjusting the position of said front extension member on said bar.

1,783,709. GARMENT HANGER. SIFTON A. GOLDBERG, Brooklyn, N. Y. Filed Mar. 23, 1929. Serial No. 349,442. 3 Claims. (Cl. 223—61.)



1. In a garment support as described, the combination, an arch-shaped body portion with a central hook for supporting a garment, a slot in each end of said body, a member pivotally secured in each slot and projecting inwardly below said body to support a garment having straps, said members turning on their pivots within said slot and having arms engaging said body portion to hold them rigid in a horizontal position.

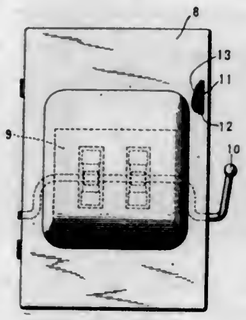
1,783,710. TROLLEY BRIDGE. RALPH H. GREEGOR, Columbus, Ohio, assignor to The Kinnear Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Dec. 30, 1927. Serial No. 243,740. 3 Claims. (Cl. 191—36.)



1. In combination with a structure having an opening, a door for said opening adapted to be raised and lowered, an electric power line having terminals at each side of the plane of movement of said door, a pivoted nonconducting trolley bridging member between said terminals, means on said door for causing said bridging member to assume trolley-guiding position when the door is raised to normally open position and for removing said bridging member from that position when the door is lowered from normal raised position and a weight operating on the bridging member for holding it in bridging position independently of the door.

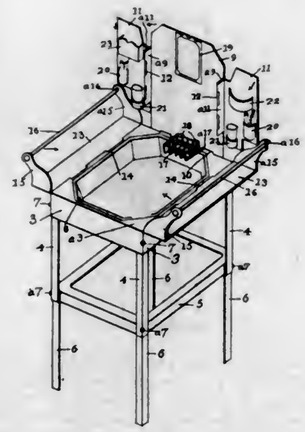
1,783,711. SWITCH-BOX LATCH AND SEAL. CHARLES E. HANNY, Unionville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a Corporation of Connecticut. Filed May 14, 1929. Serial No. 362,923. 9 Claims. (Cl. 292—89.)

1. A switch box having a cover hinged to one edge, a latch strip secured to one side wall of the box, the cover having a slot to receive said latch strip, a latch member pivoted to the outer end of said strip and adapted to be rotarily moved so as to engage one edge of said slot to prevent the



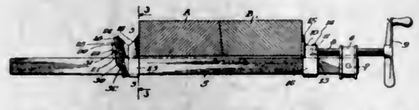
opening of the cover, and means for sealing said latch member in said engaging position to prevent release of said cover.

1,783,712. PORTABLE LAVATORY. JESUS G. HERNANDEZ, Seattle, Wash. Filed July 8, 1929. Serial No. 376,596. 1 Claim. (Cl. 45—38.)



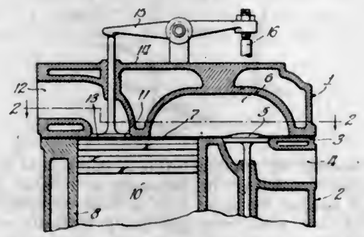
In a portable lavatory, the combination of a wash-stand top frame, a wash-stand top fastened to said top frame having an opening therethrough, a leg frame, four separably spliced legs removably fastenable to said top frame, and to said leg frame, a wash bowl mounted in said opening in said stand top, a back board hinged at its bottom edge to the rear edge of said stand top oscillatable only between a position at right angles with the plane of said stand top to a position overlying the same, back-board leaves joined to each side edge of said back board by forwardly offset hinges for oscillation only from a position in the plane of said backboard to a position in front of, parallel with and offset from said back board, toilet-accessories holders fastened to said back board and to said back board leaves, releasable means to retain said backboard in a postion at right angles to said stand top, leaves connected with hinges to each side edge of said stand top for oscillation only from a position in the plane of said stand top to a position overlying the same, arms having aligned holes therethrough fastened to each end of each of said stand-top leaves projected at right angles therefrom disposed to lie alongside of the front and rear of said stand top frame when said stand top leaves overlie said stand top with their ends projected below the lower edge of said stand-top frame, and rods extended through said aligned holes in said arms engageable therewith disposed adjacent the lower edges of said stand-top frame when the said stand-top leaves overlie said stand top.

1,783,713. ADJUSTABLE CLAMP. HARRY V. HOLMAN, Chicago, Ill., assignor to Adjustable Clamp Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 22, 1927. Serial No. 214,508. 2 Claims. (Cl. 144—303.)



1. A clamp comprising a rod, a jaw slidable along said rod, and means for preventing movement of said jaw along said rod comprising a plurality of clutch loops having openings therein through which said rod extends, said clutch loops having means thereon engaging said jaw so that when said jaw moves in one direction the clutch loops are tilted to bring the edges of said openings into gripping engagement with said rod and thereby prevent any further substantial movement of said jaw along said rod, each of said clutch loops being relatively thin as compared to the size of its opening, the combined thickness of said clutch loops being sufficiently great to withstand the normal clamping pressure without material permanent distortion, but each individual clutch loop being so weak as to be materially and permanently distorted by normal clamping pressure when used by itself, the distortion of the clutch loops tending to cause each clutch loop to more firmly grip said rod.

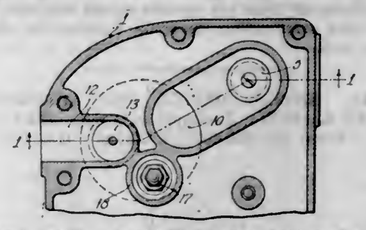
1,783,714. INTERNAL-COMBUSTION ENGINE. HARRY L. HORNING, Waukesha, Wis., assignor to Waukesha Motor Company, Waukesha, Wis., a Corporation of Wisconsin. Filed Aug. 25, 1928. Serial No. 301,989. 7 Claims. (Cl. 123—191.)



1. In an internal combustion engine, a cylinder, a piston reciprocating in the cylinder, said engine having an intake passage lying alongside the cylinder, a head having a pocket overlying said intake and part of said cylinder and having a portion overlying and close to the remainder of the cylinder area, said overlying portion of the head forming with the piston, when in its raised position, a shielded space, the head having an exhaust passage opening through the overlying portion thereof, valves for said passages, and means for igniting the charge in said shielded space.

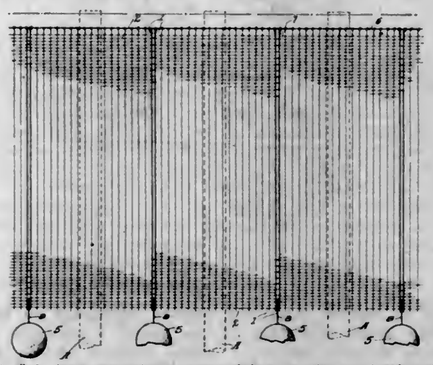
1,783,715. INTERNAL-COMBUSTION ENGINE. HARRY L. HORNING, Waukesha, Wis., assignor to Waukesha Motor Company, Waukesha, Wis., a Corporation of Wisconsin. Filed Aug. 25, 1928. Serial No. 301,990. 8 Claims. (Cl. 123—191.)

1. In an internal combustion engine, a cylinder, a piston reciprocating in the cylinder said engine having an exhaust passage lying alongside the cylinder, a head having a pocket overlying said exhaust passage and part of said cylinder, the head also having a portion overlying and close to the remainder of the cylinder area, said overlying portion of the head forming with the piston, when in



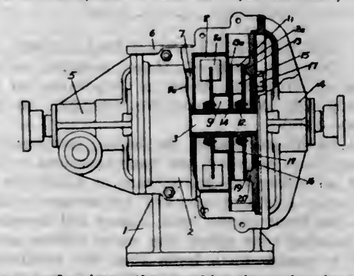
its raised position, a shielded space, said engine having an intake passage opening through the overlying portion thereof, valves for said passages, and means for initially igniting the charge in said shielded space.

1,783,716. FISH-TRAP STRUCTURE. WILLIAM G. HUMM, Peoria, Ill., assignor to Keystone Steel & Wire Company, Peoria, Ill., a Corporation of Illinois. Filed July 5, 1928. Serial No. 290,546. 1 Claim. (Cl. 43—7.)



A fish trap structure, comprising sections of wire fabric, each section made from a plurality of longitudinal and cross wires joined at their intersections to produce square meshes, the marginal longitudinal wires being sufficiently heavy to provide, when the sections are joined, reinforcing and strengthening ribs for the said structure, means adapted for connection with the lower ends of pairs of marginal wires of adjoining section for weighting down the said sections and to hold the same taut, rings connecting marginal wires of adjoining sections, and a stringer support for the structure to which are connected the longitudinal wires of each section.

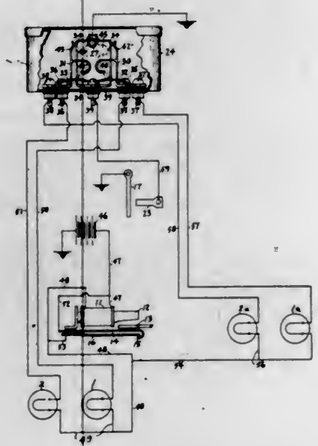
1,783,717. PULVERIZER. GUSTAV H. KAEMMERLING, Erie, Pa., assignor to Erie City Iron Works, Erie, Pa., a Corporation of Pennsylvania. Filed July 16, 1929. Serial No. 378,752. 2 Claims. (Cl. 83—11.)



1. In a pulverizer, the combination of a beater chamber; a fan chamber to which the beater chamber leads, said

fan chamber having an end wall with supplemental air openings therein; a fan in the chamber having a disc next to and spaced from the end wall, said disc having an opening receiving air from the opening in the end wall; and a closure ring surrounding the space between the disc and the end wall.

1,783,718. SIGNAL DEVICE FOR AUTOMOBILES. HOSAKU KAGEYAMA, Los Angeles, Calif. Filed Apr. 3, 1923. Serial No. 629,652. 3 Claims. (Cl. 177—337.)

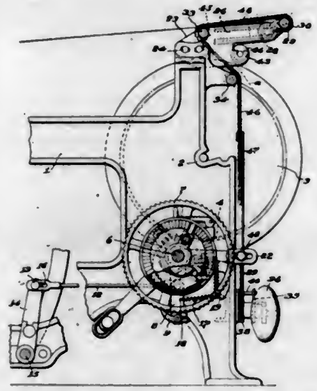


2. An electric signal for vehicles comprising an indicating means consisting of two lamps, a manually operated selective switch, a brake operated switch, and conducting means interconnecting each switch and the lamps and also interconnecting the two switches whereby with the manual switch in a neutral position the operation of the brake illuminates both lamps, and whereby operation of the manual switch to a selected position positively illuminates a selected lamp only and renders the brake operated switch ineffective.

3. A signaling device comprising an electric signal lamp to give a visual signal, an electrically operated bell in co-operation with the visual signal to announce the operation of the latter to the operator, a hammer for striking said bell, an armature for operating said hammer and magnetic coils for attracting said armature, said magnetic coils being connected in series circuit with said signal lamp, said armature being adapted to short circuit, said coils, when attracted by the same, thereby permitting said signal lamp to receive electrical current more directly from the source of current.

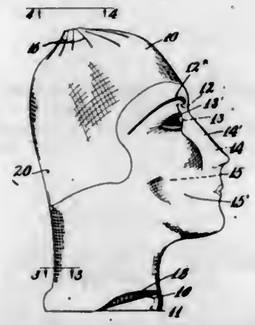
1,783,719. LET-OFF MECHANISM FOR LOOMS. RICHARD A. KEARSLEY, Milford, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Aug. 27, 1929. Serial No. 388,701. 15 Claims. (Cl. 139—110.)

1. In a let-off mechanism for looms, the combination of the warp beam on which the warp is wound, a positive let-off for actuating the warp beam to let-off the warp, a warp tension equalizer mounted for movement towards and from the front of the loom, means for directing the warp in parallel runs about the warp tension equalizer from full to empty warp beam that the equalizer may exert unvarying tension on the warp loop throughout the weaving operation, a weight normally active upon the warp tension equalizer in a direction to maintain uniform tension on the warp throughout the weaving operation, and means governed by movement of the equalizer toward



and from the front of the loom to vary the amount of let-off from the warp beam without changing the uniform warp tension.

1,783,720. METHOD OF MAKING TOY FIGURES. VICTOR KENEY, New York, N. Y. Filed Jan. 29, 1930. Serial No. 424,241. 3 Claims. (Cl. 16—40.)



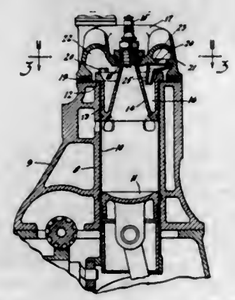
1. A method for manufacturing a doll's head or similar article, consisting in engaging a tubular knitted fabric of smaller diameter than a form and capable of stretching over said form, previously partially covering said form with liquid glue, sewing the opened top of the tubular fabric closed so that it tightly engages the form and applying coloring upon the fabric to form features.

1,783,721. ARTIFICIAL HAIR FOR DOLLS' HEADS. VICTOR KENEY, New York, N. Y. Filed Feb. 17, 1930. Serial No. 429,063. 2 Claims. (Cl. 46—40.)



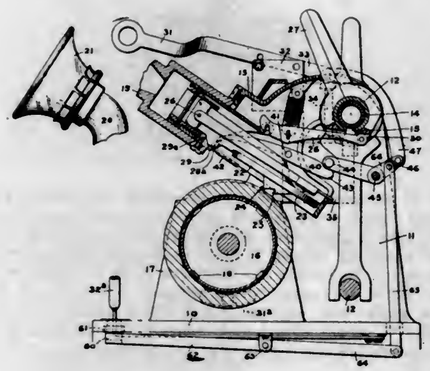
1. In combination with a scalp member for a doll's head, a plurality of strands of hair on said scalp member, each strand being composed of a small central portion beneath the scalp member and two end portions positioned above said scalp member, said strands arranged in pairs so that the small central portion of each pair cross, and a separate hair strand tied around the four end portions and near the scalp portion of the strands so that each of the strand ends is prevented from pivoting on its central portion by the other strand ends.

1,783,722. SLEEVE-VALVE ENGINE. CLARENCE EVELYN KING, Harpenden, England, assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Aug. 19, 1927. Serial No. 214,081. 14 Claims. (Cl. 123—173.)



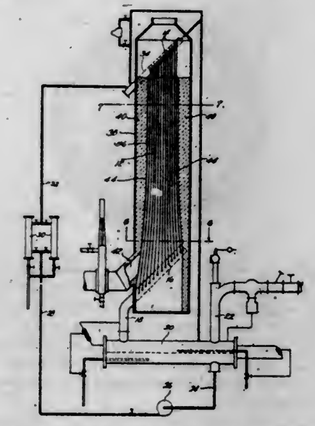
1. In an engine having a cylinder and a cylinder head having a hollow portion projecting into the cylinder, a cover plate for the cylinder head having therein a conduit having means to direct cooling fluid directly to the hollow portion.

1,783,723. PHONOGRAPH. HENRY J. KING, New Haven, Conn., assignor to Dictaphone Corporation, Bridgeport, Conn., a Corporation of New York. Filed Dec. 14, 1923. Serial No. 680,646. 39 Claims. (Cl. 274—17.)



1. In a dictating machine, the combination of a record-support, means for rotating the record-support, manually operable means for making the record-support rotating means operative or inoperative, a stylus, and means for moving the stylus out of record-engaging position and operated concomitantly with the operation of said manually operable means when making the record-support rotating means inoperative.

1,783,724. ART OF EFFECTING HEAT EXCHANGE. WALTER DOUGLAS LA MONT, Larchmont, N. Y., and ALFRED F. ERNST, Passaic, N. J., assignors to La Mont Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 7, 1926. Serial No. 140,099. 4 Claims. (Cl. 122—7.)



1. Apparatus for the exchange of heat between a gas and a fluid comprising a wall defining a gas passage which tapers from one end toward the other, a set of closely spaced tubes of small diameter extending longitudinally from one end to the other of the passage, which are uniformly distributed throughout the entire cross-section of the passage anywhere in its length, said tubes being more closely spaced at the smaller end of the passage than the other and the dimensions and spacing of the tubes being such that the tubes have a surface area of at least 12 square feet per cubic foot of total volume of the passage whereby under a high velocity of gas flow marked turbulence in the gas is maintained, means for introducing heated gas into the wider end of the passage and means for introducing a fluid into the tubes at the opposite end of the passage, and thereby causing the gas and fluid to flow in counter-flow relation.

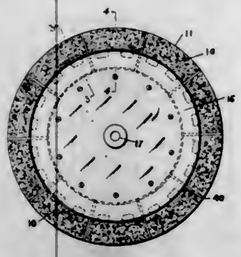
1,783,725. RECOVERY OF SULPHUR FROM ALKALI-METAL POLYSULPHIDES. HELLMUTH LANGHEINRICH, Neuroessen, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Aug. 5, 1929, Serial No. 383,790, and in Germany Aug. 23, 1928. 3 Claims. (Cl. 23—229.)

1. The process for the recovery of sulphur from solutions of alkali metal polysulphides which comprises heating such solution to between 150° and 374° C. under its own vapor pressure.

1,783,726. METALLIC APPARATUS FOR CARRYING OUT CHEMICAL AND OTHER PROCESSES. FRANZ LAPPE and EDWIN KOCH, Ludwigshafen-on-the-Rhine, MATHIAS PIER, Heidelberg, and HANS SAUER, Neurossen, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Mar. 23, 1927, Serial No. 177,830, and in Germany Mar. 25, 1926. 3 Claims. (Cl. 23—252.)

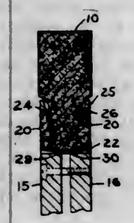
1. Metallic apparatus for carrying out processes in the presence of destroying elements which comprise iron which has been treated at high temperatures and under conditions precluding oxidation, with a gas capable of forming gaseous compounds with the impurities originally contained in the said metal, the said iron on being treated with corroding agents and then subjected to microscopic examination no longer showing the effects of corrosion in the boundaries of the microscopic grains.

1,783,727. SEGMENTAL GRINDING WHEEL. THURE LARSSON, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed May 27, 1927. Serial No. 194,792. 20 Claims. (Cl. 51—207.)



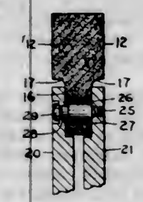
1. A grinding wheel comprising segments of bonded abrasive grains arranged in the form of an annulus which has a peripheral grinding face, side faces, and a reduced inner portion, and means including plates clamping against the reduced inner portion and located substantially within parallel planes passing through said side faces which hold the abrasive segments secured in position for grinding.

1,783,728. GRINDING WHEEL. THURE LARSSON, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed June 30, 1927. Serial No. 202,673. 17 Claims. (Cl. 51—207.)



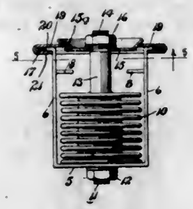
1. A grinding wheel comprising abrasive segments arranged in the form of an annulus having a peripheral grinding face, a peripheral supporting face and side faces, peripherally spaced abrasive lugs projecting from the side faces which form beveled clamping shoulders, and clamping members arranged on each side of the annulus in engagement with the peripheral supporting face and provided with portions engaging said shoulders which are adapted to adjustably secure the wheel segments in position.

1,783,729. ABRASIVE-WHEEL MOUNT. THURE LARSSON, Worcester, Mass., assignor to Norton Company, Worcester Mass., a Corporation of Massachusetts. Filed June 30, 1927. Serial No. 202,674. 11 Claims. (Cl. 51—207.)



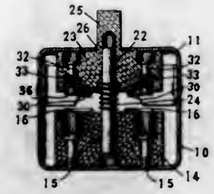
1. A grinding wheel comprising an abrasive body having a series of openings in its side faces and a bushing in each opening having a surface accurately preformed to fit correctly on a supporting member which is removably insertable in said opening, whereby the abrasive body may be mounted on a support located at the side of the wheel.

1,783,730. THERMOSTATIC VALVE. EDGAR J. LEACH, Janesville, Wis., assignor to Time-O-Stat Controls Company, Elkhart, Ind., a Corporation of Maryland. Filed Mar. 28, 1927. Serial No. 178,824. 9 Claims. (Cl. 236—34.)



1. A device of the class described comprising a sheet metal plate having an opening therethrough, a supporting stirrup of U-shape attached to said plate at one side, the ends of the legs of said stirrup being secured to said plate one at each side of the opening, a thermostatically expansible and contractible corrugated sheet metal bellows permanently secured to the base of said stirrup and extending toward the plate, a stem extending from the end of the bellows through said opening in the plate, a valve secured to the end of the stem adapted to close the opening in the plate on contraction of the bellows, and stops carried by and extending inwardly from the legs of said stirrup between the bellows and said valve and terminating short of said stem.

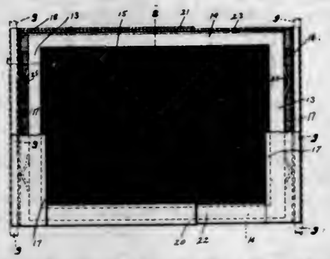
1,783,731. INCLOSED SWITCH. HENRY E. LEPPERT, New Britain, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a Corporation of Connecticut. Filed Jan. 15, 1930. Serial No. 420,922. 5 Claims. (Cl. 200—159.)



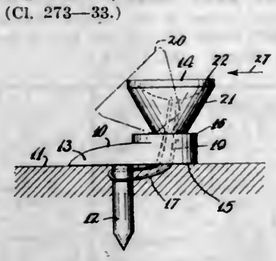
4. In an electric switch, an insulating base having two spaced switch contacts with circuit terminals and a cross plate spaced apart from the ends of said contacts, a movable insulating carrier having two parallel switch plates and means for guiding the carrier so as to cause the movable plates to engage the stationary contacts and the cross plate, said movable plates being mounted on the carrier to permit tilting and spring means coacting with the tilting plates.

1,783,732. WINDOW SCREEN. LOUIS LEVI, Winthrop, Mass. Filed July 31, 1929. Serial No. 382,526. 1 Claim. (Cl. 156—38.)

As an article of manufacture, a window screen engageable as a unit with the fixed vertical screen guides of a window frame, and comprising a single invariable rectangular inner frame, including horizontal bottom and top members, vertical end members, and a filling of screen fabric, and a horizontally variable and vertically invariable rectangular housing frame, composed of two angular channelled sheet metal sections, each open at one end and including channelled horizontal lower and upper members telescopically interengaged to permit horizontal variation of the housing frame, and channelled vertical members connecting said horizontal members in pairs, and provided with screen-guide engaging grooves, the channelled members of the housing frame receiving the members of the inner frame, and springs interposed between the vertical members of the two frames, said springs being rigidly backed by the vertical members of the inner frame, and bearing on the vertical members of the housing frame, to horizontally vary the latter and thereby permit horizontal contraction of the housing frame when the screen is being engaged with the screen guides, and automatically compensate for variations in the distance between the screen guides caused by swelling and shrinking of the window casing.

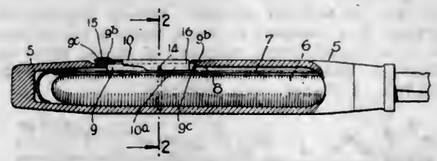


1,783,733. GOLF TEE. GIUSEPPE MANASSERO, New York, N. Y. Filed Feb. 25, 1930. Serial No. 431,148. 5 Claims. (Cl. 273—33.)



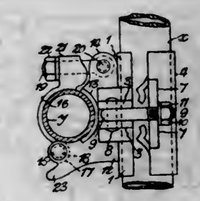
1. A golf tee consisting of a combination of a body formed of a single piece, said body having a peg for the insertion into the ground, a spike, a platform supporting a cup, said cup connected to the body, the connection consisting of an elastic strip guided thru apertures in the said platform, and around the peg so as to cause the said cup to return automatically in teeing position in the event of being struck by a golf club.

1,783,734. FOUNTAIN-PEN ATTACHMENT. CLINTON E. MARSHALL, Brooklyn, N. Y. Filed Nov. 24, 1928. Serial No. 321,537. 8 Claims. (Cl. 120—46.)



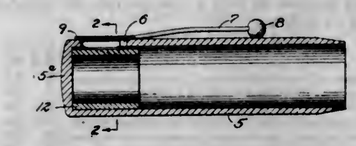
1. The combination with a fountain pen barrel having an elongated aperture therein, of a liner for said aperture, and means involving a member movably coupled with said liner for supporting the same within the aperture of said pen barrel, said means comprising a spring ring.

1,783,735. COUPLING OR CLAMP FOR SCAFFOLDING OR OTHER PURPOSES. ARNOLD CLARENCE MARSHALL, London, England, assignor to The Steel Scaffolding Company Limited, London, England, a Corporation of Great Britain. Filed Mar. 14, 1929, Serial No. 346,930, and in Great Britain July 3, 1928. 7 Claims. (Cl. 304—40.)



1. A clamp for the purpose specified comprising a body having a plane portion of rectangular outline, a pair of projections upon opposite edges of said body disposed at a right angle thereto and projecting in one direction, a pair of projections upon the other opposite edges of said body also projecting at a right angle thereto but in an opposite direction to said first projections, a projection disposed at a right angle to the plane of one of each pair of said projections at the outer end thereof, projections upon and disposed at a right angle to said last projections and having surfaces adapted to bite into the body gripped, a body pivotally mounted upon one of said first projections to engage the bodies to be gripped, a screw for forcing each of said bodies forming parts of said clamp onto the body gripped, and a threaded part on one of said bodies forming parts of said clamp for said screw to be engaged therein.

1,783,736. PEN AND PENCIL CLIP. CLINTON E. MARSHALL, New York, N. Y. Filed Jan. 15, 1930. Serial No. 420,875. 5 Claims. (Cl. 24—11.)

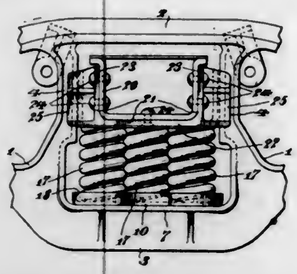


5. The combination with a fountain pen cap of an elongated aperture arranged in the side wall of the cap adjacent the closed end thereof, a clip, one end of which is of substantially the same transverse dimensions as the transverse dimensions of said aperture, said clip including laterally extending side flanges adapted to be arranged to engage the inner surface of the bore of said cap, a plug member inserted into said bore inwardly of said flanges and adapted to firmly clamp said flanges between the same and the wall of said cap to retain the clip against displacement with respect to the cap, said end of the cap including a projecting tongue adapted to overlie the outer wall of the cap at one end of the aperture therein, and the other end of the clip having an enlarged member joined to the first named end of the clip by a spring arm.

1,783,737. CAR TRUCK. MARK H. MARTIN, Reading, Pa., assignor to Birdsboro Steel Foundry & Machine Company, Birdsboro, Pa., a Corporation of Pennsylvania. Filed Dec. 12, 1928. Serial No. 325,494. 7 Claims. (Cl. 105—197.)

1. In a railway car truck the combination of a side frame having a bolster window formed therein, a bolster

extending through the said window, a casting secured to the said bolster which casting comprises a base the said base constituting a spring cap, the ends of the said casting projecting laterally and upwardly with respect to the sides



of the said bolster, the top side of the said base having ribs formed thereon extending transversely of the said bolster, and guide lugs formed on each end of the said casting.

1,783,738. OPACIFIER FOR ENAMELS. THOMAS H. MCKEOWN, Metuchen, N. J., assignor, by mesne assignments, to The Roessler & Hasslacher Chemical Company, a Corporation of Delaware. Filed Jan. 12, 1928. Serial No. 246,397. 7 Claims. (Cl. 106—36.2.)

6. An enamel composition for the production of white enamel containing sodium antimonate and tin oxide in ratios of three to one.

1,783,739. OPACIFIER FOR ENAMELS. THOMAS H. MCKEOWN, Metuchen, N. J., assignor, by mesne assignments, to The Roessler & Hasslacher Chemical Company, a Corporation of Delaware. Filed Jan. 12, 1928. Serial No. 246,398. 4 Claims. (Cl. 106—36.2.)

4. A fired enamel having a composition by weight approximately as follows:

Na_2O	9 to 12.5
K_2O	2.5 to 3
CaO	4 to 8
Al_2O_3	7 to 9
B_2O_3	4 to 5
Sb_2O_3	2 to 6
SiO_2	24 to 28
SnO_2	1 to 3
F_2	2 to 4
PbO	10 to 15
ZnO	3 to 7

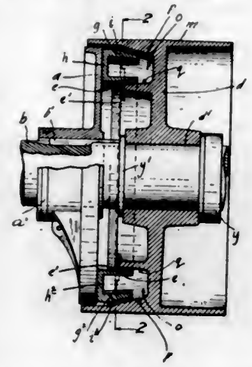
wherein sodium antimonate and tin oxide are utilized in the requisite amount in the preparation of the composition for firing and in the ratio to each other of 3 to 1.

1,783,740. OPACIFIER FOR ENAMELS. THOMAS H. MCKEOWN, Metuchen, N. J., assignor, by mesne assignments, to The Roessler & Hasslacher Chemical Company, a Corporation of Delaware. Filed Jan. 12, 1928. Serial No. 246,399. 4 Claims. (Cl. 106—36.2.)

1. An enamel composition comprising the following materials within the range of proportions specified:

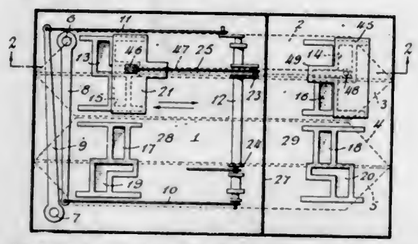
	Parts by weight
Feldspar	10 to 14
Flint	7 to 10
Borax	21 to 24
Boric acid	3 to 5
Soda nitre	1 to 3
Cryolite	4 to 8
Fluorspar	3 to 6
Barium carbonate	11 to 13
Red lead	10 to 17
Whiting	3 to 7
Zinc oxide	4 to 7
Antimony-tin opacifier (3:1)	1 to 12

1,783,741. CLUTCH MECHANISM. ARTHUR M. MEARS, Portland, Oreg. Filed Feb. 16, 1927. Serial No. 168,661. 7 Claims. (Cl. 192—35.)



1. In combination, a shaft, two motion transmitting members mounted thereon, one side of one of said members provided with a recess concentric with the axis of the shaft, a friction-band secured at one end to the other member and arranged along one wall of said recess, normally disengaged therefrom, the free end of said friction-band provided with a friction shoe located in said recess for engagement with another wall of said recess, whereby when said friction-shoe is engaged, the friction-band is placed in engagement with the recess wall along which it lies.

1,783,742. VALVE MECHANISM FOR GAS METERS. GEORG MEYER, Mainz, Germany, assignor to Gasmesserfabrik Mainz, Elster & Co., Mainz, Germany. Filed Nov. 26, 1927, Serial No. 235,770, and in Germany Dec. 1, 1926. 5 Claims. (Cl. 73—1.)



1. In a device of the class described, a casing having a partition dividing it into an upper chamber and a lower chamber, and another partition dividing said upper chamber into an inlet compartment and an outlet compartment, each provided with a port, valves controlling said ports, mechanism, located in one of said compartments, for the direct actuation of the valve thereof, and an operative connection extending from said valve to the other valve, through said lower chamber and clear of the partition which separates said compartments.

1,783,743. BRACELET CLASP. MORRIS MILLER, East Orange, N. J., assignor to Simon Miller & Co., Newark, N. J., a Copartnership composed of Morris Miller and Emanuel Miller. Filed May 3, 1928. Serial No. 274,768. 3 Claims. (Cl. 24—71.)

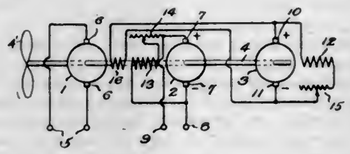


3. In a clasp for a bracelet, a box-like link having a protruding bearing connection at one end with the bracelet, a pair of parallel oppositely disposed strip members embracing at one end the opposite end of the box-like link and pinned thereto for pivotal movement, a housing including parallel oppositely disposed side members having seats in the end edges thereof, an individual pivot connecting the opposite end of each of the strip members with the corresponding side member adjacent the end edge seat thereof, thereby leaving between the strip members an unobstructed space, said strip members being foldable in the housing between the side members and said box-like link being foldable between the strip members to occupy said unobstructed space and permit said bearing connection to to be received in said end edge seats.

1,783,744. MANUFACTURE OF IRON CARBONYL. ALWIN MITTASCH, Ludwigshafen-on-the-Rhine, and CARL MÜLLER, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Mar. 25, 1926, Serial No. 97,466, and in Germany Mar. 30, 1925. 6 Claims. (Cl. 23—203.)

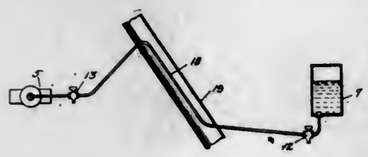
4. The process of manufacturing iron carbonyl which comprises passing over metallic iron having metallic surfaces free from iron oxid a gas containing carbon monoxid under a pressure not exceeding 50 atmospheres and at an elevated temperature and with so great a speed that the iron carbonyl formed is substantially carried away with the gas current.

1,783,745. CONSTANT-VOLTAGE GENERATOR. FRED B. MONAR, Washington, D. C. Filed May 11, 1927. Serial No. 190,562. 3 Claims. (Cl. 171—224.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)



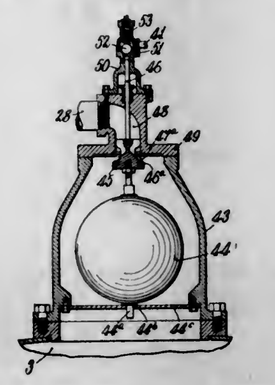
1. In a radio generator, the combination of a main generator, an exciter generator therefor, said main generator and exciter generator having common field poles that are saturated at normal operating speed, and a supplemental generator, having a field pole that is undersaturated at normal operating speed, the output of said supplemental generator connected to a field winding upon the field pole of the exciter generator, the said field winding being wound upon said field pole of the exciter generator in such a manner that the flux of said winding opposes the field pole flux of the main and exciter generators for maintaining the output voltage of the main generator constant irrespective of increase in speed above normal operating speed.

1,783,746. ATTACHMENT FOR INTERNAL-COMBUSTION ENGINES. LEE H. MORT, Pittsburgh, Pa. Filed July 18, 1927. Serial No. 206,508. 2 Claims. (Cl. 123—25.)



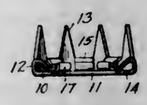
1. In an internal combustion engine, the combination of a carbureter, an exhaust passage, and means for supplying steam to the carbureter, such means comprising a water supply tank, piping arranged within the exhaust passage and in communication with the water supply tank, said piping being of such length and the piping and tank being mutually so arranged that the water rises a relatively short distance in the piping with a relatively great length of the latter above the water level therein and lying within the exhaust passage.

1,783,747. DISPLACEMENT PUMPING SYSTEM. JOHN OLIPHANT, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Apr. 18, 1927. Serial No. 184,785. 8 Claims. (Cl. 103—246.)



1. In a displacement pump, a displacement tank, pumping fluid supply means therefor including means forming a connection opening through the top of the tank, controlling means for said pumping fluid supply means including a main pressure fluid actuated valve, a pilot valve mounted on said tank in alinement with said connection for controlling flow of pressure fluid to actuate said main valve and a float in said tank for controlling said pilot valve, and means controlled by said float to prevent liquid entering said connection.

1,783,748. PRONGED FASTENER. DANIEL I. REITER, New York, N. Y. Filed Apr. 12, 1929. Serial No. 354,499. 13 Claims. (Cl. 24—216.)



1. A pronged socket comprising an outer wall, spaced prongs integral with an outstanding from the upper end of said wall, a bottom wall portion having an aperture therein for the reception of a stud, bent from the lower edge of said outer wall and substantially perpendicular thereto, and yieldable fingers integral with the upper end of the outer wall and bent inwardly therefrom and extending from said upper end to a point inwardly of the edge of the aperture for engaging said stud.

1,783,749. BAG HOLDER. LOUIS M. ROEHL, Ithaca, N. Y. Filed Feb. 21, 1929. Serial No. 341,747. 3 Claims. (Cl. 88—26.)

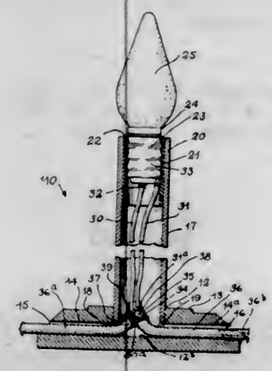
1. In a bag holder, a standard, a block having an opening therein received on the standard and vertically

slidable thereon, a spring support for the block comprising a spring attached at its lower end to the block, a bolt attached to the upper end of the spring and the upper end of the standard having vertically spaced openings therein for selective reception of the bolt to accommodate the mounting of bags of different lengths, bag supporting



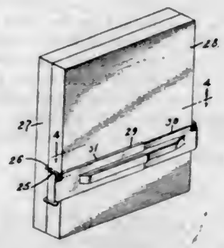
arms slidable through the block, a screw threaded into the block engaging the arms to hold them in adjusted position, the outer ends of the arms being angularly bent and spurs on the bent ends of the arms to engage and support a bag, and a baffle board loosely mounted on the block and movable therewith.

1,783,750. ORNAMENTAL ILLUMINATING DEVICE. ALBERT SADACCA, New York, N. Y., assignor to Noma Electric Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 26, 1928. Serial No. 308,497. 3 Claims. (Cl. 240—52.)



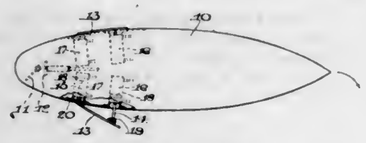
2. In a device of the character described, a base having an opening in the top surface thereof forming a chamber having a bottom wall, aligned passages within said base communicating with said chamber, a tubular member inserted within said opening, the lower end of said member abutting said bottom wall and provided with cut out portions registering with said passages, a lamp socket mounted in said tubular member at the upper end thereof, conductors extending thru said chamber and passages, and leads within said tubular member connecting said socket to said conductors.

1,783,751. MATCH-BOOK HOLDER. HUGO H. SCHUBNELL, New York, N. Y. Filed Feb. 26, 1930. Serial No. 431,615. 2 Claims. (Cl. 24—81.)



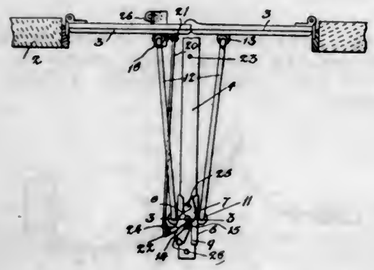
1. A match-book holder comprising a base, said base being made of two sections slidably mounted on one another whereby its length may be varied, means on said base for mounting a match-book thereon, and spring-pressed clamping means on said base for attaching the latter to a receptacle.

1,783,752. SHIP-STEERING DEVICE. CLARENCE F. SELZER, North Milwaukee, Wis. Filed July 30, 1928. Serial No. 296,261. 3 Claims. (Cl. 114—145.)



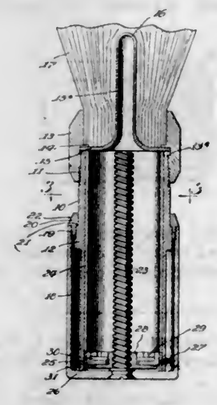
1. The combination with a vessel, of a wing adapted to lie closely adjacent the side of the vessel, and a pair of projectable members disposed one behind the other at the side of the vessel and each having pivotal connections with said wing, the forward of said projectable members on its outward movement from the side of the vessel swinging said wing outwardly about its rearward pivotal mounting to effect a turning movement of the vessel, and the outward movement of said rearward projectable member effecting a spaced disposition of said wing with respect to the side of the vessel to permit the passage of obstructing objects between the wing and the side of the vessel whereby to permit a close retraction of said wing adjacent the side of the vessel.

1,783,753. GATE OPERATING AND LOCKING MECHANISM. JAMES JOSEPH SHIELDS, Guelph, Ontario, Canada. Filed July 15, 1927. Serial No. 205,983. 3 Claims. (Cl. 292—263.)



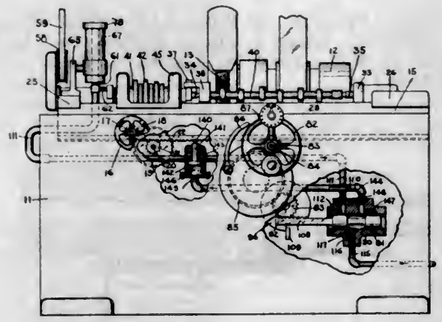
1. A latching means comprising a carriage adapted to be mounted to slide longitudinally on a horizontal bar; an ear at each side of said carriage; an integrally formed spring-controlled horizontally disposed latch member pivoted to said carriage to normally occupy a position longitudinally thereof and provided with oppositely faced hooks between which is located the pivotal point for said latch, and a stop carried by said latch for engagement with said carriage.

1,783,754. SOAP-DISPENSING SHAVING BRUSH. AUBRY F. STEPELTON, Chicago, Ill., assignor of one-half to Walter R. Kirk, Chicago, Ill. Filed June 12, 1929. Serial No. 370,198. 7 Claims. (Cl. 15—137.)



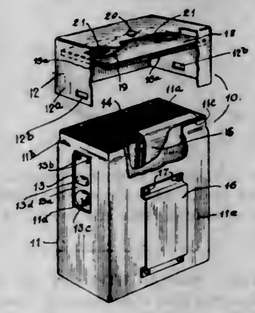
1. In a soap-dispensing brush, in combination, a hollow barrel of circular cross section, a unitary head comprising an annular member and bristles, removably threaded on one end of said barrel, a flexible gasket adapted to be firmly engaged between said barrel and annular member, a flexible nipple integral therewith adapted to discharge into said bristle, a soap cartridge shell in said barrel, a cup-shaped handle member extending substantially the full extent of said barrel and abutting the other end of said barrel and freely rotatable therearound, abutments on the side of said barrel between its ends preventing longitudinal movement of said cup member, a threaded stem rigidly carried by said cup member and extending into said barrel, and a perforated piston interiorly threaded and mounted on said threaded stem, said piston being adapted to engage the inner walls of said shell.

1,783,755. GRINDING MACHINE. CHARLES G. TREFETHEN and ALBERT G. BELDEN, Worcester, Mass., assignors to Norton Company, Worcester Mass., a Corporation of Massachusetts. Filed June 29, 1927. Serial No. 202,183. 22 Claims. (Cl. 51—101.)



1. A grinding machine comprising a rotatable grinding wheel, a support for holding a piece of work in grinding position which is movable towards and from the wheel, mechanism to feed the wheel into the work and means operated in timed relation with said mechanism to move the work to an inoperative position when the wheel is also moved away from the work.

1,783,756. WATER-TIGHT RECEPTACLE. ARTHUR VON FRANKENBERG, New York, N. Y. Filed Nov. 9, 1926. Serial No. 147,208. 6 Claims. (Cl. 206—41.)

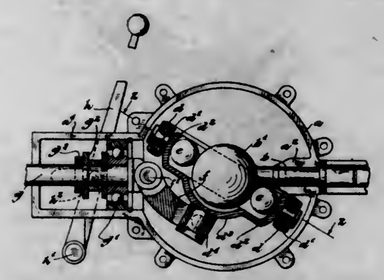


1. A device of the character described comprising a container portion having a top opening, the side walls of said portion at said opening being contracted, a cover fitted over said opening to extend beyond the contracted side wall portions, a closure plate adapted to engage the rim edge of said opening, spring means interposed between the cover and said plate for resiliently holding the latter against said edge, and releasable latching means for retaining the cover and plate in effective closed position, said means including a spring finger disposed between said cover and a side wall of said container and secured to said side wall.

1,783,757. DEHYDRATION OF MOIST FUELS. HANS ADOLF VON STADEN and ANTON HOEHN, Neuroesen, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Oct. 23, 1928, Serial No. 314,535, and in Germany Dec. 14, 1927. 4 Claims. (Cl. 34—34.)

1. The process of dehydrating moist solid fuels, which comprises heating a mixture of raw brown coal and tar to a temperature of about 150° C. under a pressure of about 5 atmospheres and separating the water in the liquid state.

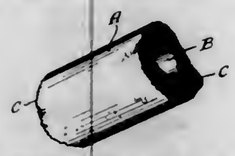
1,783,758. POWER-TRANSMISSION DEVICE. CARL W. WEISS, Brooklyn, N. Y. Filed Mar. 2, 1929. Serial No. 343,945. 3 Claims. (Cl. 74—14.)



1. The combination of a driving shaft, a convex spherical member connected to and supported by the driving

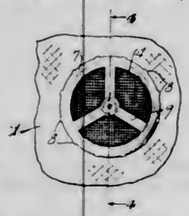
shaft, a driven shaft, a mutor capable of nutation and external to the spherical member, a gripping element supported by the mutor for coaction with the spherical member, and a connection between the mutor and the driven shaft.

1,783,759. FUEL BRIQUETTE. PARK E. WELTON and GEORGE H. WADSWORTH, Akron, Ohio, assignors to The P. E. Welton Engineering Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 25, 1922. Serial No. 603,169. 3 Claims. (Cl. 44—15.)



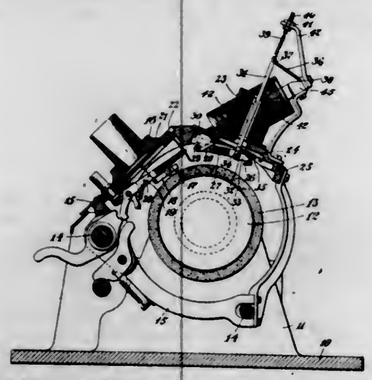
3. A hollow cylindrical briquette formed to have a percentage of void in its wall structure affording a longitudinal porosity extending from end to end of the briquette.

1,783,760. HAT. EDWARD WITTCOFF, St. Louis, Mo., assignor to Superior Hat Company, St. Louis, Mo., a Corporation of Missouri. Filed June 24, 1929. Serial No. 373,270. 2 Claims. (Cl. 2—176.)



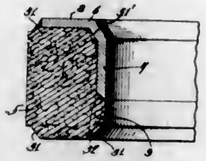
1. A hat ventilator including, in combination, a first ring, a section of mesh-material disposed over the area of and marginally folded about the ring, a second ring, and an annular series of prongs extending from the outer margin of the second ring adapted for projection through the crown of a hat and for clinching engagement about the first ring for securing said rings together and the ventilator to a hat.

1,783,761. PHONOGRAPHIC RECORDING. HOWARD SELLERS WORRELL, Ardmore, Pa., assignor to Dictaphone Corporation, Bridgeport, Conn., a Corporation of New York. Filed Dec. 3, 1925, Serial No. 72,904. Renewed Apr. 17, 1929. 10 Claims. (Cl. 179—100.4.)



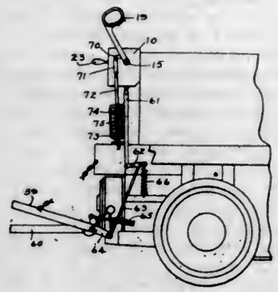
1. A phonographic recording device comprising recording means for engaging a record, and a solenoid connected to said recording means for bringing the recording means to recording position, and to actuate the recording means in its recording position, said solenoid being in circuit with a telephone transmitter and vibrating said recording means in accordance with variations in said circuit caused by said telephone transmitter.

1,783,762. PACKING FOR PLUNGERS. DAVID ROBERT YARNELL and JOSEPH KILDARE, Philadelphia, Pa., assignors to Yarnall-Waring Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 4, 1927. Serial No. 159,006. 2 Claims. (Cl. 288—1.)



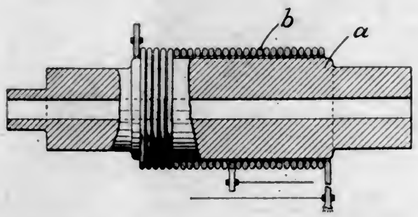
1. A packing ring comprising a molded body of asbestos, graphite and rubber in combination with a nickel alloy protective casing therefor covering one inner edge of the packing.

1,783,763. CONTROLLER. EDWARD J. ABBE, Cleveland, Ohio, assignor to The Elwell-Parker Electric Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 20, 1927. Serial No. 227,509. 11 Claims. (Cl. 200—9.)



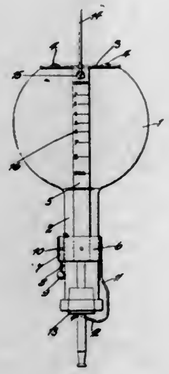
1. The combination of an acceleration control barrel, a member movable therewith, a direction control barrel, a member movable therewith, and an integrally movable interlocker device arranged to operatively contact with both members, to prevent operation of the direction control barrel when the acceleration control barrel is in "on" position.

1,783,764. PROCESS OF ZONE HARDENING STEEL ARTICLES. JAMES R. ADAMS, Hatboro, Pa. Filed June 12, 1929. Serial No. 370,360. 1 Claim. (Cl. 219—10.)



The process of heating steel articles as a step in the operation of zone-hardening, which comprises generating the major portion of the heat within an outer zone of metal by a high frequency electric induced current adapted to heat said zone to a hardening temperature, regulating the speed of the heating operation by the rate of the power input, and regulating the depth of penetration of the hardening heat by the frequency of the current and the rate of power input.

1,783,765. FLASK SUPPORTER. WALTER ANDERSSEN, St. Louis, Mo. Filed June 6, 1927. Serial No. 196,723. 3 Claims. (Cl. 215—100.)

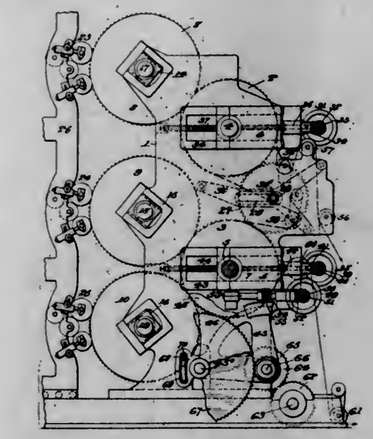


2. The combination with a flask having a neck, and a stopper in the neck, of a support for the flask comprising a pair of arms on diametrically opposite sides of the flask and neck and engaging the bottom of the flask, a ring clasp attached to said arms and engaging the neck of the flask and having its ends detached from each other and capable of being spread apart to permit application of the ring on the neck or removal of the ring from the neck of the flask, a resilient element attached to said clasp and extending to engagement with the end of the stopper and constituting an abutment preventing outward movement of the stopper, and a ball pivoted to said arms near the bottom of the flask and being movable laterally to position to permit said flask to stand upright with the neck extending upwardly.

3. A device for administering of solutions comprising a flask having a neck, and a stopper in the neck, in combination with a frame secured to the flask, a graduated scale on the frame indicating the amount of contents of the flask, a ball pivoted to the frame for supporting the flask inverted and being movable to position to permit the flask to stand upright with the neck of the flask extending upwardly, and a resilient element having one end rigid with said frame and the other end extending to engagement with said stopper to prevent outward movement of said stopper when said flask is inverted.

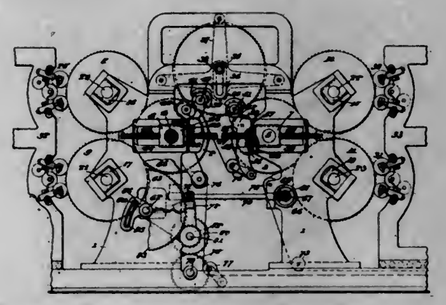
1,783,766. ROTARY WEB-PRINTING PRESS. HOWARD M. BARBER, Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a Corporation of Delaware. Filed Nov. 10, 1928. Serial No. 318,506. 9 Claims. (Cl. 101—178.)

1. In a multi-color rotary web printing press, two impression cylinders adjustable for coaction with change form cylinders of the same diameter selected from change form cylinders of different corresponding diameters, means for moving the impression cylinders into position to coact



with said selected change form cylinders and adjustable means connecting the impression cylinders for synchronous action.

1,783,767. ROTARY WEB-PRINTING PRESS. HOWARD M. BARBER, Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a Corporation of Delaware. Filed Nov. 10, 1928. Serial No. 318,507. 8 Claims. (Cl. 101—178.)

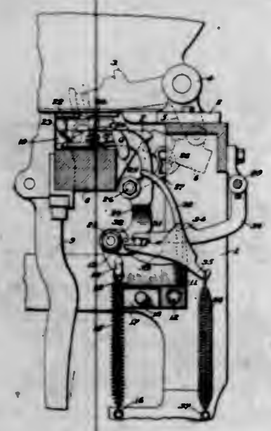


1. In a multi-color rotary web printing press, two impression cylinders, each adjustable for coaction with change form cylinders of the same diameter selected from change form cylinders of different corresponding diameters, means for moving the impression cylinders in opposite directions into positions to coact with their respective selected change form cylinders and adjustable means connecting the impression cylinders for synchronous action.

1,783,768. SHUTTLE-FEELER MECHANISM FOR LOOMS. EARL ELWOOD BASS, Fort Mill, S. C., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Jan. 29, 1930. Serial No. 424,265. 7 Claims. (Cl. 139—231.)

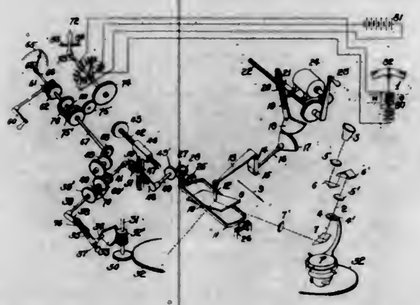
1. In a shuttle feeler mechanism for looms, the combination of a feeler support mounted on the loom frame for movement towards and from the front of the loom, means acting yieldingly upon the support to normally maintain it in rearward position, a shuttle feeler pivotally mounted on the support for movement relative there-

to towards and from the front of the loom, and yielding means connected to the feeler permitting frontward



movement thereof relative to and with said movable support should the feeler encounter the shuttle as the lay moves frontwardly.

1,783,769. BOMB SIGHT. MORTIMER F. BATES, Brooklyn, N. Y., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed June 1, 1926. Serial No. 112,811. 17 Claims. (Cl. 88—1.)



15. In a bomb sight for aircraft, a sight-directing member, means for mounting said member for turning about a vertical axis, means for mounting said member for adjustment about both the fore and aft axis of the sight, and an axis at right angles thereto, and means actuated by the turning of said member about its vertical axis for adjusting said member about said fore and aft axis to give said member the proper offset angle to compensate for the drift.

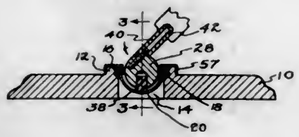
1,783,770. PROCESS OF IMPROVING THE RESISTANCE TO CORROSION OF ARTICLES OF MAGNESIUM AND MAGNESIUM ALLOYS. ADOLF BECK and GUSTAV SIEBEL, Bitterfeld, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Jan. 30, 1929, Serial No. 336,323, and in Germany Feb. 2, 1928. 3 Claims. (Cl. 148—6.)

1. The process of improving the resistance to corrosion of articles of magnesium and magnesium alloys containing at least about 8% magnesium, which comprises treating same with a boiling aqueous solution of dichromates for about an hour at least.

1,783,771. PROCESS OF MAKING CELLULOSE ESTERS OF BOTH NITRIC ACID AND AN ORGANIC ACID. FRANZ BECKER, Dessau in Anhalt, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Jan. 7, 1928, Serial No. 245,254, and in Germany Jan. 15, 1927. 3 Claims. (Cl. 260—101.)

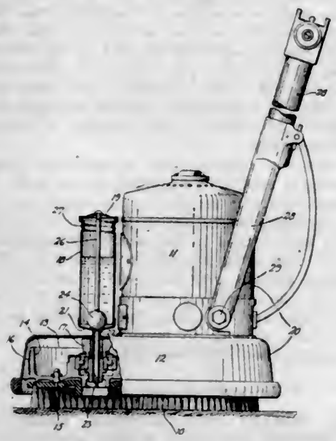
1. A process for the manufacture of cellulose esters derived both from nitric acid and an organic acid which comprises treating a cellulose material with an organic esterifying agent in the presence of an acylation catalyst which will not react with nitric acid and in the course of the process, when a partial esterification has been obtained, reacting on the intermediate product with nitric acid.

1,783,772. DESK SET. WALTER F. BENSON, St. Paul, Minn. Filed June 13, 1928. Serial No. 285,160½. 4 Claims. (Cl. 120—108.)



1. A desk set including a base having a hollow part formed with an interior annular groove, a cup disposed in said hollow part and having an annular shoulder seated in said groove so as to be rotatable therein, said cup having an elongated slot in its bottom and having an annular seat adjacent its top, a ring in said seat, a ball in the ring, diametrically opposed pins carried by the ring and extending into the ball to pivotally support same, a stop pin carried by the ball and engaged in said slot of the cup and with the end walls defining the slot to limit pivotal movement of the ball, and a pen holder carried by the ball.

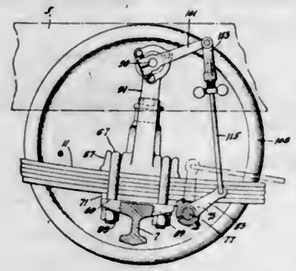
1,783,773. SURFACE-TREATING MACHINE. TORD ERIK DANIEL BILDE, Stockholm, Sweden, assignor to Inventia Patent-Verwertungs-Gesellschaft, Schaffhausen, Switzerland, a Corporation of Switzerland. Filed Aug. 21, 1929, Serial No. 387,372, and in Sweden Aug. 18, 1928. 11 Claims. (Cl. 91—39.)



1. A machine for treating floors comprising a casing, one or more rotary surface contact members within said casing, means to rotate said members and means mounted on said casing for feeding fluid to the floor comprising a container having a fluid outlet and means closing said

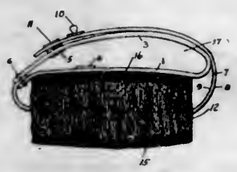
outlet during idle periods comprising a member having an appreciable mass sufficient to prevent opening of said outlet due to vibration and normal movement of the machine while being movable to uncover said outlet on abnormal movement of the machine such as to provide an inertia greater than that provided by vibration or normal movement of the machine.

1,783,774. BRAKE CROSS SHAFT MOUNTING. CARL J. BOCK, Pontiac, Mich., assignor to Yellow Truck & Coach Manufacturing Company, Pontiac, Mich., a Corporation of Maine. Filed Aug. 10, 1928. Serial No. 298,830. 3 Claims. (Cl. 188—194.)



1. In brake mechanism for vehicles, an axle, supporting springs, plates positioned between the axle and the springs, said plates having eyes located in alignment, an axle rockshaft journaled in said eyes, means to rotate said axle rockshaft, a block above each spring, means to clamp said block, spring, and plate to the axle, each block having an upwardly directed arm, brake operating shafts journaled in said brackets, and connecting means between said axle rockshaft and said brake operating shafts.

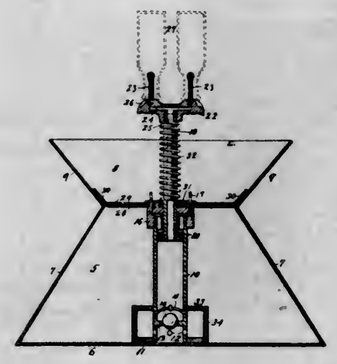
1,783,775. STEEL-WOOL HOLDER WITH PAD. RAYMOND F. BOEHLER, Jr., Springfield, Ohio, assignor to The Williams Company, London, Ohio, a Corporation of Ohio. Filed June 6, 1928. Serial No. 283,273. 4 Claims. (Cl. 15—209.)



4. A cleaning device comprising a strip of flexible material around which a pad of steel wool may be supported, a second strip of flexible material in the form of a closed loop permanently attached to one end of the first strip, and means for detachably attaching the free end of the first strip to the second strip.

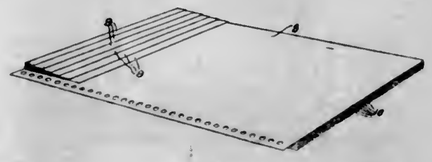
1,783,776. BOTTLE-RINSING MACHINE. FREDERICK BOESCHEL, East Rutherford, N. J. Filed Mar. 19, 1928. Serial No. 262,820. 2 Claims. (Cl. 141—7.)

1. In a bottle rinsing device, a fluid receiving tank having at its upper end a hopper provided with outwardly flaring side walls, a pump casing fixed within said tank and having at its lower end a valve controlled inlet, a cap detachably secured at the upper end of said casing, a tubular pump rod slidable in said cap and having at its lower end a piston slidable in said pump casing, a nozzle-head at the upper end of said tubular rod, and a filtering



device detachably secured to said cap and removable therewith, the said filtering device having marginal edges engaging the flaring walls of said hopper.

1,783,777. COMPENSATING DIVISION SHEET. THOMAS E. BREWSTER, Grand Rapids, Mich. Filed June 21, 1929. Serial No. 372,556. 5 Claims. (Cl. 129—1.)



1. A filler for the purposes described comprising, a plurality of lengths of thin sheet material of progressively decreasing widths located one over the other with the widest of said lengths of material at the bottom and the narrowest at the top, one of the edges of all of said lengths of material being cemented together at one end.

1,783,778. PROCESS OF TREATING BARYTES. CASPER P. DE LORE and BRACK B. MCHAN, St. Louis, Mo.; said McHan assignor to said De Lore. Filed Mar. 7, 1927. Serial No. 173,597. 4 Claims. (Cl. 23—122.)

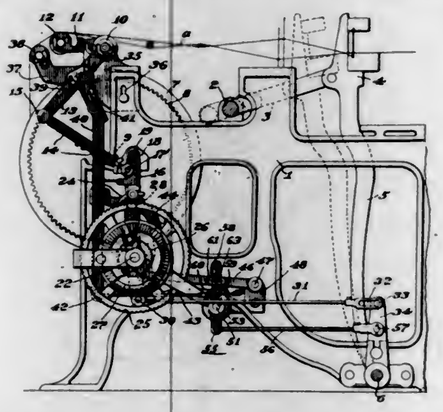
1. That step in the treatment of acid bleached barytes ore which consists in washing the ore with a wash water containing a sufficient quantity of a reducing agent to prevent oxidation of the metallic salt present with the barytes and to convert insoluble salts into a soluble salt whereby the product may be washed free of impurities.

1,783,779. LET-OFF MECHANISM FOR LOOMS. CLARE H. DRAPER, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed July 16, 1929. Serial No. 378,665. 13 Claims. (Cl. 139—110.)

1. In a let-off mechanism for looms, the combination of the warp beam, a yieldingly mounted whip roll, a ratchet and pawl for rotating the warp beam to let-off the warp, a pawl carrier and pawl setter fulcrumed at opposite ends, a radius connection between the pawl carrier and setter, means between the pawl setter and whip roll for

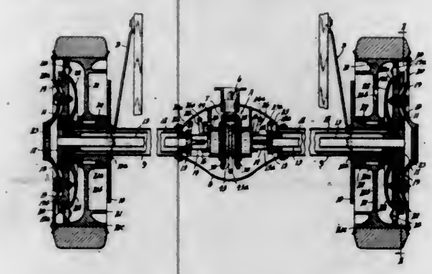
CARNEGIE LIBRARY OF ATLANTA

setting the pawl responsive to normal variations in whip roll movement, and means connecting the radius connec-



tion and whip roll for changing the position of the radius connection responsive to abnormal variation in whip roll movement.

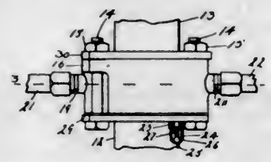
1,783,780. DRIVING-GEAR MECHANISM FOR MOTOR VEHICLES. AMOS J. EVANS, Minneapolis, Minn. Filed May 4, 1927. Serial No. 188,840. 6 Claims. (Cl. 180—70.)



2. In combination with the differential mechanism, axle housing and a traction wheel of a motor vehicle, said wheel having a disc, a tubular driving axle connectable for driving with said differential and carrying a driving element adjacent its outer end, a second driving axle concentrically disposed within said tubular driving axle and adapted to be connected for driving with said differential and also carrying a driving element adjacent its outer end, a plurality of double planetary members mounted on the disc of said wheel, each of said double members having a gear adapted to be connected with the driving element of said first mentioned driving axle and a gear adapted to be engaged with the driving element of said second driving axle.

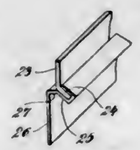
1,783,781. AIR PREHEATER FOR MANIFOLDS. EDWARD H. FALK, Philadelphia, Pa. Filed Oct. 22, 1929. Serial No. 401,443. 3 Claims. (Cl. 123—122.)

1. In an air preheater for manifolds, a casing having a passageway therethrough, the wall of said passageway forming a chamber within said casing, a pipe coiled within said chamber around the wall of said passageway, said pipe having a horizontal section which passes through said wall and extends across the passageway, said horizontal section having a series of small openings therein for the passage of air, one end of said pipe communicating with the atmosphere through the bottom wall of the casing, a spring actuated check valve for permitting the inflow of air to said pipe but preventing the flow in a reverse direction and means for connecting the interior of the casing with



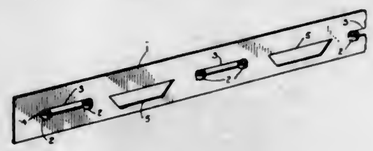
the lower portion of the water circulating system of an internal combustion engine and the upper portion of said circulating system.

1,783,782. COMPOUND FLOOR STRIP. PASQUALE GALASSI, New York, N. Y. Filed Feb. 8, 1930. Serial No. 426,882. 4 Claims. (Cl. 94—17.)



1. A divider strip for terrazzo floors or the like, comprising upper and lower longitudinal sections, one of said sections having at its inner edge an uninterrupted flange extending laterally of the body on one side only thereof, the other section having at least part of its inner edge embracing said flange so as to connect said sections to each other.

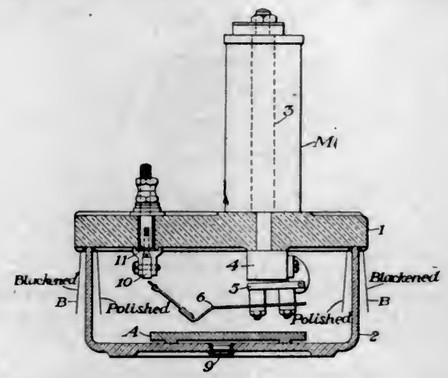
1,783,783. STRIP FOR TERRAZZO FLOORS AND LIKE STRUCTURES. GEORGE P. GRANELL, Long Island City, N. Y. Filed Nov. 21, 1928. Serial No. 320,805. 12 Claims. (Cl. 94—17.)



1. A terrazzo strip, having thereon a plurality of spaced bonding devices of substantially loop-form, and projecting from one side of the strip, the central axis of the opening of each loop-form device extending substantially at right angles to the longitudinal edges of the strip, whereby when in use such central axes are positioned substantially vertical.

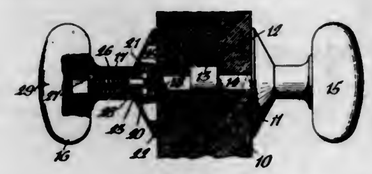
1,783,784. INSTRUMENT INCLOSED IN NONMETALLIC HOUSINGS. LARS O. GRONDAHL, Pittsburgh, and LEMUEL F. HOWARD, Edgewood, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Aug. 22, 1929. Serial No. 387,609. 9 Claims. (Cl. 200—168.)

1. In an instrument of the type comprising operating parts enclosed in a non-metallic housing, the combination therewith of a metal member located within the housing but out of contact with the operating parts, the mass of said member being such that while the ambient temperature is rising the temperature of the member will remain below the temperature of the operating parts with



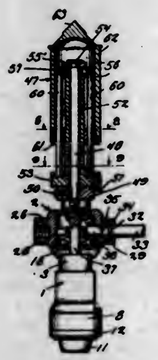
the result that if moisture laden air enters the housing the moisture will condense on the metal member rather than on the operating parts.

1,783,785. DOORLATCH. SIDNEY J. HABICHT, Buffalo, N. Y. Filed July 15, 1929. Serial No. 378,229. 4 Claims. (Cl. 292—359.)



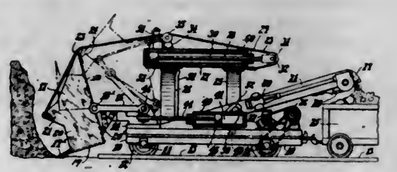
1. A door latch, comprising a bolt-actuating spindle having knobs thereon, one of said knobs being movable relatively to said spindle and having a locking element thereon, and complementary locking means applied to the spindle and to the door, said knob locking element being engageable with one of said locking means in one position of the knob and with both of said locking means in its other position.

1,783,786. COMBINATION BRACE AND BIT DRILL. WADE C. HAMILTON, Vicksburg, Miss. Filed Dec. 21, 1926. Serial No. 156,173. 1 Claim. (Cl. 77—7.)



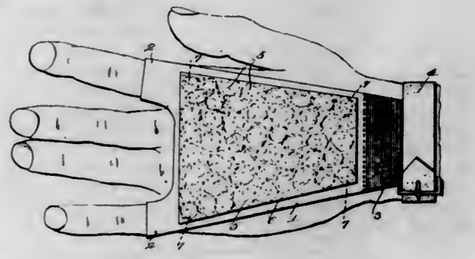
In a drill, a head, a shaft rotatably carried by said head, a chuck on one side of the head secured to the shaft for rotation therewith, means for rotating the shaft, a collar secured to the shaft on the opposite side of the head from said chuck, a laterally projecting pin carried by the periphery of the collar, an elongated exteriorly threaded sleeve surrounding and rotatably mounted upon said shaft beyond said head and collar, a flange formed on the inner end of the sleeve and resting upon said collar, an elongated housing inclosing said sleeve and having threaded connection therewith, a work engaging point formed on the outer end of said housing, said housing being designed to be held against rotary movement when the tool is in use by said work engaging point, a disc having the periphery thereof toothed resting upon said flange, a rigid connection between the disc and housing, a radially extending stub shaft carried by the periphery of the disc, and a toothed gear rotatably mounted on the stub shaft and having the teeth thereof normally meshing with the teeth of said disc, said gear being disposed to have said pin contact therewith at each revolution of the shaft to rotate said sleeve.

1,783,787. EXCAVATING MACHINE. CHARLES C. HANSEN, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 8, 1928. Serial No. 298,266. 4 Claims. (Cl. 214—90.)



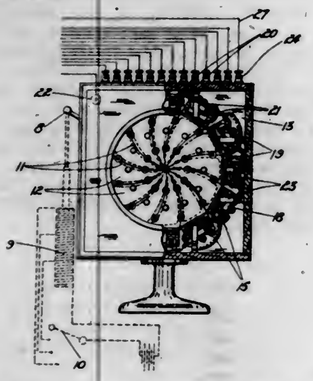
1. In a shoveling and loading machine, the combination of a carriage, a fifth wheel mounted on the carriage for oscillation about a vertical axis, a conveyer, a scoop, a link pivotally connecting the scoop to the fifth wheel and adapted to translate oscillation of the fifth wheel into sidewise movement of the scoop, said scoop being adapted to deliver its contents onto the conveyer, a cylinder pivotally supported on the carriage for oscillation about a vertical axis and having a piston and piston rod, said piston rod being directly connected to the fifth wheel to effect the oscillation thereof.

1,783,788. BRUSH. ANDREW H. HATCHETT, Sr., Cleveland, Ohio. Filed May 23, 1929. Serial No. 365,500. 3 Claims. (Cl. 15—160.)



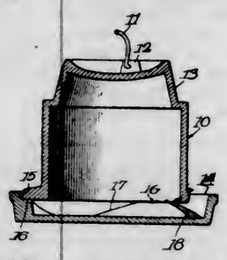
1. A surface brushing attachment for the back of the hand between the finger bases and wrist comprising a flexible pad shaped to cover the back of the hand from the bases of the fingers rearwardly to the wrist with clearance for the thumb, the front end of said pad having depending finger loops to encircle fingers at their bases, and its rear end having a wrist embracing strap element.

1,783,789. APPARATUS FOR PRODUCING COLOR MUSIC OR OTHER SPECTACULAR LUMINOUS EFFECTS. ALEXANDER BURNETT HECTOR, Greenwich, near Sydney, New South Wales, Australia. Original application filed July 7, 1927, Serial No. 204,086, and in Australia July 15, 1926. Divided and this application filed Aug. 31, 1928. Serial No. 303,306. 3 Claims. (Cl. 84—464.)



1. In improvements in the production of color music and other spectacular luminous effects, a source of light, a series of color screens in front of the light, a condenser and contracting diaphragm between said screens and light, shutters for covering and uncovering the color screens, electromagnetic means for actuating said shutters, means for sustaining any of the shutters in the open position and electrically actuated means for operating the diaphragm.

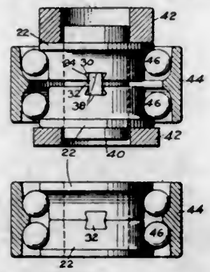
1,783,790. POULTRY FEEDER. ELMORE S. HOYT, Red Wing, Minn., assignor to Red Wing Union Stoneware Company, Red Wing, Minn., a Corporation of Minnesota. Filed Dec. 6, 1928. Serial No. 324,249. 2 Claims. (Cl. 119—77.)



1. In combination, a receptacle of frangible material open at its lower end, a trough of frangible material for receiving the lower end of said receptacle, supports within said trough integral with the bottom and sides thereof, each of said supports being tapered off at both sides thereof to form an inclined plane leading from the bottom of said trough to the top of the support from each end thereof, and supporting arms integral with and extending radially from the lower portion of said receptacle for engaging said inclined planes for elevating said receptacle when the same is rotated in either direction and for supporting the same in elevated position.

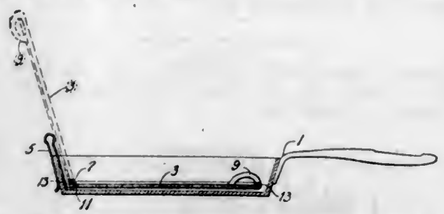
1,783,791. METHOD OF ASSEMBLING ANTIFRICTION BEARINGS. FREDERICK G. HUGHES, Bristol, Conn., assignor to The New Departure Manufacturing Company, Bristol, Conn., a Corporation of Connecticut. Filed Nov. 8, 1928. Serial No. 318,038. 6 Claims. (Cl. 29—84.)

1. The method of uniting abutted race rings of a double row bearing, which consists in cutting mating grooves in the adjacent ends of the rings at one periphery thereof, utilizing a cylindrical surface at said periphery to confine a deformable fastener in the mating grooves when the



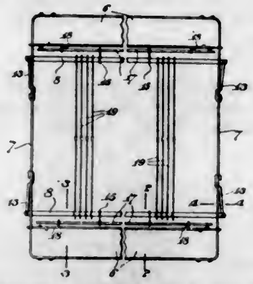
rings are separated axially, and then pressing the rings into abutting relation to upset the fastener and cause it to flow into the grooves; substantially as described.

1,783,792. COOKING UTENSIL. WILLIAM O. ISAACSON, Chicago, Ill. Filed Nov. 15, 1928. Serial No. 319,713. 6 Claims. (Cl. 53—7.)



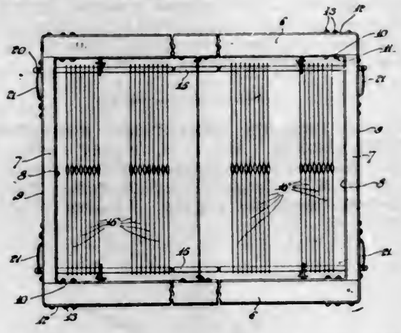
1. The cooking utensil which comprises a frying pan and means therein for holding substances flat against the bottom thereof, said means comprising a hinged glass plate.

1,783,793. LOOM HARNESS. JOHN JACOB KAUFMANN, Elkins Park, Pa., assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 28, 1928. Serial No. 289,028. 1 Claim. (Cl. 139—92.)



In a loom harness, a harness frame comprising top and bottom bars, side strips connecting said bars at their ends, a plurality of heddle supporting bars arranged at the top and bottom of the frame, said bars having their main or heddle supporting portiona spaced and having their end portions offset from the respective planes of the main portions and thereby brought together and extending side by side through common apertures in the side strips of the frame, the extending ends of the heddle supporting bars having registered apertures, and means for securing the heddle supporting bar comprising spring members carried by the side strips of the frame, said spring members having their ends bent over in hook-like form and simultaneously engaging the registered apertures in the extending ends of the heddle supporting bars.

1,783,794. HEDDLE FRAME. JOHN JACOB KAUFMANN, Elkins Park, Pa., assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 16, 1928. Serial No. 319,777. 2 Claims. (Cl. 139—92.)



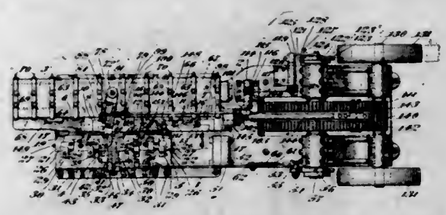
1. A heddle frame comprising top and bottom rails and end members; metallic reinforcing strips on the inner and outer faces of said end members, the ends of said reinforcing strips being bent over and secured to the top and bottom rails; heddle supporting bars mounted in said frame extending through slots in the end members and in the reinforcing strips, said heddle supporting bars having their ends projecting beyond the outer reinforcing strips; securing devices each adapted to engage one of said projecting end portions of a heddle supporting bar and comprising a member made of spring wire having one end thereof engaging the end of the heddle supporting bar, and having the other end thereof bent over and extending into the end member; the securing member having an inset portion adjacent the portion which extends into the end member of the frame, the outer reinforcing strip having a slot in which said inset portion is seated, and the securing member having a loop adjacent the portion which extends into the end member, said loop extending outwardly beyond the transverse plane of the adjacent portion of the securing member and beyond the outer face of the outer reinforcing strip.

1,783,795. MOP HEAD. DUNCAN KENNER, New Orleans, La., by court order Mrs. Emma Tujague Kenner sole heir and legatee of Duncan Kenner, deceased. Filed July 31, 1929. Serial No. 382,484. 3 Claims. (Cl. 15—229.)



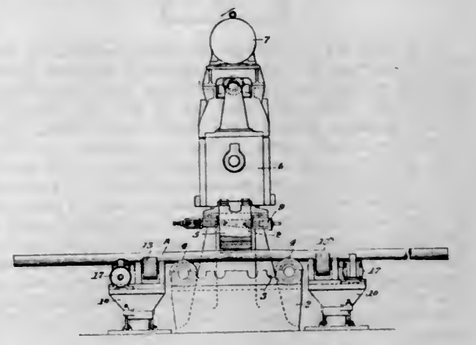
1. A mop head composed of a group of lengths of stranded material, approximately one-half the number of which have the strands twisted in an opposite direction to and toward the other half of said number.

1,783,796. HIGH-SPEED THREAD-ROLLING MACHINE. JAMES A. KINNEY, Lebanon, Pa., assignor to Bethlehem Steel Company. Filed June 28, 1928. Serial No. 289,000. 30 Claims. (Cl. 80—8.)



30. In a thread rolling machine, the combination with a pair of stationary dies, a pair of movable dies mounted in a cross-head and coacting with the stationary dies, a chute for receiving blanks having an arc-shaped bifurcated extension, cam actuated means for feeding blanks from the chute to the arc-shaped bifurcated extension, an adjustable starter mounted on a pivoted swinging lever for engaging the headed blanks in the arc-shaped bifurcated extension and adapted to deliver blanks between a pair of coacting dies on each stroke of the reciprocating cross-head, a slide mounted on the swinging lever, a rod having one end secured to a swivel connection mounted on the slide, a rocker arm having an adjustable connection for the opposite end of the rod, a rotatably mounted cam for actuating the swinging lever, means for reciprocating the cross-head and cams simultaneously, and friction means adapted to automatically stop the operation of the machine during the working stroke of the reciprocating cross-head.

1,783,797. MATERIAL-HANDLING DEVICE. CLARENCE J. KLEIN, Bellevue, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 24, 1929. Serial No. 402,132. 7 Claims. (Cl. 153—48.)

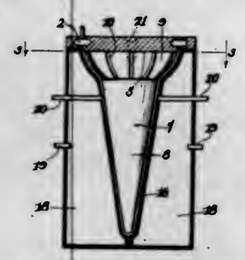


1. In combination with a straightening machine effective for applying a force on the side of an article to be straightened, means for turning the article, said turning means being yieldably mounted.

1,783,798. MOLD FOR FORMING CONES FOR ICE CREAM AND FROZEN CUSTARD. ELTON D. KOHR, York, Pa. Filed Mar. 19, 1930. Serial No. 437,166. 5 Claims. (Cl. 107—66.)

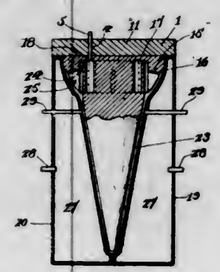
4. In a mold for the purpose set forth, a body portion formed of a pair of oppositely disposed hinged sections having coacting means on the inner faces thereof to provide, when such faces are in abutting relation a tapered pocket having a flaring upper portion, a carrier for seating on said body portion and having a depending enlargement extending into the mouth of the pocket, a core

corresponding in contour to that of the pocket, abutting, registering with and depending from said enlargement for extension into said pocket, said core providing in connection with the wall of the pocket a molding cavity, said



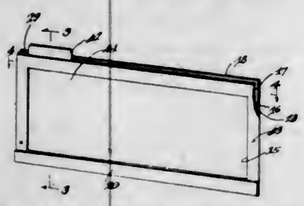
core having means at its upper end coacting with said enlargement to provide the upper end of the molding cavity with upstanding, spaced extensions, and said sections having heat receiving means and means for conducting material to the molding cavity.

1,783,799. MOLD FOR FORMING CONES FOR ICE CREAM AND FROZEN CUSTARD. ELTON D. KOHR, York, Pa. Filed Mar. 20, 1930. Serial No. 437,553. 4 Claims. (Cl. 107—66.)



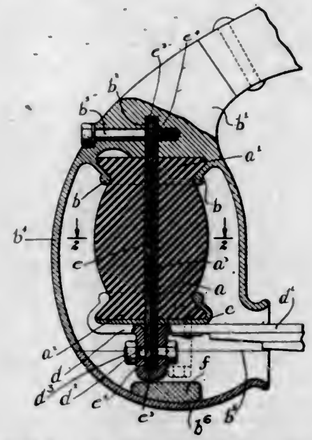
4. A mold for the purpose set forth comprising a body portion formed of a pair of oppositely disposed hinged sections having coacting means on the inner faces thereof to provide, when said faces are in abutting relation a pocket having a tapered lower portion and a flaring upper portion, a hinged carrier seating on said body portion, a core secured to said carrier for positioning in said pocket, said core conforming in contour substantially to the shape of said pocket and coacting with the wall of the latter to provide a molding cavity, said core having means in its upper portion to provide the upper end of the molding cavity with radially disposed extensions and vertically disposed perpendicular extensions of arcuate form, said core and said sections having heat receiving means, and means for conducting the material to be molded to the molding cavity.

1,783,800. HOUSEHOLD BUDGET SYSTEM. JAMES E. KREILING, Chicago, Ill. Filed Mar. 19, 1928. Serial No. 262,606. 2 Claims. (Cl. 129—16.7.)



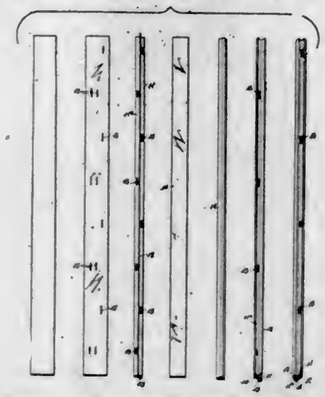
1. A blank for an envelope comprising a front portion having an opening therein, a portion disposed in horizontal alignment with said front portion and connected thereto along one edge, another portion disposed in vertical alignment with said front portion and connected thereto along one edge, said front portion having a flap formed thereon along the edge opposite said edge having said horizontally aligned portion connected thereto, said horizontally aligned portion having a flap formed thereon on the upper edge thereof, and a flap formed on the upper edge of said vertically aligned portion.

1,783,801. CUSHION CONNECTION FOR VEHICLE CONSTRUCTION. AUGUST H. LEIPERT, College Point, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed May 17, 1926. Serial No. 109,479. 3 Claims. (Cl. 267—30.)



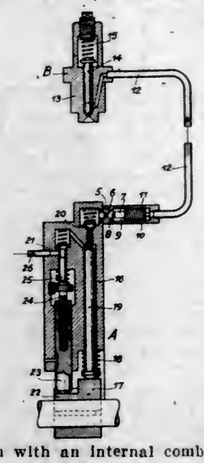
1. A shackle connection between the spring and frame of a vehicle comprising an inelastic, flexible fabric strip connected at its ends to the spring and frame, respectively, to prevent, positively, the separation thereof, the strip having a greater width than thickness to prevent sidesway of the vehicle body, seats on the spring and frame, and a block of yielding non-metallic material mounted in the seats to cushion movements of one toward the other.

1,783,802. WELDING STRIP FOR GOLF SHAFTS. HERBERT CONRAD LAGERBLADE, Bristol, Conn., assignor to The Horton Manufacturing Company, Bristol, Conn., a Corporation of Connecticut. Filed June 12, 1928. Serial No. 284,840. 6 Claims. (Cl. 113—110.)



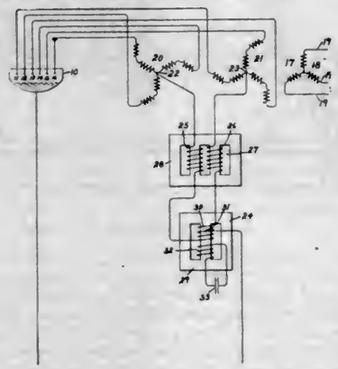
1. A connecting member for brazing the abutting edges of a tube formed from a thin sheet steel blank, said connecting member comprising a steel strip having substantially plane portions adapted to lie between said abutting edges and against the inner surface of the tube adjacent said abutting edges, respectively, and a strip of copper attached to said steel strip adapted to fill the interstices between and unite said abutting edges and said steel strip throughout their approximate surfaces when brought to a brazing temperature, said steel strip being interposed between said strip of copper and the inner surface of the tube, and means for facilitating entry of the copper when fused into said interstices.

1,783,803. INTERNAL-COMBUSTION ENGINE. FRANZ LANG, Munich-Nymphenburg, Germany, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Filed Dec. 24, 1926, Serial No. 156,960, and in Germany Oct. 8, 1926. 1 Claim. (Cl. 123—140.)



In combination with an internal combustion engine, a fuel supply pump, an injection nozzle, a conduit connecting the discharge side of said pump with said nozzle, means for relieving the pressure in said conduit near the end of the pressure stock of said pump, and a non-return valve in said conduit operable to allow fuel to flow in said conduit toward said pump when the pressure in said conduit does not exceed a predetermined pressure, said valve preventing flow of fuel in said conduit when the pressure exceeds said predetermined pressure.

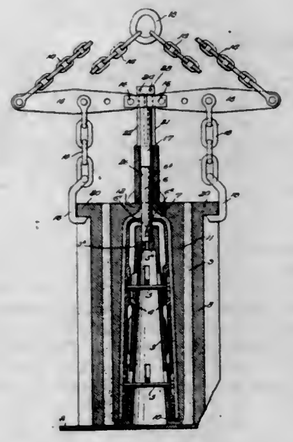
1,783,804. ELECTRIC SYSTEM. THOMAS C. LENNOX, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Mar. 15, 1929. Serial No. 347,399. 8 Claims. (Cl. 175—363.)



1. The combination of a polyphase transformer, a direct current circuit, a space discharge device interposed between said transformer and said circuit, and an interphase system including a reactor connected between said polyphase transformer and said circuit, and means operable to regulate the reactance drop of said reactor in response to the alternating component of the current of said interphase system.

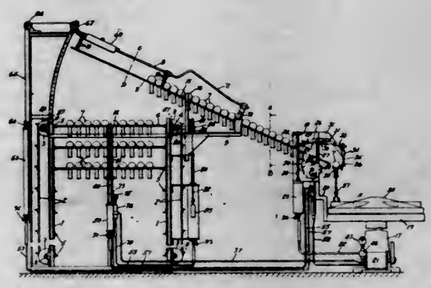
7. The combination of alternating and direct current circuits, a polyphase transformer and a mercury arc rectifier arranged to translate power between said circuits, and an interphase system including a reactor and a condenser arranged to produce a predetermined and substantially constant voltage over the full range of load on said rectifier.

1,783,805. MOLDING APPARATUS. FRANK J. LEUTHNER, Sharpsville, Pa. Filed Aug. 2, 1929. Serial No. 382,941. 8 Claims. (Cl. 22—133.)



1. Molding apparatus, comprising a collapsible core having inner and outer core members, the inner core member having a hole in its top receiving an upstanding pin, and communicating ducts in the top of the inner core member below the hole and in the pin.

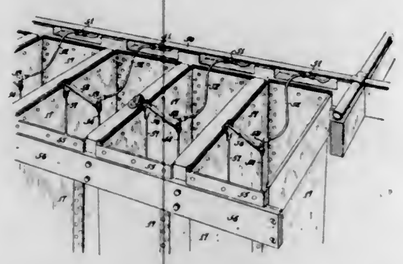
1,783,806. BULB FEEDER FOR SEALING-IN MACHINES. WALTHER-WINFRIED LOEBE, Waidmannslust, Berlin, WILLY LEDIG, Berlin, and HEINRICH ASMUSSEN, Charlottenburg, Berlin, Germany, assignors to General Electric Company, a Corporation of New York. Filed Oct. 1, 1928, Serial No. 309,479, and in Germany Nov. 28, 1927. 14 Claims. (Cl. 49—2.)



1. In a feeder for bulbs and similar articles, the combination with a stationary inclined bulb delivery chute

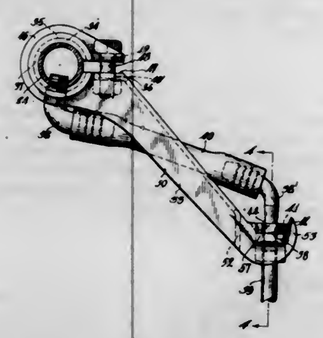
and a bulb delivery device at the lower end of said chute for discharging bulbs from said chute one by one, of a tray holder for holding in a predetermined horizontal position a tray with parallel rows of holes, a bulb lifter for holding a row of bulbs loosely and mounted to move in the plane of a row of holes in the tray in said holder from a position adjacent said tray to a feeding position in which it automatically feeds the bulbs in it to the upper end of said bulb delivery chute, and actuating mechanism for moving said bulb lifter vertically and actuating said delivery device in synchronism.

1,783,807. ICE-MAKING SYSTEM AND METHOD OF OBTAINING DRY AIR. JOSEPH A. MARTOCELLO, Philadelphia, Pa. Filed Nov. 14, 1923. Serial No. 674,748. 14 Claims. (Cl. 62—159.)



1. In an ice plant, a bracket having a passage flared at its upper end, a ferrule seated in said flare, an air tube supported by the ferrule, capable of oscillatory movement to swing the ferrule in the flare and a lock collar below the bracket and preventing removal of the tube through the bracket.

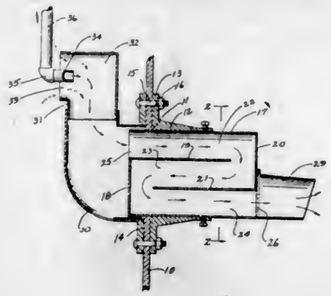
1,783,808. SUPPORT FOR DROP TUBES. JOSEPH A. MARTOCELLO, Philadelphia, Pa. Filed Oct. 1, 1927. Serial No. 223,452. 21 Claims. (Cl. 62—159.)



5. An air lateral, a drop tube, an air connection with the lateral, a nipple terminating the air connection and engaging the tube, and a bracket supporting the tube and straddling the air connection at the lateral to protect the connection by the side walls of the bracket.

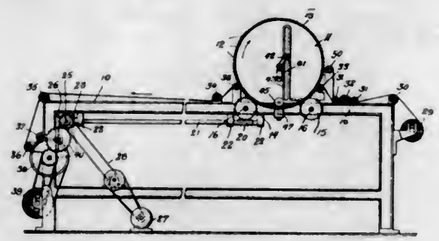
1,783,809. FURNACE ATTACHMENT. MORRIS OWEN, Oak Park, Ill. Filed June 4, 1928. Serial No. 282,734. 1 Claim. (Cl. 110—49.)

In combination with a door of a fire box having an opening therein, a member secured to the inner wall of said door including an annular flanged portion disposed around said opening, said member including a portion protruding substantially right angularly therefrom, said protruding portion being aligned with the opening in said door and providing a sleeve, a cylindrical member disposed in said sleeve portion and extending through said opening in said door, means for securing said cylindrical member in said sleeve, said cylindrical member having partially closed end portions providing oppositely disposed openings in the ends of said member, said end portions having portions integral therewith providing shelves extending inwardly from said end portions and extending longitudinally through said cylindrical member



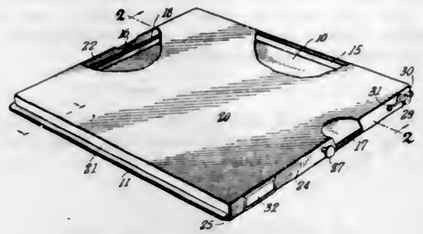
whereby a tortuous passage is provided through said cylindrical member, a discharge spout arranged over the opening in the rear end portion of said cylindrical member, a ring secured to the outer face of said fire door, means connected to said ring providing a passage communicating with the tortuous passage in said cylindrical member and communicating with said discharge spout through said tortuous passage, an elbow structure retained by said ring portion, a housing mounted on the upper end of said elbow structure, said housing having an opening provided in one wall thereof, and a pipe member extended through said last named opening and projecting upwardly from said housing structure.

1,783,810. STENCIL PRINTING MACHINE. JOHN H. PETERSEN, West New York, N. J. Filed June 8, 1929. Serial No. 369,412. 2 Claims. (Cl. 101—119.)



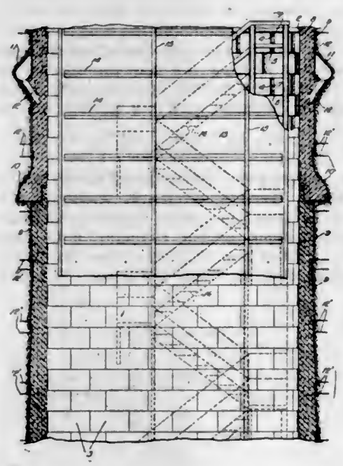
1. In a stencil printing machine, the combination of a frame, a stencil cylinder open at each end, a ring gear on each end of said cylinder, shafts rotatably supported on said frame in spaced parallel relation in substantially the same horizontal plane, a pair of pinions on each shaft in mesh with said gears, means to drive one of said shafts to rotate said cylinder, and rollers on said frame in rolling contact with said gears, to prevent the axial movement of said cylinder.

1,783,811. MAGAZINE FOR PRINTERS' TYPE. GEORGE M. PORTER, New York, N. Y. Filed Aug. 4, 1930. Serial No. 472,838. 11 Claims. (Cl. 276—40.)



1. A type magazine comprising a tray having walls less than type high, a cover having means interengageable with the front and rear ends of said tray, and means to positively lock the cover when so engaged.

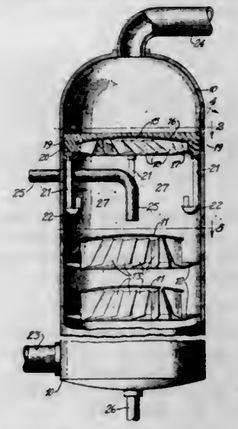
1,783,812. MINE-SHAFT CONSTRUCTION. ROBERT V. PROCTOR, Youngstown, Ohio, assignor to The Commercial Shearing and Stamping Company, Youngstown, Ohio, a Corporation of Ohio. Filed Mar. 5, 1929. Serial No. 344,368. 3 Claims. (Cl. 61—41.)



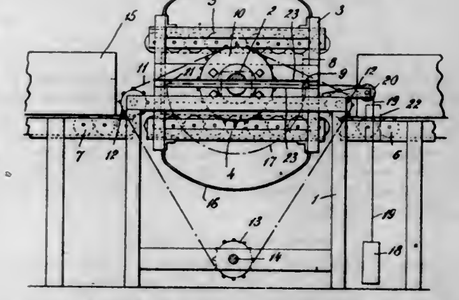
1. A mine shaft construction comprising a plurality of metal liner plates connected to form an inner lining for the shaft, an outer lining of concrete, water rings arranged outside of the concrete lining, and means for draining the water collected by said rings.

1,783,813. COLUMN. CLAUDE B. SCHNEIBLE, Evanston, Ill., assignor to Claude B. Schneible, K. F. Schreier, and Benjamin B. Schneider as trustees under the name of Joseph Schneible Trust. Filed May 16, 1927. Serial No. 191,740. 11 Claims. (Cl. 183—80.)

1. A liquid separator for a column of the type described, comprising a baffle ring and a baffle plate, vanes between said ring and plate and inclined to the radial direction, said baffle ring forming a trough adjacent the wall of the column for the purpose of receiving precipitated entrained liquid, and conduit means for withdrawing liquid from said trough.



1,783,814. CARTON HANDLING AND SEALING APPARATUS. ARTHUR C. SCHROEDER, Syracuse, and WALLACE D. KIMBALL, New York, N. Y., assignors to Standard Sealing Equipment Corporation, Long Island City, N. Y., a Corporation of New York. Filed Feb. 21, 1927. Serial No. 169,889. 15 Claims. (Cl. 93—7.)

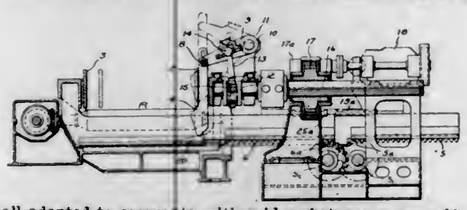


1. Carton handling apparatus of the class described comprising a conveyer having a plurality of cartons thereon, a receiving element for receiving cartons successively discharged from said conveyer, means for arresting the movement of the received carton in said receiving element, means for actuating said receiving element at predetermined timed intervals to invert the carton therein and means for actuating said arresting means to effect discharge of the inverted carton from said element.

1,783,815. MANIPULATOR. JOHN A. SMITMANS, Pittsburgh, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 19, 1927. Serial No. 192,769. 19 Claims. (Cl. 80—48.)

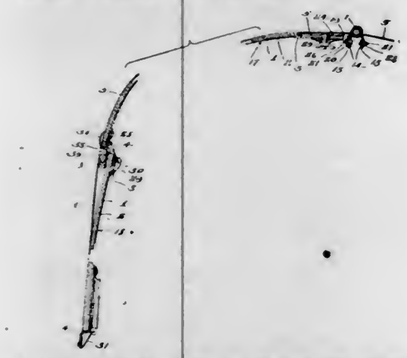
8. The combination with a manipulator having a stationary frame and a movable side guard having a plurality of tilting fingers associated therewith, of operating means for the tilting fingers, said means including a plurality of levers to which the fingers are attached, said levers being mounted on rotatable means controlled by

a common rotating mechanism, the rotating mechanism comprising a lever attached to the rotatable means, said lever having a socket thereon, a pitman terminating in a



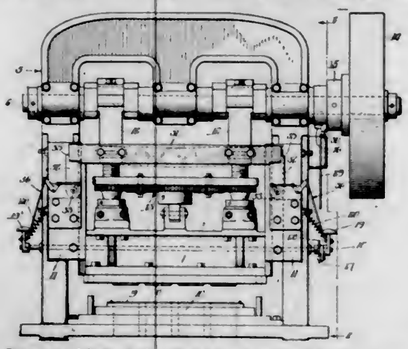
ball adapted to cooperate with said socket, means movable in a substantially circular path for operating the pitman, and connecting means attaching the pitman operating means to the pitman.

1,783,816. LINING FOR AUTOMOBILE HOODS. ROBERT J. STEPHENSON, Auburn, N. Y., assignor to Stephenson Protectahood Corporation, Auburn, N. Y., a Corporation of New York. Filed Apr. 10, 1925. Serial No. 22,185. 7 Claims. (Cl. 180—69.)



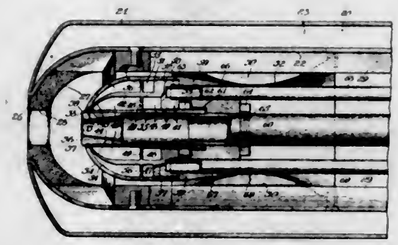
6. An insulating lining for application to motor vehicle hoods, comprising a sheet of heat insulating material and devices fastened to an edge of said sheet cooperative with the hood for detachably securing the sheet in position adjacent the inner surface of the hood, and separate fastening means secured to said sheet for suspending a second sheet of heat insulating material therefrom independently of the hood.

1,783,817. SAFETY ATTACHMENT FOR PUNCH PRESSES. BENJAMIN J. VICTOR, Oak Park, Ill., assignor to Victor Manufacturing & Gasket Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 9, 1929. Serial No. 412,727. 10 Claims. (Cl. 192—131.)



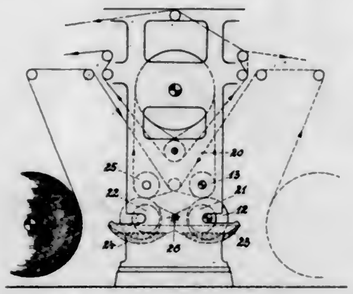
1. In a machine of the character described, the combination of a main frame, a crank shaft and means for operating the same, a ram, rods connecting the ram to the crank shaft for operating the ram, a cross bar rigidly fastened to said connecting rods, a plurality of separate and independent means on the main frame cooperating with the cross bar to lock the ram normally in initial position, and separate and independent means for releasing said locking means from said cross bar to permit operation of the ram, said releasing means being spaced apart and requiring conjoint operation and the use of both hands of the operator to release said locking means.

1,783,818. BURNER STRUCTURE. FRANK J. WERNER, Portage Township, Porter County, Ind. Filed May 31, 1924. Serial No. 717,034. 14 Claims. (Cl. 158—74.)



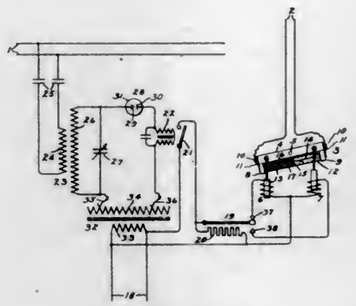
12. In multiple purpose burners, a hollow inner tube, means comprising separate casing walls for forming a restricted passageway parallel to said tube, said casing walls curving directly toward the tube approximately at right angles and having an annular opening between them so as to direct a narrow unobstructed flow across the path of the flow surrounding the tube and immediately adjacent the latter, the tube terminating beyond the annular opening whereby the flow through such opening and the passageway having approximately equal areas in subsequently combined with flow issuing from the inner tube.

1,783,819. ROTARY INTAGLIO-PRINTING MULTI-MACHINE. OTTMAR WILHELM, Augsburg, Germany, assignor to Maschinenfabrik Augsburg-Nuernberg, Aktiengesellschaft, Augsburg, Germany, a Corporation of Germany. Filed Dec. 16, 1927, Serial No. 240,356, and in Germany Dec. 18, 1926. 5 Claims. (Cl. 101—152.)



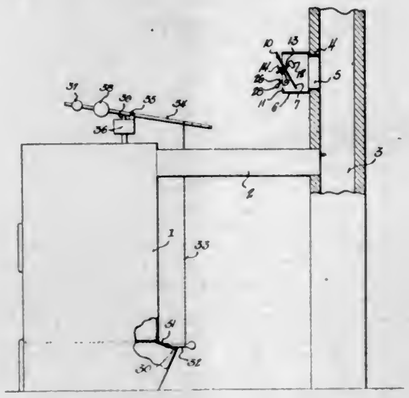
1. In a rotary multi-machine for intaglio printing, the combination of an exchangeable form cylinder with two alternative bearings therefor, said bearings being so arranged that said form cylinder when placed in one of said bearings may be rotated in one direction and when placed in the other bearing, in the other direction, and a scraper disposed intermediate said bearings and adapted to be turned to either side.

1,783,820. REMOTE CONTROL SYSTEM. HUGH E. ALLEN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 2, 1925, Serial No. 54,152. Renewed May 2, 1930. 6 Claims. (Cl. 175—375.)



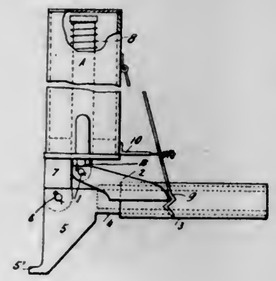
4. In combination, a plurality of electromagnets adapted to control an electric circuit, means for controlling the energization of said electromagnets, said means comprising a control circuit including a discharge device and a relay, a source of potential connected to said control circuit the value of the potential being somewhat lower than that required to break down the discharge device and produce a flow of current in the control circuit, means whereby a high frequency current may be supplied to the control circuit to impress on the control circuit a potential great enough to cause current to flow therethrough from said source and to energize said relay to close a circuit for one of said electromagnets, and means for automatically opening the circuit for said one electromagnet after a predetermined period of time and closing a circuit to another of said electromagnets.

1,783,821. HEATER CONTROL. GALEN D. BARKER, Dowagiac, Mich. Filed June 15, 1929. Serial No. 371,075. 3 Claims. (Cl. 236—9.)



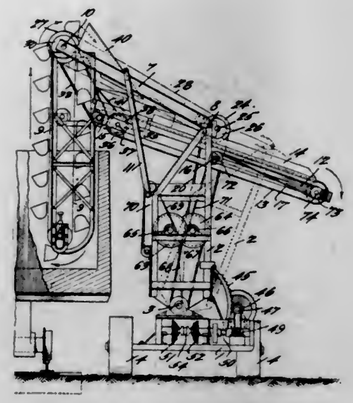
1. A control for heaters comprising a damper casing having its ends open and having one end communicating with the stack for the heater and the other end communicating with the atmosphere, a balanced damper supported on said casing for free movement under the influence of a draft, an adjustable bias for the damper operating to prevent movement thereof until the draft has reached a predetermined value, a direct draft damper and a diaphragm regulator connected to the direct draft damper and positively controlling the opening and closing thereof in response to conditions in the heater.

1,783,822. AUTOMOBILE JACK. ALFRED JEAN GUSTAVE BOLARD, Vernon, France, assignor to "Rusbol," Société à Responsabilité Limitée, Clichy, France, a Corporation of France. Filed Jan. 7, 1928, Serial No. 245,091, and in France Dec. 7, 1927. 6 Claims. (Cl. 254—93.)



1. In an automatic jack for automobiles having a chassis and a wheel hub, the combination of fluid operated means fixed to said vehicle, a piston rod associated with said means, a jack foot pivoted to the extremity of said piston rod, means for engaging said hub carried by said first mentioned means and means associated with said piston rod, said jack foot and said hub engaging means for causing said chassis and said hub to be lifted simultaneously when said jack foot engages the ground.

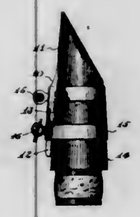
1,783,823. UNLOADING MACHINE. EDWARD L. BRADT, Shreveport, La., assignor to Armbruster, Inc., Shreveport, La., a Corporation of Louisiana. Filed Aug. 12, 1929. Serial No. 385,183. 9 Claims. (Cl. 198—88.)



1. In an unloading machine, a vertically disposed mast structure pivotally supported for tilting movement transversely of its support, a boom element hinged at one end to the mast, a depending endless conveyor suspended from the outer end of the boom, a strut supporting arm for

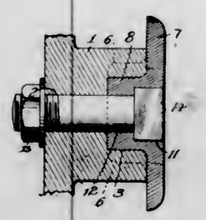
the boom, said arm being connected to the boom intermediate its ends and having a vertically sliding connection with the mast to adjust the elevation of said conveyor, and additional means for adjusting the angular dependent position of the conveyor relative to the vertical mast.

1,783,824. REED FOR MUSICAL INSTRUMENTS. FRED A. BRENNER, Belleville, Ill., assignor to Gretsch & Brenner, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 27, 1929. Serial No. 388,784. 2 Claims. (Cl. 84—383.)



1. A musical reed having a base portion, said base portion having a recess in the inside thereof, and a piece of resilient material secured in said recess, for the purposes specified.

1,783,825. CRANK PIN AND COLLAR. GEORGE BROWN, Oneonta, and ABRAHAM B. APPLER, Albany, N. Y. Filed May 7, 1924. Serial No. 711,734. 2 Claims. (Cl. 74—38.)



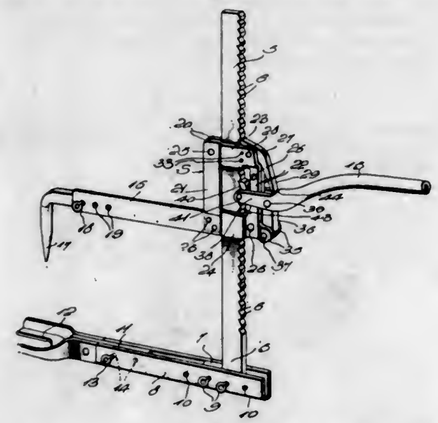
2. In combination with a crank pin having a recess in the end thereof of a shape other than circular, of a collar of greater diameter than the pin adapted to be engaged with the end thereof, said collar having an irregularly shaped recess formed in its outer face and a projection formed on its inner face to be received in the recess of the pin and of a shape corresponding therewith to prevent rotation of the collar relative to the pin, and removable means passing longitudinally through the pin and through the collar to prevent longitudinal separation of the collar from the pin, said removable means including an irregularly shaped head adapted to be received in the irregularly shaped recess formed in the outer face of the collar.

1,783,826. RACK-ROD ASSEMBLY FOR SCALES. ROBERT J. BURKE, Latrobe, Pa., assignor to Lincoln Scale Corporation, Latrobe, Pa., a Corporation of Delaware. Filed Jan. 7, 1929. Serial No. 330,779. 6 Claims. (Cl. 74—27.)



1. A rack rod assembly comprising a bearing block, a bracket supported by said block, a rack rod carried by said bracket, and means for adjusting said bracket laterally of said bearing block.

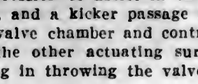
1,783,827. VALVE-SPRING LIFTER. CHARLES W. CARR, Meadow Grove, Nebr. Filed Sept. 27, 1928. Serial No. 308,704. 4 Claims. (Cl. 254—108.)



1. In a device of the class described, a shank having longitudinally spaced teeth, a slide on said shank, a lever mounted on said slide and having a work-performing dog engageable with said teeth, and a holding dog also mounted on said slide and engageable with said teeth, said slide having a portion to strike and release said work-performing dog when the lever is moved to one extreme position, said lever being provided with a portion to then strike and release said holding dog.

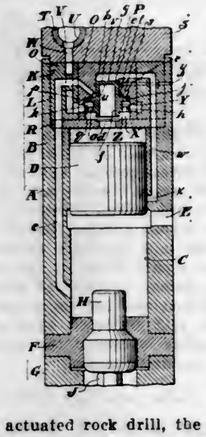
1,783,828. METHOD OF PRODUCING AN ORNAMENTAL SURFACE ON GRANITE. ELROY A. CHASE, Northfield, Vt., assignor to Rock of Ages Corporation, Burlington, Vt., a Corporation of Vermont. Filed Sept. 17, 1928. Serial No. 306,327. 2 Claims. (Cl. 41—39.)

2. The method of producing an ornamental surface on a granite block which consists in providing a smooth surface of a pleasing texture on said block, forming and shaping a design therein, placing a screw over said block of granite and sand-blasting the surface around said design through said screen to reproduce the apertures of said



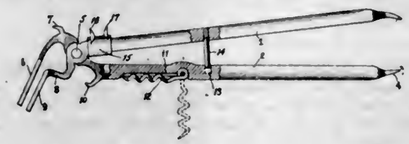
screen in the originally prepared smooth surface of the granite block, and in separately covering said design surface and said surface around the design each with a protective coating while the sand blasting of the other surface is being performed.

1,783,829. VALVE FOR ROCK DRILLS. JOHN C. CURTIS, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Feb. 19, 1930. Serial No. 429,554. 2 Claims. (Cl. 121—19.)



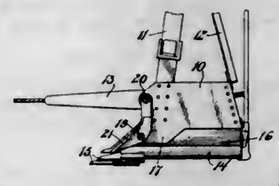
1. In a fluid actuated rock drill, the combination of a cylinder having a piston chamber and a hammer piston in the piston chamber, an exhaust port in the cylinder, a valve chest having a valve chamber, inlet passages leading from the valve chember to the piston chamber, a valve in the valve chamber controlling the inlet passages, a pair of flanges on the valve having apertures therein through which pressure fluid flows to the inlet passages, a supply passage in the valve chest for introducing pressure into the valve chamber between the flanges, pressure areas on the flanges against which the pressure fluid flowing through the apertures acts for throwing the valve, opposed actuating surfaces on the valve, one of said actuating surfaces being intermittently exposed to compression to assist in throwing the valve in one direction, and a kicker passage leading from the cylinder to the valve chamber and controlled by the piston to expose the other actuating surface to pressure fluid for assisting in throwing the valve in the opposite direction.

1,783,830. KITCHEN UTENSIL. ALBERT C. DENMARK and LOUIS O. BRYANT, Austin, Tex. Filed June 1, 1928. Serial No. 282,167. 2 Claims. (Cl. 30—3.)



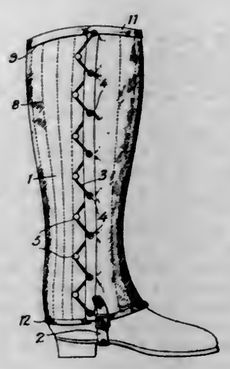
1. A tool comprising a pair of handles, a flattened portion formed on one end of each of the handles, means pivotally connecting said flattened portions in overlapping relation to each other and one of said portions extending into a plane above the handles, a pointed and hook-shaped member formed on the upper edge of said last named flattened portion and extending upwardly and outwardly of the handles, a cutting element slidable on one of the handles to cooperate with the hook-shaped member in forming a can opener, and means to maintain the handles in fixed relation while in operation as a can opener.

1,783,831. EXCAVATOR SCOOP. ROBERT REX DOWNIE, Beaver Falls, Pa., assignor to Keystone Driller Company, Beaver Falls, Pa., a Corporation of Pennsylvania. Filed May 22, 1926. Serial No. 111,002. 30 Claims. (Cl. 214—145.)



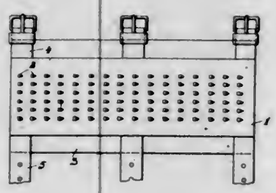
1. The combination with an excavating scoop having side walls and a member spanning the width of the scoop, of a pivot member at each side connecting the spanning member with the side wall, a rake tooth at each side, and means cooperating with the pivot member to rigidly secure the rake tooth to the side, a portion of the rake tooth extending in front of the pivot member and said cooperating means to protect the same from injury during the digging operation.

1,783,832. PUNCTUREPROOF LEGGING. PAUL WESLEY ELLIS, Clearwater, Fla. Filed Nov. 22, 1928, Serial No. 321,104. Renewed Sept. 23, 1930. 3 Claims. (Cl. 36—2.)



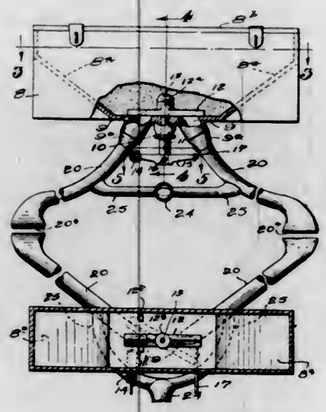
1. A legging for protecting the wearer from punctures comprising an outer covering of non-metallic flexible material, a strip of sheet metal extending vertically along the front of the leg and strips of metal extending vertically along the sides, the rear edges of the side strips overlapping the forward edges of the next strip in its rear.

1,783,833. NONSLIP DEVICE FOR USE WITH SKIS. ALOIS ELSNER, Brunn, Czechoslovakia. Filed Mar. 19, 1930, Serial No. 437,118, and in Czechoslovakia Jan. 23, 1929. 6 Claims. (Cl. 208—184.)



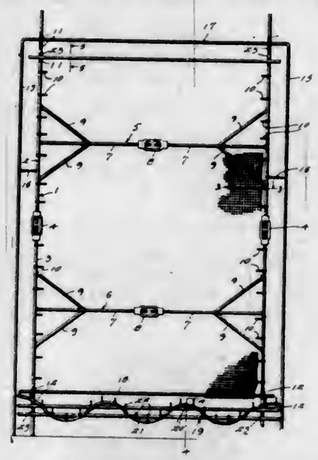
1. A non-slip device for use with skis comprising metal teeth adapted to be fastened to the bottom of said skis, said teeth having a triangular cross section.

1,783,834. VEHICLE SANDING DEVICE. WILLIAM H. H. EVERETT, Newton Falls, Ohio. Filed Dec. 26, 1929. Serial No. 416,625. 4 Claims. (Cl. 291—19.)



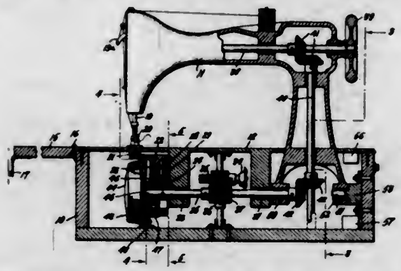
1. A sanding device for automobiles comprising a sand supply container having spaced outlets in its bottom, a valve stem bearing extending from said container bottom at a point between said outlets, a rotatable valve adapted in one position to simultaneously close said outlets, spring means normally tending to urge said valve in a direction to close said outlets, stop means adapted to engage said valve to limit movement thereof under the influence of said spring, a cross-head rigidly secured to said spring, said valve having a stem extending through said bearing and carrying said cross-head beneath said container, the spring being connected to one end of said cross-head, means operable from the driver's seat of the vehicle and connected to the other end of said cross-head for actuating said valve against the tension of said spring, said cross-head being disposed below said outlets, discharge connections communicating with said outlets and arranged at either side of said bearing and cross-head and converging toward one another in the direction of said container above said cross-head, the exhaust manifold of the automobile being arranged immediately below said cross-head and bearing and having connection branches communicating with said discharge connections whereby to communicate heat thereto for transmittal to said container and bearing through said discharge connections, and means for maintaining said valve in contact with the bottom of said container and for holding said stem in assembly with said valve.

1,783,835. CURTAIN STRETCHER. ELMER B. FENTON and WILBUR C. FENTON, Cedar Rapids, Iowa. Filed Feb. 21, 1929. Serial No. 341,782. 2 Claims. (Cl. 45—24.)



1. A curtain stretching and drying device comprising a frame consisting of a pair of substantially parallel side bars, connecting members between said side bars inwardly of the ends thereof, means whereby said side bars may be lengthened or shortened, means whereby the side bars may be shifted relative to one another, curtain edge engaging members connecting said side bars adjacent their ends, and means forming a part of one of said curtain edge engaging members whereby a scalloped edge of a curtain may be engaged throughout its length for stretching the scalloped portions said scalloped edge engaging means comprising a plurality of spaced transverse bars and a sinuous member mounted thereon.

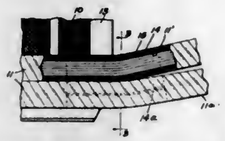
1,783,836. SEWING MACHINE. FRANK E. FINLAYSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 6, 1928. Serial No. 297,617. 16 Claims. (Cl. 112—220.)



1. A sewing machine including a bedplate and an arm, means carried by said arm and said bedplate cooperating to form stitches in the material being sewn, and means for movably supporting said arm on said bedplate for movement about an axis substantially parallel to said arm to provide for moving said arm relative thereto in folding the machine.

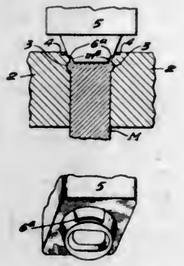
1,783,837. HIGH-VOLTAGE APPARATUS. EDWARD H. FREIBURGHOUSE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 1, 1927. Serial No. 223,417. 2 Claims. (Cl. 171—206.)

1. In a high voltage apparatus having a slotted core structure, an insulated winding extending through the slots in said core structure and projecting therefrom, and means comprising a shield arranged on the projecting portion of said winding for distributing the dielectric stress around the projecting portion of said winding adjacent said core structure for protecting the insulation of said winding against electrical discharge, said shield comprising a layer of lower resistance material extending from



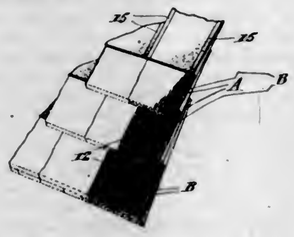
within said slot outwardly beyond said core structure and a layer of high resistance material having a resistance intermediate that of copper and the winding insulation, and entirely covering the layer of low resistance material, said shield extending from within said slot outwardly from said core structure beyond said layer of low resistance material.

1,783,838. METHOD OF PUNCHING MATRICES. HERMAN R. FREUND, Brooklyn, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Sept. 18, 1929. Serial No. 393,560. 3 Claims. (Cl. 101—401.2.)



1. The method of punching a character-forming cavity in a matrix which comprises impressing the character-forming cavity in the edge of the matrix and depressing the upstanding wall which separates a side of the cavity from a side of the matrix.

1,783,839. ROOF COVERING. HENRI GAUVIN, Ottawa, Ontario, Canada. Filed Dec. 27, 1929. Serial No. 416,895. 7 Claims. (Cl. 154—51.)



1. As a new article of manufacture, a roof covering comprising an envelope, brush material held within the envelope and projecting outwardly therefrom, and a cementitious material within the envelope about the brush material.

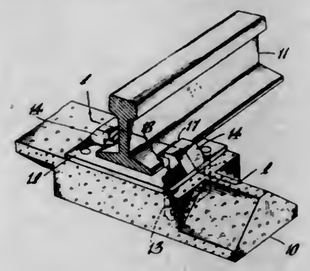
7. As a new article of manufacture, a roof covering comprising an envelope, brush material within the envelope projecting outwardly therefrom and comprising a plurality of individual strands each surrounded with a metal spiral.

1,783,840. NECKTIE HOLDER. LAWRENCE EBERT GOELLER, Circleville, Ohio. Filed Mar. 15, 1930. Serial No. 436,206. 2 Claims. (Cl. 211—89.)



1. A holder for ties and the like comprising a base and holding element, the latter consisting of superposed loops of resilient straps, said loops each having opposite sides secured together the major part of their length leaving openings at each end, said loops secured together centrally in superposed relation to form openings between said adjacent loops on either side of said center.

1,783,841. RAIL TIE PLATE AND FASTENER. GEORGE C. HABICHT, Snyder, N. Y. Filed Mar. 13, 1930. Serial No. 435,433. 3 Claims. (Cl. 238—304.)

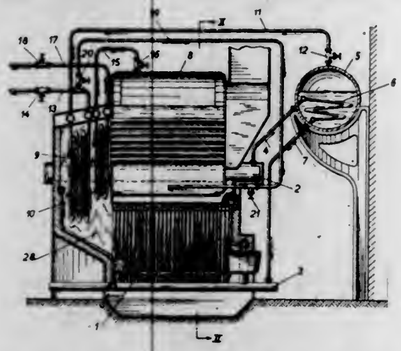


1. A fastening device for railroad rails and the like, comprising a plate adapted for attachment to a support, hook-shaped lugs rising from opposite sides of said plate for receiving the rail between them in spaced relation thereto, the underside of the overhanging portion of each lug being inclined in a direction lengthwise of the rail and the top side of the plate beneath said overhanging hook-portion being similarly inclined, and locking bars disposed in the spaces between the rail and said plate-lugs and each having its top and bottom faces inclined in substantially parallel relation to the opposing inclined sides of the plate and its hook.

1,783,842. MULTIPRESSURE BOILER INSTALLATION. OTTO H. HARTMANN, Kassel-Wilhelmshohe, Germany, assignor to Schmidt'sche Heissdampf-Gesellschaft mit beschrankter Haftung, Kassel-Wilhelmshohe, Germany. Filed June 5, 1928, Serial No. 283,054, and in Germany June 28, 1927. 7 Claims. (Cl. 122—37.)

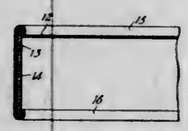
1. Method of initially heating up multipressure boiler installations having superheating devices for superheat-

ing the steam generated in the respective pressure sections of the boiler, which consists in leading steam generated in a high-pressure section of the boiler installation through



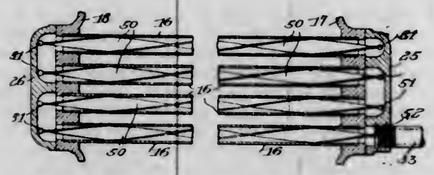
a superheater heated by the same furnace as the boiler itself and thence to the water space of a low-pressure section of the boiler installation.

1,783,843. SNARE DRUM. RALPH H. HIERS and HERBERT A. HIERS, Granville, Mass., assignors to Noble and Cooley Co., Granville, Mass., a Corporation of Massachusetts. Filed Apr. 2, 1929. Serial No. 351,946. 1 Claim. (Cl. 84—411.)



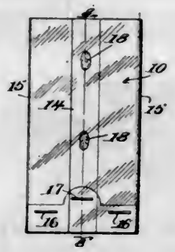
A device of the character described, including a ring having inwardly disposed edge portions, a diaphragm having side portions disposed against the inner face of said ring, snares underlying said diaphragm with their ends at the inner surfaces of the side portions of the diaphragm, means for securing said diaphragm and snares, said means including an annular member secured to said ring by said edge portions and securing said diaphragm and snares between itself and said ring.

1,783,844. HEAT-TRANSFER APPARATUS. JENS N. JACOBSEN, Alameda, Calif., assignor to The Pfaudler Co., Rochester, N. Y., a Corporation of New York. Filed Mar. 13, 1928. Serial No. 261,348. 4 Claims. (Cl. 257—240.)



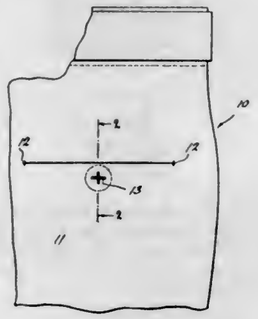
1. In a cooling apparatus, the combination with a container for holding a treating medium, of a plurality of conduits within said container, said conduits providing a passageway for an ice cream mixture, a unidirectional spiral strip rotatably mounted within each of said conduits and in contact with the side walls thereof, and means for preventing longitudinal movement of said strips while allowing rotation thereof, so that passage of said ice cream mixture through said conduits will rotate said spiral strips and scrape the walls of said conduits to prevent accumulation of frozen material thereon.

1,783,845. METHOD OF MAKING BAGS. HERMAN B. LAYMON, Spencer, Ind. Filed Jan. 10, 1930. Serial No. 419,918. 1 Claim. (Cl. 93—35.)



The herein described method of making display bags consisting of placing a strip of relatively stiff material upon a sheet of flexible transparent material, folding said sheet over the ends of the strip with the edges of the sheet overlapped, creasing the sheet to provide a flat tubular body, stitching the material of the body to the strip so that the latter will form an end closure, and gluing the overlapped edges of the sheet.

1,783,846. PICKPOCKETPROOF BUTTON. AZA LEROUX, New York, N. Y. Filed Aug. 20, 1930. Serial No. 476,669. 3 Claims. (Cl. 116—84.)

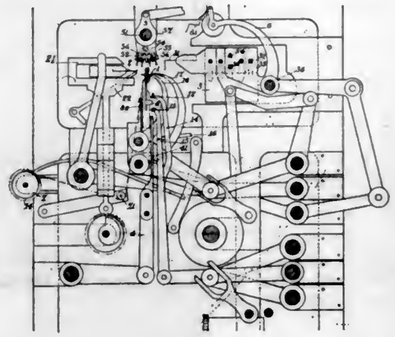


1. The combination with a hole-equipped pocket of a garment, of a device for the purpose described, comprising a base or attaching member provided with means for securing it to the interior of a pocket, supporting pins extending from said member, a bell or sound member secured to said pins and distanced from said base member, a resilient bell actuating member in operative engagement with said bell and comprising a resilient bar or knocker operative within the bell and a pocket hole engaging handle extending beyond the bell, a spring connecting said actuating member with one of said pins and adapted to normally cause the positioning of said actuating member into one plane, while the latter may be swung, by means of said handle, into another plane when desired, said pins serving as limiting devices for the resilient bar or knocker.

1,783,847. FASHIONED WARP KNITTING. PIERRE LÉVY, Nancy, France, assignor to The Société P. & P. Levy dite Etablissements J et S Levy Frères, Meurthe-et-Moselle, France, a French Company. Filed June 22, 1928, Serial No. 287,513, and in Germany June 30, 1927. 9 Claims. (Cl. 66—86.)

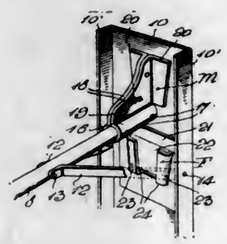
1. Method of producing a fashioned warp knitted fabric consisting, at the moment of transfer, of taking the thread

to be transferred from the needle on which it is found, carrying said thread to the interior of the knitted fabric on an active needle, knitting this thread together with



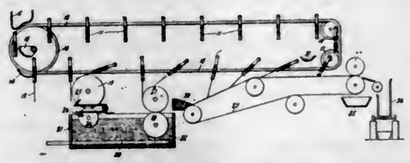
the thread found normally on said latter needle, carrying said transfer thread to the exterior and throwing the first needle out of operation.

1,783,848. HAMMOCK OR GLIDER SUPPORTING FRAME. DUANE M. LILLIBRIDGE, St. Charles, Ill. Filed Mar. 11, 1929. Serial No. 346,188. 4 Claims. (Cl. 5—127.)



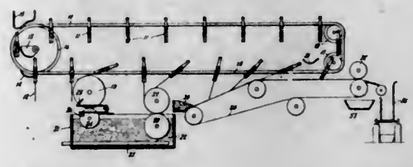
1. In a hammock frame, an end frame embodying a vertical channel bar, the side flanges of said channel bar being disposed at the inner side of the frame, a horizontal tie bar to extend between said end frame and a twin thereof, separable connecting means between said tie bar and said channel bar and confined between said inwardly directed flanges of the latter, and diverging links pivoted to said bar at their inner ends and pivoted to said flanges at their outer ends.

1,783,849. METHOD OF FINISHING ROOFING UNITS. CHESTER R. MACDONALD, Rutherford, N. J., assignor, by mesne assignments, to The Patent and Licensing Corporation, Boston, Mass., a Corporation of Massachusetts. Original application filed Mar. 13, 1926, Serial No. 94,377. Divided and this application filed Oct. 24, 1927. Serial No. 228,131. 8 Claims. (Cl. 91—68.)



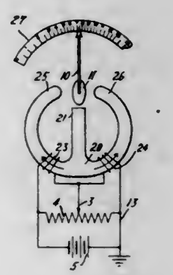
6. The method of treating roofing units which comprises advancing a series of roofing units in succession, presenting a film of liquid coating material to the successive units and causing the units to swingingly engage the film of coating material whereby to transfer the film to the face and edge portions of said units as they are advanced.

1,783,850. APPARATUS FOR FINISHING ROOFING UNITS. CHESTER R. MACDONALD, Rutherford, N. J., assignor, by mesne assignments, to The Patent and Licensing Corporation, Boston, Mass., a Corporation of Massachusetts. Original application filed Mar. 13, 1926, Serial No. 94,377. Divided and this application filed Oct. 24, 1927. Serial No. 228,132. 5 Claims. (Cl. 91—50.)



2. Apparatus of the class described, comprising means for suspending roofing units separately and serially with their butt edges down, means for advancing the units thus suspended, a coating roll supported in the path of the units whereby its peripheral surface is engaged by the forward faces of the advancing units, and means for supplying the peripheral surface of the coating roll with a film of coating material.

1,783,851. ELECTRICAL INDICATING INSTRUMENT. WILLIAM C. MCCOY, Akron, Ohio, assignor to Moto Meter Gauge & Equipment Corporation, Long Island City, N. Y., a Corporation of Delaware. Filed July 23, 1923. Serial No. 653,104. 4 Claims. (Cl. 171—95.)

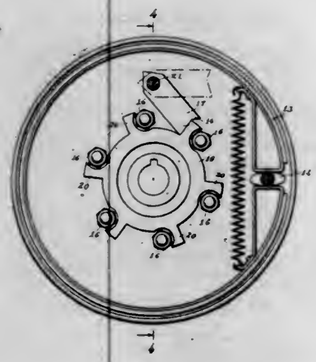


4. An electro-magnetic instrument comprising a normally unmagnetized core of magnetizable material having three distinct leg portions, means for differentially energizing the leg portions of said core to varying degrees, and a magnetically responsive armature pivotally mounted to swing about its geometric axis and actuated by the combined magnetic flux eminating from said leg portions to a multiplicity of stable indicating positions.

1,783,852. VEHICLE BRAKE. JOHN JOSEPH MCGUIRE, Yonkers, N. Y. Filed Dec. 26, 1928. Serial No. 328,528. 5 Claims. (Cl. 188—30.)

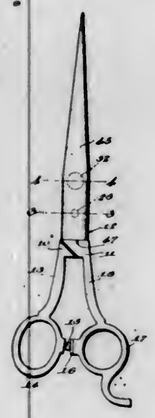
1. A device of the character described for association with a vehicle wheel, including a ratcheting member mounted upon the wheel, a pawl associated therewith, and means for controlling said pawl for operative and inoper-

ative position with respect to said ratcheting member, said ratcheting member including a wheel and projecting



extremities thereon, said projections being engageable with conventional securing means between said wheel and its associated brake drum.

1,783,853. SCISSORS. GEORGE MIRIELLO, Bronx, N. Y. Filed Jan. 29, 1929. Serial No. 335,839. 1 Claim. (Cl. 30—13.)



A pair of scissors comprising a pair of shanks, blades removably connected with the shanks, said blades having flanges embracing the shanks, set screws carried by the shanks and engaging the blades for clamping the flanges to the shanks, a pin secured to one shank and provided with a flange, the other shank having a recess to receive said flange, the last-mentioned flange being engaged at diametrically opposite points by the flanges of the blade which embraces the shank having the recess, plates provided with notches to receive the pin and having the edges thereof frictionally co-acting with the edge of the flanges in a blade.

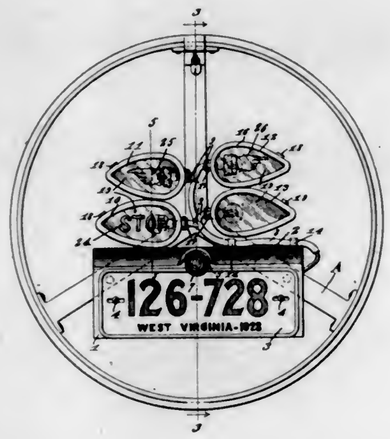
1,783,854. CLAMP LEVER FOR BUCKLES. WILLIAM J. MORSE, Attleboro, Mass. Filed Dec. 28, 1929. Serial No. 417,053. 7 Claims. (Cl. 29—3.)

1. The method of forming clamp levers from L-shaped bar stock having a base and a flange substantially perpendicular thereto, comprising the steps of cutting the bar stock in suitable lengths each having a base portion and a flange portion, shearing the ends of the flange por-



tion to form trunnion sections, shearing the base portion and the trunnion sections to provide a loop section and end trunnions, and punching the loop section to form a loop.

1,783,855. SIGNAL. FRANK P. RADCLIFFE, Fairmont, W. Va. Filed Dec. 21, 1928. Serial No. 327,650. 2 Claims. (Cl. 177—329.)



2. A direction signal for motor vehicles comprising an elongated supporting plate to support a license tag, a hood formed on the upper edge of the plate and having a centrally arranged curved portion, a tubular member having a horizontal portion secured to the upper portion of said hood and extending toward one end of the hood and laterally of the curved portion thereof, said tubular member bent to extend upwardly from the hood to provide a vertical supporting portion and curved slightly back upon said horizontal portion and having its free end spaced a considerable distance from the hood, pairs of oppositely disposed branch members formed on the vertical supporting portion of the tubular member, casings secured to the ends of the branch members, electric lamps in the casings, said casings arranged in oppositely disposed pairs and one pair arranged above the other pair, covers for the casings and having direction characters thereon to be illuminated by the electric lamps, one of the casings of the lower pair on the opposite side of the stem from the horizontal portion of the tubular member secured to the hood, and fasteners securing the casings of each pair together, said centrally arranged curved portion of the hood receiving a tail lamp.

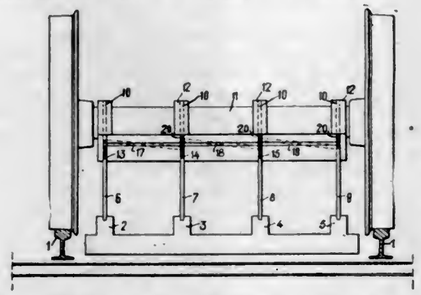
1,783,856. LIFTING DEVICE. GEORGE B. RANDOLPH, San Antonio, Tex. Filed Feb. 25, 1930. Serial No. 431,313. 4 Claims. (Cl. 244—18.)

1. A lifting device comprising, a vertically disposed tank having a restricted outlet at its upper end, a fluid compressor pump or pumps located at the lower end of the tank for compressing a fluid therein and discharging the compressed fluid therefrom, and a pair of oppositely



rotating fan elements disposed above the outlet and having their blades directed against the flow of fluid from the outlet.

1,783,857. APPARATUS FOR PREVENTING THE PASSING OF DANGER SIGNALS. FRIEDRICH KARL SCHMIDT, Speldorf, Muelheim-on-the-Ruhr, Germany. Filed Sept. 18, 1929, Serial No. 393,457, and in Germany Dec. 3, 1927. 3 Claims. (Cl. 246—174.)



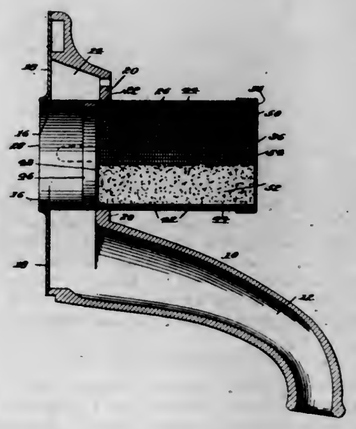
1. Apparatus for preventing the passing of danger signals by the operation by automatic control of a source of power effecting the actuation of a signalling or brake mechanism, the said control being effected by means of stops on the train operated by stops on the track, comprising a series of elastic rigidly mounted vehicle stops upon the train, co-operating track section stops staggered relatively one to the other to engage the vehicle stops in sequence, and locking mechanism provided for each vehicle stop except the first to render the said vehicle stops depending upon the actuation of the preceding stop, the last of said vehicle stops serving to effect the control of the source of power.

1,783,858. VALENCIENNES LACE. ALFONS L. SEIWERTS, Barmen-Langerfeld, Germany, assignor to the Firm A. Rohleder, Barmen, Germany. Filed Sept. 21, 1929, Serial No. 394,262, and in Germany Apr. 12, 1929. 3 Claims. (Cl. 96—24.)



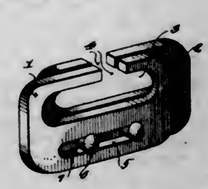
1. Imitation Valenciennes lace produced on a single-thread braiding machine in which the warp threads in the reticulated ground of the lace are intertwined with the bobbin threads to form therewith obliquely extending partial braids, and in which the warp threads in the pattern of the lace are arranged as longitudinally extending stem threads between the bobbin threads which are braided in a simple plait.

1,783,859. DISINFECTING ATTACHMENT FOR VACUUM CLEANERS. BERNARD P. SMITH, Rahway, N. J., assignor to The Regina Corporation, Rahway, N. J. Filed Jan. 19, 1929. Serial No. 333,736. 9 Claims. (Cl. 167—3.)



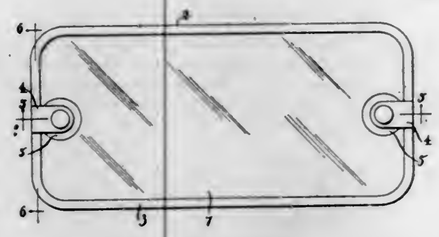
5. In combination with a vacuum cleaner having a casing provided with an attachment opening and an intake nozzle communicating with suction means, a container adapted to contain disinfectant material and having an intake opening and an end opening for discharge, said discharge end being adapted to be inserted in the said attachment opening, means associated with a wall of the container and the attachment opening for fixing the position of the container when inserted in the attachment opening, and means for substantially closing the line of communication between the intake nozzle and the suction means, said closure means acting to close said line of communication when the container is inserted in the attachment opening.

1,783,860. LAP LINK. RICHARD L. STOCKARD, Forrest City, Ark. Filed June 21, 1928. Serial No. 287,285. 2 Claims. (Cl. 59—87.)



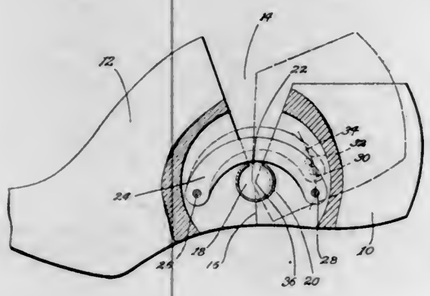
1. As an article of manufacture, a pair of similarly constructed link members, each member being elongated and consisting of parallel sides and ends, one side having an opening, the other side being considerably and uniformly broadened throughout its entire length, thus giving strength to the ends, the broadened side of one link member having a slot therein, and headed pins extending through said slot and being carried by the broadened side of the remaining link member, thus slidably connecting said members together, as and for the purposes set forth.

1,783,861. ANTIFROST DEVICE. EDWARD A. THIEM, Minneapolis, Minn. Filed Oct. 10, 1929. Serial No. 398,651. 3 Claims. (Cl. 20—40.5.)



1. A windshield anti-frost device, consisting of a frame comprising two strips of angular metal with their free ends bent at substantially right angles with the body of the strips, bracket portions separately connected to and supporting adjacent ends of said metal strips to form a frame end, a transparent sheet secured inside the flange of said frame, a sealing strip secured around the edge of the transparent sheet inside the flange of the frame, and vacuum cups supported by said brackets in a position spaced from the ends of the frame and said sealing strip.

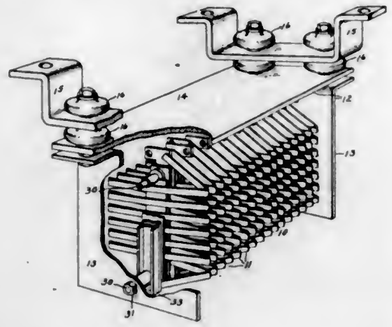
1,783,862. HINGED LAST. GEORGE C. THOMAS, Swampscott, Mass., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me., a Corporation of Maine. Filed Oct. 25, 1922, Serial No. 596,867. Renewed Oct. 9, 1930. 4 Claims. (Cl. 12—136.)



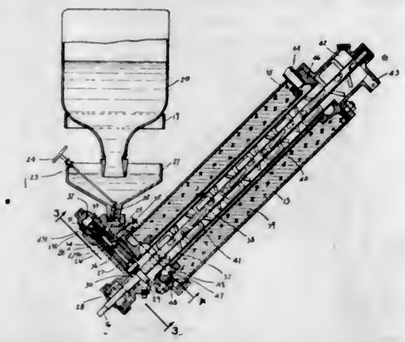
1. A last comprising a forepart, a heel part, a single resilient abutment pin in the joint between the last parts and extending across the last and an inextensible link with its ends pivoted to the last parts and extending over the pin in an arch, the line joining the ends of the link lying below the center of the abutment pin, the said pin being deformable under pressure to effect a resiliently resistant initial collapsing movement.

1,783,863. ELECTRICAL RESISTOR. JOHN F. TRITLE, Erie, Pa., assignor to General Electric Company, a Corporation of New York. Filed June 15, 1928. Serial No. 285,728. 3 Claims. (Cl. 201—74.)

1. A resistor assembly comprising a plurality of resistance units, each unit comprising a flattened helix of metal ribbon wound flatwise, an insulating support disposed within said helix and in contact with a relatively small area of the inner surface of said ribbon, insulated metallic spacers between adjacent units to which terminals of the units are connected, and means for clamping said helixes, supports, and spacers together to form a rigid assembly.

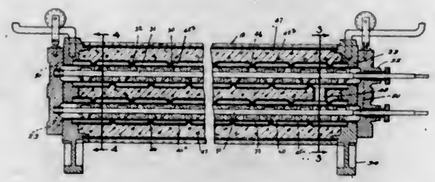


1,783,864. APPARATUS AND PROCESS FOR TREATING MATERIALS. CLARENCE W. VOGT, Louisville, Ky., assignor to Vogt Instant Freezers, Inc., Louisville, Ky., a Corporation of Delaware. Filed Nov. 1, 1928. Serial No. 316,567. 53 Claims. (Cl. 61—114.)



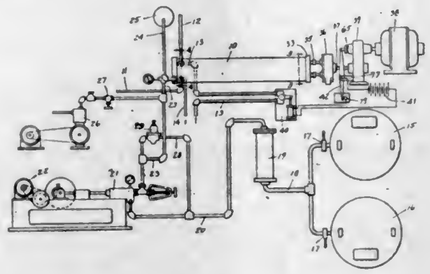
21. The method of refrigerating a material to effect rapid crystallization of at least a portion thereof which includes causing the material to flow in a comparatively thin confined layer over a heat transfer surface, subjecting said surface to the action of a refrigerating medium and rapidly and mechanically agitating the material during such flow.

1,783,865. MACHINE FOR PROCESSING MATERIALS. CLARENCE W. VOGT, Louisville, Ky., assignor to Vogt Instant Freezers, Inc., a Corporation of Delaware. Filed Mar. 17, 1928. Serial No. 262,339. 11 Claims. (Cl. 257—63.)



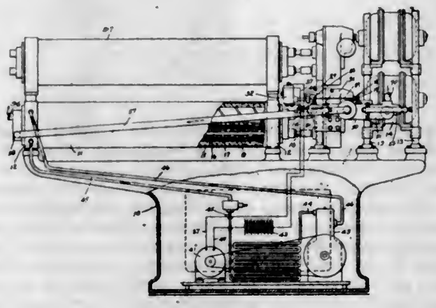
1. A machine for processing materials, comprising a member having a plurality of individual tubular processing chambers positioned therein and extending parallel with each other through which the material is adapted to be continuously passed, means for forcing the material therethrough under pressure, means for controlling the temperature of said individual processing chambers, said chambers communicating with each other in series for causing the material to pass through each of said chambers during the processing thereof, rotatable whipping blades mounted in each of said chambers for whipping and agitating the material as its temperature is varied in passing therethrough, and a single drive for rotating said blades.

1,783,866. PROCESS AND APPARATUS FOR TREATING MATERIALS. CLARENCE W. VOGT, Louisville, Ky., assignor to Vogt Instant Freezers, Inc., Louisville, Ky., a Corporation. Original application filed Mar. 17, 1928, Serial No. 262,339. Divided and this application filed Dec. 31, 1928. Serial No. 329,596. 29 Claims. (Cl. 257—101.)



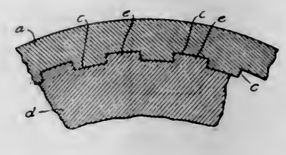
5. A machine for continuously processing materials, comprising a processing chamber, means for continuously passing material to be processed therethrough, an agitating and processing member rotatably mounted in said chamber, a pipe line for supplying a temperature-changing medium to said chamber, a valve in said pipe line, an electrically operable control for said valve, driving means for said member, and a mechanism connected between said driving means and processing member adapted to be actuated by the torque imparted to said processing member by the resistance of said material for actuating said control, whereby the passage of said medium to the chamber will be varied in accordance with the resistance of the material.

1,783,867. MACHINE FOR PROCESSING MATERIALS. CLARENCE W. VOGT, Louisville, Ky., assignor to Vogt Instant Freezers, Inc., a Corporation of Delaware. Filed June 11, 1928. Serial No. 284,458. 25 Claims. (Cl 62—114.)



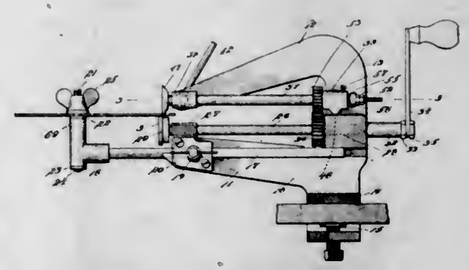
1. A machine for processing materials, including a processing chamber, means for positively forcing the material to be processed therethrough, a by-pass for relieving said means of excess material, a valve in said by-pass, agitating means in said chamber, and means controlled by the resistance to the agitation of the material in the chamber due to its plasticity for controlling said valve.

1,783,868. PAPER MANUFACTURE. MAX WENZEL, MULDENSTEIN, near Bitterfeld, Germany. Filed Oct. 17, 1929, Serial No. 400,268. and in Germany Sept. 6, 1928. 5 Claims. (Cl. 92—47.)



1. The press roller adapted for use in paper manufacture which comprises a roll, projections on the surface of said roll, a bandage covering the surface of said roll, and preformed indentations in said bandage adapted to receive said projections.

1,783,869. GASKET-CUTTING MACHINE. JOHN L. ALLEN, New Bedford, Mass. Filed July 3, 1929. Serial No. 375,735. 3 Claims. (Cl. 164—63.)

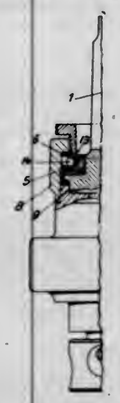


1. In a cutting machine, a U-shaped frame having two legs and a base, a shaft rotatably mounted in fixed bearings and extending along one leg, a cutter element on the end thereof, a second rotatable shaft extending along the other leg, a second cutter element on one end of said second shaft in operative contiguity to said first cutter element, a bearing for the other end of said second shaft pivotally mounted in said frame, a movable bearing for the cutter end of said shaft, an eccentric rotatably mounted at the end of said other leg, means operatively connecting said eccentric to said movable bearing, means for rotating said eccentric to move said bearing and swing said second shaft on its pivotally mounted bearing, whereby said second cutter element is movable with respect to said first cutter element, means for rotating said shafts, and means for adjusting one of said shafts axially.

1,783,870. CHUCK FOR TORSIONAL STRESSES. FRIEDRICH ANTON AUGENTHALER. Berlin, Germany. Filed Oct. 16, 1928, Serial No. 312,883, and in Germany Dec. 1, 1927. 5 Claims. (Cl. 279—1.)

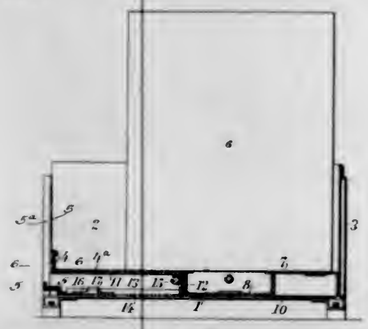
1. A casing, two rotatable parts held in operative relation and in axial alignment by said casing, and frictional means interposed between said rotatable parts, in combination with bearing balls, a ball race arranged in said casing concentric with the axes of said rotatable parts and hav-

ing an annular conical surface engaged by said balls, and an adjusting member having an annular conical surface concentric with said ball race and engaging said balls, the



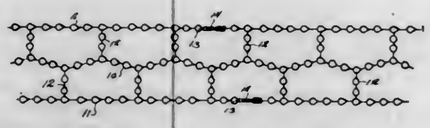
conical faces of said adjusting member and of said ball race extending at different angles with relation to their common axis.

1,783,871. POSTING TRAY. PHILIP BERGMANN, Philadelphia, Pa., assignor to Columbia Steel Equipment Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 26, 1927. Serial No. 228,849. 3 Claims. (Cl. 129—16.)



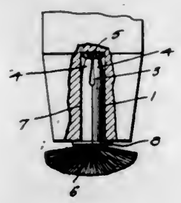
1. In combination with a posting tray having ends, and a bottom so formed as to provide a longitudinal pocket beneath a portion of the posting tray and said ends, a removable side for the posting tray adapted to be transferred from a vertical position to a substantially horizontal position in the said pocket, and means on said removable side adjacent the upper longitudinal extremities thereof, for locking it in its vertical position to said ends.

1,783,872. TIRE CHAIN. JESSE LEE DOSS, Evanston, Wyo., assignor of forty-eight per cent to G. A. De Freece, Midwest, Wyo. Filed July 30, 1929. Serial No. 382,172. 1 Claim. (Cl. 152—14.)



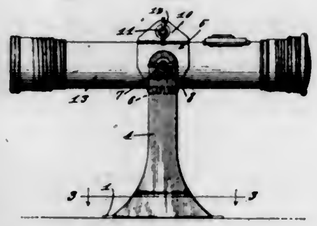
A tire chain comprising an endless tread chain adapted to be loosely positioned on the tread of the tire, a pair of split side chains, a plurality of cross chains secured to said side chains and terminating at said endless chain, said cross chains being disposed in staggered relation to each other, and tensioning means carried by one end of each of said side chains and engageable in selected links in the opposite end of each side chain whereby to tighten the side chains, said cross chains upon tightening of the side chains being adapted to dispose the endless chain in staggered relation across the tread of the tire.

1,783,873. FURNITURE CASTER. THOMAS P. DUNCAN, Jr., Newport News, Va. Filed June 21, 1928. Serial No. 287,218. 1 Claim. (Cl. 45—137.)



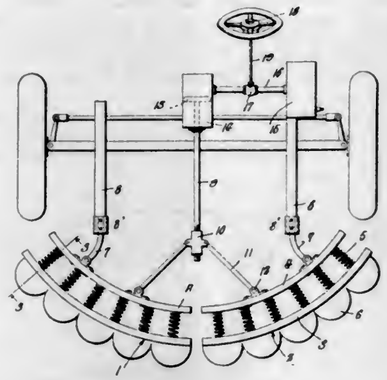
A furniture caster comprising a metal cylinder having oppositely disposed longitudinal slits formed in one end thereof, said slitted end of the cylinder being adapted for extension into a bore in the leg of an article of furniture, a flange formed about the other end of the cylinder for engagement against the furniture leg, and a twisted body of fibrous material extending through said cylinder and projecting slightly beyond the slitted end, those portions of the cylinder formed by slitting the same being compressed to grip the body therein, the other end of said fibrous body being frayed and tufted to form a supporting dome, that end of the body adjacent the slits of the cylinder being adapted to be wedged between the adjacent cylinder end and the inner wall of a bore in which the cylinder is positioned.

1,783,874. SAFETY HOLDING DEVICE FOR FLASH LIGHTS. HARRY R. DRYDEN, Pittsburgh, Pa. Filed Dec. 4, 1929. Serial No. 411,652. 1 Claim. (Cl. 240—52.)



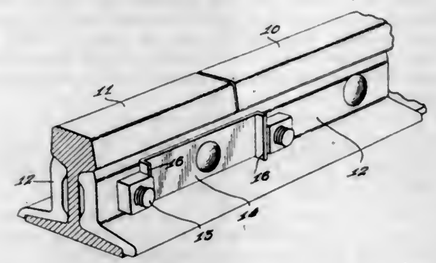
A holder for flashlights, comprising a metal member provided with a substantially rectangular base, spring sides arising from two of the opposite edges of the base and gradually decreasing in thickness from the juncture of the base to the outer end, a ring clamp comprising two hingedly connected sections having threaded studs extending therefrom and received through openings in the sides of the base and designed to be engaged by wing nuts, the said sides of the base exerting an outward pressure with respect to each other, outwardly projecting ears on the ring clamp sections, a threaded stud carried by one of said ears passing through the other ear and engaged by a wing nut.

1,783,875. BUMPER. LOUIS FERDINAND, Drifton, Pa. Filed Apr. 21, 1930. Serial No. 446,055. 3 Claims. (Cl. 293—55.)



1. A bumper for a vehicle comprising a pair of sections arranged in a horizontal plane, means for pivotally connecting the outer end of each section to a front part of a vehicle and means connected with the inner ends of the members for moving said members forwardly and outwardly.

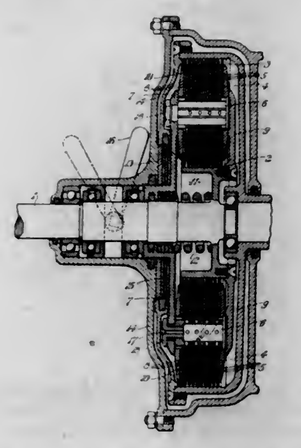
1,783,876. RAIL NUT LOCK. JAMES O. GOULD, Summerville, Pa. Filed July 17, 1929. Serial No. 379,001. 3 Claims. (Cl. 238—262.)



1. A nut lock comprising an elongated plate having an eccentrically located bolt receiving opening, a bolt passed through the opening and accommodating a nut, said plate having a slot opening to the opposite end and to one side of the longitudinal center thereof, the wider portion being reversely bent upon the plate to dispose the extremity thereof in abutting engagement with the immediate portion of the nut, and the narrower portion being projected outwardly in alignment with the the plane of the plate and in opposed relation to that of the wider portion.

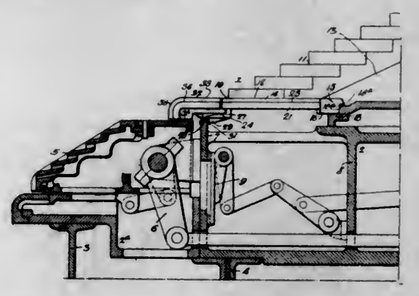
1,783,877. VARIABLE-SPEED AND REVERSING EPICYCLIC GEAR. NICOLAI GRIBOJEDOFF, Teddington, England. Filed Sept. 7, 1929. Serial No. 391,032, and in France Oct. 1, 1928. 2 Claims. (Cl. 74—34.)

1. An epicyclic variable speed and reversing gear comprising a driving shaft, a driving pinion mounted on said shaft and having a plate extending from its periphery, a driven internally toothed crown wheel coaxial with and enclosing said pinion, a planet wheel carrier rotatable on and slidable longitudinally of said shaft, a plurality of planet wheels mounted on said carrier between the latter and said plate and meshing with said pinion and crown wheel, each of said planet wheels comprising a plurality of interleaved friction disks and peripherally toothed discs held against rotation when clamped together between said carrier plate and friction braking means mounted for cooperation with said carrier, the movement



of the carrier longitudinally of said shaft controlling clamping and releasing of said friction disks and engagement and disengagement of the carrier with said friction brake means.

1,783,878. GRATE CONSTRUCTION. CLIFFORD E. HARRISON, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 3, 1925. Serial No. 34,626. 1 Claim. (Cl. 110—33.)

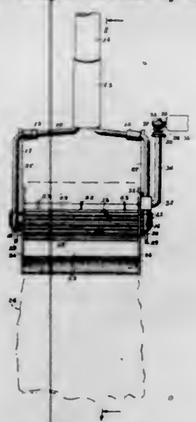


A plate extension for stoker grates comprising longitudinally detachable front and rear sections, the front section having a recess and the rear section an opening in alignment with the recess, a locking pin projecting through the opening and into the recess and preventing longitudinal separation of said sections, and vertically interlocking means on said sections located in spaced relation longitudinally of the sections and respectively at opposite sides of said pin.

1,783,879. MOP WRINGER AND HOLDER. DUNCAN KENNER, New Orleans, La., by court order, Mrs. Emma Tujague Kenner sole heir and legatee of Duncan Kenner deceased. Filed May 28, 1929. Serial No. 366,640. 3 Claims. (Cl. 15—119.)

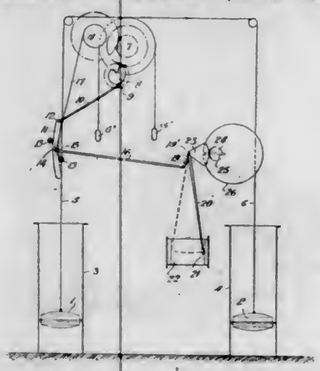
1. A mop wringer and holder comprising the combination of yoke members having a handle, cooperable wringing rollers mounted for rotation on said yoke members respectively, side guard plates, means carried by the yoke members which support said guard plates respectively adjacent the ends of said rollers, the edge of each

guard plate projecting beyond the peripheral surfaces of both rollers, and scrapers carried by said guard plates,



said scrapers extending parallel to and adjacent said rollers to receive therebetween a mop pad to remove foreign matter therefrom during the wringing operation.

1,783,880. APPARATUS FOR MEASURING THE FLOW OF LIQUIDS. WALTER GEORGE KENT, Luton, and EDWARD WILLIAM HOVENDEN, deceased, Luton, England, by Jack Reginald Hovenden, London, England, and Alice Harriet Hovenden, Bedford, England, executors, assignors to Builders Iron Foundry, Providence, R. I. Filed Apr. 12, 1930, Serial No. 443,858, and in Great Britain Nov. 3, 1928. 2 Claims. (Cl. 73—167.)



1. In an apparatus for measuring the flow of liquid an open channel, the combination of restrictive means for creating a pressure difference at spaced points along the open channel when there is flow, the apparatus utilizing the formula

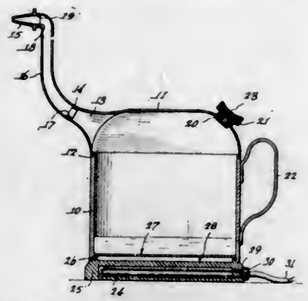
$$H_2\sqrt{H_1-H_2}$$

where H_1 and H_2 indicate the different liquid levels created by the aforementioned restrictive means; float chambers in fluid communication with the channel at the points of pressure difference above mentioned; a float in each chamber; a differential device; means operatively connecting said differential device with each float; a square-root cam in operative engagement with the differential device; an actuating arm; means operatively connecting the square-root cam and the actuating arm, whereby the factor

$$\sqrt{H_1-H_2}$$

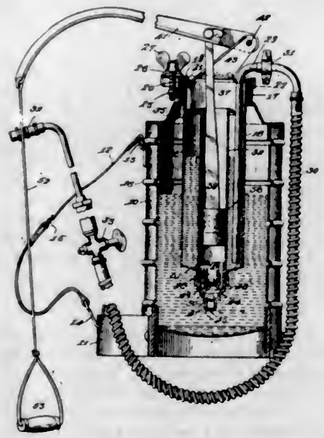
is applied to the actuating arm; means responsive to the liquid level in one of the float chambers and directly connected to the actuating arm, thereby applying the factor H_2 to that arm; recording mechanism, and means controlling said recording mechanism from said actuating arm.

1,783,881. PERMANENT-WAVE BEAUTIFIER. JOHN KOERNER, Brooklyn, N. Y. Filed Nov. 2, 1929. Serial No. 404,347. 3 Claims. (Cl. 219—44.)



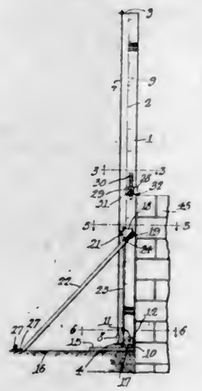
1. A permanent wave beautifier including a hollow receptacle having a handle at one of its sides, an outlet member at the opposite side, the upper portion of said receptacle having a filling opening adjacent to said handle, a screw threaded cap for said filling opening, whereby said handle is graspable by the fingers of one hand of the user while the thumb rests upon said filling opening cap, a nozzle member, an elongated tubular member having its opposite ends screw threadedly engageable with said nozzle member and said outlet member, respectively, a base secured at the lower part of said receptacle, said base including an electric heating element, said base having upstanding portions and said receptacle having downturned portions cooperative with the latter to form a heating chamber below said receptacle and above said heating element, and electrical connections for said heating element.

1,783,882. HAND-PUMP SPRAYER. MAX A. KOHN, Harrisburg, Pa. Filed Sept. 10, 1928. Serial No. 305,054. 1 Claim. (Cl. 299—97.)



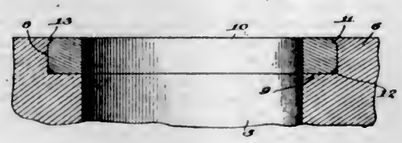
In a spraying apparatus, a main liquid containing tank, a pressure tank located centrally therein, and having a flange at its upper end reposing upon the upper edge of said tank, a cap closing both of said tanks and having a horizontally disposed slot opening at one edge thereof, a horizontal partition arranged within the pressure tank adjacent the top thereof, a cylinder located within the pressure tank, a flange on the upper end of said cylinder and supported by said partition, a supply pipe having its inner end located within the pressure tank adjacent the bottom thereof, said pipe being extended through the top of said tank and received by the slot of said cap, a piston operating within the cylinder, check valve controlled ports providing communication between the main tank and the pump cylinder, and between the pump cylinder and the pressure tank, a piston rod projecting through said cap, and means connected with the piston rod for operating the piston with the apparatus supported on the back of the user.

1,783,883. PLUMBING DEVICE. LEWIS K. LARRISON, Wharton, N. J. Filed Nov. 12, 1927. Serial No. 232,894. 2 Claims. (Cl. 33—85.)



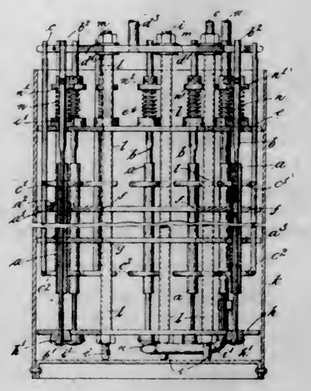
1. In a device of the class described, a substantially vertical post, a plumbing device carried by the post, a foot, means for connecting the lower end of the post pivotally with the foot, a rider adjustable on the post longitudinally thereof, means for holding the rider in adjusted positions longitudinally of the post, braces inclined with respect to the post, means for connecting the upper ends of the braces adjustably with the rider to permit plumbing of the post, and means anchoring the lower ends of the braces.

1,783,884. VALVE-SEAT LINER. CLIFFORD C. LEE, Aberdeen, S. Dak., assignor to K. O. Lee & Son Co., Aberdeen, S. Dak., a Corporation of South Dakota. Filed Sept. 18, 1929. Serial No. 393,504. 4 Claims. (Cl. 251—167.)



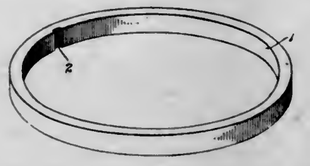
1. A cylinder block construction having a vertical passage opening through the top of the block, said block being provided with a bored recess adjacent the opening in said block, said recess having a vertical cylindrical wall, a liner fitted within said recess and of greater external diameter than the diameter of said recess whereby said liner will be frictionally held within said recess, said liner being provided at its outer edge with an annular bevelled surface, and means on the outer edge of the wall of said recess being adapted to retain said liner in position.

1,783,885. APPARATUS FOR ELECTROLYTICALLY DEPOSITING METAL ON METAL TUBES. FRANCIS GRIMSHAW MARTIN and WILLIAM RAMSEY, Birkenhead, England, assignors to J. Stone & Company Limited, Deptford, England. Filed Sept. 29, 1927, Serial No. 222,829, and in Great Britain Apr. 22, 1927. 14 Claims. (Cl. 204—5.)



7. In electrolytic apparatus for carrying out processes of the kind referred to, the combination of a tank, a cathode frame comprising end rings and a series of intermediate perforated rings, gripping devices associated with said intermediate rings adapted for frictionally engaging tubes inserted into the perforations of said intermediate rings, flexible anodes arranged between the top and bottom rings and within said tubes, abutments on said anodes, compression springs between an end ring and said abutments, a terminal device connected with said anodes, insulated conductors suspended from said terminal device, anodes supported by said conductors and adapted to surround the ends of the tubes, and an electric terminal for said cathode frame.

1,783,886. PISTON-RING CASTING. THURLOW E. MCFALL, Sparta, Mich. Filed Feb. 17, 1930. Serial No. 429,001. 8 Claims. (Cl. 29—156.62.)

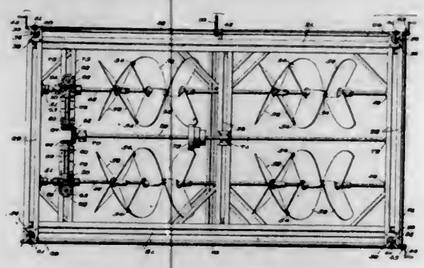


2. A piston ring casting adapted to be split substantially midway between its opposed flat sides to make two ring castings, and a marking means on said ring casting at each side of a central plane located substantially midway between the opposite flat sides of the ring casting, whereby when the ring casting is split into two parts each part thereof will carry a marking indication, for the purposes described.

1,783,887. HYDRAULIC POWER DEVICE. WILLIAM R. MORRIS, Fairfield, Idaho, assignor of one-half to Robert Henry Morris and one-half to Raymond Guy Morris, Boise, Idaho. Filed Mar. 7, 1928. Serial No. 259,886. 10 Claims. (Cl. 170—150.)

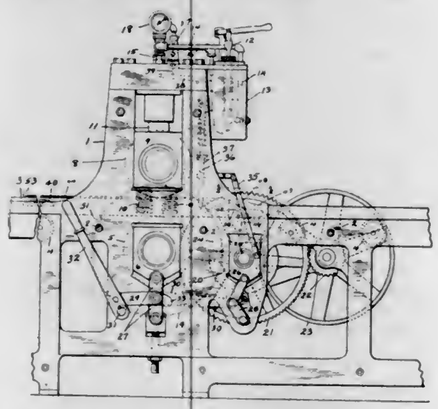
1. In a device of the class described, an impeller, comprising a shaft, a plurality of vanes arranged in sets,

with the vanes of each set disposed in spaced and reversed angular relation one with respect to the other



along said shaft, certain of the vanes of each set having portions of their peripheral edges abutting, and means for securing the abutted edge portions together.

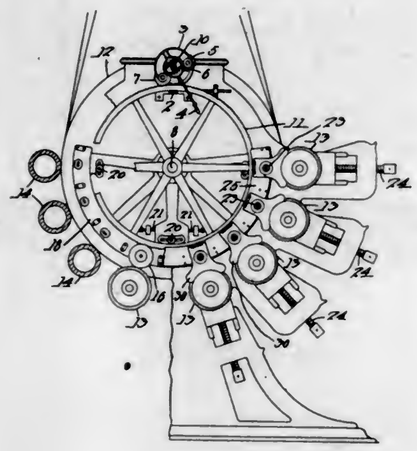
1,783,888. TRANSFER PRESS. FRANK T. SHEEDY, HUGH C. WOOD, and LOUIS TRAUNG, San Francisco, Calif., assignors, by direct and mesne assignments, to The Traung Company, San Francisco, Calif., a Copartnership consisting of Louis Traung, Charles F. Traung, L. H. Jackson, H. W. Johnston, Frank T. Sheedy, and H. T. Gardner. Filed Mar. 10, 1930. Serial No. 434,516. 12 Claims. (Cl. 101—33.)



1. A transfer press comprising a frame, a flat bed reciprocable on said frame, a pressure roll extending across the upper face of said bed, a layer of tough resilient rubber on said roll, means for forcing said roll toward said bed, a supporting roll under said bed and under said pressure roll, means for lowering said supporting roll out of contact with said bed, a reversing roller under said bed and means for elevating the reversing roller to contact said bed, the means for lowering the supporting roll and elevating the roller comprising vertically movable bearings for the roll and roller, toggle levers supported from the frame of the press arranged for moving the bearings up and down, and operating linkage connecting the toggle levers.

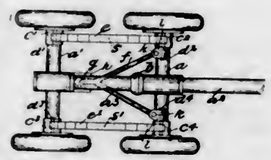
1,783,889. GEARING FOR TEXTILE-PRINTING MACHINES. HERMAN A. SMITH and GEORGE H. THOMSON, Worcester, and STEPHEN B. STAFFORD, Oxford, Mass., assignors to Rice, Barton & Fales, Incorporated, Worcester, Mass., a Corporation of Massachusetts. Filed Oct. 12, 1929. Serial No. 399,266. 9 Claims. (Cl. 101—178.)

1. In a color printing machine, the combination with a main cylinder and a series of color rollers mounted to contact therewith, of an intermediate gear centered on the same axis as the cylinder, means for driving said gear,



a series of pinions for driving the color rollers from the intermediate gear, all adjustable as a whole circumferentially, and means for preventing their adjustment radially.

1,783,890. SELF-PROPELLED ROAD VEHICLE. ERNEST THOMAS JAMES TAPP, London, England. Filed Jan. 29, 1930, Serial No. 424,401, and in Great Britain Nov. 5, 1928. 2 Claims. (Cl. 180—22.)

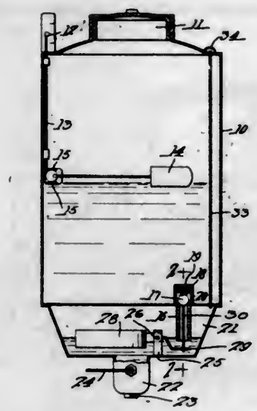


1. In a road vehicle, a pair of rear axles, springs secured to said axles, pins securing said springs to one of said axles and having a portion extended to project from one side of said springs and in parallel relation to said mentioned axle, a rigid triangular member arranged between the axles, means having bearing upon the extended portion of said pins and hingedly connecting the base of said triangular member to said pins, and a longitudinally slidable joint pivotally connecting the apex of said triangular member to the remaining axle, whereby transverse movement of one of said axles is transmitted through the triangular member to the other axle.

1,783,891. FEED TANK. NAPOLEON R. THIBERT, Worcester, Mass. Filed Mar. 4, 1930. Serial No. 433,164. 3 Claims. (Cl. 137—21.)

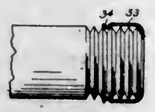
1. The combination with a storage tank adapted to be hermetically sealed and having a port in the bottom, a valve closing said port, and a pipe extending downwardly from said port, of a distributing tank into which said pipe extends, a float in the distributing tank, and means connected with said float for operating the valve, whereby

when the float descends the valve will open and when the level of liquid in the distributing tank descends low



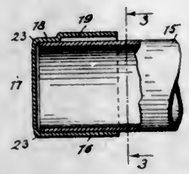
enough to bring the float down to open the valve, the lower end of said pipe will be unsealed and air will be admitted into the storage tank.

1,783,892. THREAD PROTECTOR. HERMAN A. UNKE, Cleveland, Ohio. Filed Apr. 19, 1928. Serial No. 271,187. 5 Claims. (Cl. 137—91.)



1. In combination with a threaded element, a thread protector comprising a metal sleeve having at one end thereof an end wall portion engaging the end of the threaded element, and at its other end said sleeve having a non-circular inturned annular bead engaging the threads of said element at spaced points only.

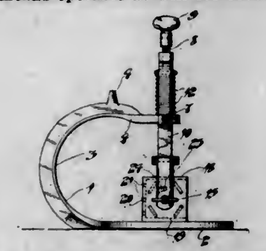
1,783,893. PIPE-END PROTECTOR. HERMAN A. UNKE, Cleveland, Ohio. Filed Nov. 23, 1928. Serial No. 321,319. 5 Claims. (Cl. 137—91.)



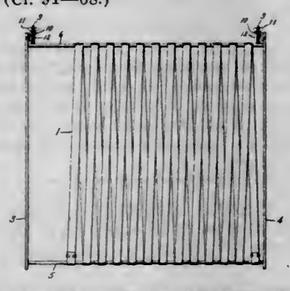
1. A pipe end protector comprising a metallic cap having a cylindrical skirt portion adapted to form a drive fit with the end portion of a pipe and having a resilient sleeve extension formed with spaced outwardly bulging lobes and adapted to frictionally engage the wall of said pipe at points intermediate said lobes.

1,783,894. VULCANIZING APPLIANCE. JAMES DOUGLAS VOSS, Oakleigh, near Melbourne, Victoria, Australia. Filed July 12, 1928, Serial No. 292,287, and in Australia Mar. 19, 1928. 7 Claims. (Cl. 18—18.)

4. In a vulcanizing chamber a heating chamber provided with a plurality of heating surfaces adapted for operation in turn, the combination therewith of a sliding member under spring control adapted to carry the heated surface of the chamber into contact with the article to be vulcanized, means operable at will for reversing the heating surfaces, and a pivoted arm fitted with an adjusting screw adapted to maintain the spring controlled rod and consequently the heating chamber at pressure during the contact of the heating chamber with the article being vulcanized.

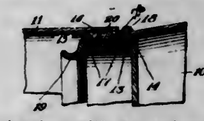


1,783,895. METHOD OF RESTORING SHRUNKEN FILMS. JAMES G. E. WRIGHT, Alplaus, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 28, 1929. Serial No. 374,595. 3 Claims. (Cl. 91—68.)



1. The process of restoring a shrunken celluloid photographic film substantially to its original length which comprises softening the emulsion on the film, soaking the film in a camphor solution to elongate it, and drying it while maintained in its elongated condition.

1,783,896. DRIP AND TRIM MOLDING. JOSEPH B. ZIMMERS, Chicago, Ill. Filed Apr. 20, 1925. Serial No. 24,650. 6 Claims. (Cl. 180—69.01.)

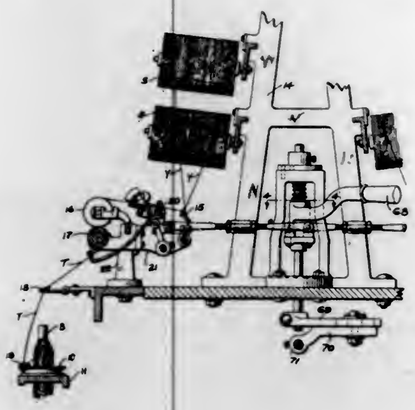


1. The combination with an automobile of a molding consisting of a channel strip with edges forming a restricted entrance opening, means spaced within the channel enclosure for attaching the molding to a body: one of the edges forming a bead, the other edge formed into a depending drip trough; a nonferrous removable insert having flange means for insertion in the channel and adapted to be held therein by the coaction of the said flanges with the inner walls of the channel.

1,783,897. YARN STOP MOTION FOR TWISTING MACHINES. CHARLES AVEYARD, Lowell, Mass., assignor to Whitin Machine Works, Whitinsville, Mass., a Corporation of Massachusetts. Filed Mar. 7, 1929. Serial No. 345,076. 8 Claims. (Cl. 117—33.)

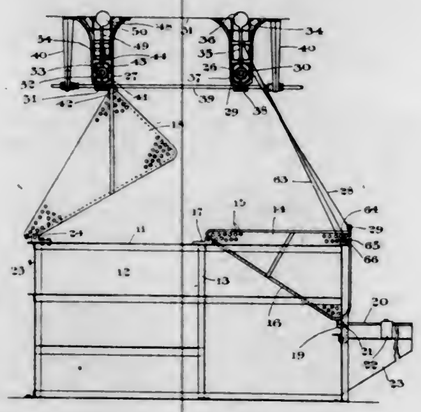
1. In a twisting machine, a member having spaced yarn clamping portions, a clamping bar, said member and bar

being mounted for relative movement toward and away from each other, and one thereof being provided with thread engaging means effective to hold said member and bar in spaced relation during the normal operation of



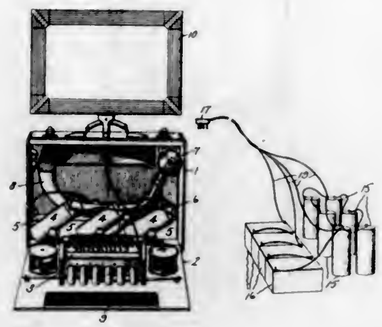
the machine, and means to move said bar between said spaced portions to clamp the yarn upon thread breakage, said clamping bar being wedge-shaped in cross section and having its lower edge portion of less width than the distance between the clamping portions of said member.

1,783,898. BRINING MACHINE. JAMES J. BARRY, Dartmouth, Nova Scotia, Canada. Filed Oct. 15, 1928. Serial No. 312,689. 8 Claims. (Cl. 99—2.)



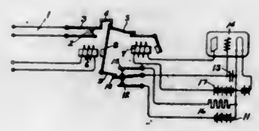
1. In a brining machine, a frame, a brining tank formed therein, a weighing scoop attached along one edge to the frame, a weighted balance lever secured to the frame and adapted to support the weighing scoop, a clutch controlled hoisting unit above the weighing scoop, means operated by the movement of the scoop, to control the clutch to raise or release the weighing scoop, a brining scoop in the brining tank adapted to receive material from the weighing scoop and a hoisting unit for the brining scoop.

1,783,899. RADIO RECEIVING APPARATUS. FRED C. BARTON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 22, 1925. Serial No. 45,392. 7 Claims. (Cl. 250—14.)



1. The combination, in a radio receiving set, of a receiving apparatus enclosed in a case of such dimensions that batteries for the operation of the set may be located inside of the case, a set of terminal members connected to batteries within the case, movable elements connected to the set and normally in engagement with said terminal members to connect the set with said batteries within the case, and means cooperating with said movable elements to connect batteries outside of the case with said set.

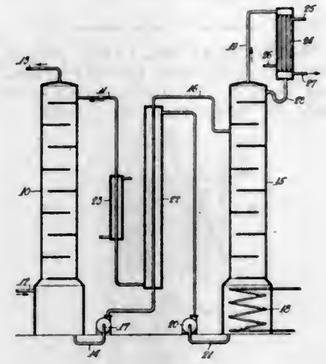
1,783,900. REMOTE-CONTROL SWITCHING SYSTEM. LESTER F. BIRD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 5, 1925. Serial No. 48,363. 16 Claims. (Cl. 175—375.)



1. The method of controlling the opening and closing of an electric circuit by means of a pair of relays arranged to be energized in response to received energy, which comprises energizing one of the relays to effect closing of the circuit and energizing both of the relays and producing a time interval between the operation thereof to effect opening of the circuit, said time interval being of such duration that said circuit is selectively opened and closed dependent upon the duration of said received energy.

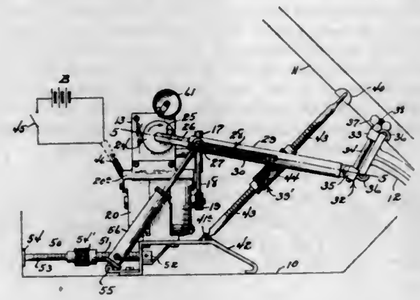
16. In combination, a relay comprising an armature having different circuit controlling positions, and a pair of electromagnets, one of said magnets being arranged to operate said armature to one of said positions and the other magnet being arranged to operate said armature to another position, means for energizing both of said magnets, and means for producing a time delay between operation thereof whereby upon energization of said magnets for a certain interval said armature is operated to one position and upon energization of said magnets for a longer interval said armature is operated to a different position.

1,783,901. PROCESS FOR SEPARATING ACIDIC GASES. ROBERT ROGER BOTTOMS, Louisville, Ky., assignor to The Girdler Corporation, Louisville, Ky., a Corporation of Delaware. Filed Oct. 7, 1930. Serial No. 486,918. 13 Claims. (Cl. 23—2.)



1. The process of separating an acidic gas from gaseous mixtures, which includes effecting intimate contact of a gaseous mixture with an absorbent agent in liquid form including an amine selected from the group consisting of aliphatic and cycloparaffin amines, and which is free from carboxyl or carbonyl groups, and which has a boiling point not substantially below 100° C.

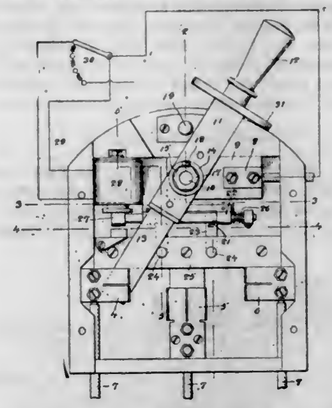
1,783,902. BRAKE ADJUSTER. HENRY BROST, Medford, Wis. Filed Apr. 12, 1929. Serial No. 354,681. 8 Claims. (Cl. 29—84.)



1. In a device of the character described, a stand adapted to be placed in an automobile, a crank arm mounted for rotation upon said stand, a pitman having one end operatively connected to the crank arm and its opposite end adapted for attachment to the foot pedal of the automobile, and means to operate the crank arm to force the pitman in one direction and to permit return movement of the pitman.

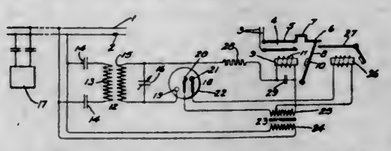
1,783,903. ELECTRIC SWITCH. IRA W. BURGESS, Minden, W. Va. Filed Nov. 8, 1929. Serial No. 405,707. 2 Claims. (Cl. 200—15.)

1. An electric switch comprising a casing having a slot in one end thereof, a number of terminals therein, a switch arm pivotally arranged in the casing and having one end extending through the slot therein, a handle on this end, a blade detachably connected with the other end and adapted to engage any of the terminals, a terminal elec-



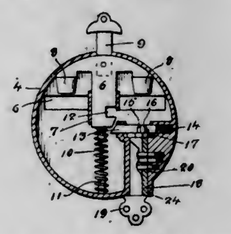
trically connected with the switch arm and magnetic locking means for locking the switch arm in engagement with any one of the first mentioned terminals.

1,783,904. SYSTEM OF DISTRIBUTION. EMMETT F. CARTER and HUGH E. ALLEN, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed July 22, 1925. Serial No. 45,393. 11 Claims. (Cl. 175—375.)



7. In combination, an electric circuit, means for controlling the closing of said electric circuit, said means including a control circuit containing a discharge device and a relay, a source of potential connected to said control circuit, the value of the potential being somewhat lower than that required to break down the discharge device and produce a flow of current in the control circuit, means for supplying to the control circuit high frequency current and thereby impressing on the control circuit a potential great enough to cause current to flow therethrough from said source to energize said relay and close said electric circuit, means for maintaining said electric circuit closed, and means for opening said electric circuit, said last mentioned means including an auxiliary relay and thermostatic means for controlling the operation of said auxiliary relay.

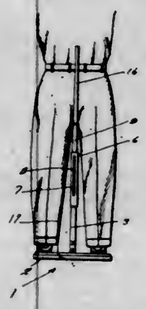
1,783,905. BURGLARPROOF LOCK. DANIEL COPELL, Atlantic City, N. J. Filed Feb. 15, 1929. Serial No. 340,182. 3 Claims. (Cl. 70—17.)



1. A lock of the class described comprising a casing having keeper receiving openings therein, a pair of

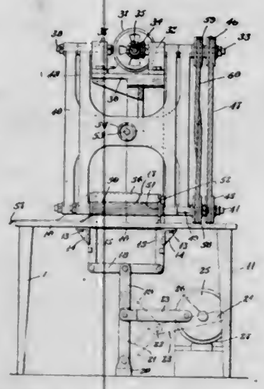
keepers for entering the openings, each keeper having an opening therein, a T-shaped bolt located in the casing and slidably mounted therein and having a depending part on each end of its head part for engaging the openings in the keepers when the bolt is moved to a certain position, spring means for normally holding the bolt in inoperative position within the casing and key operated means for holding the bolt in locking position in the casing.

1,783,906. DEVICE FOR MEASURING THE INSEAMS OF MEN'S TROUSERS AND HEIGHT OF WAISTBANDS. DE WITT DOCKSTADER, Johnston, N. Y. Filed Dec. 17, 1928. Serial No. 326,575. 1 Claim. (Cl. 33—8.)



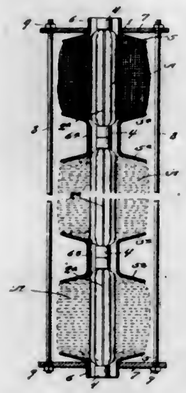
In a measuring device of the class described, a base, a standard extending upwardly therefrom, a guide rod secured at its lower end in the upper end of the standard, a casing encircling the rod and fixedly secured at its lower end on the upper end of the standard, the sides of the casing being formed with opposed longitudinally extending slots, a crotch stick arranged for slidable movement on the rod at the upper end of the casing, guide pins extending laterally from the opposite sides of the crotch stick for cooperation with the respective slots in the casing, and expansible coil springs arranged within the casing and encircling the rod for disposition between the standard and the crotch stick for normally urging the latter outwardly, and a crotch engaging member carried by the upper end of the crotch stick.

1,783,907. SHANKING MACHINE. DANA E. HARDING, Melrose, Mass., assignor to Harding Engineering Company, East Boston, Mass., a Corporation of Massachusetts. Filed Oct. 11, 1928. Serial No. 311,837. 3 Claims. (Cl. 149—20.)



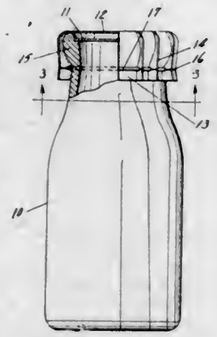
3. In a shanking machine, the combination of a worktable provided with a rectangular perforation, guideways secured to said table at each end of the rectangular opening, a triangular anvil movable through said opening, means on said anvil engaging with said guideways to constrain the anvil to move in a predetermined path, means for imparting a reciprocatory movement to said anvil, and corrugated rolls located above the table and operatively associated with said anvil.

1,783,908. ART OF TREATING YARN. JOHN C. HEBDEN, New York, N. Y., assignor to Dyeing Processes Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 11, 1927. Serial No. 174,597. 6 Claims. (Cl. 8—17.)



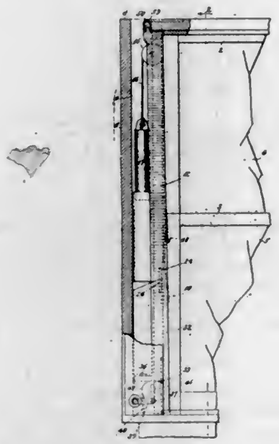
1. The improvement in preparing yarn for treatment with fluids which comprises assembling in axial alinement a plurality of hollow yarn packages in wound form and containing axially hollow, radially pervious, longitudinally fluted holders on which the respective packages are freely movable axially, placing joint-forming heads between the ends of adjacent packages, applying axial compression to the end packages of the series thus formed, causing such compression to be distributed and equalized throughout all the packages by movement of the packages axially on their respective holders, thereby producing uniform density of the yarn in all the packages of the series and forming fluid-tight joints between the ends of the packages and the joint-forming heads, and maintaining such end compression on the series of packages.

1,783,909. BOTTLE CAP. FRANK J. MACDONALD, Eliet, Ohio, assignor of one-half to John R. Gammeter, Akron, Ohio. Filed Dec. 21, 1927. Serial No. 241,561. 5 Claims. (Cl. 215—96.)



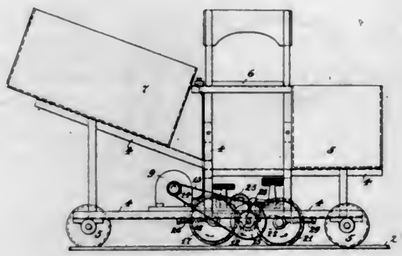
1. A protective cap for milk bottles or the like, comprising a circular head portion, a downwardly turned skirt portion adapted to extend down the neck of the bottle, and a yieldable, elastic band surrounding said skirt portion to hold the latter against the neck of the bottle under yieldable tension, said skirt portion being provided with outstanding reinforcing ribs limiting contraction of the skirt portion.

1,783,910. COLLAPSIBLE WINDOW FRAME. CARL MATTSON, New York, N. Y. Filed Nov. 20, 1929. Serial No. 408,512. 2 Claims. (Cl. 20—12.)



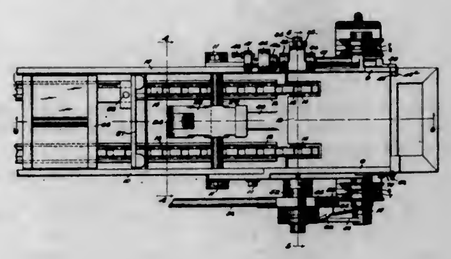
1. A window of the character described, including a pair of swinging parting strips, a sash cord and weight, means for removably connecting said cord with a sash, a hingedly mounted door forming part of said frame, and a lock mechanism for locking said door normally closed, said lock mechanism including a swinging and sliding bolt, said bolt having a portion acting as a lock and a portion acting as a handle, said handle being bifurcated and positioned to receive the end of said sash cord when the same has been removed from said sash, whereby the cord will not accidentally move to a position within the frame.

1,783,911. BOBBIN-SUPPLY TRUCK FOR WINDING MACHINES. JOHN O. MCKEAN, Westfield, Mass., assignor to Foster Machine Company, Westfield, Mass., a Corporation of Massachusetts. Filed Oct. 7, 1929. Serial No. 397,937. 5 Claims. (Cl. 105—33.)



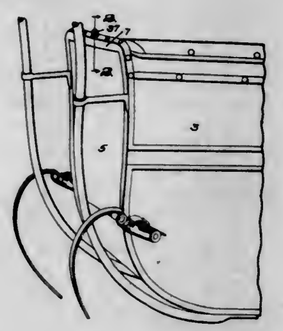
1. A bobbin supply truck arranged to travel back and forth in a fixed path along the side of a winding machine, and a driving mechanism for said truck comprising an electric motor fixedly mounted on the truck and flexibly connected to a fixed point of electric current supply, two driving wheels driven by the motor in opposite directions, spring means for yieldingly holding said wheels out of their driving position and means under the control of the operator for moving either of said wheels into its driving position for moving the truck in the one or the other direction.

1,783,912. CARTON-FEEDING MAGAZINE. EDWARD VAN DER PYL, Wilton, and ROBERT H. STIMPSON, Nashua, N. H., assignors to Automatic Packaging Machinery Company, Nashua, N. H., a Corporation of New Hampshire. Filed July 2, 1928. Serial No. 289,654. 14 Claims. (Cl. 271—62.)



1. In a packaging machine, a reciprocating magazine, carton feeding means actuated thereby, and feed regulating means also actuated thereby.

1,783,913. BABY CARRIAGE. BERTON L. BLANCHARD, Leominster, Mass., assignor to F. A. Whitney Carriage Company, Leominster, Mass., a Corporation of Massachusetts. Filed Apr. 15, 1929. Serial No. 355,058. 4 Claims. (Cl. 280—47.)

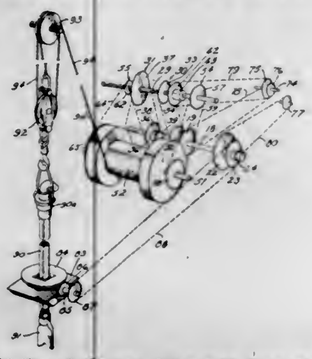


1. In a baby carriage body a drop front closing within a frame-like opening, a spring projected bolt received between the faces of said front, a keeper on the opposed edge of the frame, and a releasing device housed between the faces of the frame and having an operating handle exposed at the upper margin of the body and operable to repress the bolt.

1,783,914. DRAW WORKS FOR USE WITH HILD DRIVES. WILLIAM D. DAVIDSON, Los Angeles, Calif., assignor to Emsco Derrick & Equipment Company, Los Angeles, Calif., a Corporation of California. Filed June 12, 1929. Serial No. 370,405. 10 Claims. (Cl. 255—19.)

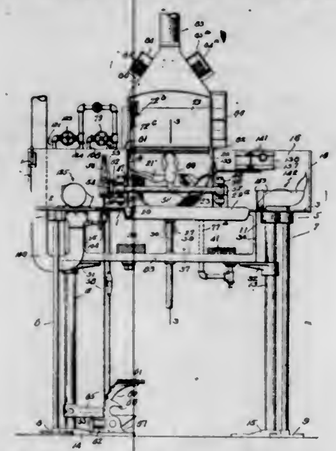
1. In a draw-works of the class described, the combination of: a counter-shaft; a drive means for driving said

counter-shaft; a line shaft; means whereby said counter-shaft may drive said line shaft; a drum shaft; means



whereby said line shaft may drive said drum shaft; and means on said line shaft whereby said drive means may drive said line shaft.

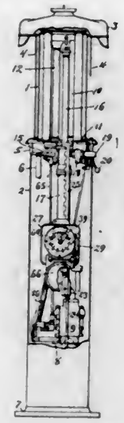
1,783,915. PROCESS OF AND APPARATUS FOR MOLDING HOLLOW LASTS. WILLIAM J. DE WITT, Auburn, N. Y., assignor to Shoe Form Co., Inc., Auburn, N. Y., a Corporation of New York. Filed Feb. 7, 1927. Serial No. 166,315. 58 Claims. (Cl. 18—19.)



32. Apparatus for use in making hollow shoe forms or lasts from sheet material comprising an inflatable cushion for supporting a blank while being molded, a horizontal rock shaft extending across the front of the cushion, a last supporting jack carried by the shaft, a spring tending to retain the shaft in inoperative position with the last jack remote from the cushion, a crank arm fixed to the shaft, a pedal lever, connection between the pedal lever and said crank arm for rocking the shaft when the pedal is depressed to swing the last supporting jack toward the cushion, and means actuable by the pedal for controlling the admission of steam to the cushion.

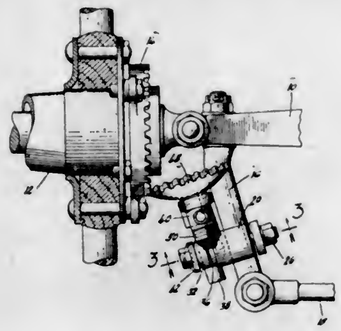
1,783,916. LIQUID-DISPENSING APPARATUS. FRANK B. EILERS, Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company, a Corporation of Indiana. Filed Jan. 14, 1929. Serial No. 332,267. 9 Claims. (Cl. 221—100.)

1. In liquid dispensing apparatus, a liquid display vessel; a filling means therefor; a discharge means including a vertically sliding tube and a dispensing valve related therewith through which liquid is dispensed from said vessel; a rack-bar operatively related with said sliding tube, having a series of notches made therein; an apertured lock-bar engageable in said notches selectively to arrest downward movement of said rack-bar; an adjustment including actuating means therefor, operatively related with said rack-bar; a rotatable and longitudinally movable member rotatably actuated by said adjustment and operatively related with said lock-bar with respect to the longitudinal movement of said member; a cam including means for adjustably positioning it, which cam has operative relation with said member respecting longi-



tudinal movement thereof; an indicator operatively related with said member respecting rotary movement thereof; a stop-block having interlocking relation with said rack-bar; a lock-bolt having interlocking relation with said lock-bar; a mechanism operatively related with said stop-block and bolt; a discharge lever operatively related with said dispensing valve and mechanism; and an interlocking mechanism related with the rack-bar and said filling means whereby operation of the rack-bar is prevented during operation of the filling means and vice versa.

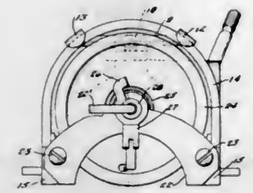
1,783,917. SPEEDOMETER-DRIVE CLAMP. EDWIN A. GUSTAFSON, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Mar. 19, 1927. Serial No. 176,756. 6 Claims. (Cl. 74—7.)



1. A speedometer drive comprising, in combination, a driven pinion, a bearing for the pinion, mounting means for said bearing affording axial and universal adjustment of said bearing, said bearing having a portion rotatably

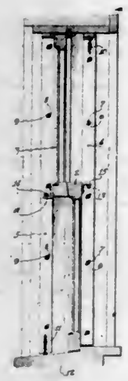
held in said mounting means on an axis different from the axis of said pinion, and a single clamping means for holding said bearing in adjusted position.

1,783,918. SPEEDOMETER. RALPH O. HELGERY, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Aug. 20, 1928. Serial No. 300,847. 3 Claims. (Cl. 264—13.)



1. In a measuring instrument, a frame, a U-shaped magnet supported adjacent the ends of its legs on said frame and the end faces of said legs engaging said frame, a clamp of substantially Y-shape, two legs of said clamp embracing said magnet between its ends, a third leg abutting said frame, and fastening means engaging a middle part of said clamp and adjustably secured to said frame.

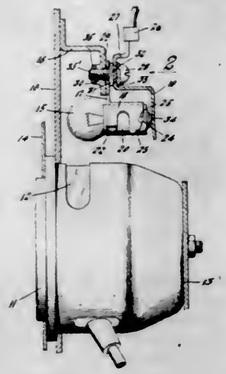
1,783,919. MOVABLE MOLDING FOR CLOSURE MEMBERS. CLARENCE G. JOHNSON, Hartford City, Ind. Filed Apr. 12, 1928. Serial No. 269,477. 5 Claims. (Cl. 20—52.6.)



1. In a window frame, a window comprising a pair of slidable sashes, the combination of movable moldings at opposite sides of the window and at the sides of the frame parallel to the path of the sashes, said moldings being mounted to move towards and away from said sashes, pins carried by the moldings, and brackets carried by said sashes, said brackets being adapted to engage said pins and draw the moldings towards the sashes.

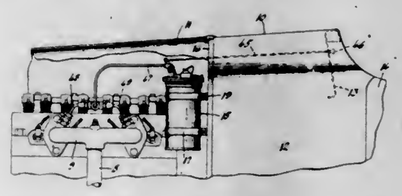
1,783,920. ILLUMINATING DEVICE FOR INSTRUMENT PANELS. DON E. KEENEY, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Mar. 14, 1929. Serial No. 347,029. 9 Claims. (Cl. 240—8.16.)

1. In an illumination device for use upon conductive panels carrying instruments: an open-sided socket element provided with resilient plug-retaining fingers near one end thereof and with parallel fingers, having pin-receiving notches therein, near the other end thereof;



substantially rigid conductive means for supporting said socket element from said panel; and resilient conductive means normally retaining said pins in said notches.

1,783,921. CONTAINER FOR REMOVING CARBON. CHARLES F. KETTERING, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Jan. 31, 1927. Serial No. 164,838. 28 Claims. (Cl. 123—198.)



1. In a carbon removing device, a tank, a discharge outlet for said tank, a breather on said tank, and a vent associated with said tank, said breather and vent cooperating to allow atmospheric pressure within said tank.

1,783,922. CONNECTING ROD. ANDERS W. KJELLBERG, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Mar. 9, 1928. Serial No. 260,315. 4 Claims. (Cl. 74—17.)

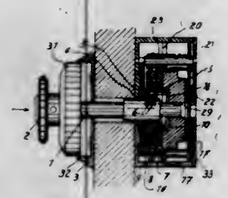


1. A connecting rod having a web and flange portions, and a lubricant conducting bore formed in said rod substantially at the junction of said web and one of said flange portions.

1,783,923. SAFETY LOCK. THEODOR KROMER, Freiburg, in Breisgau, Germany, assignor to Theodor Kromer Gesellschaft mit beschränkter Haftung, Freiburg, in Breisgau, Germany. Filed Feb. 29, 1928, Serial No. 258,073, and in Germany June 3, 1927. 2 Claims. (Cl. 70—53.)

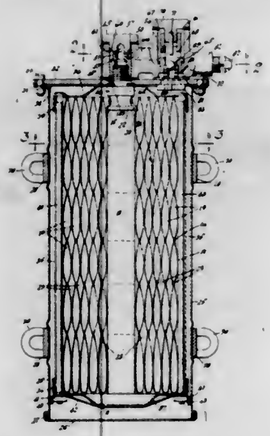
1. In a lock, the combination with a lock bolt and with an operating element for the same, of a rotatable lock

spindle adapted to be axially displaced for engagement with and disengagement from said operating element, a pivoted blocking lever adapted to enter the passage between the spindle and said operating element, a plurality of discs mounted on the spindle, a resilient controlling



arm on the lever resting on the discs and maintaining the lever normally in blocking position, the discs being provided with peripheral notches into which, when in alignment, the arm can drop so as to release the lever, and means on the spindle whereby the latter can be used for setting the discs in lever-releasing position.

1,783,924. OIL-FILTER MEMBER. CHARLES W. MCKINLEY, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Original application filed Mar. 11, 1926, Serial No. 93,944, and in Great Britain Feb. 21, 1927. Divided and this application filed Nov. 7, 1927. Serial No. 231,673. 2 Claims. (Cl. 210—164.)

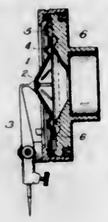


1. In a filtering device the combination with a receptacle having an end closure provided with an aperture of a filter body comprising a bag, a cage having an end head and a fitting to which said bag is connected projecting through said head and providing a passage communicating with the interior of the bag, said fitting being received in said aperture, and means exterior to said closure to secure said fitting thereto, said head being secured by said fitting to said closure.

1,783,925. SOLDERING FLUX. HARRY C. MOUGEY, Detroit, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed Aug. 19, 1929. Serial No. 387,089. 1 Claim. (Cl. 148—23.)

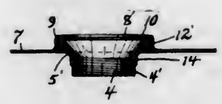
A soldering flux comprising zinc chloride, water and a water-soluble oil solvent of the group consisting of di-, tri- and tetra-ethylene glycol, ethyl and butyl carbitol, the mono-acetates of ethylene, and di-ethylene glycol and of the methyl and ethyl ethers of ethylene glycol, ethyl lactate, ethyl oxybutyrate and di-acetone alcohol.

1,783,926. DIAPHRAGM. MARTIN NYSTROM, Chicago, Ill., assignor, by mesne assignments, to United Research Corporation, Long Island City, N. Y., a Corporation of Delaware. Filed July 2, 1926, Serial No. 120,160. Renewed Oct. 7, 1930. 9 Claims. (Cl. 181—31.)



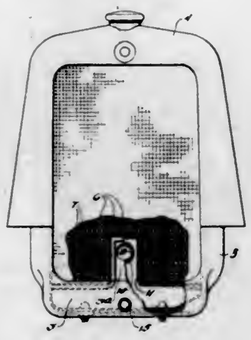
1. A diaphragm comprising an outer flexible metallic member having an opening therein and an inner rigid metallic member closing said opening and welded to said outer member.

1,783,927. BUNG FIXTURE FOR SHEET-METAL CONTAINERS. THEODORE W. RIEKE, Auburn, Ind., assignor to Rieke Metal Products Corporation, a Corporation of Indiana. Filed Oct. 1, 1928. Serial No. 309,651. 4 Claims. (Cl. 29—148.)



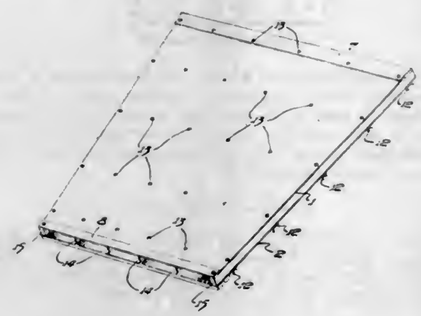
4. The method of applying a bung fixture to the wall of a container, consisting in making a bung opening in said wall and forming an embossment about the opening to provide a gasket seat and a distensible annular wall contingent therewith; forming a bung ring with a frustrum shaped flange at one end thereof; and pocketing said flange in said sheet by applying pressure to said flange and embossment while said flange is inserted in said embossment.

1,783,928. RADIATOR. ÉRIC OLLE SCHJOLIN, Birmingham, Mich., assignor to Yellow Truck & Coach Manufacturing Company, Pontiac, Mich., a Corporation of Maine. Filed Sept. 26, 1927. Serial No. 222,103. 2 Claims. (Cl. 257—125.)



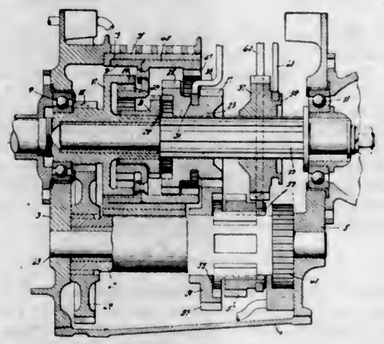
1. In a radiator of the tubular type, spaced inlet and outlet tanks, a series of straight water flow tubes connecting the tanks, a hollow extended portion constituting a part of one tank and projecting at right angles therefrom toward the other tank with its side walls in substantial parallelism with the straight water flow tubes, some of the tubes being longer than others and projecting beside the side walls of the extended portion and therebeyond into communication with the main portion of the tank and the other tubes terminating at the end wall of and communicating with said extended portion, a series of transverse plates through which said tubes extend, those plates beyond the extended portion each being continuous from side to side and receiving all of the tubes and the remaining plates being of shorter length and ending at an adjacent side wall of the extended portion and receiving only longer tubes of the tube series, and a lateral passageway through the extended tank portion for the insertion of a starting crank or the like.

1,783,929. MATRIX MAGAZINE. SAMUEL E. SPERRY, Hollis, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Feb. 8, 1930. Serial No. 426,969. 14 Claims. (Cl. 199—44.)



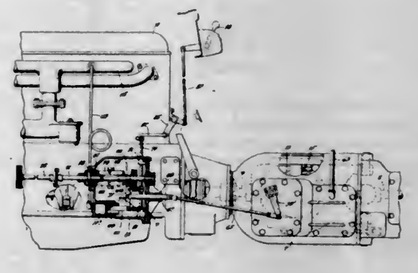
1. A matrix magazine comprising top and bottom plates at at least one of its ends composed of relatively strong metal, and intermediate top and bottom plates composed of a different relatively lighter-weight material and reinforced by the first-mentioned plates.

1,783,930. OVERGEAR TRANSMISSION. CLAUDE H. STERLING, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Jan. 15, 1927. Serial No. 161,356. 6 Claims. (Cl. 74—57.)



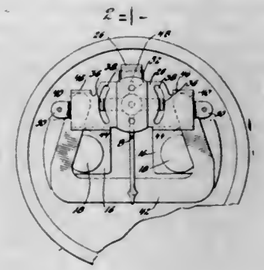
1. In a transmission device, a gear housing, aligned driving and driven shafts, a gear ring in said housing, a bearing for said gear ring within said housing and eccentrically surrounding said shafts, external and internal gears on said ring, gears on each of said shafts to co-operate therewith, said gear ring having a bearing surface engaging said bearing, said bearing surface having portions overlying the external gear and the internal gear of the gear ring.

1,783,931. TRANSMISSION CONTROL. PERRY L. TENNEY and HARRY E. FIDLER, Muncie, Ind., assignors to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed May 31, 1929. Serial No. 367,243. 14 Claims. (Cl. 74—97.)



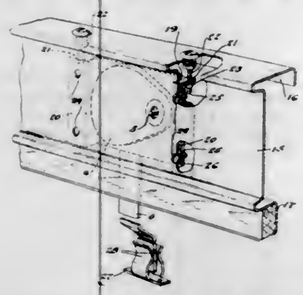
1. In combination with an infinitely variable transmission, an operating mechanism therefor comprising an operable member, transmission actuating means to actuate said variable speed transmission, a fluid pressure valve, a connection between said operable member and said valve and said transmission actuating means whereby said operable member operates through said valve to move said transmission mechanism by fluid pressure and whereby said connection thereafter closes said valve, together with a power cylinder having a piston, said cylinder being in communication with said valve, said connection including a floating lever, one end of said lever operably connected to said valve, the other end of said lever operably connected to said transmission operating means and to the piston of the power cylinder.

1,783,932. AMMETER. JOSEPH ZUBATY, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Feb. 6, 1929. Serial No. 337,904. 9 Claims. (Cl. 171—95.)



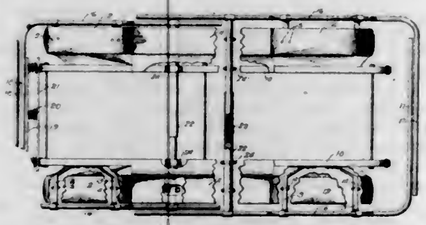
7. In an ammeter, a frame, a bridge on said frame, a magnet mounted on said bridge, an armature rotatably mounted in said frame, a pointer mounted to swing with said armature, and a field piece mounted on said bridge between the poles of the magnet to concentrate the lines of force adjacent the armature.

1,783,933. WINDOW-REGULATOR ADJUSTMENT. CHARLES O. BALL, Birmingham, Mich., assignor to Yellow Truck and Coach Manufacturing Company, Pontiac, Mich., a Corporation of Maine. Filed Apr. 20, 1928. Serial No. 271,545. 12 Claims. (Cl. 296—44.)



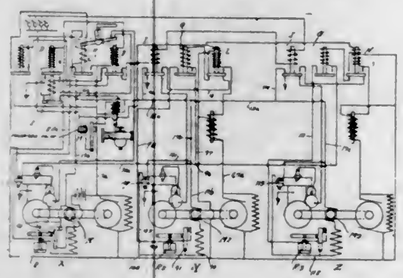
1. In combination, a body panel having a side and top, a window regulator located below the top, adjustable suspension elements hanging said regulator from the top, and adjustable locating means associated with said side, adapted to hold said plate in adjusted position.

1,783,934. PROTECTOR FOR AUTOMOBILES. EDWARD A. BANSCHBACH, Madison, Wis. Filed Apr. 1, 1929. Serial No. 351,761. Renewed Apr. 21, 1930. 29 Claims. (Cl. 293—35.)



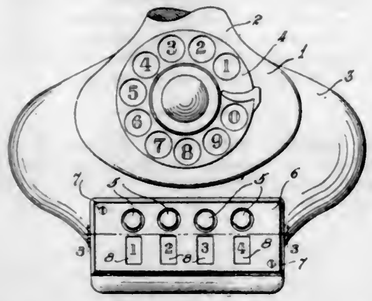
1. The combination with a vehicle, of protector bars detached from each other and arranged adjacent the sides of said vehicle, and spaced outwardly therefrom beyond the fenders and resilient means interposed between said bars and said body.

1,783,935. SYSTEM FOR THE GENERATION AND DISTRIBUTION OF ELECTRIC ENERGY. CHARLES L. HOMMEL, Detroit, Mich. Filed Dec. 12, 1925. Serial No. 74,985. 5 Claims. (Cl. 290—30.)



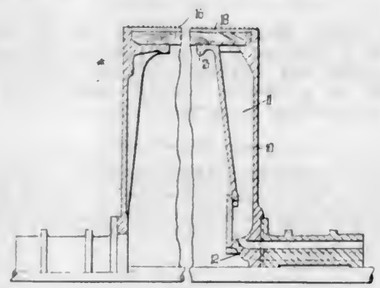
5. In an electric generating system, a series of electric generating units each including an internal combustion engine and a generator driven by the same, a separate starting motor for each unit, each unit of the series being adapted to supply current to a common load circuit, a low voltage battery, a circuit including the load circuit and battery controlled by any demand for current in the load circuit and adapted to start operation of the first unit of the series, means controlled by current demand in the load circuit controlling the starting and stopping of the units of the series, and means for recharging the battery.

1,783,936. AUXILIARY BASE AND SWITCH ATTACHMENT FOR TELEPHONES. CARLOS F. JOHANNING, Dennison, Tex. Filed Oct. 19, 1929. Serial No. 400,761. 6 Claims. (Cl. 177—333.)



4. The combination of a desk telephone having a base, an auxiliary base comprising a hollow block on which said base is adapted to rest and be fastened, switching means in said block for controlling electrical circuits and identification means for said switching means mounted adjacent thereto on said block.

1,783,937. FILTERING APPARATUS. EDWARD WALTER WOLFE KEENE, Kingston-upon-Hull, England. Filed Mar. 1, 1930. Serial No. 432,424, and in Great Britain Nov. 8, 1928. 3 Claims. (Cl. 210—202.)

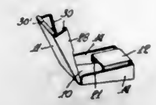


1. A filter apparatus comprising a drum shell having passages therethrough, radial ends for supporting said drum shell, at least one of which ends has a plurality of radial conduits formed therein, a filter cloth covering for said drum shell and a plurality of inverted channel shaped members arranged in pairs between said covering and said shell for dividing the space between said covering and said shell into separate filter compartments, the hollow passages formed by said inverted channel members communicating with said filter compartments and also with the radially disposed conduits in said drum end.

1,783,938. SEAL. FRANK KEIDEL, Elmhurst, N. Y., assignor to The International Seal and Knot Protector Co., New York, N. Y., a Corporation of New York. Filed Nov. 9, 1929. Serial No. 405,894. 9 Claims. (Cl. 292—325.)

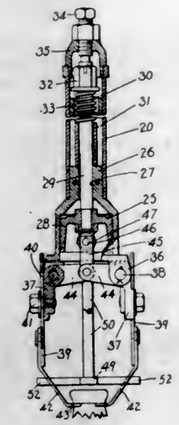
1. A seal including a main section, a section at one end adapted to fold thereinto, and having side walls

spaced from the side and bottom walls of the housing section, and a section at the other end of the housing and adapted to form a closure for the housing, said closure



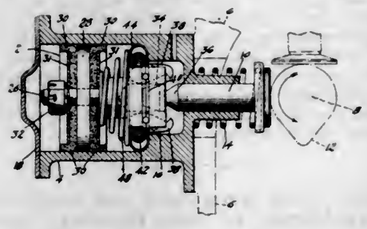
section being engageable with the side edges of the first mentioned end section to lock the closure section in closing position.

1,783,939. APPARATUS FOR HANDLING GLASSWARE. JOHN E. SCHRODER, Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Oct. 13, 1927. Serial No. 225,976. 8 Claims. (Cl. 214—1.)



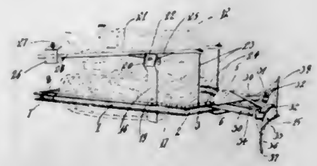
1. Apparatus for handling glassware comprising an arm mounted for movement between a ware receiving station and a ware delivery station, tongs mechanism carried by said arm, said tongs comprising a pair of gripping members each consisting of a pair of fingers, and means for moving said members toward and away from each other and simultaneously moving the fingers of each pair toward and away from each other.

1,783,940. FUEL PUMP. JOHN T. TRUMBLE, Lansing, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Apr. 5, 1926. Serial No. 99,820. 20 Claims. (Cl. 103—23.)



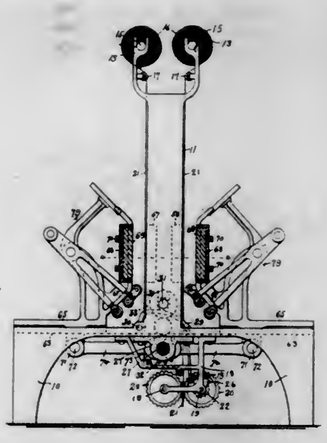
1. In a fluid pumping system, the combination of: a reciprocable and yieldable pumping member; a reciprocatory actuating member; and means therebetween, controlled by the pressure of the pumped fluid, for clutching one of said members to the other for continued and equal intake movement.

1,783,941. BACK FILLER. WALTER R. BUNCH, Los Angeles, Calif. Filed Oct. 4, 1926. Serial No. 130,347. 8 Claims. (Cl. 37—144.)



1. In combination with a power device, a frame, means for securing the said frame to the power device, the said frame terminating at a point at the forward end of the power device, a scraper blade, bars pivotally secured on the opposite sides of the said point to the said frame, means for pivotally securing the said bars to the said scraper blade, and a tie-bar connected at its opposite ends with the said scraper blade connecting bars for maintaining the said blade transverse to the angle of travel of the said power device for bulldozing.

1,783,942. PRINTING PRESS. RAPHAEL JACOBUCCI, Cleveland, Ohio. Filed Jan. 22, 1927. Serial No. 162,918. 14 Claims. (Cl. 101—198.)

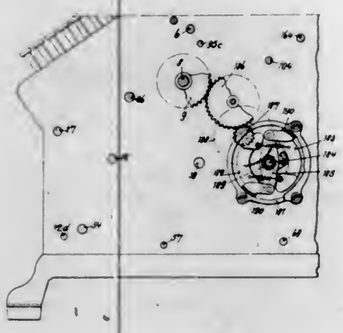


1. A printing press comprising a supporting frame, platen members supported on said frame in spaced relation, a printing form bearing member coacting with each of said platen members, means for simultaneously and intermittently moving said printing form bearing members toward and away from said platen members, means for intermittently moving a printing sheet over said platen members, a sheet of color imparting material, a drum operative to feed said color imparting material over said printing sheet, a ratchet coacting with said drum, a pawl device engageable with said ratchet, means for intermittently actuating said drum, and a guard element operative to hold said pawl away from said ratchet, and means for adjusting said guard element to control the throw of said drum.

1,783,943. COMBINED DUPLEX ADDING MACHINE AND CASH REGISTER. ERNST KASSNER, Berlin, Germany. Filed Jan. 8, 1927. Serial No. 159,770, and in Germany June 7, 1924. 30 Claims. (Cl. 235—60.)

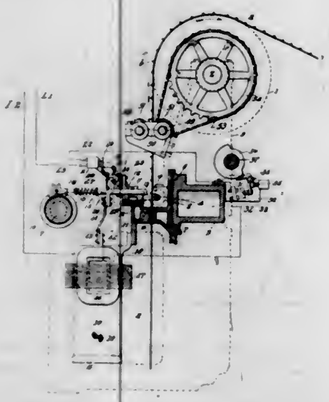
6. In a machine of the class described, the combination of two sets of totalizers, a common set of drive wheels for actuating said sets of totalizers and disposed substantially

intermediate thereof, key controlled means for actuating said drive wheels, means for transferring a total from one of the sets of the totalizers to the other set, and means



associated with the aforesaid key controlled means for zeroizing the set of totalizers from which the total is transferred.

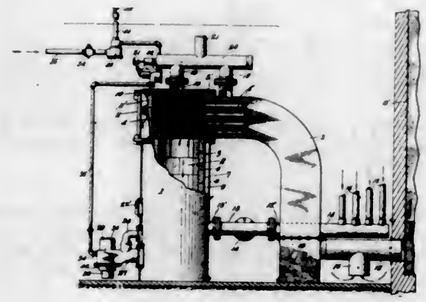
1,783,944. MACHINE FOR MAKING WELDED REENFORCING FABRICS. WILLIAM H. SOMMER, Peoria, Ill. Filed May 11, 1928. Serial No. 276,951. 8 Claims. (Cl. 140—112.)



1. In a machine for making fabrics for reenforcing, the combination with means for connecting cross wires to a series of longitudinal wires with ends of the cross wires projecting beyond the outside or marginal longitudinal wires, of combined guide and cutter mechanism arranged and operating to guide the wires and to sever the projecting ends of such cross wires flush with the outside or marginal longitudinal wires.

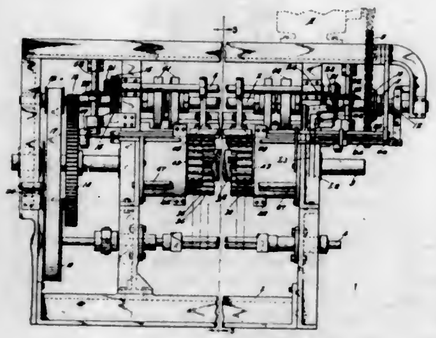
1,783,945. HEATING APPARATUS. WILLIAM H. SOMMER, Peoria, Ill. Original application filed Apr. 10, 1926, Serial No. 101,130. Divided and this application filed June 26, 1928. Serial No. 288,486. 6 Claims. (Cl. 236—9.)

1. In combination with a boiler and a fuel burner, a single fuel supply conduit connected to the burner, means connected to the conduit and responsive to room temperatures to control the fuel entering the burner through



said supply conduit, and means responsive to the boiler temperature and connected to the conduit for independently controlling the fuel entering the burner.

1,783,946. WIRE-FENCE MACHINE. WILLIAM H. SOMMER, Peoria, Ill. Filed Jan. 14, 1929. Serial No. 332,343. 29 Claims. (Cl. 140—4.)

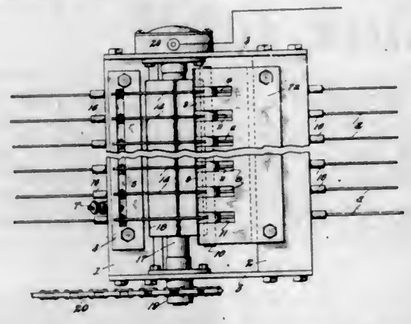


1. In a wire fence machine, in combination, a revoluble drum including spaced circumferentially arranged radial seats opening out of the surface of the drum, the opposite walls of said seats being parallel for the greater part of their depth and then converging toward each other, one such wall having a longitudinally disposed groove, pairs of guide bars in each seat joined at their base in the seats and also exteriorly of the drum and one such bar having a rib fitting said groove, a rack-bar reciprocally carried between each pair of guide bars, and a multiplicity of slotted twister wheels journaled in the joined portions of each pair of guide bars exteriorly of the drum and in meshing relation with a rack-bar.

1,783,947. STOP MECHANISM FOR DETECTING IRREGULARITIES IN WIRE FEEDING. WILLIAM H. SOMMER, Peoria, Ill. Filed June 29, 1929. Serial No. 374,702. 11 Claims. (Cl. 192—125.)

1. A stop mechanism for detecting irregularities in the feeding of fence wire, comprising a movably supported member with which a wire, when moving, is adapted to have an engaging relation and move the member with the wire, a rotatable member adapted to positively engage said

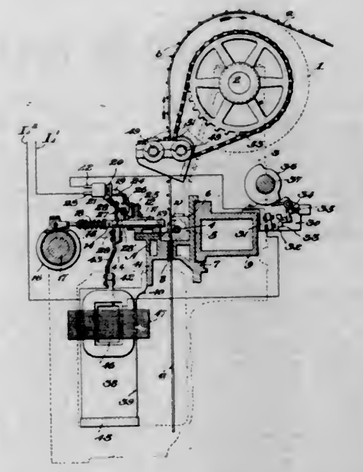
wire engaging member when advanced by the wire and return it to wire actuating position, an electrical circuit including a timer and separable contacts one of which is carried by said wire engaging member and the said contacts engageable to close the circuit when said wire engaging member is in non-operating position by said rotatable



member, clutch shifting means operative on the closing of said circuit and said circuit adapted to be closed when the moving contact between the wire and said wire engaging member has ceased and simultaneously with a predetermined position of said timer and the engagement of said contacts.

1,783,948. METHOD OF MAKING WIRE FABRICS. WILLIAM H. SOMMER, Peoria, Ill. Filed Nov. 4, 1929. Serial No. 404,762. 4 Claims. (Cl. 140—112.)

1. The herein described method of making fabrics for reinforcing, which resides in securing a series of cross wires to a series of longitudinal wires at points spaced inwardly from the ends of the cross wires and with the ends of the cross wires projecting beyond the marginal longitudinal wires, and then as a single step positively



guiding the longitudinal wires and simultaneously by and during such guiding severing the projecting ends of the cross wires to lie flush with the said marginal longitudinal wires.

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office

Vol. 401—No. 2 TUESDAY, DECEMBER 9, 1930 Price—$10 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscription, $10.00 per annum; including annual index, $11.50; single numbers, 25 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or concerning TRADE-MARKS, PRINTS, and LABELS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

CONTENTS

	Page
ISSUE OF DECEMBER 9, 1930	233
DISCLAIMERS	233
APPLICATIONS UNDER EXAMINATION	234
DECISIONS OF THE U. S. COURTS—	
Postum Cereal Company v. Enzo Jel Company	235
In re Stern	235
Baltimore Paint & Color Works v. Bennett Glass & Paint Company	237
PATENT SUITS	238
ADJUDICATED PATENTS	240
TRADE-MARKS PUBLISHED (193 APPLICATIONS)	241
TRADE-MARK REGISTRATIONS GRANTED	267
LABELS	273
PRINTS	273
REISSUES	275
DESIGNS	276
PATENTS GRANTED	290

Issue of December 9, 1930

Trade-Marks	139—No.	278,140 to No.	278,278, inclusive.
Labels	18—No.	38,354 to No.	38,371, inclusive.
Prints	2—No.	12,854 to No.	12,855, inclusive.
Reissues	4—No.	17,897 to No.	17,900, inclusive.
Designs	59—No.	82,719 to No.	82,777, inclusive.
Patents	860—No.	1,783,949 to No.	1,784,808, inclusive.
Total	1,082		

Disclaimers

1,593,400.—*Carl M. Gilt*, Brooklyn, N. Y. FREQUENCY CONVERTER. Patent dated July 20, 1926. Disclaimer filed November 12, 1930, by the assignee, *General Electric Company*.

Hereby enters this disclaimer to claims 1, 2, 3, 4, 5, 7, and 8 of said patent which are in the following words:

"1. In combination, two alternating current systems each of which has its own generating apparatus of substantially fixed frequency, means for tieing said systems together comprising a pair of mechanically connected alternating current dynamo electric machines having their primaries respectively electrically connected to said systems, at least one of said machines being of the asynchronous type, and means for applying an adjustable voltage in the secondary circuit of said asynchronous machine of the same frequency as the frequency of the secondary of said asynchronous machine.

"2. In combination, two alternating current systems each of which has its own generating apparatus of substantially fixed frequency, means for tieing said systems together comprising a pair of mechanically connected alternating current dynamo electric machines having their primaries respectively electrically connected to said systems, one of said machines being synchronous and the other asynchronous, and means for applying an adjustable voltage in the secondary circuit of said asynchronous machine of the same frequency as the frequency of the secondary of said asynchronous machine.

"3. In combination, two alternating current systems each of which has its own generating apparatus of substantially fixed frequency, means for tieing said systems together comprising a pair of mechanically connected alternating current dynamo electric machines having their primaries respectively electrically connected to said systems, at least one of said machines being of the asynchronous type, and means for applying a voltage in the secondary circuit of said asynchronous machine of the same frequency as the frequency of the secondary of said asynchronous machine, and means for varying said voltage to vary the interchange of energy between said systems.

"4. In combination, two alternating current systems each of which has its own generating apparatus of substantially fixed frequency, means for tieing said systems together comprising a pair of mechanically connected alternating current dynamo electric machines having their primaries respectively electrically connected to said systems, at least one of said machines being of the asynchronous type, and means for applying an adjustable voltage in the secondary circuit of said asynchronous machine of the same frequency as the frequency of the secondary of said asynchronous machine, said means comprising a dynamo electric regulator electrically connected to the secondary of said asynchronous machine.

"5. In combination, two alternating current systems each of which has its own generating apparatus of substantially fixed frequency, means for tieing said systems together comprising a pair of mechanically connected alternating current dynamo electric machines having their primaries respectively electrically connected to said systems, at least one of said machines being of the asynchronous type, means for applying a voltage in the secondary circuit of the asynchronous machine of the same frequency as the frequency of the secondary of said asynchronous machine, said means comprising a dynamo electric regulator electrically connected to the secondary of said asynchronous machine, and means for varying said voltage to vary the direction of the interchange of energy between said systems."

"7. In combination with two alternating current distribution systems each of which has its own generating apparatus of substantially fixed frequency, two alternating current dynamo electric machines having their primaries connected to said systems respectively and having their rotors mechanically connected together in such relation that when one machine is running synchronously with the system to which it is connected, the other machine is compelled to run at a non-synchronous speed with respect to the other system, said last mentioned machine being of the wound secondary asynchronous type and auxiliary apparatus associated with said asynchronous machine for applying an adjustable voltage in the secondary circuit of said asynchronous machine having the same frequency as the frequency of the secondary of the asynchronous machine.

"8. A frequency changer set comprising a pair of mechanically connected alternating current dynamo electric machines, one of which is an asynchronous machine of the wound secondary type, an alternating current exciter electrically connected to the secondary winding of said asynchronous machine, an ohmic drop exciter arranged to supply excitation to said first mentioned exciter at a frequency proportional to the slip frequency of said asynchronous machine and means for shifting the brushes on said ohmic drop exciter to vary the direction and magnitude of the load carried by said set."

1,729,068.—*Heinrich Fischer*, Cincinnati, Ohio. PROCESS OF REMOVING SOAP FROM ITS CONTAINER. Patent dated September 24, 1929. Disclaimer filed November 20, 1930, by the patentee.

Disclaims the invention set forth in claims 1–3 of his said patent excepting when in the process claimed the "making of the passage through the soap" is accomplished as set forth in lines 70–73 on page 1 of the said specification of his said patent, wherein "rods are placed in position in the container before it is filled, the liquid soap is poured in on them and after the soap hardens the rods are withdrawn."

Condition of Applications Under Examination at Close of Business November 28, 1930

(Total number of applications awaiting action, excluding Trade-Mark Division, 110,024; Trade-Mark Division, 1,351. Oldest new case, Feb. 3, 1930; oldest amended, Feb. 8, 1930.)

Room No	Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended application awaiting office action	No. of applications awaiting action
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	Apr. 10	Apr. 28	1,103
126	2. HADEN, C. F., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Velocipedes.	Mar. 29	Mar. 31	1,763
331	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	Apr. 10	Aug. 13	1,251
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	Apr. 21	Apr. 24	1,250
108*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	Apr. 10	Apr. 15	1,279
318	6. LEWERS, A. M., Carbon Chemistry	Feb. 19	Mar. 10	2,402
106	7. JARBOE, C. G., Optics; Photography	Feb. 24	Feb. 24	2,568
133	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Mar. 29	Apr. 4	1,683
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Apr. 28	May 1	1,568
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Apr. 23	Apr. 24	1,467
148*	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	May 7	May 7	950
380	12. HENRY, C. C., Machine Elements	Apr. 5	Apr. 2	1,517
154*	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Apr. 24	Apr. 21	1,375
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	Mar. 29	Apr. 28	1,411
329	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Feb. 20	Feb. 20	2,934
242*	16. SPENCER, C. J., Telegraphy; Telephony	Apr. 11	Apr. 29	1,202
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Mar. 3	Mar. 21	1,638
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Apr. 12	Apr. 11	1,455
236	19. KENNEDY, A. R., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Feb. 26	Feb. 24	2,578
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	Mar. 29	Apr. 10	1,381
212	21. THOMPSON, T. J., Textiles; Cloth Finishing	Apr. 18	June 2	890
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Apr. 7	Apr. 25	1,507
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Mar. 11	Mar. 5	1,121
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Mar. 17	Apr. 10	1,100
202*	25. BLAKELEY, C. F., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Apr. 2	Apr. 2	1,619
228*	26. HODGES, J. S., Electricity, Generation; Motive Power	Mar. 28	Mar. 31	1,147
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Mar. 31	Mar. 31	1,368
225	28. BENSON, A. R., Internal-Combustion Engines	Mar. 1	Mar. 1	2,165
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	June 28	July 2	581
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Apr. 14	Sept. 3	997
312	31. HOLMES, W. N., Distillation; Gas, Heating and Illuminating; Mineral Oils	Feb. 3	Feb. 8	2,813
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	May 31	June 4	1,407
152	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	May 5	May 5	2,655
304	34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	May 15	May 14	967
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	July 7	July 21	1,282
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring.	Mar. 28	Mar. 28	2,313
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Feb. 27	Feb. 28	2,042
145	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Mar. 8	Mar. 8	1,155
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Mar. 26	Mar. 26	1,790
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	Mar. 3	Apr. 11	3,325
125	41. WHITNEY, M. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	May 5	May 7	1,121
223*	42. CUTTING, H. O., Electric Signaling	Mar. 29	Mar. 28	1,698
124*	43. NASH, P. N., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Mar. 28	Mar. 28	1,781
253	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	Mar. 13	Mar. 17	2,228
379	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	Feb. 28	Feb. 28	2,456
233	46. TAYLOR, M., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Apr. 9	Apr. 12	1,356
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	Mar. 28	Apr. 21	2,369
212*	48. ROEPKE, O. B., Electricity, General Applications	Mar. 22	Mar. 25	1,287
239	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	May 15	June 21	1,580
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Feb. 28	Feb. 28	2,937
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Mar. 5	Mar. 5	2,448
144	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Apr. 19	Apr. 28	2,059
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	June 7	June 16	1,059
241	54. WAITE, W. E., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Feb. 14	Feb. 14	2,970
102	55. BOWEN, S. T. {Bread, Pastry, and Confection Making; Cutlery / Designs	Sept. 10 / Oct. 29	Sept. 10 / Nov. 8	312 / 367
309	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Mar. 3	Mar. 6	2,325
257*	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Mar. 28	Apr. 25	1,027
270*	58. DOWELL, E. F., Abrading; Typewriting	Feb. 25	Feb. 26	1,579
315	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Cement and Lime; Hides, Skins, and Leather; Fuel.	Apr. 5	Apr. 5	1,835
213*	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	Feb. 20	Feb. 20	2,277
269	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Horology; Time-Controlling Apparatus.	Feb. 5	Feb. 8	2,660
245*	62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Baggage; Package and Article Carriers.	Feb. 15	Feb. 17	2,760
300	63. WINKELSTEIN, A. H., Bleaching and Dyeing; Explosive, Pyrotechnic, and Match Compositions; Oils, Fats, and Glue; Preserving; Sugar, Starch, and Carbohydrates.	Feb. 28	Feb. 27	2,524
163	Trade-Marks, Labels, and Prints: F. A. RICHMOND. {Trade-Marks / Labels and Prints	Nov. 1 / Nov. 1	Nov. 15 / Nov. 17	1,132 / 151

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

POSTUM CEREAL COMPANY *v.* ENZO JEL COMPANY

No. 2,348. Decided June 4, 1930

[41 F.(2d) 101]

TRADE-MARKS—SIMILARITY—"ENZO JEL" AND "JELL-O".

The words "Enzo Jel" as used upon jelly powders *Held* not confusingly similar to the term "Jell-O" as applied to the same goods.

APPEAL from the Patent Office. Affirmed.

Mr. Edward S. Rogers, Mr. James L. Morris, and *Mr. Edward Ragan* for Postum Cereal Company.

Messrs. Mason, Fenwick & Lawrence, Mr. Edward T. Fenwick, Mr. Edward G. Fenwick, and *Mr. Charles R. Fenwick* for Enzo Jel Company.

HATFIELD, *J.:*

This is an appeal in a trade-mark opposition proceeding from the decision of the Commissioner of Patents affirming the decision of the Examiner of Interferences dismissing the notice of opposition and holding that appellee was entitled to the registration of its composite trade-mark, the dominant features of which are the words "Enzo Jel", for use on jelly powders.

It appears from the record that the goods of the parties are used for making jellylike desserts; that they possess the same descriptive properties; that appellant and its predecessors have used the registered mark "Jell-O" on jelly powders for many years prior to any use by appellee of its trade-mark; that appellant and its predecessors have expended large sums of money in advertising appellant's registered mark, and have sold enormous quantities of jelly powders in packages on which appeared the trade-mark "Jell-O"; and that the goods of the parties are sold in rather small and somewhat similar packages in grocery and other stores to the consuming public.

The record contains many trade-marks registered by others for use on goods possessing the same descriptive properties as the goods here involved. Among them are the following: Fruit-O-Jel, Advo Jel, Nu-Jell, Easy Jell, etc.

It appears from the record that John F. Enz, appellee's predecessor, had used the mark "Enzo" for evaporated milk and other products; and that, after he sold his so-called milk business, he engaged in the business of manufacturing jelly powders, and on April 9, 1926, adopted and used the mark "Enzo Jel" on pelly powders.

It is contended by appellant that "appellee has appropriated its valuable trade-mark Jell-O and has merely reversed it in Enzo Jel. O Jel is Jell-O backwards"; and that the use by appellee of its trade-mark will be likely to cause confusion in the trade and deceive purchasers. Indeed, it is contended that confusion has already occurred as a result of the use by appellee of its mark.

The decision of the Commissioner of Patents is concluded with the following observations:

There is no similarity between the two marks either as to appearance, sound, or suggestion, except as to the word "Jel" or "Jell" which is descriptive and as such not registerable. It appears from the record that there are many trade names for jelly powders in which the word "Jell" forms a part of the name.

The controlling part of the applicant's mark is the word "Enzo," derived from the applicant's surname Enz, to which is added the suffix O. There is nothing in the opposer's mark which corresponds in any particular to the applicant's surname.

In the case of *The Apex Electrical Manufacturing Company* v. *Landers, Frary & Clark,* 18 C. C. P. A. ——, 38 F. (2d) ——, this court, in an opinion by Graham, P. J., said:

In our opinion, there has been too much refinement of reasoning by both the Patent Office and counsel in some of these cases in the attempted dissection of words used as trade names.

* * * * * *

In considering whether a trade name will be confusing or not, consideration should be given to the whole word.

The quoted language is particularly applicable to the issues, and to the contentions of counsel for appellant, in the case at bar.

We can not accept the views of counsel for appellant that the mark "Enzo Jel" is merely the mark "Jell-O" reversed. On the contrary, the marks are quite different in appearance and sound. They do not suggest that the goods on which they are used have a common origin. Accordingly, in our opinion, their use on goods of the same descriptive properties will not be likely to cause confusion or deceit in the trade.

We are in accord with the conclusion reached by the Commissioner of Patents, and his decision is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE STERN

No. 2,343. Decided May 28, 1930

[40 F.(2d) 1000]

1. PATENTABILITY—APPEAL—NEW CLAIMS NOT CONSIDERED.

"New claims proposed to be added to an application after final decision by the Board of Appeals, upon motion made therefor, and entry of which is denied by the Board, can not be considered by us upon appeal. The tribunals of the Patent Office never having passed upon the merits of said claims, they can not be considered by us."

2. SAME—SAME—INCLINED ROADWAY.

Claims for an inclined roadway having certain tread sections for preventing slipping *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. Paul Carpenter, Mr. J. T. Basseches, and *Mr. R. B. Stewart* for Stern.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

LENROOT, *J.:*

This is an appeal from the decision of the Board of Appeals of the Patent Office affirming that of the

Examiner, rejecting claims 1 to 11, inclusive, of appellant's application. The following claims are illustrative of those in issue:

1. In a roadway, an inclined surface provided with a plurality of spaced tread sections disposed in a plane angularly opposite to that of the roadway.

4. In a roadway, a series of ramps in spaced relation, and a series of tread surfaces oppositely inclined with respect to said ramps and serving to connect them to form a substantially continuous inclined plane.

6. An inclined roadway, including a series of spaced tread surfaces substantially parallel with the plane of the roadway, and a plurality of tread surfaces connecting said first mentioned tread surfaces and disposed in planes oppositely angularly related thereto.

9. In an inclined roadway, a plurality of tread areas spaced apart and connected by intermediate tread areas having their surfaces contiguous with the upper edge of one of the first named surfaces, said intermediate tread area being inclined in a direction opposite to the first mentioned tread area to form a drain.

The references cited are: Rovedino (British), 3,184 of 1890; Kay (British), 17,794 of 1899.

After said decision was rendered by the Board of Appeals, appellant filed a request for reconsideration and asked permission to cancel all of his claims and to substitute therefor two additional claims, reading as follows:

12. In an inclined roadway or walk having its tread surface formed of two sets of plane surfaces inclined to each other and to the general plane of the roadway, so as to intersect each other in lines transverse to the line of the roadway and provide a series of alternate long and short tread surfaces with the longer tread surfaces sloping toward the lower end of the roadway, whereby a safe and efficient anti-slipping traction surface is provided.

13. In an inclined roadway or walk formed of blocks each having its tread surface formed of two sets of plane surfaces inclined to each other and to the general plane of the roadway, so as to intersect each other in lines transverse to the line of the roadway and provide a series of alternate long and short tread surfaces with the longer tread surfaces sloping toward the lower end of the roadway, whereby a safe and efficient anti-slipping traction surface is provided.

These requests were denied and such denial is assigned as error in the reasons of appeal filed by defendant.

Considering first this assignment of error, new claims proposed to be added to an application after final decision by the Board of Appeals, upon motion made therefor, and entry of which is denied by the Board, can not be considered by us upon appeal. The tribunals of the Patent Office never having passed upon the merits of said claims, they can not be considered by us. *Application of Parker*, 53 App. D. C. 209.

In the case of *In re Appelburg*, 17 C. C. P. A. —, 37 F.(2d) 620, 394 O. G. 7, this court said:

> We know of no applicable law or rule of practice to justify the allowance in this court of the amendment of a claim which would substantially change the character of the same from what it was before the Board of Appeals.

We may add that rule 68 of the Patent Office expressly provides that "After decision on appeal, amendments can only be made as provided in rule 140 or to carry into effect a recommendation under rule 139." Appellant's application to amend did not come within either of said rules 139 or 140.

We think appellant concedes the correctness of the rule above stated, but asks this court to exercise a discretion and suggest to the Patent Office the allowance of said claims. While such a course may sometimes be proper, where the court reverses a case upon grounds other than refusal to consider amendments proposed after final decision of the Board of Appeals, we do not think it proper for us to make any suggestions to the Patent Office regarding the allowance of claims not considered by it in cases where we affirm its decisions.

This brings us to the question of the patentability of claims 1 to 11, inclusive.

The Board of Appeals in its decision describes appellant's alleged invention as follows:

> The alleged invention is an inclined roadway or walk having its tread surface formed of two sets of plane surfaces inclined to each other and to the general plane of the roadway so as to intersect each other in lines transverse to the line of the roadway thereby forming a tread surface having elevations and depressions extending across the roadway. As shown in the drawings the surfaces which slope towards the lower end of the roadway are longer than the other or intersecting surfaces. This gives a series of alternate long and short tread surfaces with the longer tread surfaces below the short surfaces. This construction affords elevations which are sufficient to engage the heel of a shoe and hinder the slipping tendency without causing the catching and holding the heel of the shoe so as to cause the pedestrian to trip and fall.

Immediately following the above quotation, the decision states: "The claims are broad and do not refer to the relative lengths of the tread surfaces."

As stated, the two references relied upon by the Patent Office are British patents to Kay and Rovedino. The Board rejected the claims upon three separate grounds, as follows:

1. That they read directly upon Kay.

2. That merely to incline Kay's cross steps to a lesser degree, as shown by the blocks of Rovedino, would not involve invention.

3. That to provide a ramp with a surface such as shown by Rovedino does not involve invention.

The object sought to be obtained by applicant and in the references are, we think, the same, viz.: to secure a foothold by persons or animals to prevent slipping. Appellant's application relates broadly to pavements and more particularly to a ramp or inclined plane, that of Kay to an inclined plane or a level surface, and that of Rovedino presumably to a level surface, although his specification is silent upon that subject, except as his drawings indicate a level surface.

Appellant describes the purpose of his invention as affording in a ramp or inclined roadway "an inclined tread surface which includes tread portions affording substantially level tread surfaces which assure a safe footing for pedestrians"; a further purpose is described as providing drainage at all times.

Kay describes the purpose of his invention as follows:

> My invention has for its object the provision of a safe walking surface for sloping roads or foot ways, subways, passages, floors, and the like, the invention being specially applicable to inclined or sloping footways or subways.

Rovedino describes his invention as a—

> Wood paving block combined with concrete or other substance the object and intention thereof being to lay such paving and of such form so as to afford a *secure foothold for horses* and *prevent the frequent occurrence of slipping* caused by the present wood or other paving now in use. (Italics ours.)

As stated by the Board of Appeals, the claims in issue are very broad, and we think they are fully anticipated by the patent to Rovedino. He describes a pavement composed of bricks or blocks, having the upper surface serrated, several forms being shown in his drawings in longitudinal and transverse sections. An inspection of the figures in said drawings show the surface to be made up of series of oppositely inclined surfaces merging into each other, more especially when continuously serrated blocks, as shown in Figure 4 of his drawings, are used.

Appellant contends that the tribunals of the Patent Office misconstrued Rovedino's drawings in that they have construed the crests of the serrated blocks there shown as comparable to the flattened tread surfaces shown in appellant's specification. We think the serrated surfaces shown by Rovedino are comparable to the "tread surfaces" found in appellant's claims, for they are all tread surfaces, including the serrated edges thereof.

It is true that Rovedino shows, in addition to his serrated blocks, ends of the same cut and sloped toward the outer ends, but Figure 4 of his drawing shows a construction without this feature, which construction he calls "continuous serrated".

It is obvious that when Rovedino's blocks are laid transverse to the roadway, a drain will result as described in appellant's claims, and we think it it clear that Rovedino shows placing his blocks with the serrated edges or surfaces transverse to the going way of the road.

We think appellant's claims read directly upon the Rovedino patent, unless there be invention in applying the method therein disclosed to a ramp or inclined roadway. We are clear that there is no invention in so applying it. In the first place, there is nothing in Rovedino's application from which it could be inferred that he had only in mind a level roadway. His invention relates to paving blocks, and his object was to afford a secure foothold for horses and prevent the frequent occurrence of slipping. We must assume that he had in mind paved roadways, "up hill and down dale", as well as upon the level. Certainly his pavement upon a hill would present exactly the same general contour as appellant's ramp or inclined roadway. But even if the Rovedino patent should be construed to be limited to a level roadway, we agree with the Board of Appeals that to apply his construction to a ramp would not involve invention.

There is only one of the claims in issue that, under our construction of the Rovedino reference, does not read directly upon it, and that is claim No. 11, reading as follows:

> 11. In an inclined roadway, a plurality of tread surfaces spaced apart and of substantially uniform area, said surfaces being connected by intermediate tread surfaces of lesser area whose edges are contiguous with the upper edge of each of the adjacent surfaces, and said intermediate tread surfaces being inclined oppositely to the plane of the roadway.

It will be noted that this claim provides for a plurality of tread surfaces of one substantially uniform area and other tread surfaces of lesser area. This difference in area of different surfaces is not found in Rovedino, but we think that the claim is not *patentably* distinguished from Rovedino's disclosure.

While the Patent Office tribunals seem to have relied principally upon the Kay patent as anticipating appellant's claims, in view of the conclusion we have reached it is unnecessary to consider it.

We express no opinion as to whether appellant's specification discloses an invention. We can consider only the claims before us, and the disclosure of his specification in connection therewith. The claims are so broad as clearly to read upon the Rovedino patent, and we cannot read into them limitations which would avoid such reference, even if appellant's specification would support patentable claims had they been made. *McCarty* v. *Lehigh Valley Railroad Co.*, 160 U. S. 110, 78 O. G. 1707.

The decision of the Board of Appeals of the Patent Office is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

BALTIMORE PAINT & COLOR WORKS *v.* BENNETT GLASS & PAINT COMPANY

No. 2,388. Decided June 4, 1930

[40 F.(2d) 1009]

TRADE-MARKS—SIMILARITY—MARKS FOR PAINTS INCLUDING THE TERM INSURANCE.

A trade-mark for paints consisting of the notation "Surface Insurance Policy Products" *Held* confusingly similar to a composite trade-mark for the same goods including the name Bennett's and the words "Property Life Insurance" since the word "Insurance" is the dominant feature of each mark.

APPEAL from the Patent Office. Affirmed.

Mr. George P. Kimmell and *Mr. Samuel Bogorad* for Baltimore Paint & Color Works.

Mr. Harry C. Robb and *Mr. John F. Robb* for Bennett Glass & Paint Company.

LENROOT, *J.*:

This is an appeal from a decision of the Commissioner of Patents sustaining a petition for cancellation of appellant's registered mark and directing the cancellation thereof. The decision appealed from affirmed a like decision of the Examiner of Trade-Mark Interferences.

Appellant obtained its registration on May 31, 1927, the mark consisting of the notation "Surface Insurance Policy Products," used on paste-form and ready-mixed paints and varnishes, the word "Products" being disclaimed apart from the mark as shown. Appellee claims prior adoption and use of the mark consisting of the words "Property Life Insurance" upon the identical class of goods, and sets forth ownership of registration No. 179,849, issued February 19, 1924, and No. 206,312, issued November 24, 1925. The earlier registration discloses a composite mark consisting of the word "Bennett's" in large letters, and underneath to the left, enclosed in a circle, the words "Property Life Insurance"; to the right is a circle enclosing the profiles of a woman and a Roman soldier.

The later registration of appellee is for the words "Property Life Insurance" alone.

Appellee took testimony, but appellant did not. The testimony submitted on behalf of appellee establishes adoption and use of its said composite

mark since a date long prior to the earliest alleged date of adoption and use by appellant of its mark.

We think appellee's testimony establishes that it has made no use of the mark "Property Life Insurance", apart from the composite mark registered by it as aforesaid. In view of the conclusion we have reached, it is unnecessary to consider whether appellee has a right to rely upon the last mark registered by it to sustain its opposition.

Inasmuch as the marks of both parties are used upon the identical class of goods, the question before us is whether the marks so nearly resemble each other as to be likely to cause confusion or mistake in the mind of the public or to deceive purchasers.

Both the Commissioner and the Examiner of Trade-Mark Interferences state that the question is not free from difficulty, but resolved the doubt in favor of appellee, the earlier user of the mark containing the word "Insurance".

We agree that whether the marks are confusingly similar is not free from doubt. The important question is whether the word "Insurance" is the dominating feature of appellant's mark and of the composite mark of appellee. Counsel for appellant argues that the word "Insurance" is not the salient feature of the marks either of appellant or appellee, but that the word "Surface" is the salient feature of appellant's mark and the word "Bennett's" is the salient feature of the mark of appellee.

That the word "Insurance" is the dominating feature of appellant's mark we have no doubt. The word "Surface" is clearly descriptive; standing alone, it could not be appropriated as a trade-mark, and it is not the word of appellant's mark that purchasers would be likely to retain in their minds. On the other hand, the word "Insurance", not being descriptive but merely broadly suggestive of protection to the surface of material to which the paint is applied, would likely be remembered by purchasers as indicating origin of the goods upon which the mark is used.

As to whether the word "Insurance" in the composite mark of appellee is the dominant feature of the mark, we are not so clear; but we think it not unreasonable to assume that, for the same reasons as we have suggested with regard to the same word in appellant's mark, purchasers would be more likely to remember the word "Insurance" in said composite mark than any other part thereof. This conclusion is supported by the testimony introduced by appellee, in which it is shown that in its extensive advertising it emphasized the expression "Property Life Insurance", thereby seeking to fasten those words upon the public mind in purchasing its products.

Appellant contends that there is no confusion likely by the use of the two marks because the goods of the parties are not sold in the same territory, and cites the cases of *Hanover Star Milling Co.* v. *Metcalf*, 240 U. S. 403, 224 O. G. 1407, and *United Drug Company* v. *Theodore Rectanus Company*, 248 U. S. 90, 264 O. G. 356, in support of that contention. It is unnecessary for us to determine whether territorial limitations of markets can be considered in a proceeding of this character under the Trade-Mark Act, for the reason that appellant's contention of noncompeting markets is not established by the testimony. While it may be fairly inferred from appellee's testimony that its market was almost wholly confined to the intermountain States, and that its products do not reach eastern markets to any substantial extent, there is no evidence that appellant's products bearing its trademark are not sold in the same territory where the goods of appellee are sold. The testimony is that the volume of appellee's business amounts to about $300,000 annually. There is no testimony as to the volume of appellant's business. We have no right to conclude, in the absence of testimony, that appellant's business is limited to any particular part of the United States. Furthermore, appellant in its answer to the petition for cancellation did not allege any territorial limitation of the sales of its products upon which its mark is used.

While, as already stated, the question of whether the two marks so nearly resemble each other as to be likely to cause confusion or mistake in the mind of the public or to deceive purchasers is not free from doubt, we agree with the Commissioner that the doubt is of such a character that, in accordance with the well-established rule in such cases, it should be resolved against appellant, the later registrant and later user of the word "Insurance" as part of a trade-mark applied to paints. *Salant & Salant, Inc.* v. *Feldman & Weinman*, 58 App. D. C., 11, 24 F. (2d) 276, 371 O. G. 259; *Goodrich Drug Company* v. *Cassada Manufacturing Company*, 46 App. D. C., 146; 237 O. G. 918.

The decision of the Commissioner of Patents is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

961,165, J. F. Rowley, Artificial-limb suspender and back check, D. C., E. D. Mich., S. Div., Doc. 1864, *The J. F. Rowley Co.* v. *F. R. Ritter* (*Detroit Artificial Limb Works*). Dismissed for want of prosecution Oct. 10, 1930.

1,033,988, H. L. Coburn, Reenforced-concrete dam, D. C., E. D. Mich., S. Div., Doc. 1638, *Ambursen Construction Co., Inc.*, v. *City of Highland Park, Mich.* Dismissed for want of prosecution Oct. 7, 1930. Doc. 1639, *Ambursen Construction Co., Inc.*, v. *Consumers Power Co.* Decree as above Oct. 8, 1930.

1,058,210, Welch and Welch, Method of finishing castings, D. C., E. D. Mich., S. Div., Doc. 2062, *American Plug Co. et al.* v. *The Brewer Titchener Corp.* Dismissed by consent Oct. 1, 1930.

1,058,285, L. A. Young, Upholstery spring construction; 1,428,701, O. A. Michelis, Wire loop; 1,439,891, J. T. Holtfoth, Spring cushion structure, D. C., E. D. Mich., S. Div., Doc. 1818, *L. A. Young Industries, Inc.*, v. *Premier Cushion Spring Co.* Dismissed by consent Oct. 2, 1930.

1,090,370, Re. 18,932, 1,105,053, Wylde and Schenck, Door-controlling device, C. C. A., 3d Cir., Doc. 4251, *Elevator Supplies Co.* v. *Graham & Norton Co.* Decree affirmed Oct. 6, 1930.

1,093,009, 1,147,973, J. C. Ramsey, jr., Lamp support; 1,144,956, H. Aiken, Lamp socket; 1,497,896, Edgecumbe and Cowderoy, Spotlight bracket, D. C., E. D. Mich., S. Div., Doc. 1735, *Unity Mfg. Co.* v. *Bachem Sales Co.* Dismissed by consent Oct. 8, 1930.

1,104,589 (*a*) Ward and Taylor, Gear-grinding machine; 1,155,532, F. A. Ward, Machine for grinding splined shafts; 1,271,495, same, Method of grinding splined shafts and other interrupted cylindrical bodies; 1,273,016, same, Splined shaft, filed Oct. 9, 1930, D. C., E. D. Mich., S. Div., Doc. 4484, *Gear Grinding Machine Co.* v. *Hudson Motor Car Co.* Doc. 2392, *Gear Grinding Machine Co.* v. *The Studebaker Corp.* Dismissed by consent Oct. 18, 1930.

1,104,589 (*b*), Ward and Taylor, Gear-grinding machine, D. C., E. D. Mich., S. Div., Doc. 2391, *Gear Grinding Machine Co.* v. *Bevel Gear Grinding Co.* Dismissed for want of prosecution Oct. 10, 1930.

1,105,053. (See 1,090,370.)

1,111,658. (See Des. 60,740 (*a*) and (*c*).)

1,118,547, W. C. Griffin, Fruit-drying machine; 1,122,018, C. C. McIntosh, same; 1,466,798, H. M. Miller, Apparatus for and method of peeling vegetables or fruits; 1,468,873, W. D. Bost et al., Apparatus for peeling fruits or vegetables, filed Oct. 2, 1930, D. C., W. D. Wash., N. Div., Doc. 772, *Stebler-Parker Co.* v. *C. M. Bryant Fruit Machines Co.*

1,122,018. (See 1,118,547.)

1,125,476, G. Claude, System of illuminating by luminescent tubes, filed Oct. 6, 1930, D. C., S. D. Calif. (Los Angeles), Doc. E S–48–J, *Claude Neon Electrical Products, Inc., et al.* v. *Metlow Corp., Ltd., et al.*

1,134,749. (See Des. 60,740 (*a*) and (*c*).)

1,134,820, A. B. Chance, Land anchor; 1,620,896, J. R. Kearney, same, D. C., E. D. Mo. (St. Louis), Doc. 8224, *A. B. Chance* v. *W. N. Matthews Corp.* Patent No. 1,134,820 and claims 2, 3, and 4 of Patent No. 1,620,896 held valid and infringed, October 6, 1930.

1,144,956. (See 1,093,009.)

1,146,182, S. Lipsius, Raised printing process and product, filed Oct. 8, 1930, D. C., S. D. N. Y., Doc. E 56/28, *S. Lipsius et al.* v. *Wood, Nathan & Virkus Co., Inc.*

1,147,973. (See 1,093,009.)

1,155,532. (See 1,104,589 (*a*).)

1,172,322, P. Torchio, Protective device for electric cable joints, D. C., N. D. Ohio, E. Div., Doc. 1772, *Metropolitan Device Corp.* v. *Cleveland Electric Illuminating Co.* Claims 3 and 4 held valid and infringed Sept. 12, 1930.

1,174,403, F. K. Fassett, Door-operating mechanism; 1,565,143, H. J. Fear, Elevator-door control; 1,587,007, C. Norton et al., Door-operating mechanism for elevators, C. C. A., 3d Cir., Doc. 4250, *Elevator Supplies Co.* v. *Graham & Norton Co.* Decree affirmed Oct. 3, 1930.

1,225,051, H. M. Peters, Portable electric lamp, appeal filed Oct. 7, 1930, C. C. A., 2d Cir., Doc. 11126, *Faries Mfg. Co.* v. *S. W. Farber Mfg. Co.*

1,271,495. (See 1,104,589 (*a*).)

1,273,016. (See 1,104,589 (*a*).)

1,274,032, J. D. Gibbs, Railway passes, filed Oct. 9, 1930, D. C., E. D. Mo. (St. Louis), Doc. 9184, *Gibbs-Inman Co.* v. *G. D. Barnard Stationery Co.*

1,283,646, C. A. Brawn, Rock-drill bit, D. C., S. D. Calif. (Los Angeles), Doc. E P–67–J, *E. M. Smith et al.* v. *A. A. Weber* (*Spartan Steel Co.*). Dismissed without prejudice Sept. 18, 1930.

1,301,331, R. S. Smith, Electrodes for arc welding; 1,754,063, R. Stresau, Coated metallic arc weld rods and method of making, filed Oct. 6, 1930, D. C., N. D. Ohio, E. Div., Doc. 3515, *A. O. Smith Corp.* v. *The Lincoln Electric Co.*

1,340,423, F. Smith, Parachute; 1,403,983, same, Parachute pack; 1,462,456, same, Parachute pack and harness, etc.; 1,554,192, G. M. Ball, Parachute pack; 1,560,366, same, Parachute harness, appeal filed Aug. 12, 1930, C. C. A., 3d Cir., Doc. 4478, *Irving Air Chute Co., Inc., et al.* v. *Russell Parachute Co.*

1,358,483, A. Wachsman, Stop mechanism for knitting machines, filed Oct. 4, 1930, D. C., S. D. N. Y., Doc. E 55/393, *A. Wachsman* v. *F. Philip.*

1,372,680, C. E. Frost, Brush, filed Oct. 10, 1930, D. C., N. D. Ohio, E. Div., Doc. 3531, *The Osborn Mfg. Co.* v. *The Specialty Mfg. Co.*

1,379,008, A. B. Frenier, Temperature-producing mechanism and controlling means therefor, D. C., E. D. Mich., S. Div., Doc. 1930, *American Nokol Co.* v. *Silent Automatic Corp.* Dismissed for want of prosecution Oct. 10, 1930.

1,399,750, Dalton and Meulle, Reel oven, D. C., S. D. Calif. (Los Angeles), Doc. Q–51–J, *J. Dalton et al.* (*Dalton Oven Co.*) v. *W. F. Drew et al.* (*Industrial Inventions Mfg. Co.*). Dismissed without prejudice Sept. 18, 1930.

1,403,983. (See 1,340,423.) 1,428,701. (See 1,058,285.)

1,432,442, E. F. Collins, Electric furnace, D. C., E. D. Mich., S. Div., Doc. 1596, *General Electric Co.* v. *Holcroft & Co.* Dismissed for want of prosecution Oct. 7, 1930.

1,433,975, C. L. Snyder, Abstract of title and method of making same, filed Oct. 9, 1930, D. C., E. D. Mich., S. Div., Doc. 4485, *The Automobile Abstract & Title Co.* v. *J. S. Haggerty.*

1,439,891. (See 1,058,285.)

1,448,245. (See Re. 17,107.)

1,462,456. (See 1,340,423.) 1,466,798. (See 1,118,547.)

1,468,873. (See 1,118,547.)

1,473,591, 1,527,026, 1,568,721, J. O. Cadieux, Electric signal switch; 1,511,190, same, Mounting for light; 1,553,747, same, Signal station; 1,559,312, same, Electric signal receptacle, filed Oct. 14, 1930, D. C. Conn. (New Haven), Doc. E 2089, *Connecticut Telephone & Electric Corp.* v. *Standard Electric Time Co. et al.*

1,481,021. (See Re. 17,107.)

1,482,217, A. B. Broluska, Tire structure, D. C., E. D. Mich., S. Div., Doc. 1924, *A. B. Broluska* v. *S. Waze* (*Belle Tire Corp.*). Dismissed for want of prosecution Oct. 10, 1930.

1,497,896. (See 1,093,009.) 1,511,190. (See 1,473,591.)

1,523,704, E. C. Morine, Vehicle top, D. C., E. D. Mich., S. Div., Doc. 1761, *Weatherproof Body Corp.* v. *Federal Motor Truck Co.* Dismissed by consent Oct. 9, 1930.

1,527,026. (See 1,473,591.)

1,543,963, J. N. Walton, Metallic Packing, C. C. A., 8d Cir., Doc. 4343, *Anchor Packing Co.* v. *Crane Packing Co.* Decree reversed Oct. 11, 1930.

1,553,747. (See 1,473,591.) 1,554,192. (See 1,340,423.)

1,559,312. (See 1.473,591.)

1,559,520, T. M. Fairbairn, Putting green and similar playing surface, D. C., S. D. Ind. (Indianapolis), Doc. 1252, *T. M. Fairbairn et al.* v. *Playmore Corp.* Injunction Aug. 18, 1930.

1,560,366. (See 1,340,423.) 1,561,437. (See Re. 17,107.)

1,563,721. (See 1,473,591.) 1,565,143. (See 1,174,403.)

1,571,544, Garlinghouse and Venable, Measuring device for bulk materials, appeal filed Aug. 4, 1930, C. C. A., 8d Cir., Doc. 4468, *Erie Steel Construction Co.* v. *Blow-Knox Co.*

1,587,007. (See 1,174,403.) 1,602,510. (See Re. 17,107.)

1,609,153, Carter and Best, Oil-well plug, C. C. A., 10th Cir., Doc. 217, *The Eagle Picher Lead Co.* v. *Robinson Packer Co.* Decree affirmed Sept. 23, 1930.

1,620,896. (See 1,134,820.) 1,639,708. (See Re. 17,107.)

1,650,603. W. D. Burton, Tension meter; 1,771,339, W. R. Martin, Portable tension indicator, filed Oct. 9, 1930, D. C., S. D. Calif. (Los Angeles), Doc. E S–53–J, *Martin-Decker Corp.* v. *O. B. Goldman* (*The Drillometer Co.*)

1,660,017, J. Schoenfeld, Switch plug, D. C., N. D. Calif. (San Francisco), Doc. E 2567–K, *J. Schoenfeld* v. *S. H. Kress & Co. et al.* Dismissed on stipulation Oct. 6, 1930.

1,669,640, B. C. Warlick, Indoor golf, filed Oct. 7, 1930, D. C., S. D. N. Y., Doc. E 55/27, *B. C. Warlick et al.* v. *J. A. Robinson.*

1,681,033, B. W. Freeman, Cut-out machine for shoe uppers, filed Oct. 10, 1930, D. C., S. D. Ohio, W. Div., Doc. E 707, *B. W. Freeman* v. *The W. H. Davis Die Co.*

1,681,484, 1,704,134, W. Kennedy, Gas heater, filed Oct. 9, 1930, D. C., S. D. N. Y., Doc. E 56/50, *W. Kennedy et al.* v. *E. Jackson, Inc.*

1,692,577, 1,734,830, R. R. Roth, Emergency repair link, included by counter claim Oct. 7, 1930, in suit filed Aug. 27, 1930, D. C. Del., Doc. E 816, *E. F. Slattery et al.* v. *Eureka Auto Chain Co.*

1,694,928. (See Re. 17,107.)

1,697,886. (See Re. 17,107.)

1,704,134. (See 1,681,484.) 1,711,430. (See Re. 17,107.)

1,716,896, E. E. Miller, Mud pump valve, filed Sept. 29, 1930, D. C., S. D. Calif., C. Div., Doc. E S–42–J, *E. E. Miller* v. *Hamer Oil Tool Corp. et al.*

1,718,716. (See Re. 17,107.)

1,721,015, J. Galbraith, Carving machine, filed Oct. 7, 1930, D. C. Minn., 4th Div., Doc. 1861, *J. N. Kirby* v. *Parten-Blomstrom Machinery Co.*

1,723,729, M. Goldberg, Applique fabric, filed Oct. 8, 1930, D. C., S. D. N. Y., Doc. E 56/46, *M. Goldberg* (*Dormont Co.*) v. *C. Armour & Bro., Inc.*

1,734,830. (See 1,692,577.)

1,744,338, A. B. Shaw, Tire valve, D. C., S. D. Calif. (Los Angeles), Doc. E R–2–J, *D. S. Shippey et al.* v. *Master Valve Mfg. Co. et al.* Decree pro confesso June 9, 1930.

1,754,063. (See 1,301,331.)

1,754,642, A. B. Modine, Heating unit; 1,769,707, same, Heat-exchange means, filed Oct. 8, 1930, D. C., E. D. Wis. (Milwaukee), Doc. 3014, *Modine Mfg. Co.* v. *Young Radiator Co.*

1,769,707. (See 1,754,642. 1,771,339. (See 1,650,603.)

Re. 13,932. (See 1,090,370.)

Re. 15,641, J. H. Emery, Artificial fruit and method of producing same, D. C., N. D. Ohio, E. Div., Doc. 2349, *J. H. Emery* v. *F. W. Woolworth Co.* Claims 6, 8, 11, and 13 held invalid; bill dismissed Oct. 11, 1930. Same, 2350, *J. H. Emery* v. *S. S. Kresge Co.* Decree as above.

Re. 17,107, J. A. Spencer, Sadiron; 1,448,240, same, Thermostat; 1,561,437, same, Electric heater; 1,602,510, same, Thermostatic control; 1,639,708, same, Thermostat; 1,697,886, same, Temperature-controlling apparatus; 1,711,430, same, Pilot cut-off gas burners; 1,718,716, same, Circuit-interrupting device; 1,481,021, L. K. Marshall, Temperature-controlled apparatus; 1,694,928, H. F. Rider, Thermostat, filed Oct. 14, 1930, D. C. Conn. (New Haven), Doc. E. 2088, *Spencer Thermostat Co. et al* v. *Southern New England Electric Co.*

Re. 17,817, E. A. Jones, Gas furnace, filed Oct. 11, 1930, D. C., N. D. Ohio, E. Div., Doc. 3532, *L. J. Mueller Furnace Co.* v. *The Bryant Heater & Mfg. Co.*

Des. 60,740 (*a*), L. Siderman, Stocking; Des. 67,920, Des. 70,307, W. E. Zander, same; 1,111,658, G. A. Landenberger, same; 1,134,749, same, Knitting machine, D. C. Del., Doc. E 734, *Schletter & Zander, Inc.* v. *Gotham Silk Hosiery Co., Inc.* Patents held valid and infringed Oct. 10, 1930.

Des. 60,740 (*b*), L. Siderman, Stocking; Des. 70,307, W. E. Zander, same, D. C., S. D. N. Y., Doc. E 47/378, *Schletter & Zander, Inc.*, v. *Gotham Silk Hosiery Co., Inc.* Consent and order of discontinuance Oct. 9, 1930.

Des. 60,740 (*c*), L. Siderman, Stocking; Des. 70,307, W. E. Zander, same; 1,111,658, G. A. Landenberger, same; 1,134,749, same, Knitting machine, D. C. Del., Doc. E 720, *Schletter & Zander, Inc.*, v. *Gotham Silk Hosiery Co., Inc.* Consent decree dismissing bill Oct. 10, 1930.

Des. 67,920. (See Des. 60,740 (*a*).)

Des. 70,307. (See Des. 60,740 (*a*) and (*b*) and (*c*).)

Des. 76,479, Hershkowits and Hershkowits, Trimming braid, D. C., S. D. N. Y., Doc. E 47/91, *P. Hershkowits et al.* v. *B. Gordon.* Decree for plaintiff (notice Oct. 3, 1930).

Des. 81,866, P. Cricchio, Lamp base, filed Oct. 8, 1930, D. C., S. D. N. Y., Doc. E 56/45, *Metropolitan Lamp Co., Inc.*, v. *Illuminating Novelties Corp.*

T. M. 208,852, W. Ireland, Inc., Nonalcoholic beverage, etc.; T. M. 210,881, Canadian Club Corp., Nonalcoholic maltless beverage, appeal filed Aug. 11, 1930, C. C. A., 3d Cir., Doc. 4475, *Canadian Club Corp.* v. *Canada Dry Ginger Ale, Inc.*

T. M. 210,881. (See T. M. 208,852.)

Adjudicated Patents

(C. C. A. N. J.) Van Keuren patent, No. 1,826,121, for lamp manufacture, *Held* invalid. *General Electric Co.* v. *Eisler*, 43 F.(2d) 319.

(C. C. A. N. J.) Mitchell and White patent, No. 1,453,594, for sealing-in machine, claims 1, 3, 5, 8, and 14 *Held* invalid. *Id.*

(C. C. A. N. J.) Mitchell and White patent, No. 1,453,595, for manufacture of incandescent electric lamps and similar articles, claim 7 *Held* invalid. *Id.*

(C. C. A. N. J.) Marshall patent, No. 1,475,192, for sealing-in machine, claims 2 and 6 *Held* invalid. *Id.*

(C. C. A. N. J.) Vreeland and Dyer patent, No. 1,593,735, for art of recording sounds, *Held* invalid. *Victor Talking Machine Co.* v. *Vreeland*, 43 F.(2d) 343.

(C. C. A. Okla.) Carter and Best patent, No. 1,609,158, for oil-well plug, *Held* invalid. *Eagle Picher Lead Co.* v. *Robinson Packer Co.*, 43 F.(2d) 284.

TRADE-MARKS

OFFICIAL GAZETTE, DECEMBER 9, 1930

[VOL. 401. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 282,923. J. W. & A. P. HOWARD COMPANY, Corry, Pa. Filed Apr. 24, 1929.



The words "Special Sole Leather" are disclaimed apart from the mark as shown in the drawing.
For Sole Leather.
Claims use since 1918.

Ser. No. 305,429. THE WHITNEY-ECKSTEIN SEED CO., Buffalo, N. Y. Filed Sept. 6, 1930.

PHOENIX

For Clover Seeds, Grass Seeds, and Seed Grains and Mixtures Thereof.
Claims use since July 1, 1930.

Ser. No. 305,478. CLINCHFIELD COAL CORPORATION, Dante, Va. Filed Sept. 9, 1930.



Applicant disclaims the words "Red Ash Coal" apart from the mark as shown.
For Coal.
Claims use since June 22, 1930.

Ser. No. 306,639. BLISS COAL COMPANY, Saginaw, Mich. Filed Oct. 11, 1930.

RED-FLASH

For Coal.
Claims use since January, 1930.

CLASS 2

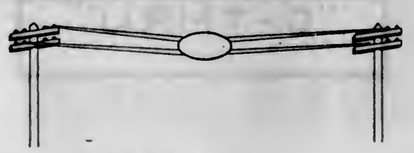
Receptacles

Ser. No. 290,958. BENNO Y. JACOBSON, New York, N. Y. Filed Oct. 11, 1929.



The horizontal lining on the drawing is for shading only.
For Drinking Flask Made of Base Metal and Rubber.
Claims use since Oct. 4, 1929.

Ser. No. 306,299. INDUSTRIAL PRODUCTS COMPANY, Philadelphia, Pa. Filed Oct. 1, 1930.



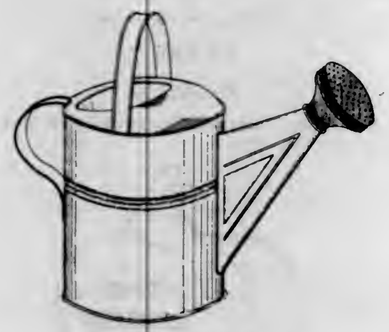
For Linemen's Tool Bags.
Claims use since Apr. 2, 1930.

Ser. No. 306,388. ELIZABETH ARDEN, INC., New York, N. Y. Filed Oct. 4, 1930.

Petite-Oboy

For Empty Compact Cases of Nonprecious Metal Ware for Containing Cosmetics and the Like.
Claims use since Jan. 1, 1927.

Ser. No. 306,908. WHEELING CORRUGATING CO., Wheeling, W. Va. Filed Oct. 18, 1930.



The trade-mark consists of red and green bands applied to the rose or sprinkler head, as shown in the drawing, which is lined for red and green. No claim is made to the representation of the watering pot per se.
For Sheet-Metal Watering Pots.
Claims use since Oct. 14, 1930.

Ser. No. 307,057. M. J. NEAHR & COMPANY, Chicago, Ill. Filed Oct. 22, 1930.

"C-THRU"

For Burlap Bags.
Claims use since Sept. 15, 1930.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 299,297. AMERICAN PROGRESS CO., Atlantic City, N. J. Filed Apr. 23, 1930.

JOL

For Powdered Cleaning Material in the Nature of Soap.
Claims use since Dec. 14, 1929.

Ser. No. 303,625. H. TH. BÖHME A. G., Chemnitz, Germany. Filed July 19, 1930.

Lanadin

For Hydrocarbons Which are Used as a Leather Dressing.
Claims use since Apr. 16, 1930.

Ser. No. 305,663. THE JARED HOLT COMPANY, Albany, N. Y. Filed Sept. 13, 1930.

Holt's Master Craftsman

For Shoe and Leather Oils, Dressings, and Polishes—Namely, Heel Balls, Brush Polish, Burnishing Wax, Burnishing Ink, Bottom Paint, Bottom Stain, Stitching Wax, Liquid Wax, Filling Wax, Leather Dressing, Shoe Dressing, Leather Polish, Shoe Polish, and Polishing Wax.
Claims use since Jan. 1, 1930.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 288,051. ARWELL PRODUCTS CO., Waukegan, Ill. Filed Aug. 3, 1929.

Arwellmist

For Insecticide, Moth Fumigant.
Claims use since Apr. 3, 1929.

Ser. No. 297,631. VICTOR W. TITUS, New York, N. Y. Filed Mar. 20, 1930.

Nancy Lee "Miracle Cream"

No claim is made to the word "Cream" apart from the mark as shown on the drawing.
For Massage Cream.
Claims use since June 15, 1928.

Ser. No. 298,302. ALLIED LABORATORIES INC., Chicago, Ill. Filed Apr. 3, 1930.



For Anti-Hog-Cholera Serum.
Claims use since Mar. 21, 1930.

Ser. No. 301,516. LOUIS SHABRIGHT, Rayland, Ohio. Filed May 28, 1930.

B.B.B.

The lining on the drawing is to indicate the color red, which is a material feature of applicant's mark.
For Kidney Medicine.
Claims use since Mar. 15, 1830.

Ser. No. 301,869. FABBIK CHEM. PHARM. PRÄPARATE DALLMANN & CO., Wiesbaden-Schierstein, Germany. Filed May 31, 1930.

EING. SCHUTZMARKE DER DALLMANN'SCHEN PRÄPARATE
KOLA
DALLMANN
„Dallkolat"
Dallmann & Co.
Wiesbaden-Schierstein

Applicant disclaims all the wording with the exception of "Dallmann," "Dallkolat," and "Dallmann & Co."
For Pharmaceutical Preparations—Namely, Kola Tablets and Kola Pastilles for Use as Stimulants for Physical and Mental Fatigue.
Claims use since Jan. 1, 1915.

Ser. No. 301,913. MARGARET HARMS, doing business as Harms and Doney Company, Evanston, Ill. Filed May 31, 1930.

GERMEPASSE

For Vaginal Suppositories.
Claims use since Nov. 16, 1929.

Ser. No. 304,774. MARCUS M. KLEIN, doing business as Klein Mfg. Co., Long Beach, Calif. Filed Aug. 19, 1930.

ZEMALEAVE

For Liquid Treatment for Skin Affections.
Claims use since Aug. 12, 1930.

Ser. No. 304,971. PIERRE PROCESS, INC., New York, N. Y. Filed Aug. 23, 1930.

nusheen

For Hair Rinses.
Claims use since Mar. 10, 1930.

Ser. No. 305,974. JOHN P. MACVARISH, doing business as Macvarish Manufacturing Company, Harrisburg, Pa. Filed Sept. 23, 1930.

Macvarish's
Re-wel
for Constipation

No claim being made to the exclusive use of the words "For Constipation" apart from the mark shown in the drawing.
For Medicine for Constipation.
Claims use since Aug. 1, 1930.

Ser. No. 305,987. FRED G. ERIC VON BENZ BRETHERTON, La Crescenta, Calif. Filed Sept. 23, 1930.

ERIC VON BENZ
TREATMENT

The applicant disclaims the word "Treatment" apart from the mark as shown in the accompanying drawing.
For Medicinal Preparation for Use as an Aid in Counteracting Acid in the Colon, to be Taken by Mouth or in Enema.
Claims use since Sept. 12, 1930.

Ser. No. 306,014. S. PHILIPPI, Scio, Oreg. Filed Sept. 24, 1930.

S. PHILIPPI



The photograph constituting the primary factor of the pictorial feature of the mark represented in the drawing is a draftsman's drawing of an actual photograph of the applicant.
For Leach and Worm Medicine for Animals.
Claims use since Aug. 15, 1930.

Ser. No. 306,337. CHRISTIAN F. LUITHLE, doing business as Kleer-Off Laboratory, New York, N. Y. Filed Oct. 2, 1930.

KLEER-OFF
"IT TAKES HAIR OUT"



No claim is made herein to the exclusive use of the phrase "It Takes Hair Out" apart from the mark shown.
For Depilatory.
Claims use since Aug. 28, 1930.

Ser. No. 306,414. NEWBERG & GORANSON, Brooklyn, N. Y. Filed Oct. 4, 1930.

ANTI RHEUMATIC
NEWGOR
SALVE

No claim is made to the words "Anti Rheumatic Salve" and "Trade Mark" apart from the mark shown. The lining on the drawing represents the color blue.
For Antirheumatic Salve.
Claims use since July 1, 1930.

Ser. No. 306,444. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany. Filed Oct. 6, 1930.

TRACHYLON

For Chemical Product Used for Felt and Straw Hat Stiffening and Straw Hat Varnish.
Claims use since Aug. 20, 1930.

Ser. No. 306,771. DAUB CHEMICAL COMPANY, Brooklyn, N. Y. Filed Oct. 15, 1930.

De-Ce NASAL JELLY

Registration of the words "Nasal Jelly" as shown in the drawing is not requested, being only descriptive and not capable of exclusive appropriation.
For Medicinal Nasal Jelly Inserted into the Nose as an Aid to Relieve the Discomfort of Head Colds and Congestion.
Claims use since Apr. 1, 1929.

Ser. No. 306,812. WILLIAM C. FELDER, doing business as Trichicide Chemical Company, Dallas, Tex. Filed Oct. 16, 1930.

TRICHICIDE

For Powder and Ointment for the Treatment of Athlete's Foot, Gym Foot, Dry Tetter, Jockey Itch, and Ringworm Infection.
Claims use since June 15, 1929.

Ser. No. 307,042. CHANEL, INC., New York, N. Y. Filed Oct. 22, 1930.

SYCOMORE

For Perfume.
Claims use since Oct. 1, 1930.

Ser. No. 307,063. SOCIÉTÉ ANONYME M. NAEF & CIE, Geneva, Switzerland. Filed Oct. 22, 1930.

«LILANTHÈME»

For Artificial and Synthetical Perfumes, Essential Oils.
Claims use since Aug. 1, 1930.

Ser. No. 307,064. SOCIÉTÉ ANONYME M. NAEF & CIE, Geneva, Switzerland. Filed Oct. 22, 1930.

METHYLIA

For Artificial and Synthetical Perfumes, Essential Oils.
Claims use since July 1, 1930.

Ser. No. 307,090. PHILIP BRUNO, doing business as Westchester Pharmacal Co., Tuckahoe, N. Y. Filed Oct. 23, 1930.

VINC-O-NOL

For Antiseptic Dentifrice, Mouth Wash, and Gargle.
Claims use since Mar. 1, 1927.

Ser. No. 307,139. HEALTH PRODUCTS CORPORATION, Newark, N. J. Filed Oct. 24, 1930.



The drawing is lined to designate shading only.
For Cod-Liver-Oil Concentrate.
Claims use since Sept. 10, 1930.

Ser. No. 307,211. MARI-TRUDEAU, INCORPORATED, St. Paul, Minn. Filed Oct. 27, 1930.

PITOMA

For Cosmetics—Namely, a Face Cream.
Claims use since Oct. 8, 1924.

Ser. No. 307,265. THE CRYSTAL CHEMICAL COMPANY, INC., Bronx, N. Y. Filed Oct. 28, 1930.

BOULEVARD

For Face Powders, Rouges, Face Creams, and Lip Stick.
Claims use since May 15, 1930.

Ser. No. 307,348. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Oct. 30, 1930.

ALKANOL

For Dyeing Assistant—i. e., a So-Called Wetting-Out Agent Which, When Incorporated in a Dyeing Bath, Causes Greater Penetration of the Dyestuff Involved.
Claims use since Aug. 21, 1930.

Ser. No. 307,424. ROYAL BAKING POWDER COMPANY, New York, N. Y. Filed Oct. 31, 1930.



Applicant makes no claim to the representation of a label as such, nor to the exclusive use of any of the wording shown except "Royal" and "Baking Powder Co.'s," other than in connection with the trade-mark as shown.
For Baking Powder.
Claims use since July 4, 1930.

Ser. No. 307,467. ARTHUR J. BAFALIS, doing business as The Dekola Co., Manchester, N. H. Filed Nov. 3, 1930.

DEKOLA

For Liquid Preparation Used as a Stomachic, Tonic, Diuretic, and Laxative.
Claims use since July 10, 1927.

CLASS 9

Explosives, Firearms, Equipments, and Projectiles

Ser. No. 307,386. THE CONESTOGA CORPORATION, Bethlehem, Pa. Filed Oct. 31, 1930.

BANGSITE

For Ammunition for Toy Cannon and Firearms.
Claims use since Dec. 1, 1917.

CLASS 12

Construction Materials

Ser. No. 302,451. AIR-O-CEL, INC., Detroit, Mich. Filed June 14, 1930.



For Pocket-Forming Elements of Pasteboard or Other Fibrous Material for Lining and Insulating Building Walls.
Claims use since Apr. 2, 1928.

Ser. No. 303,972. LANDON R. MASON, doing business as Universal Asphalt Co., Watson, Calif., assignor to Charles K. Hewes, Los Angeles, Calif. Filed July 29, 1930.

UNIMAC
REENFORCED ASPHALT

Exclusive use of the words "Reinforced Asphalt" is disclaimed apart from the other features of the mark.
For Asphalt Cementing Agent for Cementing Coarse or Fine Stone Aggregate or Solid Aggregates for Paving Roads or Other Surface Courses and Also Employed in the Manufacture of Roofing Material, Battery-Sealing Compounds, Battery Boxes, and the Like.
Claims use since June 12, 1930.

Ser. No. 304,001. CONTINENTAL STEEL CORPORATION, Kokomo and Indianapolis, Ind., and Canton, Ohio. Filed July 30, 1930.

DRAINRITE

For Metal Roofing.
Claims use since July 16, 1930.

Ser. No. 306,378. THE WHEELER, OSGOOD COMPANY, Tacoma, Wash. Filed Oct. 3, 1930.

ORIENTA

For Millwork—Namely, Doors, Sashes, Frames, Ceiling, and Wainscoting.
Claims use since Aug. 1, 1930.

Ser. No. 306,486. CORHART REFRACTORIES COMPANY, Louisville, Ky. Filed Oct. 7, 1930.

ELECTROPLAST

For Building Cement.
Claims use since June 1, 1930.

Ser. No. 306,813. FORD ROOFING PRODUCTS COMPANY, INCORPORATED, Chicago and Vandalia, Ill., and York, Pa. Filed Oct. 16, 1930.

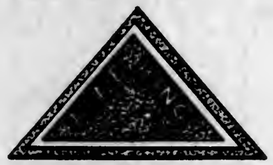
Gal-va-nite

For Composition Roofing and Composition Shingles.
Claims use since 1903.

CLASS 13

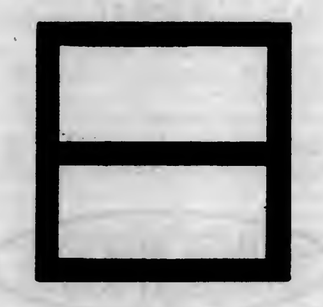
Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 302,629. MARK CURATOLO, doing business as Unique Metal Products Co., New York, N. Y. Filed June 20, 1930.



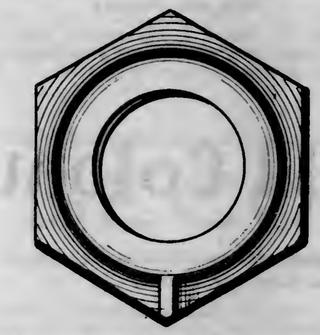
For Dancing-Tap Attachment for Shoes.
Claims use since Apr. 15, 1930.

Ser. No. 306,603. WILLIAM H. HASKELL MANUFACTURING COMPANY, Pawtucket, R. I. Filed Oct. 9, 1930.



For Machine Bolts and Stud Bolts Made of S. A. E. 3135 Steel.
Claims use since June 15, 1929.

Ser. No. 306,604. WILLIAM H. HASKELL MANUFACTURING COMPANY, Pawtucket, R. I. Filed Oct. 9, 1930.



The trade-mark consists in a radially-raised rib extending from one angle of the hexagonal nut to the inner edge of the chamfered portion thereof. The representation of a nut per se, disclosed in the drawing, is hereby expressly disclaimed, applicant claiming only the radial raised rib above described.
For Hexagonal Chamfered, Faced, Heat-Treated Nuts, Known as Class A of the American Society of Testing Materials.
Claims use since Feb. 1, 1929.

Ser. No. 307,113. THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn. Filed Oct. 23, 1930.

RUSCO

For Rivets.
Claims use since Feb. 8, 1928.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 297,609. MCGEAN CHEMICAL COMPANY, Cleveland, Ohio. Filed Mar. 20, 1930.

Besplate

For Electroplating Anodes.
Claims use since Dec. 14, 1929.

Ser. No. 303,557. THE SUPERIOR SHEET STEEL COMPANY, Canton, Ohio.. Filed July 16, 1930.

Superior
Galvannealed

No claim is made to the exclusive use of the word "Superior" apart from the mark shown in the drawing.
For Coated Iron or Steel Sheets.
Claims use since March, 1927.

CLASS 15

Oils and Greases

Ser. No. 291,575. HENRY L. PRESTHOLDT, doing business as Old Colony Gas and Oil Co., Minneapolis, Minn. Filed Oct. 25, 1929.

Old Colony

For Gasoline.
Claims use since Nov. 8, 1926.

Ser. No. 298,766. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del. Filed Apr. 12, 1930.



For Refined, Semirefined, and Unrefined Oils Made from Petroleum, Both with and without Admixture of Animal, Vegetable, or Mineral Oils for Illuminating, Burning, Power, Fuel, and Lubricating Purposes, and Lubricating Greases.
Claims use since Mar. 10, 1930.

CLASS 16

Paints and Painters' Materials

Ser. No. 302,799. MAX ABELMAN, doing business as M. Abelman Co., Boston, Mass. Filed June 25, 1930.

EMAY

For Paints in Dry, Paste, Ready-Mixed Form, and Colors Ground in Oil.
Claims use since Oct. 1, 1929.

Ser. No. 304,840. VALENTINE & COMPANY, New York, N. Y. Filed Aug. 20, 1930.



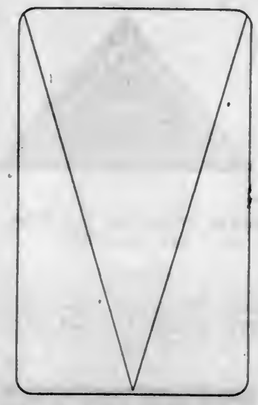
The drawing is lined to indicate the colors green, yellow, red, and blue, which are claimed as features of the mark, no claim being made to the representation of a label.
For Ready-Mixed Paints.
Claims use since June 1, 1930.

Ser. No. 305,290. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y. Filed Sept. 3, 1930.

TRIM

For Polish for Furniture, Automobiles, and Other Painted, Varnished, Lacquered, or Enameled Surfaces.
Claims use since Aug. 1, 1930.

Ser. No. 305,292. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y. Filed Sept. 3, 1930.



For Polish for Furniture, Automobiles, and Other Painted, Varnished, Lacquered, or Enameled Surfaces.
Claims use since Aug. 1, 1930.

Ser. No. 306,321. NEW ORLEANS PAINT & COLOR COMPANY, INCORPORATED, New Orleans, La. Filed Oct. 2, 1930.

ZINCOPONE

For Ready-Mixed Paints and Varnishes.
Claims use since Oct. 15, 1928.

Ser. No. 307,066. GERMAIN H. STADELMAN, Jamaica, N. Y. Filed Oct. 22, 1930.

AUKA

For Furniture, Floor, and Automobile Polish.
Claims use since May 5, 1930.

Ser. No. 307,430. SEARS, ROEBUCK AND CO., doing business as Illinois Paint Works, Chicago, Ill. Filed Oct. 31, 1930.

CONTENDER

For Ready-Mixed House Paints for Interior and Exterior Use, Ready-Mixed Barn Paint, Shingle Stain, Ready-Mixed Porch Paint, Paint Enamel, Enamel Undercoats, Kalsomines, Lacquers, Varnish, Varnish Undercoats, Paint and Varnish Removers, Putty and Wood Fillers, Brush Lacquer Thinner, and Automobile Enamel.
Claims use since Aug. 1, 1930.

CLASS 17

Tobacco Products

Ser. No. 296,453. LÉON SPIERER, Trieste, Italy. Filed Feb. 24, 1930.

ISOTONGA

For Tobacco Leaves Packed in Bales.
Claims use since Jan. 13, 1930.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 285,754. NOAH P. SHER, Rochester, N. Y. Filed June 18, 1929.

NOAH'S ARK

For Vehicle Parts and Accessories—Namely, Seat Shock Absorbers, Windshield-Wiper Arms, Side Awnings, Gear-Shift Balls, Hanger Bars, Running Boards, Spindle Body Rims, Fenders, Spindle Arms, Tops, Lace-On and Pedal Boots, Front and Rear Fenders, Headlight and Steering-Column Braces, Gas Tanks, Dust and Valve Caps, Hub and Radiator Caps, Luggage and Spare-Tire Carriers, Automatic Windshield Cleaners, Radiator Hoods, Luggage Covers, Seat and Slip Covers, Rear and Side Curtains, Wind Deflectors, Radiator Emblems, Steering-Wheel Grips, License-Plate Holders, Auto Rattle Devices, Rim Lugs, Auto Mirrors, Kick and Stop Plates, Bow Protectors, Robe Rails, Top Recovers, Foot Rests, Sedan Shades, Hub Shields, Brake Shoes, Shutters, Collision Shock Absorbers, Front and Rear Springs, Baby Awnings for Use in Automobile, Sun Visors, Steering Wheels.
Claims use since June 1, 1925.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 268,399. SIMPLEX EQUIPMENT COMPANY, INC., New Haven, Conn., and New York, N. Y. Filed June 20, 1928.

SECO

For Electric Generators, Storage Batteries, Generator Regulators, Voltage Regulators, Switchboards, Panel Boards, Pole-Changing Devices, and Generator Mountings and Suspensions, and Electric-Lighting Systems and Equipments, Not Including Lamps, for Railway Vehicles.
Claims use since Mar. 1, 1928.

Ser. No. 297,617. THE PALMER ELECTRIC & MANUFACTURING CO., Waltham, Mass. Filed Mar. 20, 1930.

PALMER
ANTI ARC
SWITCH

The words "Anti Arc Switch" are disclaimed apart from the mark shown in the drawing.
For Electric Switches of the Manually-Operated Enclosed and Magnetically-Operated Types.
Claims use since Mar. 10, 1930.

Ser. No. 305,755. INSULINE CORPORATION OF AMERICA, New York, N. Y. Filed Sept. 16, 1930.

ICA
VARIOTONE
TONE CONTROL

The words "Variotone" and "Tone Control" are disclaimed apart from the other features of the mark as shown on the drawing.
For Tone-Control Devices for Electrical Sound-Producing Instruments—Namely, Radio Receiving Sets and Electrically-Amplified Phonographs.
Claims use since Feb. 25, 1930.

Ser. No. 305,785. MICRO PRODUCTS CO., Bartonville, Peoria, Ill. Filed Sept. 17, 1930.

MICROMETER PRECISION MICRO-WELD

No claim is made to the words "Micrometer" and "Precision" apart from the mark as shown in the drawing.
For Electric Welders.
Claims use since July 1, 1929.

Ser. No. 306,112. WARE MANUFACTURING CORPORATION, Trenton, N. J. Filed Sept. 26, 1930.

BANTAM

For Radio Receiving Sets.
Claims use since Sept. 23, 1930.

Ser. No. 306,402. RUDOLPH A. KRAUSE, Cedar Bluffs, Nebr. Filed Oct. 4, 1930.

LE-RI

For Electrically-Operated Direction-Indicating Signals for Motor Vehicles.
Claims use since Sept. 12, 1929.

Ser. No. 306,872. SUN GLOW INDUSTRIES, INC., Mansfield, Ohio. Filed Oct. 17, 1930.

SUN GLOW MELODY CHEST

For Radio Receiving Sets.
Claims use since Oct. 1, 1930.

Ser. No. 306,964. FRANK J. REICHMANN, Chicago, Ill. Filed Oct. 20, 1930.

Chromatrope

For Loud-Speakers and Radio Receiving Sets.
Claims use since May 1, 1930.

Ser. No. 307,130. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill. Filed Oct. 24, 1930.

WAFFLEWITCH

For Electric Waffle Irons.
Claims use since Sept. 1, 1930.

Ser. No. 307,132. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill. Filed Oct. 24, 1930.

TOASTWITCH

For Electric Toasters.
Claims use since Sept. 1, 1930.

Ser. No. 307,133. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill. Filed Oct. 24, 1930.

Sunbeam

For Electrical Food Mixers, Electric Waffle Irons, and Electric Clocks.
Claims use since Sept. 1, 1930.

Ser. No. 307,156. DIEHL MANUFACTURING COMPANY, Elizabeth, N. J. Filed Oct. 25, 1930.

VENTILETTE

For Electric Fans.
Claims use since Oct. 9, 1930.

Ser. No. 307,205. ORVILLE G. HALLIBURTON, Bridgeport, Conn. Filed Oct. 27, 1930.

SWIV-ALL

For Electrical Connecting Plugs.
Claims use since Feb. 8, 1930.

CLASS 22

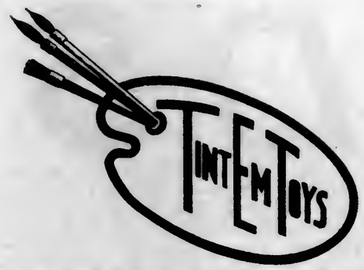
Games, Toys, and Sporting Goods

Ser. No. 295,816. THE J. & E. STEVENS COMPANY, Cromwell, Conn. Filed Feb. 8, 1930.

Stevens Instructer

For Repeating Toy Cap Pistols.
Claims use since Jan. 18, 1930.

Ser. No. 297,305. GREY IRON CASTING COMPANY, Mount Joy, Pa. Filed Mar. 14, 1930.



No claim is made to the word "Toys" nor to the representation of the palette and brushes apart from the mark as shown.
For Toy Painting Sets and Objects to be Painted.
Claims use since Feb. 10, 1930.

Ser. No. 302,511. NORTON C. LYON, doing business as Cumberland Hickory Co., Nashville, Tenn. Filed June 17, 1930.



Applicant disclaims "Cumberland Hickory Co." and "Brand" apart from the mark as shown on the drawing.
For Golf Shafts, Golf Heads, Baseball Bats, Bows and Arrows, Toy Golf Sets, and Toy Tool Sets.
Claims use since Sept. 1, 1929.

Ser. No. 303,821. NEMESIO M. RAMOS, San Francisco, Calif. Filed July 25, 1930.



The words "Game Supreme," "For the Whole Family," and "Trade Mark" are disclaimed apart from the mark as shown.
For Game Boards Having a Series of Pockets for Playing a Marble Game.
Claims use since May 1, 1930.

Ser. No. 304,766. WM. GIBSON & CO., LTD., Kinghorn, Scotland. Filed Aug. 19, 1930.

Ruffex

For Golf Sticks and Metal Heads Therefor.
Claims use since Apr. 4, 1930.

Ser. No. 307,463. J. C. PENNEY COMPANY, Wilmington, Del. Filed Oct. 31, 1930.

FORE MOST

For Golf Balls, Golf Clubs, and Golf Bags.
Claims use since Nov. 6, 1929.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 299,947. LEON J. BARRETT, doing business as The Leon J. Barrett Company, Millbury, Mass. Filed May 5, 1930.



Applicant disclaims any exclusive right to the word "Centrifugals" apart from the mark shown in the drawing.
For Oil Extractors, Washers, and Dryers.
Claims use since Jan. 1, 1925.

Ser. No. 305,104. THE FERRO MACHINE & FOUNDRY COMPANY, Cleveland, Ohio. Filed Aug. 28, 1930.

FERRO

For Liquid Pumps.
Claims use since June, 1930.

Ser. No. 305,606. DIESEL AND DRAKE, Los Angeles, Calif. Filed Sept. 12, 1930.



No claim is made to the words "Automatic Bread Box" apart from the mark shown. The lining in the drawing of the mark is for shading only.

For Combined Bread Boxes and Slicers.

Claims use since May 2, 1930.

Ser. No. 305,872. THE NEW IDEA SPREADER COMPANY, Coldwater, Ohio. Filed Sept. 19, 1930.

NEW IDEA

For Manure Spreaders, Cultivators, Land Rollers, Clod Crushers, Soil Pulverizers, Garden Plows, Shovel Plows, Weeders, Feed Cutters, Small Garden Seeders, Small Garden Cultivators, Spring-Tooth Harrows, Peg-Tooth Harrows, Disk Harrows, Plows, Planters, Feed Mills, Transplanters, Corn Shredders, Corn Huskers, Corn Pickers, Combined Corn Pickers and Huskers, Corn Harvesters, Corn Combines, Corn Shellers, Grain Elevators, Loaders for Hay and the Like, Rakes for Hay and the Like, Balers for Hay, Cornstalks, and the Like; Lime and Marl Sowers, Internal-Combustion Engines, Lawn Mowers, Horsepowers, Speed Jacks, Pump Jacks, and Hoists for Tilting Wagons.

Claims use since December 15, 1899, on manure spreaders, cultivators, land rollers, clod crushers, soil pulverizers, garden plows, shovel plows, weeders, feed cutters, small garden seeders, small garden cultivators, spring-tooth harrows, peg-tooth harrows, disk harrows, plows, and planters; since February 1, 1923, on transplanters; since October 1, 1923, on corn shredders and corn huskers; since November 1, 1926, on corn pickers, combined corn pickers and huskers, corn harvesters, and corn combines; since August 1, 1928, on lime and marl sowers; since April 1, 1930, on feed mills, corn shellers, grain elevators, loaders for hay and the like, rakes for hay and the like, balers for hay, cornstalks, and the like, lawn mowers, horsepowers, speed jacks, pump jacks, and hoists for tilting wagons; and since August 1, 1930, on internal-combustion engines.

Ser. No. 306,057. HANDY GOVERNOR CORPORATION, Detroit, Mich. Filed Sept. 25, 1930.



For Governors and Oil Filters for Internal-Combustion Engines.

Claims use since June 4, 1929.

Ser. No. 306,609. LINK-BELT COMPANY, Chicago, Ill. Filed Oct. 10, 1930.

DS

For Take-Ups, Screw Take-Ups, and Parts Thereof, for Use in Connection with Taking the Slack Out of and Tensioning Chains and Belts Used in Connection with Elevators and Conveyors of the Chain and Belt Type and for Taking Up Slack in Any Belt or Conveyor and is Moved Laterally by the Take-Up Mechanism for Taking Up Slack.

Claims use since January, 1927.

Ser. No. 306,611. MENASCO MOTORS, INC., Los Angeles, Calif. Filed Oct. 10, 1930.

PRIVATEER

For Internal-Combustion Engine Especially Designed for Use as Aeroplane Motors.

Claims use since June 5, 1930.

Ser. No. 306,612. MENASCO MOTORS, INC., Los Angeles, Calif. Filed Oct. 10, 1930.

PICAROON

For Internal-Combustion Engine Especially Designed for Use as Aeroplane Motors.

Claims use since June 5, 1930.

Ser. No. 306,613. MENASCO MOTORS, INC., Los Angeles, Calif. Filed Oct. 10, 1930.

SWASHBUCKLER

For Internal-Combustion Engine Especially Designed for Use as Aeroplane Motors.

Claims use since June 5, 1930.

Ser. No. 306,816. THE JEFFREY MANUFACTURING CO., Columbus, Ohio. Filed Oct. 16, 1930.

FLEXTOOTH

For Pulverizers and Crushers—Namely, Rotary Swing Hammer Machines.

Claims use since July 3, 1930.

Ser. No. 306,817. THE JEFFREY MANUFACTURING CO., Columbus, Ohio. Filed Oct. 16, 1930.

ARCSHEAR

For Mining Machines—Namely, Machines Adapted to Cut Kerfs in Mine Walls.

Claims use since Dec. 19, 1929.

Ser. No. 306,984. THE WATERBURY TOOL COMPANY, Waterbury, Conn. Filed Oct. 20, 1930.



The lined background shown in the drawing and the stippling in the arrows thereof are not intended to represent colors, but are simply intended to indicate contrasts.

For Hydraulic Variable-Speed Gears and Parts Therefor.

Claims use since Aug. 11, 1930.

Ser. No. 307,461. STOWE & WOODWARD COMPANY, Newton Upper Falls, Mass. Filed Nov. 1, 1930.

STONITE

For Rolls for Machinery.

Claims use since Sept. 29, 1930.

CLASS 24

Laundry Appliances and Machines

Ser. No. 306,660. PRIMA MANUFACTURING COMPANY, INC., Sidney, Ohio. Filed Oct. 11, 1930.

Paramount

For Domestic Washing Machines.

Claims use since July 7, 1930.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 306,732. EASTMAN KODAK COMPANY, Rochester, N. Y. Filed Oct. 14, 1930.

KODATOY

For Motion-Picture Projectors.

Claims use since Sept. 15, 1930.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 306,786. CHAS. SCHWARTZ & SON, Washington, D. C. Filed Oct. 15, 1930.

Gem O' My Heart

For Finger Rings, Lockets, Cigarette Cases, Jewel Boxes, Cuff Buttons, Cuff Links, Pins, Mesh Bags, Necklaces, Belt Buckles, Hand Bags, Cardcases, Match Boxes, Sterling Flasks, Scarf Pins, Lavallières, Brooches, Bracelets, Collar Buttons, Earrings, Tie Clasps, Fraternity Emblems, Brushes, Mirrors, Manicure Sets, Purses, Nail Files, Nail Polishers, Studs, Eyeglass Cases, Lingerie Clasps, Hairbrushes, Guard Chains, Watch Fobs, Cigar Cutters, Cigarette Holders, Corkscrews, Key Chains and Rings, Pencils, Silver Tobacco Cases, Knives, Forks, Spoons, Buttons, Cups, Combs, Napkin Rings, Rattles, Safety Pins, Shoe Buckles, Ear Studs, Coin Holders, Cologne Bottles, Watch Chains, Salt and Pepper Shakers; Ivory Jewelry and Dresser Sets Consisting of Combs, Brushes, Manicure Sets, Vanity Cases, Puff Boxes, Mirrors, and Picture Frames Partially Constructed of Precious and/or Semiprecious Metal, and College Emblems.

Claims use since Oct. 4, 1930.

CLASS 31

Filters and Refrigerators

Ser. No. 301,665. MAJESTIC HOUSEHOLD UTILITIES CORPORATION, Chicago, Ill. Filed May 29, 1930.

Majestic
FOOD PRESERVER

Applicant disclaims "Food Preserver" except as associated with the word "Majestic."

For Electric Refrigerators and Parts Thereof.

Claims use since May 13, 1930.

Ser. No. 301,666. MAJESTIC HOUSEHOLD UTILITIES CORPORATION, Chicago, Ill. Filed May 29, 1930.

Majestic
ICE MAKER

Applicant disclaims "Ice Maker" except as associated with the word "Majestic."

For Electric Refrigerators and Parts Thereof.

Claims use since May 13, 1930.

CLASS 32

Furniture and Upholstery

Ser. No. 291,128. HECTOR MACKNIGHT, East Orange, N. J., assignor to Cornelia Canfield. Filed Oct. 16, 1929.

TOILETIDY

For Bathroom Cabinets.

Claims use since Sept. 1, 1929.

Ser. No. 291,364. THE SPRINGFIELD MATTRESS COMPANY, Springfield, Ill. Filed Oct. 21, 1929.

SPRINGFIELD MATTRESSES
The Springfield Mattress Co.
Springfield, Illinois
THE QUALITY LINE

No claim being made to the words "Springfield Mattresses Springfield Illinois The Quality Line" apart from the mark shown in the drawing.
For Mattresses and Box Springs.
Claims use since Sept. 20, 1929.

Ser. No. 307,390. EGAN-LUTH BED CO. INC., Buffalo, N. Y. Filed Oct. 31, 1930.

"Nu-Life"

For Mattresses and Box Springs.
Claims use since July 18, 1930.

CLASS 33

Glassware

Ser. No. 283,279. JENAER GLASWERK SCHOTT & GEN., Jena, Germany. Filed Apr. 30, 1929.

Suprax

For Raw Glass for Optical Manufacture, Plain Laboratory and Household Glass Vessels, Glass Tubes, Glass Rods, Glass Plates.
Claims use since 1911.

Ser. No. 302,088. THOMA GLASS INC., Fairfield, Iowa. Filed May 31, 1930.

"FIREPOL"

The drawing is lined to indicate the color blue.
For Glass.
Claims use since Feb. 1, 1930.

CLASS 34

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus

Ser. No. 299,813. B. F. STURTEVANT COMPANY, Hyde Park, Boston, Mass. Filed May 1, 1930.

FILTICOOLER

For Air-Conditioning Apparatus for Varying the Moisture Content of the Air.
Claims use since Apr. 12, 1930.

Ser. No. 304,629. PARAGON KÖL-MASTER CORPORATION, Oregon, Ill. Filed Aug. 14, 1930.

KÖL-MASTER

For Automatic Coal Burners and Stokers.
Claims use since Feb. 15, 1930.

Ser. No. 304,801. THE COLEMAN LAMP AND STOVE COMPANY, Wichita, Kans. Filed Aug. 20, 1930.

INSTA-MATIC

For Gasoline-Burning Lamps, Lanterns, Radiant Heaters, and Stoves.
Claims use since Apr. 17, 1930.

Ser. No. 306,650. HARRY M. KOENIG, Milwaukee, Wis. Filed Oct. 11, 1930.

PEEK-A-BOO

For Metal and Fibre Lamp Shades.
Claims use since Sept. 15, 1930.

Ser. No. 306,836. PHILLIPS & BUTTORFF MFG. CO., Nashville, Tenn. Filed Oct. 16, 1930.

ENTERPRISE

For Gas Ranges, Gas Cookers, Gas Hot Plates, Gas Circulating Heaters or Furnaces, and Gas Radiant Heaters.
Claims use since January, 1929.

Ser. No. 307,335. WATROLA CORPORATION, LTD., San Francisco, Calif. Filed Oct. 29, 1930.

Watrola

For Gas Water Heaters.
Claims use since Oct. 20, 1930.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 303,051. GRATON & KNIGHT COMPANY, Worcester, Mass. Filed July 2, 1930.

GRATON AND KNIGHT

Applicant claims ownership of registration #276,980 effected Nov. 4, 1930, under the 10-year proviso clause of the act of Feb. 20, 1905.
For Machinery Belting, Diaphragms, Discs, Gaskets, Washers, and Packing of Leather, Rubber, Fabric, and Combinations Thereof; Rubber and/or Rubber and Fabric Hose and Tubing.
Claims use since Jan. 13, 1928, on leather goods; since Apr. 25, 1928, on rubber goods; and the words "Graton" and "Knight" have been used since 1851.

Ser. No. 303,265. CHICAGO PNEUMATIC TOOL COMPANY, New York, N. Y. Filed July 7, 1930.

CHICAGO PNEUMATIC

Applicant claims ownership of registration #133,226 dated July 20, 1920. No claim is made to exclusive use of the words "Chicago" and "Pneumatic" apart from the mark shown by the drawing.
For Gaskets of Rubber or Rubber Composition, High-Pressure Hose Made of Rubber Combined with Cotton with the Interior Lining of Rubber, Heavier Than an Ordinary Hose, Braided Fabric Hose, Duck Hose, and a Wire-Wound Hose Made of Rubber Combined with Cotton with the Interior Lining of Rubber Made Heavier Than Ordinary Hose and the Hose Wrapped with Wire.
Claims use since May 1, 1919.

Ser. No. 306,213. CHARLES LAURENCE WILLIS, New York, N. Y. Filed Sept. 29, 1930.

KERKO TRADE MARK PACKING

No claim being made to the exclusive use of the words "Trade Mark" and "Packing" apart from the mark shown on the drawing.
For Packing of Various Sizes in Lengths, Spiraled or Coiled, Also Cut or Moulded Rings, for Packing Rods or Stuffing Boxes of Engines or Pumps.
Claims use since November, 1911.

Ser. No. 307,222. THE SIMPLEX PISTON RING CO. OF AMERICA, INC., Cleveland, Ohio. Filed Oct. 27, 1930.

PANTHER

For Piston Rings.
Claims use since Oct. 22, 1930.

Ser. No. 307,318. L. H. GILMER CO., Philadelphia, Pa. Filed Oct. 29, 1930.

Speedage

For Woven Belts.
Claims use since August, 1929.

CLASS 36

Musical Instruments and Supplies

Ser. No. 304,274. GEORGE C. DIVER, doing business as Geo. C. Diver Music Co., Chicago, Ill. Filed Aug. 6, 1930.

GOLD STAR

For Band and Wind Musical Instruments Consisting of Trombones, Horns, Mellophones, Sousaphones, Saxophones, Cornets, Trumpets, and Clarionets.
Claims use since June 1, 1924.

CLASS 37

Paper and Stationery

Ser. No. 300,537. NATIONAL SELECTOGRAPH CORPORATION, San Francisco, Calif. Filed May 14, 1930.

For Index Cards, Cards and Forms Used to Carry Record Data Thereon.

SELECTOGRAPH

Claims use since 1918.

Ser. No. 307,157. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J. Filed Oct. 25, 1930.

BOLD FACE

For Pencils.
Claims use since Sept. 10, 1930.

Ser. No. 307,185. UNITED WALL PAPER FACTORIES, INC., Jersey City, N. J. Filed Oct. 25, 1930.

EN-DURAL

For Wall Paper.
Claims use since Aug. 20, 1930.

CLASS 38

Prints and Publications

Ser. No. 288,747. HOMES PERMANESQUE OF AMERICA, INC., Cleveland, Ohio. Filed Aug. 20, 1929.

PERMANESQUE

For Plans and Specifications for Houses, Books, and Printed Matter Illustrating and Describing Houses and Photographs and Prints Illustrating Houses.
Claims use since Apr. 1, 1928.

Ser. No. 295,955. MAYFLOWER'S LOG, INC., Washington, D. C. Filed Feb. 12, 1930.

THE
WASHINGTONIAN
THE MAGAZINE OF THE NATIONAL CAPITAL

The words "The Magazine of the National Capital" appearing on the drawing are hereby disclaimed by the applicant apart from the mark shown.
For Regular Monthly Periodical.
Claims use since Jan. 1, 1929.

Ser. No. 298,916. TURNER & PORTER, INC., Buffalo, N. Y. Filed Apr. 15, 1930.

PRINTCRAFT

PERSONALS

For Printed Greeting Cards for Personal and Business Use.
Claims use since August, 1929.

Ser. No. 299,217. NEWSPAPER NATURE FEATURES, INC., Cleveland, Ohio. Filed Apr. 21, 1930.

"DOT and DICK in NATURELAND"

For Periodically-Issued Set of Nature Cartoons Published for Use by Newspapers.
Claims use since Apr. 14, 1930.

Ser. No. 304,121. THE ASSOCIATED NEWSPAPERS, New York, N. Y. Filed Aug. 2, 1930.

KEEPING UP WITH THE JONESES

For Series of Cartoons.
Claims use since August, 1918.

Ser. No. 306,312. THE GAGE PUBLISHING COMPANY, INC., New York, N. Y. Filed Oct. 2, 1930.

Gage
Electrical Retailers
Encyclopedia

For Periodical.
Claims use since January, 1927.

Ser. No. 306,802. SIGMA DELTA CHI, Chicago, Ill. Filed Oct. 15, 1930.

THE Quill
A MAGAZINE FOR WRITERS, EDITORS, AND PUBLISHERS

For a Monthly Magazine for Writers, Editors, and Publishers.
Claims use since Feb. 1, 1910.

Ser. No. 307,169. THE NATIONAL BANK OF THE REPUBLIC OF CHICAGO, Chicago, Ill. Filed Oct. 25, 1930.

CHECKING—SAVINGS ACCOUNT
TWO IN ONE

For Periodical Publication.
Claims use since August, 1929.

Ser. No. 307,197. ATLAS PUBLISHING COMPANY, INC., New York, N. Y. Filed Oct. 27, 1930.

METALS

For Monthly Magazine.
Claims use since July 21, 1930.

CLASS 39

Clothing

Ser. No. 298,663. RUBIN BROS. FOOT-WEAR, Long Island City, N. Y. Filed Apr. 10, 1930.

AMERICAN BABIES

For Leather Shoes.
Claims use since Jan. 16, 1929.

Ser. No. 298,888. CHAS. DOUGLIS-MACK CO. INC., New York, N. Y. Filed Apr. 15, 1930.

STABILITY BRAND

No claim being made to the exclusive use of the word "Brand" apart from the mark shown in the drawing.
For Men's, Boys', and Youths' Two-Piece Suits—Viz, Coats and Trousers; Three-Piece Suits—Viz, Coats, Vests, and Trousers; Four-Piece Suits—Viz, Coats, Vests, and Two Pairs of Trousers; and Coats, Vests, and Trousers Separately.
Claims use since Apr. 5, 1930.

Ser. No. 299,328. B. KUPPENHEIMER & CO. INC., Chicago, Ill. Filed Apr. 28, 1930.



For Men's and Boys' Ready-to-Wear Coats, Vests, Trousers, and Overcoats.
Claims use since Feb. 25, 1930.

Ser. No. 302,450. MORRIS ZACHAROFF, New York, N. Y. Filed June 14, 1930.



Applicant disclaims the right to the exclusive use of the descriptive phrase "Built as Nature Intended" and also the pictorial representation of the shoe except in the particular arrangement and association shown in the drawing.
For Shoes Constructed of Leather, Rubber, or Fabric or Combinations of These Materials.
Claims use since June 3, 1930.

Ser. No. 304,452. THE JOSEPH ENGEL-COHEN CO., INC., New York, N. Y. Filed Aug. 11, 1930.

"FAB-LAPAN"

Applicant disclaims the use of the word "Lapan" apart from the mark as shown.
For Ladies' and Misses' Coats and Suits.
Claims use since Apr. 1, 1930.

Ser. No. 305,486. H. W. LAWSON MANUFACTURING COMPANY, Los Angeles, Calif. Filed Sept. 9, 1930.

HELEN OF HOLLYWOOD

No claim is made to the exclusive use of the word "Hollywood" apart from the mark as shown in the drawing.
For Ladies' and Misses' Dresses.
Claims use since Oct. 1, 1928.

Ser. No. 305,575. EDWIN ADELBERT LEE, Philadelphia, Pa. Filed Sept. 11, 1930.

RED-I-PAK

For Hosiery.
Claims use since Aug. 7, 1930.

Ser. No. 305,588. SAMUEL SHAPIRO, doing business as Braintree Shoe Company, South Braintree, Mass. Filed Sept. 11, 1930.

Modern Priscilla

For Boots and Shoes of Leather and Combinations of Leather, Rubber, and Fabric.
Claims use since about Feb. 28, 1928.

Ser. No. 305,788. OLIVER BROTHERS, Philadelphia, Pa. Filed Sept. 17, 1930.

GENUINE
"Oliver Twist"
GRENADINE

No claim is made to the words "Genuine" and "Grenadine" apart from the other features of the mark.
For Women's Hosiery.
Claims use since Aug. 1, 1930.

Ser. No. 305,943. THE SILVERTEX COMPANY, Philadelphia, Pa. Filed Sept. 22, 1930.

Silvertex
SPORTER

For Men's Suits and Coats, Students' Suits and Coats, Boys' High-School Suits and Coats, and Sport Clothes for Men—Namely, Suits, Coats, Knickers, and Vests—and Young Men's Coats and Suits.
Claims use since Jan. 1, 1930.

Ser. No. 306,116. WIMELBACHER & RICE, New York, N. Y. Filed Sept. 26, 1930.

New-Plex

For Leather and Fabric Gloves.
Claims use since July 1, 1929.

Ser. No. 306,311. FEDERAL KNITWEAR CO., INC., Newark, N. J. Filed Oct. 2, 1930.

Glengyle
SPORTWEAR

No claim is made to the word "Sportswear" apart from the mark shown on the drawing.
For Women's and Misses' Knitted Sport Outer Wear—Namely, Sweaters, Dresses, and Suits.
Claims use since Sept. 1, 1930.

Ser. No. 306,342. CHICAGO MAIL ORDER COMPANY, Chicago, Ill. Filed Oct. 3, 1930.

Mother Nature

For Children's Shoes Made of Leather, Rubber, and Fabric, and Combinations of the Same.
Claims use since Aug. 12, 1930.

Ser. No. 306,422. SILIKO HOSIERY CO., INC., Philadelphia, Pa. Filed Oct. 4, 1930.

Bel Aire

For Hosiery.
Claims use since Aug. 7, 1930.

Ser. No. 306,440. M. GILBERT & SONS CO., South Bend, Ind. Filed Oct. 6, 1930.

P. A.
PERSONAL APPEARANCE

No claim is made to the use of the words "Personal Appearance" apart from the mark as shown.
For Men's Suits, Topcoats, and Overcoats.
Claims use since July 15, 1930.

Ser. No. 306,458. THE PALACE CLOTHING COMPANY, Kansas City, Mo. Filed Oct. 6, 1930.

SUPERALL

For Men's and Boys' Suits and Overcoats.
Claims use since June 30, 1930.

Ser. No. 306,528. THE DARTMOOR COAT CO., INC., New York, N. Y. Filed Oct. 8, 1930.

Malibu

For Men's and Women's Topcoats.
Claims use since Sept. 1, 1930.

Ser. No. 306,535. KNOX HAT COMPANY, INC., New York, N. Y. Filed Oct. 8, 1930.

L'ETRANGER

For Felt Hats for Men.
Claims use since July 1, 1930.

Ser. No. 306,558. CLAUDE H. DANIELS, Boston, Mass. Filed Oct. 9, 1930.

MUSSEL SOLES

Applicant disclaims exclusive rights to the word "Soles" apart from the mark shown in the drawing.
For Men's, Women's, and Children's Boots, Shoes, and Slippers, Made Wholly or in Part of Leather, Rubber, Canvas, or Textile Materials; Whole Soles, Half Soles, Tap Soles, and Heels.
Claims use since Sept. 22, 1930.

Ser. No. 306,616. NATIONAL BELLAS HESS CO. INC., New York, N. Y. Filed Oct. 10, 1930.



The lining on the drawing indicates the color orange.
For Hosiery.
Claims use since Sept. 26, 1930.

Ser. No. 306,661. PROPPER-MCCALLUM HOSIERY CO., INC., New York, N. Y. Filed Oct. 11, 1930.

"You Just Know She Wears Them"

For Hosiery.
Claims use since 1914.

Ser. No. 306,770. COPLEY HAT COMPANY, INC., New York, N. Y. Filed Oct. 15, 1930.

ASHLEY

IN CRUCE VINCO

Exclusive use of the word "Ashley" is not claimed except in association with the rest of the mark.
For Men's Hats and Caps.
Claims use since August, 1930.

Ser. No. 306,888. GOLDBLATT BROS. INC., Chicago, Ill. Filed Oct. 18, 1930.

Gold Coast

For Hosiery.
Claims use since Jan. 1, 1930.

Ser. No. 306,894. KAUFMAN BROS. UNDERWEAR CO. INC., New York, N. Y. Filed Oct. 18, 1930.

La Doux

For Ladies' and Children's Woven and Flat Underwear.
Claims use since Sept. 1, 1930.

Ser. No. 307,103. STEPHEN J. PALINKOS, South Norwalk, Conn. Filed Oct. 23, 1930.

LUSTRO

For Ladies' Fur Felt Hats.
Claims use since January, 1928.

Ser. No. 307,137. THE FLORETTE SHOE COMPANY, INC., New York, N. Y. Filed Oct. 24, 1930.

FLORETTE

For Women's Shoes Wholly or Partly Made of Leather.
Claims use since Sept. 15, 1930.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 304,085. JOSEPH BERKOWITZ, doing business as A. C. T. Shoe Lace Mfg. Co., New York, N. Y. Filed July 29, 1930.

ACT

For Shoe Laces.
Claims use since Jan. 30, 1930.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 305,065. BABY GRANDS, INC., New York, N. Y. Filed Aug. 27, 1930.

BABY GRAND

Applicant disclaims the word "Baby" apart from the mark as shown.
For Textile Diapers.
Claims use since Apr. 23, 1930.

Ser. No. 306,106. PRINCESS PAT PRODUCTS LIMITED, Toronto, Ontario, Canada. Filed Sept. 26, 1930.

Princess Pat

For Hair Nets.
Claims use since Dec. 15, 1920.

Ser. No. 306,162. AMERICAN WOOLEN COMPANY, Boston, Mass. Filed Sept. 29, 1930.

UNIVERSAL

For Textile Carpet, Particularly Adapted for Use in Connection with Indoor Golf.
Claims use since Sept. 15, 1930.

Ser. No. 306,493. ALLEN L. GOLDFINE, doing business as Glenerry Woolen Company, New York, N. Y. Filed Oct. 7, 1930.



For Woolen Piece Goods for Suits and Coats.
Claims use since Aug. 1, 1930.

Ser. No. 307,267. WM. H. DAVIDOW SONS CO., INC., New York, N. Y. Filed Oct. 28, 1930.

DAVAHNA

For Wool Fabric in the Piece.
Claims use since June, 1930.

CLASS 43

Thread and Yarn

Ser. No. 307,452. HUGHES FAWCETT, INC., New York, N. Y. Filed Nov. 1, 1930.

BROAD ARROW

For Linen, Cotton, and Silk Threads and Yarns.
Claims use since Jan. 29, 1907.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 298,945. HOYT BROTHERS, INC., Newark, N. J. Filed Apr. 16, 1930.

QUALITY HOYT'S PRODUCTS

No claim is made to the words "Quality Products" apart from the mark shown in the drawing.
For Absorbent Cotton, Absorbent Pads, Surgical Dressings, Sanitary Napkins, Rubber Nursery Nipples, Bandages, Antiseptic Dressings, Surgical Cotton Gauze, and Toothpicks.
Claims use since Feb. 16, 1924.

Ser. No. 306,417. READ-A-RAY CO., Lima, Ohio. Filed Oct. 4, 1930.

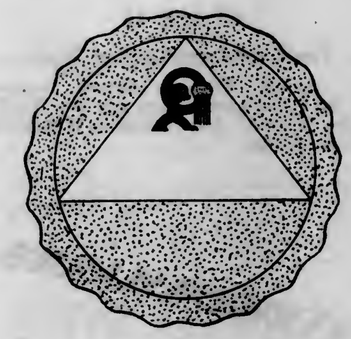
READ-A-RAY

For Supplies for X-Ray Machines—Namely, X-Ray Marking Cards.
Claims use since Aug. 28, 1930.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 303,652. ORANGE-CRUSH COMPANY, Chicago, Ill. Filed July 19, 1930.



The representation of a bottle cap per se is disclaimed.
For Nonalcoholic, Maltless Beverages Sold as Soft Drinks, and Syrups, Compounds, Flavors, and Concentrates for Making the Same.
Claims use since May 1, 1930.

Ser. No. 304,025. THE WHIPPLE COMPANY, Natick, Mass. Filed July 30, 1930.

Grandmother's



The drawing is fanciful.
For Fountain Syrups for Making Soft Drinks.
Claims use since June 21, 1919.

Ser. No. 306,901. SAM ROSEN, doing business as Twin Rock Bottling Company, Baltimore, Md. Filed Oct. 18, 1930.



For Nonalcoholic, Maltless Beverages and Syrups and Concentrates for Making the Same.
Claims use since Sept. 8, 1930.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 292,468. STANDARD BRANDS INCORPORATED, Dover, Del.; Cincinnati, Ohio; and New York, N. Y. Filed Nov. 15, 1929. Under section 5b of the act of 1905 as amended in 1920.

FLEISCHMANN'S

For Frozen Eggs—Namely, Frozen Whole Eggs, Frozen Egg Whites, and Frozen Egg Yolks.
Claims use since Oct. 25, 1929.

Ser. No. 298,578. LOCOA COMPANY, INC., Tampa, Fla. Filed Apr. 9, 1930.

CELO

For Ice Cream and Candy.
Claims use since July, 1929.

Ser. No. 300,792. THE GARRETT COUNTY MAPLE PRODUCTS ASSOCIATION, Oakland, Md. Filed May 19, 1930.



No claim is made to the words "Pure Maple Products" except in the association shown.
For Food Products—Namely, Maple Syrup, Maple Sugar, and Maple Cream.
Claims use since Mar. 1, 1930.

Ser. No. 301,890. F. A. GEISER & H. OPPLIGER, Varese, Italy. Filed May 31, 1930.

F. A. G. O.

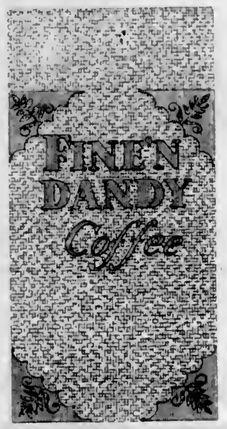
For Coffee Substitute.
Claims use since May, 1909.

Ser. No. 301,899. GOLDSMITH PICKLE CO., Chicago, Ill. Filed May 31, 1930.



The words "Home Made Pickles and Pickled Products Chicago" and the representation of a cucumber are disclaimed apart from the mark shown.
For Homemade Garlic Pickles, Homemade Dill Pickles, Sour Pickles, Homemade Dill Tomatoes, Dill Peppers, Stuffed Peppers, Fancy Sweet Mixed Pickles, Chow Chow, Sweet Piccalilli or Relish, Sweet Cross Cut Pickles, Sweet Pickles, Senf-Gherkins, Pickled Sweet Onions, Pickled Sour Onions, Melon Mangoes, Sweet Pickled Vegetables, Sour Pickled Vegetables, Burr Gherkins, Mexican Style Peppers, Mild Apple Peppers, Cherry Peppers, Finger Peppers, Fancy Queen Olives, Mustard, Sauer Kraut, and Fancy Stuffed Olives.
Claims use since Nov. 6, 1926.

Ser. No. 303,399. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed July 11, 1930.



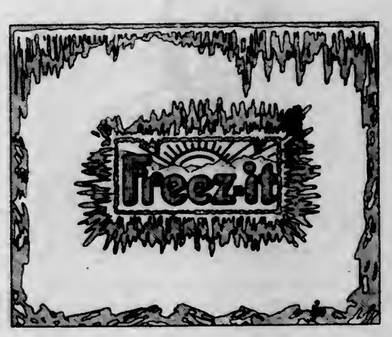
Although the trade-mark as shown in the drawing has customarily been printed in red upon a yellow background, the lines shown in the drawing are not intended to be restrictively indicative of any particular colors. No claim is made to the word "Coffee" except in connection with the trade-mark as shown.
For Coffee.
Claims use since June 30, 1930.

Ser. No. 303,400. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed July 11, 1930.

FINE'N DANDY

Although the trade-mark as shown in the drawing has customarily been printed in red, the lines shown in the drawing are not intended to be restrictively indicative of any particular color.
For Coffee.
Claims use since June 30, 1930.

Ser. No. 303,703. THE TRU-BLU BISCUIT COMPANY, also doing business as Tru-Blu, Spokane, Wash. Filed July 21, 1930.



The conventional lining indicates the colors red and green.
For Candies.
Claims use since June 17, 1930.

Ser. No. 303,762. DODGE & OLCOTT COMPANY, New York, N. Y. Filed July 24, 1930.

SYNCOFFEE

For Coffee Flavors and Coffee Extracts for Food-Flavoring Purposes and Coffee Substitutes.
Claims use since June 30, 1930.

Ser. No. 303,787. ROMA IMPORTING CO., INC., Waterbury, Conn. Filed July 24, 1930.

BANDIERA VITTORIOSA



For Salad Oil and Wheat Flour.
Claims use since Dec. 2, 1929.

Ser. No. 305,052. NATIONAL CANNERS ASSOCIATION, Wilmington, Del., and Washington, D. C. Filed Aug. 26, 1930.



For Canned Fruits, Canned Vegetables, Canned Strawberry Preserves, Canned Fish, Canned Fishroe, Canned Shell Fish, Canned Clam Chowder, Canned Soups, Canned Spaghetti, Canned Evaporated Milk, Canned Boston Brown Bread, Canned Mushrooms, Canned Pickles, Canned Olives, Coffee, and Tea.
Claims use since Aug. 11, 1930.

Ser. No. 305,323. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed Sept. 4, 1930.

BREAK O'MORN

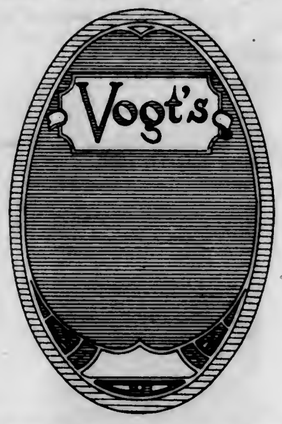
The features of the mark presented in the drawing are claimed independently of the colors shown, but in the drawing the linings are intended to indicate the colors yellow and lilac in which the portions of the trade-mark so lined have customarily been printed.
For Coffee.
Claims use since July 31, 1930.

Ser. No. 305,324. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed Sept. 4, 1930.



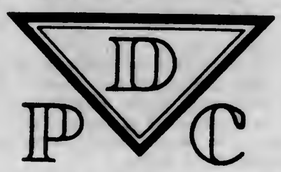
No claim is made to the word "Coffee" apart from the trade-mark as shown in the drawing, but the rest of the features of the mark presented in the drawing are claimed independently of the colors shown. In the drawing the linings are intended to indicate the colors yellow and lilac, in which the portions of the trade-mark so lined have customarily been printed.
For Coffee.
Claims use since July 31, 1930.

Ser. No. 305,425. F. G. VOGT & SONS, INCORPORATED, Philadelphia, Pa. Filed Sept. 6, 1930.



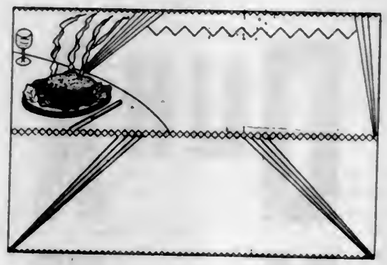
The background within the oval is dark blue. The border is light blue.
For Meat Products—Namely, Bacon, Scrapple, Shoulders, Ham, and Cottage Butts.
Claims use since Feb. 1, 1930.

Ser. No. 305,927. DIAL PRODUCE CORPORATION, New York, N. Y. Filed Sept. 22, 1930.



For Potatoes and Onions in Their Natural State.
Claims use since May 15, 1922.

Ser. No. 306,367. PETER ROSSI & SONS, Braidwood, Ill. Filed Oct. 3, 1930.



For Alimentary Pastes.
Claims use since Sept. 28, 1929.

Ser. No. 306,415. NEW ORLEANS COFFEE COMPANY, LTD., New Orleans, La. Filed Oct. 4, 1930.

Pointer

For Compounds of Coffee and Chicory, and Compounds of Coffee, Chicory, and Cereal.
Claims use since June 16, 1909.

Ser. No. 306,425. STAFFORD COUNTY FLOUR MILLS CO., Hudson, Kans. Filed Oct. 4, 1930.

DEFENDER

For Wheat Flour.
Claims use since 1908.

Ser. No. 306,488. FRED FEAR & CO., Brooklyn, N. Y. Filed Oct. 7, 1930. Under 10-year proviso.

NEW ENGLAND

For Flaked Fish and Table Syrups.
Claims use since 1890.

Ser. No. 306,573. THE FRANK PEPE MACARONI COMPANY, INC., Waterbury, Conn. Filed Oct. 9, 1930.

EGG FOODIES

No claim is made to the word "Egg" apart from the mark as shown.
For Egg Noodles.
Claims use since January, 1929.

Ser. No. 307,228. THEO. STIVERS MILLING COMPANY, Rome, Ga. Filed Oct. 27, 1930.

THREE RIVERS

For Wheat Flour.
Claims use since July, 1930.

Ser. No. 307,235. WASHINGTON DEHYDRATED FOOD COMPANY, Yakima, Wash. Filed Oct. 27, 1930.

YAKIMA CHIEF

For Evaporated Apples.
Claims use since July, 1926.

Ser. No. 307,251. L. BRONSTEIN & CO., INC., New York, N. Y. Filed Oct. 28, 1930.



Der gute Kamerad

For Cheese.
Claims use since Sept. 19, 1930.

Ser. No. 307,313. THE DENVER ALFALFA MILLING & PRODUCTS CO., Lamar, Colo. Filed Oct. 29, 1930.

Greenfalfa

For Poultry Meal.
Claims use since June 1, 1930.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 307,009. NATIONAL BROKERAGE COMPANY, INC., Chicago, Ill. Filed Oct. 21, 1930.

BOURBON
SUPREME
LONE STAR

No claim is made to the word "Bourbon" apart from the mark shown in the drawing.
For Whiskey.
Claims use since Sept. 2, 1930.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 296,239. RESPRO, INC., Cranston, R. I. Filed Feb. 19, 1930.

DURA
KALF

No registration rights are claimed for the word "Kalf" apart from the mark shown in the drawing.
For Artificial Leather.
Claims use since Jan. 30, 1930.

Ser. No. 306,851. BROWN COMPANY, Portland, Me., and Berlin, N. H. Filed Oct. 17, 1930.

HEARTHGLOW

For Pine Cones or Similar Articles Painted or Chemically Treated for Ornamental Purposes.
Claims use since Aug. 2, 1930.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

DECEMBER 9, 1930

278,140. SCIENTIFIC SLEEPING BELT TO PROMOTE HEALTHFUL SLEEP. DAVID S. PRICE, doing business as Sleep-Rite Belt Company, Scranton, Pa.
Filed August 14, 1930. Serial No. 304,632. PUBLISHED SEPTEMBER 20, 1930. Class 44.

278,141. PROPHYLACTIC RUBBER ARTICLES FOR THE PREVENTION OF CONTAGIOUS DISEASES. LOUIS M. SCHAEFFER, doing business as General Sundries Co., Cleveland, Ohio.
Filed August 13, 1930. Serial No. 304,582. PUBLISHED SEPTEMBER 30, 1930. Class 44.

278,142. PROPHYLACTIC RUBBER ARTICLES FOR THE PREVENTION OF CONTAGIOUS DISEASES. THORO-BRED RUBBER MFG. CO., New York, N. Y.
Filed August 12, 1930. Serial No. 304,522. PUBLISHED SEPTEMBER 30, 1930. Class 44.

278,143. AUTOMOBILE LIQUID POLISH. WILLIAM MUESSE, Bronx, N. Y.
Filed August 7, 1930. Serial No. 304,339. PUBLISHED SEPTEMBER 30, 1930. Class 16.

278,144. TEXTILE ROLLER VARNISH. GLOSSO VARNISH COMPANY, Landis, N. C.
Filed August 4, 1930. Serial No. 304,197. PUBLISHED SEPTEMBER 23, 1930. Class 16.

278,145. A MAYONNAISE OR SALAD DRESSING PREPARED FROM NONFATTENING INGREDIENTS. MAE E. FEHR, doing business as Fehr's Products Company, Sacramento, Calif.
Filed July 16, 1930. Serial No. 303,534. PUBLISHED SEPTEMBER 16, 1930. Class 46.

278,146. CAKE ICING. ADOLF J. MAINZER INC., New York, N. Y.
Filed July 15, 1930. Serial No. 303,509. PUBLISHED SEPTEMBER 16, 1930. Class 46.

278,147. CERTAIN NAMED PAINT PRODUCTS. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio.
Filed July 16, 1930. Serial No. 303,551. PUBLISHED SEPTEMBER 16, 1930. Class 16.

278,148. PERFUME ATOMIZERS. EVANS CASE COMPANY, North Attleboro, Mass.
Filed July 16, 1930. Serial No. 303,533. PUBLISHED SEPTEMBER 16, 1930. Class 44.

278,149. FLOOR DRESSING. AMERICAN DISINFECTING COMPANY, Sedalia, Mo.
Filed July 16, 1930. Serial No. 303,526. PUBLISHED SEPTEMBER 23, 1930. Class 16.

278,150. CERTAIN NAMED PAINT PRODUCTS. ERNEST C. RIECK, doing business as E. C. Rieck Paint Co., Chicago, Ill.
Filed July 15, 1930. Serial No. 303,513. PUBLISHED SEPTEMBER 23, 1930. Class 16.

278,151. AUTOMOBILE AND FURNITURE POLISH. THE NORTHWESTERN CHEMICAL CO., Marietta, Ohio.
Filed July 14, 1930. Serial No. 303,485. PUBLISHED SEPTEMBER 23, 1930. Class 16.

278,152. READY-MIXED PAINT. THE R. F. JOHNSTON PAINT COMPANY, Cincinnati, Ohio.
Filed July 14, 1930. Serial No. 303,480. PUBLISHED SEPTEMBER 16, 1930. Class 16.

278,153. FLOOR PREPARATION. FEDERAL RESEARCH CORPORATION, Woodland, Ill.
Filed July 11, 1930. Serial No. 303,371. PUBLISHED SEPTEMBER 16, 1930. Class 16.

278,154. CITRUS-FRUIT JUICES FOR FOOD PRODUCTS. H. L. SHERMAN, Boston, Mass.
Filed July 10, 1930. Serial No. 303,350. PUBLISHED SEPTEMBER 16, 1930. Class 46.

278,155. DIAMOND CLEANER. J. H. HEIMAN, doing business as J. H. Heiman Laboratories, Cleveland, Ohio.
Filed July 8, 1930. Serial No. 303,248. PUBLISHED SEPTEMBER 16, 1930. Class 4.

278,156. PROPHYLACTIC RUBBER GOODS FOR PREVENTION OF CONTAGIOUS DISEASES. ROBERT R. BURKS, doing business as Paramount Sales Co., Knoxville, Tenn.
Filed July 8, 1930. Serial No. 303,245. PUBLISHED SEPTEMBER 30, 1930. Class 44.

278,157. POLISH FOR AUTOMOBILES AND LACQUERED FINISHES. CHARLES LITTLE, doing business as C. Little Mfg. Co., Detroit, Mich.
Filed July 7, 1930. Serial No. 303,194. PUBLISHED SEPTEMBER 16, 1930. Class 4.

278,158. SOLVENT USED IN THE MANUFACTURE OF PAINTS, VARNISHES, AND LACQUERS. THE PURE OIL COMPANY, Chicago, Ill.
Filed July 3, 1930. Serial No. 303,123. PUBLISHED SEPTEMBER 16, 1930. Class 16.

278,159. GLUCOSE OR CORN SYRUP. CORN PRODUCTS REFINING COMPANY, New York, N. Y.
Filed July 3, 1930. Serial No. 303,094. PUBLISHED SEPTEMBER 16, 1930. Class 46.

278,160. HARD COCONUT BUTTER USED AS A FOOD AND AN INGREDIENT OF FOODS. SPENCER KELLOGG AND SONS, INC., Buffalo, N. Y.
Filed July 2, 1930. Serial No. 303,070. PUBLISHED SEPTEMBER 16, 1930. Class 46.

278,161. PAINTER'S SIZING FOR WALLS. THE AMERICAN CEMENT PAINT COMPANY, Rossville, Ga.
Filed June 30, 1930. Serial No. 302,986. PUBLISHED SEPTEMBER 30, 1930. Class 16.

278,162. DRY PAINT. THE AMERICAN CEMENT PAINT COMPANY, Rossville, Ga.
Filed June 30, 1930. Serial No. 302,985. PUBLISHED SEPTEMBER 23, 1930. Class 16.

278,163. PAINTER'S SIZE. ALABASTINE COMPANY, Grand Rapids, Mich.
Filed June 27, 1930. Serial No. 302,879. PUBLISHED SEPTEMBER 16, 1930. Class 16.

278,164. PAINT. ROTH SUPPLY CO. INC., New York, N. Y.
Filed June 24, 1930. Serial No. 302,794. PUBLISHED SEPTEMBER 16, 1930. Class 16.

278,165. MAYONNAISE AND SANDWICH SPREAD. BLUE PLATE FOODS INC., New Orleans, La.
Filed June 24, 1930. Serial No. 302,764. PUBLISHED SEPTEMBER 23, 1930. Class 46.

278,166. BOYS' AND GIRLS' WEAR—NAMELY, CHILDREN'S WASH SUITS. THE STROUSE-BAER COMPANY, INC., Baltimore, Md.
Filed June 18, 1930. Serial No. 302,557. PUBLISHED SEPTEMBER 16, 1930. Class 39.

278,167. METALLIC PAINT. THE PRINCE MFG. CO., Bowmanstown, Pa.
Filed June 16, 1930. Serial No. 302,475. PUBLISHED SEPTEMBER 16, 1930. Class 16.

278,168. DRESS SHIRTS FOR MEN AND BOYS. J. H. BONCK CO., New Orleans, La.
Filed June 10, 1930. Serial No. 302,299. PUBLISHED SEPTEMBER 16, 1930. Class 39.

278,169. ICE-CREAM CONFECTION. GOULD SELECT DAIRIES, INC., Minneapolis, Minn.
Filed June 3, 1930. Serial No. 302,143. PUBLISHED SEPTEMBER 16, 1930. Class 46.

278,170. PAINTS, VARNISHES, AND LACQUERS. TOCH BROTHERS, INC., New York, N. Y.
Filed May 29, 1930. Serial No. 301,730. PUBLISHED SEPTEMBER 23, 1930. Class 16.

278,171. ICE-CREAM-SANDWICH WAFERS. GENERAL CONE CORPORATION, Chicago, Ill.
Filed May 26, 1930. Serial No. 301,260. PUBLISHED SEPTEMBER 23, 1930. Class 46.

278,172. ICE CREAM. DAVID LEVINSON, Brooklyn, N. Y.
Filed May 23, 1930. Serial No. 301,116. PUBLISHED SEPTEMBER 16, 1930. Class 46.

278,173. METAL HAND STAMP. TIMOTHY B. POWERS, New York, N. Y.
Filed August 2, 1930. Serial No. 304,160. PUBLISHED SEPTEMBER 30, 1930. Class 23.

278,174. MICROSCOPES. BAUSCH & LOMB OPTICAL COMPANY, New York, N. Y.
Filed August 20, 1930. Serial No. 304,792. PUBLISHED SEPTEMBER 30, 1930. Class 26.

278,175. MOTION PICTURES. UNITED ARTISTS CORPORATION, New York, N. Y.
Filed August 12, 1930. Serial No. 304,525. PUBLISHED SEPTEMBER 30, 1930. Class 26.

278,176. FLUE EXPANDERS FOR STEAM BOILERS. THE J. FAESSLER MFG. COMPANY, Moberly, Mo.
Filed August 6, 1930. Serial No. 304,278. PUBLISHED SEPTEMBER 30, 1930. Class 23.

278,177. LIQUID PUMPS OF THE CENTRIFUGAL, DIAPHRAGM, PISTON, PLUNGER, AND ROTARY TYPES, AND SAW TABLES AND SAW RINGS. CHAIN BELT COMPANY, Milwaukee, Wis.
Filed August 4, 1930. Serial No. 304,187. PUBLISHED SEPTEMBER 30, 1930. Class 23.

278,178. SPRING WATER. VIRGINIA BUFFALO SPRINGS CORPORATION, Buffalo Springs, Va.
Filed June 25, 1930. Serial No. 302,843. PUBLISHED AUGUST 5, 1930. Class 45.

278,179. APPARATUS FOR MEASURING THE TEMPERATURE OF THE SKIN. TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y.
Filed August 21, 1930. Serial No. 304,895. PUBLISHED SEPTEMBER 30, 1930. Class 26.

278,180. RAZOR BLADES. INTERNATIONAL SAFETY RAZOR CORP., Bloomfield, N. J.
Filed August 20, 1930. Serial No. 304,819. PUBLISHED SEPTEMBER 30, 1930. Class 23.

278,181. MATCHES. BIDDLE PURCHASING CO., New York, N. Y.
Filed August 20, 1930. Serial No. 304,794. PUBLISHED SEPTEMBER 30, 1930. Class 9.

278,182. LIQUID CLEANING AND WASHING COMPOUND. SUNTEX CHEMICAL CO., Philadelphia, Pa.
Filed July 16, 1930. Serial No. 303,556. PUBLISHED SEPTEMBER 23, 1930. Class 4.

278,183. SOAP FLAKES. MITCHELL WINO COMPANY, Cambridge, Mass.
Filed July 31, 1930. Serial No. 304,060. PUBLISHED SEPTEMBER 23, 1930. Class 4.

278,184. SHOE DRESSING AND POLISH. HENDERSON BROS. CORPORATION, Johnstown, Pa.
Filed July 30, 1930. Serial No. 304,008. PUBLISHED SEPTEMBER 16, 1930. Class 4.

278,185. STERILIZER FOR STERILIZING DENTAL AND SURGICAL INSTRUMENTS. THE SPARK ELECTRIC COMPANY, Kansas City, Mo.
Filed July 28, 1930. Serial No. 303,927. PUBLISHED SEPTEMBER 16, 1930. Class 44.

278,186. SHAVING CREAM. THE WHISKO COMPANY, INC., Indianapolis, Ind.
Filed July 19, 1930. Serial No. 303,673. PUBLISHED SEPTEMBER 16, 1930. Class 4.

278,187. SOAP POWDER. THE MINNESOTA CHEMICAL CO., INC., St. Paul, Minn.
Filed July 18, 1930. Serial No. 303,608. PUBLISHED SEPTEMBER 16, 1930. Class 4.

278,188. PROPHYLACTIC RUBBER GOODS FOR THE PREVENTION OF CONTAGIOUS DISEASES. H. V. PLATTNER, Kansas City, Mo.
Filed June 30, 1930. Serial No. 303,005. PUBLISHED SEPTEMBER 16, 1930. Class 44.

278,189. SHAVING CREAM. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed May 31, 1930. Serial No. 302,042. PUBLISHED SEPTEMBER 16, 1930. Class 4.

278,190. FILTERS. NUWAY FILTER COMPANY, Detroit, Mich.
Filed August 21, 1930. Serial No. 304,882. PUBLISHED SEPTEMBER 30, 1930. Class 31.

278,191. DOMESTIC REFRIGERATORS, COMMERCIAL ICE BOXES, COMMERCIAL REFRIGERATORS, WATER COOLERS, ICE MAKERS, AND ICE-CREAM CABINETS. FEDERAL METAL PRODUCTS CORPORATION, Hoboken, N. J.
Filed August 21, 1930. Serial No. 304,859. PUBLISHED SEPTEMBER 30, 1930. Class 31.

278,192. CARBONATED, NONALCOHOLIC NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS AND EXTRACTS USED IN MAKING THE SAME. CHESTERMAN CO., Sioux City, Iowa.
Filed August 13, 1930. Serial No. 304,533. PUBLISHED SEPTEMBER 30, 1930. Class 45.

278,193. NONALCOHOLIC NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS AND EXTRACTS THEREFOR. BLUE SEAL EXTRACT COMPANY, Cambridge, Mass.
Filed August 8, 1929. Serial No. 288,269. PUBLISHED NOVEMBER 26, 1929. Class 45.

278,194. POLISHING PREPARATION FOR FURNITURE, AUTOMOBILES, AND WOODWORK. W. P. FULLER & CO., San Francisco, Calif.
Filed June 22, 1929. Serial No. 285,970. PUBLISHED SEPTEMBER 16, 1930. Class 16.

278,195. PROPHYLACTIC RUBBER ARTICLES FOR THE PREVENTION OF CONTAGIOUS DISEASES. L. HILSENBECK, INC., New York, N. Y.
Filed May 20, 1930. Serial No. 300,871. PUBLISHED SEPTEMBER 16, 1930. Class 44.

278,196. RULES. THE STANLEY WORKS, New Britain, Conn.
Filed May 19, 1930. Serial No. 300,827. PUBLISHED SEPTEMBER 30, 1930. Class 26.

278,197. FOOT-CORRECTIVE APPLIANCES—NAMELY, ARCH BRACES. THE JUNG ARCH BRACE COMPANY, Cincinnati, Ohio.
Filed May 10, 1930. Serial No. 300,283. PUBLISHED SEPTEMBER 23, 1930. Class 44.

278,198. LIQUID SOAPS. W. H. & F. JORDAN, JR., MFG. CO., Philadelphia, Pa.
Filed May 8, 1930. Serial No. 300,132. PUBLISHED SEPTEMBER 16, 1930. Class 4.

278,199. ELECTRICAL APPARATUS FOR ASSISTING PERSONS WITH DEFECTIVE HEARING. ADLANCO INDUSTRIAL PRODUCTS CORPORATION, New York, N. Y.
Filed May 3, 1930. Serial No. 299,881. PUBLISHED SEPTEMBER 23, 1930. Class 44.

278,200. SILENT AND/OR SOUND OR TALKING MOTION-PICTURE FILMS SHOWING ANIMATED CARTOONS. PATRICK A. POWERS, New York, N. Y.
Filed May 7, 1930. Serial No. 300,085. PUBLISHED JULY 15, 1930. Class 26.

278,201. SHOES MADE OF LEATHER. CHARLES L. BOWER, Seattle, Wash.
Filed April 18, 1930. Serial No. 299,040. PUBLISHED SEPTEMBER 16, 1930. Class 39.

278,202. ACOUSTICAL FIBRE BOARD. CHICAGO MILL AND LUMBER CORPORATION, Chicago, Ill.
Filed July 30, 1930. Serial No. 303,999. PUBLISHED SEPTEMBER 23, 1930. Class 12.

278,203. RUBBER SOLES AND HEELS. ESSEX RUBBER COMPANY, INC., Trenton, N. J.
Filed July 31, 1930. Serial No. 304,045. PUBLISHED SEPTEMBER 16, 1930. Class 39.

278,204. SCREW CONVEYING APPARATUS AND PARTS THEREOF. CLARK TRUCTRACTOR COMPANY, Buchanan, Mich.
Filed July 31, 1930. Serial No. 304,038. PUBLISHED SEPTEMBER 30, 1930. Class 23.

278,205. TOY MODEL AIRPLANES AND MODEL-AIRPLANE SUPPLIES. JOHN N. LOUGHNER, doing business as Michigan Model Airplane Supply Company and Boden-Loughner Manufacturing Company, Detroit, Mich.
Filed June 6, 1930. Serial No. 302,220. PUBLISHED SEPTEMBER 16, 1930. Class 22.

278,206. VESTS, CHEMISES, STEP-INS IN THE NATURE OF DRAWERS, SLIPS, PETTICOATS, BLOOMERS, AND A COMBINATION UNDERGARMENT CONSISTING OF BRASSIÈRES, VESTS, AND STEP-INS IN THE NATURE OF DRAWERS. HARRY RAGOVIN, New York, N. Y.
Filed May 31, 1930. Serial No. 302,023. PUBLISHED SEPTEMBER 16, 1930. Class 39.

278,207. CERTAIN-NAMED WEARING APPAREL. S. M. FLICKINGER CO., INC., Buffalo, N. Y.
Filed May 26, 1930. Serial No. 301,258. PUBLISHED SEPTEMBER 16, 1930. Class 39.

278,208. LADIES', MISSES', CHILDREN'S, MEN'S, AND BOYS' HATS AND CAPS. EVERGREEN CALIFORNIA HATS, INC., San Francisco, Calif.
Filed May 24, 1930. Serial No. 301,167. PUBLISHED SEPTEMBER 16, 1930. Class 39.

278,209. WOMEN'S RAYON UNDERWEAR. UNIVERSAL RAYON UNDERWEAR CORPORATION, New York, N. Y.
Filed December 11, 1929. Serial No. 298,611. PUBLISHED AUGUST 26, 1930. Class 39.

278,210. FROZEN CONFECTIONS. THE HYDRICE CORPORATION, New York, N. Y.
Filed January 13, 1930. Serial No. 294,725. PUBLISHED SEPTEMBER 16, 1930. Class 46.

278,211. PLASTIC PAINT. HARRY W. HERWIG, doing business as Craftone Manufacturing Company, Boston, Mass., assignor, by mesne assignments, to Craftex Company, Boston, Mass., a Corporation of Massachusetts.
Filed January 21, 1930. Serial No. 295,028. PUBLISHED MARCH 11, 1930. Class 16.

278,212. LIQUID WAX FOR LINOLEUM OR FLOORS. MIRACUL WAX CO., St. Louis, Mo.
Filed January 29, 1930. Serial No. 295,345. PUBLISHED SEPTEMBER 23, 1930. Class 16.

278,213. HERMETICALLY-PRESERVED FISH, SUCH AS SARDINES, BRISLINGS, HERRING, MACKERELS, KIPPER SMACKS, FISH BALLS, FISH CAKES, AND COD ROE. A/S UNITED SARDINE FACTORIES, Bergen, Norway.
Filed January 31, 1930. Serial No. 295,413. PUBLISHED SEPTEMBER 23, 1930. Class 46.

278,214. NONINTOXICATING, NONCEREAL, MALTLESS BEVERAGES AND SIRUPS AND CONCENTRATES FOR MAKING THE SAME. NEHI, INC., Columbus, Ga.
Filed September 4, 1929. Serial No. 289,320. PUBLISHED NOVEMBER 12, 1929. Class 45.

278,215. CANNED CHOP SUEY, CANNED CHOW-MEIN NOODLES, CANNED BEAN SPROUTS, CANNED MIXED VEGETABLES. ORIENTAL SHOW-YOU COMPANY, Columbia City, Ind.
Filed February 8, 1930. Serial No. 295,807. PUBLISHED SEPTEMBER 16, 1930. Class 46.

278,216. BISCUITS. MCCORMICK MFG. CO. LIMITED, London, Ontario, Canada.
Filed February 10, 1930. Serial No. 295,855. PUBLISHED SEPTEMBER 16, 1930. Class 46.

278,217. CANNED SPAGHETTI PREPARED WITH GRATED CHEESE AND SPECIALLY-PREPARED TOMATO SAUCE. ISLETON CANNING CO., San Francisco and Isleton, Calif.
Filed April 7, 1930. Serial No. 298,498. PUBLISHED SEPTEMBER 16, 1930. Class 46.

278,218. CERTAIN NAMED PAINT PRODUCTS. KREUTER-FAASEN COMPANY, Grand Rapids, Mich.
Filed April 24, 1930. Serial No. 299,394. PUBLISHED SEPTEMBER 16, 1930. Class 16.

278,219. CASEIN USED IN THE MANUFACTURE OF COATED PAPER, GLUE, PLASTER, ETC. CRAWFORD, KEEN & CO., New York, N. Y.
Filed May 15, 1930. Serial No. 300,564. PUBLISHED SEPTEMBER 23, 1930. Class 1.

278,220. MALT SYRUP. MICHAEL MERCURIO, doing business as Consumer's Supply Co., Malden, Mass.
Filed May 16, 1930. Serial No. 300,643. PUBLISHED SEPTEMBER 16, 1930. Class 46.

278,221. LAMB, MUTTON, VEAL, AND POULTRY, ETC. SWIFT & COMPANY, Chicago, Ill.
Filed May 16, 1930. Serial No. 300,686. PUBLISHED AUGUST 26, 1930. Class 46.

278,222. VEGETABLE-DISPLAY STANDS. A. W. REISER MANUFACTURING COMPANY, New Philadelphia, Ohio.
Filed July 26, 1930. Serial No. 303,862. PUBLISHED SEPTEMBER 30, 1930. Class 32.

278,223. CORSETS, CORSELETS, BRASSIÈRES, AND GIRDLES. LOUIS BRILL, doing business as Brill Corset Co., Philadelphia, Pa.
Filed July 26, 1930. Serial No. 303,835. PUBLISHED SEPTEMBER 16, 1930. Class 39.

278,224. SASH CORD AND CLOTHESLINES MANUFACTURED FROM COTTON AND COTTON WASTE. ICARD CORDAGE COMPANY, Icard, N. C.
Filed July 22, 1930. Serial No. 303,717. PUBLISHED SEPTEMBER 30, 1930. Class 7.

278,225. WOMEN'S LEATHER AND FABRIC SHOES. FREDERICK LOESER & CO. INC., Brooklyn, N. Y.
Filed July 19, 1930. Serial No. 303,645. PUBLISHED SEPTEMBER 16, 1930. Class 39.

278,226. RAZOR-BLADE SHARPENERS COMPRISING A MECHANICAL STRUCTURE FOR RETAINING AND BRINGING A RAZOR BLADE INTO CONTACT WITH A SHARPENING ELEMENT. HONE-IT MANUFACTURING CO., Highland Park, Mich.
Filed July 14, 1930. Serial No. 303,476. PUBLISHED SEPTEMBER 30, 1930. Class 23.

278,227. WEATHERPROOFED BUILDING PAPER. CREO-DIPT COMPANY, INC., North Tonawanda, N. Y.
Filed July 14, 1930. Serial No. 303,466. PUBLISHED SEPTEMBER 23, 1930. Class 12.

278,228. OUTSIDE COVERINGS FOR THE WALLS OF BUILDINGS MADE OF FLEXIBLE FELT IMPREGNATED WITH ASPHALTUM AND SURFACED WITH GRANULAR WEATHER-RESISTING MATERIAL. THE LOGAN-LONG COMPANY, Chicago, Ill.
Filed July 11, 1930. Serial No. 303,380. PUBLISHED SEPTEMBER 23, 1930. Class 12.

278,229. GIRLS' AND YOUNG WOMEN'S SHOES MADE OF LEATHER, RUBBER, FABRIC, AND/OR COMBINATIONS OF THOSE MATERIALS. R. H. MACY & CO., INC., New York, N. Y.
Filed July 7, 1930. Serial No. 303,195. PUBLISHED SEPTEMBER 16, 1930. Class 39.

278,230. TWISTER TRAVELERS. NATIONAL RING TRAVELER CO., Providence, R. I.
Filed July 2, 1930. Serial No. 303,066. PUBLISHED SEPTEMBER 30, 1930. Class 23.

278,231. PLASTER AND INSULATING BOARD. THE FLAX-LI-NUM INSULATING COMPANY, St. Paul, Minn.
Filed June 30, 1930. Serial No. 302,999. PUBLISHED SEPTEMBER 23, 1930. Class 12.

278,232. PATCHING PLASTER. ALABASTINE COMPANY, Grand Rapids, Mich.
Filed June 24, 1930. Serial No. 302,881. PUBLISHED SEPTEMBER 16, 1930. Class 12.

278,233. COLORING MATERIAL FOR USE IN AND UPON PLASTER AND SIMILAR PRODUCTS. ALABASTINE COMPANY, Grand Rapids, Mich.
Filed June 27, 1930. Serial No. 302,880. PUBLISHED SEPTEMBER 16, 1930. Class 12.

278,234. BOOTS OF RUBBER AND FABRIC. UNITED STATES RUBBER COMPANY, New York, N. Y.
Filed June 21, 1930. Serial No. 302,705. PUBLISHED SEPTEMBER 16, 1930. Class 39.

278,235. LEATHER BOOTS AND SHOES. COMMONWEALTH SHOE AND LEATHER COMPANY, Boston, Mass.
Filed June 19, 1930. Serial No. 302,571. PUBLISHED SEPTEMBER 16, 1930. Class 39.

278,236. COMBINED CAN PUNCTURING AND SEALING TOOLS. SAN-CAN-SEAL COMPANY, Long Beach, Calif.
Filed June 16, 1930. Serial No. 302,482. PUBLISHED SEPTEMBER 30, 1930. Class 23.

278,237. SLAG-PUZZOLAN CEMENT. CHENEY LIME & CEMENT COMPANY, Birmingham, Ala.
Filed July 30, 1930. Serial No. 303,908. PUBLISHED SEPTEMBER 23, 1930. Class 12.

278,238. PORTABLE MINIATURE GOLF COURSES SOLD AS A UNIT AND COMPONENT PARTS THEREOF, BOTH INDOOR AND OUTDOOR. LUCKY STRIKE GOLF COURSES, Greensboro, N. C.
Filed July 29, 1930. Serial No. 303,970. PUBLISHED SEPTEMBER 23, 1930. Class 22.

278,239. MEN'S HATS. THE AMERICAN HAT CO. INC., Norwalk, Conn.
Filed July 29, 1930. Serial No. 303,939. PUBLISHED SEPTEMBER 16, 1930. Class 39.

278,240. MEASURING GLASSES, MORE PARTICULARLY STANDARD GLASS GRADUATES. INDEPENDENT DRUGGISTS' ALLIANCE DISTRIBUTING CO., Chicago, Ill.
Filed July 28, 1930. Serial No. 303,899. PUBLISHED SEPTEMBER 30, 1930. Class 26.

278,241. TOILET SOAPS. PARFUMERIE ROGER ET GALLET, SOCIÉTÉ ANONYME, Paris, France.
Filed April 4, 1930. Serial No. 298,410. PUBLISHED SEPTEMBER 23, 1930. Class 4.

278,242. RULERS, CALCULATING RULES, SQUARES AND TRIANGLES, AND T SQUARES. J. W. GUTTKNECHT, Stein, near Nuremberg, Germany.
Filed April 4, 1930. Serial No. 298,393. PUBLISHED SEPTEMBER 30, 1930. Class 26.

278,243. FERTILIZERS. TEXAS FERTILIZER COMPANY, Nacogdoches, Tex.
Filed March 14, 1930. Serial No. 297,338. PUBLISHED SEPTEMBER 30, 1930. Class 10.

278,244. MASONRY BLOCKS FOR BUILDING. THE COVELL CORPORATION, Philadelphia, Pa.
Filed March 13, 1930. Serial No. 297,242. PUBLISHED SEPTEMBER 23, 1930. Class 12.

278,245. DRY CLEANER. NO RINO CORPORATION, New York, N. Y.
Filed March 1, 1930. Serial No. 296,712. PUBLISHED SEPTEMBER 23, 1930. Class 4.

278,246. GENERAL CLEANING PREPARATION. THE TROPICAL PAINT AND OIL COMPANY, Cleveland, Ohio.
Filed February 7, 1930. Serial No. 295,767. PUBLISHED SEPTEMBER 16, 1930. Class 4.

278,247. PROPHYLACTIC ARTICLES OF RUBBER OR ANIMAL TISSUE. THE STANDARD RUBBER COMPANY, INCORPORATED, Akron, Ohio.
Filed January 25, 1930. Serial No. 295,241. PUBLISHED SEPTEMBER 16, 1930. Class 44.

278,248. X-RAY APPARATUS AND SUPPLIES. N. V. PHILIPS' GLOEILAMPENFABRIEKEN, Eindhoven, Netherlands.
Filed December 30, 1929. Serial No. 294,233. PUBLISHED SEPTEMBER 23, 1930. Class 44.

278,249. TOILET SOAPS AND SHAVING STICKS. PAUL PETER MÜLHENS, doing business as Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany.
Filed December 19, 1929. Serial No. 293,894. PUBLISHED SEPTEMBER 16, 1930. Class 4.

278,250. SYRUPS FOR TABLE USE OR FOR USE IN MAKING CANDY AND CAKE ICINGS. JAMES VINCENT HUGHES, doing business as Kokonut Products Co., Lexington, Ky.
Filed April 25, 1929. Serial No. 282,990. PUBLISHED SEPTEMBER 16, 1930. Class 46.

278,251. ALIMENTARY PASTES. THE KANSAS CITY MACARONI & IMPORTING CO., Kansas City, Mo.
Filed March 9, 1929. Serial No. 280,499. PUBLISHED SEPTEMBER 16, 1930. Class 46.

278,252. CAKE CONFECTIONS. H. C. BRILL COMPANY, INC., Newark, N. J.
Filed February 16, 1929. Serial No. 279,516. PUBLISHED APRIL 9, 1929. Class 46.

278,253. CAKE CONFECTIONS. H. C. BRILL COMPANY, INC., Newark, N. J.
Filed January 26, 1929. Serial No. 278,454. PUBLISHED AUGUST 6, 1929. Class 46.

278,254. GOLF BALLS. THE WORTHINGTON BALL COMPANY, Elyria, Ohio.
Filed November 8, 1928. Serial No. 274,999. PUBLISHED SEPTEMBER 23, 1930. Class 22.

278,255. COFFEE, TEA, AND RICE. SAMUEL S. BEARD & COMPANY, INC., New York, N. Y.
Filed July 17, 1928. Serial No. 269,709. PUBLISHED SEPTEMBER 16, 1930. Class 46.

278,256. TIRE-INFLATING DEVICES—NAMELY, PRESSURE-REGULATING VALVES, AIR-HOSE CONNECTIONS, AND AIR-FILTERING DEVICES. AEROMETRIC VALVE CORPORATION, Portland, Oreg.
Filed November 25, 1929. Serial No. 292,861. PUBLISHED JUNE 10, 1930. Class 13.

278,257. RUBBER TIRES FOR VEHICLES AND INNER TUBES FOR TIRES. UNITED STATES RUBBER COMPANY, New York, N. Y.
Filed October 12, 1929. Serial No. 291,032. PUBLISHED SEPTEMBER 30, 1930. Class 35.

278,258. CANNED TOMATO PASTE AND CANNED TUNA FISH. JOSEPH ANTOGNOLI & COMPANY, Chicago, Ill.
Filed September 23, 1929. Serial No. 290,112. PUBLISHED SEPTEMBER 16, 1930. Class 46.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

278,259. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) DICKINSON FUEL COMPANY, Charleston, W. Va. Filed Feb. 7, 1930. Serial No. 295,727.

EVERHOT

For Coal.
Claims use since Oct. 15, 1929.

278,260. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CORNELL ELECTRIC MANUFACTURING CO. INC., Long Island City, N. Y. Filed Apr. 27, 1929. Serial No. 283,089.

QUIE TONE

For Electrical Filters for Use on Radio Sets to Suppress Noises Caused on the Light Line by Motors, Transformers, and Electrical Household Equipment.
Claims use since Apr. 4, 1929.

278,261. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MURRAY S. VOSSURG, doing business as The Eusey Company, Los Angeles, Calif. Filed June 3, 1929. Serial No. 285,001.

Eusey's Jell-A-Teen

For Gelatine Dessert Powder.
Claims use since Apr. 24, 1929.

278,262. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) J. E. MERGOTT COMPANY, Newark, N. J. Filed Nov. 14, 1929. Serial No. 292,410.

HOLD-a-PAK

For Cigarette-Package-Holding Case.
Claims use since Oct. 21, 1929.

278,263. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KOEHRING COMPANY, Milwaukee, Wis., assignor to The T. L. Smith Company, Milwaukee, Wis., a Corporation. Filed Aug. 26, 1929. Serial No. 289,029.

WEIGH-MIX

For Concrete-Mixing Machines.
Claims use since Aug. 7, 1929.

278,264. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN COOK & SONS, INC., Chicago, Ill. Filed July 12, 1929. Serial No. 286,978.

Herfort & Brand

The drawing is lined for the colors red and yellow.
For Canned Meats, Sliced Dried Beef, Canned Boneless Pickled Pigs' Feet, Canned Luncheon Spread, Canned Potted-Meat Food Products, Canned Potted-Meat Food Products with Cereal Added, Canned Corned-Beef Hash, Canned Vienna Sausage, Canned Vienna Sausage with Cereal Added, Canned Cooked Brains, Canned Roast Beef, Canned Breakfast Sausage, Canned Sausage with Cereal Added, Canned Tripe, and Canned Cooked Corned Beef.
Claims use since November, 1921.

278,265. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) MID-STATES STEEL & WIRE CO., Crawfordsville, Ind. Filed June 27, 1929. Serial No. 286,256.

ZINC BLENDED

For Wire Fence and Barbed Wire.
Claims use since May 15, 1929.

278,266. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MID-STATES STEEL & WIRE CO., Crawfordsville, Ind. Filed June 27, 1929. Serial No. 286,255.

ZINC BLENDED

For Plain Galvanized Wire and Galvanized Telephone Wire.
Claims use since May 15, 1929.

278,267. (CLASS 39. CLOTHING.) THE HAGERSTOWN SHOE & LEGGING CO., Hagerstown, Md. Filed June 7, 1929. Serial No. 285,205.

WEAR-MOR

For Outsoles for Boots and Shoes.
Claims use since Apr. 1, 1929.

278,268. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CHICAGO SANITARY PRODUCTS CO., Chicago, Ill. Filed May 17, 1930. Serial No. 300,710.

KLEENWELL

For Bar Polish, Brass Polish, Carpet Compound, Liquid Soap, Laundry Soap, Liquid and Powder Metal Polish, Mechanic's Liquid Soap, Chemically-Treated Polishing Cloth, Soap Powder, Sweeping Compound, Scouring Soap, Scouring Powder, and Toilet Soaps.
Claims use since June 28, 1922.

278,269. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) B. F. STURTEVANT COMPANY, Hyde Park, Boston, Mass. Filed Apr. 14, 1930. Serial No. 298,864.

SPEED HEATER

For Heaters Comprising a Heating Element and a Motor-Driven Fan.
Claims use since Oct. 2, 1929.

278,270. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) JEWELL ELECTRICAL INSTRUMENT CO., Chicago, Ill. Filed Apr. 3, 1930. Serial No. 298,335.

ANALYZER

For Electrical Testing Instruments for Radio Receivers and Tubes.
Claims use since August, 1927.

278,271. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MOTOR-CARS AND AERO-MOTORS COMPANY LTD. J. WALTER & CO., Prague-Jinonice, Czechoslovakia. Filed Jan. 21, 1930. Serial No. 295,041.

Walter

For Airplane Motors.
Claims use since Jan. 16, 1923.

278,272. (CLASS 15. OILS AND GREASES.) EMERY INDUSTRIES, INC., St. Bernard, Ohio. Filed Jan. 16, 1930. Serial No. 294,848.

PINE

For Candles.
Claims use since Oct. 15, 1929.

278,273. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Dec. 11, 1929. Serial No. 293,539.

Batra

For Woolen Piece Goods.
Claims use since Oct. 15, 1929.

278,274. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) E. N. CAMP & SONS CO., INC., Newnan, Ga. Filed Oct. 9, 1930. Serial No. 306,556.

CAMP

For Stalk Cutters, Plow Stocks, and Guano Distributors.
Claims use since Jan. 1, 1905.

278,275. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TOMATO PRODUCTS COMPANY, Paoli, Ind. Filed Aug. 23, 1930. Serial No. 304,982.

ORLEANS

For Tomato Paste, Tomato Purée, Canned Tomatoes, and Tomato Catsup.
Claims use since September, 1923.

278,276. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) SILENT AUTOMATIC CORPORATION, Detroit, Mich. Filed July 30, 1930. Serial No. 304,019.

DRAFT STABILIZER

For Draft Check Dampers.
Claims use since Jan. 1, 1929.

278,277. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BLANKE-BAER EXTRACT AND PRESERVING COMPANY, St. Louis, Mo. Filed June 19, 1930. Serial No. 302,982.

MRS. WINSTON

For Jellies, Fruit Butters, Fruit Preserves, Maple Syrup, Olives, Pickles, Salad Dressing, Peanut Butter, and Mustard.
Claims use since August, 1918, on jellies, fruit butters, and fruit preserves; since Aug. 3, 1929, on maple syrup; since June 13, 1927, on olives, pickles, and salad dressing; and since Jan. 6, 1927, on peanut butter and mustard.

278,278. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HANCOCK-NELSON MERCANTILE COMPANY, Minnesota Transfer, Minn. Filed May 31, 1930. Serial No. 301,912.

ARCO

For Malt Syrup.
Claims use since May 1, 1928.

LABELS

REGISTERED DECEMBER 9, 1930

38,354.—*Title:* TODAY'S FRESH BREAD. For Bread. JOHN L. ALLINE, Cleveland Heights, Ohio. Published June 7, 1930.

38,355.—*Title:* ARANT'S CRACK SHOT. For Medicine. JOHN E. ARANT, Manning, S. C. Published June 12, 1930.

38,356.—*Title:* THE GOOD LUCK BRAND. For Sherry Beverage. CALIFORNIA GRAPE JUICE CORPORATION, St. Louis, Mo. Published April 1, 1930.

38,357.—*Title:* CASEY'S COMPOUND. For an Alterative Tonic. J. H. CASEY, Portland, Oreg. Published August 1, 1930.

38,358.—*Title:* PUZZLE OF MAGIC 16 AND FIFTEEN. For Game Apparatus Employing a Graduated Board and Counters Therefor to be Used with Playing Cards. THE EMBOSSING COMPANY, Albany, N. Y. Published March 10, 1930.

38,359.—*Title:* DR. LA MOND'S PRESCRIPTION. For a Preparation for Treating Nasal Catarrh, Hay Fever, Asthma, Tuberculosis. HENRY M. FLETCHER, Plainview, Tex. Published August 17, 1929.

38,360.—*Title:* RED HEAD NO. 6 PORTABLE ACETYLENE GENERATOR. For Acetylene Generators. THE HARRIS CALORIFIC COMPANY, Cleveland, Ohio. Published September 8, 1930.

38,361.—*Title:* D. H. & G. H. BELL. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published March 3, 1930.

38,362.—*Title:* STOVBRITE. For Stove Polish. MIDWAY CHEMICAL CO., Chicago, Ill. Published May 12, 1930.

38,363.—*Title:* ROACH DED. For a Preparation for Killing Roaches. MIDWAY CHEMICAL CO., Chicago, Ill. Published July 1, 1930.

38,364.—*Title:* HOWARD H. JONES COLLEGIATE FOOTBALL GAME. For Football Game Board. MUNICIPAL SERVICE CORPORATION, Los Angeles, Calif. Published August 26, 1930.

38,365.—*Title:* CHIKLOH. For Poultry Medicine. P. J. OESTERLING & SON INC., Butler, Pa. Published September 18, 1930.

38,366.—*Title:* RUBBER OIL. For Shoe Oil. RUBBER OIL MANUFACTURING COMPANY, Aberdeen, Wash. Published June 6, 1930.

38,367.—*Title:* SAW TONE. For Medicinal Preparation. HORACE MAYNARD SAWYER, Texarkana, Tex. Published August 20, 1929.

38,368.—*Title:* FLEISCHMANN'S BAKING POWDER. For Baking Powder. STANDARD BRANDS INCORPORATED, New York, N. Y. Published April 16, 1930.

38,369.—*Title:* HOP-BALL. For Game. OSCAR EUGENE SWEARINGEN, Mattoon, Ill. Published August 29, 1930.

38,370.—*Title:* NOX-EM-OUT. For Insecticides. VINCO MANUFACTURING CO., Charlotte, N. C. Published February 24, 1930.

38,371.—*Title:* VITA-MINT CHEWING GUM. For Chewing Gum. VITA-MINT INC., New York, N. Y. Published August 1, 1930.

38,372.—*Title:* WALDORF. For Toilet Paper. SCOTT PAPER COMPANY, Chester, Pa. Published June 28, 1930.

PRINTS

REGISTERED DECEMBER 9, 1930

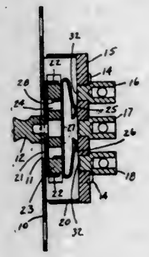
12,854.—*Title:* INSTRUCTIONS FOR INSTALLING AMPERITE LINE VOLTAGE CONTROL. For Line-Voltage-Control Devices for Radio Sets. AMPERITE CORPORATION, New York, N. Y. Published September 10, 1930.

12,855.—*Title:* IT'S A GOOD RULE THAT WORKS BOTH WAYS. For Rulers. GEORGE B. GRAFF COMPANY, Cambridge, Mass. Published September 29, 1930.

REISSUES

DECEMBER 9, 1930

17,897. ELECTRIC SWITCH. CARL BRAMMING, Chicago, Ill., assignor to Delta Electric Company, Marion, Ind., a Corporation. Filed Oct. 20, 1930. Serial No. 490,041. Original No. 1,740,535, dated Dec. 24, 1929, Serial No. 258,271, filed Mar. 1, 1928. 8 Claims. (Cl. 200—16.)



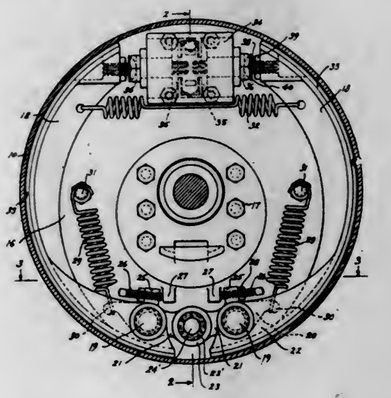
1. A switch of the character described, comprising a housing, a plurality of contact members mounted thereon, spring contactors adapted to engage and make contact therewith, a carriage for supporting said spring contactors, said carriage having an opening therein, a support upon which said carriage is adapted to slide having a recess therein and a ball bearing adapted to ride within the opening of said carriage in position to register with the recess in said support for resiliently holding said carriage in predetermined position under the spring tension of said spring contactors.

17,898. PROCESS FOR THE TREATMENT OF HYDROCARBONS. SAMUEL C. CARNEY, San Francisco, Calif., assignor to Shell Petroleum Corporation, a Corporation of Virginia. Filed Oct. 18, 1930. Serial No. 490,559. Original No. 1,768,827, dated July 1, 1930, Serial No. 45,661, filed July 23, 1925. 9 Claims. (Cl. 260—169.)

1. That process for treatment of hydrocarbons having substantially the characteristic of natural gas, which consists in splitting the hydrocarbon mixture into a liquid component and a vaporous component by rectification; then condensing a part of said vaporous component to form a secondary liquid component; then expanding said secondary liquid component to effect a cooling action; and subjecting the vaporous component while under pressure to the cooling action of the expansion of said secondary liquid component to condense said last named vaporous component.

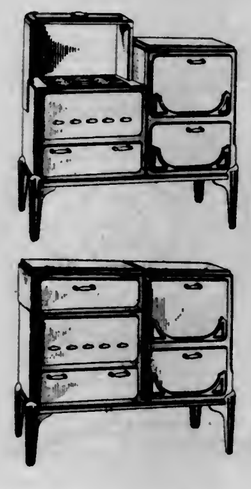
17,899. VEHICLE BRAKE MECHANISM. NIELS A. CHRISTENSEN, Cleveland, Ohio. Filed Oct. 1, 1930. Serial No. 485,786. Original application filed June 12, 1926, Serial No. 115,604. Renewed May 12, 1928. Original No. 1,718,526, dated June 25, 1929. 4 Claims. (Cl. 188—78.)

1. In brake mechanism of the class described, the combination with a rotatable brake drum, of a brake support, a pin on said support, anchor pin links pivotally mounted on said pin, a pair of brake shoes engageable with the drum, each shoe being connected near one end to one of said links, adjustable means associated with the link-supported end of each shoe to limit its swinging movement to release position, means acting on the free ends of said



shoes to simultaneously move them into braking engagement with said drum, and means to release said shoes from said drum.

17,900. RANGE OR SIMILAR ARTICLE. ARTHUR STOCKSTROM, St. Louis, Mo., assignor to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed June 9, 1930. Serial No. 36,002. Term of patent 14 years. Original No. 79,110, dated July 30, 1929, Serial No. 30,780, filed Apr. 3, 1929, for 14 years.

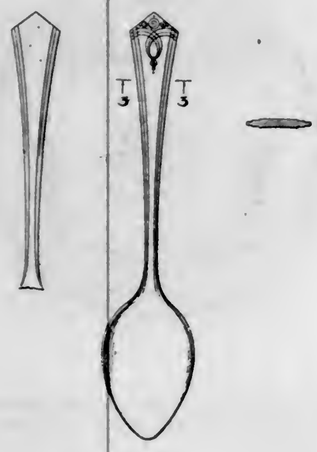


The ornamental design for a range or similar article as shown.

DESIGNS

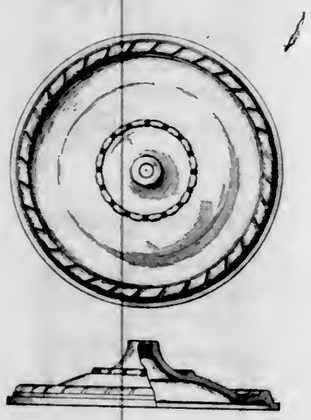
DECEMBER 9, 1930

82,719. SPOON OR SIMILAR ARTICLE. GROSVENOR N. ALLEN, MARY G. PARKER, and ELMER H. KREPS, Oneida, N. Y., assignors to Oneida Community, Limited, Oneida, N. Y., a Corporation of New York. Filed Oct. 16, 1930. Serial No. 37,278. Term of patent 14 years.



The ornamental design for a spoon or similar article as shown and described.

82,720. BASE FOR BIRD-CAGE STANDS OR SIMILAR ARTICLES. SAMUEL BABITZKY, Chicago, Ill. Filed June 23, 1930. Serial No. 36,134. Term of patent 3½ years.



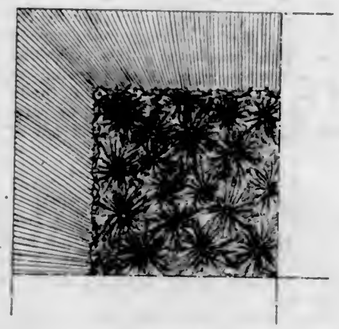
The ornamental design for a base for bird cage stands or similar articles, as shown.

82,721. LACE. BEN A. BALL, Pawtucket, R. I., assignor to American Textile Company, Inc., Pawtucket, R. I., a Corporation of Rhode Island. Filed July 24, 1930. Serial No. 36,452. Term of patent 7 years.



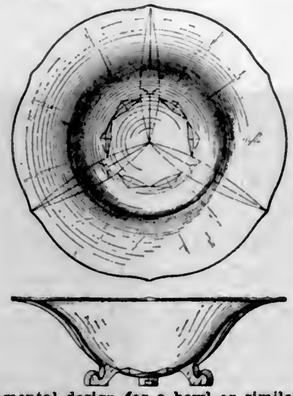
The ornamental design for lace, substantially as shown and described.

82,722. PAPER NAPKIN OR THE LIKE. RICHARD W. BEACH, Indianapolis, Ind., assignor to Beach & Arthur, Inc., Indianapolis, Ind., a Corporation of Indiana. Filed Nov. 11, 1929. Serial No. 33,406. Term of patent 3½ years.



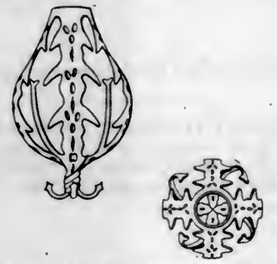
The ornamental design for paper napkin or the like, as shown and described.

82,723. BOWL OR SIMILAR ARTICLE. CHARLES C. BEAM, Pittsburgh, Pa., assignor to United States Glass Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 6, 1930. Serial No. 36,578. Term of patent 14 years.



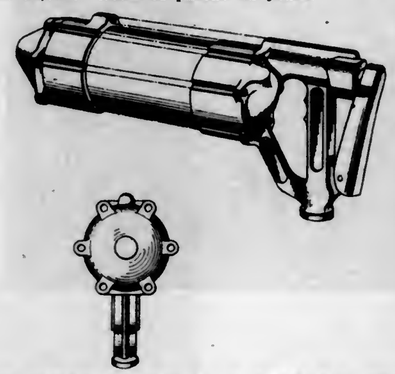
The ornamental design for a bowl or similar article, as shown and described.

82,724. ELECTRIC-LIGHT-BULB JACKET OR SIMILAR ARTICLE. HERMAN E. BLEIER, Chicago, Ill. Filed Dec. 27, 1929. Serial No. 33,946. Term of patent 14 years.



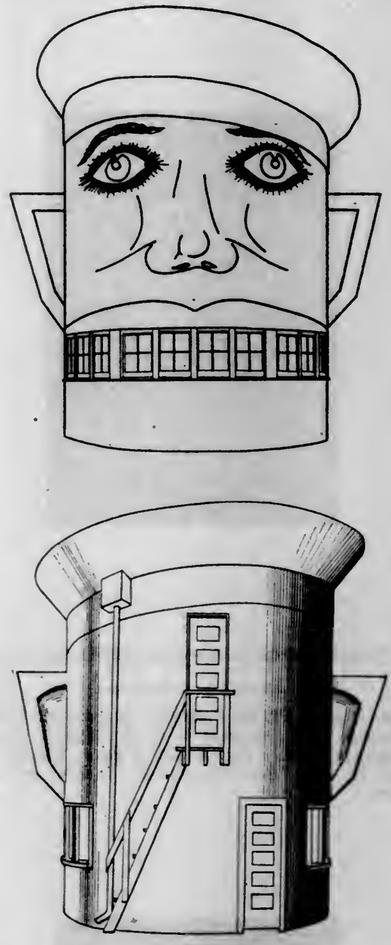
The ornamental design for an electric light bulb jacket or similar article as shown.

82,725. GREASE-GUN CASING. CLYDE G. BUTLER, Cincinnati, Ohio, assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio, a Corporation of Ohio. Continuation of application Serial No. 33,835, filed Dec. 18, 1929. This application filed Aug. 18, 1930. Serial No. 36,701. Term of patent 14 years.



The ornamental design for a grease gun casing as shown.

82,726. BUILDING. FRED D. CLARK, Kansas City, Mo. Filed July 28, 1930. Serial No. 36,503. Term of patent 14 years.



The ornamental design for a building, as shown.

82,727. BUCKLE. DWIGHT W. COULTAS, Cranston, R. I. Filed Sept. 11, 1930. Serial No. 36,930. Term of patent 3½ years.



The ornamental design for a buckle, substantially as shown.

82,728. DECORATIVE FABRIC. ANDREW L. COURTER, Paterson, N. J., assignor to C. K. Eagle & Co., Inc., New York, N. Y., a Corporation of Pennsylvania. Filed June 23, 1930. Serial No. 36,142. Term of patent 3½ years.



The ornamental design for a decorative fabric as shown.

82,729. DECORATIVE FABRIC. ANDREW L. COURTER, Paterson, N. J., assignor to C. K. Eagle & Co., Inc., New York, N. Y., a Corporation of Pennsylvania. Filed June 23, 1930. Serial No. 36,143. Term of patent 3½ years.



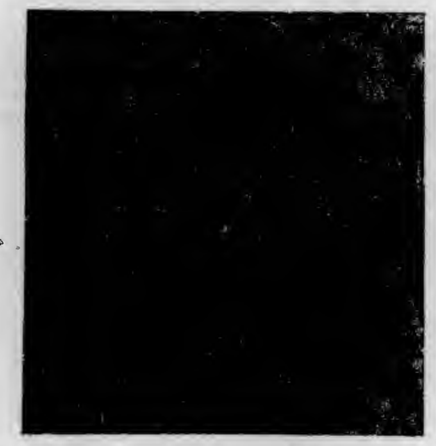
The ornamental design for a decorative fabric as shown.

82,730. DECORATIVE FABRIC. ANDREW L. COURTER, Paterson, N. J., assignor to C. K. Eagle & Co., Inc., New York, N. Y., a Corporation of Pennsylvania. Filed June 23, 1930. Serial No. 36,144. Term of patent 3½ years.



The ornamental design for a decorative fabric as shown.

82,731. DECORATIVE FABRIC. ANDREW L. COURTER, Paterson, N. J., assignor to C. K. Eagle & Co., Inc., New York, N. Y., a Corporation of Pennsylvania. Filed June 23, 1930. Serial No. 36,145. Term of patent 3½ years.



The ornamental design for a decorative fabric as shown.

82,732. DECORATIVE FABRIC. ANDREW L. COURTER, Paterson, N. J., assignor to C. K. Eagle & Co., Inc., New York, N. Y., a Corporation of Pennsylvania. Filed June 23, 1930. Serial No. 36,146. Term of patent 3½ years.



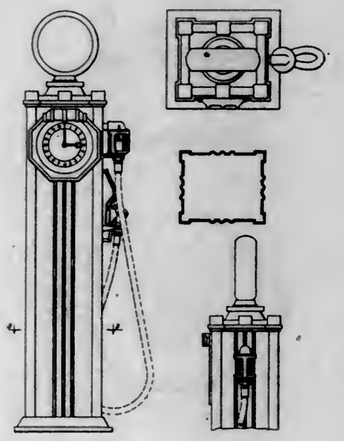
The ornamental design for a decorative fabric as shown.

82,733. CAR FOR AMUSEMENT DEVICES. HENRY F. CUSHNER, Brooklyn, N. Y. Filed Sept. 23, 1930. Serial No. 37,058. Term of patent 14 years.



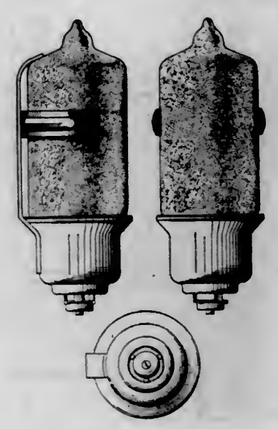
The ornamental design for a car for amusement devices, as shown and described.

82,734. LIQUID-DISPENSING PUMP. EARL E. EICKMEYER, Dayton, Ohio, assignor to The Dayton Pump & Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Filed June 23, 1930. Serial No. 36,131. Term of patent 3½ years.



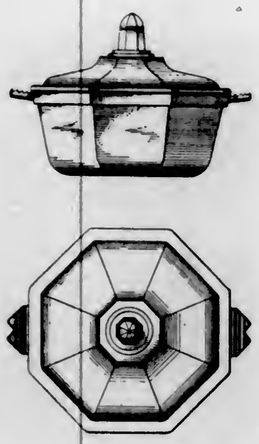
The ornamental design for a liquid dispensing pump as shown.

82,735. FIRE-EXTINGUISHER UNIT. POWELL EVANS and MALCOLM P. STONEY, Philadelphia, Pa. Filed July 9, 1930. Serial No. 36,305. Term of patent 14 years.



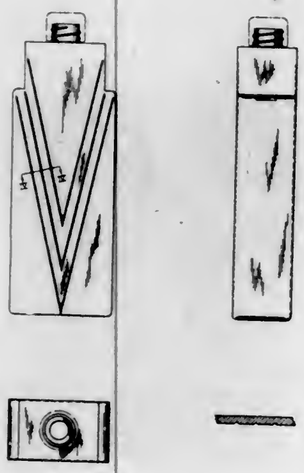
The ornamental design for a fire extinguisher unit substantially as shown.

82,736. CASSEROLE OR SIMILAR ARTICLE. SIMON W. FARBER, Brooklyn, N. Y., assignor to S. W. Farber, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Sept. 25, 1930. Serial No. 37,070. Term of patent 14 years.



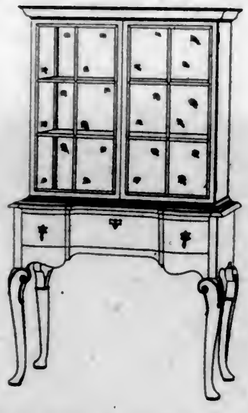
The ornamental design for a casserole or similar article, as shown.

82,737. BOTTLE. RALPH C. FAULKNER, Brooklyn, N. Y., assignor to E. R. Squibb & Sons, New York, N. Y., a Corporation of New York. Filed Oct. 3, 1930. Serial No. 37,120. Term of patent 14 years.



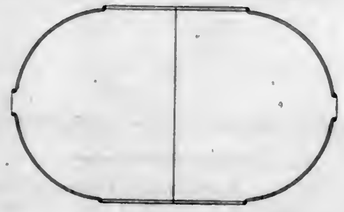
The ornamental design for a bottle substantially as shown.

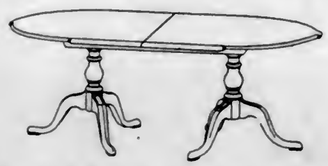
82,738. CABINET. WILLIAM A. FRENCH, Minneapolis, Minn. Filed Oct. 20, 1930. Serial No. 37,321. Term of patent 3½ years.



The ornamental design for a cabinet, as shown.

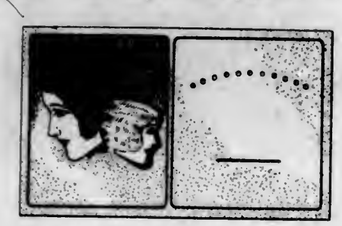
82,739. TABLE. WILLIAM A. FRENCH, Minneapolis, Minn. Filed Oct. 20, 1930. Serial No. 37,322. Term of patent 3½ years.





The ornamental design for a table, as shown.

82,740. DISPLAY CARD OR SIMILAR ARTICLE. SOLOMON H. GOLDBERG, Chicago, Ill., assignor to The Hump Hairpin Manufacturing Co., Chicago, Ill., a Corporation of West Virginia. Filed May 2, 1930. Serial No. 35,480. Term of patent 14 years.



The ornamental design for a display card or similar article, as shown and described.

CARNEGIE LIBRARY OF ATLANTA

82,741. FRINGE. ISRAEL GRABELSKY, New York, N. Y., assignor to Universal Fringe Works, Inc., a Corporation of New York. Filed Sept. 4, 1930. Serial No. 36,865. Term of patent 7 years.



The ornamental design for a fringe, as shown.

82,742. GAS HEATER. WILLIAM A. GRISWOLD, Nashville, Tenn. Filed Sept. 4, 1930. Serial No. 36,857. Term of patent 3½ years.



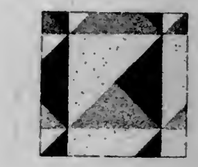
The ornamental design for a gas heater as shown.

82,743. KNITTED GARMENT. MIRIAM GROSS, Milwaukee, Wis., assignor to Miriam Gross Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 1, 1930. Serial No. 37,104. Term of patent 7 years.



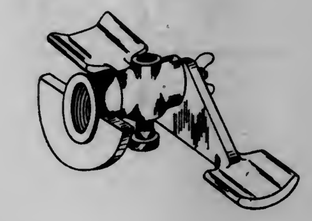
The ornamental design for a knitted garment as shown and described.

82,744. TEXTILE FABRIC. VIRGINIA HAMILL, New York, N. Y., assignor to W. S. Libbey Company, a Corporation of Maine. Filed Nov. 4, 1929. Serial No. 33,328. Term of patent 3½ years.



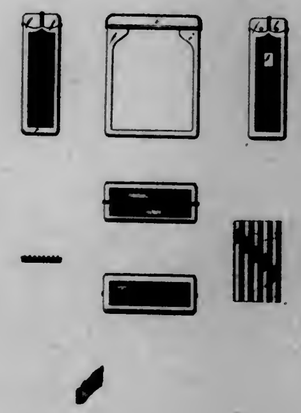
The ornamental design for a textile fabric or the like, as shown and described.

82,745. LAWN-SPRINKLER NOZZLE. PAUL E. HEAL, Marion, Ind. Filed Nov. 21, 1929. Serial No. 33,516. Term of patent 3½ years.



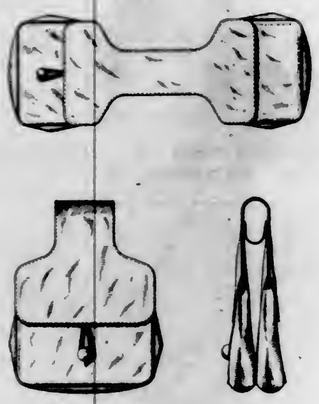
The ornamental design for a lawn sprinkler nozzle as shown.

82,746. CIGARETTE-PACKAGE HOLDER. WILLIAM C. HIRING, Newark, N. J., assignor to J. E. Mergott Company, Newark, N. J., a Corporation of Delaware. Filed Nov. 8, 1929. Serial No. 33,372. Term of patent 14 years.



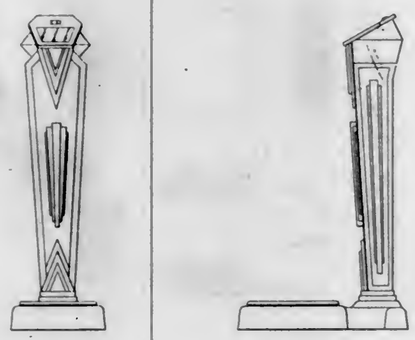
The ornamental design for a cigarette package holder, as shown.

82,747. LADY'S HAND BAG. NELLIE B. HUSSEY, Peking, China. Filed June 27, 1930. Serial No. 36,199. Term of patent 14 years.



The ornamental design for a lady's hand bag, substantially as shown.

82,748. SCALE. HARRY E. KNUPP, Detroit, Mich., assignor to Caille Motor Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 21, 1930. Serial No. 37,333. Term of patent 7 years.



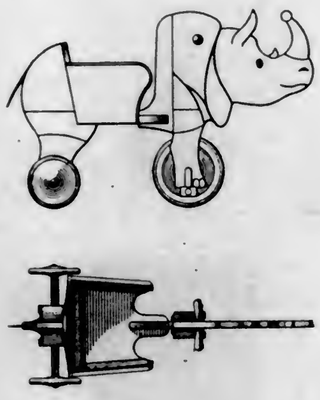
The ornamental design for a scale substantially as shown.

82,749. TABLE LIGHTER. CECIL H. LAWRENCE, Attleboro, Mass., assignor to Evans Case Company, a Corporation of Massachusetts. Filed Sept. 17, 1930. Serial No. 37,004. Term of patent 7 years.



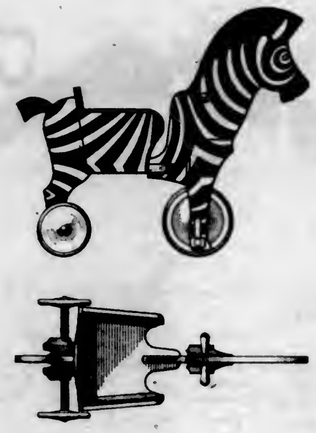
The ornamental design for a table lighter substantially as shown and described.

82,750. CHILD'S VEHICLE. WILLIAM B. MILES, Downers Grove, Ill. Filed Aug. 13, 1930. Serial No. 36,656. Term of patent 3½ years.



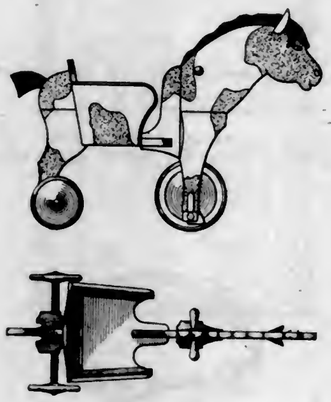
The ornamental design for a child's vehicle as shown.

82,751. CHILD'S VEHICLE. WILLIAM B. MILES, Downers Grove, Ill. Filed Aug. 13, 1930. Serial No. 36,657. Term of patent 3½ years.



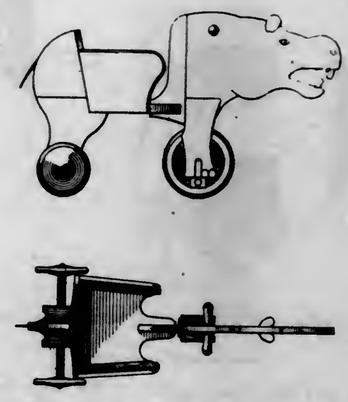
The ornamental design for a child's vehicle, as shown.

82,752. CHILD'S VEHICLE. WILLIAM B. MILES, Downers Grove, Ill. Filed Aug. 13, 1930. Serial No. 36,658. Term of patent 3½ years.



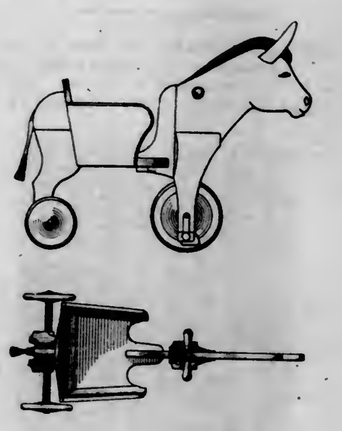
The ornamental design for a child's vehicle, as shown.

82,753. CHILD'S VEHICLE. WILLIAM B. MILES, Downers Grove, Ill. Filed Aug. 13, 1930. Serial No. 36,659. Term of patent 3½ years.



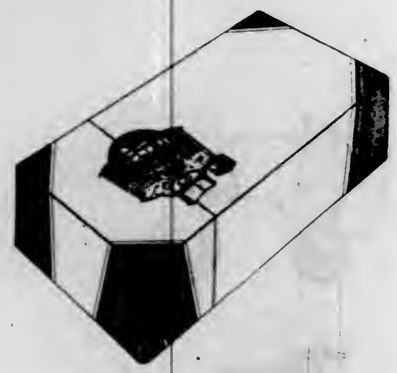
The ornamental design for a child's vehicle, as shown.

82,754. CHILD'S VEHICLE. WILLIAM B. MILES, Downers Grove, Ill. Filed Aug. 13, 1930. Serial No. 36,660. Term of patent 3½ years.



The ornamental design for a child's vehicle, as shown.

82,755. CARTON. PAUL R. MILLER, New York, N. Y., assignor to Theo. J. Lapres, Inc., Atlantic City, N. J. Filed Sept. 6, 1930. Serial No. 36,887. Term of patent 7 years.



The ornamental design for a carton, as shown and described.

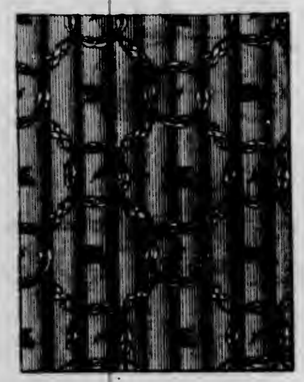
82,756. BADGE. WILLIAM J. OTTS, San Francisco, Calif. Filed Sept. 5, 1930. Serial No. 36,867. Term of patent 3½ years.





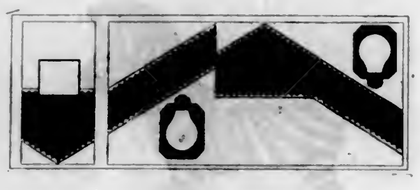
The ornamental design for a shoe ornament as shown.

82,757. TEXTILE FABRIC. CHARLES F. PEARCE, Jr., Chicago, Ill., assignor to Burton-Dixie Corporation, Chicago, Ill., a Corporation of Illinois. Filed Aug. 7, 1930. Serial No. 36,587. Term of patent 14 years.



The ornamental design for textile fabric, as shown and described.

82,758. WRAPPER FOR A BOX OR CARTON. HERBERT E. PLISHKER, Flushing, N. Y., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Mar. 1, 1930. Serial No. 34,710. Term of patent 3½ years.



The ornamental design for a wrapper for a box or carton as shown.

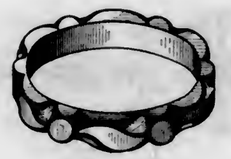
82,759. SHOE ORNAMENT. ORLANDO RICHARD RECCHIA, Cranston, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Filed Aug. 7, 1930. Serial No. 36,583. Term of patent 3½ years.





The ornamental design for a shoe ornament as shown.

82,760. RING. ABRAHAM SAGER, Chicago, Ill. Filed Jan. 16, 1930. Serial No. 34,150. Term of patent 7 years.



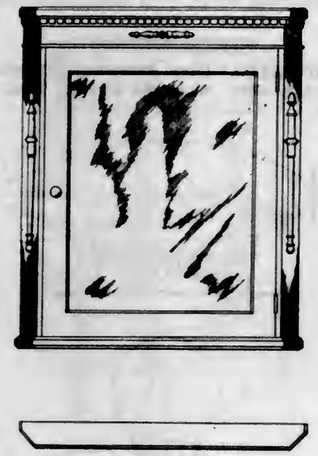
The ornamental design for a ring as shown.

82,761. SHOE. ROGER A. SELBY, Portsmouth, Ohio, assignor to The Selby Shoe Company, Portsmouth, Ohio, a Corporation of Ohio. Filed July 24, 1929. Serial No. 32,193. Term of patent 3½ years.



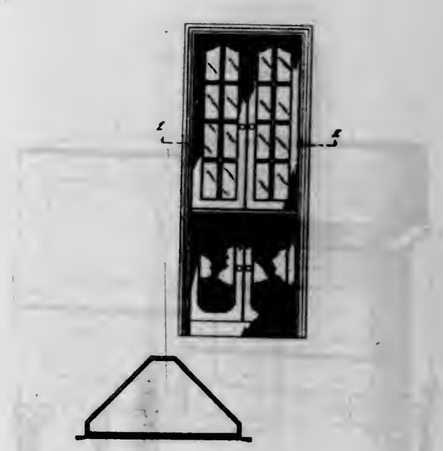
The ornamental design for a shoe, as shown and described.

82,762. MEDICINE CABINET. GEORGE A. SIMONS and GEORGE FREEBERG, Minneapolis, Minn., assignors to Simons Millwork, Inc., Minneapolis, Minn., a Corporation of Minnesota. Filed May 20, 1929. Serial No. 31,816. Term of patent 14 years.



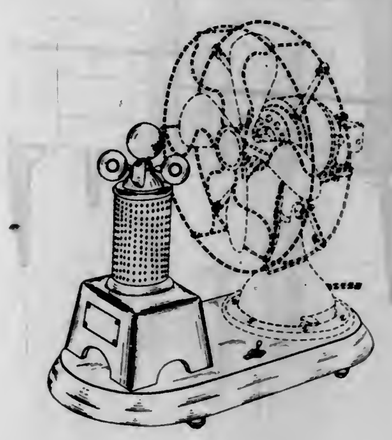
The ornamental design for a medicine cabinet as shown.

82,763. CORNER CHINA CLOSET. GEORGE A. SIMONS and GEORGE FREEBERG, Minneapolis, Minn., assignors to Simons Millwork, Inc., Minneapolis, Minn., a Corporation of Minnesota. Filed June 10, 1929. Serial No. 31,625. Term of patent 14 years.



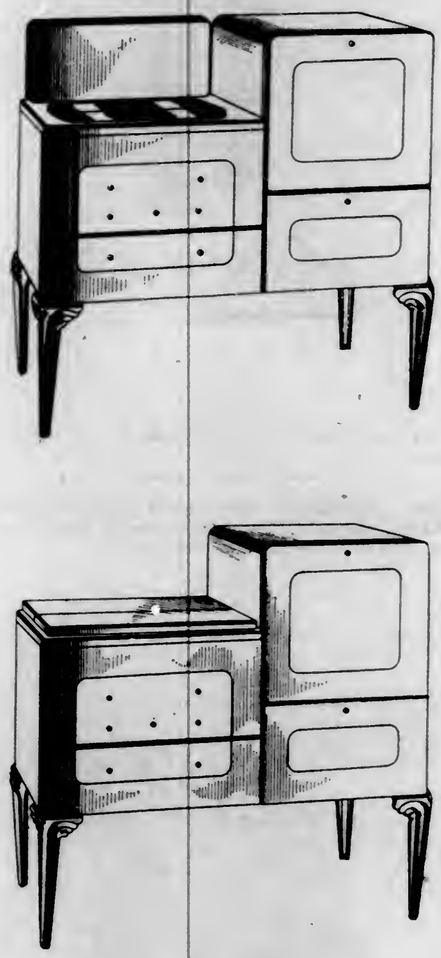
The ornamental design for a corner china closet as shown.

82,764. OZONIZING APPARATUS. WELLINGTON J. SMITH, Cleveland, Ohio. Filed Apr. 3, 1930. Serial No. 35,145. Term of patent 3½ years.



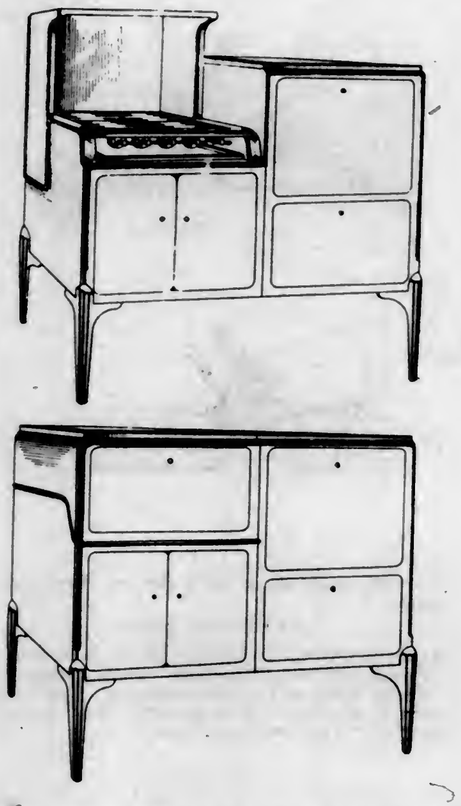
The ornamental design for ozonizing apparatus substantially as shown.

82,765. RANGE. ARTHUR STOCKSTROM, St. Louis, Mo., assignor to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed Sept. 26, 1929. Serial No. 32,880. Term of patent 14 years.



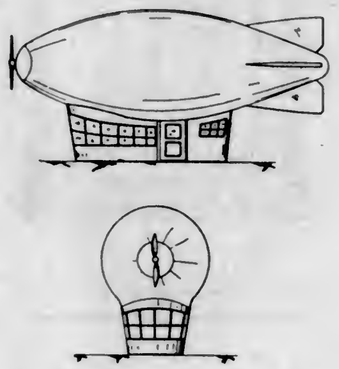
The ornamental design for a range, as shown and described.

82,766. RANGE. ARTHUR STOCKSTROM and ALMER H. BRODBECK, St. Louis, Mo., assignors to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed Aug. 22, 1929. Serial No. 32,515. Term of patent 14 years.



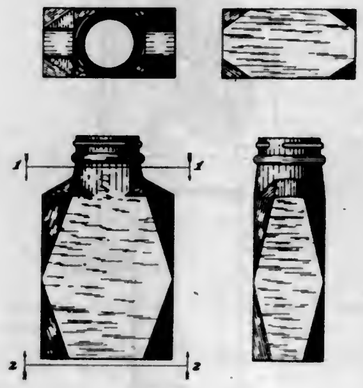
The ornamental design for a range, as shown and described.

82,767. BUILDING. DAVID STROMBERG, Cleveland, Ohio. Filed Oct. 9, 1930. Serial No. 37,200. Term of patent 14 years.



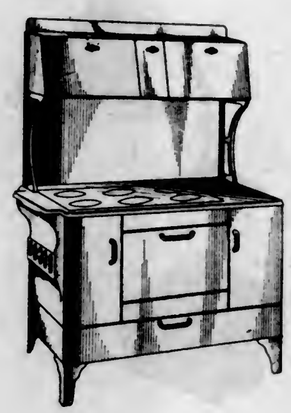
An ornamental design for a building, substantially as shown in the drawing.

82,768. BOTTLE OR SIMILAR CONTAINER. WALTER D. TEAGUE, Forest Hills, N. Y., assignor to Turner Glass Corporation, Terre Haute, Ind., a Corporation of Indiana. Filed Sept. 8, 1930. Serial No. 36,905. Term of patent 3½ years.



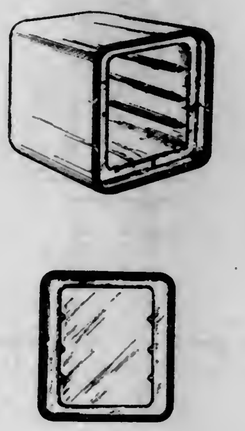
The ornamental design for a bottle or similar container as shown.

82,769. COAL RANGE. JACOB TELLER, Chicago, Ill., assignor to Teller Corporation, Chicago, Ill., a Corporation of Tennessee. Filed Apr. 11, 1930. Serial No. 35,224. Term of patent 7 years.



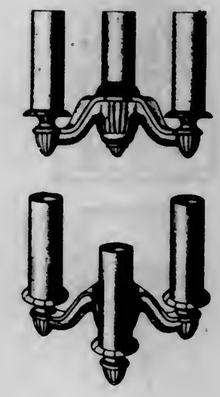
The ornamental design for a coal range, as shown.

82,770. REFRIGERATOR COOLING UNIT. MATSON C. TERRY, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 20, 1930. Serial No. 34,980. Term of patent 14 years.



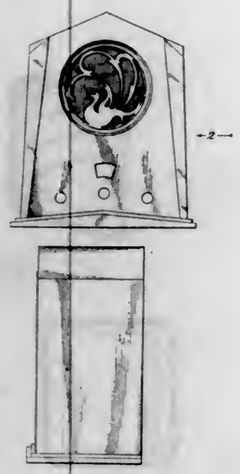
The ornamental design for a refrigerator cooling unit substantially as shown.

82,771. LAMP STAND BRACKET. ALBERT A. WITZ, Chicago, Ill. Filed Apr. 17, 1930. Serial No. 35,280. Term of patent 3½ years.



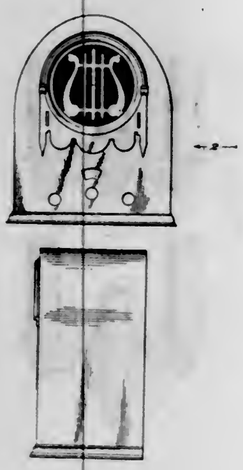
The ornamental design for a lamp stand bracket, as shown.

82,772. RADIOCABINET. ELMER W. ZWIEBEL, Los Angeles, Calif. Filed Oct. 8, 1930. Serial No. 37,179. Term of patent 3½ years.



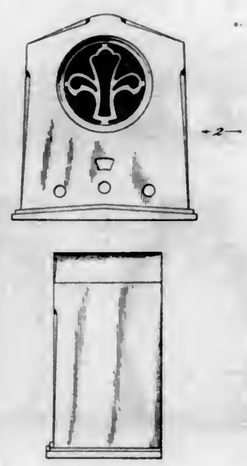
The ornamental design for a radio cabinet as shown.

82,773. RADIOCABINET. ELMER W. ZWIEBEL, Los Angeles, Calif. Filed Oct. 8, 1930. Serial No. 37,180. Term of patent 3½ years.



The ornamental design for a radio cabinet as shown.

82,774. RADIOCABINET. ELMER W. ZWIEBEL, Los Angeles, Calif. Filed Oct. 8, 1930. Serial No. 37,181. Term of patent 3½ years.



The ornamental design for a radio cabinet as shown.

82,775. TABLE THERAPEUTIC LAMP. FRITZ A. ANDERSON, Milton, Wis., assignor to The Burdick Corporation, Milton, Wis., a Corporation of Delaware. Filed Aug. 26, 1929. Serial No. 32,543. Term of patent 7 years.



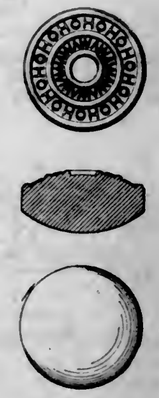
The ornamental design for a table therapeutic lamp, as shown.

82,776. FLOOR-TYPE THERAPEUTIC LAMP. FRITZ A. ANDERSON, Milton, Wis., assignor to The Burdick Corporation, Milton, Wis., a Corporation of Delaware. Filed Aug. 26, 1929. Serial No. 32,544. Term of patent 7 years.



The ornamental design for a floor type therapeutic lamp as shown.

82,777. CAKE OF SOAP. CHARLES A. CRARY, Wyoming, Ohio. Filed June 18, 1930. Serial No. 36,095. Term of patent 14 years.

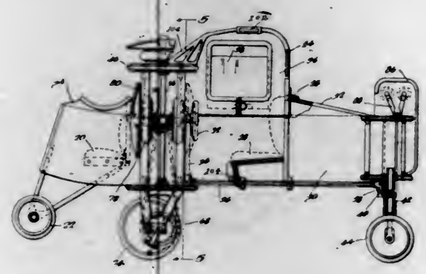


The ornamental design for a cake of soap, as shown.

PATENTS

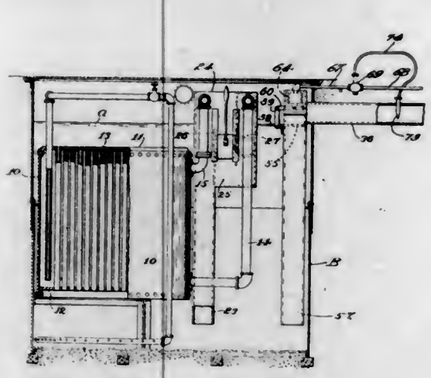
GRANTED DECEMBER 9, 1930

1,783,949. AIRCRAFT TOY BOMBER. FREDERICK A. BERG, Chicago, Ill. Filed Dec. 13, 1926. Serial No. 154,567. 5 Claims. (Cl. 208—42.)



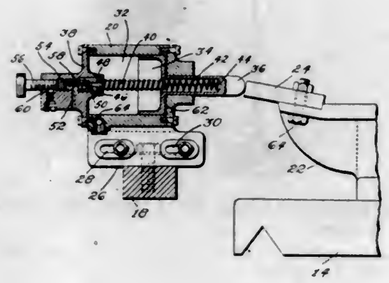
1. An aircraft toy vehicle, comprising a body and means for seating a plurality of persons therein, and propeller means for said vehicle adapted to be operated by one of said persons, and a concealed seat for a passenger in the vehicle, said seat positioned beneath an opening in the fuselage for a removable gun mounting.

1,783,950. CATCH BASIN FOR SOIL-WATER-HEAT RECLAIMERS. FRED S. BOLTZ, Mansfield, Mass. Filed June 14, 1928. Serial No. 285,455. 4 Claims. (Cl. 257—5.)



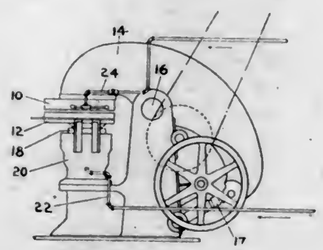
2. In combination with a catch basin, means for admitting water into said basin at inlet ports of different elevation, and temperature controlled means responsive to the temperature of the water being admitted whereby when the water is above a predetermined temperature the water will be admitted to the basin at the higher point and whereby when the temperature is below the predetermined degree the water will be discharged into the basin at the lower point in combination with a heat reclaimer positioned within said basin, said heat reclaimer having a chamber, an inlet to and an outlet therefrom for water to be heated, and means for preventing the soil water from mingling with the clean water.

1,783,951. PATTERN-COPYING MACHINE. ERNEST F. BONSER, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 23, 1929, Serial No. 394,701, and in Great Britain Oct. 9, 1928. 11 Claims. (Cl. 142—15.)



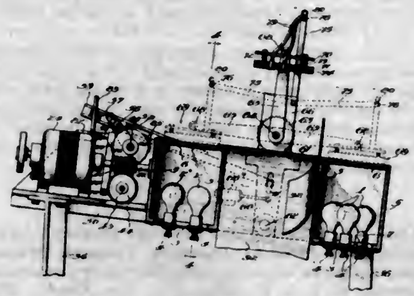
1. In a copying lathe, a main frame, a swing frame arranged to carry a model and a block, a model wheel carriage and a cutter carriage arranged to traverse along the main frame beside the swing frame, and shock absorbing means comprising co-operating parts respectively mounted on the swing frame and on one of the carriages.

1,783,952. PLATING SKINS. AUGUST C. BRILL, Oberursel, near Frankfort-on-the-Main, Germany, assignor to The Turner Tanning Machinery Company, Portland, Me., a Corporation of Maine. Filed June 8, 1926, Serial No. 114,491, and in Germany Aug. 1, 1925. 22 Claims. (Cl. 149—23.)



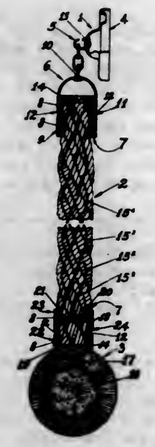
22. That improvement in methods of plating skins which comprises placing a skin over a flat surface which merges into a conical surface, arranging the skin so that the conical surface points in a direction toward the center of the skin, tensioning a portion of the skin by causing it to conform to the conical surface, and subjecting the flat and the tensioned portions of the skin to pressure and to heat on one surface thereof while the tensioned portion is retained in the conical form, whereby wrinkles, folds or tucks are effaced and the skin is set in a smooth sheet.

1,783,953. PICTURE-PRINTING MACHINE. STEPHEN L. BRIGGS, Chicago, Ill. Filed Dec. 1, 1926. Serial No. 151,885. 13 Claims. (Cl. 95—73.)



1. A machine for printing pictures from films comprising in combination separate independently controlled light exposure elements consisting of a picture printing zone and a border printing zone, a pressure pad, means cooperatively associated with the pressure pad for transferring picture paper from one printing zone to the other printing zone, and positive automatic means for actuating said pressure pad to successively cooperate without interruption with both of said zones when said positive automatic means is actuated.

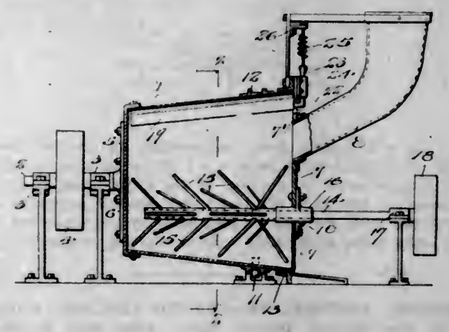
1,783,954. AUTOMOBILE HANDGRIP. REUBEN BRODER, New York, N. Y. Filed July 11, 1929. Serial No. 377,464. 10 Claims. (Cl. 105—354.)



1. A body portion or cord assembly for a vehicle hand grip, comprising a plurality of twisted cords having a spring wire within each cord and the said plurality of cords and wires twisted together in a rope-like assembly each spring wire formed of the same convolutions as its respective cord and forming a coil spring to maintain the shape of the respective convolutions and to impart resiliency to said hand grip.

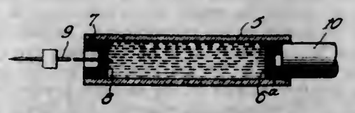
2. A body portion or cord assembly for a vehicle hand grip, comprising a plurality of twisted cords, some of the cords having reenforcing spring wires therein, and the wires twisted together with the cords to form coil springs in the cord assembly for imparting resiliency to said assembly.

1,783,955. COATING MACHINE. MARTIN T. CHAMBERLAIN, Joliet, Ill. Filed Nov. 30, 1928. Serial No. 322,774. 8 Claims. (Cl. 83—73.)



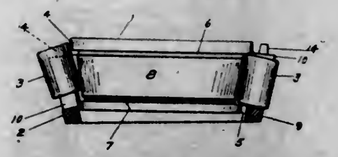
1. The combination in a coating machine of the non-pugging type with a rotary drum having a feed inlet and a discharge outlet for non-flowing, non-plastic fibrous material and a binder, of means within the drum for bringing into intimate relation the fibrous material and binder, whereby the former is coated by the latter.

1,783,956. MEDICAMENT-DISPENSING CARTRIDGE. HARVEY S. COOK, Valparaiso, Ind., assignor to Cook Laboratories, Inc., a Corporation of Delaware. Original application filed July 1, 1921, Serial No. 481,997. Divided and this application filed Dec. 20, 1926. Serial No. 155,838. 3 Claims. (Cl. 128—218.)



1. A cartridge for hypodermic syringes comprising a sealed liquid container embodying a rigid tube of substantially uniform bore and stoppers in opposite ends of the tube, said stoppers comprising substantially cup-shaped thick walled plugs of resilient material arranged with their cavities facing outwardly, said plugs adapted one to be pierced by a canula and the other to be forced through the tube to expel its contents through such canula.

1,783,957. ROLLER BEARING. GEORGE A. DARBY, East Orange, N. J., assignor to Orange Roller Bearing Company, Orange, N. J., a Corporation of New Jersey. Filed Aug. 12, 1927. Serial No. 212,391. 5 Claims. (Cl. 308—218.)



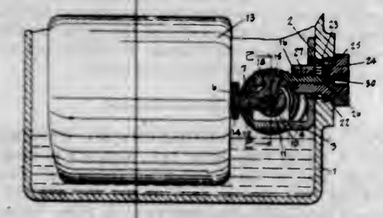
1. A conical cage for the rollers of a tapered roller bearing comprising annular ends and connecting spaced bridges providing roller pockets, each pair of adjacent bridges having opposed curved bearing surface portions extending from the periphery of the cage inwardly almost but not quite to the roller pitch line and closely conforming to and providing seats for the rollers for which the cage is adapted, and also having opposed flare surface portions respectively extending inwardly from and in planes substantially tangential to the said curved surface portions at their innermost points.

1,783,958. ARCH OR TRUSS SHOE. LOUIS DAVIDSON, New York, N. Y. Filed Dec. 10, 1926. Serial No. 153,891. 7 Claims. (Cl. 189—36.)



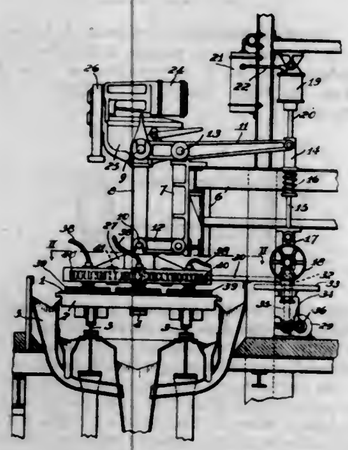
3. In a long span arch construction, an arch or truss shoe of substantially cross (+) shape in plan section, the aligned arms of one bar of the cross being adapted to connect the ends of steel rolled section segments to form the arch, and the aligned arms of the other bar of the cross being adapted to support roof-supporting beams.

1,783,959. CONTROL MEMBER FOR LIQUIDS. PHILIP W. DES ROCHES, Detroit, Mich. Filed Sept. 9, 1927. Serial No. 218,397. 6 Claims. (Cl. 137—104.)



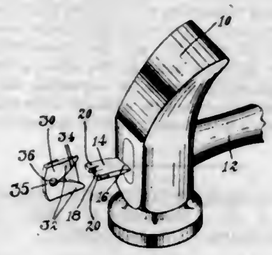
1. In a liquid control device, a container having a port for admitting the liquid to the container, a member pivotally supported in the container and tending to move by gravity in one direction a spiral spring for counterbalancing a portion of the weight of the member and surrounding the pivotal axis of the member, a valve member connected to the member and adapted to be moved thereby to close and open the port.

1,783,960. SURFACING MACHINE. JOHN H. FOX and WILLIAM OWEN, Pittsburgh, Pa., assignors to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Oct. 24, 1929. Serial No. 402,084. 4 Claims. (Cl. 51—55.)



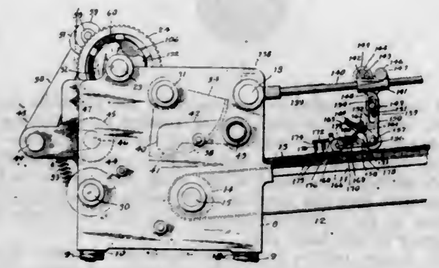
1. In combination in a surfacing machine, a work table mounted for right line movement, a framework alongside the table, a surfacing unit comprising a vertical drive shaft above the table, a vertical sleeve in which the shaft is journalled, means carried by the framework for supporting the sleeve for vertical movement and counterbalancing it, a motor and driving connections therefrom to the shaft mounted upon the upper end of the sleeve, a gear casing swivelled upon the lower end of the sleeve, a plurality of work spindles extending vertically through the casing, a surfacing disc carried by each spindle, and driving means between the lower end of the drive shaft and the spindles, a motor at the side of the table, and connections between the motor and casing to carry the surfacing discs back and forth transversely of the line of movement of the table.

1,783,961. TOOL-SECURING DEVICE. EDWARD L. HURD, Milton, and CHARLES BRADFORD TIBBETTS, Walpole, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 10, 1923. Serial No. 618,409. 2 Claims. (Cl. 306—33.)



2. A device for securing a tool head on a handle comprising a ridden wedge, and a rider wedge having legs of substantial width connected by a narrow neck portion and extending at right angles to the ridden wedge, the wedges co-operating to exert a quartering action on the handle throughout their entire lengths, the ridden wedge being provided with means operable when the rider wedge is driven into the handle to spread apart the legs of the rider wedge thus locking both wedges in the handle.

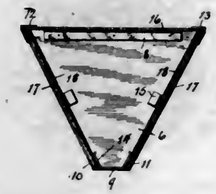
1,783,962. SHEET FEEDER. HARRY EHLIG, Pearl River, N. Y., assignor, by mesne assignments, to Dexter Folder Company, New York, N. Y., a Corporation of New York. Filed May 29, 1923. Serial No. 642,189. 60 Claims. (Cl. 271—28.)



1. In a sheet-feeder, a suction feed-member having suction applied thereto at its lowermost portion and oscillat-

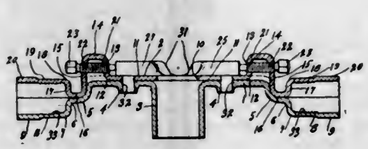
able forwardly in a vertical plane over the superposed sheets for separating and advancing same and means including a part actuated by the leading edge of the advanced sheet for arresting the forward movement of said member.

1,783,963. ILLUMINATED SIGN. BENJAMIN EMIS, New York, N. Y., assignor of one-half to Irving L. Schonbrun, Brooklyn, N. Y. Filed Jan. 12, 1928. Serial No. 246,360. 1 Claim. (Cl. 40—130.)



A sign comprising a substantially triangular casing and having reflective panes in two of its sides, means for rigidly mounting said panes at an angle of substantially 45 degrees to each other, said panes having an opaque reflective coating on their inner surfaces, and having portions of said coating removed so as to form signs whereby light reflected from each reflective surface passes through only the translucent portions of the other pane, and a light transmitting pane between and above said panes for admitting exterior light to said panes.

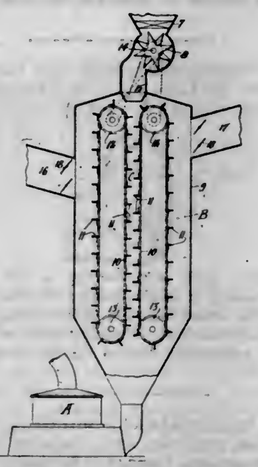
1,783,964. STAMPED DIESTOCK. RALPH E. HYDE, Cleveland, Ohio, assignor to The Oster Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 18, 1928. Serial No. 255,286. 5 Claims. (Cl. 10—123.)



1. A die-stock comprising a plate formed with a plane portion having a central aperture therethrough, and a depressed flange at each end of said portion, a second plate secured to said first plate and formed with an aperture registering with said first-mentioned aperture, means on said second plate forming guideways, stop means on said second plate at the outer end of each of said guideways, and means on said second plate co-operating with each of the flanges on said first plate for effecting rigid assembly of said plates.

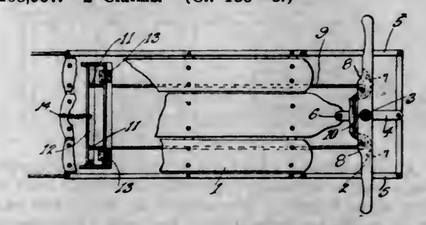
1,783,965. COAL DRIER. GEORGE P. JACKSON, Flushing, N. Y., assignor to International Combustion Engineering Corporation, a Corporation of Delaware. Filed Nov. 5, 1925. Serial No. 66,926. 1 Claim. (Cl. 34—34.)

A coal drier comprising a casing having a coal inlet at the top and an outlet at the bottom, and two endless substantially vertically disposed conveyors spaced apart to provide a channel therebetween for the coal to be dried extending substantially from the inlet to the outlet, said conveyors being so operated that the adjacent flights



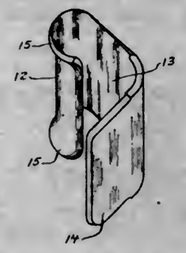
thereof move in a direction from the inlet to the outlet and means for passing a heating medium through the casing and laterally through the descending fuel.

1,783,966. BRAKE FOR SLEDS. ERNEST KALLENBACH, Philadelphia, Pa. Filed Apr. 10, 1928. Serial No. 268,957. 2 Claims. (Cl. 188—8.)



1. The combination with a sled having a steering bar, of a dragging brake member suspended from the top of the sled between the runners at the rear thereof, means to retain the brake member normally inclined rearwardly and downwardly, said steering bar having chambered out parts, pulleys mounted in the chambered out parts, a rope engaging over the pulleys and having a loop including a handle rearwardly of the pulleys, said loop having its opposite portions connected to the brake member, whereby upon grasping the handle the rope may be pulled and the brake member applied.

1,783,967. GUY CLIP. JAMES R. KEARNEY, St. Louis, Mo. Filed Sept. 9, 1927. Serial No. 218,482. 10 Claims. (Cl. 24—115.)



1. A flexible cable clip having a side opening, and adapted to engage a double cable; said clip having a sub-

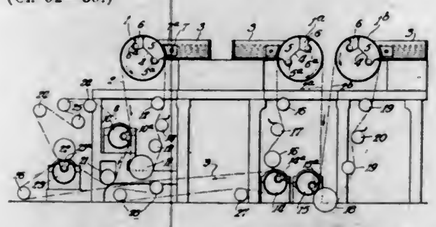
stantially semi-circular portion and a substantially rectilinear portion adapted to be bent into adjacence with the semi-circular portion to close the clip about the doubled cable.

1,783,968. FASTENING MEANS FOR CABLES. JAMES R. KEARNEY, St. Louis, Mo. Filed Feb. 7, 1929. Serial No. 338,249. 11 Claims. (Cl. 24—115.)



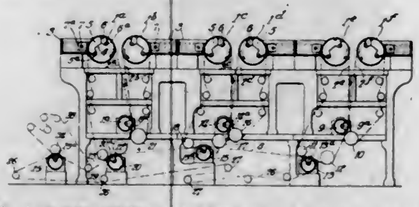
1. A flexible cable clip having a side opening, and adapted to engage a double cable; the clip having a preshaped portion offset from the side opening and normally conforming, substantially, with the shape of one cable, and an internal projection formed on the shaped portion of said clip.

1,783,969. PAPER-MAKING MACHINE. WILLIAM H. MILLSPAUGH, Sandusky, Ohio, assignor to The Paper & Textile Machinery Company, Sandusky, Ohio, a Corporation of Ohio. Original application filed July 20, 1926, Serial No. 123,757. Divided and this application filed Jan. 21, 1929. Serial No. 333,835. 11 Claims. (Cl. 92—39.)



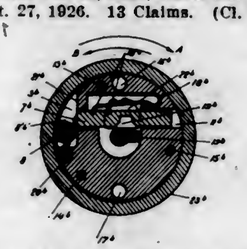
1. A paper-making machine comprising, in combination, an organization including a plurality of suction rolls and endless wires traveling therearound on which wet paper plies or sheets are formed over the rolls by vacuum-induced formation and by which said plies are brought together on one of said wires; a press felt and means for transferring the united plies or sheets thereto; another sheet-making organization including a suction roll and wire traveling therearound on which a wet sheet is formed over said roll by vacuum-induced formation; another press felt and means for transferring the sheet from said last mentioned wire thereto; and a press comprising coacting rolls through which the sheet-carrying runs of said felts pass.

1,783,970. PAPER-MAKING MACHINE. WILLIAM H. MILLSPAUGH, Sandusky, Ohio, assignor to The Paper & Textile Machinery Company, Sandusky, Ohio, a Corporation of Ohio. Original application filed July 20, 1926, Serial No. 123,757. Divided and this application filed Jan. 21, 1929. Serial No. 333,836. 10 Claims. (Cl. 92—39.)



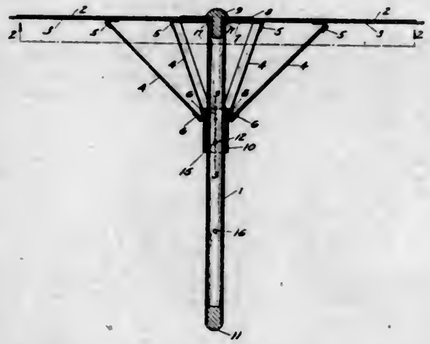
1. A paper-making machine comprising a plurality of pairs of suction rolls and endless wires traveling thereround, each pair of said wires arranged for bringing their respective sheets together on one of the wires of such pair, and an endless carrier and means associated with said carrier and with each of the wires carrying the pairs of sheets by which the said pairs of sheets are transferred one upon another on said carrier.

1,783,971. LOCK. LOUIS EUGENE MIQUET, Neuilly, France. Filed Oct. 25, 1927, Serial No. 228,571, and in France Oct. 27, 1926. 13 Claims. (Cl. 70—40.)



1. A locking device of the type described comprising, in combination, a cylinder, a notch formed in the periphery of said cylinder, one end of said notch bein; shallower than the other, a roller mounted in said notch, a ring surrounding said cylinder covering said notch, means normally moving said roller to the shallow end of said notch and key-controlled means for confining said roller to the deeper end of said notch for the purpose disclosed.

1,783,972. UMBRELLA. CASSIE R. MOSES, Davenport, Iowa. Filed Apr. 11, 1929. Serial No. 354,247. 9 Claims. (Cl. 135—20.)



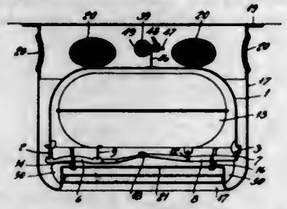
3. In an umbrella, a hollow handle, a cover, a re-enforcing strip centrally attached to the cover having sectors at the center thereof turned downwardly and secured in the upper end of the handle by a closely-fitting plug.

1,783,973. PROJECTION SCREEN. DAVID F. NEWMAN, Freeport, N. Y., assignor to Trans-Lux Daylight Picture Screen Corporation, New York, N. Y., a Corporation of Delaware. Filed July 21, 1926. Serial No. 123,843. 17 Claims. (Cl. 88—24.)



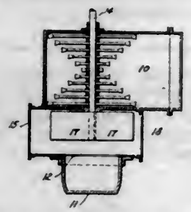
1. A projection screen comprising a base having a coating formed from latex having a diffuser therein.

1,783,974. ALARM APPARATUS FOR THE PREVENTION OF GAS POISONING. ANDERS HILMER OLSSON and PER DANIEL PETERSON, Lidkoping, Sweden. Filed June 20, 1928, Serial No. 286,950, and in Sweden June 11, 1927. 4 Claims. (Cl. 200—52.)



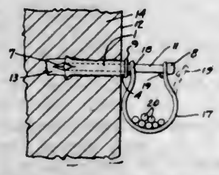
1. In alarm apparatus for the prevention of gas poisoning or gas explosions on the escapement of poisonous or combustible gases into dwelling rooms or other localities, the combination of a float, a gas bell, an electrical switching device, and mechanical means for transmitting the combined action of said float and said gas bell to said switching device, so that upon an alteration of the state of equilibrium under the influence of a gas having a density other than the gaseous medium normally surrounding the float and the gas bell the said switching device will close an electric circuit containing a signal bell.

1,783,975. PULVERIZING PROCESS AND APPARATUS. WALTER B. PEDELTY, Mason City, Iowa. Filed Feb. 27, 1929. Serial No. 343,078. 10 Claims. (Cl. 83—11.)



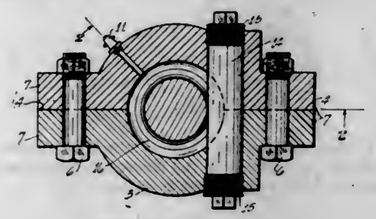
1. The process of pulverizing and feeding fuel consisting in generating a zone of multiple eddies and cross currents having a general path of revolution about a common axis, feeding fragments of solid fuel into said zone along said common axis whereby the fragments are driven against each other to crush the same by impacts and grinding contacts of such intensity as to reduce the fuel fragments to a dust, and delivering such dust, entrained in a portion of the eddying air, out of the space occupied by the eddies.

1,783,976. COMBINED BOLT ANCHOR AND SUPPORT. HENRY W. PLEISTER, Westfield, N. J., assignor to Henry B. Newhall Corporation, Garwood, N. J., a Corporation of New Jersey. Filed Feb. 7, 1928. Serial No. 252,529. 2 Claims. (Cl. 248—36.)



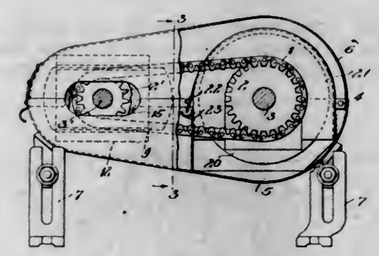
1. A bridle ring fastening comprising the combination of an expansible shield, an expanding member to expand the shield, said member being provided with a stop or collar between its ends to insure that a portion of the expanding member will project from the shield, and a bridle ring provided with hooks adapted to hook on the projecting portion of the expanding member.

1,783,977. AXLE STRUCTURE. EDWIN W. PELSTER, St. Louis, Mo. Filed Jan. 19, 1929. Serial No. 333,539. 3 Claims. (Cl. 295—39.)



1. An axle structure comprising a pair of axle members in longitudinal alignment and arranged to rotate independently of one another about a common axis, a sleeve positioned over the adjacent end portions of said axle members, each of said axle members having an annular groove therein, and removable bearing members carried by said sleeve and arranged so that one of said bearing members extends in each of said grooves whereby said axle members will be prevented from moving longitudinally of said sleeve, said bearing members being free to rotate within said grooves.

1,783,978. LUBRICATING SYSTEM FOR CHAIN DRIVES. DAVID B. PERRY, Ithaca, N. Y., assignor to Morse Chain Company, Ithaca, N. Y., a Corporation of New York. Filed Mar. 16, 1929. Serial No. 347,553. 3 Claims. (Cl. 184—15.)



3. In a lubricating mechanism for chain drives, the combination of a chain case having an upper and lower portion and including an oil reservoir, the upper portion of the case being removable, a collector member mounted in the lower portion of the case so as not to be disturbed by removal of the upper portion shafts extending into said case, oil guards on said shafts where they pass thru said case, sprockets mounted on said shafts, a chain running on said sprockets, a disk member mounted to rotate with one of said sprockets and dip into the oil reservoir below said sprocket, said disk member being located within the collector member so as to discharge oil centrifugally thereto, a projection from which the oil running down the under side of the collector member may drip, and a conductor adapted to receive oil from said projection and discharge it between the sprockets so as to fall upon the lower strand of the chain.

1,783,979. GARMENT BAG. ADOLPH POTDEVIN, Garden City, N. Y., assignor to Potdevin Machine Company, Brooklyn, N. Y., a Corporation of New York. Filed May 11, 1929. Serial No. 362,272. 2 Claims. (Cl. 206—7.)

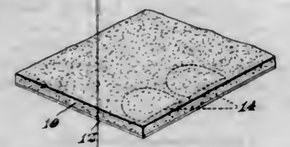
1. A flat tubular body whereof one open end is adapted to be folded in opposite directions from points adjacent

the center of the bag, to provide diagonal shoulder portions having an apex opening therebetween, one wall of said open end having an integral centrally-disposed rela-



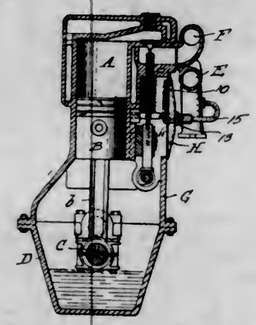
tively narrow reinforcing tongue which is folded upon said wall and is included in the diagonal corner creases of the shoulder folds at the apex opening.

1,783,980. CUSHION TREAD FOR FOOTWEAR. CLIFFORD ROBERTS, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 14, 1925. Serial No. 69,192. 4 Claims. (Cl. 36—35.)



1. A step product consisting of a composite sheet of soft metal and rubber vulcanized together, the metal having in its outer face a series of regularly arranged, heel shaped depressions of a depth at least equal to the thickness of the metal.

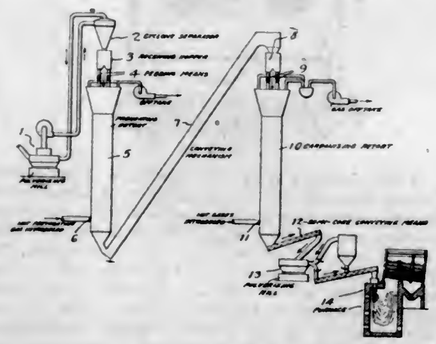
1,783,981. LUBRICATING METHOD AND APPARATUS. RALPH R. ROBERTS, Lockport, N. Y. Filed Mar. 30, 1929. Serial No. 351,261. 10 Claims. (Cl. 123—196.)



1. The combination with an internal combustion engine having an intake manifold and a lubricating chamber, of a part arranged in said chamber and subjected to the splash of lubricant, and a conduit connecting said intake manifold with said part in said chamber for drawing lubricant from said part into said intake manifold.

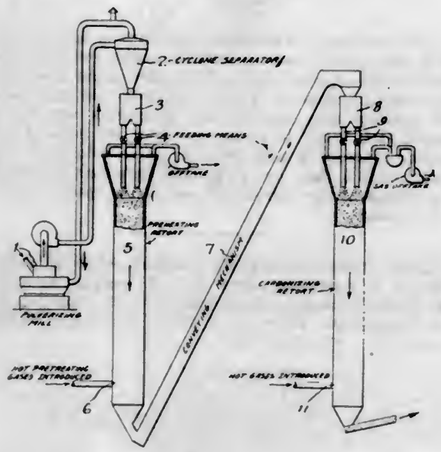
1,783,982. PROCESSING OF COAL AND PRODUCT THEREOF. WALTER RUNGE, East Orange, N. J., and EDWIN A. PACKARD, Yonkers, N. Y., assignors, by mesne assignments, to International Coal Carbonization Company, a Corporation of Delaware. Filed June 12, 1925. Serial No. 36,590. 5 Claims. (Cl. 202—17.)

1. The method of preparing coal for use in a pulverized fuel burning furnace comprising pulverizing coal, subjecting the pulverized coal to a preliminary heat treatment in an oxidizing atmosphere under conditions to drive off only a small percentage of the hydrocarbon volatile content but under conditions such that the treated coal particles lose the sharp edges and are by the preliminary heat treatment transformed from solids having sharp edges to solids having relatively smooth and rounded outer surfaces and by said preliminary heat treatment are also slightly increased in size, thereafter subjecting the treated pulverized coal to carbonization by suspending it in a



gaseous medium substantially chemically inert with respect to the coal and in a carbonizing zone wherein the heat is sufficient to effect a low temperature carbonization and thereby driving off a substantial portion of the hydrocarbon volatile content of the coal and under conditions to produce semi-coke comprising in the main particles in the form of hollow spheroids, withdrawing the semi-coke and then crushing it.

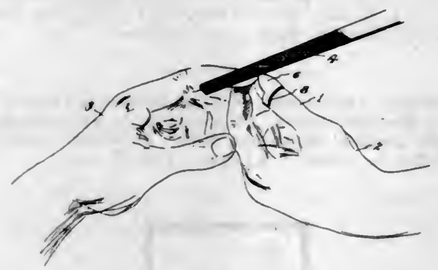
1,783,983. POWDERED COKE PRODUCT. WALTER RUNGE, East Orange, N. J., assignor, by mesne assignments, to International Coal Carbonization Company, a Corporation of Delaware. Filed June 12, 1925. Serial No. 36,598. 6 Claims. (Cl. 202—35.)



1. A powdered coke product obtained by pulverizing coal to convert it into finely divided form, by subjecting the pulverized coal to the preheating action of hot gases having temperatures of approximately 650 degrees F. whereby the surface of the coal particles are rounded off, the volatile content slightly reduced and the density slightly lessened, and by subjecting coal thus preheated and after it has been separated from its pretreating gases to low temperature carbonization in suspension in a gaseous carbonizing medium to produce a semi-coke having a

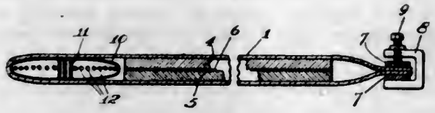
hydrocarbon volatile content of approximately 8% to 12% and in which most of the particles have been converted into substantially hollow spheroids with shell-like defining structures, the size of which spheroids is such that practically all will pass through a 10 mesh screen.

1,783,984. MANICURIST'S THUMB GUARD. MINNIE V. SHANE, San Antonio, Tex., assignor of one-half to Charles H. Winterborne, San Antonio, Tex. Filed July 17, 1929. Serial No. 379,007. 2 Claims. (Cl. 132—73.)



2. A manicurist's thumb guard comprising a plate curved transversely and having its outer end portion bent downwardly to form an abutment, and arms extending from opposite sides of said plate and bent to form an expansible band adapted to fit about a thumb and retain the plate thereon in shielding relation to the nail with the abutment engaging the end of the thumb.

1,783,985. APPARATUS FOR MAKING COMPOSITE GLASS. JAMES H. SHERTS, Brackenridge, Pa., assignor to Duplate Corporation, a Corporation of Delaware. Filed Jan. 22, 1929. Serial No. 334,205. 4 Claims. (Cl. 49—14.)



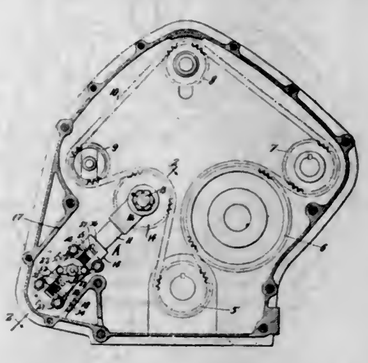
1. In combination in apparatus for making composite glass, a rubber bag for carrying the sheets to be joined, means for sealing the bag, and an air chamber lying entirely inside the bag, said chamber having an opening into the bag to permit a flow of air to its interior, and being relatively rigid to prevent collapse when the bag is exposed to pressure in a pressure tank.

1,783,986. PROCESS OF TREATING LEAD-BEARING MATERIAL. ALEXANDER STEWART, Roselle, N. J., assignor to C. L. Constant Company, Hoboken, N. J., a Corporation of New Jersey. Filed Mar. 22, 1927. Serial No. 177,463. 12 Claims. (Cl. 23—127.)

12. In the refining of antimonic lead sulfate in a weak sulfuric acid solution, the method of preventing hydrolysis of the antimony by maintaining the solution at a sufficiently high concentration of SO_4 ions by the addition of a soluble sulfate of an alkali metal thereto.

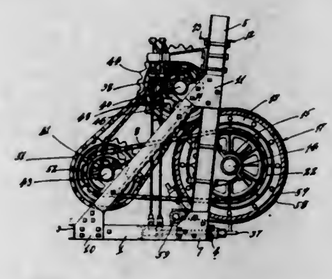
1,783,987. CHAIN-ADJUSTING DEVICE. FRED C. THOMPSON, Detroit, Mich., assignor to Morse Chain Company, Ithaca, N. Y., a Corporation of New York. Filed Feb. 19, 1929. Serial No. 341,123. 4 Claims. (Cl. 64—5.)

1. A tension adjuster for endless chains including yieldable means normally operating on the chain in a direction to take up slack therein, means for preventing movement of the adjuster to positions of loose adjustment, a lost motion connection between the first means and the second means adapted to set the second means when the



first means moves in a direction to take up slack and to permit a limited amount of movement of the first means in a direction which would tend to make slack before the second means becomes effective to prevent movement in such direction.

1,783,988. TWO-POST, TWO-SPEED, THREE-SHAFT PORTABLE DRAWWORKS. EDWARD TIMBS, Los Angeles, and LEWIS E. ZERBE, Moneta, Calif., assignors to The National Supply Company of Delaware, New York, N. Y., a Corporation of Delaware. Filed Oct. 24, 1927. Serial No. 228,158. 4 Claims. (Cl. 254—187.)

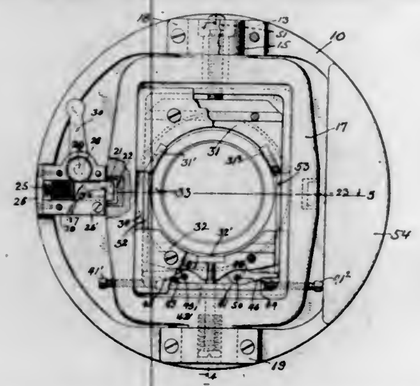


1. In a rotary drawworks, the combination of a frame structure including a pair of spaced base frame members, substantially upright posts secured to the base frame members, a pair of inclined brace frame members secured at their ends to the posts and the base frame member, a drum shaft, means for rotatably supporting the drum shaft on the posts, a line shaft, means for rotatably supporting the line shaft on the brace frame members on a vertical line removed laterally from a line joining the posts, a jack shaft, means for rotatably supporting the jack shaft on the brace frame members below the line shaft, means for driving the line shaft, means for driving the jack shaft from the line shaft, and means for driving the drum shaft from the jack shaft.

1,783,989. REVERSIBLE CHUCK FOR LATHES. CHARLES P. WETMORE, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Dec. 29, 1924. Serial No. 758,610. 11 Claims. (Cl. 279—5.)

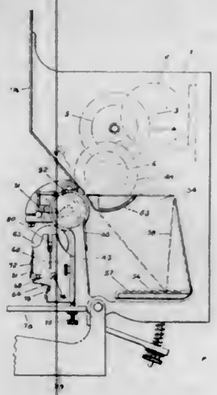
1. In a reversible chuck, a head for connection to the spindle of a lathe, a reversible chucking member provided

with journals which are mounted radially with respect to the said head, means for locking the chucking member in either operative position, chucking jaws one actuated from



the other carried by the said member, and means in part located in a journal of the said member for actuating the jaws simultaneously.

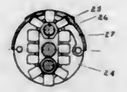
1,783,990. CHECK-INDORSING MACHINE. LAWRENCE J. ZAHN, Long Island City, N. Y., assignor to International Postal Supply Company, Brooklyn, N. Y. Filed July 13, 1928. Serial No. 292,386. 10 Claims. (Cl. 101—236.)



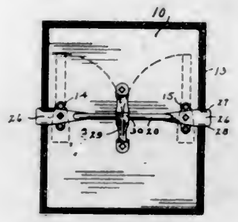
1. For a check indorsing machine including the following instrumentalities; a drive roller and means for operating the same, a clutch roller having a part normally in engagement with the drive roller, a die structure, a clutch mechanism between the clutch roller and the die structure, a trip mechanism for controlling the movement of the die structure, means for guiding checks between the drive roller and the die and check stacking means below the die structure comprising; a compartment having associated with its vertical wall farthest from the die, a serrated portion for catching the edge of the check, thereby causing the check edge last to leave the die, to drop toward the bottom of the compartment.

1,783,991. PRINTING-DIE STRUCTURE. LAWRENCE J. ZAHN, Long Island City, N. Y., assignor to International Postal Supply Company, Brooklyn, N. Y. Filed July 13, 1928. Serial No. 292,387. 7 Claims. (Cl. 101—91.)

1. A die structure particularly adapted for use in a check endorsing machine including; a die having a plurality of a series of adjustable indicia blocks and a die plate having an aperture therein to fit around and expose the selected indicia, blocks of each series, means for locking each series of indicia in its selected position comprising pawls to drop between two blocks of a series, said pawls being held in place by the die plate.

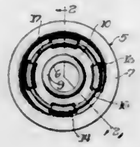


1,783,992. SILO DOOR. EMIL F. ZUBER and FREDERICK A. DOWLING, Peoria, Ill., assignors to The Michigan Silo Company, Kalamazoo, Mich. Filed Mar. 11, 1929. Serial No. 345,917. 8 Claims. (Cl. 20—1.4.)



1. In a silo, a door, a pair of levers pivoted between their arms spaced apart one from the other on the door and rockably secured thereto, and means separate from the levers permitting said levers to be rocked both normally and parallel to the door.

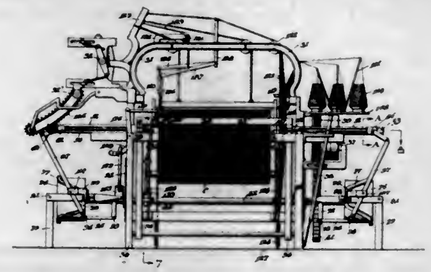
1,783,993. PULLEY. GEDOR W. ALDEEN, Rockford, Ill. Filed Apr. 19, 1928. Serial No. 271,390. 13 Claims. (Cl. 64—17.)



1. A sheet metal pulley comprising a pair of duplicate sections each formed to provide a central web portion and an outer flange projecting laterally from the outer side of said web, said web having a plurality of annularly arranged spaced apertures and a plurality of annularly spaced loops intermediate said apertures and projecting laterally from said web in the opposite direction from said flange, said loops in each section being arranged to project through the apertures in the opposite section to provide a continuous annular passage centered laterally of said web, and an annular locking member extending through said passage to secure said sections together.

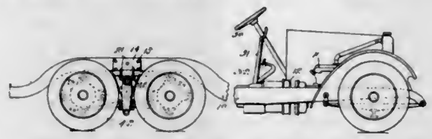
1,783,994. NEEDLE LOOM. FRANCIS E. ASHTON, Chester, Pa., assignor to Aberfoyle Manufacturing Company, Chester, Pa., a Corporation of Pennsylvania. Filed Dec. 24, 1927. Serial No. 242,342. 34 Claims. (Cl. 139—124.)

1. In a loom, means for providing a warp shed, a forked carrier to engage and carry a looped weft thread into said shed, a needle to receive and carry said weft thread through said shed, a knife to automatically cut one strand



of said looped weft thread to release same from said needle, and means to stop said loom when said weft thread is omitted.

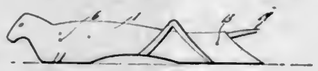
1,783,995. MOTOR VEHICLE. CHARLES BERG, New York, N. Y. Filed Dec. 19, 1925. Serial No. 76,365. 5 Claims. (Cl. 180—22.)



1. In a motor vehicle, the combination of a pair of drive wheels mounted in tandem and having electric power units mounted on each of said wheels and carried thereby, a vehicle frame having brackets extending therefrom, an extension on each of said brackets and pivot plates on said extension, a pair of spring members mounted on said plates to independently oscillate in a common plane, the opposite ends of each pair of spring members engaging a power unit to flexibly suspend the same to oscillate about a common point on said bracket, said power units mounted at the end of springs and supported at one side independently of electric power units at the other side of the vehicle frame.

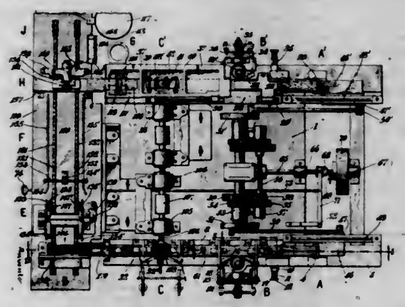
4. A spring suspension including a supporting frame, a spring member pivoted thereon for movement in a vertical plane, dual axles pivotally connected at the free ends of said spring and free for transverse movement toward and from each other incident to expansion of said spring, and a supplemental spring pivoted in the vertical plane of the pivot of the first mentioned spring and having its outer ends pivotally connected to said axles at a point below the pivotal connection of the first mentioned spring.

1,783,996. TOY GRASSHOPPER. ROBERT A. BLAKE, Brooklyn, N. Y. Filed Mar. 19, 1930. Serial No. 436,961. 1 Claim. (Cl. 46—40.)



In a device of the kind described, a hollow shell formed to simulate a grasshopper, the said shell being open at its under side and at the tail end, and having laterally aligned holes through its forward and gear portions, a cross pin having its ends inserted through said forward holes and thereby supported in position, a jump arm disposed within the shell and connected at its forward end to the said cross pin, the rear end of the jump arm being slotted longitudinally, a spring coiled around the cross pin with one end braced up against the back of the shell and the other end bent around the end of the jump arm and so adapted to force the free end of the jump arm outwardly of the shell, a cross pin having its ends journaled in the said rearward laterally aligned holes, a latch joined to the said cross pin and having an end turned to extend through the said slot at the rear end of the jump arm and adapted to engage the rear margin of the slot, to hold the jump arm within the shell under the tension of the said spring, the other end of the said latch being extended outwardly through the open tail end of the shell to form a trigger, and a spring coiled around the said rear cross pin and having an end braced up against the back of the shell, the other end of the spring being coiled around the latch, whereby the said latch is normally thrown rearwardly to engage the margin of the slot of the jump arm.

1,783,997. APPARATUS FOR THE MANUFACTURE OF PENCILS. WILLIAM H. BURDEN, Weehawken, and ROBERT E. FRIEDLEIN, Mountain View, N. J., assignors to American Lead Pencil Company, New York, N. Y., a Corporation of New York. Filed Nov. 13, 1928. Serial No. 319,088. 16 Claims. (Cl. 144—28.)



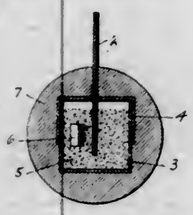
1. In a machine of the character described the combination of, means for feeding a first pencil block having a groove therein, means operable in synchronism with said block feed and in a direction of movement transverse said groove for delivering a lead into said groove while said block is moving, means for moving a second block having a groove therein and for applying adhesive on the grooved face thereof, and means for relatively moving said blocks into adhesive registering engagement, to thereby form a pencil blank.

1,783,998. PHOTOGRAPHIC REPRODUCTION OBJECTIVE WITH TWO DIAPHRAGMS AND ITS APPLICATION AS IN PRINTING POSITIVES FOR BLACK AND WHITE CINEMATOGRAPHY, COLOR CINEMATOGRAPHY, OR CINEMATOGRAPHY IN RELIEF. HENRI CHRÉTIEN, St.-Cloud, France, assignor to Societe Anonyme Francaise dite: Societe Technique d'Optique et de Photographie (S. T. O. P.), St.-Ouen, France. Filed Jan. 9, 1928, Serial No. 245,557, and in France Mar. 9, 1927. 10 Claims. (Cl. 88—24.)



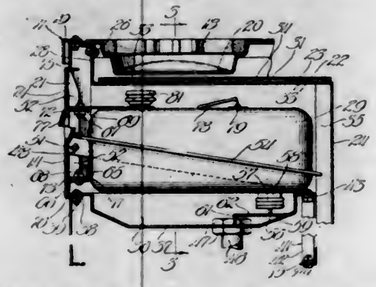
10. An apparatus for photographically reproducing cinematographic films including two separate and distinct objectives located side by side and having diaphragms, and optically intermediate convergent optical means adapted to form the image of the diaphragms and a pair of reels on the same identical drive shaft and disposed in front of the objectives, said rule carrying the film to be reproduced and the sensitized film respectively.

1,783,999. SALUTE AND METHOD OF MAKING SAME. ALBERTO CIMOROSI, Elkton, Md. Filed Jan. 18, 1929. Serial No. 333,297. 2 Claims. (Cl. 102—22.)



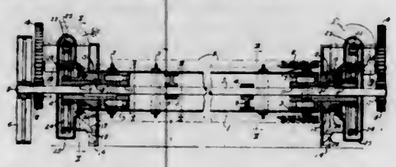
2. A salute consisting of a closed container carrying a charge of explosive material and a charge of coloring matter within the explosive charge, and provided with a fuse.

1,784,000. OIL HEATING STOVE. WILLIAM L. COOPER, Kankakee, Ill., assignor to Florence Stove Company, Boston, Mass., a Corporation. Filed Nov. 18, 1929. Serial No. 407,922. 15 Claims. (Cl. 126—44.)



1. A fluid fuel stove comprising a burner portion having a plurality of burners therein, a fluid container pocket provided in said burner portion and insulated therefrom, tracks arranged at opposite sides of said pocket, and a fuel tank slidably supported by said tracks in said pocket.

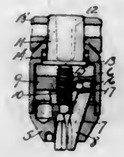
1,784,001. MECHANICAL STOKER. WILLIAM M. DUNCAN, Alton, Ill. Filed Sept. 17, 1926. Serial No. 136,053. 7 Claims. (Cl. 110—40.)



1. In a mechanical stoker, a chain grate, and a driving device comprising a rotatable tube supporting a portion of said grate, main bearings supporting said tube, a rotatable shaft extending through said tube, said tube being provided with bearings in which said shaft is supported, and means whereby power is simultaneously transmitted from said shaft to each end of said tube, said means including gearing near each end of the tube.

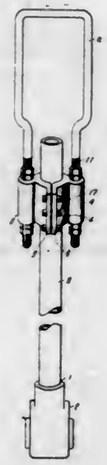
1,784,002. CHUCK. ALBERT E. ENGLUND, West Hartford, Conn., assignor to The Jacobs Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed Sept. 8, 1926. Serial No. 134,175. 3 Claims. (Cl. 279—60.)

1. A chuck comprising a body having openings therein, a support, a sleeve for housing jaw actuating mechanism detachably connected to and rotatable with the body but independently of said support, chuck jaws mounted in said openings and operatively connected with said sleeve to be rotated therewith and moved axially during such



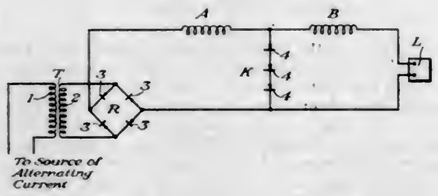
rotation, and a holder immovably secured to said support to rotate with the chuck when the latter is in operation and acting as a means for retaining the support against rotation when said sleeve is rotated.

1,784,003. WALKING-BEAM STIRRUP. HARRY H. FRANKS, Tulsa, Okla., assignor of three-fourths to Tidal Oil Company, Tulsa, Okla., a Corporation of Oklahoma. Filed Dec. 9, 1929. Serial No. 412,796. 5 Claims. (Cl. 74—47.)



1. A pitman connector including in combination with a pitman rod, a bracket on the rod, and a stirrup adjustably mounted on the bracket.

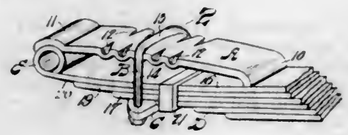
1,784,004. ELECTRICAL FILTERING APPARATUS. PAUL H. GEIGER, Wilkinsburg, and LARS O. GRONDAHL, Pittsburgh, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Oct. 7, 1925. Serial No. 61,013. 3 Claims. (Cl. 171—97.)



1. A filter for use with a source of pulsating current and a load, comprising a plurality of elements connected

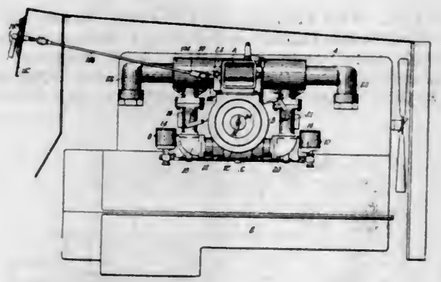
in series across the source in parallel with the load, each such element exhibiting a considerable variation in resistance in response to a comparatively small change in the electromotive force applied thereto over a limited range of such electromotive force, and the number of such elements being such that the electromotive force across each such element is within said limited range.

1,784,005. SHOCK ABSORBER. PETER GRABLER, Rocky River, Ohio, assignor to Grabler Stabilizer Co., Cleveland, Ohio. Filed July 23, 1927. Serial No. 207,913. 26 Claims. (Cl. 267—48.)



1. A shock absorber of the character described comprising a body member having an upwardly offset portion at one end, the under surface of which is concaved to fit over and rest upon the top portion of the eye of a leaf spring so that the strains are directly applied to said eye, the other end of said body member being provided with a toe positioned to engage the top surface of said spring so that when said body member is in position on said spring it is maintained in spaced relation with respect to said spring, and means for retaining said body member in position.

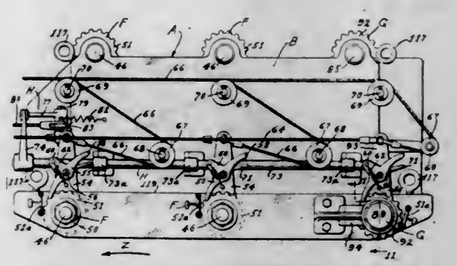
1,784,006. AIR CONTROL FOR INTERNAL-COMBUSTION ENGINES. ELBERT J. HALL, Berkeley, Calif., assignor to American Car and Foundry Motors Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 15, 1929. Serial No. 340,090. 15 Claims. (Cl. 123—122.)



1. In a motor vehicle, an internal combustion engine, a hood therefor having an opening, a scoop secured to the hood at the opening, and means for admitting air to be mixed with the engine motive fuel comprising a valve casing, a conduit for directing heated air to the casing, a second conduit extending to the scoop for directing air at atmospheric temperature to the casing, a valve in the casing for controlling the passage of air through the conduits to control the temperature of the air admitted thereto, an air delivery conduit for directing air to be mixed with the motive fuel, and filtering means interposed between the valve casing and air delivery conduit.

1,784,007. CAPPING-DEVICE VALVE FOR WELLS. JOHN W. HALL, Santa Ana, Calif. Filed Jan. 2, 1929. Serial No. 329,899. 20 Claims. (Cl. 166—15.)

1. A valve of the character disclosed including a body comprising separable body portions, said body being provided with an opening, a closure member for such opening, operating means for said closure member, and assembling

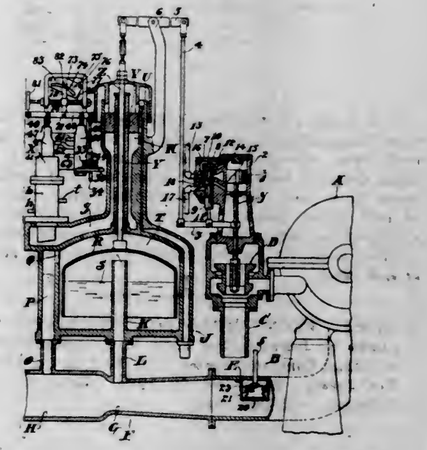


devices connecting the body portions, in combination with a guiding member associated with one of the body portions and adapted to coact with another of the body portions.

1,784,008. ADHESIVE COMPOSITION. WILLY O. HERRMANN and WOLFRAM HAEHNEL, Munich, Germany, assignors to Consortium fur Elektrochemische Industrie, Munich, Germany. Filed May 9, 1927, Serial No. 190,130, and in Germany May 11, 1926. 4 Claims. (Cl. 87—17.)

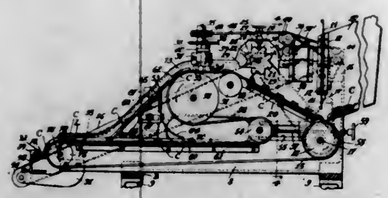
1. An adhesive composition containing alcohol-soluble polymerized vinyl acetate, and a softening agent therefor.

1,784,009. CONSTANT-VOLUME REGULATOR. LESLIE R. HUFF, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Jan. 30, 1930. Serial No. 424,708. 10 Claims. (Cl. 230—5.)



1. A constant volume regulator for motor driven turbo blowers, comprising an air intake conduit, means for controlling the delivery of power to the motor and being actuated by the air flowing through the conduit and by pressure fluid acting counter to the force of the air, pressure control means for controlling the supply of pressure fluid to the first said means, means responsive to the temperature of the air flowing through the conduit, and means actuated by the temperature responsive means for controlling the said pressure control means to vary the speed of the motor in accordance with the variations in the temperature of the air flowing through the conduit, thus assuring a constant discharge volume of the blower.

1,784,010. APPARATUS FOR FEEDING CLOSURE CAPS. JOHN A. JOHNSON, Woodhaven, N. Y. Filed Feb. 9, 1929. Serial No. 338,686. 13 Claims. (Cl. 198—33.)



1. In closure cap feeding apparatus, an endless conveyor to transfer caps from a source of supply, cap separating and guiding means interposed in the line of travel of the conveyor comprising a pair of spaced wheels superposed to the conveyor and rotatable simultaneously in the plane of and in a direction toward each other and opposite to the direction of travel of the conveyor, and a pair of chutes extending from said means, each chute to deliver differently positioned caps to a further advanced portion of the conveyor in a predetermined position.

1,784,011. DEVICE FOR CARRYING HEAVY BODIES ON AND RELEASING THEM FROM AIRCRAFT. ALBERT EDWARD JONES, Westminster, London, England, assignor to Vickers-Armstrongs Limited, Westminster, England, a British Company. Filed July 22, 1930, Serial No. 469,874, and in Great Britain Dec. 4, 1928. 6 Claims. (Cl. 244—1.)



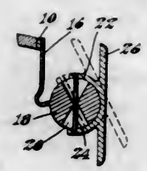
1. A device for carrying heavy bodies on, and releasing them from, aircraft, comprising in combination two pivoted claws, upward extensions of said claws, a rocking block disposed between said extensions and arranged to move in a plane transverse to the plane of movement of said claws, means for moving said block to release the claws and means whereby said block retains said claws in their engaging position during a substantial movement of said block.

1,784,012. FRONT HEAD FOR PNEUMATIC TOOLS. JAMES H. JOWETT, New York, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Dec. 12, 1929. Serial No. 413,517. 7 Claims. (Cl. 262—13.)



1. A pneumatic tool comprising a casing, a working implement guided thereby, a hammer piston to actuate the working implement, and converging surfaces on the casing forming a cleaver portion adapted to enter the work for breaking portions thereof free from the mass.

1,784,013. GUARD FOR SPECTACLES AND EYEGLASSES. JOHN B. KERN, Montclair, N. J. Filed Aug. 14, 1929. Serial No. 385,805. 5 Claims. (Cl. 88—55.)

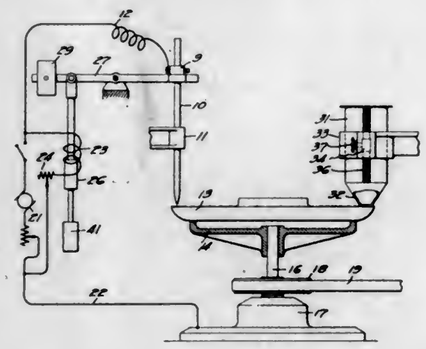


1. In a spectacle or eyeglass, a frame and a guard having a ball and socket connection therewith including a ball attached to the frame having opposed radial slots, and a socket secured to the guard and having a pin extending internally and diametrically through the ball and movable both rotatably and angularly in said slots.

1,784,014. PROCESS OF PREPARING ARTIFICIAL TEXTILE PRODUCTS WITH REDUCED LUSTER. THEODOOR KOCH, Arnhem, Netherlands, assignor to Algemeene Kunstzijde Unie Naamlooze Vennootschap, Arnhem, Netherlands. Filed Oct. 3, 1927, Serial No. 223,833, and in the Netherlands Apr. 7, 1927. 4 Claims. (Cl. 106—40.)

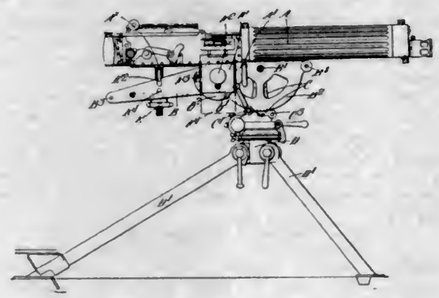
1. In a process of preparing a solution of viscose containing chlorobenzene for spinning into artificial silk threads with a reduced luster and of a size below 6 denier, the step of emulsifying the solution to such an extent as to form particles of chlorobenzene of a diameter which is a function of the denier number of the threads which are to be spun, which diameter varies according to the formula :—$D^2=c(a^2+a)$, in which D is the denier number, a the largest allowable diameter of the particles in microns, and c a constant, which for normal viscose is about two-thirds.

1,784,015. ARC-WELDING APPARATUS. FULTON LANE, Palos Verdes Estates, and HARRY J. MORGAN, Walnut Park, Calif., assignors to P. L. & M. Company, Los Angeles, Calif., a Corporation of California. Filed Apr. 3, 1929. Serial No. 352,125. 2 Claims. (Cl. 219—8.)



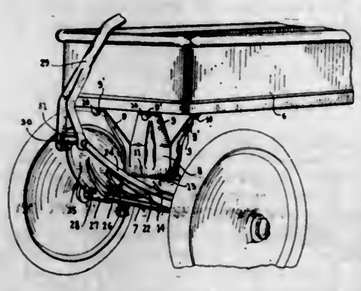
1. In a welding apparatus for fusing material to the face of a body, an arc electrode from which an arc can be struck to the face of the body, means for effecting automatic adjustment of the electrode to preserve a substantially constant arc length, means for causing the arc to progress along a predetermined path on the body, and means for applying a layer of granular fusible material to the face of the body along said path in advance of the arc.

1,784,016. MOUNTING FOR AUTOMATIC GUNS. CARL ALFRED LARSSON, Westminster, London, England, assignor to Vickers-Armstrongs Limited, London, England, a British Company. Filed Feb. 15, 1929, Serial No. 340,046, and in Great Britain Mar. 22, 1928. 8 Claims. (Cl. 89—40.)



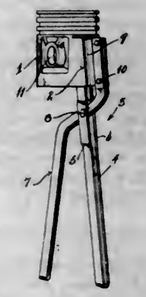
1. An automatic gun mounting comprising in combination a cradle or elevating arm on which the gun is mounted, said cradle or elevating arm having two side members rigidly connected together at a suitable distance apart and being provided at its rear with means to receive a trunnion pin passing through the usual trunnion lug on the mechanism casing of the gun so that by adjusting the said cradle or elevating arm upon the crosshead of the mounting until it approaches the vertical and retaining it in this position the mounting is converted from the ground firing condition into the anti-aircraft firing condition, a pivoted elevating gear disposed between said side members this elevating gear when the mounting is to be converted from the ground firing condition into the anti-aircraft firing condition being disconnected from the mechanism casing of the gun and swung about its pivots into a housed position between said side members, and means for holding said elevating gear in the housed position.

1,784,017. STEERING MECHANISM FOR COASTER WAGONS. FRED. LEICHT, Sheboygan, Wis., assignor to The Globe Company, Sheboygan, Wis., a Corporation of Wisconsin. Filed May 3, 1929. Serial No. 360,219. 3 Claims. (Cl. 280—114.)



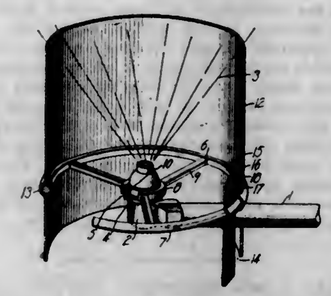
1. In a steering mechanism, an upper cup shaped bolster member having its lower surface formed as a turn table surface and having integral upwardly projecting box engaging arms, a lower bolster member having an outwardly projecting integral hound portion, laterally depending, integral, axle embracing and clamping portions and an upper turn table surface engaging the turn table surface of the upper bolster member, a bridge member non-rotatably positioned within said cup shaped bolster member, and a pivot bolt extending through the bridge member and through the adjacent turn table surfaces of both bolster members.

1,784,018. PISTON EXPANDER. WILLIAM R. MCNABB, WILLIAM D. FARLEY, and FERRELD J. STARCHER, Long Beach, Calif. Filed Mar. 12, 1927. Serial No. 174,762. 1 Claim. (Cl. 81—5.1.)



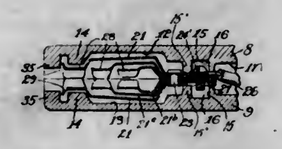
A piston expander adapted to expand pistons having a slot formed therein, said expander comprising a pair of spaced arms formed from a single strip of metal, a second arm formed of a single strip of metal bent upon itself, said last named arm being pivoted between the first named spaced arms, a wedge plate adapted to be secured to said last named arm, and bolts extending through said last named arm and wedge plate whereby the plate is secured in position.

1,784,019. SPRAY-COOLING DEVICE. LEON T. MART, Kansas City, Mo. Filed Aug. 30, 1928. Serial No. 302,969. 4 Claims. (Cl. 261—115.)



1. In combination with a spray nozzle and an air delivery tube having an internal peripheral groove, a bracket for supporting the tube from the nozzle comprising a collar for receiving the nozzle, a hoop for engaging in said groove of the tube and radial arms connecting the collar with the hoop.

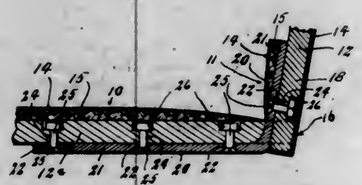
1,784,020. ELECTRICAL CONNECTER. BENJAMIN P. MCKINLEY, Bridgeport, Conn., assignor to The Bryant Electric Company, a Corporation of Connecticut. Filed Feb. 7, 1927. Serial No. 166,385. 9 Claims. (Cl. 173—332.)



1. In a contact terminal for electric connecters, a plurality of pairs of plates of different lengths and one pair

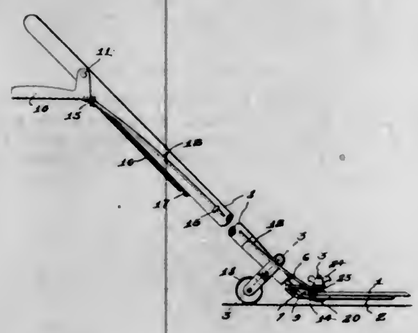
of plates nested within the other, both ends of each of the plates of each pair of plates being offset laterally in a direction toward each other and the extremities extended in the plane of the plates, the extended extremities of the offset portions at one end being flat and arranged to lie in contiguous relation and secured together in electrical connection one with the other at said extremities, the remaining portion of the plates being spaced laterally from each other and adapted to have yielding spreading movement without said portions of the plates making contact one with the other, the extended extremities of the free offset ends being arranged in longitudinal spaced alinement and constituting the contact making portion of the plates adapted to engage and make electrical connection with successive points of a pin terminal inserted between the pairs of plates.

1,784,021. STOOL SEAT. LAWRENCE M. MICHELSON and JOHN L. HAYNES, St. Louis, Mo. Filed Apr. 17, 1929. Serial No. 355,838. 2 Claims. (Cl. 155—178.)



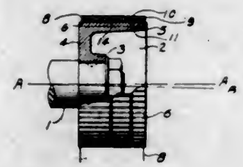
1. In a counter stool construction of the class described, the combination of a seat section having its rear corners notched, a back section having its lower end curved upwardly, thereby forming at each vertical edge a depending leg portion which fits into the respective corner notch, angle irons for securing said legs in position, the horizontal portion of each angle iron being disposed against the underside of the seat section and the upper portion being arranged against the front side of said back section, each of said angle irons being provided with countersunk apertures, and fastening means seated in said apertures and engaging the respective sections for securing said angle iron in position.

1,784,022. LAWN-TRIMMING DEVICE. GEORGE F. MINIKHIEM, Syracuse, N. Y. Filed Dec. 19, 1928. Serial No. 327,108. 1 Claim. (Cl. 56—241.)



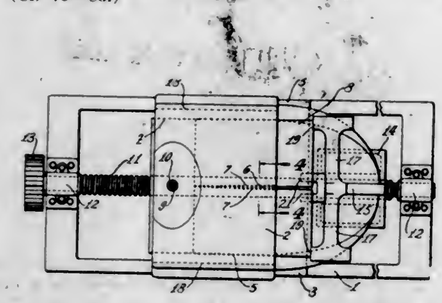
A device of the character described comprising a stationary blade having a movable blade pivotally connected to the lower side thereof, a handle portion on said stationary blade extending at an inclination from the rear end thereof and provided with a pinch handle at its upper end, an arm extending at an angle from the rear end of the movable blade, a rod connecting the pinch handle and said arm for moving said blade to its closed position, a coiled spring connected to the upper end of said rod and to the lower end of said handle for moving said blade to its open position, a roller having a supporting member encircling and adjustable along the lower end of said handle, means for pivotally connecting said blades together comprising a bolt having a head arranged to coact with the lower side of the movable blade, a circular portion extending into a circular passage in said movable blade, a squared portion on said bolt coacting with a squared passage in the stationary blade, a wing nut threading on the upper end of said bolt and a spring interposed between the upper side of said stationary blade and said wing nut.

1,784,023. DRIVE CHAIN. FRANK L. MORSE, Ithaca, N. Y. Filed May 8, 1930. Serial No. 450,655. 5 Claims. (Cl. 74—31.)



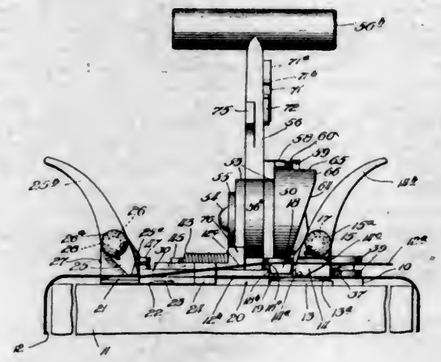
1. In power transmission chain drives comprising toothed sprocket wheels and multiplate chains retained thereon laterally by guide links, the method of controlling the installation of said chains which consists in locating the guide links non-symmetrically with respect to the center line of the chain.

1,784,024. MACHINE FOR WELDING. JAMES S. NEWELL, St. Louis, Mo., assignor to National Lead Company, St. Louis, Mo., a Corporation of New Jersey. Filed June 24, 1922. Serial No. 570,680. 6 Claims. (Cl. 78—83.)



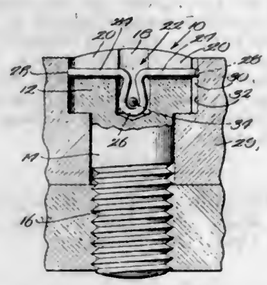
6. A machine for butt-welding sheets, comprising, a welding tool, a sheet support, means for passing the sheet along said support in order to transfer the point of operation of the tool along the sheet edges, and a heat-conducting finger making thermal contact with the end of the sheet.

1,784,025. STRAP-STRETCHING DEVICE. RALPH H. NORTON, Chicago, Ill., assignor to Acme Steel Company, Chicago, Ill., a Corporation of Illinois. Filed May 10, 1928. Serial No. 276,519. 21 Claims. (Cl. 140—93.)



1. The combination in a strap stretching device of a pair of gripping devices adapted to engage opposite end portions of a strap, actuating means for effecting relative movement of said gripping devices, and a cam adapted to effect a plurality of similar operations of said actuating means upon each rotation thereof.

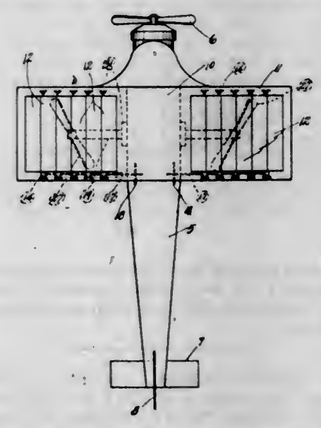
1,784,026. SELF-LOCKING SCREW. CARL G. OLSON, Chicago, Ill., assignor to Shakeproof Lock Washer Company, Chicago, Ill., a Corporation of Delaware. Filed May 17, 1929. Serial No. 363,730. 3 Claims. (Cl. 151—32.)



1. In a screw assembly of the class described, a screw section having a transverse recess and a central recess extending longitudinally of the screw and enclosed thereby, a resilient locking element including a central U-shaped section which extends within said enclosed central recess, and a locking finger extending laterally from said U-shaped section and positioned in said transverse recess, the outer extremity of said locking finger terminating adjacent the screw periphery and adapted to yieldingly bear against the surface of the work with which the screw may be associated.

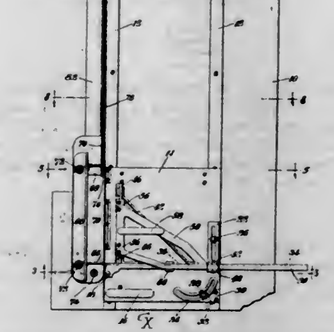
1,784,027. AIRCRAFT CONSTRUCTION. WARREN M. PIGGOTT, Bay City, Mich., assignor to Hattie A. Piggott, Bay City, Mich. Filed Nov. 9, 1929. Serial No. 405,928. 2 Claims. (Cl. 244—15.)

1. An aircraft provided with a wing structure including a frame, a solid center section, the end sections comprising a plurality of shutter members revolubly and adjustably mounted therein, the edges of each panel being angled to nest on and fit the angled edge of the adjacent panel, so that a smooth wing surface is presented when the shutters are in closed position, propellers below



said shutters and shiftable to either a vertical or horizontal position and slidable stops on the center section for holding said shutter members in horizontal position.

1,784,028. WEDGE-CUTTING MACHINE. EUGENE R. POLLARD, Miami, Ariz. Filed Sept. 13, 1929. Serial No. 392,461. 3 Claims. (Cl. 143—52.)

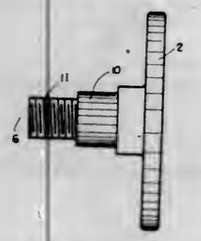


1. A machine for cutting a plurality of wedges in a substantially prismatic block, comprising a rotary saw, a member pivotally mounted on one side thereof and carrying an adjustable gauge adapted to be set to determine the thickness of the butt ends of the wedges, a carriage on the opposite side of and movable toward and from the saw, a swingable arm supported on the carriage, work supporting means slidable along said arm in a direction transverse to the line of movement of the carriage, and adjustable stops on the carriage adapted to limit the swinging movement of said arm.

1,784,029. ADJUSTABLE SUPPORT FOR RAILWAY-CAR SIDE DOORS. VINTON E. SISSON, Chicago, Ill., assignor to Railway Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed Jan. 30, 1930. Serial No. 424,517. 1 Claim. (Cl. 16—105.)

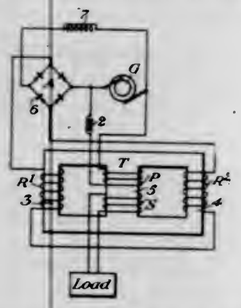
An adjustable supporting device for a railway car side door comprising a support element, a member element

having a roller mounted thereon, one of said elements having a plurality of pairs of apertures therein substantially circumferentially arranged around a point, the apertures



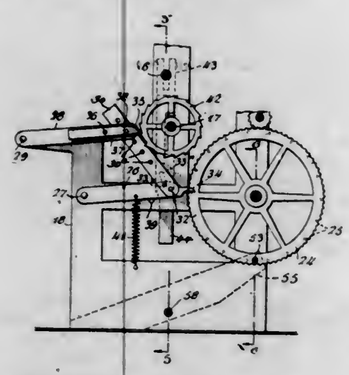
of each of said pairs of apertures being equi-distant apart, the axis of said roller being located eccentric to said point, and means passing through said apertures to hold the elements together.

1,784,030. TRANSFORMER. ANDREW J. SORENSEN, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Aug. 30, 1928. Serial No. 303,039. 3 Claims. (Cl. 171—119.)



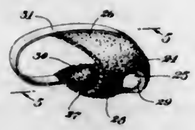
1. In combination, a transformer, a primary circuit for said transformer including a source of alternating current and a secondary circuit including a load, a regulating winding on said transformer, and a circuit for said regulating winding including said source of alternating current and a copper oxide rectifier.

1,784,031. TIMING APPARATUS. EDWIN SPENGEMAN, New York, N. Y. Filed Sept. 13, 1928. Serial No. 305,637. 2 Claims. (Cl. 161—15.)



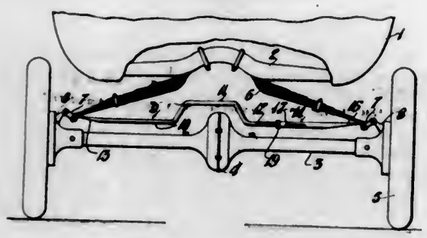
2. A timing apparatus comprising a casing provided with a sight opening, a rotatable dial arranged to make one complete revolution across said opening in a predetermined time period, and divided on its one face into a plurality of sectors containing appropriate inscriptions, a driven master gear provided with an aperture, a plurality of pins carried by said master gear and projecting from a face thereof at spaced intervals, a ratchet wheel connected with said dial, a linkage system arranged to be intermittently operated by said pins, a pawl yieldingly mounted on said linkage system and co-operating with said ratchet wheel to intermittently rotate said dial to bring the sectors thereof successively into view through said opening, means controlled by said linkage system for locking said dial against rotation and for releasing it, and means co-operating with the aperture of said master gear for controlling the stopping and starting of said gear.

1,784,032. BUNION APPLIANCE. MAXIMILIAN STERN, New York,, N. Y. Filed Jan. 16, 1929. Serial No. 332,995. 1 Claim. (Cl. 128—81.)



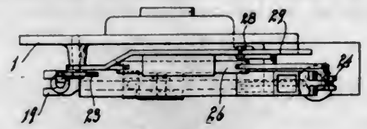
A bunion appliance comprising a unitary body of soft, yieldable, spongy rubber, said body being substantially U-shaped and having an opening adapted to receive the great toe, the portion of said body adjacent one side of said opening constituting a protective sheath for enclosing the mesial side of the head of the first metatarsal-phalangeal joint, the portion of said body adjacent the other side of said opening being of sufficient thickness when compressed to constitute a wedge adapted to occupy the space between the great toe and the adjacent toe, the arms of the U defining top and bottom portions adapted to overlie and underlie, respectively, the upper and lower surfaces of the foot, said bottom portion being thickened to form a support for the metatarsal arch and a band of yieldable material attached to said body and adapted to encircle all the bones of the metatarsal arch behind the heads thereof to reestablish said arch.

1,784,033. AUTOMOBILE TOOL. GEORGE E. SWANBY, Burlington, Wash. Filed July 12, 1928. Serial No. 292,279. 1 Claim. (Cl. 29—87.1.)



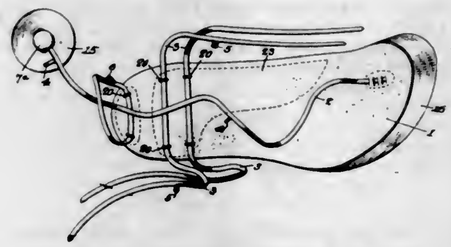
In a device of the kind described, a rigid member having a spring engaging end and a threaded end, the same also having a U-shaped offset, an extensible member having a spring engaging end and a bore for engaging the threaded end of the other member and with an elongated slot through the wall of the bore, the threaded end of the said rigid member having a pin adapted to engage the said slot and a nut upon the said threaded end for longitudinally adjusting the extensible member relative to the said rigid member.

1,784,034. CLAMPING MACHINE FOR SNAP FASTENERS. PAUL R. VITTE, Long Beach, Calif. Filed Oct. 19, 1929. Serial No. 400,817. 9 Claims. (Cl. 153—1.)



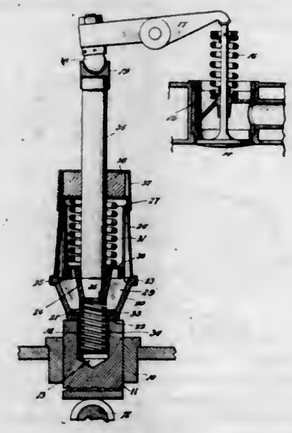
1. A snap fastener clamping machine comprising a frame, a feeding block, means to feed said fasteners into the block, means slidably mounted in the block whereby a fastener is engaged and moved adjacent the forward end of said block, plunger means engaging said fastener, means to operate said plunger means, and means engageable with the fastener whereby said fastener is crimped on to the material and means to actuate said last named means.

1,784,035. FOOTWEAR. FELIX F. VON WILMOWSKY, New York, N. Y. Filed May 15, 1928. Serial No. 277,853. 8 Claims. (Cl. 36—1.)



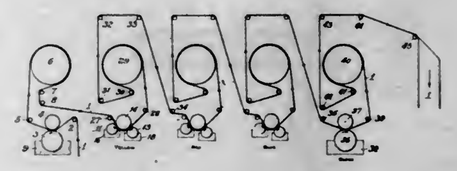
1. In a footwear, the combination of a sole, a toe strap which is attached to the fore part of the sole and which passes between the toes and is looped approximately horizontally around the ankle when the footwear has been put on the foot; and a means by which the toe strap is kept locked tightly around the ankle after the footwear has been put on the foot.

1,784,036. VALVE-ACTUATING MECHANISM. CALVIN C. WILLIAMS, Philadelphia, Pa. Filed Sept. 6, 1928. Serial No. 304,369. 3 Claims. (Cl. 123—90.)



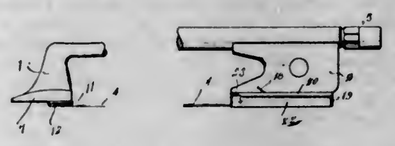
1. An automatic take-up device including nested conical clutch members comprising rigid inner and outer members and a coacting intermediate member movable axially between the inner and outer members, the intermediate member including a plurality of clutch elements having flat contact with the inclined faces of the inner and outer members and shiftable for spacing said inner and outer members, yieldable means tending to axially shift said intermediate member in one direction, and yieldable means tending to axially shift the inner member in the opposite direction.

1,784,037. PRINTING PRESS. OTTO R. WOLF, River Forest, Ill., assignor to The Tribune Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 5, 1925. Serial No. 73,487. 32 Claims. (Cl. 101—152.)



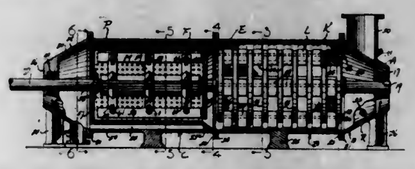
2. A printing unit, comprising a plurality of printing sections each having a cylinder, a color fountain, means for rotatably supporting the cylinder and carried by the fountain, and means for adjusting the position of each section, said printing section being relatively narrow with respect to the width of the web and being each adapted to print an impression upon a particular part of the web independently of the printing of the remainder of said web.

1,784,038. VIOLIN BOW. CHARLES C. AUGUSTINE, North Liberty, Iowa. Filed Jan. 16, 1929. Serial No. 332,940. 5 Claims. (Cl. 84—282.)



1. In a bow for stringed musical instruments, a tip having a socket in its under side, strands of hair having their ends engaged in said socket, a clip securing the ends of said strands and fitting in the socket, and a shoe having upwardly converging flanges along its edges whereby it may be engaged with and held on the tip and extending over said socket to retain the clip and the ends of the strands therein, said shoe being provided with a slot through which the strands of hair pass.

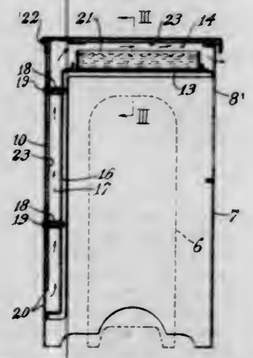
1,784,039. WOOD-PULP PRODUCTION AND REFINING. LINUS A. BRAUN, Minneapolis, Minn. Filed Feb. 5, 1929. Serial No. 337,684. 7 Claims. (Cl. 92—20.)



1. In a pulp reducing machine the combination of a container of substantially cylindrical formation having an inner pulp shearing and cutting surface, hammer means

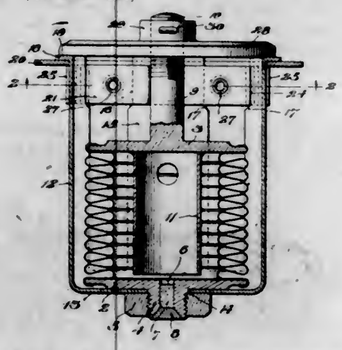
operating in spaced relation with said cutting surface for urging pulp and fibrous material in a shearing relation against the cutting surface, means to feed raw material or pulp into said container, means to supply a liquid in a longitudinally flowing relation to said container for carrying the pulp thereaiong, a screening container into which the pulp flows from the first mentioned container, and means operating in the screen container for centrifugally urging the pulp through the perforations of the screen container.

1,784,040. RADIATOR CABINET. JOSEPH H. BRYAN, Birmingham, Ala., assignor of two-thirds to Walter L. Simpson, Birmingham, Ala. Filed Apr. 25, 1929. Serial No. 358,132. 2 Claims. (Cl. 237—138.)



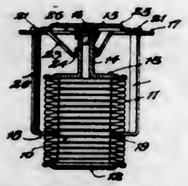
2. In a radiator cabinet embodying end walls, a rear wall, a grilled front wall and a cover, a vertical partition secured in spaced relation to the rear wall to form a vertical passage and being joined to the rear wall at the bottom to close it to the interior of the cabinet, said rear wall being provided with holes for the admission of cold air to the bottom of the vertical passage, a horizontal partition secured in spaced relation to the cover to form a horizontal passage merging with the vertical passage and opening through the grilled front wall, a water pan mounted on the horizontal position, and means for insulating the inner side of said rear wall and cover throughout the passages.

1,784,041. THERMOSTATICALLY-CONTROLLED VALVE MECHANISM. WILLIAM W. CARSON, Jr., Knoxville, Tenn., assignor, by mesne assignments, to The Fulton Sylphon Company, Knoxville, Tenn., a Corporation of Delaware. Filed Oct. 30, 1926. Serial No. 145,344. 20 Claims. (Cl. 236—34.)



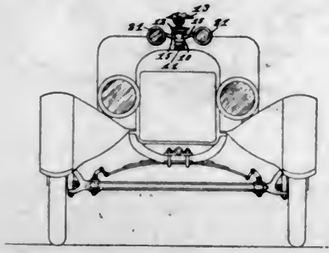
1. In a device of the character described, in combination with a thermostat and a valve member operatively connected thereto, a cage for said thermostat provided at its open end with an outwardly directed flange constituting a valve seat for said valve member.

1,784,042. THERMOSTAT SUPPORT. WILLIAM W. CARSON, Jr., Knoxville, Tenn., assignor to The Fulton Sylphon Company, Knoxville, Tenn., a Corporation of Delaware. Filed Oct. 6, 1927. Serial No. 224,482. 10 Claims. (Cl. 297—8.)



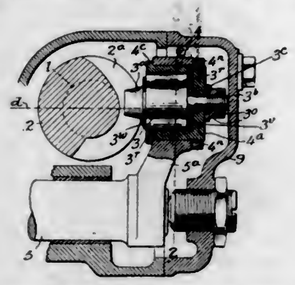
1. In a thermostatically-operated device, in combination with a thermostat having a corrugated tubular wall, a support for said thermostat including a plurality of elements each having an arcuate portion and one or more arms extending at an angle thereto, said arcuate portions forming an annular support embracing said thermostat within a recess formed by the corrugations thereof and said arms extending axially of said thermostat closely adjacent the tubular wall thereof.

1,784,043. RADIATOR CAP AND MOVABLE HEADLIGHT. SAM CENTOFANTI and ANNIBALE MARCHETTI, Youngstown, Ohio. Filed Apr. 20, 1929. Serial No. 356,780. 3 Claims. (Cl. 240—61.)



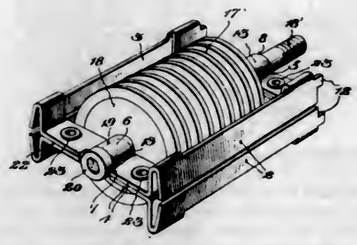
1. A movable headlight construction comprising laterally disposed arms having communication with the interior thereof, lamps for the arms having swivel connection therewith, a shaft establishing connection between the mountings for the lamps, segments carried by said mountings, bars having tooth portions upon the ends thereof adapted for engagement with the segments, an operating rod, and gear members carried upon the shaft and operating rod to provide a common control means whereby the lamps may be collectively and simultaneously tilted and laterally shifted respectively.

1,784,044. STEERING-GEAR. FRANKLIN F. CHANDLER, La Fayette, Ind., assignor to Ross Gear & Tool Company, La Fayette, Ind., a Corporation of Indiana. Filed Oct. 2, 1929. Serial No. 396,833. 9 Claims. (Cl. 74—79.)



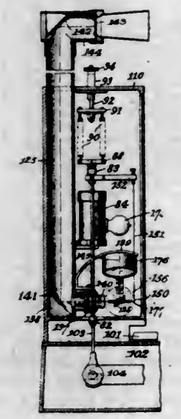
1. In a steering gear, a cam and a rocker arm having an opening opposite the cam; a bushing mounted in said opening having a closed end wall; a pin rotatably mounted in said bushing and having a head engaging said cam groove and a shank projecting out of the bushing and means engaging the shank to confine the pin in the bushing; said pin being rotatable but not axially movable in the bushing.

1,784,045. THERMOSTAT SUPPORT. THOMAS R. CLARK, Knox County, Tenn., assignor to The Fulton Sylphon Company, Knoxville, Tenn., a Corporation of Delaware. Filed Oct. 30, 1926. Serial No. 145,342. 10 Claims. (Cl. 297—8.)



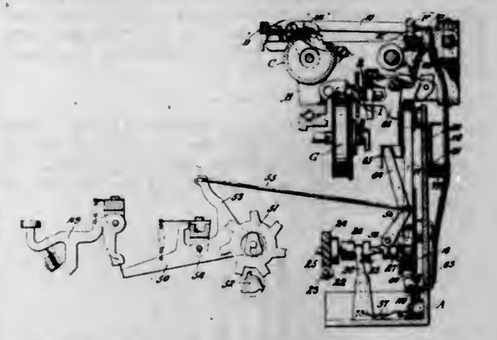
1. A thermostat support composed of sections formed of sheet metal and each including longitudinally extending side members connected by cross pieces provided with a bend extending in the direction of said side members at the junction of said cross pieces and side members whereby said side members constitute stiffening flanges.

1,784,046. METROSCOPIC FORCE-MEASURING INSTRUMENT. ROBERT CRAIG, Dayton, Ohio, assignor to International Business Machines Corporation, a Corporation of New York. Original application filed June 4, 1920, Serial No. 386,453. Divided and this application filed Oct. 14, 1922. Serial No. 594,535. 29 Claims. (Cl. 265—37.)



1. A weighing and price-computing scale comprising in combination, a chart having a set of weight indications and a plurality of sets of price indications, manually operable means for selectively controlling the visibility of said sets of price indications, and means including a weight-controlled optical device for distinctively disclosing a portion of said set of weight indications and a portion of any selected set of said price indications.

1,784,047. TYPEWRITING MACHINE. GUSTAVE O. DEGENER, Brooklyn, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y. Filed Sept. 18, 1928. Serial No. 306,755. 13 Claims. (Cl. 197—65.)



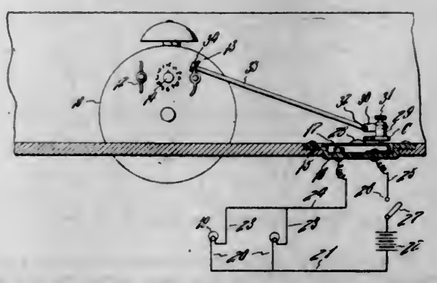
1. In a typewriting machine, the combination with a carriage, of means for effecting carriage travel in one direction including an escapement mechanism embodying a normally engaged pinion and a rack, means for supporting the rack for movements into and out of engagement with the pinion, and a power operated mechanism for first disengaging the rack from the pinion and then effecting the carriage travel in the opposite direction.

1,784,048. LAMP SHADE. INGVAR E. DE SHERBININ, New York, N. Y. Filed Sept. 12, 1928. Serial No. 305,568. 7 Claims. (Cl. 240—108.)



1. A lamp shade of frusto-conoidal form made from a single blank having a top provided with a hole through which a supporting member is adapted to extend, pleated sides with overlapping portions and a curled lower edge into which are rolled the lower extremities of the pleated sides, whereby said shade is stiffened laterally by said rolled edge reinforced by said pleated portions and said shade is stiffened longitudinally by said pleats held in locked position by said rolled edge.

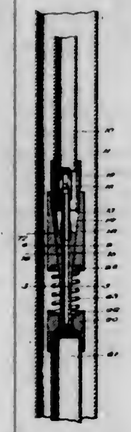
1,784,049. MUSICAL ALARM. HENRY FAHRENHOLTZ, Dayton, Ky., assignor of one-third to Joseph Fahrenholtz and one-third to Elzie Winters, Dayton, Ky. Filed Apr. 11, 1924. Serial No. 705,887. 1 Claim. (Cl. 161—23.)



Means for starting the operation of a talking machine including a turntable for supporting a record and further including a brake lever adapted normally to hold the turntable against rotation, comprising a chronometrically

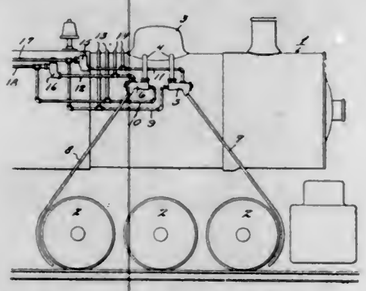
released rotary element carrying a forked member, a member mounted on the brake lever near the free end thereof and provided with an ear, a rod pivotally connected with said ear and having its free end terminating in a head, said head being engageable within said forked member whereby upon rotation of said rotary element said forked member will operate to pull said rod and swing said lever into released position to permit rotation of the record carrying turntable.

1,784,050. DUMP AND SEAL-TUBING VALVE. HOWARD F. FORTINBERRY, Fort Worth, Tex., assignor to Gulf Production Company, Houston, Tex., a Corporation of Texas. Filed Aug. 30, 1929. Serial No. 389,512. 9 Claims. (Cl. 103—220.)



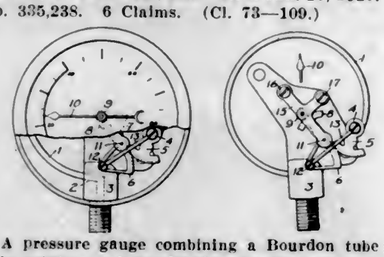
1. In a device of the character described, the combination of a working barrel, a valve seat carried by said barrel, a coupling spaced below said barrel, said coupling and barrel being movable toward and from each other and a valve attached to said coupling and operatively associated with said valve seat, foreign material within said barrel being free to escape at a point between the coupling and valve seat member when said valve is unseated by movement of the barrel and coupling toward each other.

1,784,051. LOCOMOTIVE SANDING DEVICE. VIRGIL L. FRANTZ and OREN O. LEMON, Roanoke, Va., assignors to said Frantz. Filed Feb. 13, 1929. Serial No. 339,715. 12 Claims. (Cl. 291—12.)



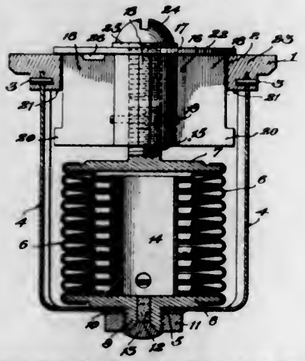
1. In a locomotive sanding mechanism including a sand dome, sand traps receiving sand from the dome and having delivery pipes connected therewith, each sand trap having a cleaning pipe leading thereinto and having a sand discharge pipe leading thereinto, a compressed air supply pipe, and an automatic valve interposed between each cleaning pipe and supply pipe beyond the point of connection of the discharge pipe with the supply pipe, said automatic valve being normally open and being adapted to close under the influence of air pressure whereby an initial blast of predetermined duration will be permitted to flow through the cleaning pipe.

1,784,052. VAPOR-PRESSURE GAUGE. PHILO M. GELATT, Miami Beach, Fla. Filed Jan. 26, 1929. Serial No. 335,238. 6 Claims. (Cl. 73—109.)



4. A pressure gauge combining a Bourdon tube; a rotatable pointer; a lever fulcrumed intermediate its ends, one end of said lever having a gear connection with said pointer for rotating the latter and the other end of said lever having an arcuate portion; a member pivotally mounted upon the free end of said Bourdon tube and having an arcuate portion in rolling engagement with the arcuate portion of said lever; and means to maintain said arcuate portions in rolling contact during deflection of said Bourdon tube.

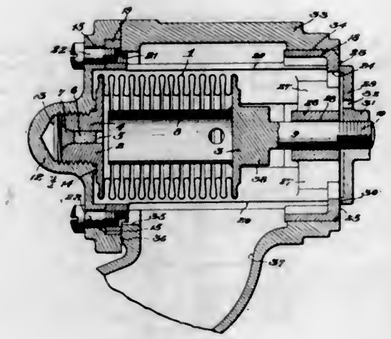
1,784,053. VALVE MECHANISM. JEAN V. GIESLER, Knoxville, Tenn., assignor, by mesne assignments, to The Fulton Syphon Company, Knoxville, Tenn., a Corporation of Delaware. Filed Aug. 14, 1926. Serial No. 129,182. 7 Claims. (Cl. 236—34.)



1. In a thermostatically controlled valve unit, in combination with a member providing a valve port, an expansible and contractible thermostatic element, a valve member having a greater area than said valve port and connected to said thermostatic element, said valve member being adapted to seat on said first named member and close said port, and means connected to and disposed between said valve member and thermostatic element and having laterally projecting elements which cooperate with the periphery of said port to limit the opening movement of said valve member.

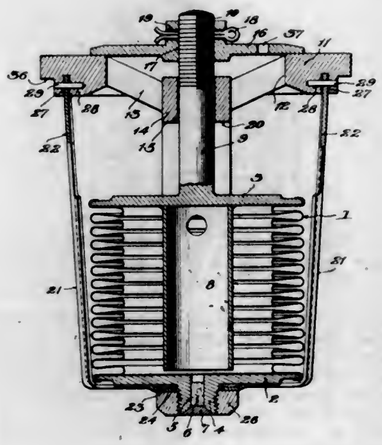
1,784,054. THERMOSTATICALLY-CONTROLLED VALVE MECHANISM. JEAN V. GIESLER, Knoxville, Tenn., assignor, by mesne assignments, to The Fulton Syphon Company, Knoxville, Tenn., a Corporation of Delaware. Filed Oct. 30, 1926. Serial No. 145,340. 9 Claims. (Cl. 236—34.)

1. In a device of the character described, in combination with a fitting having a pair of alined apertures therein, a thermostat, a valve stem and a valve disk operatively connected thereto, and a cage for said thermostat composed of a head portion adapted to be inserted through one of said apertures and to fit within the other of said



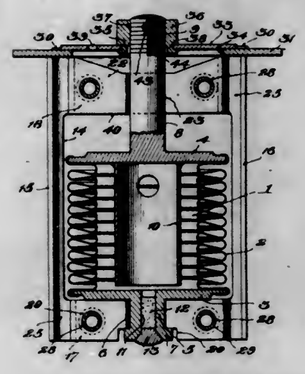
apertures and a base portion connected to said head portion by longitudinally extending ribs, said head portion having an integral valve stem guide and an inwardly directed flange constituting a valve seat for said valve disk.

1,784,055. THERMOSTATICALLY-CONTROLLED VALVE MECHANISM. JEAN V. GIESLER, Knoxville, Tenn., assignor, by mesne assignments, to The Fulton Syphon Company, Knoxville, Tenn., a Corporation of Delaware. Filed Oct. 30, 1926. Serial No. 145,341. 5 Claims. (Cl. 236—34.)



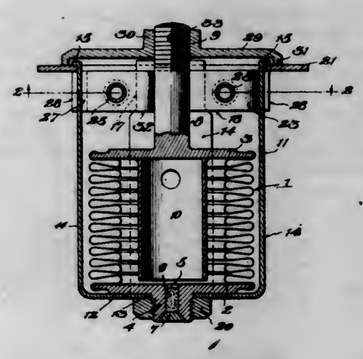
1. In a device of the character described, in combination with a thermostat including movable and stationary end walls, valve mechanism operatively related thereto and including a valve disk and a valve seat, said valve seat being provided with one or more slots, a support for said thermostat secured to said stationary end wall and having its ends secured in said slots.

1,784,056. THERMOSTATICALLY-CONTROLLED VALVE MECHANISM. JEAN V. GIESLER, WILLIAM W. CARSON, JR., and THOMAS R. CLARK, Knoxville, Tenn., assignors, by mesne assignments, to The Fulton Syphon Company, Knoxville, Tenn., a Corporation of Delaware. Filed Oct. 30, 1926. Serial No. 145,343. 23 Claims. (Cl. 236—34.)



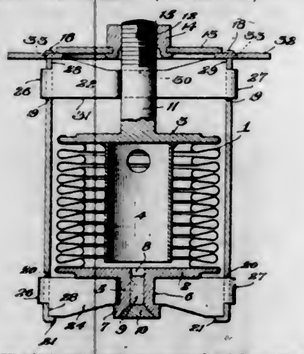
1. In a thermostatically-operated valve mechanism of the character described, a valve member composed of a sheet metal disk provided with an interiorly threaded hub secured to said disk.

1,784,057. THERMOSTATICALLY-CONTROLLED VALVE MECHANISM. JEAN V. GIESLER, Knoxville, Tenn., assignor, by mesne assignments, to The Fulton Syphon Company, Knoxville, Tenn., a Corporation of Delaware. Filed Oct. 30, 1926. Serial No. 145,345. 18 Claims. (Cl. 236—34.)



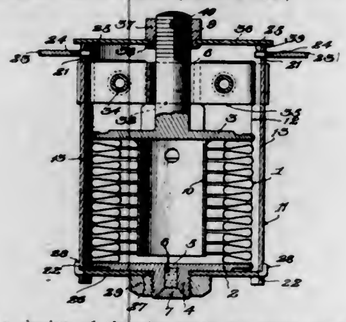
1. In a device of the character described, in combination with a thermostat and a valve member operatively connected thereto, a thermostat support having a plurality of axially extending arms, and a ring notched to receive and retain said arms.

1,784,058. THERMOSTAT SUPPORT. JEAN V. GIESLER, Knoxville, Tenn., assignor, by mesne assignments, to The Fulton Sylphon Company, Knoxville, Tenn., a Corporation of Delaware. Filed Oct. 30, 1926. Serial No. 145,347. 19 Claims. (Cl 297—8.)



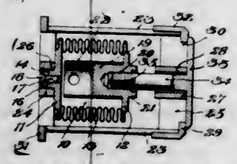
1. A thermostat support composed of longitudinally extending lateral members and a plurality of transverse members connecting said lateral members and each composed of sections secured together by their connection to said lateral members.

1,784,059. THERMOSTAT SUPPORT. JEAN V. GIESLER, Knoxville, Tenn., assignor, by mesne assignments, to The Fulton Sylphon Company, Knoxville, Tenn., a Corporation of Delaware. Filed Oct. 30, 1926. Serial No. 145,348. 23 Claims. (Cl. 236—34.)



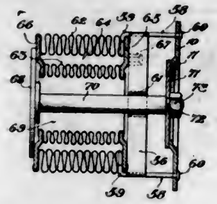
1. In a device of the character described, in combination with a thermostat, a combined cage and support for said thermostat including a lateral member formed of sheet metal and provided with alternating ribs and apertures to form fluid-admitting openings, said lateral member being also provided with tab receiving apertures and a base member to which said thermostat is attached provided with tabs secured in said apertures and retaining said lateral member in shape.

1,784,060. THERMOSTATICALLY - CONTROLLED VALVE UNIT. JEAN V. GIESLER, Knoxville, Tenn., assignor, by mesne assignments, to The Fulton Sylphon Company, Knoxville, Tenn., a Corporation of Delaware. Filed Jan. 28, 1927. Serial No. 164,358. 9 Claims. (Cl. 236—34.)



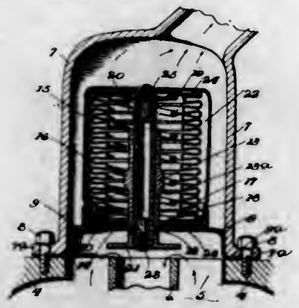
1. In a thermostatically operated valve unit, in combination with a thermostat, a thermostat support forming a complete integral generally rectangular frame with which the thermostat may be assembled by lateral movement through the opening thereof, and means whereby the thermostat may be fixedly attached to one of the sides of the complete frame, the opposite side of said frame being provided with a valve seat and with guiding means for the expansive and contractive movements of the thermostat.

1,784,061. THERMOSTATICALLY - CONTROLLED VALVE MECHANISM. JEAN V. GIESLER, Knoxville, Tenn., assignor to The Fulton Sylphon Company, Knoxville, Tenn., a Corporation of Delaware. Filed May 26, 1927. Serial No. 194,445. 18 Claims. (Cl. 236—34.)



1. In a thermostatically-operated valve mechanism for controlling the circulation of cooling medium through the cooling system of an internal combustion engine, the combination of a valve seat ring, a thermostat having movable and stationary end walls, the movable end wall being on the opposite side of the stationary end wall from said valve seat ring and moving away from said ring on expansion of said thermostat, and a valve member disposed between said stationary end wall and said valve seat ring and operatively connected to said thermostat.

1,784,062. TEMPERATURE REGULATOR. JEAN V. GIESLER, Knoxville, Tenn., assignor to The Fulton Sylphon Company, Knoxville, Tenn., a Corporation of Delaware. Filed July 28, 1927. Serial No. 209,103. 21 Claims. (Cl. 236—34.)

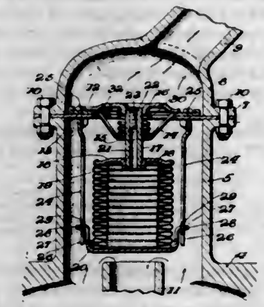


1. In a thermostatically operated valve mechanism for controlling the flow of cooling medium in the cooling system of an internal combustion engine, a plurality of valves, a thermostat controlled by the temperature of the cooling medium and operatively connected to said valves, and means yieldingly opposing expansion of said thermostat in one direction, until said thermostat has first expanded in the opposite direction.

1,784,063. TEMPERATURE REGULATOR. JEAN V. GIESLER, Knoxville, Tenn., assignor to The Fulton Sylphon Company, Knoxville, Tenn., a Corporation of Delaware. Filed Apr. 19, 1928. Serial No. 271,283. 12 Claims. (Cl. 236—34.)

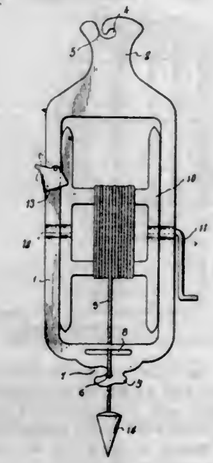
1. In combination, a thermo-sensitive element having a flexible tubular external wall and a valve at each end,

means whereby expansion of the element opens one valve and closes the other, a support for said element permitting



it to expand successively in opposite directions and a spring for biasing one of the valves away from its seat, whereby the valve are operated in sequence.

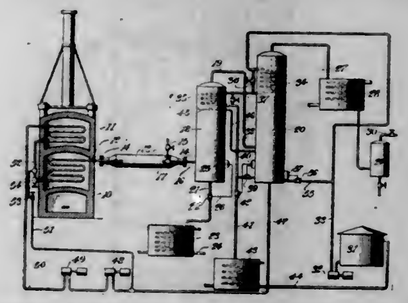
1,784,064. CHALK-LINE REEL. GEORGE M. GRISWOLD, Denver, Colo. Filed July 31, 1928. Serial No. 296,442. 2 Claims. (Cl. 242—77.)



1. A line holder comprising an oblong flat frame, having flat terminal extensions, in which are formed eyes and passages leading outwardly from the eyes, an end bar of the frame having a transverse slot formed therein, a flat reel fitted within the frame, a pin and a crank pivotally connecting the reel to the frame, and a catch mounted upon the frame and comprising side elements engageable with opposite faces of the reel and frame and a cross piece forming a stop and finger piece.

1,784,065. METHOD OF CRACKING HYDROCARBONS. GEORGE C. HARGROVE, Westfield, and WALTER B. MONTGOMERY, Elizabeth, N. J., assignors, by mesne assignments, to Gasoline Products Company, Inc., Wilmington, Del., a Corporation of Delaware. Filed Dec. 20, 1927. Serial No. 241,295. 6 Claims. (Cl. 196—47.)

3. A process of converting hydrocarbons which comprises continuously forcing a stream of heavy hydrocarbons under pressure through a cracking apparatus, supplying heat to said cracking apparatus to raise the oil therein to a cracking temperature, shutting off the supply of said heavy hydrocarbons when sufficient carbon has deposited in said apparatus to render it desirable to remove the same, displacing the heavy hydrocarbons in the

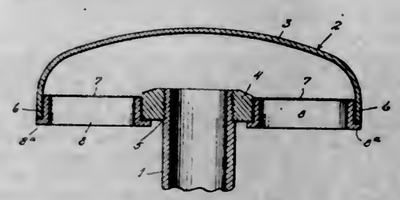


cracking apparatus by a relatively light hydrocarbon distillate, and then shutting off the supply of heat to said cracking apparatus, and reducing the pressure on the hydrocarbons contained therein.

1,784,066. PROCESS FOR PRODUCING HYDROXIDES OF ALKALI METALS. ERNST HEINZE, Wiesdorf, near Cologne-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed Mar. 26, 1926, Serial No. 97,777, and in Germany Apr. 1, 1925. 2 Claims. (Cl. 23—184.)

1. The process which comprises agitating an amalgam of an alkali-forming metal in the presence of water by means of a stirrer composed of carbon material.

1,784,067. TANK VENT DEVICE. JAMES B. HOLTSON, Baltimore, Md., assignor to The Huffman Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Filed Mar. 3, 1927. Serial No. 172,428. 1 Claim. (Cl. 220—44.)

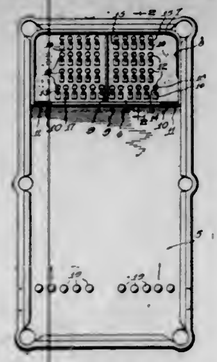


A tank vent device comprising a single integral hollow body with a convexly curved top and a plane flat bottom, the bottom being formed with a central opening adapted to receive a pipe and being further formed with other openings located near the ends, sleeve members telescopically engaged within the second named openings, and wire screen covering said second named openings and frictionally held in place by said sleeve members.

1,784,068. GAME APPARATUS. ELMER E. JOHNSON, Joplin, Mo. Filed Jan. 9, 1929. Serial No. 331,214. 1 Claim. (Cl. 273—123.)

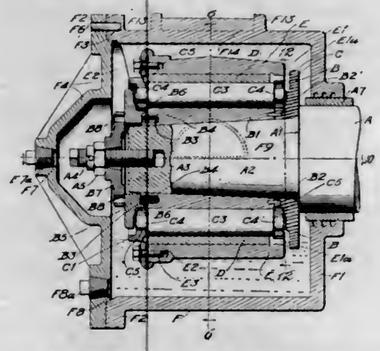
In game apparatus, a table top having a ball receiving pocket therein, a base element secured to said top near the forward side of said pocket, and a card supporting element pivotally connected to said base element adjacent the upper extremity of said pocket and arranged whereby said card supporting element normally rests upon and is parallel with the upper surface of said top, said

card supporting element having a longitudinally curved extension projecting into and covering a portion of said



pocket, said extension being engageable by a ball to move said card supporting element into an upright position and to retain the latter element in upright position.

1,784,069. RAILWAY-CAR JOURNAL BOX. FRANK MAXANT, Ayer, Mass. Filed June 17, 1927. Serial No. 199,524. 4 Claims. (Cl. 308—180.)



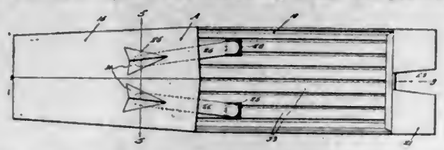
1. In a structure of the kind described, the combination with an axle, of a sleeve fitted around the axle and having threaded sockets in its outer end, a cap having holes in alignment with said sockets, a bolt extending loosely through said cap and seated in the end of the axle and screw threaded on the part extending through the cap, and a nut adapted to be threaded on said bolt on either side of said cap, and said sockets and the holes in the cap being adapted to receive bolts extending through said holes and threaded in said sockets.

1,784,070. SOFT RUBBERLIKE COMPOSITION. EFFIE H. MOSS, Chillicothe, Ohio. Filed Jan. 10, 1927. Serial No. 160,312. 1 Claim. (Cl. 106—39.)

A rubber-like composition comprising linseed oil, lime, water, isinglass, soap solution, tincture of benzoin, grease, and mercury, in about the proportions of linseed oil two teaspoons; lime one teaspoon; water one and one-half ounces; isinglass one teaspoon; soap solution one teaspoon; tincture of benzoin five drops; grease one-quarter teaspoon, and mercury one drop.

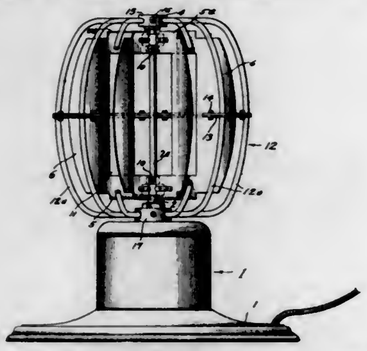
1,784,071. BOAT. FRANK M. NORMAN, Galena, Ill. Filed Feb. 8, 1929. Serial No. 338,447. 1 Claim. (Cl. 114—66.5.)

A boat comprising a hull including a longitudinally disposed wedge-shaped bow having a flat downwardly inclined bottom wall, a main flat bottom wall stepped above and merging with the inclined bottom wall of the bow at a point forwardly of the transverse median of the hull, said main bottom wall terminating at its rear end in an upstanding stern wall, a pair of pontoons carried by the stern wall stepped above the main bottom wall and disposed in spaced relation to each other on the opposite sides of the axis of the hull to form a pocket for an outboard motor, fins depending from the pontoons,



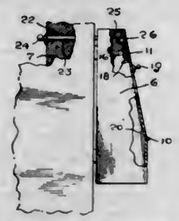
longitudinally extending spaced strips carried by the main bottom wall and co-extensive therewith to form an air channel in conjunction with the main bottom wall, conductors extending through the hull having their inner terminals in said channel, a transversely curved rearwardly inclined top deck over a portion of the hull merging at its forward end with the bow, canopies secured to the top deck and rising therefrom, the outer ends of the conductors terminating in said canopies.

1,784,072. ELECTRIC FAN. MARSHALL F. OLIVER, Charlottesville, Va. Filed Feb. 27, 1930. Serial No. 431,856. 8 Claims. (Cl. 230—259.)



1. A desk fan including a fan element comprising a lower hub member, and an upper hub arranged in spaced vertical relationship and a plurality of blades attached to said hub members, each blade comprising two radial impellers having means to draw the air axially into the center of the fan and an impelled parallel to the axis connecting the two horizontal impellers, said last named impeller having means to expel said air radially from said fan.

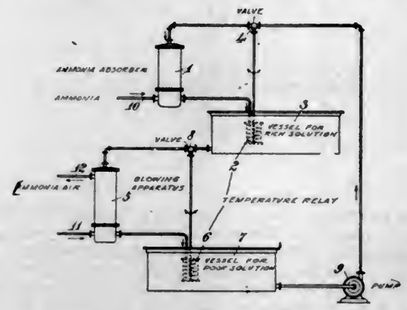
1,784,073. SAFETY MILK-BOTTLE CONTAINER. RALPH WELSFORD PARKER, Falmouth, Nova Scotia, Canada. Filed Apr. 3, 1928. Serial No. 267,041. 1 Claim. (Cl. 232—41.)



A device of the character described comprising a container adapted to be attached to the wall of a house and

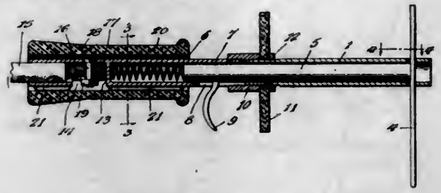
having a front door hinged thereto at its bottom edge, a spring for swinging said door outwardly, a keeper attached to the inside of said door at its upper edge, a bracket attached to the inside of the front wall of the container above said keeper, a bolt slidably mounted in said bracket adapted to engage said keeper, a coil spring mounted on said bolt for keeping the bolt in engagement with said keeper, a pulley mounted above said bracket, an actuating bar slidably mounted through apertures in the wall of the house and back of the container, and a cable connecting the inner end of said bar with said bolt, said cable extending over said pulley.

1,784,074. APPARATUS FOR THE PRODUCTION OF AMMONIA-AIR MIXTURES. HARRY PAULING, Berlin, Germany. Filed Dec. 29, 1927, Serial No. 243,370, and in Germany Oct. 15, 1926. 1 Claim. (Cl. 23—252.)



A system for producing a uniform ammonia-air mixture comprising a liquid circulating system; an ammonia absorber in said system; means for forcing an air current into the ammonia solution; and control members for automatically controlling the circulation of the liquid and operated by means of variations in the specific gravity of the solution.

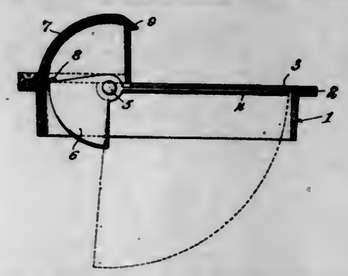
1,784,075. ELECTRODE HOLDER. JAMES H. QUISENBERRY, Louisville, Ky., assignor of one-half to Robert S. Johnson, Louisville, Ky. Filed Nov. 6, 1929. Serial No. 405,203. 2 Claims. (Cl. 219—8.)



1. An electrode holder comprising alined tubes, seats in the forward tube adjacent the front end of the same for receiving a welding rod, means for coupling the tubes, the rear tube having a longitudinal slot at its front end, a plunger slidably fitted in the tubes and adapted to engage a welding rod to hold the same in the same in the seats in the forward tube, a handle projecting from the plunger through the slot in the rear tube, and an expansion spring housed in the rear tube at the rear of the plunger and bearing upon the plunger.

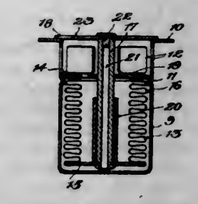
1,784,076. APPARATUS FOR AUTOMATIC OPENING AND CLOSING OF SEWER INLETS. ORLANDO ROÇAS, Rio de Janeiro, Brazil. Filed Aug. 14, 1929, Serial No. 385,734, and in Brazil Aug. 23, 1928. 2 Claims. (Cl. 182—6.)

1. In an apparatus of the character described, a casing open at its top and including walls, formed along the upper edge with an outwardly extending flange and having a portion of one edge provided with an inwardly extending flange; a covered portion having a vertical front wall and a curved rear wall terminating at its bottom edge with an outwardly extending flange adapted to rest upon the corresponding flange of said wall and forming



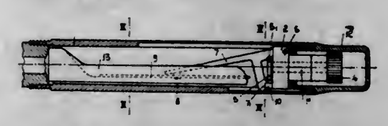
therewith a closed safety chamber, said chamber having its upper and forward edge formed with a deflecting lip; a closure consisting of a flat lid and a counterpoise; and trunnions for said closure and bearings in the casing wall to support said trunnions for swinging movement of said lid inwardly by the weight of inflowing material.

1,784,077. THERMOSTATICALLY-CONTROLLED VALVE MECHANISM. WILLIAM F. SEARLE, Jr., Knoxville, Tenn., assignor to The Fulton Syphon Company, Knoxville, Tenn., a Corporation of Delaware. Filed Aug. 1, 1927. Serial No. 209,981. 10 Claims. (Cl. 236—34.)



1. In a thermostatically controlled valve mechanism for controlling the circulation of cooling medium through the cooling system of an internal combustion engine, the combination of a thermostat comprising an outer cup-shaped wall and an inner flexible tubular wall having one end secured to and forming with said outer wall a chamber for a thermosensitive fluid, valve seat means carried by said cup-shaped wall adjacent the open end thereof, a valve stem secured to the movable end of said flexible wall, and a valve on said stem on the opposite side of said seat from said thermostat, the stationary end of said flexible wall being intermediate said valve and the movable end of said flexible wall.

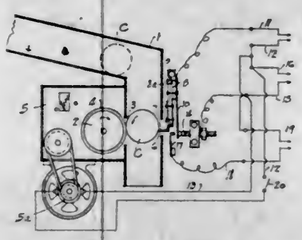
1,784,078. DEVICE FOR AUTOMATICALLY FILLING FOUNTAIN PENS. ARMANDO SIMONI, Bologna, Italy. Filed May 26, 1930, Serial No. 455,834, and in Italy May 20, 1929. 5 Claims. (Cl. 120—46.)



1. A fountain pen operating mechanism comprising a barrel, a collapsible sac disposed in said barrel, said mechanism comprising a plug in the barrel, a rotatable shaft in said plug, a presser bar lever pivoted to the plug and

overlying the sac, a presser bar carried by said lever and engaging the sac, an L-shaped arm carried by the lever thereby forming an eccentric receiving recess, an eccentric carried by the shaft within the recess, said eccentric forming means when rotated for oscillating the presser bar lever.

1,784,079. COIN-CONTROLLED SWITCH. LELAND D. SLUSSER, Ottawa, Ohio, assignor to Slusser Holding, Inc., Ottawa, Ohio, a Corporation of Ohio. Filed May 27, 1929. Serial No. 366,134. 4 Claims. (Cl. 194—9.)

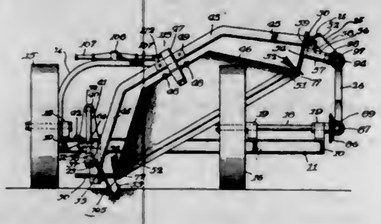


1. In a device of the class described, a rotatable member having a continuously circular periphery, a movable circuit-closing member in opposed relation to said rotatable member, and means for delivering a coin between said members, thereby to move said circuit-closing member to operative position, said rotatable member imparting a rolling action to the coin to cause same to travel past said circuit-closing member, said movable circuit closing member holding the coin against rotation at its point of contact therewith.

1,784,080. METHOD OF MANUFACTURING ELECTRICALLY-WELDED VESSELS. RICHARD STRESAU, Wauwatosa, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Apr. 18, 1929. Serial No. 356,073. 1 Claim. (Cl. 148—1.)

The method of manufacturing electrically welded thick walled pressure vessels which comprises annealing the metal plates from which the vessel is to be made, rolling said plates into rings during said annealing operation while the metal thereof is in a heated softened condition, electrically welding the longitudinal meeting edges of each ring plate, heating said welded rings to an annealing temperature reforming the same to true the circular dimensions thereof, electrically welding said rings end to end to form an integral tubular structure, closing the end of said structure, and finally heating said closed structure to a temperature sufficient to substantially relieve the stresses set up therein during the forming and welding operation but insufficient to cause deformation of the structure.

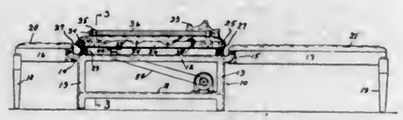
1,784,081. HARVESTING MACHINE. WILLIAM E. URSCHEL, Valparaiso, Ind. Filed Dec. 18, 1926. Serial No. 155,720. 12 Claims. (Cl. 55—108.)



1. The combination with a wheeled frame, of a U-shaped support adjustably associated with said frame, a circular member rotatively associated with said support, and an endless belt carried by said U-shaped support to contact with said circular member which moves in unison therewith, said circular member and belt constituting soil embedded article pulling means.

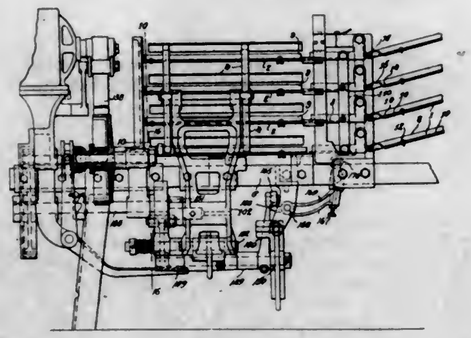
5. The combination with a wheeled frame, of a truncated cone having at its edge a second and narrow truncated section of more nearly cylindrical configuration than the major portion of said cone, and flexible means coacting with the periphery of said second section to elevate soil embedded articles along a circular path to effect the removal thereof from the soil.

1,784,082. EXERCISING DEVICE. ADOLPHUS M. WEBB, Charlotte, N. C., assignor of one-fourth to W. G. Jarrell Machine Company, Charlotte, N. C. Filed Apr. 23, 1928. Serial No. 272,129. 6 Claims. (Cl. 128—33.)



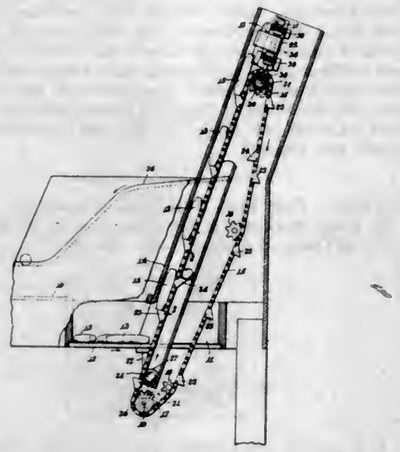
1. An exercising device comprising a framework having resiliently supported thereon a superstructure, a resilient body supporting member carried by the superstructure, a cover for said resilient member, means for fastening the cover to the superstructure, head and foot extensions adapted to be removably secured to the framework, means on the lower side of the superstructure for imparting vibratory motion to the superstructure, and means on the framework for operating said vibrating means.

1,784,083. CASE-FILLING MACHINE. CHARLES H. WILD, Baltimore, Md., assignor to Burt Machine Company, Incorporated, Baltimore, Md., a Corporation of Maryland. Filed Nov. 8, 1927. Serial No. 231,903. 20 Claims. (Cl. 226—15.)



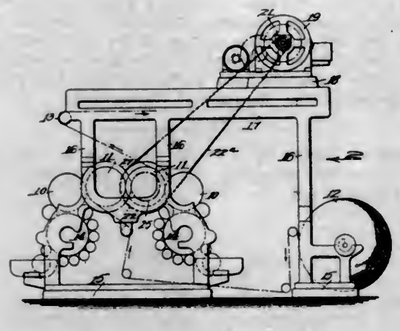
1. In a machine for filling cartons with cans, load forming shelves, a plurality of ways arranged side by side to feed cans to the load forming shelves in a plurality of layers, means for moving the load from the shelves into the cartons and means for preventing the passage of cans to the shelves from the ways feeding a portion of the layers while the cans are being fed into the load forming shelves from the remainder of the ways, whereby the number of layers in the load is varied at predetermined intervals.

1,784,084. PIN MAGAZINE FOR BOWLING ALLEYS. RAYMOND A. WILLIAMS, Arlington, Mass. Filed Apr. 13, 1929. Serial No. 354,949. 16 Claims. (Cl. 273—43.)



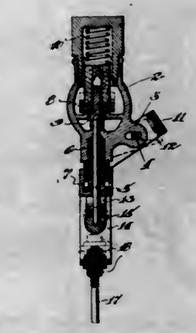
1. In a bowling alley, a pin magazine; an endless pin-supporting belt adapted to move endwise therethrough provided with laterally extending separated projections; a pin conduit beneath and communicating with one end of said magazine; means within said conduit for moving pins upwardly and delivering them to said magazine and means for pushing a pin delivered from said conduit to said magazine, between a pair of said projections, toward the opposite end of the magazine.

1,784,085. MOTOR DRIVE FOR PRINTING PRESSES. HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Jan. 16, 1926, Serial No. 81,761. Renewed Oct. 26, 1929. 5 Claims. (Cl. 101—220.)



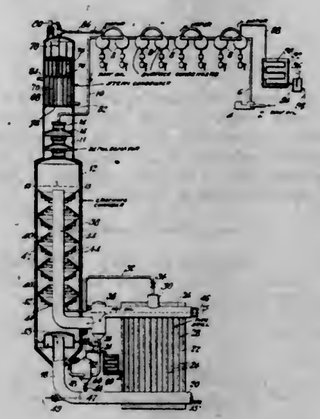
1. In a printing press, the combination of a frame, printing couples supported thereby, said frame extending above the level of the printing couples, an electric motor located on the extension of the frame at a point above the level of the printing couples, and having its shaft parallel with the axles of the printing couples, a sprocket wheel rotated by the motor shaft, a chain connected with said sprocket wheel and means for driving one member of the printing couples directly by said chain.

1,784,086. VALVE-STEM GUIDE. WILLIAM LANING ACKLEY, Dallas, Tex., assignor of fifty-one per cent to Dallas Tailor's Supply Company Incorporated, Dallas, Tex. Filed June 16, 1928. Serial No. 285,926. 7 Claims. (Cl. 251—134.)



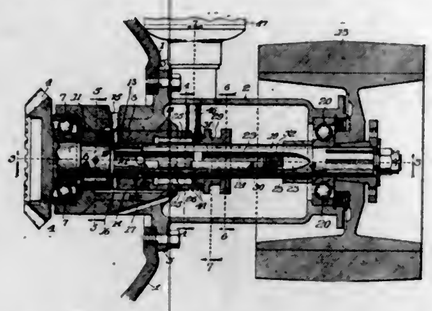
5. A valve stem guide including in combination with a valve, a guide member embracing the end of said stem, a brace member rigid with respect to said guide member and having means for the reception of a valve push rod; said guide and brace members adapted to be moved upward by said push rod to actuate said stem, and means connected to said body for positively holding said members against lateral displacement during said movement to guide said stem.

1,784,087. PROCESS AND APPARATUS FOR THE TREATMENT OF OIL. DAVID G. BRANDT, Westfield, N. J., assignor to Doherty Research Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 31, 1922, Serial No. 532,954. Renewed July 11, 1928. 20 Claims. (Cl. 196—59.)



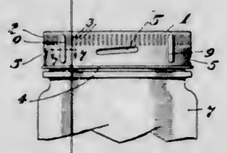
5. The process of producing low boiling point hydrocarbons from high boiling point hydrocarbon oils, which comprises maintaining a body of oil in a cracking zone, passing oil from said zone through a heating zone at a relatively high velocity whereby a portion of said oil is vaporized, passing the unvaporized oil at a relatively low velocity from said heating zone directly into the body of oil in said cracking zone, independently passing the vapors from said heating zone and percolating them through the oil body in said cracking zone.

1,784,088. POWER TAKE-OFF UNIT FOR TRACTORS. LEON JAY CAMPBELL, Buchanan, Mich., assignor, by mesne assignments, to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey. Filed Oct. 4, 1926. Serial No. 139,250. 3 Claims. (Cl. 74—7.)



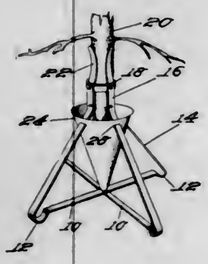
1. The combination with a power driven tractor having a clutch and an operating lever therefor, of a power take-off unit having an outer casing attached to the tractor, driving and driven shafts journaled in the casing, clutch means within the casing for said shafts, a shift lever for said clutch means and extending out of the casing across the tractor lever, and latch means associated with both levers for locking the same together on moving the shift lever into its clutch-release position.

1,784,089. SCREW CAP. HAROLD J. CARR, New York, N. Y., assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y., a Corporation of New York. Filed Mar. 18, 1927. Serial No. 176,308. 7 Claims. (Cl. 215—43.)



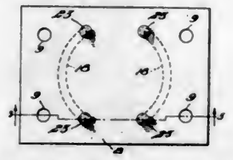
1. As an article of manufacture, a closure cap comprising thread engaging lugs spirally disposed in the skirt thereof, outwardly extending projections intermediate said lugs adapted to be flattened to increase the circumferential size of the cap, thereby to facilitate removal of said cap from a container.

1,784,090. CHRISTMAS-TREE SUPPORT. VICTOR DAHL, Spokane, Wash. Filed May 21, 1926. Serial No. 110,677. 1 Claim. (Cl. 248—38.)



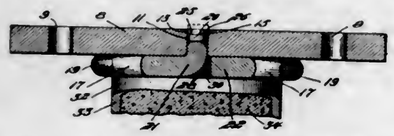
A Christmas-tree support, including in combination, a pair of crossed unitary base and brace elements each element comprising a horizontal portion, and two upwardly extending inwardly inclined portions bent at equal angles to the horizontal portion, of an annular ring locking the upper portions of the brace elements together, a plurality of upwardly extending inwardly concave resilient gripping members mounted on the ring, and curved floor contacting portions formed in said base and brace elements, and means for maintaining the lower end of the tree trunk in position directly beneath the center of action of said resilient gripping elements, said means comprising a combination conical water container and tree butt support, the upper ends of the brace elements passing through slots adjacent the upper rim of said combination container and support.

1,784,091. CAP FOR BUILDING COLUMNS. GEORGE H. DEAN, Norwood, R. I. Filed June 29, 1929. Serial No. 374,885. 2 Claims. (Cl. 189—42.)



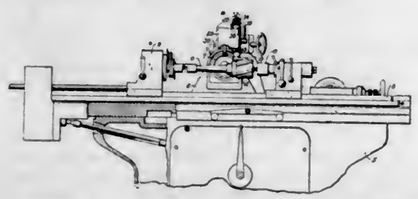
1. A column cap comprising a crown plate adapted to rest upon a column and provided with a plurality of annularly disposed openings and with annular recesses in the upper ends of the openings, and retaining members including horizontally disposed segments abutting against the bottom of the plate adapted to engage the column, posts upon the ends of the plates registering in the openings, and heads upon the posts seated in the recesses.

1,784,092. CAP FOR BUILDING COLUMNS. GEORGE H. DEAN, Norwood, R. I. Filed Oct. 11, 1929. Serial No. 398,845. 1 Claim. (Cl. 189—42.)



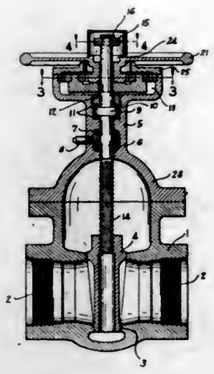
A column cap comprising a crown plate adapted to rest upon a column and provided with a plurality of openings, retaining members including horizontal segments annularly disposed upon the bottom of the plate with their ends spaced from each other, posts upon corresponding ends of the segments fixed in the openings, and welds in the spaces between the ends of the segments.

1,784,093. SETTING GAUGE. GERARD A. DE VLIEG, Rockford, Ill. Filed Nov. 17, 1926. Serial No. 148,971. 6 Claims. (Cl. 33—170.)



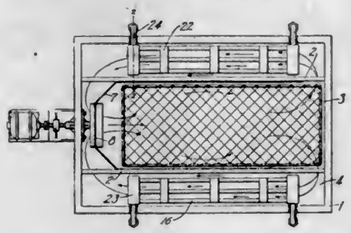
6. A setting gauge having, in combination, a support, a member adjustably mounted in said support, a setting finger adjustably mounted in said member, said finger having a setting point, and spring actuated means for yieldingly holding the said finger selectively in different predetermined positions of adjustment.

1,784,094. VALVE-OPERATING MEANS. HAROLD W. FLETCHER, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a Corporation of Texas. Filed Apr. 6, 1928. Serial No. 267,891. 10 Claims. (Cl. 251—54.)



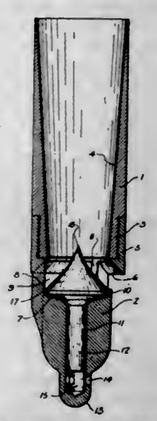
1. In a device of the character described, the combination of a rotatable stem, a housing for said stem, and means to rotate said stem at different speeds, said rotating means including a handle slidable and rotatable on said stem, means operative when said handle is in one position, to engage said handle nonrotatably with said stem, a spider fixed to said stem, a speed reduction gearing associated with said spider, and means on said handle adapted, when in a different position, to engage said spider through said speed reduction gearing for the purpose described.

1,784,095. QUENCHING TANK. HAROLD W. FLETCHER, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a Corporation of Texas. Filed May 15, 1928. Serial No. 277,818. 4 Claims. (Cl. 257—85.)



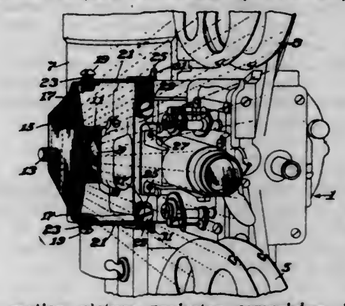
1. A quenching device including a container, having a central chamber therein, a basket in said chamber, cooling compartments one at each side of said chamber, cells in said compartments through which a cooling liquid may be circulated, and means to cause a circulation of the liquid in said chamber in continuous currents through said compartments and back into said chamber.

1,784,096. FLUID-OPERATED SWAB. HAROLD W. FLETCHER, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a Corporation of Texas. Filed July 23, 1929. Serial No. 380,349. 5 Claims. (Cl. 103—52.)



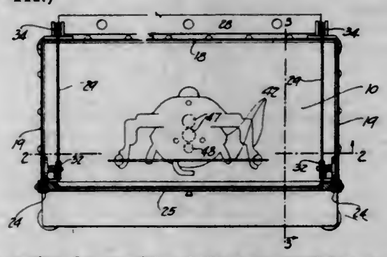
1. A swab construction including a cylindrical body, a head of smaller diameter than said body, said head including a ring having a valve seat on its lower side, a valve below said seat, a stem on said valve, and means to deflect the flow of fluid away from said stem and said valve.

1,784,097. MOTION-PICTURE PROJECTOR. ARTHUR C. HAYDEN, Brockton, Mass. Filed June 11, 1928. Serial No. 284,291. 8 Claims. (Cl. 88—24.)



1. A motion picture projector comprising, in combination, an electric lamp, a condenser lens, a slide for the lens, and a reflector connected to the slide for deflecting light emerging from the lamp and through the condenser lens when the slide and reflector are pulled outwardly partially to expose the lens externally of the projector.

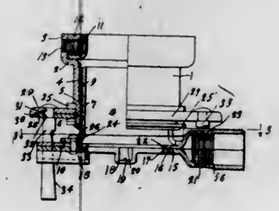
1,784,098. CASING FOR PRECISION BALANCES. WILFRID HEUSSER, Salt Lake City, Utah. Filed Apr. 10, 1928. Serial No. 269,011. 7 Claims. (Cl. 312—141.)



1. A casing for precision balances comprising a metal base having a back flange and side flanges, a superstruc-

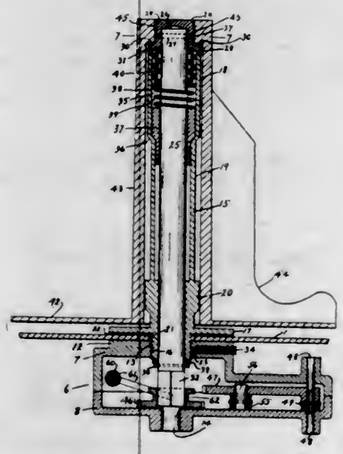
ture having a sheet metal back wall and opposing side walls integral with said back wall, said side walls respectively, lying wholly in the planes of said side flanges, door guides on the inside of the respective sides, door guides composed of metal channels having the backs thereof lying substantially in the respective planes, reinforcing members on the outside of the respective side walls and opposite the respective metal channels, means for fastening the respective metal channels, side walls and reinforcing members to one another, said reinforcing members extending alongside the respective base side flanges, and fastening members extending through the respective base side flanges, side walls and reinforcing members.

1,784,099. DIESTOCK. RALPH E. HYDE, Cleveland, Ohio, assignor to The Oster Mfg. Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 12, 1928. Serial No. 261,014. 4 Claims. (Cl. 10—120.5.)



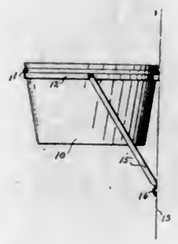
2. In a device of the class described, a tubular element, a second tubular element threadedly telescoped in said first tubular element and projecting therefrom, a flange on the projecting end of said second tubular element, a composite element secured to said flange and comprising a plate and a second plate, means on said second plate forming a guideway for a die, and means on said first plate cooperating with means on said second plate to form a substantially cylindrical socket projecting from the periphery of said composite member.

1,784,100. LIQUID SEAL. CHARLES THOMAS KEMP and NORMAN EDWARD RYCKMAN, Hamilton, Ontario, Canada, assignors to The Coffield Washer Company of Canada Limited, Hamilton, Ontario, Canada. Filed May 3, 1926. Serial No. 106,489. 1 Claim. (Cl. 286—7.)



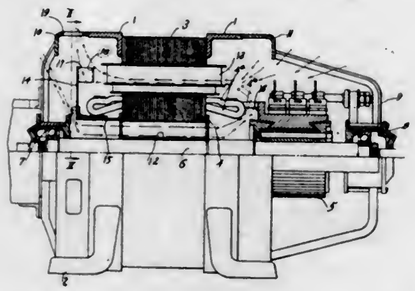
In a liquid seal of the character described, the combination with an upwardly extending sleeve and a shaft journalled therein, of a spiral gland packing wrapped around the shaft interiorly of the sleeve, a head secured to the upper end of the shaft and having its lower face resting upon the top of the sleeve in contact with the upper end of the spiral packing, a gland member surrounding the shaft underneath the packing and held against downward movement by the sleeve, and a spiral spring surrounding the shaft interposed between the gland member and the lower face of the packing.

1,784,101. SANITARY POULTRY NEST. FREDERICK LAGE, Gladbrook, Iowa. Filed Jan. 3, 1928. Serial No. 244,102. 2 Claims. (Cl. 119—45.)



1. In a device of the class described, a receiving ring having a straight portion in its length designed to make contact with a supporting surface, arms secured at one of their ends to said ring and designed to have their other ends secured to a supporting surface, a container open at its top capable of being placed in said ring, and a peripheral bead formed on said container for preventing the same from passing completely through said ring.

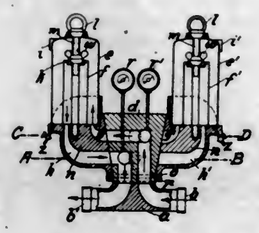
1,784,102. DYNAMO-ELECTRIC MACHINE. JAMES F. LINCOLN, East Cleveland, and ERWIN E. DREESE, Euclid, Ohio, assignors to The Lincoln Electric Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 20, 1927. Serial No. 207,072. 4 Claims. (Cl. 171—252.)



1. In apparatus of the character described, a frame; a stationary member having windings, in said frame; a rotatable member having windings, within said stationary member; air-passways axially arranged in both said members; an air inlet at the relatively cooler end of the machine to provide air to the passways of the rotatable member; means at the other end thereof for drawing the air through such passways; an air inlet for the stationary member passways above said means; means at the other end of the stationary member air-passways for drawing air therethrough; and an outlet beyond said last-named means.

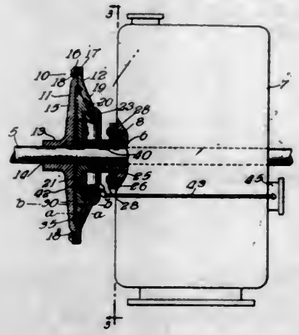
CARNEGIE LIBRARY OF ATLANTA

1,784,103. EXCHANGEABLE FILTER, MORE PARTICULARLY FOR ARTIFICIAL-SILK-SPINNING MACHINES. WALDEMAR ZUR LÖWEN, Barmen-Rittershausen, Germany, assignor, by mesne assignments, to American Bemberg Corporation, a Corporation of Delaware. Filed Nov. 27, 1925, Serial No. 71,663, and in Germany Jan. 15, 1925. 6 Claims. (Cl. 210—168.)



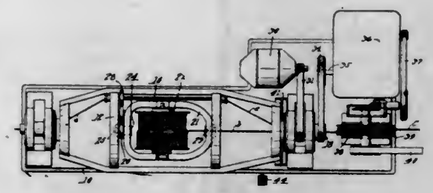
1. An exchangeable filter for machines for the spinning of artificial silk comprising a plurality of individual filters, a rotatable member on which said filters are carried, a fixed base on which said rotatable member is mounted, said fixed base having a part in the form of a cock plug with a double branched inlet and a triply branched outlet, said rotatable member being provided with inlets and outlets arranged diametrically opposite to one another and capable of being connected to the inlets and outlets of said fixed member, said individual filters having individual outlets arranged to be opened for the discharge of backwardly flowing liquid during the cleaning of the filter.

1,784,104. LEAK-PREVENTING SEAL. MECKLEY MASTERSON and ORVILLE MARKEL, Chicago, Ill. Filed Feb. 23, 1926. Serial No. 90,000. 1 Claim. (Cl. 286—9.)



In combination, a housing having a recess, a horizontal rotatable shaft extending therefrom, a sleeve surrounding the shaft, said sleeve having a radial flange attached to the housing and a hub extending into said recess, a disc projecting radially from the sleeve, and a casing mounted upon said shaft and peripherally surrounding said disc, said casing being adapted to hold a liquid seal and permit disposal of same in an annular ring about the interior of said casing and about the periphery of the disc upon rotation of the shaft, together with means for automatically returning leakage from the housing into the radial space back to the housing.

1,784,105. WIRE-STRANDING MACHINE. MICHEL NIGRO, Worcester, and WILLIAM H. BLOUNT, West Brookfield, Mass., assignors to Sleeper & Hartley, Inc., Worcester, Mass., a Corporation of Massachusetts. Filed Apr. 7, 1927. Serial No. 181,864. 5 Claims. (Cl. 117—18.)

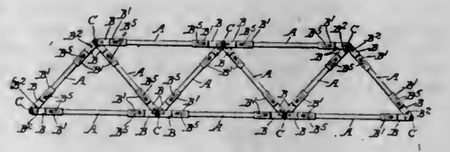


1. In a wire cable machine, the combination with a rotary flier and a non-rotatable frame carried thereby at the center thereof, a spool of wire supported by said frame, and means for guiding the wire from said spool centrally through the end of the flier, of a guide for another wire carried by the flier at a distance from the axis thereof beyond said spool, means for preventing the guide from rotating on its own axis as it revolves with the flier, and means for guiding the wires from the spool and guide to a point substantially in line with the axis of the flier without twisting either wire, said flier constituting means for then twisting them together.

1,784,106. COATING ZINC AND CADMIUM. ALADAR PACZ, East Cleveland, Ohio. Filed May 28, 1927. Serial No. 195,140. 5 Claims. (Cl. 148—6.)

5. A non-alkaline dipping solution for zinc and cadmium articles containing a soluble molybdate and a second soluble salt, such second salt being one which is not alkaline and does not precipitate molybdenum.

1,784,107. DEMOUNTABLE STRUCTURE. LESLIE M. PARKER, Evanston, Ill. Filed July 5, 1928. Serial No. 290,489. 7 Claims. (Cl. 189—34.)

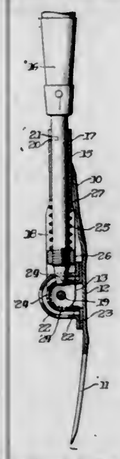


1. In combination a composite building member formed of a longitudinal member having notches adjacent its ends and a pair of union members provided with hollow portions adapted to receive an end of said longitudinal member, said union member having an engaging element adapted, in one relative rotational position to be fitted into one of said notches.

1,784,108. GARDEN TOOL. ALFRED PEARSON, Rockford, Ill., assignor of one-half to Frank A. Freed, Rockford, Ill. Filed July 18, 1928. Serial No. 293,754. 5 Claims. (Cl. 306—13.)

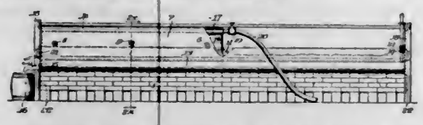
1. An implement comprising, in combination, a tool having spaced ears intermediate its ends and substantially parallel to its axis, a handle, a sleeve reciprocable on said handle, one end of said sleeve being split to form a yoke, a pin pivotally securing said yoke to said ears, a shoulder on said sleeve, a nut on said handle, a compression spring

on said handle between said yoke and nut to urge said handle toward said tool, two spaced concentric straps on said implement axially coincident with said ears, said



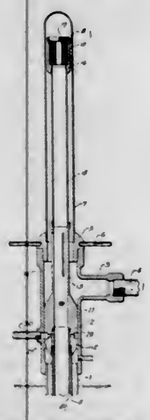
straps having radially alined holes to receive the end of said handle to lock said tool in angular relation to said handle.

1,784,109. CHEMICAL FURNACE. FREDERICK L. PRESTON, Mobile, Ala. Filed July 7, 1928. Serial No. 291,108. 7 Claims. (Cl. 263—37.)



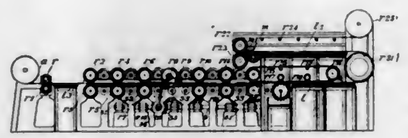
1. A furnace of substantially the character described, comprising two hearth units arranged end to end, a common heating chamber extending beneath both of said hearth units, and a hood adapted to form, with a unit, a heating chamber; said hood being shiftable endwise of the furnace to bring it into coacting relation with either unit of the hearth.

1,784,110. BUFFER FOR WELL SWABS. NORMAN H. RICKER, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a Corporation of Texas. Filed Aug. 24, 1929. Serial No. 388,189. 7 Claims. (Cl. 103—52.)



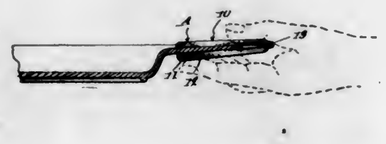
1. In a pneumatic swab structure, an eduction tube, a plunger therein, a downwardly opening valve in said plunger, a nipple at the upper end of said eduction tube, there being lateral liquid discharge openings adjacent the lower end of said nipple, means to allow the introduction of pressure fluid below said plunger, and means in said nipple to be engaged by said plunger and absorb the force of its upward movement.

1,784,111. METHOD OF AND MACHINE FOR MANUFACTURING MATCHES AND MATCH TAPE. JOHN RINNE, Rutledge, Pa. Filed Mar. 11, 1925. Serial No. 14,722. 32 Claims. (Cl. 144—51.)



1. In the machine for manufacturing match tape, in combination, means for heating the sheet of material; means for impregnating the sheet across the whole width; means for punching crosswise rows of rectangular holes in the blank sheet for providing room for match heads; means for cutting slots for partial separation of the splints; means for compressing the tips of the splints and forming lengthwise corrugations on the same; means for bending the loose splint ends for dipping; means for dipping the match tips in the chemicals; means for drying the heads; means for straightening back the bent ends; means for pressing them back in the match sheet; means for cutting the match sheet in tapes; means for separating the tapes; means for cutting all tapes crosswise simultaneously; means for fastening the tape ends on reels; means for reeling the match tapes on final reels to be put in containers.

1,784,112. PLATE HOLDER. MAX G. ROSANO, Chicago, Ill. Filed Nov. 6, 1929. Serial No. 405,189. 3 Claims. (Cl. 294—28.)

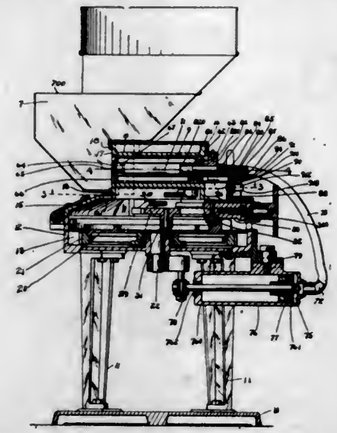


1. A hot plate carrier and holder comprising a pair of companion pivotally connected sections, spring means normally urging the sections to an open position, a clasp for holding the sections against swinging movement, and gripping pads carried by the inner faces of said sections.

1,784,113. PROCESS AND APPARATUS FOR DIVIDING PLASTICS. SIGMUND SCHIFF, Cincinnati, Ohio, assignor to The J. H. Day Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 21, 1923, Serial No. 626,552. Renewed Jan. 9, 1930. 25 Claims. (Cl. 107—15.)

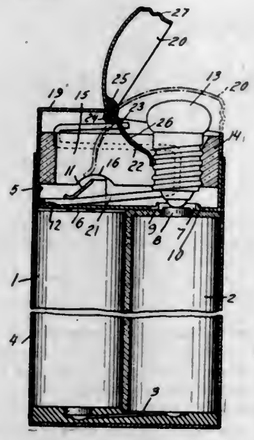
1. In a device of the class described the combination of a hopper, a cylinder, a plunger within the cylinder, means for effecting relative movement of the hopper and the cylinder whereby to move the plunger into and from registration with the hopper, means to actuate the plunger

for creating a chamber in the cylinder for receiving a plastic from the hopper and for moving the plunger toward



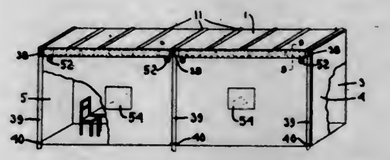
the hopper while the chamber is in communication with the hopper whereby to move a portion only of the plastic from the chamber into the hopper.

1,784,114. BATTERY HAND LAMP. WALTER B. SCHULTE, Madison, Wis., assignor to Burgess Battery Company, Madison, Wis., a Corporation of Wisconsin. Filed June 19, 1928. Serial No. 286,501. 11 Claims. (Cl. 240—10.5.)



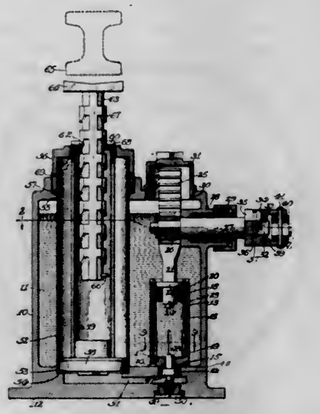
1. A battery hand lamp comprising a carton, a dry cell battery arranged therein, said carton extending above the top of said battery, a cup arranged in the upper part of said carton, said cup being electrically connected to one pole of said battery and having an opening for exposing the other pole and being insulated from said second pole, a holder fitting into said cup, said holder comprising an insulating member, a cap fitting over said insulating member, a looped spring wire squeezed between said insulating member and said cap, said insulating member having a longitudinal slot and a recess at the end opposite said opening in said cup, an incandescent bulb removably mounted in one end of said longitudinal slot and arranged to make contact with said exposed pole, and a cover hinged to said cap, said cover having notched cams and an extension at its hinged end, said spring wire being adapted to maintain said holder firmly in position within said cup, to press firmly upon the bottom of said metallic cup and to have its free ends cooperate with said notched cams to maintain electrical connection between said hinged cover and said cup and to exert spring pressure upon said cams, to cause said cover to assume the open and closed positions with a snap, said extensions being provided with a channel and being adapted to make and break contact with said bulb when said cover is in the open and closed positions respectively.

1,784,115. COMBINED AUTOMOBILE COVER AND TENT. HARRY SEBELL, Boston, Mass. Filed May 10, 1929. Serial No. 361,953. 9 Claims. (Cl. 135—1.)



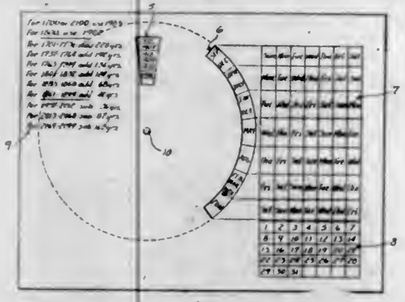
1. A combined automobile cover and tent comprising a top section which is non-foldable longitudinally, side sections secured to the top section and adapted to depend therefrom, and means associated with the side sections adjacent the line of attachment thereof to the top section to retain the top section rigid in a longitudinal direction.

1,784,116. HYDRAULIC JACK. JOSEPH P. SHEVLIN, Chicago, Ill., assignor, by mesne assignments, to George Frederick A. Mayle, London, England. Filed Mar. 12, 1928. Serial No. 260,949. 6 Claims. (Cl. 138—9.)



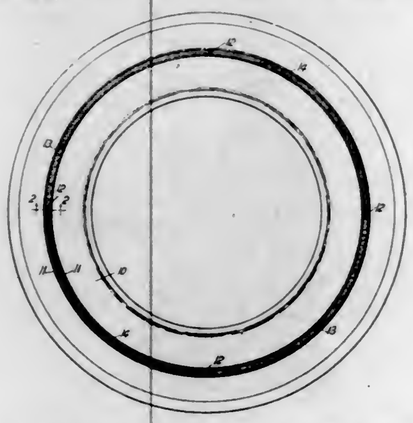
1. In a device of the character set forth, the combination with a casing having a lifting cylinder and piston, of a pump for supplying fluid thereto, said pump comprising a cylinder mounted in the casing and having a bottom therein, an inlet opening through the bottom, a ball check valve in said opening, a sleeve mounted in the cylinder and having slots extending upwardly from the bottom thereof, an outlet valve in the bottom of the cylinder, a piston mounted in said sleeve, a piston rod having a rack thereon, a shaft mounted transversely of the rack and having a bearing in the casing, a pinion on said shaft engaging with said rack, and a handle for turning said shaft, the arrangement being such that when the handle is turned through a predetermined arc the pump will operate and when the handle is turned through a greater arc the piston rod will engage with the outlet valve and permit fluid to pass back through the outlet valve under the piston and from thence through the slots and over the top of the piston.

1,784,117. PERPETUAL CALENDAR. WILLIAM JAMES SIDIS, New York, N. Y. Original application filed Dec. 15, 1927, Serial No. 240,214. Divided and this application filed June 13, 1929. Serial No. 370,713. 1 Claim. (Cl. 40—113.)



The combination, in a perpetual calendar, of a disk containing the months properly grouped in sectors and the years occupying sectors of the same disk in a concentric ring; a front sheet with two slots making visible respectively the month-sectors and a year-sector, and containing week-days in seven rows and seven columns, and date-numbers occupying a continuation of those seven columns; with a pivot by means of which the disk may be rotated at will with reference to the front sheet.

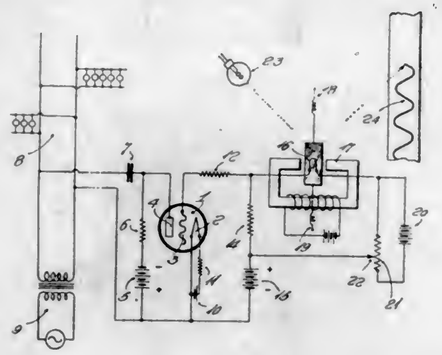
1,784,118. TIRE AND METHOD FOR MARKING THE SAME. VERNON L. SMITHERS, Akron, Ohio. Filed Sept. 21, 1928. Serial No. 307,523. 3 Claims. (Cl. 41—26.)



1. A tire construction formed with spaced, circumferential ribs on the side walls of the tire to define a flat circumferential band and also formed with radial webs of a height equal to said ribs across said band dividing it into a plurality of arcuate sections, said band having rubber cements of contrasting colors applied thereto in the arcuate sections, said webs preventing running of the cements together at the ends of the sections when they are applied and also distinctly demarking the arcuate sections.

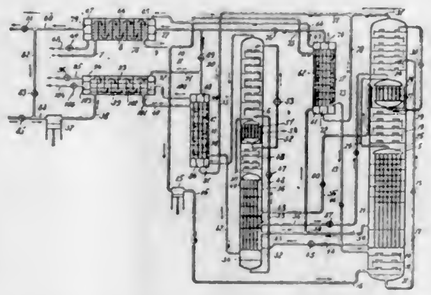
1,784,119. OSCILLOGRAPH. FREDERICK E. TERMAN, Stanford University, Calif., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed Nov. 19, 1929. Serial No. 408,390. 5 Claims. (Cl. 171—95.)

3. An electrical indicating system comprising, a source of fluctuating voltage, an electron discharge device including plate, grid and cathode, an input circuit included between said plate and cathode and capacitively coupled



to said source of fluctuating voltage, an output circuit included between said grid and said cathode, and an electrical indicating device connected in said output circuit.

1,784,120. SEPARATION OF THE CONSTITUENTS OF GASEOUS MIXTURES. CLAUDE C. VAN NUYS, Cranford, and JOSEPH L. SCHLITT, Elizabeth, N. J., assignors to Air Reduction Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 23, 1926. Serial No. 143,594. 15 Claims. (Cl. 183—115.)

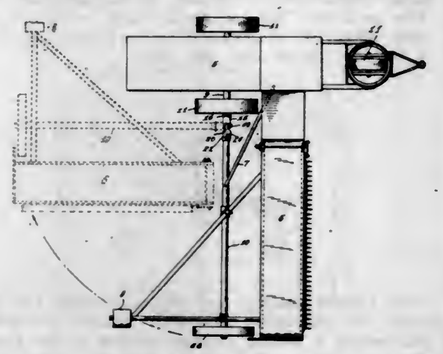


1. A method of separating the constituents of gaseous mixtures, which comprises subjecting a liquid containing the constituents of the gaseous mixture to a primary rectification to form a liquid consisting of one of the constituents in substantial purity, subjecting a gaseous mixture containing the constituents of the original mixture and including the effluent from the primary rectification to liquefaction and an auxiliary rectification to separate another constituent as a gas in substantial purity and delivering the impure liquid product of the auxiliary rectification to the primary rectification at a point where the liquid flowing downwardly therein has a composition corresponding substantially to that of the liquid produced in the auxiliary rectification.

1,784,121. COMBINATION HARVESTER THRASHER. JAMES A. WALSH, Indianapolis, Ind., assignor to J. I. Case Company, Racine, Wis., a Corporation. Filed Feb. 17, 1925. Serial No. 9,898. 2 Claims. (Cl. 287—92.)

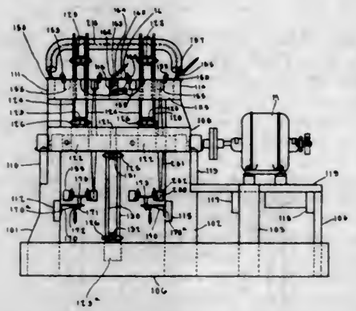
2. A connection for a machine embodying a combined harvester and thrasher said harvester having a horizontal supporting axle embodying a flange, a hinge member comprising a collar having a flange swivelingly connected to said axle flange, a flange on the thrasher, a hinge member

comprising a collar having a flange swivelingly connected to the thrasher flange, means connecting said hinge members whereby they may together rotate in said axle and



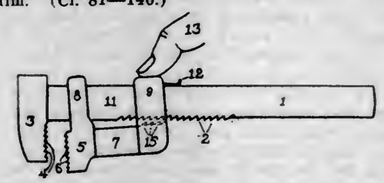
thrasher flanges, and means for securing the hinge members in non-rotatable relation to the axle and thrasher flanges.

1,784,122. RECTIFYING SWITCH. JULIUS B. WANTZ, Oak Park, Ill. Filed Sept. 4, 1925. Serial No. 54,461. 5 Claims. (Cl. 175—364.)



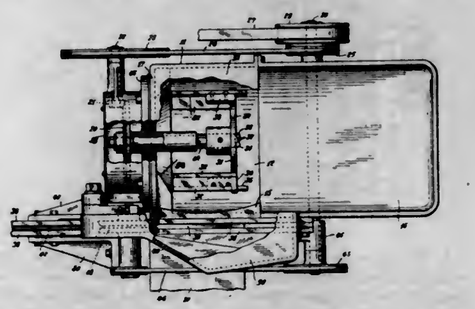
2. In a rectifying switch having a frame, and a plurality of stationary connectors on said frame, insulatory means comprising a plurality of cross members of non-conducting sheet material for supporting said connectors upon said frame, each of said cross members being secured to said frame by fasteners of conductive material and being apertured a greater portion of its width and serrated adjacent such aperture to a depth greater than the width of material remaining about such aperture to prevent said conducting material parts and said connectors from having an unbroken straight line of insulating material therebetween.

1,784,123. WRENCH. ERNST A. G. WERNER, Brooklyn, N. Y. Filed Nov. 4, 1929. Serial No. 404,662. 1 Claim. (Cl. 81—146.)



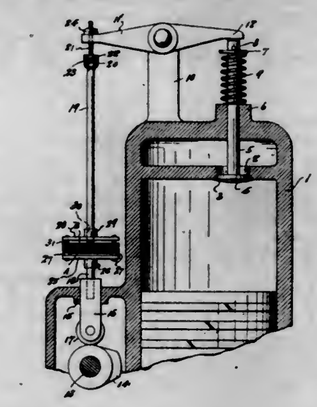
In a wrench having a wrench shank terminating at one end in a handle and at the other end in a rigid jaw, the combination with a plurality of teeth upon said shank intermediate the ends thereof and a shiftable jaw having a jaw frame, a yoke upon said shiftable jaw enveloping said shank loosely so that said jaw may normally hang down out of contact with said shank, a second yoke spaced from said first yoke upon said jaw frame and also loosely engaging said shank, one or more teeth secured upon said jaw frame for engaging said shank teeth and an eccentric spring associated with said second yoke and arranged to project rearwardly from said second yoke toward the handle of the wrench so as to provide solely an eccentric lift and forward urge to said second yoke and thereby to said shiftable jaw.

1,784,124. HOPPER MECHANISM. RICHARD LESTER WILCOX, Waterbury, Conn., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a Corporation of Connecticut. Filed Dec. 9, 1927. Serial No. 238,963. 9 Claims. (Cl. 10—169.)



1. A hopper having a receptacle to receive blanks or the like in an indiscriminate mass; means for segregating some of the blanks from the mass and carrying them along the inside face of the receptacle to a delivery point, comprising a rotor member having a rotor head and a plurality of arms connected therewith at substantially a right angle thereto, some of said arms projecting on both sides of the rotor head and other of the arms projecting upon only one side thereof.

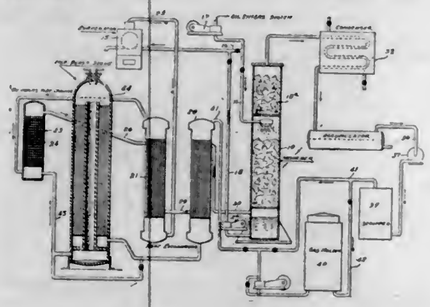
1,784,125. POPPET-VALVE-ACTUATION MEANS. ROBERT EZEKIEL WILSON and ROBERT EUGENE WILSON, Belleville, N. J. Filed May 29, 1929. Serial No. 366,835. 2 Claims. (Cl. 267—1.)



1. A counter-balancing spring structure for the valve mechanism of internal combustion engines, comprising a thrust plate having transverse abutments, a thrust rod guide plate, means for connecting said guide plate in spaced relation to said thrust plate, a rectangular lami-

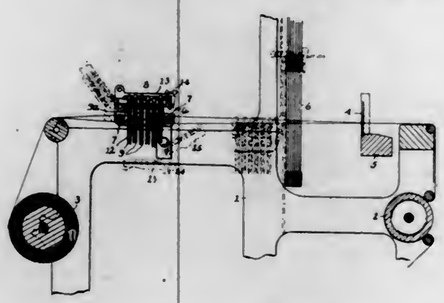
nated spring means supported at its ends on said abutments of said thrust plate and intermediate the latter and said guide plate, a thrust rod slidable through said guide plate to bear on an intermediate joint of said spring means whereby under thrust the latter may flex toward said thrust plate.

1,784,126. PROCESS OF CRACKING HYDROCARBONS. EDWIN W. BEARDSLEY and MYRON W. COLONY, Texas City, Tex., assignors to Petroleum Conversion Corporation, New York, N. Y., a Corporation of Delaware. Filed June 28, 1927. Serial No. 201,981. 4 Claims. (Cl. 196—66.)



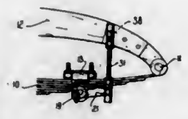
1. The process of converting hydrocarbon oils into compounds of lower molecular weight which consists in storing heat in a carrier gas, introducing the thus heated gas into a reaction chamber there to mingle with the vapor of the product to be converted, passing the products of the conversion reaction from the reaction chamber through heat exchange means, separately vaporizing the incoming hydrocarbon material and passing the produced vapor in heat exchange relation with said products of reaction in said heat exchange means and thence into the reaction chamber, passing the heat carrier gas entering the cycle into heat exchange relationship with said products in further heat exchange means, thence to a gas heating device and thence to said reaction chamber and subjecting the products of the reaction to condensing conditions.

1,784,127. MEANS FOR REMOVING THE HARNESS AND STOPPING INSTRUMENTALITIES FROM A LOOM. JOHN HENRY BECKER, Richmond Hill, N. Y., assignor to Warp Twisting-In Machine Company, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 17, 1928. Serial No. 262,408. 11 Claims. (Cl. 28—41.)



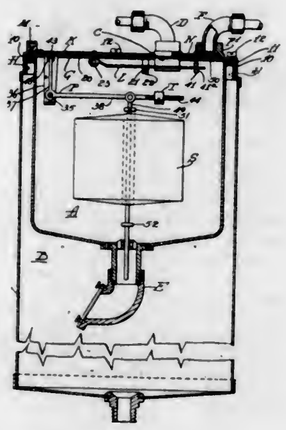
1. Means to remove from a loom the stop-motion fallers and the bar carrying them and also the harness and contained warp including separate sections, one for supporting said bar and the other for supporting the harness, said sections having means to connect them as a unit so that either may serve as the carrying member for the other.

1,784,128. SHOCK REDUCER FOR VEHICLES PROVIDED WITH LEAF SPRINGS. HENRICUS FRANCISCUS JOZEF BERNAERTS, Zeist, Netherlands, assignor to Naamlooze Vennootschap Technisch- en Handelsbureau van Vliet en Zonen, Bussum, Netherlands. Filed Oct. 23, 1928, Serial No. 314,342, and in the Netherlands Aug. 3, 1928. 5 Claims. (Cl. 267—53.)



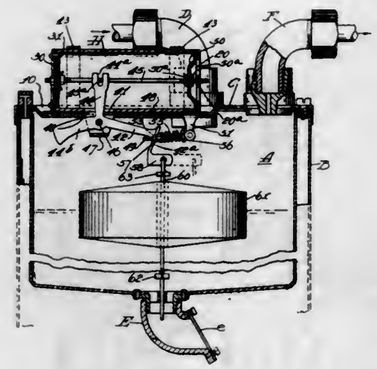
1. In a shock absorber for vehicles provided with leaf springs, the combination of a strap adapted to embrace a leaf spring, a locking member pivoted to the shanks of the strap and provided with an eccentric portion intermediate between the shanks, said eccentric portion being adapted to engage said spring, two set screws in said strap positioned on each side of a vertical plane through the axis of said locking member and engaging one side of said leaf spring, a crank connected to the locking member, and means for operatively coupling the free end of the crank with the sprung part of the vehicle.

1,784,129. VACUUM TANK. CHARLES S. BURTON, Oak Park, Ill. Filed Feb. 16, 1929. Serial No. 340,352. 14 Claims. (Cl. 103—236.)



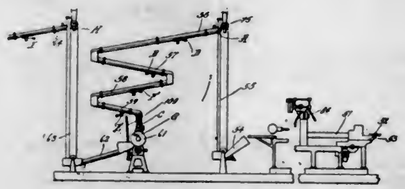
1. A construction for lifting liquid by suction, comprising a vacuum chamber having a suction connection, a liquid inflow connection, an atmosphere inlet port and a liquid discharge port, a valve controlling the atmosphere inlet port arranged for suction action thereon holding it against its seat, a limited portion of the chamber wall being inwardly and outwardly movable without opening the wall, operating connections between the valve and said movable wall part arranged for opposing the suction action on the latter to the suction action on the valve; a float in the chamber and connections from the float to said operating connections adapted to move the valve in opening direction upon the float being lifted by the rise of the liquid in the chamber to a predetermined high level, and to move the valve in closing direction upon the subsidence of the liquid to a predetermined low level.

1,784,130. VACUUM TANK. CHARLES S. BURTON, Oak Park, Ill. Filed Feb. 21, 1929. Serial No. 341,586. 7 Claims. (Cl. 103—236.)



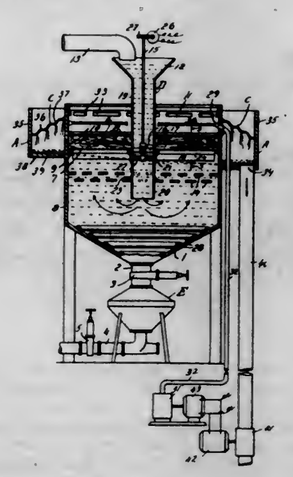
1. In a construction for the purpose indicated, a casing enclosing a chamber having connection with a source of suction for producing partial vacuum in the chamber, said chamber having a liquid inlet, a liquid outlet and an atmosphere inlet; a valve controlling the atmosphere inlet; a limited part of the enclosing wall exteriorly exposed to atmosphere being inwardly and outwardly movable without opening the wall; operating connections between said movable part of the wall and the atmosphere inlet valve arranged for opposing to each other respectively the actions due to vacuum in the chamber, said connections being dimensioned and arranged for substantially balancing said actions against each other; means operated by change of level of the liquid content of the chamber for operating said connections for opening and closing the valve, and a snap action interposed between said liquid level-operated means and said operating and balancing connections between the valve and the movable wall aranged to exert force in opposition to one of said counter-balanced actions by its snap caused by the high liquid level and in opposition to the other of said counterbalanced actions by its snap caused by the low liquid level.

1,784,131. CAN-MAKING MACHINERY AND APPARATUS. WALTER K. CABOT, Montclair, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 2, 1927, Serial No. 230,442. Renewed Mar. 3, 1930. 13 Claims. (Cl. 113—7.)



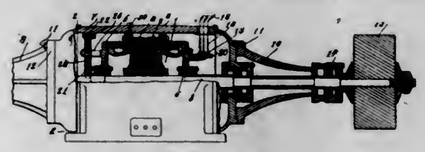
1. The combination of a machine for performing an operation upon a can body and the like, means delivering can bodies from said machine after operation thereupon and an electric control causing interruption of the operation of said machine upon creation of a predetermined condition in said delivery means and causing also interruption of both said machine and said delivery means upon creation of another predetermined condition in said delivery means.

1,784,132. FILTRATION SYSTEM. CHARLES T. CABRERA, New York, N. Y., assignor to Electro Dialyzer Corporation, New York, N. Y., a Corporation of New York. Filed July 9, 1928. Serial No. 291,237. 11 Claims. (Cl. 210—7.)



1. In a device for treating solid laden liquids, a container, a filter bed extending across said container, means for introducing a solid laden liquid to said container below said filter bed, a trough surrounding said container for receiving filtered liquid therefrom, and means in said trough for agitating and aerating the filtered liquid.

1,784,133. ELECTRIC DRIVE FOR GRINDER WHEELS. ALONZO G. DECKER, Baltimore County, Md., assignor to Marschke Manufacturing Company, Indianapolis, Ind., a Corporation of Indiana. Filed Dec. 14, 1927. Serial No. 240,068. 5 Claims. (Cl. 172—36.)

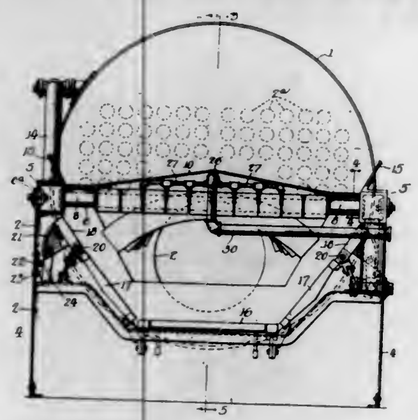


1. An electric drive for a grinding or buffing machine comprising a main shaft, an alternating current induction motor having a rotor secured to the shaft, a field member mounted to rotate about the axis of the shaft, planetary gearing for rotating the field member comprising a gear secured to the shaft, an internal ring gear non-rotatively mounted and an intermediate gear mounted on the field member and meshing with both the shaft gear and the ring gear.

1,784,134. STEAM-GENERATING FURNACE. THOMAS F. DOWNEY and JAMES DONALD, Chicago, Ill. Filed May 5, 1928. Serial No. 275,495. 6 Claims. (Cl. 122—190.)

1. A steam-generating furnace comprising a grate, and a tile-protected water-wall over the grate comprising a series of spaced parallel water tubes extending transversely of the furnace, a header at each side of the furnace connected to said tubes, there being fuel feed openings between said tubes adjacent to said headers, a series of

members for each of said series of fuel feed openings, each of said members comprising a semi-cylindrical shield for one of said tubes and flanges at one end of the shield, said

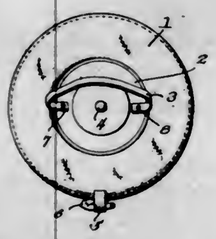


flanges forming a substantially continuous series adjacent to and parallel with one of said headers, and tiles enclosing that portion of each tube which extend between the said series of flanges.

1,784,135. FLOOR COVERING. CARLETON ELLIS, Montclair, N. J., assignor to Ellis-Foster Company, a Corporation of New Jersey. Filed Feb. 26, 1927, Serial No. 171,380. Renewed Feb. 8, 1930. 10 Claims. (Cl. 91—68.)

1. A floor covering in transportable form comprising a roll of saturated felt web carrying in a state of extension an adherent tread veneer containing nitrocellulose, a glyceride resin, and a finely-divided fire-retarding mineral substance.

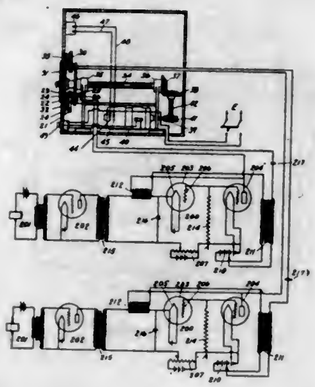
1,784,136. BUOY-INFLATED SWIMMING PADDLE. MARTIN F. ENKE, Oakland, Calif. Filed May 22, 1928. Serial No. 279,828. 5 Claims. (Cl. 9—21.)



1. The combination of a circular inflated device to be placed on the hand to aid in swimming and floating, said device having for its body an outer casing of fabric, a slot in the center to insert an inner tube of rubber to be inflated substantially as set forth.

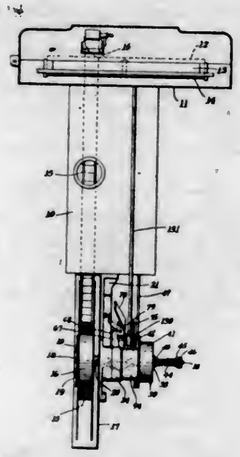
1,784,137. SUBMARINE SIGNALING. RICHARD DUDLEY FAY, Cambridge, and HERBERT GROVE DORSEY, Gloucester, Mass., assignors to Submarine Signal Corporation, Boston, Mass., a Corporation of Delaware. Filed May 21, 1925. Serial No. 31,873. 13 Claims. (Cl. 177—386.)

1. An apparatus for determining the direction of a source of sound comprising spaced receivers responsive to said sound, visual indicators, means for operating said visual indicators by the action of said receivers, each receiver being associated with a different indicator, a rotating disc, said indicators mounted upon said rotating



disc, a dial concentric with said rotating disc, means for adjusting the dial to measure the angle between the indications of said rotating indicators whereby the direction may be determined.

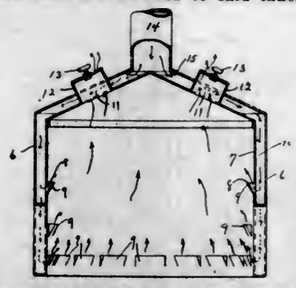
1,784,138. MOTION-PICTURE-PROJECTING APPARATUS. CHRISTIAN M. GOTTSCHAU, Columbus, Ohio, assignor to Picture Machine Service Corporation, a Corporation of Colorado. Filed June 13, 1924. Serial No. 719,724. 73 Claims. (Cl. 88—17.)



6. Apparatus of the type described comprising a reel, a running drive for said reel adapted to slip under a predetermined resistance, and a starting drive more positive than said running drive, and independent thereof for overcoming the inertia of said reel and connected parts.

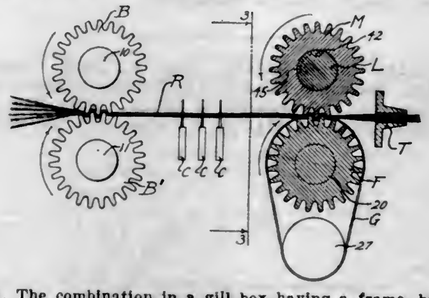
1,784,139. HAIR-DRYING HOOD. WALTER A. GUNTER and CHARLES F. GRIESSER, Baltimore, Md., assignors to Eugene Ltd., a Corporation of New York. Filed June 12, 1928. Serial No. 284,814. 1 Claim. (Cl. 34—26.)

A hair drying structure comprising a hood having spaced inner and outer walls defining an air passage, an air supply source secured to and communicating with said passage, said inner wall provided with spaced air openings, air deflectors secured to said inner wall adja-



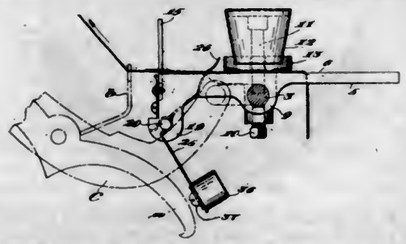
cent said openings for deflecting the air upwardly in said hood, and air outlets formed through the walls of said hood to permit said air to escape therefrom.

1,784,140. FRONT FLUTED DRAWING ROLL FOR GILL BOXES. SAMUEL HADFIELD and GUSTAVE J. BUCKLITCH, Lawrence, Mass. Filed Apr. 24, 1929. Serial No. 357,849. 3 Claims. (Cl. 19—129.)



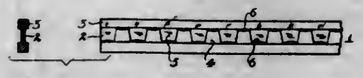
1. The combination in a gill box having a frame, back feed rolls, fallers, a positively driven, fluted bottom front delivery roll, and an endless apron which passes around said delivery roll; of two guideways fixed to the frame; with shaft carriers slidable in the guideways; a horizontal shaft fixed to said carriers, said shaft having at the top oil recesses and oil channels which extend from said recesses down around and along the surface of said shaft; a fluted shell roll so revoluble on the shaft between the oil recesses as to carry oil down from said channels; and spring pressed saddles which engage the shaft outside the shell roll, said saddles having oil holes which connect with the oil recesses and bearings for the shell roll which extend over the oil channels and confine the oil therein.

1,784,141. CLEARER AND SLUB CATCHER FOR TEXTILE MACHINES. WALTER M. HASTINGS, Methuen, Mass. Filed Nov. 10, 1927. Serial No. 232,315. 7 Claims. (Cl. 28—64.)



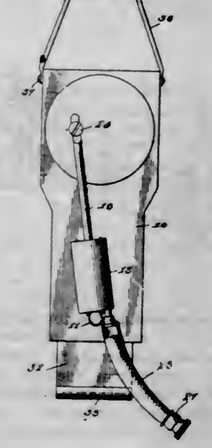
1. A filament clearer and slub catcher having plates with slots therein, means for supporting the plates normally out of contact with each other, one of said plates being mounted for motion about a center toward the other plate, and having a slot narrower toward the center than toward the periphery of its arc of motion, and means for guiding the filament normally to run in the wider part of the slot in the movable plate.

1,784,142. MATERIAL STRIP FOR SPRING-TOOTH LOCK WASHERS. RICHARD T. HOSKING, Wilmette, Ill., assignor, by mesne assignments, to Shakeproof Lock Washer Company, Incorporated, Chicago, Ill., a Corporation of Delaware. Filed Dec. 15, 1928. Serial No. 326,347. 4 Claims. (Cl. 29—148.)



2. A strip of spring material thinned in the region of its central longitudinal axis, the thinned portion severed lengthwise along an irregular line giving two stock strips each having a serrated edge consisting of locking members thinner than the strip and spaced apart, portions of said locking members formed to constitute biting prongs that project out of the plane of the thicker portion of the strip on opposite sides thereof, the outer ends of said locking members of curved contour, for the purposes set forth.

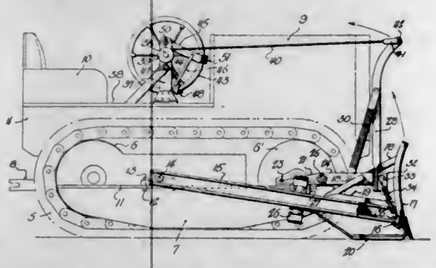
1,784,143. TIRE PUMP. REUBEN B. JORDAN, Poplarville, Miss. Filed Nov. 5, 1928. Serial No. 317,266. 2 Claims. (Cl. 230—39.)



1. In a device of the character described, a base including a substantially flat standard rising therefrom, a rectangular plate including a reduced channel like lower portion slidably mounted upon the standard, a pivoted handle carried by said plate whereby the latter can be adjusted vertically on the standard, said plate having notches formed in the rear wall thereof, a pivoted dog carried by the standard and cooperating with the notches to hold the plate in a given position, a post projecting horizontally from the front face of the plate, a cylinder supported on said post, a piston operating within the

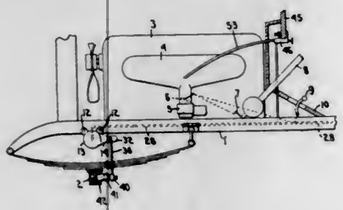
cylinder, a piston rod, and means supported by the plate for reciprocating said piston rod and including a drive shaft arranged at one side of the plate.

1,784,144. MATERIAL-HANDLING APPARATUS. JOSEPH H. KERBER, West Allis, Wis., assignor to Hi-Way Service Corporation, Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 7, 1930. Serial No. 433,973. 7 Claims. (Cl. 37—144.)



1. An attachment for tractors of the endless tread propelled type comprising an implement-carrying frame, means for pivotally connecting said frame to the tread frames of the tractor, means for raising and lowering said frame including hoisting frames operatively connected with said carrying frame, means for pivotally connecting said hoisting frames to the tread frames of the tractor, and means under the control of the operator for raising and lowering said hoisting frames.

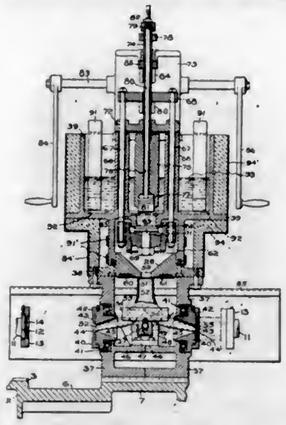
1,784,145. MOTION-ARRESTING MEANS FOR MOTOR-PROPELLED VEHICLES. JAMES B. KIRBY, West Richfield, Ohio. Filed June 2, 1922. Serial No. 565,317. 11 Claims. (Cl. 188—130.)



1. In a motion arrester for motor propelled vehicles, a plurality of pairs of relatively movable friction elements adapted to be connected to relatively movable parts of a vehicle, independent vacuum operated means for causing pressure between the elements of each of said pairs and means for controllably connecting all of said means to the manifold of the propelling motor.

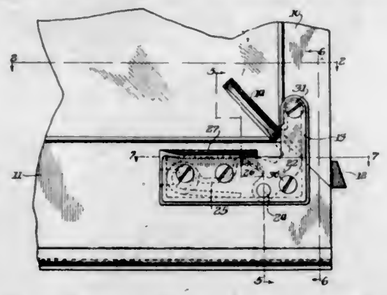
1,784,146. MACHINE FOR BABBITTING SLEEVE BEARINGS. CARL H. LEIS, New Castle, Pa., assignor to Johnson Bronze Company, New Castle, Pa., a Corporation of Pennsylvania. Filed Dec. 28, 1929. Serial No. 417,134. 15 Claims. (Cl. 22—58.)

7. In a machine for babbitting sleeve bearings, a babbitt melting pot having a discharge chamber in the base thereof, heating means for the pot, a valve for closing the outlet end of the chamber, a valve for controlling the inlet end thereof, means for actuating said valves, a support for said pot and provided with a secondary discharge opening, heating means for maintaining said support at the desired temperature, and a dual conductor



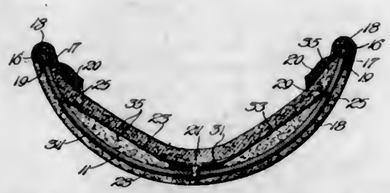
spout member pivotally supported beneath said support and adapted to be adjusted to conduct a discharge of metal through either of the spouts.

1,784,147. SASH LATCH. JOHN F. LEVAN, Elkhart, Ind., assignor to The Adams & Westlake Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 11, 1927. Serial No. 174,510. 6 Claims. (Cl. 292—173.)



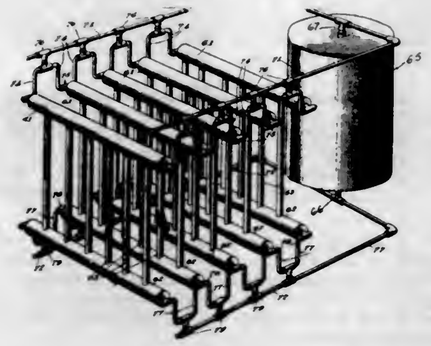
1. The combination with a metal sash, of a slideway in one of the marginal members of the sash, a relatively narrow bolt in the slideway, and projections on both sides of the bolt in contact with the sides of the slideway for centering the bolt in the slideway in spaced relation to the sides of the latter.

1,784,148. GUARD FOR ATHLETES. DAVID LEVINSON, Chicago, Ill., assignor to Wilson-Western Sporting Goods Co., Chicago, Ill., a Corporation of Delaware. Filed Mar. 23, 1929. Serial No. 349,314. 2 Claims. (Cl. 2—2.)



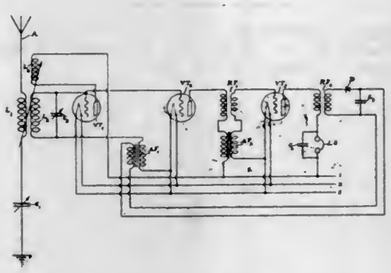
1. In an athletic guard, the combination of a relatively stiff guard member curved to the general contour of a member to be protected, with a metal tension member extending along a chord of an arc of curvature of said guard member, a rivet for simultaneously tensioning said tension member and securing the same to said guard, and a compressible washer between said tension member and said guard and adapted to be compressed in said tensioning operation.

1,784,149. BOILER. ALVA ARTHUR LINDLEY, Spokane, Wash. Filed Nov. 13, 1925. Serial No. 68,856. 1 Claim. (Cl. 122—332.)



A boiler, including a housing, a plurality of units therein, each unit comprising spaced apart upper and lower longitudinal headers, vertical water tubes connecting said longitudinal headers, upper and lower transverse headers adjacent the opposite ends of said longitudinal headers, bent pipe connections between the longitudinal and transverse headers to facilitate assembly as well as accommodate expansion, a vertical feed drum or tank positioned exteriorly of the housing, and pipe connections between the upper and lower ends of said tank and said upper and lower transverse headers, said vertical feed tank extending throughout the length of said vertical water tubes to maintain the water in said tubes at the desired level therein.

1,784,150. AMPLIFIER OF ELECTRICAL CURRENTS. EDWARD H. LOFTIN, Washington, D. C., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a Corporation of Delaware. Filed June 22, 1923. Serial No. 647,028. 6 Claims. (Cl. 179—171.)



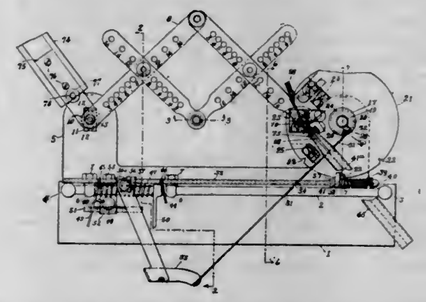
1. An electrical amplifying system including a pair of amplifiers, an input circuit common to said amplifiers having a portion responsive to high frequency currents and a portion responsive to lower frequency currents, and independent output circuits associated with said amplifiers, one of said output circuits being so coupled to said input circuit as to transfer said high frequency currents therebetween, and one of said output circuits being adapted to transfer said lower frequency currents therefrom.

1,784,151. GOGGLES. ROBERT MALCOM, Chicago, Ill. Filed Nov. 25, 1929. Serial No. 409,468. 6 Claims. (Cl. 2—14.)



1. In a goggle, an eye-cup having a side wall of sheet material formed to bring the ends of the sheet into adjacent relation, while one of the edges of the sheet is formed to provide a lens-holding groove; a plate disposed transversely of the eye-cup in lapping relation with the adjacent ends of the cup-wall, said plate being provided with diverging slots; and protruding portions on the cup-wall disposed through said slots whereby the position of said plate controls the relation of the adjacent ends of the cup-wall.

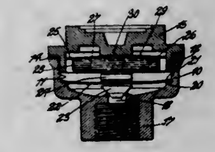
1,784,152. LETTERING MACHINE. LEONARD MCDONALD, Houston, Tex. Filed July 5, 1924. Serial No. 724,347. 23 Claims. (Cl. 33—25.)



2. A guide bar, a support mounted for movement longitudinally on said guide bar, a master copy and a pantograph mounted upon said support, a tracing point and a drawing point carried by said pantograph, for copying the characters of said master copy, and spacing mechanism adapted for producing an intermittent movement of said support for spacing the copied characters.

8. A guide bar, a support mounted for movement longitudinally thereon, a pantograph having a drawing point and a tracer, mounted on said support, a master copy mounted on said support, consisting of grooved designs of characters superposed, each design having the elements of several characters, the grooves serving to guide said tracer.

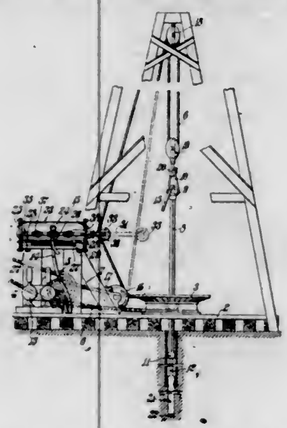
1,784,153. STEAM TRAP. JOSEPH MESSMER, Kirkwood, Mo., assignor to Messmer Brass Company, St. Louis, Mo., a Corporation of Missouri. Filed Oct. 2, 1926. Serial No. 139,083. 1 Claim. (Cl. 236—58.)



In a steam trap, a housing, a heat expansible valve-operating member within said housing, a valve seat, a

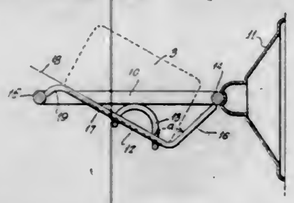
normally arched resilient valve-carrier disposed beneath said member, and a plug secured to said carrier, said member consisting of a receptacle, diaphragms forming both sides of said receptacle, and a volatile fluid within said receptacle, the diaphragms being so constructed and said fluid so proportioned that said diaphragms assume inwardly concave positions when the operating member is subjected to normal temperatures and outwardly convex positions when subjected to a predetermined higher temperature, the central portion of said diaphragms being under a compression stress when in a flat or plane position whereby when said diaphragms pass slightly beyond said plane position, while moving in either direction responsive to temperature variations, they automatically snap into curved positions and thus rapidly complete the closing or opening of the valve in advance of full expansion of said fluid.

1,784,154. DRILLING APPARATUS. JOSEPH S. MITCHELL, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Oct. 17, 1925. Serial No. 63,147. 4 Claims. (Cl. 255—19.)



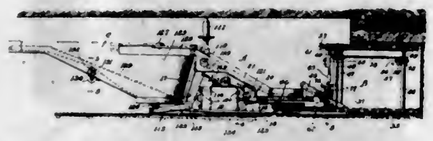
1. In a rotary oil or gas well drilling apparatus, the combination with a rotary table, rod line, and hoisting mechanism including a hoisting drum and a hoisting cable supporting the rod line, of means for feeding and controlling the rod line including an auxiliary feeding device having means engaging the hoisting cable intermediate the ends thereof, the connection between the hoisting drum and rod line on which the feeding device acts being deflected upon initial feeding of said device and being slackened during feeding until it assumes a straight line when the limit of feed of said device has been reached, said connection being so arranged that a predetermined feeding movement of the feeding device effects a substantially reduced feeding movement of the rod line.

1,784,155. SOAP HOLDER. HECTOR E. MOINEAU, Marlboro, Mass. Filed Jan. 29, 1929. Serial No. 335,884. 5 Claims. (Cl. 45—28.)



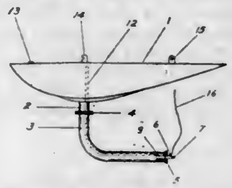
1. A soap holder embodying a frame, and filler wires extending across the frame from the rear to the front thereof and forming a support for a cake of soap, said filler wires being bent downwardly to collectively form a support for a cake of soap and the base of which support is inclined in an upward and forward direction, the forward ends of the filler wires being bent downwardly to their point of attachment to the frame, whereby the plane of the inclined base is appreciably above the frame at the front thereof.

1,784,156. APPARATUS FOR MINING AND LOADING COAL. EDMUND C. MORGAN, New York, N. Y.; Olive Eugenie Morgan executrix of said Edmund C. Morgan, deceased. Filed Nov. 19, 1917. Serial No. 202,825. 63 Claims. (Cl. 262—28.)



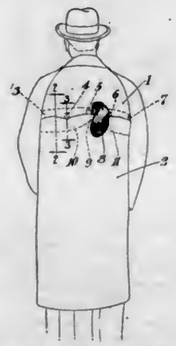
1. A mining machine comprising a frame, a cutter carried by said frame, a jack comprising a U-shaped bar pivotally connected with said frame, and a lever for tilting said bar about its pivot to adjust the height of a portion of said frame relative to the surface upon which said machine is supported.

1,784,157. PROCESS AND APPARATUS FOR ATOMIZING MATERIALS FROM MOVING AIRCRAFT. NICHOLAS E. OGLESBY and FLEMING R. WEAVER, Edgewood, Md. Filed Mar. 9, 1929. Serial No. 345,856. 5 Claims. (Cl. 244—1.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)



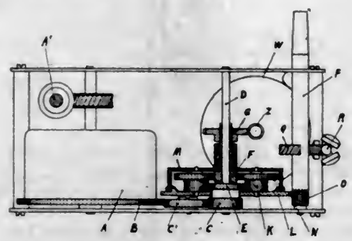
5. An apparatus for dispersing fluids comprising a fluid container, discharge and vent lines communicating with the interior of said container and terminating at the same point externally of said container, and a common means for closing said lines.

1,784,158. RAINCOAT. CHARLES H. PLACE, New Rochelle, N. Y. Filed Oct. 30, 1929. Serial No. 403,470. 1 Claim. (Cl. 2—87.)



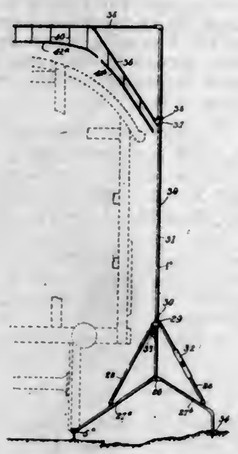
A raincoat comprising, in combination, an outer yoke, an inner yoke of moisture absorbing material, both yokes being joined at the shoulder; a back portion the upper edge of which extends transversely across the back of the wearer and is removed from and positioned below the shoulder; the lower edge of both of said yokes extending below said upper edge; the said outer yoke being so secured to said back portion as to form a plurality of openings leading from the region inside the coat to the outside atmosphere; the said inner yoke being of less width than the adjacent part of said back portion so as to form an air space between said inner yoke and said back portion; the bottom of said inner yoke comprising two convexly curved edges meeting at the center to form an upward recession, the entire said bottom being unattached to and free from the garment.

1,784,159. DOUBLE-CONTROL DEVICE FOR PHONOGRAPHS. WASSILY REBIKOFF, Paris, France, assignor to Leonide Davydoff, Paris, France. Filed May 10, 1929, Serial No. 362,009, and in Germany Aug. 11, 1928. 4 Claims. (Cl. 185—2.)



1. Double control device for phonographs comprising a spring motor, a second motor, a differential mechanism controlled simultaneously by both motors when the second motor is operative, a turn-table shaft controlled by said mechanism and means adapted to prevent the reverse actuation of the second motor by the differential mechanism.

1,784,160. PORTABLE LOADING GAUGE FOR RAILROAD CARS. JACQUES RÉMOND, Amiens, France. Filed Nov. 5, 1928, Serial No. 317,376, and in France Nov. 21, 1927. 3 Claims. (Cl. 33—169.)



3. In a portable loading gauge for railroad cars, the combination of an upright, a pivot member disposed at the lower end of said upright, a tripod the legs of which are pivoted to said member, two base plates mounted respectively at the bottom of each of two front legs of the tripod and adapted to be placed upon the rails of the track, a pointed portion at the bottom part of the rear leg, a ground plate situated above said pointed portion, a sleeve slidable on the said upright, two struts pivoted each at one end to a corresponding front leg and at the other end to said sleeve, two sections placed in line and forming a strut for the rear leg, said sections being respectively pivoted to said sleeve and to the rear leg, a threaded sleeve connecting the said sections and serving to regulate the length of the strut which they form, and means for holding the said slidable sleeve in its two positions corresponding respectively to the open and to the folded positions of the tripod.

1,784,161. PROCESS OF REFINING CELLULOSE PULP. GEORGE A. RICHTER and MILTON O. SCHUR, Berlin, N. H., assignors to Brown Company, Berlin, N. H., a Corporation of Maine. Filed May 27, 1924. Serial No. 716,154. 3 Claims. (Cl. 92—9.)

1. A process which comprises treating unbleached, previously-liberated pulp with an oxidizing agent until the residue from this treatment shows a maximum alpha cellulose content, and then treating this high alpha-cellulose-containing residue with an alkaline liquor under conditions to increase further the alpha cellulose content of the residual pulp, thus preserving or developing in the fibres the most desirable paper-making characteristics.

2. A process which comprises treating unbleached wood pulp with an oxidizing agent until the residue from this treatment shows a maximum alpha cellulose content, and then digesting this high alpha-cellulose-containing residue in an alkaline liquor under conditions to increase further the alpha cellulose content of the residual pulp, thus preserving or developing in the fibres the most desirable paper-making characteristics, and bleaching the digested pulp.

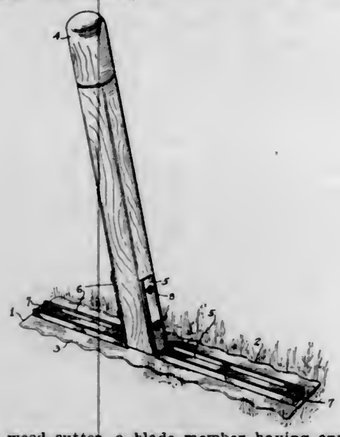
1,784,162. PARACHUTE HARNESS. FLOYD SMITH, Morrisville, Pa., assignor to Switlik Manufacturing Company, a Corporation of New Jersey. Filed Nov. 4, 1929. Serial No. 404,556. 9 Claims. (Cl. 244—21.)



1. A harness comprising a swing in which the wearer is adapted to be seated with the upright elements extending upwardly in front of him, diagonal back straps each adapted to extend forwardly over a shoulder of the wearer and over the hip at the opposite side, a member slidable along each of said upright elements, the upper portion of each back strap extending slidably through the corresponding slidable member and being continued to the back along the strap, a sliding connection between the lower end of the back-turned part of each back strap and the body of the strap, the lower and forward ends of the back straps being connected to said upright elements, two leg straps extending from the bottom of the swing to the

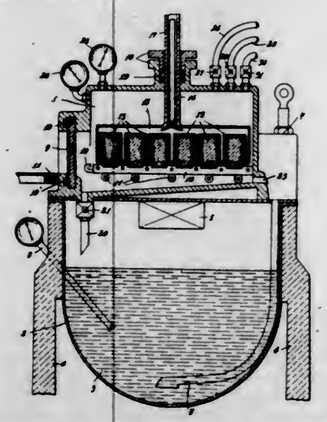
said upright elements near the lower ends of the latter, and a breast strap device detachably connecting said upright elements together.

1,784,163. WEED CUTTER. EDWARD STAUVERMAN, Lakeland, Fla. Filed Dec. 21, 1928. Serial No. 327,684. 2 Claims. (Cl. 30—9.)



1. In a weed cutter, a blade member having oppositely disposed wavelike cutting edges, a handle element angularly mounted on the blade intermediate its ends, bracket members for securely holding the handle in fixed relationship to the blade, one portion of the bracket members extending upwardly along the handle element, another portion of the bracket members extending along the upper surface of the blade, substantially to the ends thereof, the bracket portions being securely fastened to both the handle and blade in such a manner that the blade will receive reinforcement therefrom throughout its length.

1,784,164. PROCESS FOR IMPREGNATING BRICKS AND LIKE MATERIALS. ANDREAS JOHANNES MARIA STOFFELS and HERMAN TOBIAS VAN DER WISSEL, The Hague, Netherlands. Filed Aug. 25, 1927, Serial No. 215,498, and in the Netherlands Dec. 31, 1926. 12 Claims. (Cl. 91—70.)

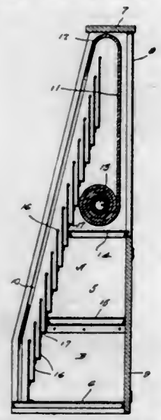


1. A process for impregnating bricks and like material with thermo-plastic substances, consisting in first preheating said material and then impregnating the different sides of the preheated material to a different extent under pressure by cooling the impregnated medium in the impregnating chamber at those sides of the material where a less intensive impregnation is desired.

1,784,165. METHOD OF PRODUCING BORNEOL AND LIMONENE. YOSHIO TANAKA, Kitatoshima-Gun, Tokyo-Fu, and TSUTOMU KUWATA, Ebara-Gun, Toyko-Fu, Japan. Filed July 8, 1929, Serial No. 376,848, and in Japan Mar. 18, 1929. 2 Claims. (Cl. 260—153.)

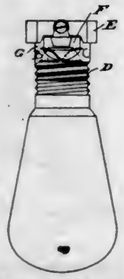
1. A method of producing borneol and limonene consisting in treating pinene or pinene-containing material with organic acids in presence of silica gel as catalyst, and distilling out the limonene and saponifying the remaining borneol ester.

1,784,166. FILING CABINET. GEORGE TONY WASHINGTON, Russell, Ky. Filed Jan. 13, 1927. Serial No. 160,926. 1 Claim. (Cl. 45—2.)



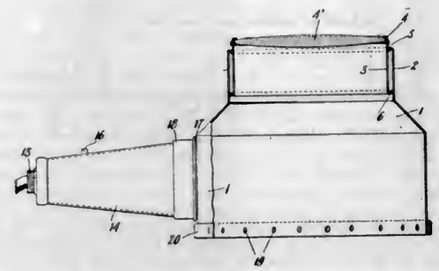
In a file cabinet of the class described, a casing including a bottom, a pair of end walls, a top, and a back wall which extends downwardly from the top to the intermediate portion of the casing, the front side of the casing being open, a series of vertically arranged stepped pockets secured between the end walls of the casing adjacent the open front side thereof, a horizontal partition arranged between the lower edge of the rear wall and the intermediate portion of said pocket for dividing the cabinet into upper and lower compartments in the rear of the pockets, a spring drum mounted between the end walls in the lower portion of the upper compartment, a sectional rolling lid attached at one end to the roller and adapted to be extended downwardly between the end walls in front of the pockets to cover the same when in one position, said lid being confined in the upper compartment when in a rolled position, and a swinging closure arranged between the end walls and between the lower edge of the back wall and the bottom of the casing whereby access to the lower compartment may be had.

1,784,167. SAFETY DEVICE FOR ELECTRIC-LAMP BULBS. PAULINO GARCIA ARGÜELLES, La Felguera, Spain. Filed May 17, 1929, Serial No. 363,826, and in Spain Oct. 23, 1928. 3 Claims. (Cl. 176—31.)



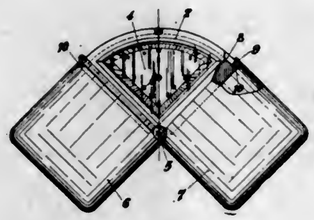
3. A locking device for bulbs of electric lamps having threaded shells, including a metallic spring member attached to the outer end of the shell of the bulb and adapted to be sprung inwardly for insertion in the socket of an electric fixture and subsequently adapted to be engaged in an inaccessible position in the socket for positively preventing reverse rotation and withdrawal of the lamp bulb.

1,784,168. READING GLASS. JACOB B. BANDER, Newark, N. J., assignor of one-half to Christian Berger, Brooklyn, N. Y. Filed June 4, 1928. Serial No. 282,531. 6 Claims. (Cl. 88—39.)



1. A device of the kind described including an open bottomed body having a lower portion provided with a lateral opening adjacent the bottom end of the body, said body having its inner surface arranged to reflect and diffuse light entering said lateral opening, a lamp housing extending from said opening, a lamp in said housing, and a lens closing the upper end of the body.

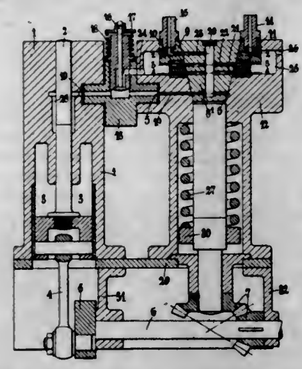
1,784,169. WATCHCASE. FRÉDÉRIC BAUMGARTNER, Geneva, Switzerland, assignor to the Firm Fabrique des Montres Zenith, successeurs de Fabriques des Montres Zenith, Georges Favre-Jacot, Le Locle, Switzerland. Filed Jan. 11, 1929, Serial No. 331,792, and in Switzerland Dec. 1, 1928. 2 Claims. (Cl. 206—37.)



1. A combination case comprising a central part and two cover parts, the central part having the shape of a sector of a circle and being adapted to receive an article to be enclosed in the case, and the two cover parts being in slidable engagement with the curved portion of the periphery of the central part and hingedly connected to th vertex of this part, so as to swing in opposite directions to expose or to cover said article.

1,784,170. FUEL PUMP FOR INTERNAL-COMBUSTION ENGINES. JOSEF BENEŠ, Vsetin, Czechoslovakia. Filed May 29, 1929, Serial No. 367,108, and in Great Britain Mar. 12, 1929. 4 Claims. (Cl. 123—138.)

1. A fuel pump for multi-cylinder internal-combustion engines working with self-ignition and with fuel injection without the help of air, comprising a single pressure pump in combination with a fuel distributor capable of supplying fuel to the nozzles of the various cylinders and having a stationary saddle, a revolvable valve plug within the said saddle and an annular passage between the saddle and the valve plug and the valve plug having an axial bore and radial bores leading from the said axial bore to



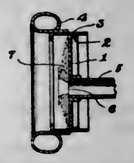
the said annular passage and radial bores leading to the nozzles, and in further combination with a pump delivery chamber with which the said axial bore is in open communication and with means for revolving the valve plug for establishing an open communication from the said axial bore to the various injection nozzles in turn, as set forth.

1,784,171. ARTIFICIAL LIGHTING HAVING A DAYLIGHT EFFECT. HERBERT BERTLING, Berlin-Wilmersdorf, Germany. Filed Apr. 28, 1928, Serial No. 273,731, and in Germany May 14, 1927. 5 Claims. (Cl. 240—1.)



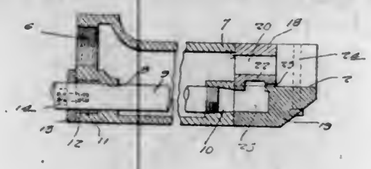
1. A device for artificially illuminating objects for reproducing their daylight colour effect, for photography in correct colour values, for colour photography and the like, comprising in combination a metal vapour lamp emitting violet and blue rays, a second metal vapour lamp emitting violet and blue rays and having a yellow filter placed in front of it so as to pass green rays, a metal vapour lamp emitting yellow and red rays, and means for combining the rays of differently coloured light emitted from the respective lamps as set forth.

1,784,172. LISTENING AND SELECTING APPARATUS. ANDRÉ BLOCH, Paris, France. Filed Oct. 11, 1926, Serial No. 140,911, and in France Oct. 26, 1925. 3 Claims. (Cl. 181—25.)



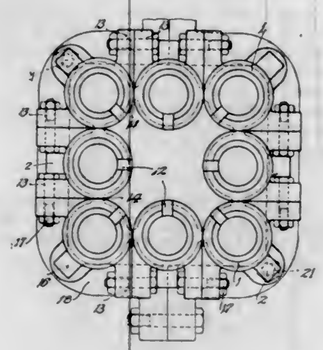
1. In apparatus of the character described, the combination with a sound conducting member, of enclosing means for surrounding the ear of the operator and connected with the sound conducting member for regulating at will the volume of the air cushion existing between the auditory channel of the operator's ear and the sound conducting member.

1,784,173. OIL BURNER. GEORGE H. BOWLER and OTOHEI NASU, Las Vegas, Nev. Filed Jan. 14, 1928. Serial No. 246,830. 1 Claim. (Cl. 299—140.)



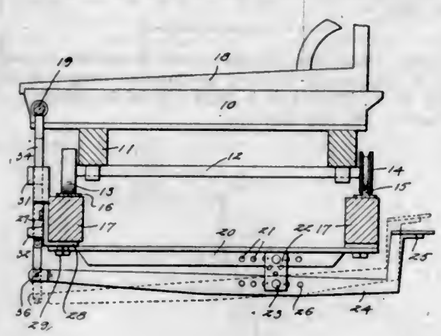
In an oil burner including a body portion, a nozzle detachably mounted on one end of the body portion and comprising a lower section and an upper section mounted on the lower section, the upper section having its free end terminating inwardly of the free end of the lower section, the upper section being provided with a longitudinal, polygonal air passage extending from end to end thereof, diverging wings formed integrally on the forward end of the upper section on opposite sides of the air passage and extending over the lower section, the upper section being further provided with a recess in its lower side beneath the air passage and of a width substantially corresponding to the width of the air passage, the lower side of the upper section being still further provided with a comparatively shallow recess extending from the first named recess to the forward end of the upper section and constituting an oil passage therebetween, and the lower section of the nozzle being provided with an angular oil receiving chamber communicating with the rear end of the lower section and with the first named recess in the upper section in a manner to discharge oil thereinto.

1,784,174. COMPOUND MOLD FOR CASTING METAL BODIES. GEORG BÜHLER, Vienna, Austria. Filed Oct. 29, 1928, Serial No. 315,818, and in Germany Nov. 4, 1927. 3 Claims. (Cl. 22—149.)



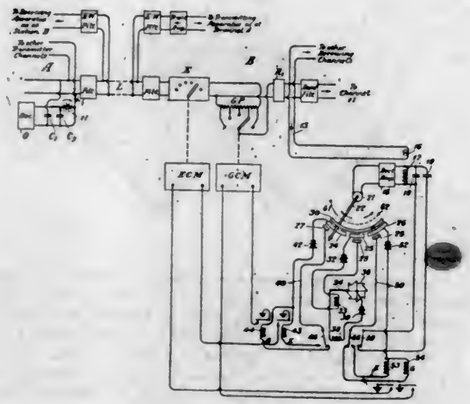
1. A compound mold for casting metallic bodies comprising a plurality of cylindrical chill molds having substantially opposed surfaces made smooth and contacting with each other, spaced lugs extending rearwardly from each of the molds and screw bolts passing through the lugs on adjacent molds so as to combine all of the molds into one unit to facilitate an easy filling from above with molten material through a common funnel.

1,784,175. ADJUSTING STOP FOR SAWMILL CARRIAGE HEADBLOCKS. CONRAD A. CARBAUGH, Dickeys Mountain, Pa. Filed Aug. 6, 1929. Serial No. 383,915. 3 Claims. (Cl. 143—105.)



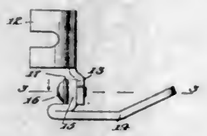
1. The combination with a saw mill carriage having a head block, supporting wheels and a track structure with which the wheels engage, the head block being freely movable along the carriage but normally moving with the carriage, of means for stopping the movement of the head block with relation to the carriage comprising upwardly extending guides on the track structure, a lever extending transversely of and below the track structure and pivotally connected thereto for movement in a vertical plane, one end of the lever having a treadle, and a vertically sliding stop mounted in and extending through the guides thereof, the stop being operatively connected to the end of the lever opposite the treadle, a depression of the treadle acting to shift the stop upward into the path of movement of the head block.

1,784,176. EQUALIZATION FOR CARRIER SYSTEMS. ALLEN CARPE, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed July 2, 1929. Serial No. 375,403. 9 Claims. (Cl. 178—44.)



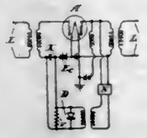
2. In a multi-frequency signaling system, a transmission line, means for transmitting over the line a plurality of pilot frequencies in sequence, means at a repeater point for observing the amplitude of the received pilot frequencies, and means controlled by the incoming pilot signals for introducing gain or loss in proportion to these amplitudes to bring the level of transmission for the different frequencies to a desired value.

1,784,177. SEWING-MACHINE PRESSER FOOT. ANDREW J. CARMICHAEL and ORESTE BALZANO, New Haven, Conn., assignors to The Greist Manufacturing Company, a Corporation of Connecticut. Filed Oct. 6, 1927. Serial No. 224,371. 2 Claims. (Cl. 112—235.)



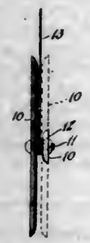
2. A sewing machine presser-foot comprising a shank having a flat offset depending portion, the offset affording a shoulder at the top of said depending portion, a presser-foot proper having near its rear end a flat upwardly projecting lug one face of which abuts against said depending portion of said shank and the upper edge of which is beneath said shoulder, a rivet passing through said lug and said depending portion of said shank and serving to pivotally connect the said presser-foot proper with said shank, and a plate bow-spring located beneath the head of said rivet; whereby said presser-foot proper may rock and tilt relative to its shank to accommodate itself to inequalities of the work passing beneath it.

1,784,178. VOICE-CONTROLLED CIRCUITS. ALLEN CARPE, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 18, 1928. Serial No. 300,473. 16 Claims. (Cl. 178—44.)



1. In a transmission system, a transmission element, a voice responsive control circuit for determining the effectiveness of said transmission element in response to voice frequency components of predetermined magnitude, and means associated with said control circuit to discriminate against those frequencies of an applied voice wave which are in a range of large energy, whereby corresponding components of induced cross-talk will be reduced to a magnitude smaller than applied voice frequencies in a range of small energy.

1,784,179. WHIRLIGIG. PEYTON S. COLES, Atlanta, Ga. Filed Jan. 29, 1930. Serial No. 424,352. 1 Claim. (Cl. 46—14.)



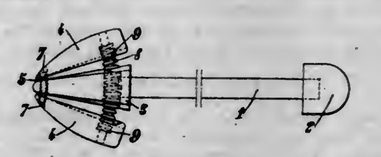
A whirligig comprising, in combination, a pair of elongated, flat bars having control openings; a bolt passing through the openings; a washer on the bolt between the bars providing a winding shaft; a nut on the bolt adapted to grip the bars against the washer; and a cord adapted to be wound on the shaft, said bars having their inside edges beveled to guide the cord between them.

1,784,180. ROOF FOR CARRIAGE BODIES. EMILE DELALE, Paris, France. Filed July 9, 1926, Serial No. 121,443, and in France Sept. 12, 1925. 1 Claim. (Cl. 296—137.)



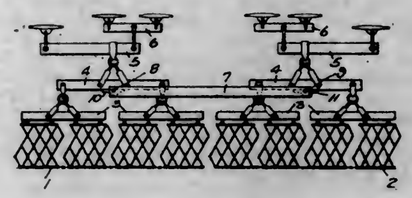
In a folding top for closed vehicle bodies, a flexible hood, transverse members fastened on the under face of the said flexible hood, and comprising intermediate transverse members constituted by resilient blades, two extreme transverse members constituted by angle bars, longitudinal slides at the upper edges of the vehicle body for the ends of the transverse members, means at the ends of the said transverse members for locking the same at any point of the slides, bolts fastened on the upper part of the front and rear walls of the vehicle body, for eventually engaging the vertical wings of the extreme angle bars and tightening the flexible hood when the same is entirely unfolded, longitudinal grooves on the vehicle body adjacent to the longitudinal slides for receiving the longitudinal edges of the flexible hood, and means for maintaining, for tightening purposes, the said edges of the hood in the said grooves.

1,784,181. BOOT LAST. GASTON JULES DEMOUCRON, Paris, France. Filed Feb. 24, 1928, Serial No. 256,751, and in France Feb. 24, 1927. 2 Claims. (Cl. 12—128.2.)



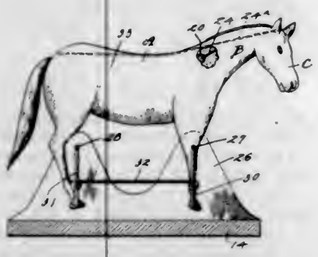
1. In a boot-last comprising a part for connecting a heel-piece with a toe piece, a central member perforated at the front part, flank members perforated at their front part, a connecting member freely fitted in the perforations of the central member and of the flank members, and resilient members for spacing apart the two flank members.

1,784,182. DRAG HARROW. CLARENCE JOHN LAWRENCE DYER, Kisbey, Saskatchewan, Canada. Filed Oct. 5, 1929. Serial No. 397,614. 1 Claim. (Cl. 55—84.)



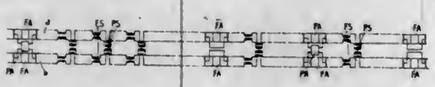
A drag harrow, comprising two members each member being provided with a transverse gang of harrow sections, cross-trees to which the sections are connected, intermediate cross-trees to which the aforesaid cross-trees are connected at their ends, and a draft gear connected centrally of each intermediate cross-tree, and a bar member extending between the intermediate cross-trees of each harrow member, a king bolt extending through each end of the bar, and a bracket carried by each intermediate cross-tree and in which the corresponding king bolt is turnably held.

1,784,183. MECHANICAL BUCKING HORSE. ROY H. FIKE, Eagle, Idaho. Filed Jan. 15, 1929. Serial No. 332,713. 3 Claims. (Cl. 46—40.)



1. A mechanism of the character described, comprising the similitude of an animal body having two forelegs and two hind legs, the legs being rigid with the body of the animal, a head having a neck, the neck being hingedly connected to the body and moving in a vertical plane, an elastic member attached to the body beyond the pivotal center of the head and neck and extending along the neck and engaged with the head, the head when shifted in either direction beyond the neutral point carrying the elastic member across the pivotal center whereby the elastic member tends to yieldingly hold the head in one of two positions, forward and rear crank shafts connected to the respective forward and rear legs of the shafts, means for turning one of said crank shafts, and a connecting rod connecting the two crank shafts.

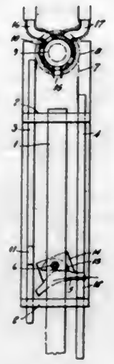
1,784,184. LONG-DISTANCE CABLE INSTALLATION. KUNO FISCHER, Nuremberg, Germany, assignor to Süddeutsche Tele-F-On-Apparate-Kabel- und Drahtwerke A.-G., Nuremberg, Germany. Filed Mar. 31, 1928, Serial No. 266,248, and in Germany Feb. 2, 1928. 5 Claims. (Cl. 178—45.)



1. Long distance cable installation comprising an inductively loaded cable and amplifiers along the cable, in which each two individual conductors are twisted together to a pair of conductors and each four such pairs of conductors are twisted together to a double star and in which side circuits are formed of the individual pairs of conductors and phantom circuits are formed of each two diagonally opposite pairs so that the ratio of the capacity of the phantom circuits to the capacity of the side circuits is less than 1.2.

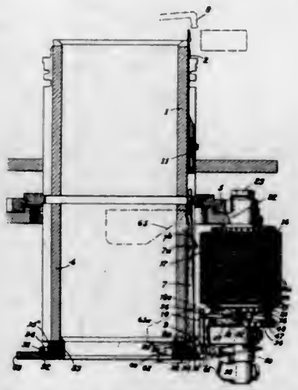
1,784,185. MECHANICAL MOVEMENT. NILS LUDVIG HAMMARSTRÖM, Stockholm, and ERIK ADOLF HOVING, Kungsor, Sweden, assignors to Aktiebolaget Maskinfabriken Gota, Stockholm, Sweden, a Corporation. Filed Dec. 9, 1926, Serial No. 153,657, and in Sweden Nov. 19, 1925. 4 Claims. (Cl. 74—14.)

1. In a device for the transmission of movement, a reciprocating member, a pair of slidable members adapted to be moved alternately in opposite directions, a carrier mounted for oscillation on the reciprocating member, a projection on the carrier, lugs on said slidable members positioned in the path of movement and engageable by the carrier, and an abutment coacting with the projection



on the carrier and adapted after engagement of the carrier with either of the lugs to shift said carrier to normal position.

1,784,186. KNITTING MACHINE. KENNETH HOWIE, Norristown, Pa., assignor to Wildman Mfg. Co., Norristown, Pa., a Corporation of Pennsylvania. Filed Jan. 6, 1928. Serial No. 244,974. 14 Claims. (Cl. 66—49.)

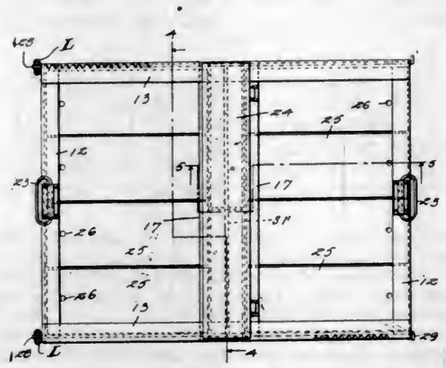


1. In combination in a knitting machine, needles, jacks, an elevating cam for the jacks normally out of operative position, a series of controllers for the jacks also normally out of operative position, a drum arranged on a vertical axis alongside the jack circle and having cam surfaces for setting said cam and controllers in operative position, said drum releasing the controllers seriatim to allow the jacks to be operated by the cam and to release the cam for its return to inoperative position after the jacks have performed their cycle of operation, substantially as described.

1,784,187. SHIPPING CRATE FOR SMALL ANIMALS. MARVIN C. IMLER, Malheur County, Oreg. Filed Aug. 7, 1928. Serial No. 298,001. 11 Claims. (Cl. 119—19.)

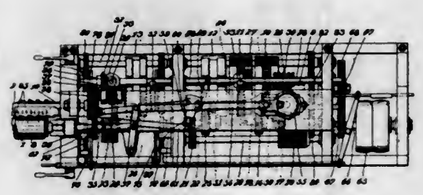
1. In a shipping crate for small animals, spaced parallel groups of individual open-ended cells, the cells of each group being parallel and contiguous, a containing structure for the cells having open sides and including parallel walls opposing the open ends of the cells of each

group, means fixed with relation to the walls preventing vertical movement of the cells, and removable means sup-



ported by said walls and engaging the outer faces of the end cells of the group for preventing transverse movement of the cells.

1,784,188. OPERATING MECHANISM FOR NET-MAKING MACHINES. SAIBEI KAKUDA, Hiroshima-Ken, Japan, assignor to Saibi Mojiami Kabushiki Kaisha, Hiroshima-Ken, Japan, a Corporation of Japan. Filed May 2, 1927. Serial No. 188,291. 3 Claims. (Cl. 96—4.)

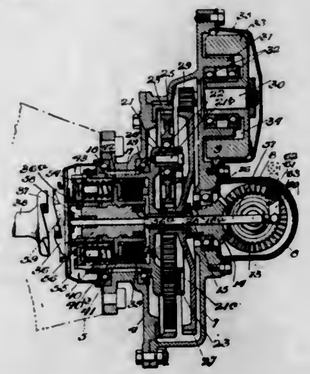


1. In an operating mechanism for net-making machines, the combination of a driving shaft, a plurality of toothed wheels fixed to the driving shaft, each of the toothed wheels being formed in several parts and only partially provided with teeth, intertwisting and interchanging shafts, a plurality of slidable toothed wheels secured to the intertwisting and interchanging shafts so as to permit longitudinal sliding movement along the partly toothed wheels, each of the toothed wheels engageable with the respective partly toothed wheels, a shifting device for said slidable toothed wheels, means for operating said shifting device from one of said partly toothed wheels on said driving shaft to control the timed intermittent rotation and reversal of the intertwisting shafts, toothed wheels connecting one intertwisting shaft to another intertwisting shaft whereby to form the net.

1,784,189. PROPELLANT POWDER AND METHOD OF COLLOIDING SAME. CHARLES H. KECK, New York, N. Y. Filed June 28, 1927. Serial No. 202,154. 6 Claims. (Cl. 52—22.) (Granted under the provisions of the act of Mar. 3, 1883, 22 Stat. L., 625.)

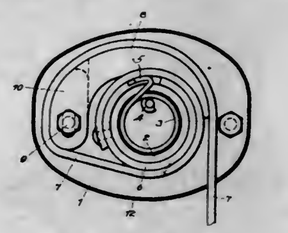
1. A method of colloiding nitro-cellulose which includes incorporating therewith a nitro-aromatic to which has been added only sufficient solvent to carry the nitro-aromatics into solution and then subjecting the mass to pressure and heat.

1,784,190. ENGINE STARTER. RAYMOND P. LANSING, Montclair, N. J., assignor to Eclipse Machine Company, Elmira Heights, N. Y., a Corporation of New York. Filed Jan. 18, 1928. Serial No. 247,727. 14 Claims. (Cl. 123—179.)



1. In apparatus of the class described, a driven member, a driving member therefor, means including a yielding driving connection for operatively connecting said driving member and the driven member, a flywheel, means for rotating the flywheel, the axes of rotation of said driven member and flywheel being laterally spaced and substantially parallel, and a two-step gear train directly connected to said driving member and flywheel for transferring energy stored in the flywheel to said driving member.

1,784,191. SHOCK ABSORBER. HANS LUDWIG, Homburg-on-the-Hohe, Germany. Filed July 8, 1926, Serial No. 121,194, and in Germany Oct. 1, 1925. 5 Claims. (Cl. 267—10.)

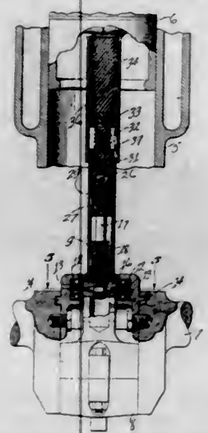


1. A shock absorber for vehicles, comprising in combination, a base member intended to be secured to the frame of the vehicle, a winding drum rotatably mounted on said base member, a rigid brake block pivoted on said base member so as to be capable of displacement towards and away from said winding drum, a brake band having one end intended to be connected to the vehicle underframe and the other end connected to the said winding drum so as to be capable of being wound on the drum, said brake band being passed round the brake block so as to enable it to force the brake block towards the winding drum and bear on a portion of the brake band wound on the drum, on the brake band being subjected to tension, and a spring connected to said winding drum for rotating the drum for winding up the brake band, on the frame of the vehicle approaching the vehicle underframe, as and for the purposes set forth.

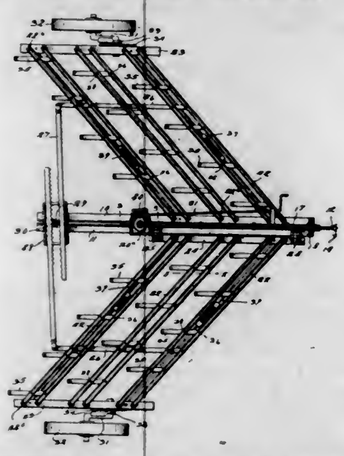
1,784,192. ENGINE CONSTRUCTION. ARTHUR D. MACFARLANE, Los Angeles, Calif. Filed Aug. 9, 1929. Serial No. 384,731. 2 Claims. (Cl. 74—14.)

1. In a device of the character described the combination of a piston, a crank shaft having an offset formed

therein, a connecting rod extending between said piston and said crank shaft, said connecting rod comprising sections, threads formed in said sections, and means carried within said sections and engaging said threads whereby said connecting rod may be lengthened or shortened during the rotation of said crank shaft, said means including a rotating rod having threaded extremities, means for moving said rod lengthwise of said connecting rod, said means comprising a pair of rollers actuated by a cam in the manner described.

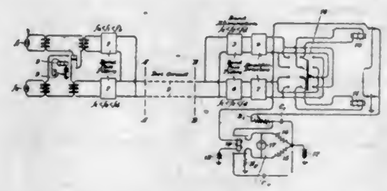


1,784,193. SPRING-TOOTH CULTIVATOR. ERNEST LOUIS MCOSKER, Preston, Kans. Filed Dec. 27, 1928. Serial No. 328,826. 2 Claims. (Cl. 55—125.)



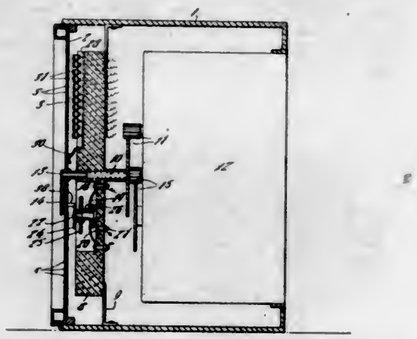
1. An implement of the character described, comprising a medially disposed frame having means at its forward end whereby it may be connected to a draft hitch, and having a vertically adjustable wheel at its rear end, wings disposed on each side of the medial frame, each of said wings comprising a plurality of parallel pairs of frame bars and longitudinal bars pivoted thereto, one of said wings being hingedly connected to the medial frame to thereby permit the wings to move vertically independently of each other, vertically adjustable supporting wheels carried on the outer ends of the wings, means mounted at the forward end of the medially disposed frame whereby the forward end of the frame may be raised or lowered, and teeth disposed in staggered relation to each other and swingingly connected to the pairs of frame bars.

1,784,194. TRANSMISSION FREQUENCY-DELAY-MEASURING CIRCUIT. DOREN MITCHELL, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 12, 1928. Serial No. 312,183. 10 Claims. (Cl. 175—183.)



1. The method of measuring the relative delay of a transmission circuit, which consists in simultaneously impressing upon the sending end of said circuit a pair of distinct single frequency currents, separating said frequencies at the receiving end to facilitate measurement thereon, and measuring the difference in time of arrival of said frequencies.

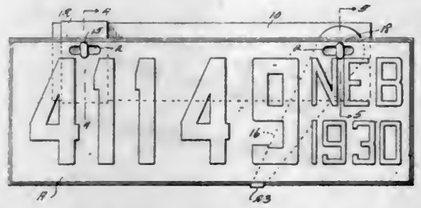
1,784,195. ELECTRIC PROGRAM CLOCK. LEVI CLYDE MORRIS, North Canton, Ohio. Filed Jan. 21, 1929. Serial No. 334,011. 5 Claims. (Cl. 200—38.)



1. An electric program clock comprising in combination, an insulated base, a stationary clock dial, a rotatable disc having circular rows of holes formed therein in a predetermined manner for cooperation with the dial, means for rotating the disc one complete revolution every hour, an hour hand movable across the front face of the rotatable disc, a minute hand arranged on the rotatable disc, a series of segmental contacts arranged radially within a socket formed in the front face of the insulated base, the inner end portions of the segmental contacts being raised and terminating in laterally disposed extremities, a contact ring arranged in the base with which the laterally disposed extremities are adapted to cooperate, means operable by the rotation of the disc for holding the laterally disposed extremities of the segmental contacts successively in engagement with the contact ring for one hour period, said stationary base being arranged rearwardly of the rotatable disc, a plug removably inserted in a predetermined one of the holes in said rotatable disc, and additional means arranged on the insulated base for cooperation with the aforementioned contacts to close an electric circuit to an alarm when the plug moves into position with the means.

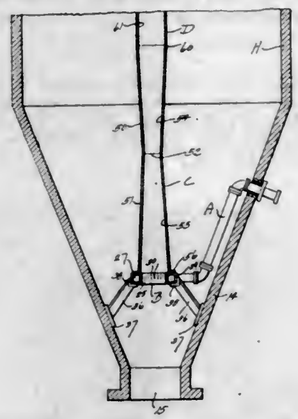
1,784,196. ADJUSTABLE LICENSE-PLATE HOLDER. FRANK H. NAGGATZ, Fairmount, N. Dak. Filed May 8, 1930. Serial No. 450,802. 5 Claims. (Cl. 40—125.)

1. A license plate holder including a supporting plate, an outwardly projecting T-shaped stud carried at one end of the plate and permanently extending transversely thereto and an outwardly projecting T-shaped stud oscillatably mounted at the other end of the plate, and resilient means



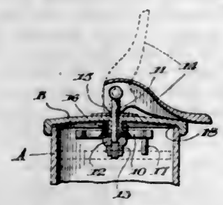
urging the stud in a direction transverse to the length of the plate, but permitting the stud to be turned into parallel relation to the plate.

1,784,197. CIRCULATING APPARATUS FOR WOOD-PULP DIGESTERS. ALBERT G. NATWICK, St. Catharines, Ontario, Canada. Filed Mar. 17, 1928. Serial No. 262,489. 9 Claims. (Cl. 92—7.)



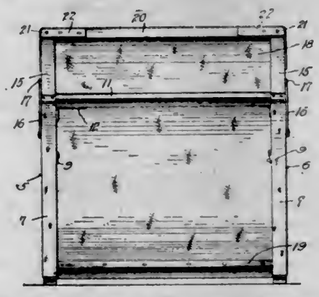
3. In a wood pulp digester the combination of a casing, an upright Venturi tube in the casing, means for discharging a ring-shaped fluid jet upwardly into the Venturi tube from the lower end thereof, and a conveyor pipe at the top of the Venturi tube for receiving circulating materials in an upward flow from the Venturi tube.

1,784,198. CLOSURE CAP FOR RADIATORS, WATER TANKS, PRESSURE TANKS, GAS TANKS, AND THE LIKE. EDWIN PERSSON, Estevan, Saskatchewan, Canada. Filed July 20, 1929, Serial No. 379,786, and in Canada May 28, 1929. 2 Claims. (Cl. 220—55.)



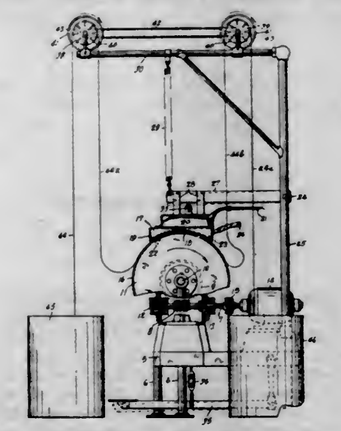
1. A closure of the class described comprising in combination, a cylindrical seat portion and a removable closure cap therefor, diametrically opposed circumferentially spaced apart, inwardly projecting ledges on the inner periphery of the seat portion and spaced from the mouth thereof, a plunger extending freely through a central orifice in the cap and disposed axially of the seat, a bar perpendicular to the plunger and rigidly secured centrally of its length to the inner end of the plunger, the ends of said bar adapted to underlie the aforesaid ledges, an operating lever hingedly connected to the outer end of the plunger, the axis of the hinge connection being perpendicular to the axis of the plunger whereby the plunger may be turned about its axis by means of the lever, a coil spring encircling the plunger and normally depressing the plunger to maintain the lever against the outer face of the cap and urge the bar away from the cap, the lever formed with a cam portion operatively contacting with the outer face of the cap whereby oscillation of the lever about its hinge connection raises and depresses the plunger.

1,784,199. BEACH CANOPY. MARTIN J. PETERSON, Selma, Calif. Filed Apr. 28, 1930. Serial No. 448,069. 2 Claims. (Cl. 135—5.)



2. In a canopy, a frame, said frame comprising end sections, a bar pivotally connected to one end section, means for removably connecting the opposite end of the bar to the opposite end section to hold the end sections in spaced relation with each other, pivoted bars extending forwardly from the frame, means for holding the pivoted bars in their extended positions, and a removable cover adapted to be stretched over the frame, and means for securing the cover to the frame.

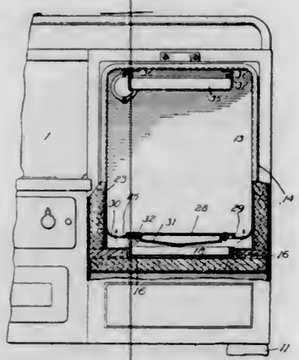
1,784,200. IRONING MACHINE. GUSTAVE A. PIEPENBRING, Stratford, Conn., assignor to The American Fabrics Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Sept. 4, 1928. Serial No. 303,685. 4 Claims. (Cl. 26—40).



1. In an ironing machine a base, a rotary drum mounted on the base, means for rotating the drum, an upright

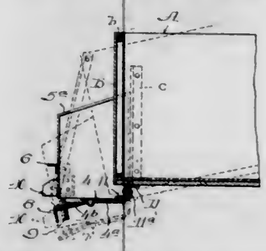
standard carried by the base, a lever pivoted to the standard, an iron carried by the lever and having a curved surface opposite that of the drum, means tending to lift the iron from the drum, personally operable means for pressing the iron against the drum, a lateral extension on the standard above the iron, and a pair of spaced rotary carriers on said lateral extension over one of which the material passes to the drum and over the other of which it passes after leaving the drum.

1,784,201. OVEN STRUCTURE FOR ELECTRIC RANGES. GEORGE E. PICKUP, Newark, Ohio, assignor to The Wehrle Company, Newark, Ohio, a Corporation of Ohio. Filed Jan. 28, 1929. Serial No. 335,399. 3 Claims. (Cl. 219—35.)



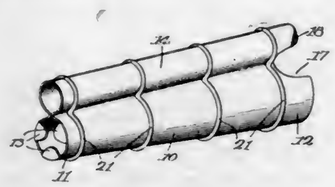
1. An electric range comprising an oven section having a bottom wall, a plate spaced a short distance above said bottom wall and forming the bottom of an oven compartment, an electric heating unit disposed in the space between the bottom wall and said plate, said plate having an opening therein through which the heating unit may be inserted and removed, a removable cover plate for said opening, said bottom plate having apertures therein adjacent the edges of said opening, and means positioned to prevent the radiant heat from striking the plate forming the bottom of the oven compartment.

1,784,202. STONE SPREADER. DAVID M. RENTON, EVERETT N. LONG, Jr., and ANSON E. MURPHY, Avalon, Calif., assignors to Santa Catalina Island Company, Avalon, Calif., a Corporation of California. Filed Aug. 13, 1927. Serial No. 212,764. 2 Claims. (Cl. 275—2.)



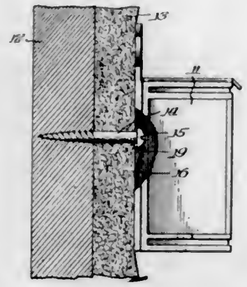
1. A spreader attachment for a vehicle dump body comprising an elongated box-like receptacle mounted at the rear of said body and having covered end portions extending beyond the sides thereof, the front wall of said receptacle being reduced in height intermediate its ends to provide a recess embracing the rear end of said vehicle body, and a movable wall section extending longitudinally of said receptacle below the level of the body, and means for adjusting said wall section to form a discharge slot adjacent the bottom rear edge of said receptacle.

1,784,203. HOLDER FOR SOCKET-WRENCH SETS. HAROLD G. RICE, Chicago, Ill. Filed Nov. 5, 1926. Serial No. 146,360. 9 Claims. (Cl. 206—16.)



2. A holder for holding a set of sockets in a row and a bent end handle member alongside the row, comprising an elongated socket receiving means adapted to receive a set of sockets in a row, said receiving means having stop means at one end for preventing movement of the sockets therethrough, and an opening adjacent the other end for permitting insertion or removal of the sockets therefrom, and means for releasably holding a handle member alongside the row of sockets with a portion of the handle member extending over said opening so as to lock the sockets in the receiving means.

1,784,204. SECURING MEANS. GORDON E. ROEDDING, Grand Rapids, Mich., assignor to Doerr Manufacturing Company, Grand Rapids, Mich., a Corporation of Michigan. Filed May 15, 1924. Serial No. 713,633. 1 Claim. (Cl. 248—30.)

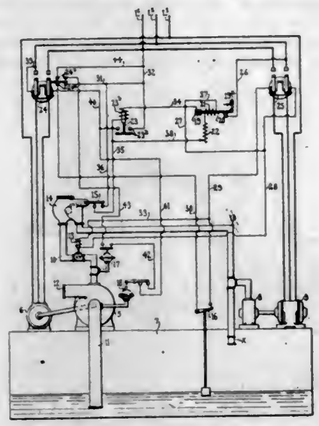


A securing device for securing an article to a resilient surface comprising a securing member fixed to the support of the resilient surface, said member extending through the resilient surface and having an enlarged head with a flat under face lying against said surface, a wall of the article to be secured having an elongated slot formed therein, an enlarged portion of the slot being of a size to permit entry of the head of the securing member, a connected portion of the slot being less in width than said head, and sloping lugs formed from material cut from said slot extending inwardly of said wall substantially at right angles thereto adjacent a part of the narrow portion of the slot, the sloping lugs serving to engage the flat under face of the head to compress the resilient material and permit engagement of the parts by a relative linear movement, said lugs ending abruptly upon the end away from the enlarged portion of the slot.

1,784,205. CONTROLLER FOR POWER-DRIVEN PUMPS. EDWIN W. SEEGER, South Milwaukee, Wis., assignor, by mesne assignments, to Cutler-Hammer, Inc., a Corporation of Delaware. Filed Jan. 18, 1926. Serial No. 82,076. 3 Claims. (Cl. 103—25.)

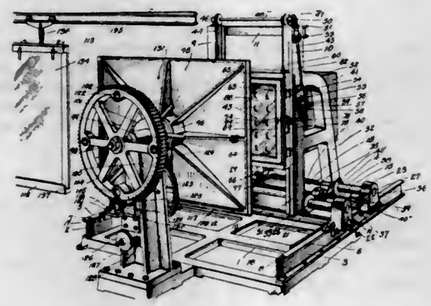
1. In a controller for power driven pumps, the combination with automatic starting means, of electro-thermally

responsive means subject to control by said starting means and operable automatically to terminate the action



of said starting means following a predetermined number of operations of the latter wherein the pump fails to perform its normal functions.

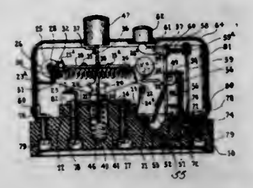
1,784,206. PHOTOGRAPHIC PROCESS PRINTING MACHINE. WILLIAM J. SNYDER, Fort Leavenworth, Kans. Filed Oct. 22, 1924. Serial No. 745,102. 8 Claims. (Cl. 95—73.)



8. A photographic process printing machine comprising two main members, one of the members consisting of a light box and a negative holder carried by the light box, the other main member consisting of a sensitized sheet holder having a plurality of portions registrable individually with the negative holder, means for moving the light box horizontally and vertically to a selected position with respect to the sensitized sheet holder, and means for rotating the sensitized sheet holder, said sheet holder being rotatable to position a selected portion in registry with the moved light box and negative holder.

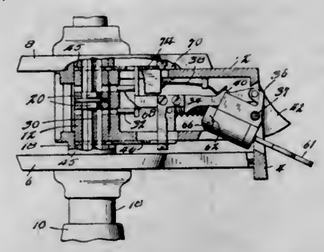
1,784,207. ELECTRIC SNAP-SWITCH MECHANISM. WILLIAM C. STEVENS and GEORGE J. MEUER, Milwaukee, Wis., assignors, by mesne assignments, to Cutler-Hammer, Inc., a Corporation of Delaware. Filed Sept. 29, 1928. Serial No. 309,299. 18 Claims. (Cl. 200—116.)

14. In snap switch mechanism, the combination with two sets of stationary contacts arranged in different horizontal planes, of a pair of vertically oscillatable bridging contactors adapted to cooperate with said sets of stationary contacts respectively, the pivots of said contactors being horizontally alined, a reciprocating actuator, spring means connected to said actuator and to the free ends of said contactors respectively whereby said contactors may be moved jointly to opposite extreme positions with a snap action, means for biasing said actuator to cause movement of said contactors jointly to their upper extreme positions respectively wherein one of said contactors engages its stationary contacts and the other contactor is out of engagement with its stationary contacts, said actuator upon movement thereof against said bias being adapted to simultaneously effect disengagement of said first mentioned contactor and engagement of said second mentioned



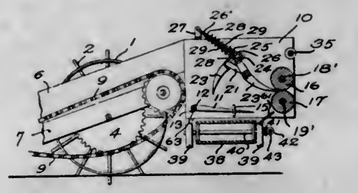
contactor, an automatically operable latch for holding said second mentioned contactor in engagement while permitting reengagement of said first mentioned contactor under the influence of said actuator, and a bimetallic electro-thermally responsive element to be connected in circuit in series with said stationary contacts and said contactors for effecting release of said latch under predetermined current conditions.

1,784,208. LOCK. ERNEST L. TRICH, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut. Filed Mar. 15, 1929. Serial No. 347,331. 8 Claims. (Cl. 70—46.)



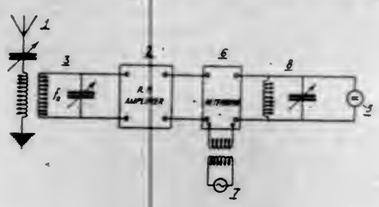
2. A lock having, in combination, a frame, a knob having a shank, a member in engagement with said shank for holding the shank from outward movement but permitting turning movement thereof and adapted to be retracted from said frame to permit the knob and shank to be removed, and key-controllable means for thus retracting said member.

1,784,209. POTATO GATHERER FOR POTATO DIGGERS. HENRY TIMM, Saxeville, Wis. Filed Aug. 18, 1926. Serial No. 129,927. 12 Claims. (Cl. 130—30.)



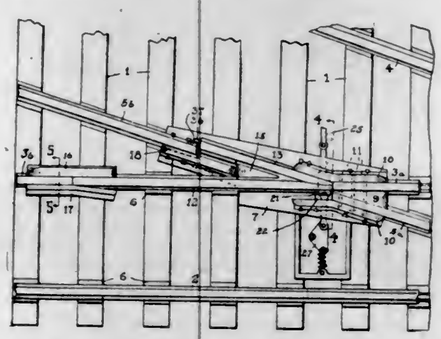
8. In a potato digger and conveyor for receiving and conveying the potatoes and their vines in one direction, vine picking means for separating the vines from the free potatoes and actuating them in another direction, in combination with means for receiving such vines and separating attached potatoes therefrom.

1,784,210. RADIO RECEIVING SYSTEM. ARTHUR F. VAN DYCK, Yonkers, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware. Filed Sept. 15, 1926. Serial No. 135,497. 1 Claim. (Cl. 250—22.)



Apparatus for reproducing sound from a modulated radio frequency signal comprising a circuit energized by said signal, a local source of energy, amplifying and detecting means for obtaining an amplified superaudible beat frequency from said signal and the energy from said local source, a tuned circuit connected to the output of said amplifying and detecting means for obtaining a resonance potential rise, said tuned circuit consisting of an inductive reactance element and a capacitive reactance element connected in parallel, and an electrostatic loudspeaker connected across the terminals of one of the reactance elements whereby the maximum potential obtained by said resonance potential rise is applied across the electrostatic loudspeaker terminals and the electrostatic loudspeaker functions as a detector to reproduce sound from said superaudible beat frequency.

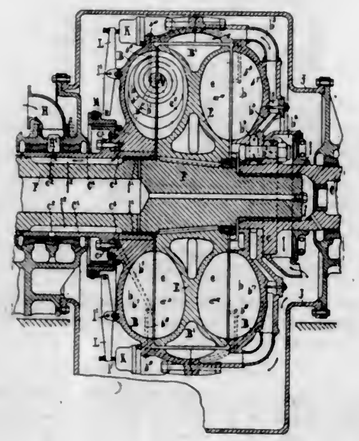
1,784,211. RAILWAY-CROSSOVER FROG CONSTRUCTION. ANTHONY L. VISSAT, Jeannette, Pa. Filed Dec. 24, 1927. Serial No. 242,453. 2 Claims. (Cl. 246—382.)



1. In a railway cross-over frog structure, the combination with a pair of converging rail ends, of a frog point comprised of converging leg-rails and arranged to be moved into registration with either of said rail ends, and means for preventing the point from tipping upwardly when a wheel engages the outer end of one of said leg rails, said means comprising a bar secured to and extending past the end of the leg-rail and bearing down on the base of the track rail when said leg-rail and track rail are in registration.

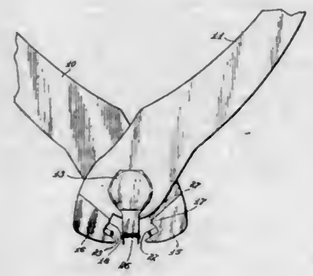
1,784,212. HYDRAULIC CLUTCH. GEORGE HENRY WALKER, Worcester, England, assignor to Heenan & Froude Limited, Worcester, England. Filed Jan. 9, 1929, Serial No. 331,358, and in Great Britain Jan. 20, 1928. 2 Claims. (Cl. 192—58.)

1. A hydraulic clutch of the type referred to comprising the combination with a rotor of a casing adapted to rotate, cups in the rotor, and co-acting cups in the casing, in both of which cups the liquid circulates, vanes separating the adjacent cups of the rotor, vanes separating the adjacent cups of the casing, passages formed in these vanes through which fresh cooled liquid enters and is conveyed to the centres of the cups where the pressure is at a minimum owing to the vortices set up therein, outlet



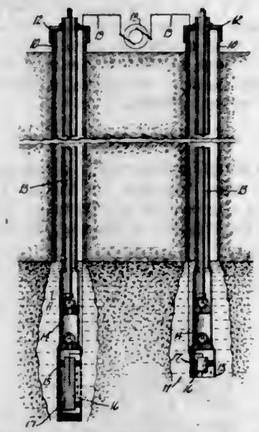
passages near the periphery of the casing through which the heated liquid escapes and a quick acting outlet valve which normally remains closed but which can be suddenly opened to put the zone of high pressure in the casing into communication with the exterior and allow the liquid in the clutch casing to escape rapidly.

1,784,213. SEALING TOOL. RUDOLPH E. WESTPHAL, Chicago, Ill., assignor, by mesne assignments, to Signode Steel Strapping Company, a Corporation of Delaware. Filed Aug. 22, 1927. Serial No. 214,509. 6 Claims. (Cl. 81—9.1.)



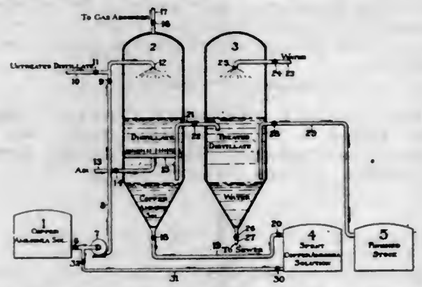
1. A sealing tool comprising a pair of pivotally connected levers having confronting deforming jaws on one side of the pivot, said jaws each having a projecting lip overhanging the work engaging deforming surfaces of the jaw and a notch for receiving the lip of the other jaw so that when the jaws are closed the lips extend beyond the plane of the center of the pivot.

1,784,214. METHOD OF RECOVERING AND INCREASING THE PRODUCTION OF OIL. PAUL E. WORKMAN, Dallas, Tex. Filed Oct. 19, 1928. Serial No. 313,458. 7 Claims. (Cl. 166—21.)



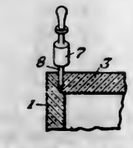
1. The method of recovering oil consisting in introducing into a well an electrode insulated from ground and immersed in the water present in the well, and feeding to said electrode a current of sufficient strength to release elements of the water by electrolysis.

1,784,215. METHOD OF TREATING PETROLEUM OILS CONTAINING SULPHUR. GEORGE J. ZISER, Los Angeles, and JAMES H. OSMER, El Segundo, Calif., assignors, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif., a Corporation of Delaware. Filed Jan. 9, 1926. Serial No. 80,156. 4 Claims. (Cl. 196—30.)



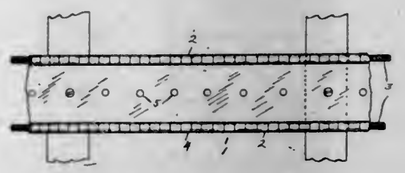
1. A method of treating petroleum oil which comprises treating the oil with an aqueous solution of a copper salt containing dissolved oxygen.

1,784,216. PROCESS AND MEANS FOR SEALING STORAGE BATTERIES. HERBERT H. ALDRICH and JOHN L. RUPP, Wilkinsburg, Pa., assignors, by mesne assignments, to Wubco Battery Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Apr. 5, 1927, Serial No. 181,127. Renewed Apr. 11, 1930. 6 Claims. (Cl. 136—170.)



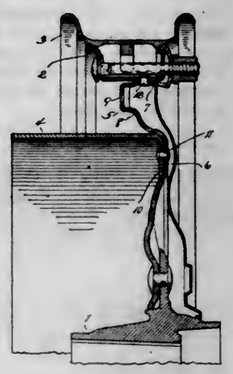
1. The process of closing a container composed of a bituminous composition which consists in applying a cover of the same material to the container, heating the adjoining faces of the cover and container until such faces flow together, and then ironing the joint to form a homogeneous union.

1,784,217. ELECTRIC WIRE CASING. JAMES M. BERRY, Detroit, Mich. Filed Dec. 31, 1923. Serial No. 683,667. 5 Claims. (Cl. 247—37.)



1. In an electric wire structure, a casing for pliable electric wires, said casing including a strip of material of a readily pliable character and having its opposite longitudinally extending edges transversely slit to form longitudinally extending series of tongues for increasing the flexible or pliable character of the casing, each series of tongues adapted to be return-bent to completely enclose an electric wire.

1,784,218. METHOD OF FORMING VEHICLE WHEEL DISKS. WILLIAM N. BOOTH, Detroit, Mich., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich., a Corporation of New York. Filed May 18, 1925. Serial No. 31,147. 4 Claims. (Cl. 29—159.)

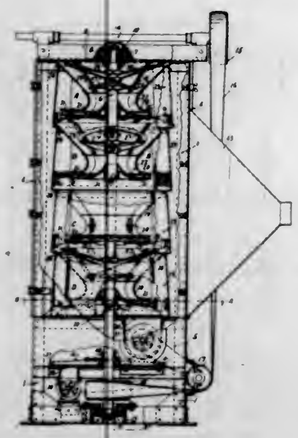


1. The method of forming a vehicle wheel disk, which includes hooping a metal blank, welding its ends to form an annulus, forming an outwardly extending depression at the welded joint, rolling the annulus to fashion the same into a plurality of corresponding forms, severing the annulus intermediate the forms into a plurality of corresponding sections, and fashioning the sections into disks.

1,784,219. CLEANING APPARATUS FOR COTTONSEED. EDWARD M. BRENNAN, Springfield, Ohio, assignor to The Bauer Brothers Company, Springfield, Ohio, a Corporation of Ohio. Filed Sept. 29, 1927. Serial No. 222,901. 3 Claims. (Cl. 209—306.)

1. In a separating apparatus of the character described, a stationary hopper, a horizontally-arranged revoluble disk beneath said hopper, the lower portion of said hopper being so shaped as to form with said disk an annular dis-

charge passage with unbroken walls, the area of the inner portion of which is considerably larger than the

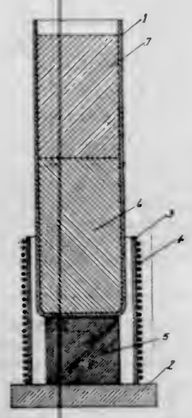


area of the outer portion with the area between said inner and outer portions gradually decreasing, and a screen surrounding the discharge end of said passage.

1,784,220. COOLING COMPOUND AND LUBRICANT AND PROCESS OF MANUFACTURING SAME. FRANK C. BROEMAN, Cincinnati, Ohio, assignor to National Products-Supply Company, Ashland, Ky., a Corporation of West Virginia. Filed Mar. 28, 1928. Serial No. 265,525. 1 Claim. (Cl. 87—9.)

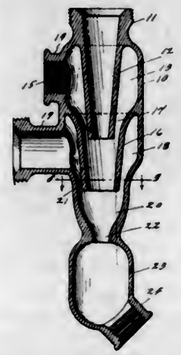
A cooling compound and lubricant consisting substantially of the following ingredients:—100 lbs. of potash vegetable oil soap containing sixty per cent of water, 30 lbs. of water, 3 lbs. of neat's foot oil, 3 lbs. of graphite mixed with three pounds of cocoanut oil and six and one quarter pounds of stearic acid soap.

1,784,221. ANNEALING. JOHN R. CAIN, Washington, D. C., assignor to The Richardson Company, Lockland, Ohio, a Corporation of Ohio. Filed Aug. 2, 1927. Serial No. 210,131. 1 Claim. (Cl. 148—1.)



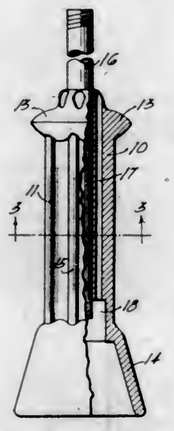
A heat treating process comprising maintaining a temperature gradient in a liquid annealing medium ranging from a temperature at least as high as that necessary to effect the desired heat treatment to a temperature at least as low as will permit withdrawal of a heat treated article to the air without danger of the formation of scale or oxide thereon, advancing an article from a cooler portion of said liquid medium to a heat treating zone therein, holding said article in said zone for a length of time necessary to effect a desired heat treatment, then withdrawing said article from said zone through a cooler portion of said liquid, said liquid medium comprising a plurality of immiscible heat resistant liquids.

1,784,222. SUCTION ATOMIZER. CHARLES S. CRICKMER, Dallas, Tex., assignor to Tridex Corporation, Dallas, Tex., a Corporation of Delaware. Filed May 5, 1928. Serial No. 275,355. 4 Claims. (Cl. 261—76.)



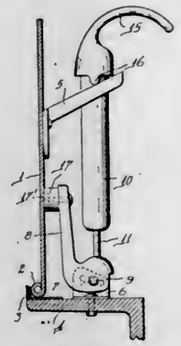
1. In a suction atomizer, a hollow body having chambers therein, separate inlets to said chambers, jets within said chambers of said body, one of said jets having a separate inlet free from said chambers, an enclosed expansion bowl having a restricted inlet receiving the combined discharge of the chambers and jets, and a larger outlet from the bowl provided with a coupling member for a conductor.

1,784,223. HANDLE. CHARLES S. CRICKMER, Dallas, Tex., assignor to Tridex Corporation, Dallas, Tex., a Corporation of Delaware. Filed Nov. 4, 1929. Serial No. 404,857. 6 Claims. (Cl. 299—112.)



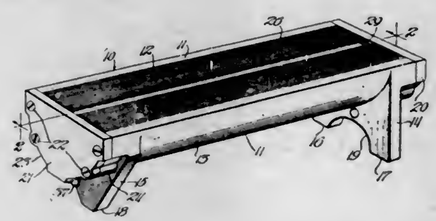
1. A flexible handle including an elongated body having an embedded pipe, said pipe having screw-threaded ends, the body having an opening for exposing one of the screw-threaded ends for coupling.

1,784,224. HOOD CLAMP. NORMAN W. CUMMINS, Louisville, Ky., assignor to The Bade-Cummins Mfg. Company, Louisville, Ky., a Corporation of Delaware. Filed Feb. 25, 1929. Serial No. 342,329. 5 Claims. (Cl. 292—114.)



1. A hood clamp comprising a spring locking device, a pair of guides for said member adapted for attachment respectively to a movable hood wall and a fixed base member adjacent such wall, said guides converging towards said hood, said locking member being adapted to slide along the guide for attachment to the hood wall, and means carried by said locking device and movable along the other guide for engaging the hood.

1,784,225. CORE BOX. PATRICK F. DEVANY, Chicago, Ill. Filed Apr. 4, 1929. Serial No. 352,378. 4 Claims. (Cl. 22—13.)



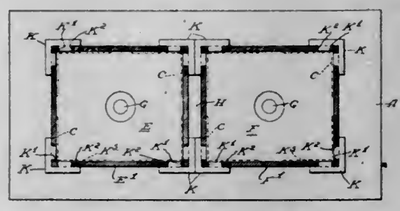
1. A core box comprising a cast metal base member having an inner core molding surface, a multiplicity of sheet metal members, each having an inner core molding surface, and each having an outer surface complementary to the core molding surface of the adjacent sheet metal member, the outer edges of all of said sheet metal members terminating substantially flush with the upper edge of the core box, members adapted to be secured to said base member and to form end walls for a mold provided by any of said sheet metal members, and means for securing said sheet metal members in position, comprising a threaded member passing through said sheet metal members and said base members, said base member being provided with legs for supporting said core box and bolts in spaced relation to a supporting member in any adjusted position of said bolts.

1,784,226. MOTOR-CONTROL SWITCH. WILLIAM S. EDSALL, Brookline, Mass., assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass., a Corporation of Massachusetts. Filed May 29, 1928. Serial No. 281,425. 6 Claims. (Cl. 175—294.)

1. An electric switch comprising sets of contact members each set comprising two contact members, the contact members of one set being insulated from each other and adapted to be connected in separate sections of a circuit, the contact members of the other set being electrically connected, means effecting the simultaneous separation of the sets of contact members, and means including a resistor connecting said electrically connected set of contact members to one of said electrically insulated contact members.

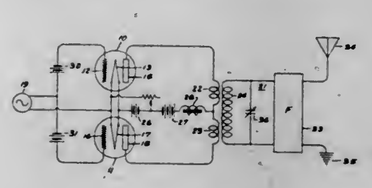


1,784,227. SYSTEM FOR MOUNTING STEREOSCOPIC VIEWS. ALBERT W. ENGEL, Chicago, Ill. Filed June 2, 1928. Serial No. 282,468. 5 Claims. (Cl. 88—29.)



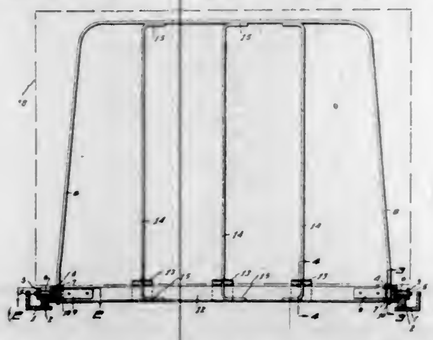
1. A mount for stereoscopic prints having two rectangular openings therein, each opening approximating the size of picture area of one print, said openings being spaced apart a distance for proper focusing to the human eyes through a stereoscope, said prints being secured to the back side of the mount with the picture area thereof, registering with the openings.

1,784,228. FREQUENCY CONVERTER. PAUL D. FLEHR, San Francisco, Calif. Filed July 20, 1926. Serial No. 123,695. 6 Claims. (Cl. 175—363.)



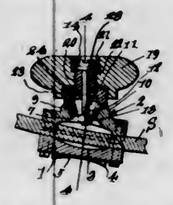
1. A device for converting pulsating current of one frequency to pulsating current of another frequency comprising at least two electron relays having different characteristic curves, means for connecting their inputs to a common exciting source of current and means for coupling their outputs to differentially affect a work circuit.

1,784,229. CONVEYER RACK. VERNIE A. FOX, Detroit, Mich., assignor to Young Brothers Company, Detroit, Mich., a Corporation of Michigan. Filed June 22, 1928. Serial No. 287,529. 5 Claims. (Cl. 198—134.)



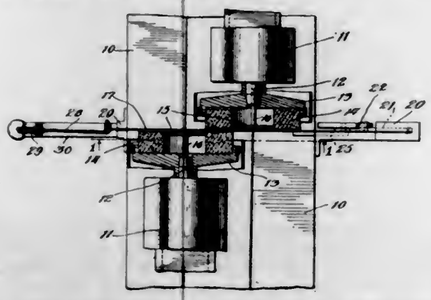
1. In a conveyer, opposed channel members, a yoke having its ends passed through the flanges of said members, straps secured to said ends between said flanges, and a base bar connecting said straps.

1,784,230. HAND-GRIP ATTACHMENT FOR STEERING WHEELS. JOHN C. FREEMAN, Jeffersonville, Ind. Filed Dec. 4, 1928. Serial No. 323,622. 3 Claims. (Cl. 74—33.)



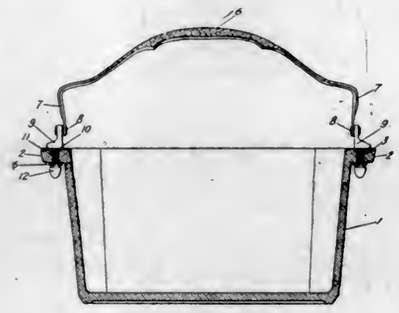
1. A hand grip attachment for automobile steering wheels comprising an attaching unit embodying clamping members for disposal against the upper and under sides of a spoke of the wheel, means connecting the members for clamping engagement with the spoke, a member disposed above the upper clamping member of the attaching unit, the said upper member of the attaching unit and the last mentioned member having contacting arcuate surfaces, means connecting the said members to provide for adjustment of the second mentioned member, and a hand knob upon the second mentioned member.

1,784,231. GRINDING MACHINE. FREDERIC E. GARDNER, Beloit, Wis. Filed Mar. 24, 1924. Serial No. 701,357. 6 Claims. (Cl. 51—124.)



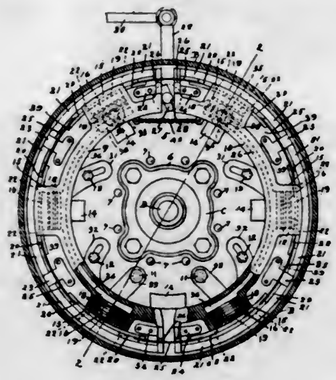
1. A grinding machine comprising, in combination, a base, a pair of annular grinding disks disposed in parallel relation and positioned to overlap to the extent of their radial depth, a relatively thin wide flexible work carrier mounted for reciprocation between said disks with the width parallel to the grinding faces of said disk, said work carrier being provided with an aperture for supporting a work blank, power means engaging one end of said carrier for periodically drawing the carrier outwardly in one direction, and yielding means engaging the opposite end of said carrier to oppose the action of said first mentioned means.

1,784,232. ICE RECEPTACLE. EDGAR WILSON HEISEY, Newark, Ohio, assignor to A. H. Heisey & Company, Newark, Ohio, a partnership. Filed Sept. 8, 1928. Serial No. 304,829. 4 Claims. (Cl. 215—100.)



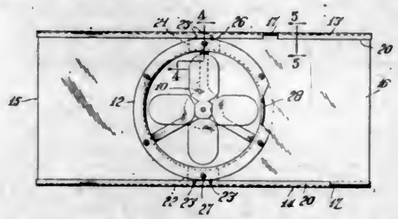
1. An ice receptacle comprising a glass container with lugs integrally formed thereon and having flared apertures therein and a handle structure comprising bolts adapted to fit in said apertures, said bolts having flared portions.

1,784,233. VEHICLE AIR BRAKE. FRANCIS LEROY HORSPOOL, Salt Lake City, Utah. Filed Oct. 26, 1928. Serial No. 315,192. 5 Claims. (Cl. 188—106.)



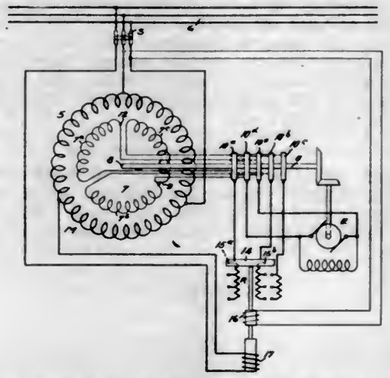
1. In a vehicle air brake comprising an emergency brake, a brake plate secured to the vehicle, expanding brake jaws to be operated on said brake plate, cylinders extending from each of said jaws, each of said cylinders having a piston therein, brake shoes placed on the outer end of said pistons, means for securing said brake shoes to said pistons, said jaws having an air port therein through which air passes to each of said cylinders to operate said pistons so they will place said brake shoes against a brake drum.

1,784,234. VENTILATOR. HERMAN C. HUEGLIN, Chicago, Ill., assignor to Federal Merchandise Co., Chicago, Ill., a Corporation of Illinois. Filed Oct. 31, 1929. Serial No. 403,706. 14 Claims. (Cl. 98—94.)



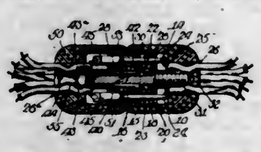
1. In a ventilating panel, a fan having a circular mounting ring, a pair of mounting plates diametrically mounted on said ring, a pair of channel members fitted over said plates and attached thereto, said members being parallel to each other and tangential to said ring, and panel members supported in said channels and butted against said ring.

1,784,235. INDUCTION SYNCHRONOUS MOTOR SYSTEM. FRASER JEFFREY, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed May 10, 1928. Serial No. 276,527. 13 Claims. (Cl. 172—280.)



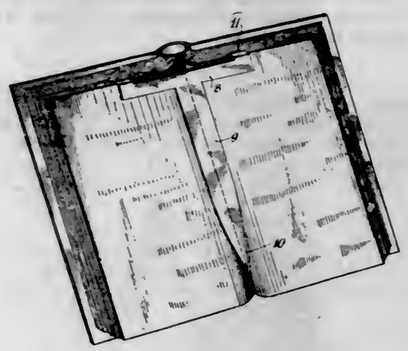
1. In combination, a dynamo-electric machine adapted for operation as both an alternating current induction motor and synchronous motor and having its secondary or exciting element provided with a polyphase winding having the phase winding sections thereof connected to a neutral point, a direct current exciter, and means for connecting said exciter in circuit with a plurality of phases of said secondary winding with the latter in series with each other and with said exciter at said neutral point during the starting of said motor as an induction motor and for rendering one of the phases of said secondary winding inactive upon the attainment by said motor of an operating condition substantially corresponding to operation as a synchronous motor.

1,784,236. ELECTRICAL CONNECTION DEVICE. HOWARD B. JONES, Evanston, Ill. Filed Mar. 2, 1923. Serial No. 622,241. 9 Claims. (Cl. 173—332.)



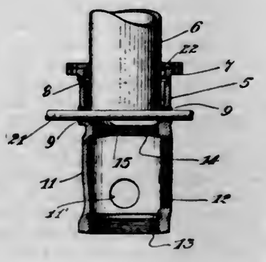
1. An electrical connection plug of the character described comprising in combination a housing member of insulating material having an open end adapted to receive a socket member, a supporting member readily removably positioned within said housing member and at a materially great distance from the open end thereof, said supporting member having a plurality of substantially parallel apertures, a contact stem positioned loosely in and extending through each of said apertures and directed toward said open end of said housing member, the ends of said stems being on the inner side of said supporting member, said housing member having means adapted to hold said stems against inward longitudinal movement when the device is in assembled relation.

1,784,237. HOLDER. ERNEST F. KAISER, New York, N. Y. Filed Apr. 8, 1929. Serial No. 353,405. 4 Claims. (Cl. 281—42.)



1. A holder as characterized comprising a cross head and a blade, said cross head and blade being disposed in perpendicular relation each to the other, and means disposed adjacent the terminals of the cross head offset from the plane thereof for engaging in grouped relation, the leaves of a book, and means provided on said blade for cutting objects such as envelopes or other paper articles.

1,784,238. COMBINED TEST T AND EXPANSION FITTING FOR DRAINAGE AND SOIL PIPES. EDWARD KENNEDY, New York, N. Y., assignor to The Kennedy-Steiner Corporation, Bronx County, N. Y. Filed Dec. 29, 1927. Serial No. 243,272. 1 Claim. (Cl. 285—115.)



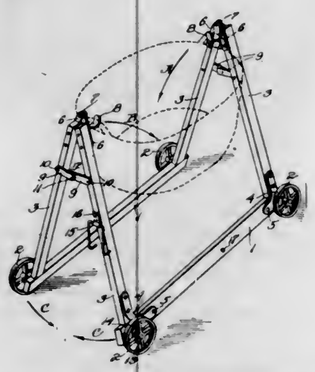
A method of forming a packed pipe joint of the one piece bell and spigot and test fitting type to provide for limited expansion, comprising forming apertures in the side walls of the bell, inserting a rod therein, introducing the spigot end of a pipe into the bell until it seats on the rod, packing the space between the bell and the spigot, removing the rod, and closing the apertures with screw threaded plugs.

1,784,239. WRIST-WATCH STRAP. IRVING R. LEDERER, Providence, R. I. Filed May 15, 1928. Serial No. 277,905. 4 Claims. (Cl. 224—4.)



1. A wrist watch strap comprising two members each formed of a length of flexible material folded upon itself to provide a loop and two contiguous ends, an attaching element connected to each loop for detachably connecting the members to the bails of a watch or the like, a loop on each member for holding the sides of the member in adjacency, a clasp for each member including a catch for independently securing each of the contiguous free ends of the member thereto, and cooperating releasable locking elements on the two clasps.

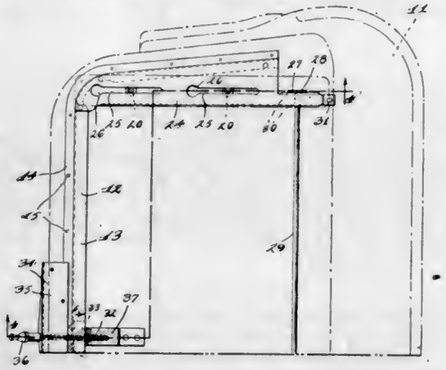
1,784,240. COLLAPSIBLE BASKET SUPPORT. WALTER A. LYNDS, Boston, Mass. Filed Dec. 12, 1927, Serial No. 239,353. Renewed Apr. 24, 1930. 3 Claims. (Cl. 280—36.)



1. A truck of the character described comprising two side frames each consisting of a base bar and two posts one adjacent each end thereof, each post being provided at its lower end with a rigid laterally extending arm pivotally connected with its base bar with the laterally extending arm of one post made longer than the laterally extending arm of the other and the difference in the lengths of said arms being approximately equal to the width of the latter post; means pivotally connecting the free ends of the pair of posts at each end of the truck; means adjacent the pivotally connected free ends of said posts and upon the inner sides of the latter for supporting a clothes basket or the like so that the latter holds said posts in upstanding positions against inward pivotal movement on the pivotal connections between said arms and said base bars, and means for holding said side frames in extended relationship with provision for folding the two side frames together when desired, the lower ends of said posts abutting said base bars to hold said posts against outward pivotal movement on said last mentioned pivotal connections when said posts are in their upstanding positions.

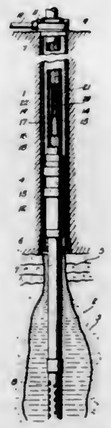
1,784,241. SEAT ASSEMBLY. WILLIAM MARSHALL and LLEWELLYN S. WOODHULL, Detroit, Mich., assignors to Briggs Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 31, 1928. Serial No. 329,426. 5 Claims. (Cl. 155—14.)

1. In combination, a supporting member, a seat member positioned upon the supporting member, means establishing a sliding movement between the seat and support including an element projecting from one of said members and extending through an elongated slot formed in the other of said members, said element having an enlarged head portion insertable through an enlarged portion of the slot and normally preventing relative tilting movement between the said members, and means for adjusting said members relative to each other



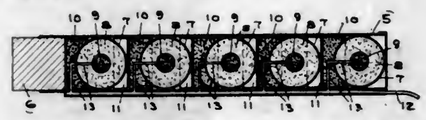
including a nut carried by one of said members and a screw carried by the other of said members and engageable with said nut, the length of said screw and configuration of the slot being so determined that when the screw is disengaged from the nut the enlarged head portion aforesaid will assume a position opposite the enlarged portion of the slot permitting said members to be readily detached from each other.

1,784,242. APPARATUS FOR INDUCING FLOW OF OIL FROM WELLS. WENDELL A. MELTON, Tulsa, Okla., assignor to The J. A. Hull Co., Tulsa, Okla. Filed Sept. 25, 1926. Serial No. 137,741. 2 Claims. (Cl. 103—232.)



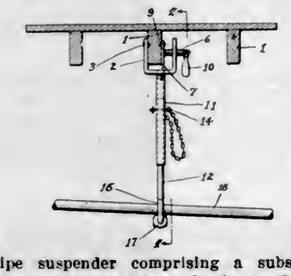
1. In combination with well casing, sectional tubing, two lower tubing sections having interior screw threads at their adjacent ends, said ends being in abutment, a nozzle having an exteriorly threaded body coupling said tubing sections to enclose the nozzle by the tubing and having an upwardly directed reducing nipple, the upper part of said tubing sections having upwardly inclined ports opening inwardly about the nipple, a packer between the tubing and casing below the ports, means for sealing the top of the casing, and means for delivering artificial pressure medium to the space between the tubing and casing above the packer.

1,784,243. SPRAYING DEVICE. LLOYD A. MOFFET, Fremont, Nebr. Filed Apr. 11, 1929. Serial No. 354,402. 3 Claims. (Cl. 43—124.)



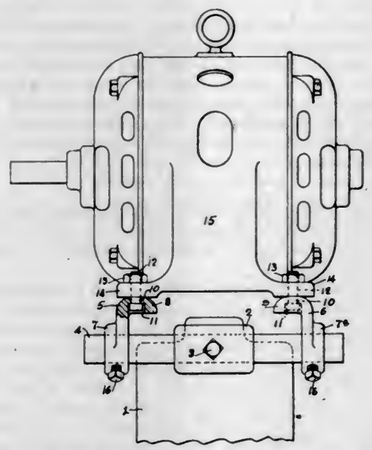
1. An improved spraying device comprising a tube, a partition in said tube, a projectile containing spraying material mounted in said tube and being separate and distinct from said partition, and a charge of explosive propulsive material mounted between said projectile and said partition.

1,784,244. ADJUSTABLE PIPE SUSPENDER. JOHN R. MORRIS, Philadelphia, Pa. Filed Sept. 22, 1928. Serial No. 307,610. 2 Claims. (Cl. 248—32.)



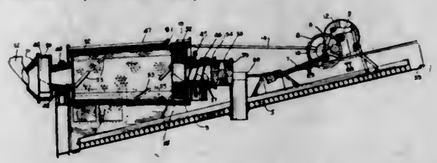
1. A pipe suspender comprising a substantially U-shaped body member, said body having a threaded opening in one side and in the bottom thereof, a plurality of inwardly extending beam piercing members in the opposite side of said body, a threaded shaft engaging said threaded opening in said body, a plate pivotally mounted on the inner end of said shaft, a plurality of beam piercing members mounted on said plate and opposing the piercing members of said body, a handle pivotally secured to the outer end of said shaft, an adjustable arm depending from said body, a lateral arm carried by said depending arm and rollers on said lateral arm.

1,784,245. PUMP-MOTOR SUPPORT. PHILIP A. MYERS, Ashland, Ohio, assignor to The F. E. Myers & Brother Company, Ashland, Ohio, a Corporation of Ohio. Filed Feb. 23, 1928. Serial No. 256,167. 4 Claims. (Cl. 248—15.)



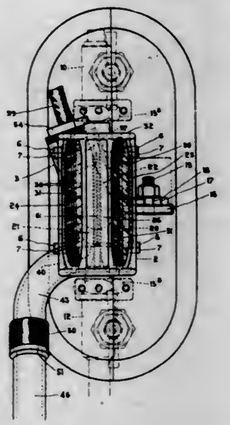
1. The combination with a deep well working head, having a bearing, of a shaft secured therein, and a pair of tracks, adapted to support a motor, positioned on said shaft laterally of said bearing at one end, another shaft at the other end of the tracks, and an altitude and supporting screw mounted between the working head and such latter shaft and adapted to be rotated to raise or lower that end of the motor support.

1,784,246. CLASSIFYING AND WASHING APPARATUS. HARRY W. NEWTON, Denver, Colo., assignor to The Dorr Company, New York, N. Y., a Corporation of Delaware. Filed July 9, 1925. Serial No. 42,338. 7 Claims. (Cl. 209—44.)



1. Apparatus for the classification of solids in liquids comprising a wet classifier, a trommel extending above the fluid in the classifier and having a passage for oversize solids at one end, means in said passage for washing the oversize solids, and means for draining wash water and undersize solids carried thereby into the classifier.

1,784,247. WATER-GAUGE GUARD. WILLIAM A. NEWMAN, Montreal, Quebec, Canada. Filed Dec. 16, 1925, Serial No. 75,843, and in Canada Oct. 9, 1926. 3 Claims. (Cl. 73—54.)

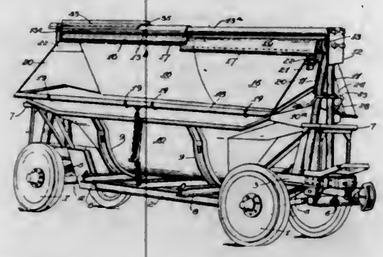


1. In a gauge glass guard and illuminator for locomotive boilers equipped with valve fittings connected to the upper and lower ends of the gauge glass, a casting adapted to be mounted behind the gauge glass and provided with a lamp containing chamber, said chamber being obliquely disposed with reference to the longitudinal axis of the gauge glass so that the upper end of the chamber is clear of the upper valve fitting, a frame having a pair of angularly related glass plates and means hingedly connecting the frame to said casting to provide a protecting enclosure for the gauge glass.

1,784,248. ROLL-TOP COVER FOR DUMPING VEHICLES. TRULY NOLEN and JOHN C. TRUEMPER, Indianapolis, Ind., assignors to Highway Trailer Company, Edgerton, Wis., a Corporation of Wisconsin. Filed Feb. 5, 1927. Serial No. 166,115. 3 Claims. (Cl. 296—98.)

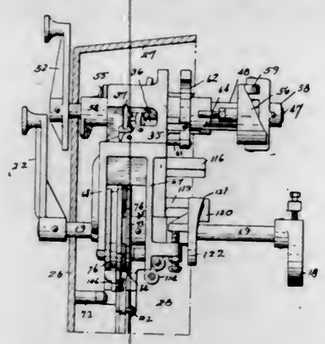
1. In a vehicle of the type described, including an upwardly open body and a frame on which it is tiltably

mounted, a plurality of rollers extending longitudinally over the body and supporting means therefor upstanding from the frame beyond the ends of the body, said supporting means including tubular upright members, flexible covers wound on the rollers respectively adapted to extend



over the body, and yielding means for turning each roller in the direction for winding up its cover, comprising a weight guided for up-and-down movement in one of the tubular uprights, and a flexible connector extending from the weight around the roller.

1,784,249. COIN-CONTROLLED MECHANISM. RAYMOND P. NORTON, Algona, Iowa, assignor of one-half to William A. Norton, Marshalltown, Iowa. Filed Sept. 21, 1926. Serial No. 136,811. 11 Claims. (Cl. 194—97.)



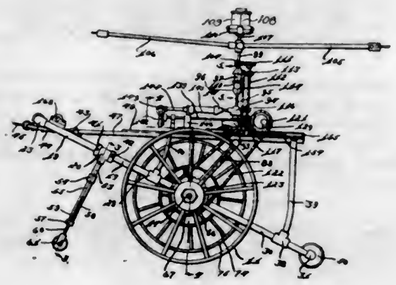
9. In a device of the class described, a coin testing mechanism, a coin guide for conveying coins to said testing mechanism and to a coin controlled mechanism, means actuated by the insertion of a coin in said guide for stopping said coin in said guide in operative relation with said testing mechanism, and means for automatically releasing said coin after the testing operation is complete.

1,784,250. COMPOSITION FOR DENTURES. STANLEY E. NOYES, Los Angeles, Calif., assignor to Harrison-Noyes Chemical Corporation, Ltd., Long Beach, Calif., a Corporation of California. Filed June 30, 1928. Serial No. 289,365. 3 Claims. (Cl. 32—4.)



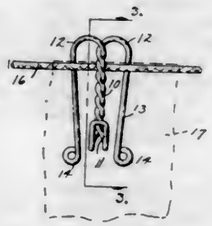
1. In a denture composed of a phenol condensation product, reenforcing strips of a textile fabric impregnated with the semi-cured product and thereafter slowly dried, the strips being positioned within said denture to withstand strains.

1,784,251. SPRINKLER. JAMES T. PLUMER, Detroit, Mich. Filed Oct. 12, 1927. Serial No. 225,625. 8 Claims. (Cl. 299—53.)



1. A sprinkler of the class described, comprising: rotatable nozzles rotatable in response to the reaction of the jets of water issuing therefrom; an auxiliary set of nozzles rockably mounted; and means operable upon the rotation of said first mentioned nozzles for effecting a rocking of said second mentioned nozzles.

1,784,252. CLOTHESPIN. AGNES H. SCARR, Atlantic, Iowa. Filed Feb. 24, 1930. Serial No. 430,932. 3 Claims. (Cl. 24—139.)

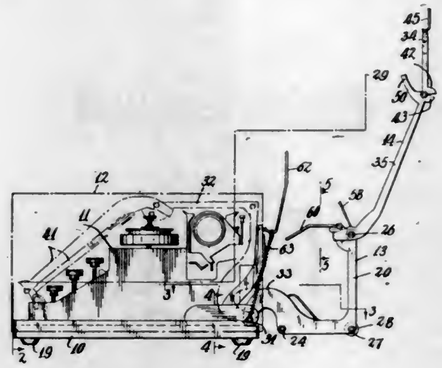


3. A clothes pin comprising a vertical body portion having arm members bent outwardly and thence downwardly from its upper end in position substantially parallel with the body portion and spaced a slight distance therefrom, the lower ends of said arms extending below the lower end of said body portion, the lower end of said body portion being bent outwardly and upwardly to form a finger hook.

1,784,253. FOLDABLE COPY STAND FOR PORTABLE TYPEWRITERS. PETER SCHANO, Union City, N. J. Filed Sept. 18, 1930. Serial No. 482,656. 12 Claims. (Cl. 120—28.)

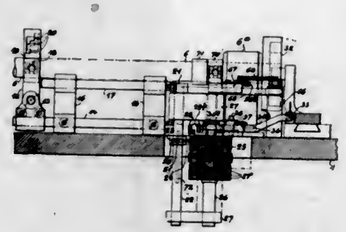
1. A foldable copy stand and cover for portable typewriters, comprising a base for supporting a portable typewriter and for connection with a cover to constitute a valise for carrying the typewriter, a bottom member pivotally connected in the rear edge of said base for moving from a vertical position covering a portion of said typewriter to a horizontal position resting on a flat element on which said base is placed, a top member pivotally connected with said bottom member, means for limiting pivoting of the top member relative to the bottom member so that the top member may assume a position rearwards

from the vertical to the horizontal position of the bottom member for supporting a copy and downwards from the



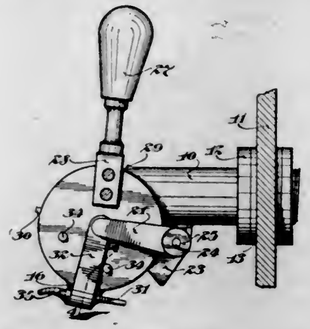
horizontal in the vertical position of the bottom member for covering the keyboard of the typewriter, and means for holding a copy on said top member.

1,784,254. MACHINE FOR MANUFACTURING METAL CHAIN MAIL. EUGEN SCHOFER, Pforzheim, Germany. Filed Oct. 24, 1927, Serial No. 228,209, and in Germany Aug. 25, 1927. 10 Claims. (Cl. 140—3.)



1. A machine for producing coloured patterned ring chain mail, comprising in combination a wire feeder in the form of a double lever oscillatable around a horizontal axle, several wire feeders on the front arm of said double lever superimposed to each other and parallel to the axis of oscillation the rear arm of said lever serving as steering lever, a link having in its upper end three funnel-shaped indentations arranged on its front side the one at the side of the other at different heights and within range of the free end of the steering arm of said double lever, a hinge piece on which the lower end of said link is oscillatably mounted, a carrying axle on which said hinge piece and said link are mounted adapted to oscillate forward and backward, a pull spring attached to said link diagonal to the right and rear, a roller on the back of said link, an eccentric on the main shaft against which said roller of said link bears, a pressure rod parallel above the carrying axle against the left end of which rod said link bears, and elements of a driving mechanism against which bear the right ends of said pressure rod or the carrying axle or both said pressure rod, when not bearing, being secured in the longitudinal direction, eccentrics on the main shaft of the machine, and stops on the carriage carrying the chain mail or on an extension of the same the opposite end parts of the driving mechanism of the pressure rod bearing against or being in engagement with or situated in the range of said eccentric and of said stops.

1,784,255. MEASURING VALVE. ALBERT SLATEN, Minneapolis, Minn. Filed July 5, 1929. Serial No. 375,973. 8 Claims. (Cl. 221—106.)



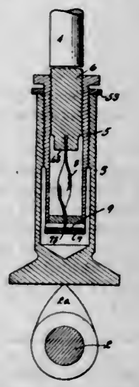
1. A device of the class described comprising a valve casing having an intake port and a discharge passage, a main valve mounted in the casing having a measuring compartment and operable to alternately bring the measuring compartment into communication with the port and the discharge passage, and a non-drip auxiliary valve for the discharge passage.

1,784,256. METHOD OF MANUFACTURING SINKERS FOR KNITTING MACHINES. HAROLD E. STOUT, West Reading, Pa. Filed Oct. 12, 1928. Serial No. 312,192. 3 Claims. (Cl. 29—148.)



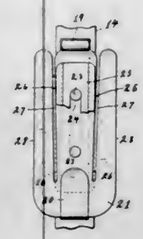
1. The method of progressively die forming a sinker plate for a knitting machine which comprises first striking up a projection on a piece of stock, then setting back said projection to form a lug, and finally setting the stock to produce sharp corners on the lug where desired and blanking out the stock to the form of a sinker plate.

1,784,257. VALVE GEARING. HORACE T. THOMAS, Lansing, Mich. Filed Mar. 6, 1929. Serial No. 344,644. 4 Claims. (Cl. 123—90.)



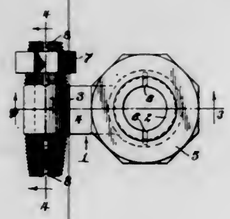
1. A pusher-rod having an axial cylindrical aperture therein, a screwthreaded rod engaging screwthreads in said aperture and a thermostat engaging said rod and said pusher-rod to turn said rod in said aperture.

1,784,258. TWINE HOLDER AND CUTTER. HENRY J. TYNAN, Ridgewood, N. J. Filed Feb. 23, 1929. Serial No. 342,101. 2 Claims. (Cl. 30—14.)



1. In a twine cutter, a base-plate having two separated vertically inclined slits open at their upper ends, bosses on said base-plate, a cover-plate similarly slitted to match said base-plate and having openings receiving said bosses, a blade arranged for engagement with said bosses and having opposite parallel cutting edges partially overlapping said slits at the lower ends of the latter, an outwardly and upwardly projecting hook attached to the lower end of said base-plate for the reception of the lower end of said cover-plate, and a spring catch at the upper end of said base-plate for detachably engaging the upper end of said cover-plate.

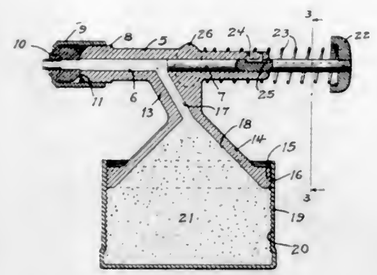
1,784,259. BATTERY-TERMINAL CONNECTER. RICHARD S. WALLENBERG, Buffalo, N. Y., assignor of one-half to Robert E. Donovan, Tonawanda, N. Y. Filed May 3, 1928. Serial No. 274,793. 1 Claim. (Cl. 173—259.)



A battery terminal connecter comprising as an integral unit a pair of tubular clamping members disposed at right angles to each other, one of said members having a continuous lower end and a split upper end, the said upper end being tapered and externally threaded for cooperation with a nut to spring the walls of the split upper end against a terminal post of a battery, the other said member having oppositely extending split ends and a continuous central portion, each of said split ends being tapered and externally threaded for cooperation with a nut to spring the walls of said split portions against a lead wire to said battery.

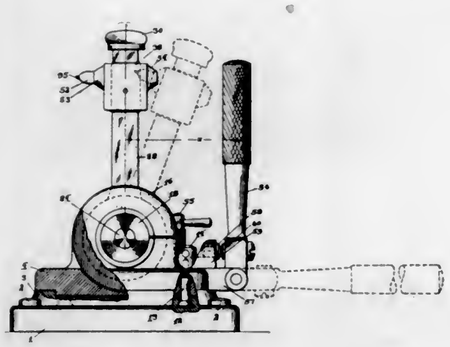
1,784,260. DOUBLE-ACTING GREASE GUN. AXEL M. WALSTROM, Minneapolis, Minn. Filed July 27, 1929. Serial No. 381,451. 3 Claims. (Cl. 221—47.)

1. A grease gun, comprising: a barrel having a bore and a plunger adapted to be reciprocated therein, an integral projection of comparatively small cross-sectional area extending a considerable distance on one side of said barrel and having a flared end portion terminating in a circular flange which is provided with a screw-threaded periphery of comparatively large diameter, a grease duct



extending through said projection to a point in front of said plunger in said bore, and a comparatively shallow grease cup having interior screw-threads adapted to operatively engage said screw-threaded periphery, substantially as described.

1,784,261. PRECISION DRESSING APPARATUS FOR GRINDING WHEELS. GEORGE WEIDNER, Rochester, N. Y. Filed June 28, 1929. Serial No. 374,510. 9 Claims. (Cl. 125—11.)

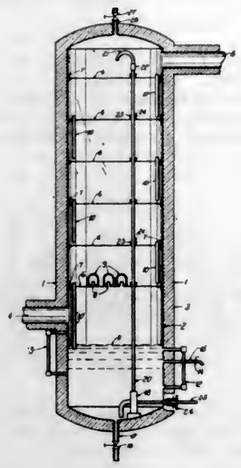


1. A dressing apparatus for grinding wheels comprising a base, a turn table mounted on said base, a guide member mounted to swing on said turn table, a diamond holder mounted to slide on said guide member and means for moving said holder along said guide member at any angular position of said guide member.

1,784,262. ALKALINE TREATMENT OF PETROLEUM VAPORS. RAYMOND C. WHEELER and PAUL W. PRUTZMAN, Los Angeles, Calif. Filed June 24, 1927. Serial No. 201,259. 5 Claims. (Cl. 196—36.)

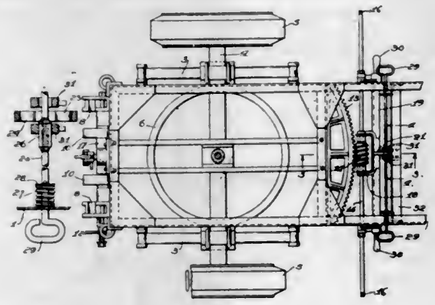
1. The continuous method of purifying petroleum vapors which consists in contacting a mixture of said vapors and steam with a solution of sodium hydrate, without substantial condensation of said petroleum vapors, thereby producing a reaction product substantially insoluble in said solution; maintaining a body of said solution in continuous contact with said vapor mixture and at such concentration as to neither evolve nor absorb

a material quantity of steam during said contact; continuously contacting said solution with said vapors by



cyclic counterflow, and withdrawing said reaction product from said body of solution without discontinuing said contact.

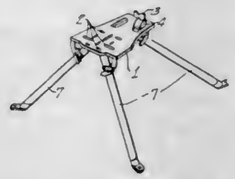
1,784,263. TRAILER-STEERING DEVICE. LEROY E. WILLIAMS, Edgerton, Wis., assignor to Highway Trailer Company, Edgerton, Wis., a Corporation of Wisconsin. Filed Jan. 3, 1927. Serial No. 158,505. 8 Claims. (Cl. 280—98.)



1. In a trailer vehicle comprising a main frame, a sub-frame swivelly connected thereto, and wheels on the sub-frame adapted for steering movement by virtue of such swivel connection, manually operable steering connections accessible for manipulation at the side of the vehicle, comprising a gear segment attached to the sub-frame, a shaft extending transversely on the main frame with a worm adapted to mesh with said segment, said shaft being mounted for movement on the main frame toward and from the sub-frame to carry the worm into or out of engagement with the segment.

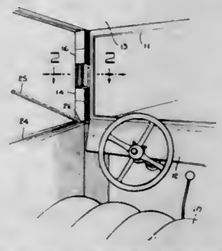
1,784,264. PIPE-VISE STAND. LEE C. YOUNG, St. Louis, Mo., assignor to Western Wire Products Co., St. Louis, Mo., a Corporation of Missouri. Filed June 13, 1928. Serial No. 284,898. 1 Claim. (Cl. 81—41.)

A pipe-vise stand including a head in the form of a plate, a supporting-leg pivotally attached at an end to the head for swingable movement, and an arcuate bracket-arm depending from the head and having a bifurcated free end presented inwardly relatively to and disposed under the head for engagement by and with the leg for re-inforcingly bracing the head, in combination with means com-



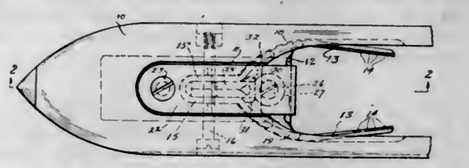
prising outwardly presented opposed lugs upon the arm, and a double hook spanning and pivoted at its shank upon the leg for detachable engagement with the lugs for releasably retaining the leg obliquely in engagement with the arm.

1,784,265. CLEAR-VISION AUTOMOBILE BODY CONSTRUCTION. HAROLD R. ZEAMANS, New York, N. Y. Filed July 24, 1926. Serial No. 124,730. 8 Claims. (Cl. 296—28.)



2. A support of the character described comprising a windshield corner post including within the intermediate length thereof a section comprising rigid members and transparent members, the whole having clear vision therethrough when viewed from spaced points corresponding to the human eyes.

1,784,266. ADJUSTABLE GRIPPER FOR SHUTTLES. WILLIAM H. BAHAN, Greenville, S. C. Filed May 4, 1929. Serial No. 360,457. 15 Claims. (Cl. 139—207.)

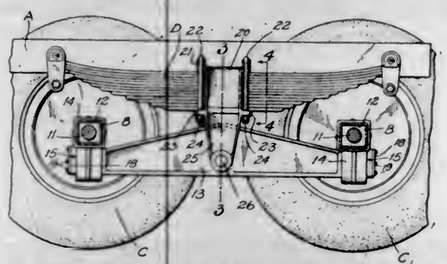


1. In a shuttle having a gripper to hold the bobbin, means for adjusting the position of the gripper into horizontal alinement with the shuttle and means for spreading the base of the gripper in said adjusted position.

1,784,267. METHOD OF MAKING HALOGENATED AROMATIC HYDROCARBON DERIVATIVES. EDGAR C. BRITTON and WILLIAM ROBERT REED, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Jan. 3, 1927. Serial No. 158,818. 10 Claims. (Cl. 260—161.)

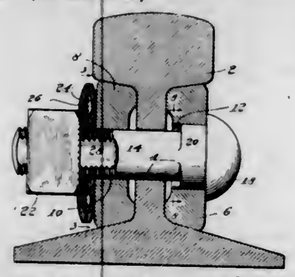
1. A process of making mono and di halogen substituted naphthalene derivatives which comprises subjecting naphthalene to the action of not more than the theoretically required proportion of a halogen in a liquid vehicle included within the group consisting of benzene, toluene, the xylenes and chlorobenzenes.

1,784,268. MOTOR VEHICLE. LAURENCE R. BUCKENDALE, Detroit, Mich., and CLARENCE A. PEIRCE, Chicago, Ill. Filed Dec. 19, 1927. Serial No. 241,079. 9 Claims. (Cl. 180—22.)



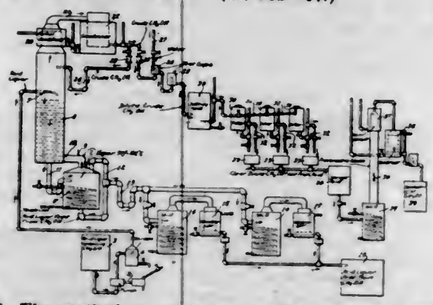
1. A motor vehicle comprising two driving axles provided with housings, a rigid torque bar extending from housing to housing, upstanding pedestals on said housings, and nonmetallic cushioning members between the ends of said torque bar and said pedestals.

1,784,269. LOCK WASHER. ROY E. CLEGG, Chicago, Ill., assignor to Clegg Lock Washer Corporation, Chicago, Ill. Filed Sept. 27, 1928. Serial No. 308,838. 2 Claims. (Cl. 151—13.)



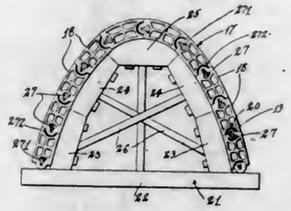
2. A nut lock for tightening means comprising a bolt and a nut, a pair of interlocking washers, one of said washers being concavo-convex and having an annular groove inwardly of the marginal edges of the washers to render the same resilient and thereby effect a yielding engagement between interlocking portions of the washers, and an integral abutment formed on one of said washers inwardly of said groove for engagement with a surface of the companion washer to present a rigid backing for a tightened nut, means for causing one washer to rotate with the nut, and means for preventing rotation of the other washer on the bolt.

1,784,270. METHOD OF REMOVING METHANOL FROM PYROLIGNEOUS ACID LIQUOR. JESSE M. COAHRAN, Colegrove, Pa. Filed Apr. 23, 1925. Serial No. 25,312. 10 Claims. (Cl. 202—67.)



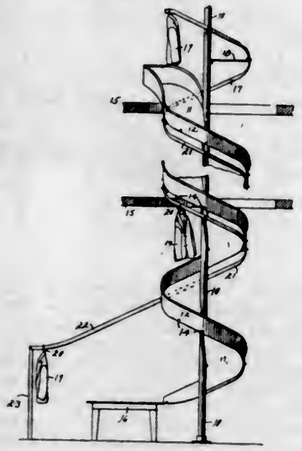
1. The method of producing purified methanol which comprises distilling off methanol from pyroligneous acid liquor and fractionating it to a concentration above substantially 27% (Tralles's scale), diluting the product with water sufficiently to cause the dissolved oils to pass out of solution, and then filtering out said oils.

1,784,271. CONDUIT AND METHOD OF CONSTRUCTING THE SAME. WALTER H. COLLINS, Los Angeles, Calif., assignor to Pacific Clay Products, Los Angeles, Calif., a Corporation of California. Filed July 13, 1927. Serial No. 205,342. 4 Claims. (Cl. 72—51.)



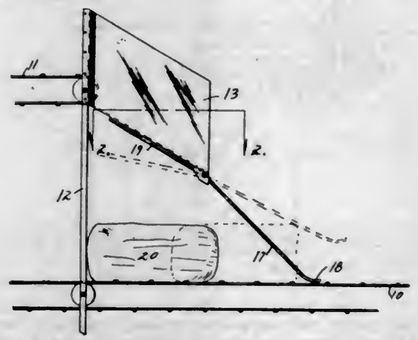
1. A conduit comprising a slab of cementitious material provided along its side margins with longitudinally extending channels, cement grout along the margins of said channels, and a series of arch units, each arch unit formed of blocks provided with tongues and grooves, the tongues and grooves of adjacent blocks interfitting, the tongues being provided with aligned openings, cement keys extending through the aligned openings to lock the adjacent blocks together, the tongues of the end blocks of each arch unit engaging in one of the channels, and the cement grout extending into the grooves in the end blocks of each arch unit.

1,784,272. SPIRAL CONVEYER DEVICE FOR PACKAGES AND COAT HANGERS. CHARLES E. CONSTABLE, Cincinnati, Ohio, assignor to The National Marking Machine Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 4, 1929. Serial No. 368,334. 2 Claims. (Cl. 193—12.)



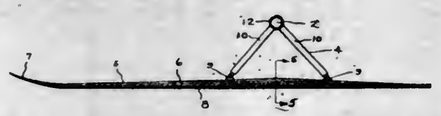
1. The combination of a spiral package conveyer and a coat hanger conveyer having its upper end spaced considerably above the upper end of the spiral package conveyer, and having its body portion supported beneath the body portion of the spiral package conveyer, and having its lower end extended radially outwardly from the spiral package conveyer, whereby articles mounted on coat hangers may move downwardly on the spiral coat hanger conveyer without interfering with the movement of the packages upon the spiral package conveyer, the upper and lower ends of the spiral coat hanger conveyer being secured to fixed supports, and the body portion of the spiral conveyer being rigidly secured to the under portion of the spiral package conveyer, whereby said conveyers mutually brace and support each other.

1,784,273. BUNDLE-TRANSFERRING DEVICE FOR CONVEYERS. CHARLES E. CONSTABLE, Cincinnati, Ohio, assignor to The National Marking Machine Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 11, 1929. Serial No. 406,348. 5 Claims. (Cl. 198—27.)



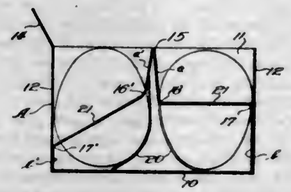
1. The combination with a conveyer of a bundle transferring device comprising a series of fingers pivotally supported above the conveyer and inclined downwardly and in the direction of travel of the conveyer and having their lower ends curved upwardly, a counterbalancing weight for each finger so arranged that the fingers normally stand in position adjacent to the conveyer, said fingers being so shaped and arranged that when moved to an elevated position they will retain a bundle thereon.

1,784,274. AIRPLANE SKID. FREDERICK SIDNEY COTTON, London, England. Filed Oct. 18, 1926. Serial No. 142,303. 10 Claims. (Cl. 244—2.)



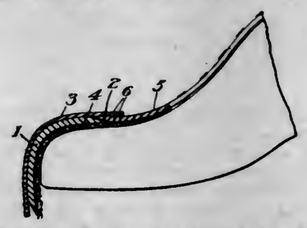
6. An airplane skid for use on snow, comprising a relatively long and narrow flexible member, the under surface of said member being transversely concave, whereby said skid may compact and compress the snow therebeneath and thus ride readily upon the surface of the snow.

1,784,275. EGG CARTON. JOSEPH L. COYLE, London, Ontario, Canada, assignor to Leon Benoit, Chicago, Ill. Filed May 28, 1928. Serial No. 280,999. 6 Claims. (Cl. 229—29.)



1. A carton in which is fitted a semi-flexible blank folded upon itself to provide double walls extending lengthwise of the carton centrally thereof, the blank being slitted transversely for a portion of the distance between the fold and its longer edges, and having other slits connecting the transverse slits at their outer ends whereby to provide a series of alternating tongues and webs, the tongues providing an under support for articles which are placed between the webs, there being a portion of the blank between its opposite edges and the webs adapted to sustain the latter in a generally horizontal plane whereby to provide a lateral support for articles intermediately of their tops and bottoms.

1,784,276. SOFT BOX TOE. CHARLES LEO DALY, Brockton, Mass., assignor, by mesne assignments, to Arden Box Toe Company, Watertown, Mass., a Corporation of Massachusetts. Filed Jan. 18, 1927. Serial No. 161,775. 3 Claims. (Cl. 36—77.)



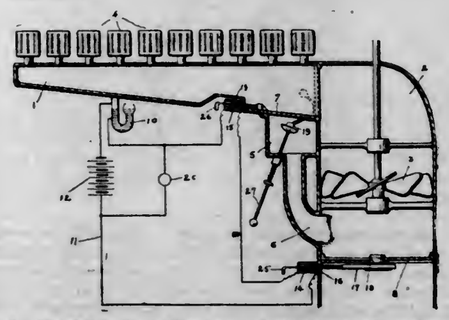
1. As a new article of manufacture, a soft flexible one piece box toe blank carrying an external coating of latently adhesive material capable when rendered adhesive of forming the sole connecting medium between the blank and the tip and vamp of a shoe and when hardened acting to stiffen the blank adjacent to its tip line edge.

1,784,277. SWITCH-BOX PLATE COVER. FRANCIS GEORGE DARLINGTON, San Francisco, Calif. Filed Oct. 25, 1927. Serial No. 228,652. 4 Claims. (Cl. 247—23.)



1. A switch box plate cover of the class described, a cover sheet consisting of one sheet of fabricated material shaped to fit the general outline of the switch box plate and having an area on the back treated with adhesive material, a pad of sheets of fabricated material fastened together and to cover sheet, both cover sheet and pad being perforated to expose and operate the switch box mechanism.

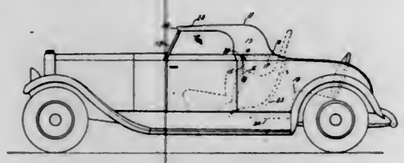
1,784,278. METHOD AND APPARATUS FOR FILTERING AND CLEANING FILTERS. LEWIS L. DOLLINGER, Rochester, N. Y., assignor to Staynew Filter Corporation, Rochester, N. Y., a Corporation of New York. Filed Apr. 1, 1925. Serial No. 20,002. 4 Claims. (Cl. 183—57.)



4. The method of filtering and cleaning a filter having a series of filtering units connected to a series of intake

ducts which consist in drawing the material to be filtered in thru a plurality of the intake ducts and the filtering units connected thereto and alternately returning this material thru another of the series of intake ducts and the filtering units connected thereto at a higher velocity.

1,784,279. CONVERTIBLE AUTOMOBILE TOP. BEN BROWN ELLERBECK, Salt Lake City, Utah. Filed Jan. 7, 1929. Serial No. 330,702. 4 Claims. (Cl. 296—107.)

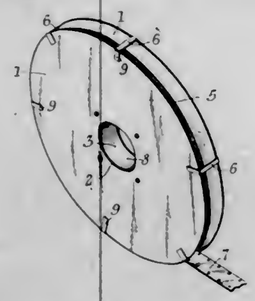


1. The combination with an automobile body having a deck seat compartment in the rear of the front driving compartment, of a rigid top having a roof portion that contains a transparent forward section, side and rear walls having outwardly flared lower edges to form an upwardly pressing lip against the deck and adjacent body surfaces, and pivots extending laterally from the lower forward portion of the side walls and resting on cushioning springs held in channels, the said top being rotatable backwardly on said pivots and movable downwardly into the body to such position that the forward transparent roof section extends above the body to form a properly inclined windshield for the deck seat compartment.

1,784,280. CONCENTRATION OF MINERALS BY FROTH FLOTATION. LOCKWOOD W. FERRIS, Salt Lake City, Utah. Filed Dec. 11, 1928. Serial No. 325,396. 1 Claim. (Cl. 209—166.)

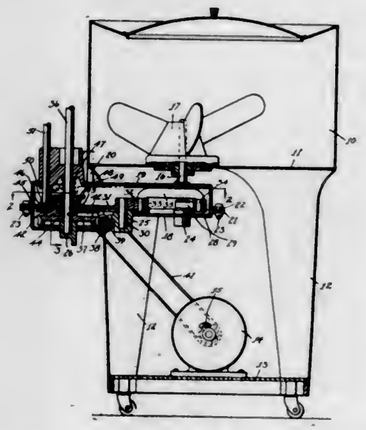
The method of effecting the flotation of silicate forms of copper minerals, which comprises subjecting such ores and materials to heat alone in the absence of reagents, so as to decompose such copper silicates and subjecting the heated material to a froth flotation operation.

1,784,281. PHOTOGRAPHIC CARTRIDGE. EDWIN C. FRITTS, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 27, 1928. Serial No. 249,935. 7 Claims. (Cl. 206—59.)



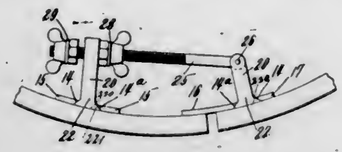
1. A photographic film cartridge comprising a band of sensitized material coiled into a roll, a side wall of flexible material on each side of said roll, readily severable strips connecting the edges of the two side walls and holding said flexible side walls in contact with the edges of the roll and thereby preventing the entrance of light and also preventing the roll from uncoiling.

1,784,282. GEARING MECHANISM FOR WASHING MACHINES. GEORGE M. GIBSON, Pella, Iowa, assignor to Woodrow Washing Machine Company, Pella, Iowa, a Corporation of Iowa. Filed Aug. 6, 1928. Serial No. 297,824. 5 Claims. (Cl. 74—14.)



1. A gearing mechanism for washing machines including a shaft having a continuous driving member, one face of said member being provided with laterally projecting radial lugs and a friction surface, a driven member rotatively mounted and adapted to move toward and from the first said member and provided with notches for receiving lugs of the first said member, and a friction surface for coacting with the first friction surface, an agitator shaft, means operated by the driven member for imparting a rotary oscillatory movement to said agitator shaft, and means for yieldably supporting said friction faces in operative relation.

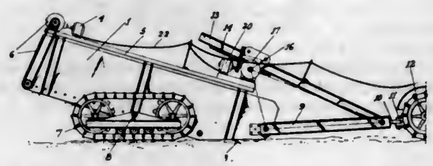
1,784,283. DEVICE FOR EXPANDING AND CONTRACTING DEMOUNTABLE RIMS. ABRAHAM LAWRENCE GOLDSMITH and PERLEY WHITING ROGERS, Orono, Me. Filed Feb. 20, 1930. Serial No. 429,898. 2 Claims. (Cl. 157—1.)



1. A pushing and pulling tool adapted to engage pairs of undercut abutment faces extending crosswise on the inner side of a split rim at opposite sides of the split, said tool comprising a pair of lugs having gibs complemental to and slidable between said abutment faces and adapted to cooperate therewith in maintaining the lugs substantially perpendicular to portions of said rim, and in position to exert pushing and pulling force on said abutment faces, and pushing and pulling means organized to push the lugs from each other and cause the gibs to exert pushing pressure on one abutment face of each pair and thereby expand the rim and to pull the lugs toward each other to cause the gibs to exert pulling pressure on another abutment face of each pair and thereby contract the rim, said means including a screw-threaded rod pivoted at one end to one of the lugs and extending loosely through a slot in the other lug, an inner nut engaged with the rod between the lugs and adapted to exert pushing pressure

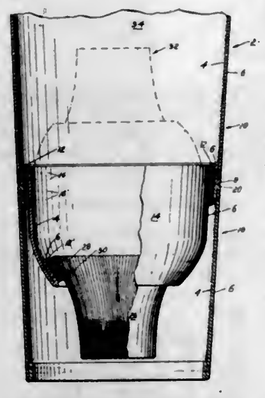
on one side of the slotted lug and thereby expand the rim, and an outer nut engaged with the rod and adapted to exert pulling pressure on the opposite side of the slotted lug and thereby cause contraction of the rim, each nut being displaceable from its operative position to permit the operation of the other nut; the effect of the rod and nut connection being to transmit either the pushing or the pulling force at right angles to said lugs.

1,784,284. SCRAPER-CONTROL MECHANISM. WILLIAM H. GUY, IRA D. GUY, and ROBERT E. GUY, Stockton, Calif. Filed July 16, 1929. Serial No. 378,662. 1 Claim. (Cl. 37—118.)



A scraper including a body, ground supported elements on which the body is rockably mounted, a drawbar pivoted on the body and extending forwardly for connection to a draft means, a bar pivoted on the draw-bar toward the forward end of and above the same and extending thence rearwardly and upwardly to the body, and terminating rearwardly of the point of connection of the drawbar with the body and means on the body engaging the bar adjacent such rear termination for enabling a downward or upward pressure to be exerted on the forward portion of the body.

1,784,285. METHOD AND MEANS FOR MAKING GARMENTS. WILLIAM H. HEATON Oakland, Calif., assignor to Tufoak Products Co., Oakland, Calif. Filed Oct. 26, 1926. Serial No. 144,332. 4 Claims. (Cl. 2—243.)

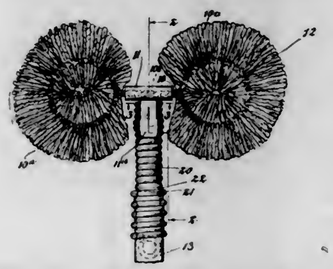


1. In a waterproof garment formed of rubber-coated cloth, a sleeve-like limb-encasing member comprising an upper tubular portion, a lower tubular portion abutting said upper portion as a continuation thereof, and a second lower portion disposed within said first lower portion and providing a small end adapted to hug the limb of the wearer, all of said portions having only the outer surfaces thereof rubber-coated and the larger end of said lower portion being secured to both of said other portions at their point of abutment for securing the three portions together, the seam edges of said outer portions being folded inwardly to dispose rubber surfaces thereof in opposition to that of the inner portion.

1,784,286. PROCESS OF MAKING EASILY SOLUBLE STABLE HYPOCHLORITES. PAUL RALPH HERSHMAN, Chicago, Ill., assignor of one-fourth to C. O. Sethness, one-fourth to C. H. Sethness, and one-fourth to Paul Rudnick, Chicago, Ill. Filed Apr. 15, 1927. Serial No. 184,184. 4 Claims. (Cl. 23—86.)

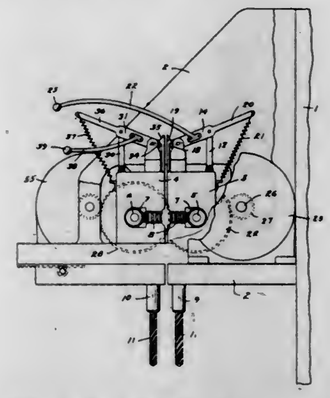
1. The method of making hypochlorite of calcium soluble which consists in mixing it, in the presence of moisture, with sodium acetate, and then drying the product.

1,784,287. HOLDER FOR DUSTERS AND THE LIKE. HARRY HERTZBERG, Brooklyn, N. Y. Filed May 8, 1928. Serial No. 275,985. 3 Claims. (Cl. 306—20.)



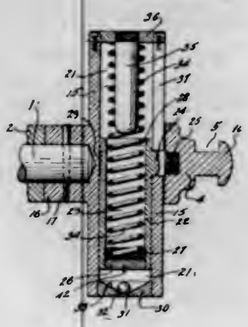
1. A holder for dusters or the like consisting of a helical coil, the turns of said coil forming means for holding a handle in the hollow part of said coil at one of its ends, a journal adapted to hold a duster frame for rotation therein at the other end of said coil and a stem on said journal mounted within the turns of said coil and a shoulder on said stem for locking said journal permanently to said coil.

1,784,288. MULTIPLE DRILL APPARATUS. WILSON P. HUNT, Moline, Ill. Filed Nov. 23, 1927. Serial No. 235,177. 3 Claims. (Cl. 77—24.)



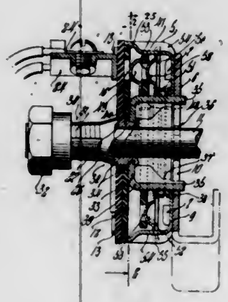
1. A device of the class described, comprising a frame and carriage movable thereon, a pair of spindle supporting devices oppositely disposed in said carriage capable of independent movement to or from a piece of work and tool-holding spindles supported thereby, spring controlled levers yieldably mounted for movement away from each other and catch mechanism therefor, said levers being operatively connected with the spindle supports, catch devices on said levers and detents therefor on said carriage, and operators' rods connected with said levers and projected in the same general direction for operation from one side of the machine for use in actuating said levers to release the same and cause a retraction of the spindles from a piece of work.

1,784,289. EXERCISING MACHINE. ELBERT L. HYDE, Shaker Heights, Ohio. Filed Feb. 25, 1928. Serial No. 257,016. 11 Claims. (Cl. 128—63.)



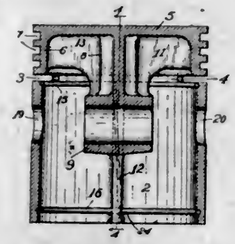
5. An exercising machine, comprising a driving shaft provided with two heads, an operating device transversely movable on each head toward and from central position and provided with means whereby an applicator end may be connected thereto, yielding means for moving each device inwardly, and means for adjusting said yielding means.

1,784,290. SWITCH. EDWARD N. JACOBI, Milwaukee, Wis., assignor to Briggs and Stratton Corporation, Milwaukee, Wis., a Corporation of Delaware. Filed Oct. 25, 1928. Serial No. 314,950. 19 Claims. (Cl. 200—11.)



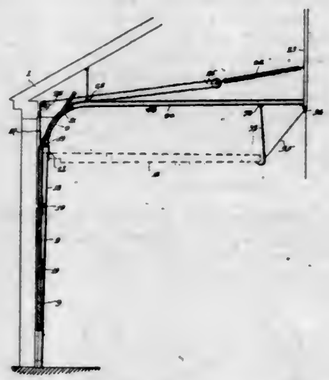
1. In a switch mechanism, stationary contacts, a movable contact carrying member having both axial and rotary movement with respect to the stationary contacts, contacts carried by said member and adapted for engagement with the stationary contacts, a pressure applying member engageable with the face of the contact carrying member opposite the stationary contacts, means permitting axial movement of the pressure applying member but restraining rotary movement thereof, and spring means at all times urging the pressure applying member toward the contact carrying member whereby contact pressure is obtained between the movable and stationary contacts.

1,784,291. PISTON. FRANK JARDINE, Cleveland, Ohio, assignor, by mesne assignments, to The Cleveland Trust Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 9, 1926. Serial No. 100,771. 13 Claims. (Cl. 74—108.)



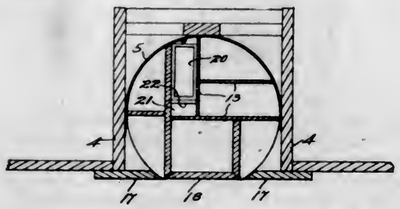
1. A piston comprising a head, a central depending wrist pin boss and a skirt connected to the head at one side and separated from the head at the opposite side.

1,784,292. DOUBLE OVERHEAD DOOR. CLARENCE G. JOHNSON, Hartford City, Ind. Filed Feb. 14, 1927. Serial No. 167,978. 7 Claims. (Cl. 20—20.)



7. An element of a door construction comprising a horizontal double track having one end bent downwardly, a double rail hinged to and depending from said bent end and communicating therewith, said track and rail each being adapted to receive two sets of rollers.

1,784,293. ROTARY CABINET. LYNN A. KNIPP, Los Angeles, Calif. Filed Nov. 16, 1929. Serial No. 407,735. 1 Claim. (Cl. 312—183.)



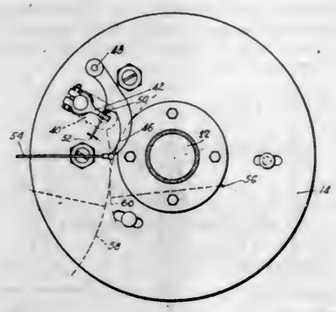
A cabinet structure including a case, a rotary carrier disposed and turnable on a vertical axis in said case and provided with shelves and partitions and having substantially cylindrical form, a flat door attached to one side of the carrier, and said case having front wing panels extending toward each other to form, with the said door, a flush front closure for the cabinet.

1,784,294. MATTRESS. ELIZABETH KRIEGE, San Diego, Calif. Filed Apr. 8, 1929. Serial No. 353,313. 1 Claim. (Cl. 5—357.)



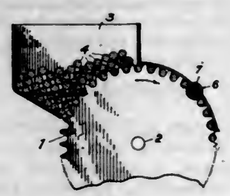
In a mattress, a plurality of mattress units adapted to be assembled in abutting relation, securing strips secured to the contiguous surfaces of said units, said strips substantially equal in width and depth to said surfaces and forming marginal flaps adjacent the upper and lower margins of said units, complementary fasteners secured to the outer surface of said flaps and accessible from the rear of said flap when said units are assembled.

1,784,295. BRAKE-OPERATING MEANS. LUDGER ELIZÉ LA BRIE, South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed May 6, 1926, Serial No. 107,151. Renewed June 11, 1928. 11 Claims. (Cl. 188—78.)



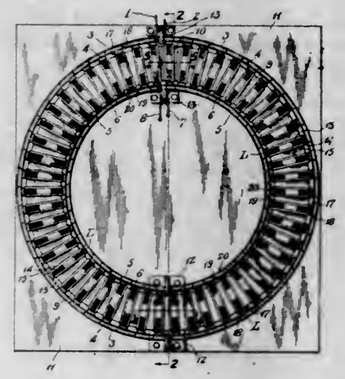
3. A brake comprising, in combination, friction means and an adjacent support, an applying device for the friction means including a shaft extending through the support, an operating arm on the shaft on the opposite side from the friction means, and a lever fulcrumed at one end on the support at a point spaced from said shaft and having a part operatively engaging said arm.

1,784,296. PROCESS AND DEVICE FOR IMPROVING CIGARETTES. VALENTIN LORENTZ, Dresden, Germany, assignor to United Cigarette Machine Company Aktiengesellschaft, Dresden, Germany. Filed Sept. 21, 1927, Serial No. 220,978, and in Germany Sept. 23, 1926. 5 Claims. (Cl. 131—39.)



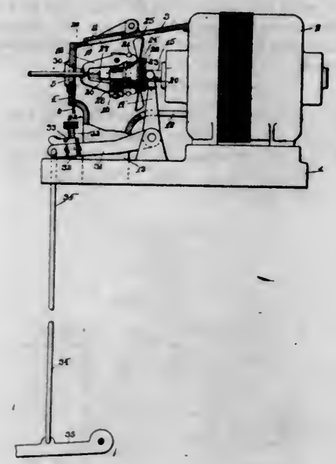
5. A process for improving cigarettes consisting in passing an air current alternately in both directions in a lengthwise direction through them.

1,784,297. HIGH-FREQUENCY TRANSFORMER. HENRY G. MAERLENDER and HUGO A. MAERLENDER, Cleveland, Ohio. Filed May 31, 1929. Serial No. 367,530. 13 Claims. (Cl. 175—359.)



1. A high frequency current transformer comprising a plurality of magnetically independent primary inductance elements joined in parallel and secondary inductance elements, each comprising two sections connected in parallel and severally coupled interiorly and exteriorly of each of said primary inductance elements, all of said secondaries being connected in parallel.

1,784,298. WIRE-STRIPPING MACHINE. CHARLES B. MAHAN and CARL M. WEBER, Rochester, N. Y., assignors to Weber Machine Corporation, a Corporation of New York. Filed Mar. 2, 1929. Serial No. 344,075. 3 Claims. (Cl. 81—9.51.)



1. In a wire stripping machine having a stripper head and means for locating the wire to be stripped in a predetermined position with relation thereto, the combination of a plurality of circular knives carried by said stripper head and mounted concentrically to the center of rotation of said stripper head and in an angular position to each other, means for uniformly moving said circular knives in

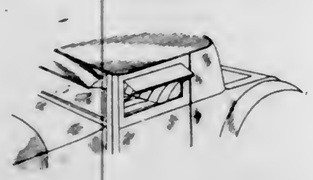
their relative angular position toward a common center during the rotation of said stripper head to have their cutting edges overlap one another and cut the insulation of a wire located in said stripper head radially and axially to the wire.

1,784,299. TIE FOR CARDS, SHEETS, ETC. FILLETTE C. MANY, Kalamazoo, Mich. Filed Aug. 24, 1929. Serial No. 388,107. 2 Claims. (Cl. 40—128.)



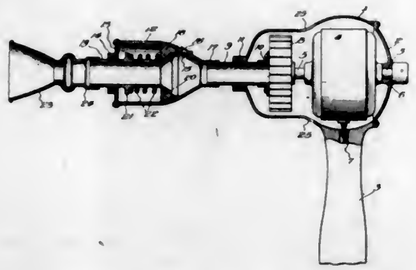
1. The combination in an assembly of cards or sheets, of a plurality of the cards or sheets disposed edge to edge and having holes spaced from their adjacent edges, and ties connecting said cards or sheets consisting of flexible tapes and end bars of substantially greater length than the width of the tape and to which the ends of the tape are centrally secured the holes being of such size as to receive the bars when presented endwise thereto, the tape being retained within the holes when the bars are disposed transversely thereof.

1,784,300. COMBINED SHADE AND AWNING. EARL E. MCGREW, Lincoln, Nebr., assignor to McGrew Machine Company, Lincoln, Nebr., a Corporation of Nebraska. Filed Nov. 1, 1928. Serial No. 316,435. 3 Claims. (Cl. 156—44.)



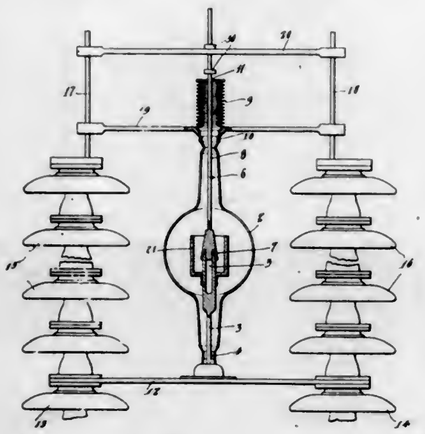
2. In an awning construction, the combination with a window jamb engaging frame adapted to be seated in a window for supporting at the upper end the upper edge of an awning web, and a movable frame for attachment to the lower edge of the awning web, universal connections between the lower portions of said frames for interconnecting the same.

1,784,301. MASSAGING DEVICE. LEV A. MEKLER, Chicago, Ill. Filed Dec. 9, 1927. Serial No. 238,790. 9 Claims. (Cl. 128—56.)



1. In a massaging device, the combination with a rotatable massaging element, of means for rotating said massaging element, and means permitting the disengagement of the said massaging element from said rotating means when the pressure against said massage element exceeds a predetermined amount.

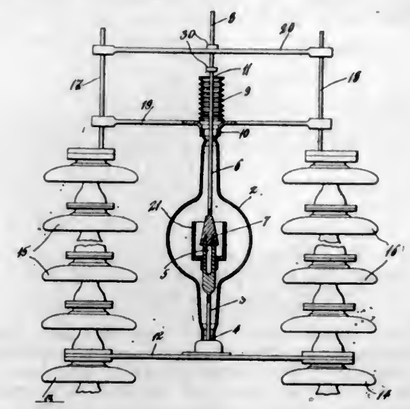
1,784,302. PROCESS FOR CONDITIONING ELECTRIC SWITCHES. ROBERT A. MILLIKAN and ROYAL W. SORENSEN, Pasadena, Calif., assignors to California Institute of Technology, Pasadena, Calif., a Corporation of California. Filed Nov. 15, 1926. Serial No. 148,418. 10 Claims. (Cl. 200—144.)



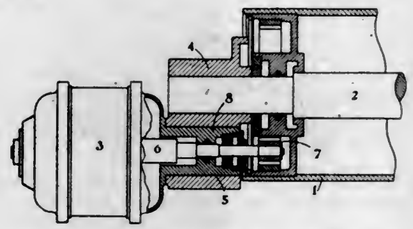
1. A process of producing an electrical switch, which comprises mounting contacts within a gas-tight chamber, exhausting the chamber to a pressure lower than the pressure at which gases are conductive, imposing an electrical potential on the contacts, opening the contacts to establish an arc therebetween, and exhausting from the chamber expelled occluded gases.

1,784,303. ALTERNATING-POWER-CURRENT INTERRUPTER. ROBERT A. MILLIKAN and ROYAL W. SORENSEN, Pasadena, Calif., assignors to California Institute of Technology, Pasadena, Calif., an Educational Corporation of California. Filed Sept. 5, 1928. Serial No. 304,158. 10 Claims. (Cl. 200—144.)

1. A power circuit interrupter comprising electrodes relatively movable to open and close a power circuit, a vacuum ambient for said electrodes containing insufficient gas to establish an arc when the electrodes are separated, the electrodes being sufficiently free of occluded gases as to have the capacity of producing a fractional cycle arc only, when the electrodes are separated while carrying a power current.

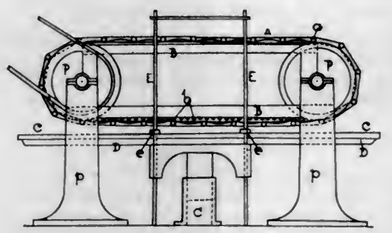


1,784,304. ELECTRICALLY-OPERATED EDGE-DRIVEN ROLL. FRITZ MÖLLER, Duisburg, Germany, assignor to Demag Aktiengesellschaft, Duisburg, Germany. Filed July 2, 1928. Serial No. 289,898. 3 Claims. (Cl. 80—58.)



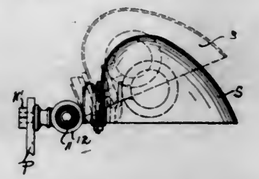
1. An electrically driven roll for rolling mills, provided with a stationary spindle, a support for the said spindle, a driving motor having a casing with an axial extension of the casing serving as bearing for the motor shaft and to extend through the said support, a pinion upon the motor shaft, and internal teeth upon the roll with which said pinion engages.

1,784,305. EXCELSIOR-CUTTING MACHINE. JOSEPH L. MONKHOUSE, Guelph, Ontario, Canada. Filed May 27, 1929. Serial No. 366,424. 1 Claim. (Cl. 144—187.)



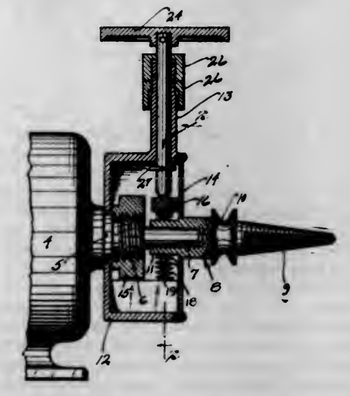
In combination with an excelsior cutting machine composed of a plurality of cutting and scoring planes formed into an endless link belt, scoring and planing units with flat outer sides in which are inserted the scoring studs or pins, and planing knife, the central part of the inner side being concaved and faced with wooden or leather friction layers, the projecting ends of said scoring and planing units being flattened and adapted to pass over parallel, closely spaced friction rollers attached to the under sides of carrying bars; and narrow smooth faced driving pulleys which fit the concaved rear sides of the scoring and planing units.

1,784,306. SWIVELED LAMP-SHADE SUPPORT. FRANK J. MURPHY, Floral Park, N. Y., assignor to S. W. Farber, Inc., Brooklyn, N. Y., a Corporation of New York. Filed May 17, 1929. Serial No. 363,938. 4 Claims. (Cl. 240—73.)



4. A shade support for a lamp having an upright or the like, comprising a coupling member adapted to be nonmovably connected to said upright, said coupling member having an annular extension, the width of said annular extension being substantially one-half the width of said coupling member, a shaft which is non-revolubly mounted in said extension, a shade holder having an annular extension which is non-revolubly mounted upon said shaft, the width of said shade holder and of said extension being substantially equal to the width of said coupling member, and friction members which are slidably and non-revolubly mounted upon the shaft at the outer ends of said extensions, said friction members and said extensions having non-interlocking friction faces which are perpendicular to said shaft, and additional end members which are connected to the ends of said shaft and projecting beyond said ends, and compression springs located intermediate said additional end members and the lateral walls of said friction members, said compression spring being adapted to produce frictional contact between said friction members and said extensions.

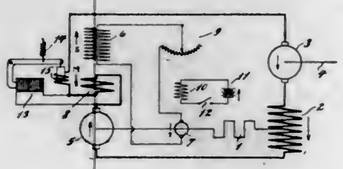
1,784,307. COMBINED DENTAL LATHE AND VIBRATOR. EARL A. NELSON, Minneapolis, and CHARLES E. LARSON, St. Louis Park, Minn. Filed Feb. 21, 1929. Serial No. 341,632. 5 Claims. (Cl. 259—91.)



1. A dental vibrator comprising a casing, a motor driven tappet-acting cam within said casing, a rocker pivotally

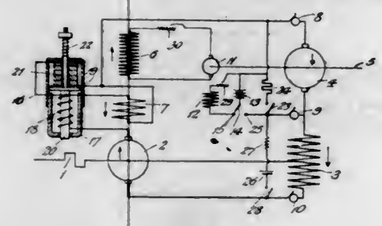
mounted within said casing and yieldingly held out of the zone of action of said cam but depressible into the zone of action, and a table having a plunger working vertically through said casing and resting on the rocker and said rocker being movable into the zone of action of said cam through said plunger and table.

1,784,308. AUTOMATIC POWER TRANSMISSION. ALFONS H. NEULAND, Irvington, N. J., assignor to Electro-Mobile Corporation, Irvington, N. J. Filed Sept. 13, 1927. Serial No. 219,227. 7 Claims. (Cl. 290—29.)



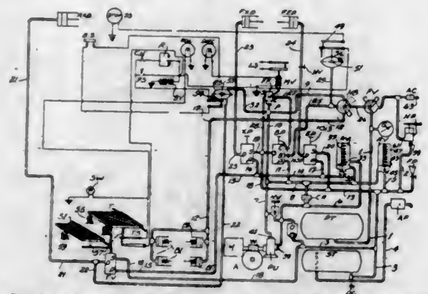
6. In combination, an engine shaft, a load shaft, a dynamo rotatively associated with both shafts, a second dynamo rotatively associated with the engine shaft and having pole pieces provided with series and auxiliary field coils, a source of current connected to the auxiliary field coil adapted to magnetize the field poles in generating direction, a load circuit including the first dynamo and series field coil adapted to magnetize the field poles in motoring direction, and means for shunting the series field coil operative to reverse the magnetism in the field poles from motoring direction to generating direction.

1,784,309. POWER-TRANSMISSION DEVICE. ALFONS H. NEULAND, Irvington, N. J., assignor to Electro-Mobile Corporation, Irvington, N. J. Filed Jan. 22, 1927. Serial No. 162,788. 11 Claims. (Cl. 172—239.)



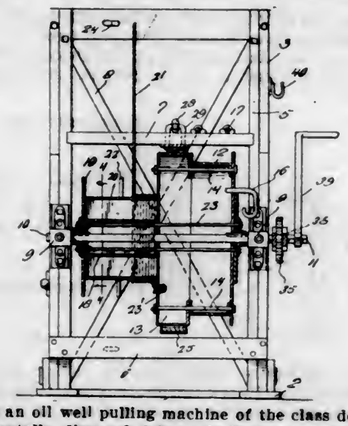
1. In a power transforming mechanism, a magnetic induction clutch comprising a rotative field and armature, associated between a power source and a load shaft, an electro-dynamic booster, likewise having armature and field elements, and mechanically associated with the power source, and means for controlling the direction and amount of transfer of power through said booster, comprising an auxiliary field winding therein, and a regulating dynamo connected thereto and operatively associated with the load shaft, having an armature and a field, and means for the steady energization of said field, whereby a controlling current is produced by said regulating dynamo in accordance with the speed of the load shaft, and means comprising a variable resistance in shunt to the series field of said booster, and a magnetic control device cooperating therewith, for variably shunting current from the booster field as the load current varies.

1,784,310. CONTROL SYSTEM. HARVEY S. PARDEE, Ravinia, Ill., assignor to John R. Blackhall, Chicago, Ill. Filed Oct. 19, 1929. Serial No. 400,870. 31 Claims. (Cl. 303—6.1.)



1. In a vehicle control circuit, a pressure tank, a sump tank, means for placing liquid in said sump tank and means for placing air under pressure in said pressure tank, and means for pumping liquid from said sump tank into said pressure tank to further build up the pressure therein.

1,784,311. OIL-WELL PULLING MACHINE. MILES DARWIN PERRY, Parkers Landing, Pa. Filed Sept. 21, 1928. Serial No. 307,535. 2 Claims. (Cl. 254—184.)



1. In an oil well pulling machine of the class described, a horizontally disposed driven shaft, a support therefor, actuating means for said shaft, a low speed winding drum secured on the shaft for rotation therewith, and a high speed drum detachably secured around the low speed drum for rotation with said shaft, said high speed winding drum including complementary sections, hinges connecting the sections, and means consisting of the cable on the drum sections for securing the sections against accidental swinging movement relative to one another on said hinges during the winding operation.

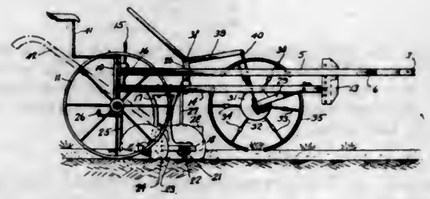
1,784,312. POCKET HOLDER. EDWARD WALTER PERRY and GEORGE ALBERT HUDSON, Winnipeg, Manitoba, Canada. Filed Apr. 17, 1929. Serial No. 355,900. 8 Claims. (Cl. 24—11.)



1. A pocket holder comprising a front plate, a curved rear plate, an interposed tongue carrying plate and a

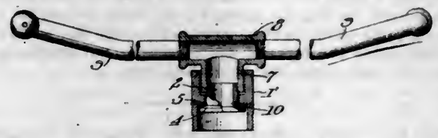
hooked suspending portion, the front plate having flanged edges holding the several plates together and the back plate being provided with piercing prongs protruding through the other plates and extending beyond the front plate and underlying the hooked portion.

1,784,313. COMBINED COTTON BLOCKER AND CULTIVATOR. ARTEMUS ERASTUS PITTMAN, Muscogee, Fla. Filed Oct. 29, 1928. Serial No. 315,827. 4 Claims. (Cl. 97—22.)



1. In an agricultural machine of the character described, a main frame, a pair of supporting wheels at the rear end of the frame, draft attaching means at the forward end of the frame, a sub-frame arranged beneath said main frame, a vertically adjustable pivotal connection between the forward end of the sub-frame and said main frame, means at the rear end of said sub-frame whereby it may be raised or lowered, earth working elements associated with and depending from the opposite sides of the sub-frame, a blocking unit located at the forward end of and intermediate the sides of said sub-frame, said blocking units consisting of a wheel including a hub portion, spokes radiating therefrom, and segmental rim sections associated with the outer ends of the spokes, and having spaced relation at their ends to provide spaces within the rim of the wheel.

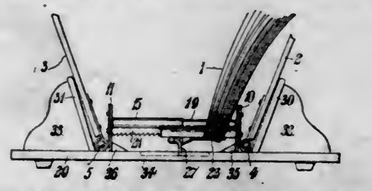
1,784,314. ROTARY SPRINKLER. HENRY NOEL POTTER, Encinitas, Calif. Filed Aug. 1, 1928. Serial No. 296,734. 6 Claims. (Cl. 299—69.)



1. In a sprinkler, a pair of relatively rotatable elements comprising a hollow spindle within and loosely guided for rotation by a sleeve, and means on said elements providing an end thrust bearing, the contact surface of said bearing having the form of a zone of a spherical surface, whereby within the range of relative movement permitted by the loose guiding action of said sleeve, a tight water seal is provided by the spherical surfaces of said thrust bearing when water is supplied to said sprinkler.

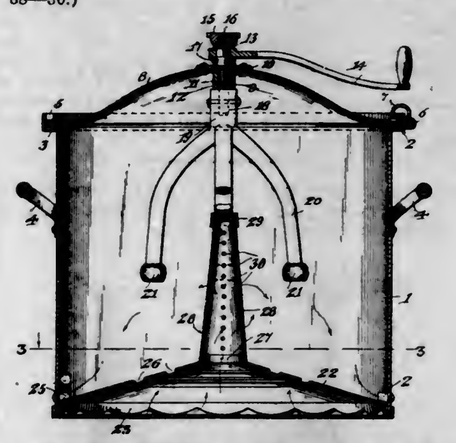
1,784,315. TRANSFER-BINDING CASE AND RELEASE STAND THEREFOR. RICHARD FITZ POWER, Hampstead, London, England, assignor to Morland & Impey Limited, Birmingham, England. Filed July 13, 1927, Serial No. 205,362, and in Great Britain Sept. 25, 1926. 12 Claims. (Cl. 129—18.)

1. A binding case for securing loose leaves of the kind having on one edge open-faced recesses with undercut ends, comprising binding elements for clamping the loose leaves, telescopic anchoring members mounted on said binding elements and parts of which occupy said undercut ends,



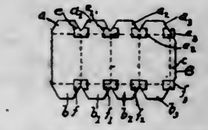
and self-locking means in said telescopic members for holding said binding elements in clamping relation to the leaves.

1,784,316. WASHING MACHINE. LESLIE A. SCHUER and FLOYD BRECKENRIDGE, Breckenridge, Mich. Filed Mar. 16, 1929. Serial No. 347,643. 3 Claims. (Cl. 68—30.)



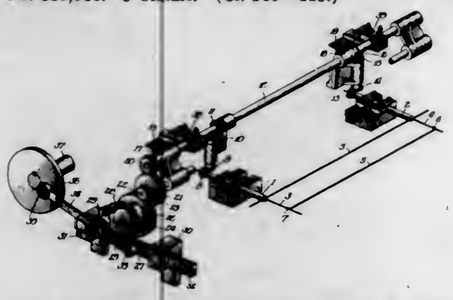
1. The combination with a container and agitating arms mounted for rotation within the container, of a frusto-conical member removably mounted in the lower portion of the container, an annular apron depending from said member and cut away to afford communication past the margin of said member between the container and the space below the conical member, said member having a concentric gutter therein between its upper and lower portions, an upwardly tapered apertured nozzle carried by the upper portion of the conical member and extending between the agitating arms.

1,784,317. PACKAGE, WRAPPER, AND METHOD OF APPLYING WRAPPERS TO CONTAINERS. JOHN S. STOKES, Huntingdon Valley, Pa., assignor to Stokes and Smith Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 8, 1926. Serial No. 79,936. 14 Claims. (Cl. 229—87.)



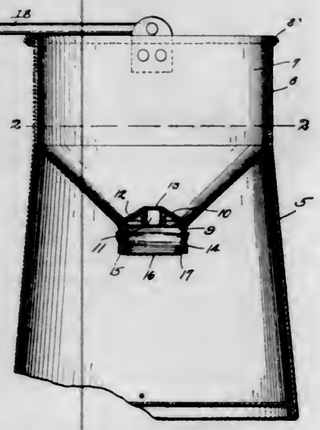
10. A wrapper for encircling and inclosing a previously completed closed container comprising an individual sheet having spaced reinforcing elements adhering thereto and substantially spaced from the ends thereof to overlie the corners of the container formed by a wall which is engaged by end portions of the wrapper extending beyond the re-enforcing elements.

1,784,318. WIRE-TWISTING APPARATUS. ALBERT SWANBAUM, Duluth, Minn. Filed Feb. 14, 1929. Serial No. 339,835. 5 Claims. (Cl. 140—115.)



1. A wire twisting apparatus comprising, in combination, a plurality of twister heads constructed and arranged for intermediate rotation in the same direction, rotary means for driving the twister heads, and means connecting the rotary means with the twister heads, said connecting means comprising a device for changing the movement of the rotary means to alternate and opposite reciprocations in a lineal path, and a device for changing such reciprocations to intermittent rotation in one direction.

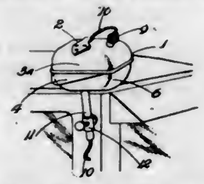
1,784,319. SANITARY MILK PAIL. WILLIAM H. SWARTZ, Celina, Ohio. Filed Sept. 27, 1929. Serial No. 395,630. 1 Claim. (Cl. 210—157.)



A strainer comprising a funnel-shaped body portion having an open lower end, a hollow straining member positioned in the open lower end, said hollow straining member including a threaded body portion, a strainer having an upstanding flange formed with threads, to removably connect the strainer to the hollow straining member, said hollow straining member and strainer having cooperating flanges to support a gasket to provide a fluid-tight connection between the hollow straining member and strainer, said hollow straining member having an upstanding flange, and a straining member having an extension held within the confines of the upstanding flange of the hollow straining member.

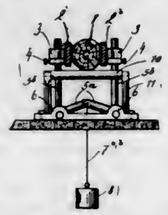
1,784,320. LAMP FOR MOTOR AND LIKE VEHICLES. MARTIN SWENSON, Jr., Taihape, New Zealand. Filed Dec. 17, 1928. Serial No. 326,641. 2 Claims. (Cl. 240—7.1.)

1. A lamp of the class described comprising an elongated dome-shaped casing formed with a bead having a depression on the inside thereof and a depending portion below the bead, the depending portion inclining from the rear toward the front of the casing and merging into the bead, an elongated inverted dome-shaped globe formed with . bead to engage in the depression in the bead on the



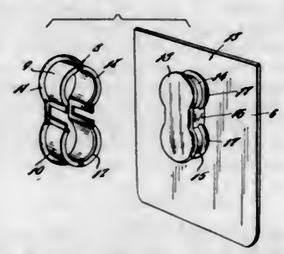
casing, the rear depending portion and the inclined side wall thereof on the casing being spaced from the curved rear and side walls of the inverted globe to form reflecting surfaces, and a lamp bulb supported between the casing and globe.

1,784,321. CENTERING AND GUIDING DEVICE. ANDERS TYCHO TIDBLAD, Soderhamn, Sweden. Filed June 27, 1927, Serial No. 201,865, and in Sweden July 6, 1926. 1 Claim. (Cl. 143—4.)



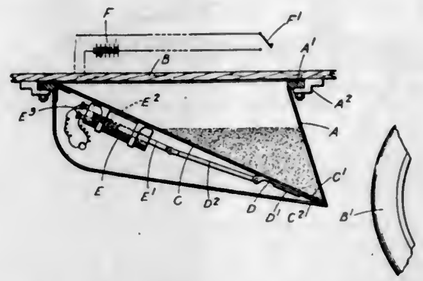
A centering and guiding device for timbers in saw frames and the like, comprising guide bars for the log arranged on each side of the path of movement of the log and opposite to one another, means for supporting said guide bars to permit them to move towards and from each other, comprising pivotally mounted bell crank levers, the upper arms of which support the bars, the other of said arms of said bell crank levers extending laterally towards each other, a weight common to both levers and cable connections between the weight and both levers whereby a guide bar meeting with a bend or the like in a log moves the log by virtue of the weight towards the median line of the path of movement of the log, while the guide bar on the opposite side of the log is inactive upon the log through the weight at that time.

1,784,322. ARTIFICIAL TOOTH. FRANK S. TRUSLER, Vernon, Tex. Filed Feb. 2, 1929. Serial No. 336,969. 3 Claims. (Cl. 32—9.)



1. In an artificial tooth structure of the class described, a facing having a cavity adapted to receive an expansible female coupling member, said female coupling member comprising upper and lower sockets and a restricted vertical channel between the sockets communicating with the sockets, a backing cooperable with said facing and having an integral male coupling member embodying upper and lower substantially cylindrical portions receivable in said sockets and a vertical web connecting said substantially cylindrical portions and receivable in said channel.

1,784,323. GRIT-DISTRIBUTING DEVICE. HENRY WALLACE, London, England. Filed June 6, 1930, Serial No. 459,495, and in Great Britain Aug. 19, 1929. 4 Claims. (Cl. 291—23.)

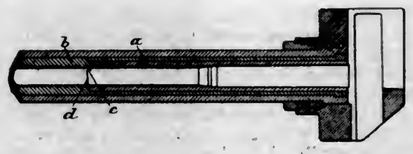


1. A device for distributing grit before the road wheels of vehicles including in combination a container adapted to be mounted in front of and adjacent to one of the wheels, a removable partition in the container inclined toward the wheel so as to divide the container into an upper grit compartment and a lower compartment, an outlet port for grit in the lower end of the partition registering with an opening in the base of the container, and means for controlling the outlet port carried on the lower face of the partition and comprising a shutter and a solenoid operatively connected thereto.

1,784,324. MEDICINE. LEON A. WILSON, Los Angeles, Calif., assignor of one-half to Edwin L. Yewell, Washington, D. C. Filed Aug. 16, 1923, Serial No. 657,825. Renewed May 17, 1930. 1 Claim. (Cl. 167—56.)

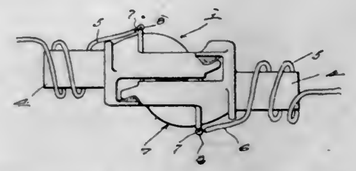
In the process of preparing a relatively mobile liquid-petrolatum-agar-water emulsion, the steps of boiling the water with the agar and of agitating the mixture containing the water and agar until cool.

1,784,325. BARREL OF FIREARMS. KARL WITZELL, Berlin-Lichterfelde, Germany, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany, a Corporation of Germany. Filed Nov. 18, 1929, Serial No. 408,059, and in Germany June 1, 1928. 1 Claim. (Cl. 89—16.)



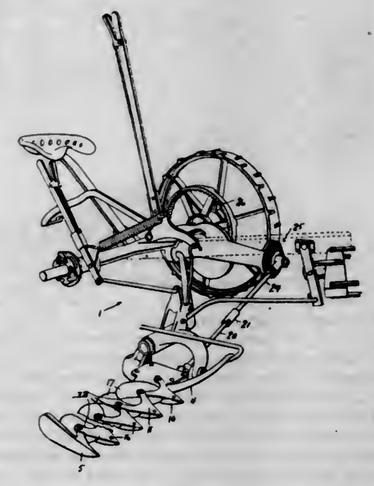
In a barrel of fire arms provided with grooves or furrows and an exchangeable insertion piece, in combination a projection at the front face of said insertion piece and a corresponding opening in the rear face of said barrel adjoining the front face of said insertion piece, said adjoining front faces of said insertion piece and said barrel being formed as helicoidal surfaces of equal pitch the direction of which is opposite to that of said grooves or furrows and being each provided with a stepped face or shoulder extending in the direction of the axis of said barrel.

1,784,326. ELECTRIC SIGNAL. MARVIN F. ALDER, La Grange, Ky. Filed Sept. 9, 1926. Serial No. 134,464. 1 Claim. (Cl. 173—333.)



A hollow coupling head having an exposed surface of material that is rust-proof and is a good conductor of electricity and also having at an intermediate point on its top an exterior integral tubular projection disposed at right angles to the length of the head and further having a tubular projection at one end, in combination with a conducting wire and an insulating casing on said wire; said wire and casing coiled about the tubular end projection and arranged to surround a rubber hose on said projection, and said wire and casing being arranged exteriorly of the coupling head and a bared portion of said wire being disposed at right angles to the length of the head and welded in said exterior transverse tubular projection.

1,784,327. MOWING MACHINE. AMBROSE L. ALLEN, Mart, Tex. Filed Dec. 19, 1928. Serial No. 326,985. 3 Claims. (Cl. 56—295.)

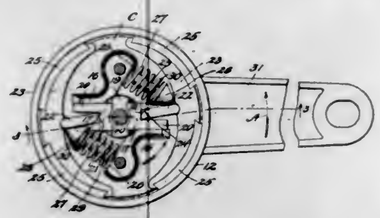


1. In a cutting mechanism for harvesters or the like comprising a casing, stationary guard fingers extending forwardly therefrom, a driven shaft extending longitudinally of the casing, a series of horizontally disposed overlapping cutting disks mounted for rotation on the casing and extending beyond the forward side thereof for cooperation with the respective guard fingers, cover plates for the guard fingers and the upper forward portions of the cutting disks, intermeshing bevel gears arranged on the drive shaft and the respective cutting disks whereby said disks will rotate simultaneously, and means for actuating the driven shaft.

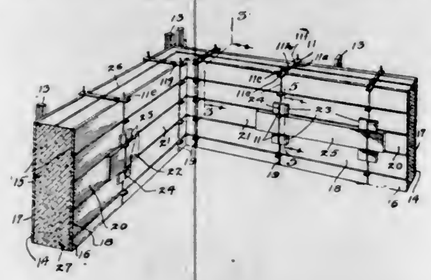
1,784,328. SHOCK ABSORBER. JAMES PIERCE BALDWIN and CLIFFORD GARVER, Los Angeles, Calif.; said Garver assignor to said Baldwin. Filed Oct. 20, 1926. Serial No. 142,984. 7 Claims. (Cl. 188—130.

1. A shock absorber of the moving strut friction shoe type and having abutments for the struts which may be

adjusted relatively to each other, of an abutment adjusting device comprising a wedge member having inclined faces contacting with the abutments respectively, a primary spring acting directly on said wedge and a secondary spring acting on the wedge through the intermediary of a screw bolt which has threaded relation with the wedge member.



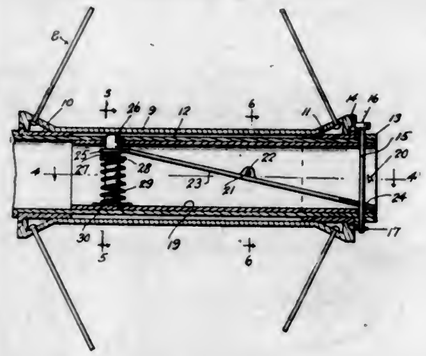
1,784,329. MOLD-FORM CONSTRUCTION. DIRK BIERHAALDER, Minneapolis, Minn., assignor to Edna May Bierhaalder, Minneapolis, Minn. Filed June 30, 1928. Serial No. 289,393. 5 Claims. (Cl. 25—131.)



3. A wall mold form construction having in combination a plurality of boards laid edge on edge to form spaced form walls, the ends of certain boards being laid to abut the ends of certain other boards, boards spanning the abutting ends of adjacent boards at the outer sides thereof, a plurality of horizontally spaced and vertically alined spacing and tie bars extending transversely between the form walls and projecting outwardly between the edges of adjacent boards, said bars having shoulders inwardly spaced from their ends and abutting the inner sides of the form walls, and having openings therein outwardly spaced from said shoulders, members inserted within said openings except where spanning boards are used, said members bearing against the outer sides of said form walls to force the same against said shoulders, said bars above and below said spanning bars having openings outwardly therefrom, and members fitting through the last mentioned openings in bars above and below spanning boards and extending across the spanning boards to force the same inwardly, said first mentioned and last mentioned members forming practically continuous vertical studs for said form walls.

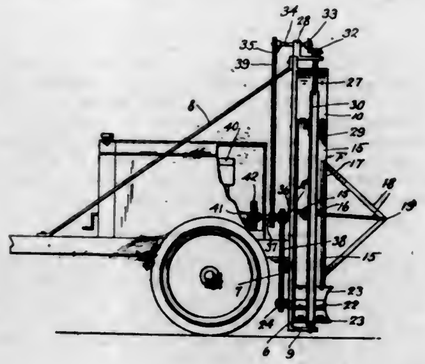
1,784,330. WHEEL RETAINER. MAURICE L. BOWERS, Long Beach, Calif. Filed June 14, 1929. Serial No. 370,997. 3 Claims. (Cl. 301—121.)

1. In a structure of the class described, in combination, a hollow axle, a hollow hub mounted for rotation on said axle, a bracing sleeve within said axle, and a spring pressed retaining latch carried by the sleeve, the sleeve and the axle being provided with aligned openings through which the retaining end of said latch projects, and a lever pivotally mounted intermediate its ends within said sleeve, and cooperable with said latch, whereby to permit the latch to be retracted to allow the sleeve to be removed or to allow the hub to be removed from said axle.



2. In a safety retaining device of the class described, a latch assembly including a latch bolt, a spring abutment washer surrounding the bolt, a retaining pin carried by the bolt and cooperable with the washer, a spring surrounding said bolt below the washer, a spring surrounding said bolt below the washer, an anchoring stud, means for guiding the bolt, said spring cooperating at one end with said stud, and means for mounting said latch assembly within the axle of a wheel structure.

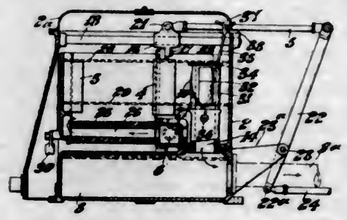
1,784,331. SNOWPLOW. ERICK A. BRATTLIEN, Kensington, Minn. Filed Apr. 23, 1929. Serial No. 357,582. 6 Claims. (Cl. 37—43.)



1. An apparatus of the class described comprising a vertical plate, a flange projecting forwardly from the bottom edge of the plate to form a share, a baffle extending across the upper portion of the plate forwardly thereof, a fan like member rotatably mounted forwardly of the plate, a pair of side beaters rotatably mounted on vertical axes one to each side of the fan like member a pair of augers mounted forwardly of the lower corners of the plate on horizontal axes.

1,784,332. LIQUID ELECTRIC CONTROLLER. HERBERT BROOKE, Brighton, England. Filed Jan. 31, 1928, Serial No. 250,914, and in Great Britain Mar. 3, 1927. 5 Claims. (Cl. 201—57.)

1. A liquid electric controller comprising a trough containing an electrolyte, a fixed electrode, a horizontally moving electrode, means for effecting the horizontal movement of the moving electrode, a vertically moving weir provided in the trough and means for effecting the vertical movement of the weir, the said horizontal and vertical movements being mechanically coupled together



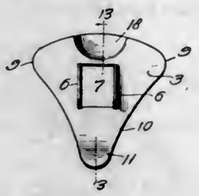
to move the movable electrode away from the fixed electrode at the same time that the weir is lowered to vary the extent of immersion of both electrodes.

1,784,333. HATBOX. GENEVIEVE BRUER, San Francisco, Calif. Filed Dec. 10, 1928. Serial No. 324,939. 4 Claims. (Cl. 206—8.)



1. The combination with a support, of a hat retaining member including a flexible strip bent substantially in U-shape, the free ends of said strip being inserted through slots in said bottom and bent inwardly towards one another, thereby creating a positive force acting through said strip to maintain an outward bulge in the opposite side walls of the strip above the support.

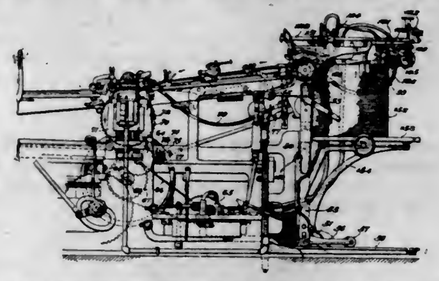
1,784,334. KNIFE GUARD. PRESTON D. CALLUM, Baltimore, Md. Filed Sept. 9, 1925. Serial No. 55,212. 6 Claims. (Cl. 30—9.)



1. A knife guard comprising, a plate having corresponding and oppositely disposed wings, a downwardly projecting lip, the end of the lip being curved backward, flanges formed integral with the body of the plate between the wings, an aperture formed centrally between the wings and demountable fastening means in the flanges.

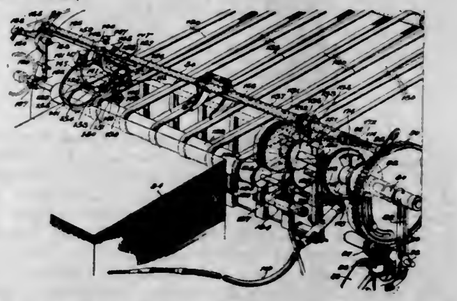
1,784,335. SHEET-FEEDING DEVICE. CARL E. CHRISTOPHEL, deceased, Pearl River, N. Y., by The First National Bank and Trust Company of Pearl River, N. Y., executor; said Christophel assignor to Dexter Folder Company, New York, N. Y., a Corporation of New York. Original application filed Aug. 14, 1924, Serial No. 732,046, and in Great Britain Aug. 10, 1925. Divided and this application filed Jan. 3, 1927, Serial No. 158,770. Renewed May 21, 1930. 18 Claims. (Cl. 271—62.)

1. In combination, a governor roller, a pile elevating mechanism, a control member cam operated in one direction and spring-operated in the opposite direction, connections between said roller and said member, and a



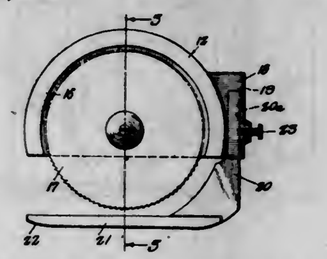
cam surface movable with said member and adapted to actuate said connections during the pile elevating operation to relieve the pressure of said roller on the pile.

1,784,336. SHEET-FEEDING DEVICE. CARL E. CHRISTOPHEL, deceased, Pearl River, N. Y., by The First National Bank and Trust Company, Pearl River, N. Y., executor; said Christophel assignor to Dexter Folder Company, New York, N. Y., a Corporation of New York. Original application filed Aug. 14, 1924, Serial No. 732,046, and in Great Britain Aug. 10, 1925. Divided and this application filed Jan. 3, 1927, Serial No. 158,771. Renewed Sept. 27, 1929. 14 Claims. (Cl. 192—126.)



1. In a calipering mechanism for sheet feeding devices, a clutch, a clutch throw-out shaft, means carried thereby for operating said clutch, calipering mechanism for the sheets being fed, a pendant provided with a tooth, a driven shaft provided with a ratchet, connections between said pendant and the throw-out shaft, and means controlled by said calipering mechanism permitting said ratchet to engage said tooth to operate said throw-out shaft.

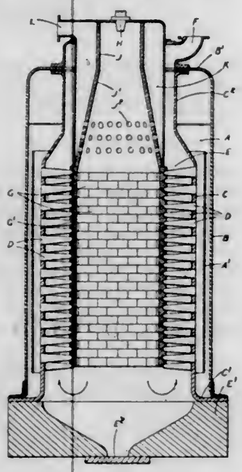
1,784,337. CAST OR SPLINT REMOVING DEVICE. BRUCE E. CLARKE and ARTHUR A. SCHLEW, Tulsa, Okla. Filed Feb. 25, 1929. Serial No. 342,620. 1 Claim. (Cl. 128—317.)



In a device for removing surgical casts, a rotatable cutting element, a guard for said element, an arm extend-

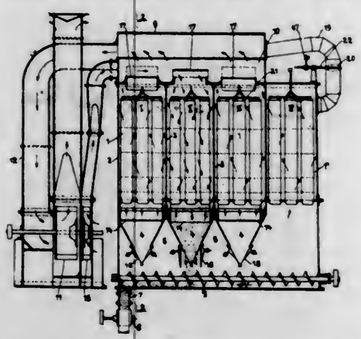
ing from the guard, a plate carried by and extending at right angles to the arm adjacent the edge of the cutting element and having its engaging surface rounded at its ends, and rollers journalled in the plate and having portions of their peripheries projecting beyond the engaging surface of the plate, said rollers being located one near each edge of the plate.

1,784,338. STEAM GENERATOR OR WATER HEATER. THOMAS CLARKSON, London, England. Filed Feb. 23, 1929, Serial No. 342,082, and in Great Britain May 4, 1928. 18 Claims. (Cl. 122—173.)



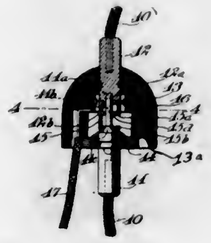
1. A water heater including in combination a vertically arranged annular water chamber surrounding a heating space, a closure for one end of this heating space, a series of closed-ended water tubes radiating inwards from the inner circumferential wall of the water chamber into the heating space, a built-up tubular combustion member formed of refractory material supported on the inner ends of the water tubes, and means for delivering hot gases through the end of the tubular combustion member which lies adjacent to the open end of the heating space.

1,784,339. FILTERING APPARATUS. FRIEDRICH CLASEN, Lubeck, and HEINRICH LENCKERSTORF, Stockelsdorf, Germany, assignors to Maschinenfabrik Beth, Aktiengesellschaft, Lubeck, Germany, a Corporation of Germany. Filed Dec. 21, 1928, Serial No. 327,619, and in Germany Oct. 1, 1928. 3 Claims. (Cl. 183—57.)



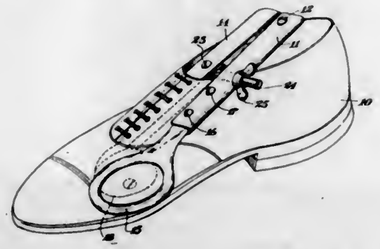
1. A filtering apparatus, comprising filtering chambers, filtering members in said filtering chambers, passages adapted to be connected with said chambers respectively at opposite sides of the filtering members, means to supply air or gas to be purified through one of said passages and into said chambers at one side of the filtering members and to remove the air or gas from the opposite side of said members and the passage connected therewith, a subsidiary filtering chamber comprising a filtering member and connected at opposite sides thereof respectively with said passages, means to produce a counter-current of air or gas through said main filtering chambers, through said subsidiary filtering chamber and through the passage through which the purified air is removed, and gates controlling the flow of said current and counter-current through said filtering chambers.

1,784,340. ELECTRICAL CONNECTER. CLARENCE H. CONANT, Chicago, Ill. Filed June 18, 1926. Serial No. 116,936. 3 Claims. (Cl. 173—363.)



1. A connecter comprising a bell-housing of insulation having a rim, a terminal carried by the housing, a bottom closure for the latter and spaced from the rim thereof, a plug carried by the closure, a yieldable jack for the plug carried by the terminal, and means to lock the plug in the jack, said jack having sections containing slightly staggered plug-receiving perforations conducive to tension of the jack upon the plug.

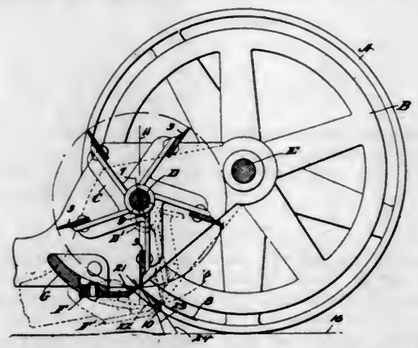
1,784,341. SHOE STRETCHER. ITALO FANTINO, New York, N. Y. Filed Feb. 2, 1929. Serial No. 337,095. 3 Claims. (Cl. 12—129.2.)



1. A device for stretching shoes including an oval-shaped loop member positioned diagonally on a shank and a knob-like member of like contour adapted to be moved into the loop member to stretch the material of the shoe positioned therebetween.

1,784,342. LAWN MOWER. FRANK T. FARMER, Detroit, Mich., assignor of one-half to Robert E. Farmer, New York, N. Y. Filed May 5, 1925. Serial No. 28,144. 6 Claims. (Cl. 56—294.)

1. A lawn mower provided with drive wheels, end frames supported by the drive wheels and by a ground roller, a rotary reel provided with knives and carried by the end frames, a cutter bar blade relative to which the said knives rotate and means for adjusting the position



of the cutting elements so that their cutting edges are in vertical alignment with the axis of said rotary reel to cut the grass at the maximum length.

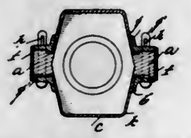
1,784,343. NEW AZO DYESTUFFS. ERNST FELLMER, Leverkusen-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Feb. 25, 1928, Serial No. 257,098, and in Germany Aug. 17, 1922. 8 Claims. (Cl. 260—83.)

1. As new products the azodyestuffs having the general formula:

$$R-N=N-\overset{Y}{X}-N=N-R_1$$

wherein X represents the residue of a p-diamine of the benzene or naphthalene series having not more than ten carbon atoms in nuclear linkage, Y represents a substituent of the group consisting of halogen, alkyl, alkoxy and R and R_1 represent a hydroxynaphthalene sulfonic acid azodyestuff coupling component, the hydroxy groups of which stand in ortho-position to the azo groups, which azodyestuffs are, after being dried and pulverized, in the shape of their alkali metal salts dark powders soluble in concentrated sulfuric acid generally with a blue to bluish green coloration, dyeing silk reddish-blue to black shades of excellent fastness to water which can be discharged to a pure white with hydrosulfite, which dyestuffs upon reduction with stannous chloride and hydrochloric acid, are split up into a substituted para diamino-compound and two molecules of amino-naphthol-sulfonic acid.

1,784,344. JOINT FOR MOLDS OPERATING BY CENTRIFUGAL FORCE. PAUL FERRIER, Paris, France. Filed Sept. 21, 1928, Serial No. 307,466, and in France Mar. 24, 1928. 3 Claims. (Cl. 25—30.)



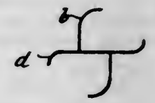
3. In a centrifugal molding apparatus, a mold divided into two sections, angle bars secured at the meeting edges of the sections, said bars having holes in their projecting side, joint pieces having a bore therein secured between the angle pieces, the inner face of the joint pieces coming flush with the inner surface of the mold, a plate secured to the outer edge of each joint abutting the angle bars and preventing said joint pieces from projecting into the mold, and means for securing said joint pieces in position.

1,784,345. MEANS FOR POSITIONING MOLD PATTERN UNITS. THEODORE J. FLACK, Brooksville, Fla. Filed Jan. 16, 1929. Serial No. 332,776. 1 Claim. (Cl. 22—158.)



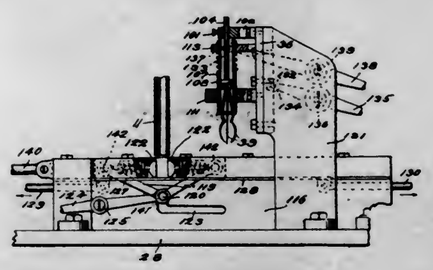
Means for use in the proper positioning of pattern units for the casting of a composite of the units, embodying means for effecting the correct positioning of one of the units with respect to another, the said means comprising anchor blocks for disposal in juxtaposition to the said other unit, and a fin extending from one side of each block to be engaged by notches in the unit to be positioned.

1,784,346. COOLING MEANS FOR CASTINGS. LUDWIG FÖBUS, Dortmund-Barop, Germany. Filed Dec. 24, 1929, Serial No. 416,232, and in Germany Jan. 2, 1929. 10 Claims. (Cl. 22—174.)



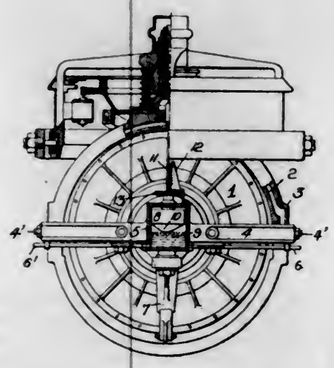
1. Cooling body for foundry purposes, comprising a cross-sectionally ramified strip of sheet metal.

1,784,347. FRUIT-PITTING MACHINE. GIOVANNI FROVA, Milan, Italy. Filed Nov. 26, 1927, Serial No. 235,974, and in Italy Oct. 17, 1925. 17 Claims. (Cl. 146—19.)



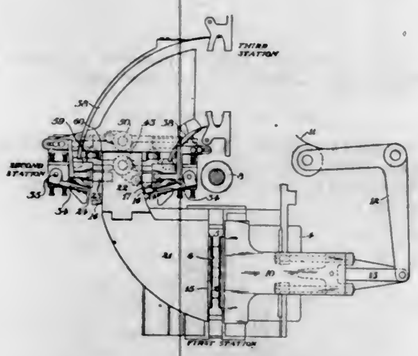
1. A fruit pitting machine comprising means for initially supporting fruit to be pitted, means for feeding fruit in predetermined position to such supporting means, means for grasping fruit on such supporting means, and means for grasping and removing pits from the fruit, and means for reciprocating said fruit grasping means between said fruit feeding means and said fruit pitting means.

1,784,348. LATITUDE ADJUSTMENT FOR GYROCOMPASSES. REGINALD E. GILLMOR, Washington, D. C., and RICHARD F. DEIMEL, Hoboken, N. J., assignors, by mesne assignments, to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed June 21, 1928. Serial No. 287,215. 6 Claims. (Cl. 33—226.)



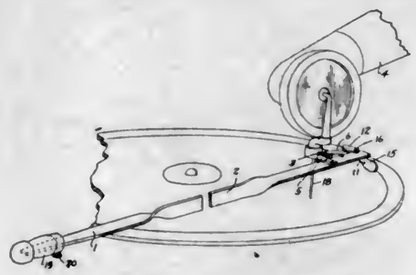
1. In a liquid-controlled gyro compass, means for varying the gravitational factor comprising a member adapted to engage the free surface of the liquid, and means for moving said member to different positions with respect to said surface to alter the free surface thereof.

1,784,349. MACHINE FOR WRAPPING CIGARS AND SIMILAR ARTICLES. FREDERICK GROVER, Leeds, England, assignor to The Forgrove Machinery Company Limited, Leeds, England. Filed Nov. 24, 1928. Serial No. 321,619. 12 Claims. (Cl. 93—7.)



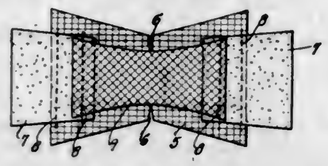
2. In a machine for wrapping cigars and similar goods having tapered ends, a turret head carrying grippers and mounted for progressive rotary movement interrupted by temporary stops at stations along the path of travel of said grippers, means at the first station for enclosing the goods in a wrapper of tubular form, means at the second station adapted to form the projecting ends of the wrapper with gussets, means for overlapping the side walls of said gussets one upon the other, and means at the third station for bending the projecting ends of said overlapped portions and means for ejecting the goods from the machine, the device at each station performing its particular portion of the entire operation simultaneously with the devices at the other stations.

1,784,350. VIBRATION CONDUCTOR FOR THE DEAF. AMEDEE GUERIN, San Francisco, Calif. Filed Feb. 1, 1928. Serial No. 251,133. 3 Claims. (Cl. 181—28.)



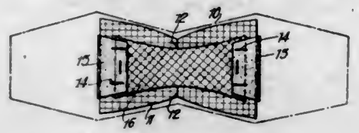
1. The combination with a reproducer having a projection, of a strip removably and pivotally secured to said projection, and a mouth-piece removably carried by said strip, said strip having a portion thereon bent for reinforcing it.

1,784,351. NECKTIE. MAX HALPERN, Bronx, and WILLIAM MAYER, Brooklyn, N. Y. Filed Nov. 6, 1929. Serial No. 403,240. 2 Claims. (Cl. 2—151.)



1. A lining insert for bow ties comprising a flexible body of a shape conforming to the shape of the wing of a bow tie, elastic tabs stitched to the ends of said flexible body, and extending therebeyond, and a relatively stiff strip of reinforcing material of a length and width less than the width and length of the body and disposed on one side of said body, the ends of said reinforcing strip overlapping said elastic tabs, and stitching passing through the overlapping ends of said reinforcing strip, elastic tabs and body, substantially as and for the purpose specified.

1,784,352. NECKTIE STRUCTURE. MAX HALPERN, Bronx, and WILLIAM MAYER, Brooklyn, N. Y. Filed Nov. 6, 1929. Serial No. 405,184. 4 Claims. (Cl. 2—151.)



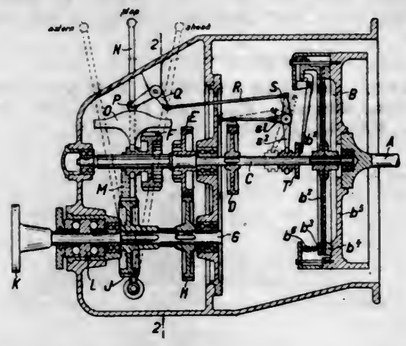
1. In a ready tied bow tie having a double wing member embodying front and rear plies of material, a stiff flexible body of a shape conforming to the general shape of said double wing member and disposed within said double wing member, elastic strips looped around opposite ends of said body and having their ends fixedly secured to opposite sides of said flexible body to cause the looped portions to bulge outward on opposite sides to distend the ends of the double wing member to maintain the same in a full expanded condition.

1,784,353. GUIDE AND PATTERN STRIP AND ANCHOR THEREFOR. GEORGE W. HARLEY, Collingswood, N. J. Filed Oct. 20, 1927. Serial No. 227,563. 10 Claims. (Cl. 94—17.)



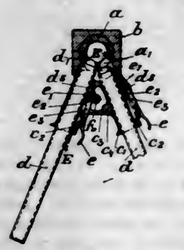
7. A division device for terrazzo flooring including a strip, and an anchor plate engageable through said strip and equipped with means to limit the extent of its movement through the strip.

1,784,354. DRIVE FOR MOTOR BOATS. KARL HAUSSMANN, Kiel, Germany, assignor to Fried. Krupp Germaniawerft Aktiengesellschaft, Kiel-Gaarden, Prussia, Germany. Filed Oct. 2, 1928, Serial No. 309,880, and in Germany Nov. 28, 1927. 4 Claims. (Cl. 74—58.)



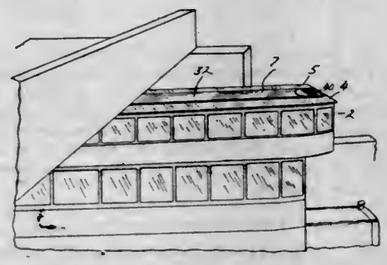
1. In a device of the character described, a driving shaft, a driven shaft, a reversing gearing intermediate said shafts, a clutch and a separate brake intermediate one of said shafts and said gearing, said gearing having control means for shifting it from one rotating direction to the other over a neutral position, a cam connected to said control means, transmitting means actuated by said cam, a rocking lever connected to said transmitting means, means connecting said lever to said clutch, separate means connecting said lever to said brake, said cam actuating said brake and said clutch in a definite sequence if moved out of its neutral position.

1,784,355. AUTOMATIC FIREARM WITH TWO CARTRIDGE MAGAZINES. FRITZ HERLACH and THEODOR RAKULA, Dusseldorf, Germany, assignors to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Filed June 4, 1929, Serial No. 368,396, and in Germany Jan. 31, 1929. 7 Claims. (Cl. 42—3.)



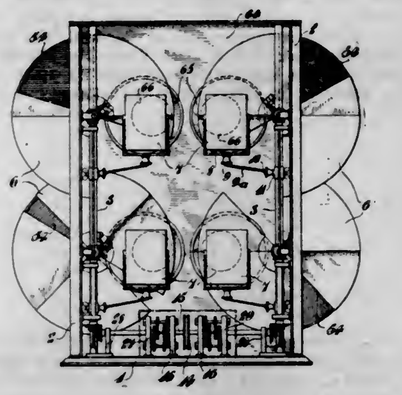
1. An automatic firearm having at least two magazine chambers and a cartridge magazine adapted for insertion in each chamber; means for locking one of said magazines in cartridge-feeding position; and means for securing the other magazine out of feeding position; means for unlocking the magazine from which the cartridges have been fired; and means responsive to the action of said unlocking means for ejecting said magazine and for automatically shifting the other magazine into feeding position.

1,784,356. COVER FOR BUSES. DANIEL N. HYMAN, Detroit, Mich. Filed Mar. 8, 1926. Serial No. 93,199½. 12 Claims. (Cl. 296—105.)



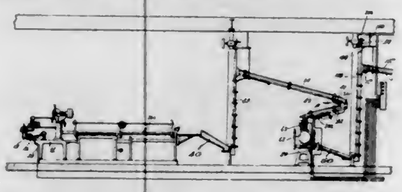
1. The combination with a motor bus having an upper deck provided with an open aisle, and top sections at each side of said aisle, of a collapsible cover for said aisle including a plurality of bows extending transversely of said aisle and having the leg portions thereof pivoted on said top sections, a flexible covering for said bows, stiffening means for said covering including bars extending longitudinally of said covering, and means for flattening said covering on said bows when the cover is collapsed including bars extending transversely of the covering and secured to the bars aforesaid.

1,784,357. APPARATUS FOR THE PROJECTION OF LIGHT RAYS. GILBERT THORNTON-JONES, Sherwood, Nottingham, England. Filed Apr. 12, 1929, Serial No. 354,639, and in Great Britain June 20, 1928. 10 Claims. (Cl. 240—3.)



1. Apparatus for projecting light rays embodying a light projector, a shutter in front of said light projector, said shutter composed of a plurality of members located one in front of another, openings in said shutter members, means for effecting continued motion of the shutter members relatively to each other to vary the formation of the light passages through the combined shutter members, and means for producing coloured light effects by the light beam projected through the shutter.

1,784,358. LINE CONTROL FOR CAN-MAKING MACHINERY. LYMAN L. JONES, Seattle, Wash., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 25, 1925. Serial No. 58,562. 37 Claims. (Cl. 113—115.)



1. The combination of associated machines for performing operations on can bodies and the like, automatically operating transferring devices receiving partly formed can bodies and the like from a said machine and delivering them to a successively operating machine, and an electric control determining the operation of a said machine in accordance with operating conditions in a second said machine.

1,784,359. MINERAL-OIL COMPOSITION. CHARLES F. KAEGEBEHN, Hoboken, N. J., assignor to R. T. Vanderbilt Co., Inc., New York, N. Y., a Corporation of New York. Filed Jan. 31, 1929. Serial No. 336,656. 6 Claims. (Cl. 87—9.)

1. A mineral oil composition comprising in addition to the oil a fraction of a percent of a hydroxy-diphenyl.

1,784,360. FATTY-OIL COMPOSITION. CHARLES F. KAEGEBEHN, Hoboken, N. J., assignor to R. T. Vanderbilt Co., Inc., New York, N. Y., a Corporation of New York. Filed Jan. 31, 1929. Serial No. 336,657. 7 Claims. (Cl. 23—250.)

1. A stabilized fatty acid glyceride which comprises a small amount of a phenol having a nuclear H atom substituted by an aryl group.

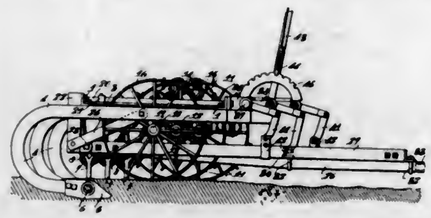
1,784,361. MEANS FOR ATTACHING SEAT COVERS AND THE LIKE. GEORGE A. KING, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Original application filed Nov. 1, 1927, Serial No. 230,287. Divided and this application filed Mar. 26, 1929. Serial No. 350,019. 6 Claims. (Cl. 24—150.)



1. Means for attaching seat covers and the like, including a hook pin consisting of an attaching pin portion having a bend or head and a hook hinged to said bend or head and adapted to swing freely on said bend or head.

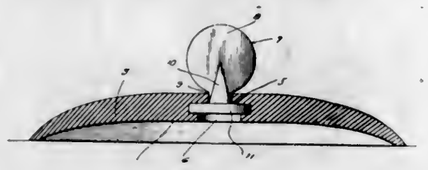
1,784,362. GANG WEEDER WITH TRACTOR HITCH. RALEIGH M. LARGENT, Walla Walla, Wash., assignor to Cheney Weeder Company, Cheney, Wash., a Corporation of Washington. Filed June 9, 1927. Serial No. 197,706. 30 Claims. (Cl. 97—42.)

1. In combination with a plurality of rotary rod weeder units each including a body having rod supports and a rotatable rod journaled in bearings on said supports, said units also including supporting and driving wheels; means flexibly connecting said units together endwise on longitudinal axes whereby said units may rise and fall to accommodate them to the surface of the ground traversed,



the rotary rod of one unit projecting to overlap an adjacent unit whereby to treat the ground by the rods in a continuous way from the outer end of one end unit to the outer end of the opposite end unit for the purposes specified, and a draft appliance connected to the several units.

1,784,363. GOLFER'S PRACTICE TARGET. GEORGE LESTER, Milwaukee, Wis. Filed July 16, 1929. Serial No. 378,697. 1 Claim. (Cl. 273—35.)



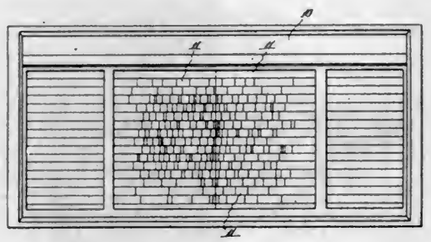
A golf practice device of the class described comprising a circular concavo-convex rubber base having a central opening and a retaining channel, a detachable target comprising a disc-like rubber flap, a neck attached thereto and extending through said opening, and a disc like head carried by said neck and removably seated in said channel.

1,784,364. CHANGEABLE EXHIBITOR. ELAINE VON DER LIPPE-LIPSKI, Washington, D. C. Filed Oct. 24, 1929. Serial No. 402,281. 5 Claims. (Cl. 40—76.)



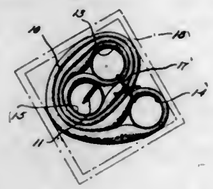
1. A changeable sign or picture exhibitor comprising a plurality of bars or units having media faces on which the different signs or pictures are depicted to be brought successively in coplanar relation, auxiliary units independently rotatable between adjoining main bars or units and having portions of the sign or picture depicted on the media faces thereof, means for turning the main bars or units, and means for turning the auxiliary units independently of said main bars or units.

1,784,365. ANIMATED SIGN. ELAINE VON DER LIPPE-LIPSKI, Washington, D. C. Filed Mar. 22, 1930. Serial No. 438,072. 6 Claims. (Cl. 40—76.)



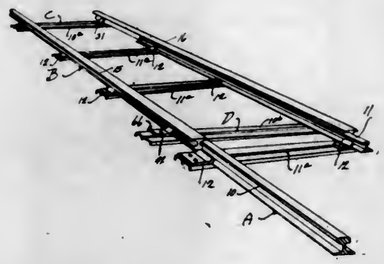
1. A changeable sign exhibitor comprising rotatable bars or units having a plurality of media faces adapted to be brought successively into coplanar relation with respect to front of the sign, pins projecting from the ends of the bars or units and corresponding in number to the media faces and in spaced relation thereto, means engaging the pins for rotating the bars or units in one direction, and means engaging the pins for reversing the rotation of said bars or units.

1,784,366. METHOD OF PACKING TUBES. LLOYD M. LITTLEFIELD, Chicopee Falls, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Oct. 11, 1929. Serial No. 398,929. 3 Claims. (Cl. 206—46.)



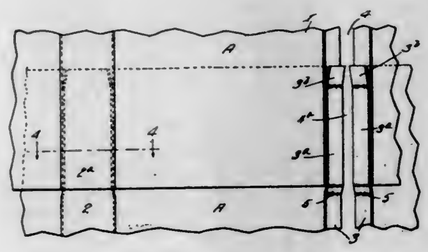
2. The method of packaging an inner tube which comprises winding the tube about a plurality of shells and securing the shells together to hold the tube convolutions in position.

1,784,367. TEMPORARY EXTENSION FOR MINE RAILWAYS. ARMISTEAD R. LONG, Scarbro, W. Va. Filed Apr. 27, 1929, Serial No. 358,641. Renewed Oct. 20, 1930. 26 Claims. (Cl. 238—10.)



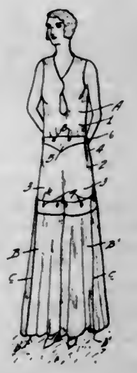
1. In a railway extension unit a tie having releasable clamps separated to receive therebetween the head and web portions of an inverted rail in an unobstructing relation with the normal foot portion of said rail, one of said clamps comprising a pivoted clamp swingable in the plane of the tie into and out of engagement with the head and web of an inverted rail placed on the tie.

1,784,368. SHEET-METAL BUILDING CONSTRUCTION. JAMES F. LOUCKS, Cleveland, Ohio, assignor to Detroit Steel Products Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 17, 1927. Serial No. 233,853. 4 Claims. (Cl. 189—85.)



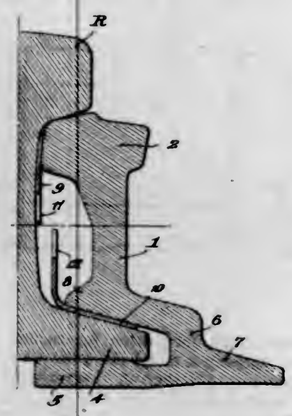
2. A sheet metal foundation for roofing construction, the same comprising a metal sheet having hollow ribs extending from one side thereof, there being a narrow slot provided between each of the ribs and the body of the sheet whereby the surface of the sheet opposite the said ribs is a substantially continuous load-carrying surface, the end portions of the ribs at one end of the sheet diminishing in cross-sectional area toward such end and being provided on each side thereof with a projection constituting a stop to limit the insertion of such reduced ends of the ribs of said sheet into the ribs on the opposite end of a like sheet.

1,784,369. WOMAN'S COMBINATION OR CONVERTIBLE GARMENT. RALPH LOWENBAUM, St. Louis, Mo., assignor to R. Lowenbaum Mfg. Co., St. Louis, Mo., a Corporation of Missouri. Filed Sept. 2, 1930. Serial No. 479,140. 3 Claims. (Cl. 2—72.)



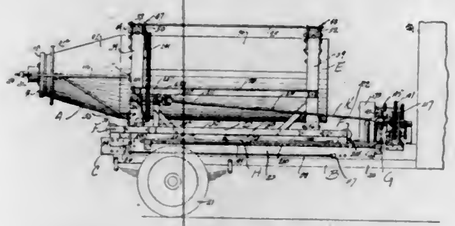
3. In an article of women's wearing apparel, a foundation-garment comprising a waist and short drawers, in combination with separate companion sections, and series of fastening on each of said sections and on the waistline of the garment and on, and below the crotch of, the drawers for co-operative engagement for selective detachable connection of said sections to the waist or drawers of the garment for converting the garment into either pajama or dress-formation.

1,784,370. CONSTRUCTION FOR REHABILITATING RAIL JOINTS. MILTON MARKLEY, Harrisburg, Pa., assignor to The Rail Joint Company, New York, N. Y., a Corporation of New York. Filed Jan. 22, 1930. Serial No. 422,627. 10 Claims. (Cl. 238—188.)



1. A rehabilitated rail joint structure including the rails, a splice bar having bearing engagement with the rail head and a clearance from the outer portion of the head fishing surface of the rail, and a wear compensating spacing member interposed between the foot of the bar and the rail flange.

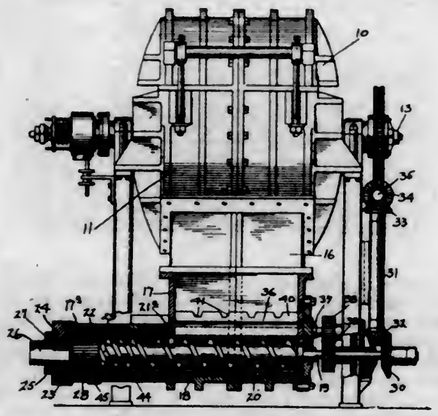
1,784,371. CONCRETE MIXER. CHARLES K. MARKS, Womelsdorf, and WALTER G. WEINHOLD, Shillington, Pa. Filed Oct. 5, 1929. Serial No. 397,556. 11 Claims. (Cl. 83—73.)



1. In a concrete mixing device the combination of a frame, a rotary mixing drum, means for releasably pivoting the rotary mixing drum at each end upon said frame, and hoisting means to hoist the rotary mixing drum on the effective pivot means at one end of the drum for elevating the other end of the drum.

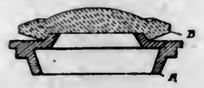
1,784,372. CAKE-DISCHARGING MEANS FOR PRESSURE FILTERS. JASPER A. MCCASKELL, Salt Lake City, Utah. Filed Oct. 7, 1925. Serial No. 61,152. 10 Claims. (Cl. 210—201.)

1. In a continuous pressure filter of the class described, a closed casing adapted to receive material to be filtered, a rotating leaf filter medium partially submerged in the liquid to be filtered, means to subject the filter medium and the liquid to be filtered to a super-atmospheric gaseous pressure, means to dislodge filter cake from the filter medium and discharge said cake into a cake receiving compartment communicating with said casing and subjected to said super-atmospheric gaseous pressure, and means to discharge the filter cake from said compartment without loss of said pressure which comprises a screw conveyor, a discharge valve at the end of said conveyor,



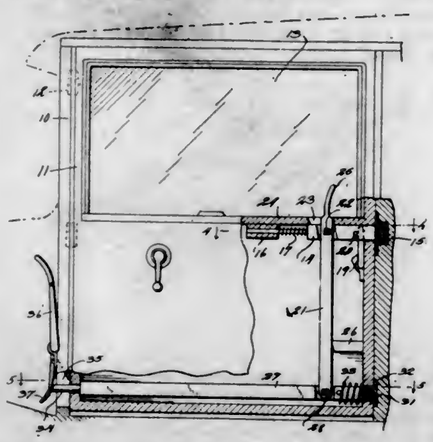
said valve having a conical end thereon, and resilient means to actuate said valve to oppose the discharge of said filter cake with a pressure proportional to said super-atmospheric pressure.

1,784,373. POTTERY MOLD AND METHOD OF MAKING THE SAME. WILLIAM J. MILLER, Swissvale, Pa. Filed Jan. 19, 1927. Serial No. 162,140. 11 Claims. (Cl. 25—129.)



1. A mold of the class specified, comprising a standard base member and a renewable body member, said members being formed with cooperating recesses and projections for removable association of one with another.

1,784,374. DOOR-OPENING DEVICE. WILLIAM MILLER, Ritzville, Wash. Filed Apr. 22, 1930. Serial No. 446,378. 6 Claims. (Cl. 268—3.)



1. A door opening device of the character described comprising a door bolt adapted to be mounted in a hollow door

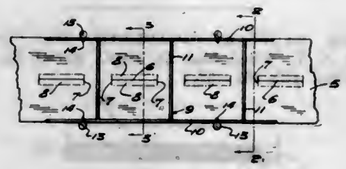
structure, means for slidably mounting the door bolt in the door frame, a door opening member slidably mounted within the door frame, link means connecting the member with said door bolt, and rockable operating means engaging one end of the member for coactively moving the member and the bolt within the door frame to unlock and open the door.

1,784,375. CURTAIN FIXTURE. JOHN L. MOHUN and HENRY PIESCH, Omaha, Nebr., assignors to National Lock Washer Company, Newark, N. J., a Corporation of New Jersey. Filed Dec. 9, 1929. Serial No. 412,628. 8 Claims. (Cl. 156—26.)



4. A curtain fixture for a window, comprising a hollow bottom bar made of metal within the upper edges of which bar the lower edge of the curtain is secured, blocks fixed within said bar near the ends thereof, members supported by said blocks and extending beyond the bar and adapted to track within suitable ways in the sides of the window casing, spaced movable blocks within said bar near the central portion thereof, brake rods extending loosely through said end blocks and having operative connection with said members and secured at their inner ends to said movable blocks, spring means acting upon said movable blocks and functioning to normally force the latter apart, and means for adjusting said spring means.

1,784,376. PAPER MULCH AND REENFORCING AND RETAINING MEANS THEREFOR. DAVID PELTON MOORE, Avon Park, Fla. Filed May 22, 1928. Serial No. 279,701. 11 Claims. (Cl. 47—9.)



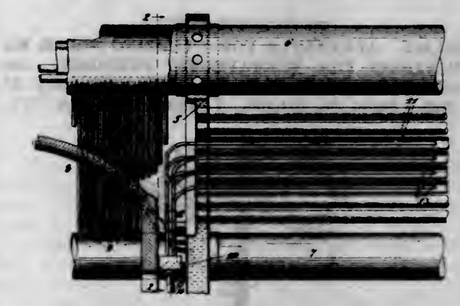
1. A retaining means for a strip of mulch paper and adapted to be placed on top of the flat laid paper, said means having parallel and longitudinal members connected by cross members.

1,784,377. SET SCREW. GEORGE A. MOORE, Boston, Mass. Filed Feb. 20, 1930. Serial No. 429,927. 2 Claims. (Cl. 85—1.)



1. A set-screw having a driving tool-engaging outer end, a threaded periphery, an abutment-engaging inner end, and a longitudinal bore extending from the inner end, and having a closed end or bottom constituting a pressing face, an inner portion intersecting said face and of relatively small diameter, and an outer portion of larger diameter, combined with a helical spring inserted in the bore and normally projecting from the inner end of the screw, the inner end portion of the spring being in frictional binding engagement with the inner bore portion and bearing on the pressing face, the outer end portion of the spring extending loosely through the outer bore portion, so that it is free to expand and contract lengthwise, the outer end convolution of the spring being inclined so that it constitutes a one-way acting dog adapted to slip on an abutment when the screw is turned in one direction, and have a biting engagement with the abutment to oppose a turning movement of the screw in the opposite direction.

1,784,378. LOCOMOTIVE SUPERHEATER. JOHN E. MUHLFELD, Scarsdale, and JOHN C. CHAPPLE, Brooklyn, N. Y. Filed Apr. 20, 1927. Serial No. 185,100. 3 Claims. (Cl. 122—461.)

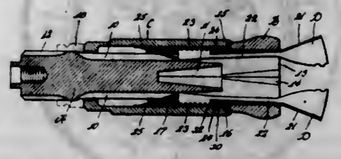


2. In combination with a fire tube boiler and a fire box, a superheater header mounted adjacent to the boiler flue sheet and below the path of flow of the products of combustion.

1,784,379. PROCESS OF REDUCING ORGANIC KETO COMPOUNDS. EDUARD MÜNCH, Ludwigshafen-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed May 19, 1927, Serial No. 192,796, and in Germany June 24, 1926. 5 Claims. (Cl. 260—52.)

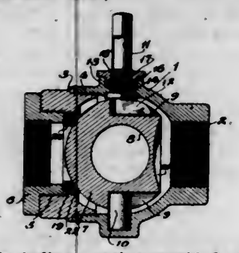
1. The process which comprises subjecting an organic compound containing a keto group to the action of sulfurous acid and formic acid in the presence of an organic base, but substantially in the absence of water.

1,784,380. BIT OR DRILL HOLDER. WALTER B. MURDOCH, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a Corporation of Connecticut. Filed July 19, 1928. Serial No. 293,897. 5 Claims. (Cl. 279—52.)



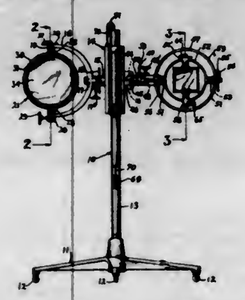
1. In a chuck of the character described, a body portion having a core and a head, said core having a socket and longitudinally extending grooves in its opposite sides, jaw elements slidably mounted in said grooves, a sleeve about said core and having an internal thread, said jaw elements having threaded portions engaging said thread, and means on said body portion bridging said grooves adjacent their forward ends and against which the forward ends of said threaded portions are adapted to engage.

1,784,381. VALVE. FRANK J. O'STROSKE, Columbus, Ohio. Filed Nov. 28, 1927. Serial No. 236,289. 9 Claims. (Cl. 251—113.)



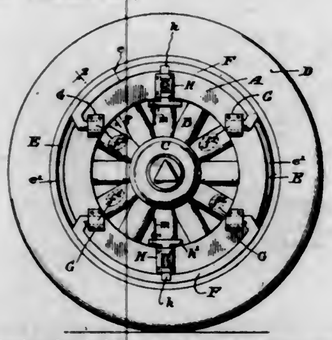
1. A valve including a casing provided with two internal seats at one end thereof, and a valve head in said casing mounted for rotary and reciprocatory movement, one of said seats being normally inoperative.

1,784,382. APPARATUS FOR UTILIZING SOLAR RADIATIONS FOR THERAPEUTIC PURPOSES. ASBJÖRN P. OUSDAL, Santa Barbara, Calif. Filed Nov. 27, 1926. Serial No. 151,166. 7 Claims. (Cl. 174—177.)



1. In a therapeutic apparatus means for directing solar rays upon an area comprising a base, a standard on said base, an arm on said standard, a lens frame mounted on said arm, a lens in said frame, a hollow member on said lens frame and projecting therefrom, said member having an opening therein, and a removable closure for said opening.

1,784,383. TIRE RIM. EUGENE PATRONE, Washington, D. C. Filed Nov. 10, 1925. Serial No. 68,168. 3 Claims. (Cl. 152—21.)



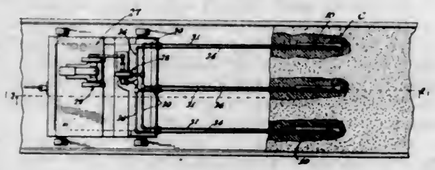
1. A device for holding a tire on a wheel comprising a curved holding member extending over more than 1/7 of the periphery of the wheel, pivotally engaged at two opposite ends, the outer extent in toto of the curved holding member being swingable inwardly of the inner periphery of the tire, and locking means engaging the curved holding member between its pivoted ends for securing the curved holding member in operative position.

1,784,384. WATER-COOLED WELDING CABLE-JOINT CONSTRUCTION. JAMES J. PAUGH, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 29, 1929. Serial No. 358,825. 13 Claims. (Cl. 219—4.)



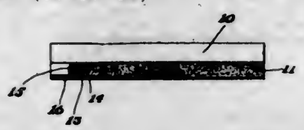
1. In a welding apparatus, the combination with a flexible conducting cable and a tubular welding head of a plug removably receivable in adjacent ends of said cable and head and adapted to electrically connect said elements together, said plug having a bore extending therethrough providing a water conduit between said cable and said head.

1,784,385. COMPACTING MECHANISM. JOHN C. PELTON, Santa Barbara, Calif. Filed Nov. 5, 1929. Serial No. 405,041. 5 Claims. (Cl. 259—72.)



1. An apparatus for compacting plastic masses comprising a casing, a hose connected to one end of said casing, a head formed of metal having a port or passage extending therethrough connected to said hose, and means for inducing a circulation of fluid through said hose and the passage through said head, whereby the re-action of fluid discharging therefrom against the side wall of said casing will impart vibratory movement to said head which through striking on the side wall of said casing will impart vibration thereto.

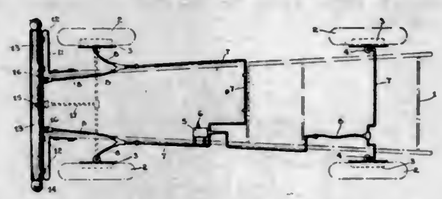
1,784,386. SANITARY CIGARETTE. MAX POECK, New York, N. Y. Filed Aug. 23, 1928. Serial No. 301,511. 1 Claim. (Cl. 131—52.)



In a cigarette having a wrapper and a filling of tobacco, a filtering pad, a tubular holder adapted to be releasably mounted in one end of said wrapper, said pad being housed in said tubular member, a conical wall closing on one end of said tubular member, said pad resting in said conical end, said conical wall having openings therein to permit passage of smoke from one end of the cigarette through the filtering pad and out of the open end of the tubular member and raised points on said tubular member for frictionally binding the wrapper to the tubular member.

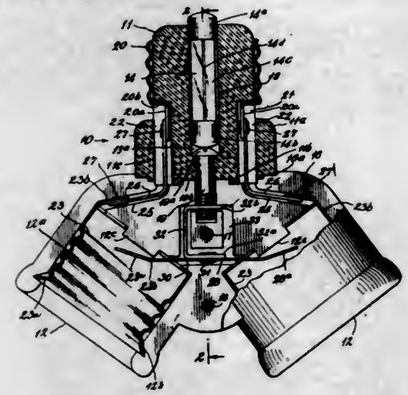
1,784,387. BRAKE MECHANISM FOR MOTOR VEHICLES. JOHN WILLIAM POSTEL, Palisade, N. J. Filed Feb. 21, 1929. Serial No. 341,617. 6 Claims. (Cl. 180—83.)

1. A device of the character described comprising motor vehicular means, braking mechanism therefor, hydraulic pressure valves associated with said braking mechanism, a hydraulic fluid supply chamber, a pneumatic bumper mounted on said vehicular means arranged to receive fluid from said hydraulic supply chamber, fluid ducts connected up with said pressure valves said supply chamber and said bumper, and means whereby when pressure from



contact distorts said bumper the fluid pressure therein affects said valves to actuate said braking mechanism of said vehicular means.

1,784,388. ELECTRIC SOCKET FITTING. LOUIS PROPP, New York, N. Y., assignor to The M. Propp Co. Inc., New York, N. Y., a Corporation of New York. Filed June 3, 1927. Serial No. 196,236. 15 Claims. (Cl. 200—115.5.)



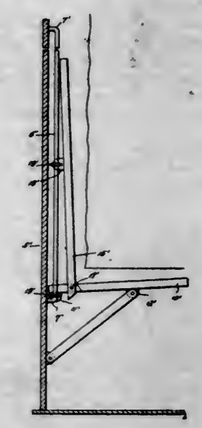
1. A fitting of the character described comprising a body formed of a plurality of separate parts, one of said parts forming a plug porton, and other parts constituting mating side portions forming the body of a lamp socket portion, said plug portion having a chamber, and a replaceable fuse element in said chamber having an extending end portion forming a center contact for said plug portion.

1,784,389. SHIFTABLE FASTENER. DANIEL I. REITER, New York, N. Y. Filed Apr. 27, 1929. Serial No. 358,456. 16 Claims. (Cl. 24—213.)



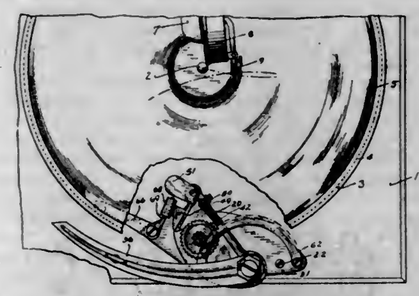
1. In a prolonged carpet fastener element, a stud provided with an annular flange member having an opening therein, a plate member supporting and guiding said flange for transverse movement in all directions, said plate member closing said opening, spaced inwardly bent lugs on one of said members providing a groove for the reception of the other member, and edge prongs on said plate member adapted to be passed upwardly through a carpet and bent thereover, said prongs being arranged between the lugs and entirely above said flange member and extending in a direction opposite to the direction of the stud whereby the stud lies entirely below the carpet to which the element is attached.

1,784,390. FOLDABLE CHAIR. HOWARD E. RICE, Miami, Fla. Filed July 16, 1929. Serial No. 378,969. 2 Claims. (Cl. 55—83.)



1. A foldable chair structure comprising a supporting structure, a seat section, a slidable connection between the inner end of the seat section and the said supporting structure, a back section, a pivotal connection between the back section and the inner end portion of the seat section, and a slidable connection between the said back section and the said supporting structure, the inner end of the said seat section being adapted to be lifted, so that the outer end will swing downwardly and cause the seat section to assume a position on substantially the same plane with the back section.

1,784,391. PHONOGRAPH STOP. WILLIAM C. ROE, Pittsburgh, Pa. Filed Dec. 17, 1927. Serial No. 240,773. 13 Claims. (Cl. 192—122.)

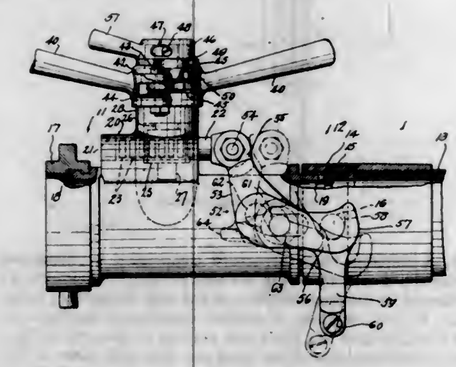


1. In combination with a phonograph of the type employing disc records, a turntable, a reproducer element adapted to traverse a record placed on the turntable, a pointer journalled laterally of the phonograph turntable and adapted to be swung over the upper surface of the supported record in a direction opposite to the direction of travel of the reproducer, a portion thereof adapted to be "set" in the path of the reproducer element at the end of the record thereon, a spring constantly exerting an effort to restore the pointer to its normal position; a ratchet mechanism adapted to retain the pointer in the path of the reproducer and means actuatable by a slight pressure contact of the reproducer element against the pointer to trip the ratchet mechanism whereby said spring will return the pointer to a normal position lateral of the record.

1,784,392. MANUFACTURE OF INSULATORS. DAVIDGE H. ROWLAND, Baltimore, Md., assignor to Locke Insulator Corporation, Baltimore, Md., a Corporation of Maryland. Filed Aug. 17, 1928. Serial No. 300,386. 5 Claims. (Cl. 25—156.)

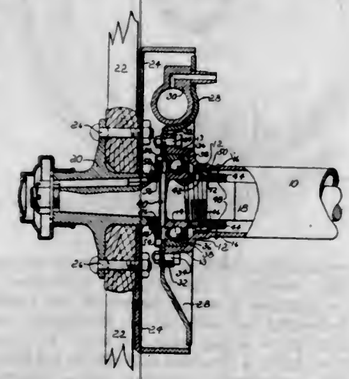
1. In the manufacture of porcelain insulators of the type having a portion provided with granular material united thereto, the step of subsequently applying glazing liquid upon said portion to coat the granular material.

1,784,393. THREADLESS COUPLING. MORRIS SCHAWROW, Bayonne, N. J. Filed Feb. 11, 1929. Serial No. 338,991. 12 Claims. (Cl. 285—171.)



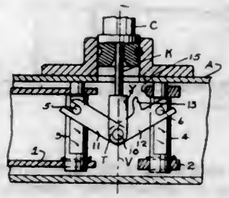
1. A device of the character described, including a plurality of separate members, and means to detachably interconnect the same, said means including a single rack and pinion carried by one of the members, a fastener portion on the other member, and a lever pivotally mounted on one of said members, said lever engaging both the rack and the said fastener portion and being swingable to disengage one of them.

1,784,394. AXLE CONSTRUCTION. OWEN R. SKELTON, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a Corporation of Delaware. Filed Dec. 19, 1927. Serial No. 240,965. 6 Claims. (Cl. 180—75.)



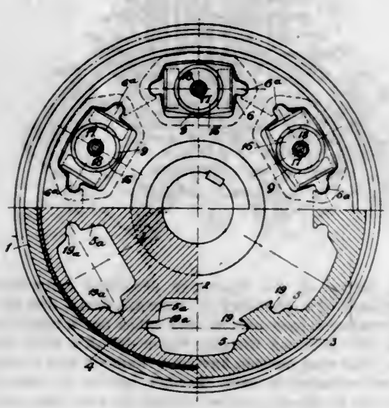
1. In an axle construction of the class described, an axle housing, an integral radially extended bell shaped portion at the outer end of said housing, a bearing in said extended portion, a radial flange at the outer edge of said bell shaped portion, and a brake mechanism supporting plate adapted to be secured to the outer surface of said flange and extending radially beyond the inner periphery of said bell shaped portion to hold said bearing.

1,784,395. BRAKE STRUCTURE. JOHN SNEED, Ferndale, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 7, 1928. Serial No. 290,955. 20 Claims. (Cl. 188—78.)



1. Toggle spreading mechanism comprising a pair of levers pivoted together, one of said levers having a normally idle arm adapted to include the fulcrum point for one end of the toggle when the pivot point of the toggle approaches the line which joins the normally operative ends of the toggle.

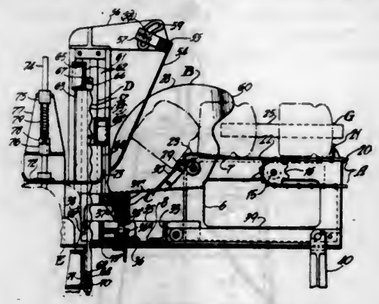
1,784,396. POWER-TRANSMISSION GEAR FOR INTERNAL-COMBUSTION ENGINES. WILLIAM JOSEPH STILL, London, England. Filed May 1, 1924, Serial No. 710,356, and in Great Britain May 14, 1923. 9 Claims. (Cl. 74—29.)



1. A power transmission gear comprising a flexible coupling in the form of a wheel, comprising a rim and a nave or hub, said rim being mounted on the nave or hub for relative circumferential movement, said rim and hub having intercalated flanges on their opposing faces and also having openings in said intercalated flanges adapted to register with each other in the undisplaced position of the parts of the coupling, wedges located in and bridging said openings and springs acting on the wedges and tending to resist any relative movement between the rim and the nave or hub thereby damping the oscillations, the arrangement being such that relative movement between the rim and the nave or hub causes the wedges to be moved and to compress their respective springs.

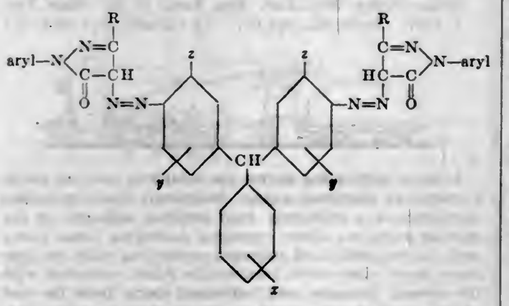
1,784,397. BREAD-SLICING MACHINE. ANTHONY TEWES, St. Louis, Mo., assignor to Papendick, Inc., St. Louis, Mo., a Corporation of Missouri. Filed Apr. 22, 1929. Serial No. 357,279. 9 Claims. (Cl. 146—153.)

1. In an automatic bread-loaf slicing machine, in combination, a stationary feed-plate, and means for successively delivering the loaves one by one to and upon the feed-plate from a plane thereabove, said means including an oscillatory member, rails on said member for supporting the loaf deposited therein, and yielding fingers for engaging the loaf for retaining the same upon the rails when the oscillatory member is in loaf-receiving position.



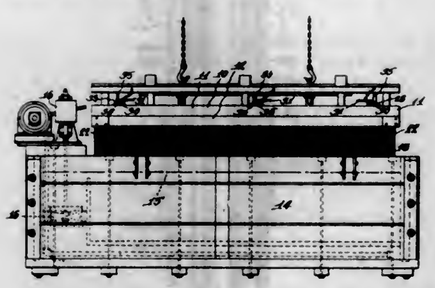
1,784,398. AZO DYESTUFFS. KARL THIESS, Frankfort-on-the-Main-Hochst, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed July 23, 1929, Serial No. 380,467, and in Germany Aug. 13, 1928. 6 Claims. (Cl. 260—76.)

1. As new products, the compounds of the following formula:



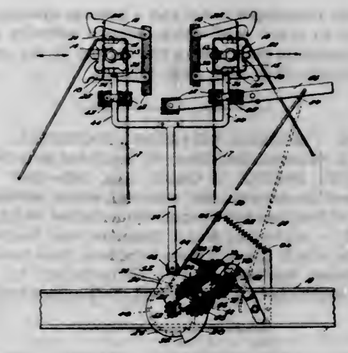
wherein x stands for hydrogen or halogen, y for halogen, z for hydrogen or a methyl group and R for hydrogen or an alkyl group and wherein each of the two aryl-residues contains halogen and a sulfo group, being greenish-yellow movement of the card cylinder.

1,784,399. MACHINE FOR DYEING AND TREATING YARN. JAMES HARRY THOMPSON, Trenton, N. J., assignor to Walker & Davis, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 17, 1929. Serial No. 378,926. 9 Claims. (Cl. 8—19.)



1. In a machine of the character indicated, a two-part rack including upper and lower parts to be used at different times together as a unit and apart as separate units, a lower side rail upon the lower part, an upper side rail upon the upper part vertically perforated and adapted to register with the lower side rail when the parts are together, a bolt fastened to place upon the lower rail having an upwardly extending portion adapted to pass through the perforation when the parts are together, a locking member vertically pivoted upon the upper surface of the upper rail having a hook portion adapted in locking position to span the bolt, and a downwardly directed abutment carried upon the upper portion of the bolt adapted to be engaged by an upwardly directed surface of the hook.

1,784,400. LOOM. LOUIS VISCOLOSI, Providence, R. I., assignor to The Esmond Mills, Esmond, R. I., a Corporation of Rhode Island. Filed Jan. 30, 1929. Serial No. 336,234. 11 Claims. (Cl. 139—324.)

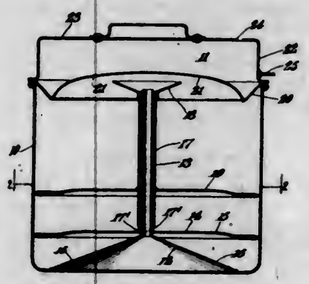


1. In a loom, in combination, a jacquard mechanism including a frame, a griff actuating lever mounted thereon, a card cylinder mounted on said frame, means to reciprocate said card cylinder, two oppositely disposed pawls for turning said cylinder on reciprocation thereof pivotally mounted on the jacquard frame on opposite sides of said cylinder, link means pivotally joining said pawls together, and a repeat mechanism comprising a cam rotatably mounted on the loom frame having a semi-circle of a relatively small radius and a semi-circle of a greater radius, a vertically reciprocable support having the upper and attached to the lower pawl and the lower end thereof resting on said cam, whereby when said end rests on the semi-circle of greater radius it will raise up said lower pawl to reverse the direction of rotation of the card cylinder and when said end contacts the portion of lesser radius on said cam, it will lower the connected upper pawl to a position to rotate the card cylinder forwards, a ratchet gear attached to said cam, a rod having the upper end thereof attached to and reciprocated by the griff actuating lever extending obliquely downwardly and having the lower end thereof terminating in a pawl end adapted to be moved to a position on reciprocation thereof to rotate said ratchet and attached cam, a train of reducing gearing actuated by said cam, and knockoff means for said reciprocating rod actuated on a complete rotation of the last gear in the reducing train of gearing after multiple revolutions of said cam to automatically permit continuous forward movement of the card cylinder.

1,784,401. WASHING DEVICE. SRINIVAS RAM WAGEL, New York, N. Y., assignor of seventy-five per cent to The Winchester American Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 31, 1927. Serial No. 216,649. 2 Claims. (Cl. 68—30.)

2. In a device of the character described the combination of a closed container, a support therein for articles

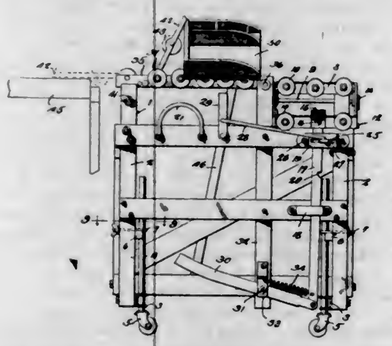
to be washed, means effective upon the heating of water in said container for causing upward discharge in said container of water and water vapor whereby said water vapor is liberated to saturate said articles, a trap for collecting the discharged water and a passage extending from said trap to below said article support whereby the discharged water is returned to the bottom of the container without contacting with said articles.



1,784,402. MONOSACCHARIDE MATERIAL. THEODORE B. WAGNER, Brooklyn, N. Y. Filed July 30, 1923. Serial No. 654,782. 1 Claim. (Cl. 127—38.)

The new monosaccharide material which consists of a mixture of dextrose and nongummy dextrines which may be produced by converting starch liquor by acid hydrolysis to a point at which the dextrines have lost their gummy and mucilaginous condition and is characterized by the absence of dextrines in a gummy and mucilaginous condition.

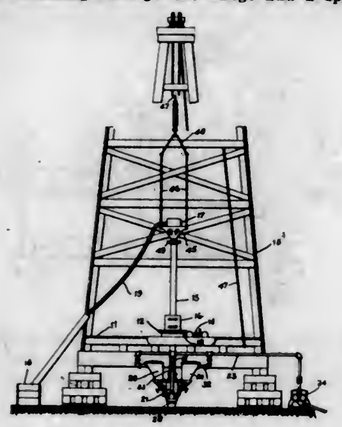
1,784,403. FRUIT-PACKING STAND. EDWIN R. WALKER, Yakima, Wash. Filed June 11, 1928. Serial No. 284,444. 5 Claims. (Cl. 226—129.)



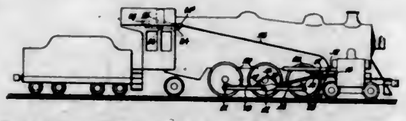
1. In a device of the class described, a frame, a packing table, a skid located at one side of the packing table, means for mounting the skid and the packing table on the frame for vertical swinging movement in directions at right angles to each other, and mechanism for holding the skid and the packing table in adjusted positions.

1,784,404. DRILLING APPARATUS. LOUIS H. WELLENSIEK, Houston, Tex. Filed Aug. 15, 1924. Serial No. 732,254. 7 Claims. (Cl. 255—24.)

4. In drilling apparatus, a casing head having an internal annular flange having a portion thereof provided with grooves and tongues, a plurality of arcuate members having grooves and tongues adapted to cooperate with the grooves and tongues of said annular flange and means for resiliently securing each of said arcuate members to said flange including a bolt secured to the arcuate member and extending through the flange and a spring surrounding the bolt, one end of which spring constitutes a seat for the enlarged end of the bolt whereby limited movement of the arcuate member is permitted.

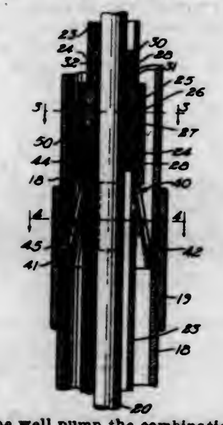


1,784,405. METHOD AND MECHANISM FOR LUBRICATING LOCOMOTIVE-DRIVING-ROD JOURNALS. ROGER STONE WILLIAMS, New York, N. Y. Filed July 8, 1927. Serial No. 204,167. 12 Claims. (Cl. 184—7.)



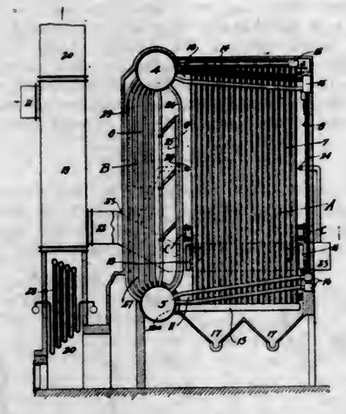
1. In a lubricating device for relatively moving parts, a source of lubricant supply, individual ducts extending therefrom to a relatively fixed position adjacent to the moving parts, an elbow connector including hinge joints each having individual passages connecting with the separate ducts, other ducts between the joints connected with the several passages, and individual ducts from the last of the joints to the bearings intended to be lubricated.

1,784,406. SHAFT-TUBING SUSTAINING DEVICE FOR DEEP-WELL PUMPS. JOHN A. WINTROATH, Los Angeles, Calif., assignor to Peerless Pump Company, Los Geles, Calif., a Corporation of California. Filed Dec. 10, 1927. Serial No. 239,251. 9 Claims. (Cl. 103—102.)



1. In a turbine well pump the combination of: a column pipe; a line shaft extending downward in said column pipe; a shaft tubing extending downward in said column pipe and surrounding said line shaft, said tubing being formed in sections; an adjustable coupling device connecting adjacent ends of said tubing sections; and a supporting member supported by said column pipe and engaging said coupling device to support said tubing.

1,784,407. STEAM GENERATOR. WILFRED R. WOOD, London, England, assignor to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed Aug. 5, 1927, Serial No. 210,787, and in Great Britain Feb. 14, 1927. 10 Claims. (Cl. 122—235.)

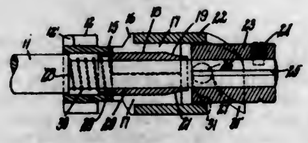


7. In combination, a furnace-shaped boiler, means for introducing fuel tangentially into the lower part thereof to be burned in space, means for introducing air for combustion below the point of fuel introduction in a manner to create an ascending vortical current sweeping the walls of the furnace-shaped boiler, and means for introducing air above the point of fuel introduction to maintain said vortical current for the length of the fuel and flame stream.

1,784,408. PROCESS FOR MANUFACTURING AMINONAPHTHOL ETHERS. ARTHUR ZITSCHER, Offenbach-on-the-Main, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Dec. 16, 1927, Serial No. 240,636, and in Germany Jan. 3, 1927. 3 Claims. (Cl. 260—130.5.)

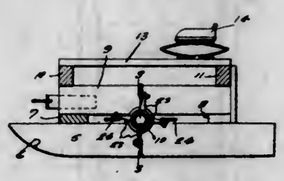
1. Process for manufacturing aminonaphtholethers which process comprises treating hydroxynaphthalenecarboxyamides with alkylating agents and subjecting the naphtholethercarboxyamides, thus obtained, to the action of alkali metal salts of the hypochlorous or hypobromous acid according to Hofmann's decomposition reaction.

1,784,409. ENGINE-DRIVE MECHANISM. ROLLIN ABELL, Milton, Mass. Filed Jan. 20, 1930. Serial No. 421,958. 16 Claims. (Cl. 74—7.)



1. An engine drive mechanism having, in combination, a driving shaft, a driven member embodying a gear, a pinion slidable longitudinally on said shaft into engagement with said gear and embodying therein a hub split longitudinally thereof, a sleeve on said hub and clutched thereto by frictional engagement, and means actuated by the rotation of said shaft for sliding said pinion along the shaft and into engagement with the gear.

1,784,410. STALK CUTTER. CHARLES R. ALEXANDER, Ennis, Tex. Filed May 7, 1929. Serial No. 361,069. 3 Claims. (Cl. 55—61.)

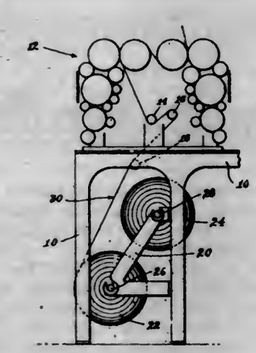


1. In an apparatus of the class described, a pair of spaced parallel co-extensive runners, a cross bar across the forward portions of the runners, blocks on the rear portions of the runners, sides mounted on the cross bars and the blocks one above each runner, a pair of cross bars across the sides, longitudinal bars connecting the ends of the last mentioned cross bars, a platform on the last mentioned cross bars, a seat on the platform, and a rotary reel cutting structure mounted across the runners and below the sides.

1,784,411. PROCESS OF PRODUCING A PIGMENT. DAVID V. AULT, Morton, Pa. Filed Feb. 4, 1929. Serial No. 337,528. 4 Claims. (Cl. 134—58.)

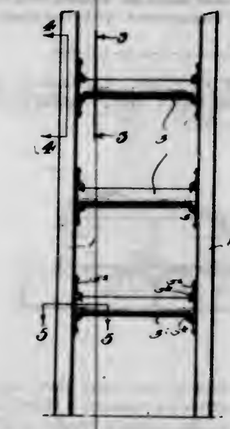
1. The process of manufacturing a pigment from a clay-like material containing sericite in a naturally-occurring, finely-divided condition which consists in drying such material and in separating the finely-divided sericite from gritty particles.

1,784,412. PRINTING MACHINE. HENRY V. BALL, Concord, Mass., assignor, by mesne assignments, to R. Hoe and Co., Inc., New York, N. Y., a Corporation of New York. Filed May 10, 1922, Serial No. 559,790. Renewed May 2, 1930. 1 Claim. (Cl. 242—58.)



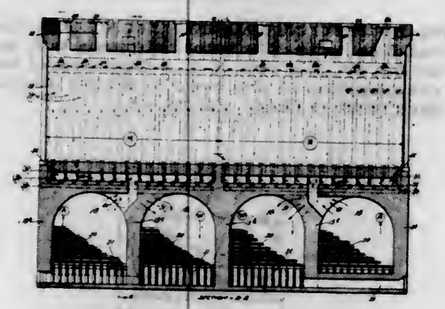
In a web-feeding mechanism, a running roll, a guide roller for the running web from said roll, a spare roll intermediate said running roll and guide roller, and fixed supports for the spindles of said rolls so related to each other that the running roll cannot be exhausted without the web-path therefrom engaging the periphery of the spare roll.

1,784,413. LADDER. MARTIN BAUER, Lakewood, Cleveland, Ohio. Filed Nov. 6, 1929. Serial No. 405,195. 9 Claims. (Cl. 228—58.)



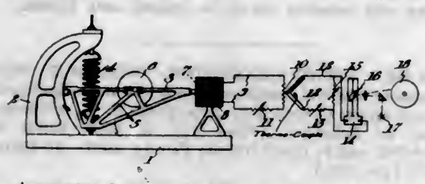
5. In a ladder comprising side members having sockets therein and rungs connecting said side members and entering said sockets, means for reducing the dimension of the socket across the grain and in the direction of the length of the side member, the lateral dimension of said means being less than one-half of the circumference of said socket, whereby to leave a ventilation space at each side of the inserted rung end and to allow for spreading of the same.

1,784,414. COKING RETORT OVEN. JOSEPH BECKER, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 2, 1923, Serial No. 610,107. Renewed April 1, 1930. 14 Claims. (Cl. 202—144.)



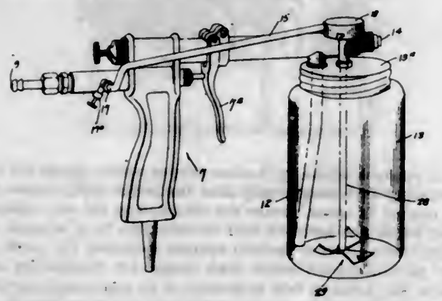
1. In a coking retort oven, in combination: a plurality of coking chambers alternating with substantially similar heating walls contiguous to such coking chambers and respectively constituted of vertical combustion flues; horizontal flues in each heating wall and respectively connecting a plurality of the combustion flues of their respective heating walls; the horizontal flues of a heating wall being also communicably connected with the corresponding horizontal flues of an adjacent heating wall; several main supporting walls below the coking and heating chambers and extending longitudinally of the oven and forming lengthwise of the oven tunnel structures and individually regulable and reversible regenerators between the adjacent supporting walls, each regenerator communicating with flues of both of two heating walls on opposite sides of a coking chamber and connected in pairs with combustion flues of a single heating wall; substantially as specified.

1,784,415. ELECTRICAL RECORDING SEISMOGRAPH. HUGO BENIOFF, Pasadena, Calif., assignor to Carnegie Institution of Washington, Washington, D. C., a Corporation. Filed Feb. 2, 1927. Serial No. 165,418. 4 Claims. (Cl. 177—351.)



1. Apparatus for recording the kinetic energy of seismic disturbances, comprising the combination with means operated by such disturbances to generate a current having a voltage proportional to the velocity of the disturbed earth particles, of means energized by said current-generating means and effective to produce a response proportional to the square of the voltage impressed thereon, and an indicator in the output circuit of said means.

1,784,416. AGITATOR. HENRY F. W. BROCKMANN, San Francisco, Calif., assignor of one-half to Harry C. Scott, San Francisco, Calif. Filed Nov. 15, 1926. Serial No. 148,485. 2 Claims. (Cl. 259—122.)



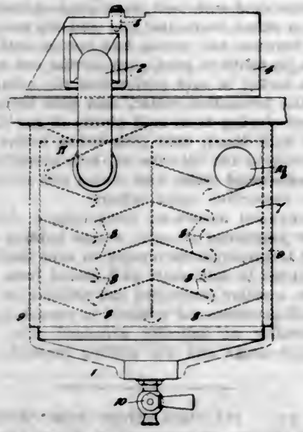
1. In a device of the type described, a propeller having a plurality of blades, one of said blades being inclined at a slight degree, and each succeeding blade thereafter being inclined at a greater degree, whereby each blade of the propeller will move the fluid a greater distance than the preceding blade when starting with the blade having the smallest angle.

1,784,417. ELECTRICAL INDICATING INSTRUMENT. IVAR W. BROGGER, Springfield, N. J., assignor to Tiffany Manufacturing Company, Newark, N. J. Filed Nov. 18, 1929. Serial No. 407,904. 11 Claims. (Cl. 171—95.)



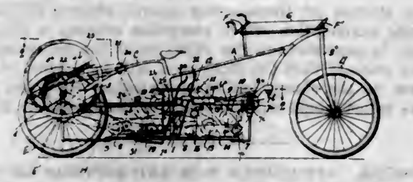
6. An electrical indicating instrument including an insulator, a yoke non-rotatably carried on the insulator, a pair of cores rigidly fastened at opposite ends of the yoke, a bracket having arms at opposite ends extending into engagement with the insulator, an armature pivotally supported by the bracket adjacent the free ends of said cores, a pointer operated by the armature, windings on said cores, and means for making connections thereto, at least a part of said means acting to hold said bracket arms to the insulator.

1,784,418. APPARATUS FOR SEPARATING FAT OR OTHER MATERIAL FROM GASES. GORDON WILLIAM FREDERICK CATLIN, St. Albans, England. Filed Jan. 8, 1929, Serial No. 331,131, and in Great Britain Feb. 3, 1928. 3 Claims. (Cl. 183—106.)



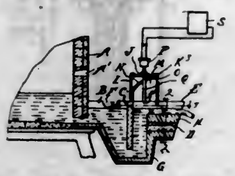
1. Apparatus for separating fat from gases, comprising a mixing chamber, spray nozzles for admitting fat to the mixing chamber, a gas inlet to the mixing chamber, two outlets for the mixture from the mixing chamber, a separating chamber for superfluous fat and gas, two oppositely disposed inlets to the upper portion of the separating chamber and extending from the outlets in the mixing chamber, a series of baffle plates arranged in the separating chamber, a gas exhaust outlet on the separating chamber, and a closable discharge outlet on the separating chamber for the fat separated from the gas.

1,784,419. BICYCLE MECHANISM. ANTONIO DEVITO, Brooklyn, N. Y. Filed Sept. 24, 1928. Serial No. 308,088. 3 Claims. (Cl. 208—34.)



1. In a bicycle having front and rear supporting wheels, a sprocket, a train of gearing operable from the sprocket, a pair of rotary disks on each side of the rear wheel driven by said gearing, a pair of reciprocating rods connected to the disks, and fly wheels located outside the said disks including gearing for operating the same and maintain the bicycle in motion.

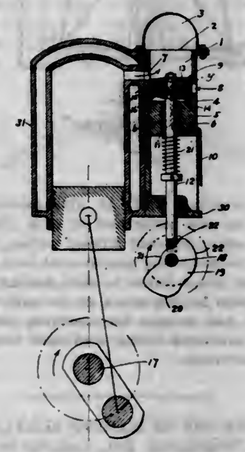
1,784,420. CONTINUOUS IRON-TEMPERATURE RECORDER. HARRY W. DIETERT, Detroit, Mich., assignor to United States Radiator Cor., Detroit, Mich., a Corporation of Michigan. Filed July 12, 1926. Serial No. 121,988. 8 Claims. (Cl. 73—32.)



7. In an apparatus of the class described the combination of a pouring spout having a depressed portion therein forming a reservoir, a gas collecting chamber arranged adjacent to the flowing metal directly above said reservoir, and a temperature responsive element within said chamber spaced a predetermined distance from the level of the molten metal during the pouring of the same.

8. In an apparatus of the class described, the combination with a delivery spout adapted to discharge molten metal, of a hood above said spout, a temperature responsive element within said hood and spaced a predetermined distance from the molten metal in said spout, and means for constantly maintaining a limited quantity of molten metal adjacent said hood for retarding variations in the temperature within said hood during the interval between successive pouring operations.

1,784,421. VALVE MECHANISM FOR INTERNAL-COMBUSTION ENGINES. HARVEY H. ESLINGER, Hecktown, Pa., assignor to Eslinger Motors Company, a Corporation of Delaware. Filed July 2, 1924, Serial No. 723,630. Renewed May 14, 1930. 3 Claims. (Cl. 123—75.)

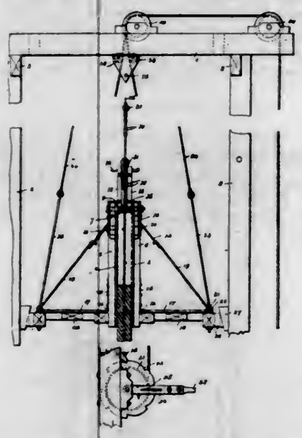


1. Valve mechanism for internal combustion engines including a valve cylinder having an oil passage through its wall and having at low level an intake and at intermediate level an engine port and at high level an exhaust and having at its inner end a valve chamber extending below the engine port, a solid piston valve having an oil duct extending radially through it and axially and radially through its stem and constituting the sole means for controlling said port and intake and exhaust and having a single packing ring adapted in low position of the valve to enter said chamber and seal the inlet and to uncover the engine port to exhaust, and said ring adapted in high position of the valve to seal the exhaust and to uncover the engine port and intake, and said ring in intermediate position of the valve adapted to span and cover the engine port and to receive and confine the explosion, and spring pressed cam means for reciprocating said valve with a dwell in its movement at each of said positions, said spring pressed cam means confined below said valve and protected by it from the heat of the exhaust and provisions for preventing rotation of the valve and insuring oil feed at low position of the valve.

1,784,422. PLANT FOR THE VERTICAL MOLDING OF CONCRETE WORK. HIPPOLYTE FABRE, Clamart, France. Filed Aug. 7, 1928, Serial No. 298,077, and in France Aug. 9, 1927. 1 Claim. (Cl. 25—131.)

Means for constructing a relatively thin vertical retaining wall of concrete, comprising cross pieces forming

an overhead bridge, lifting cables operating from the bridge, a mold suspended from said cables and comprising superposed planks, means for stabilizing the mold, movable transverse spacing members between the uppermost planks, bolts for attaching the members to the planks, cams for adjusting the bolts to clamp the planks, a harpoon-shaped member depending from the cross piece and having hooks fastened to said planks at variable elevations in accordance with the progress of the construc-

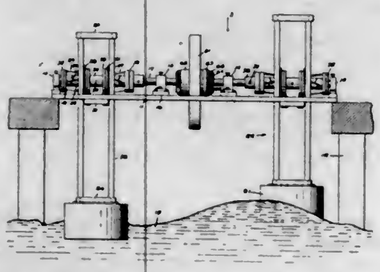


tion of the retaining wall, an attendance-bridge pivotally mounted on the lower end of said planks and connected at its ends to said lifting cables, inclined telescoping stays between the planks and last named bridge to support and allow same to fold against planks, said attendance bridge having shoes at its ends provided with inclined faces, and wedges for insertion between the uprights of the overhead bridge and said inclined faces of the attendance-bridge.

1,784,423. PROCESS OF MAKING ALKYL CHLORIDES. JOHN FREI, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 30, 1923. Serial No. 671,669. 17 Claims. (Cl. 260—162.)

1. The process of making an alkyl chloride which comprises heating above 110° C. a mixture of a water solution of hydrochloric acid and a lower alcohol in the presence of ferric chloride, while permitting the escape of the water vapors formed.

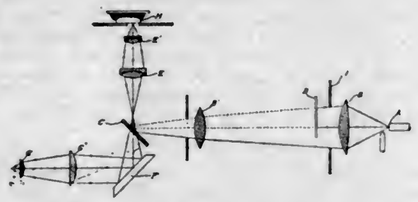
1,784,424. WAVE-MOTOR DRIVING MECHANISM. CHARLES E. GARWOOD, Avalon, Calif. Filed Aug. 8, 1928. Serial No. 298,162. 5 Claims. (Cl. 74—53.)



1. In a wave motor comprising, a revolubly mounted shaft, a member connected to the shaft for multi-directional movement in a plane to which said shaft is perpendicular, a pinion journalled upon the shaft, and a rack carried by said member in mesh with said pinion; a one-way engaging clutch actuated by said pinion and imparting rotational movement to said shaft, and comprising spaced collars rigid with said shaft upon opposite sides of the pinion, a collar journalled and slidably mounted upon said shaft between the pinion and one of said rigid collars, and a plurality of pins, each having one end loosely seated in a socket in said pinion and the other end in a socket in the journalled collar, said pins being helically disposed and sloping from said pinion in the direction of turning of said shaft, said pins being longer than the distances between the bottoms of their respective sockets when the associated collar and pinion are in engagement with their respective rigid collars.

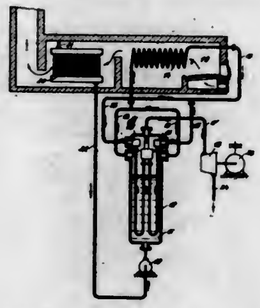
3. A mechanical movement comprising a shaft, a driving member journalled thereon, means holding said member against longitudinal movement on said shaft, a driven member secured to said shaft and spaced from said driving member, a collar journalled and slidable on said shaft between said members and adapted to engage one thereof, and a plurality of helically arranged pins interposed between said collar and the driving member.

1,784,425. ILLUMINATION FOR MICROSCOPY. HARRY S. GEORGE, Massapequa, N. Y., assignor to Electro Metallurgical Company, a Corporation of West Virginia. Filed June 30, 1924. Serial No. 723,396. 16 Claims. (Cl. 88—40.)



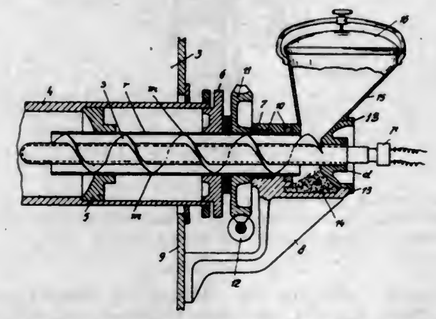
1. Method of illuminating opaque objects for microscopic examination which comprises causing a beam of light to pass through the objective of the microscope in such manner that the light rays will be caused to converge on the object, and stopping out of the beam light rays which would otherwise fall vertically on the object.

1,784,426. APPARATUS FOR AND METHOD OF GENERATING STEAM. HANS GLEICHMANN, Berlin-Siemensstadt, Germany, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Berlin-Siemensstadt, Germany, a Corporation of Germany. Filed June 4, 1927, Serial No. 196,593, and in Germany June 9, 1926. 3 Claims. (Cl. 122—1.)



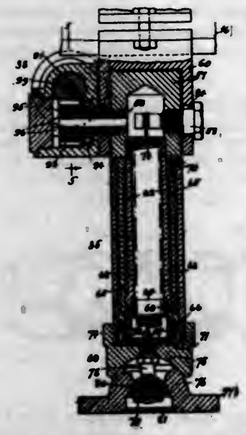
1. An apparatus for generating steam comprising a superheater and means for externally supplying heat to said superheater, a steam generating receptacle located outside of said external heat supply means, and a heat exchange device contained in said receptacle, said exchange device being connected at one end to the output side of said superheater, and at the other end to a steam main, said heat exchange device supplying to the liquid contained in the receptacle all of the heat necessary to evaporate the liquid, and a steam connection between the steam space of said receptacle and the input side of said superheater.

1,784,427. ROTARY TEMPERING FURNACE. ERNST GOERIG, Mannheim, Germany. Filed Aug. 6, 1928, Serial No. 297,583, and in Germany Aug. 12, 1927. 7 Claims. (Cl. 263—1.)



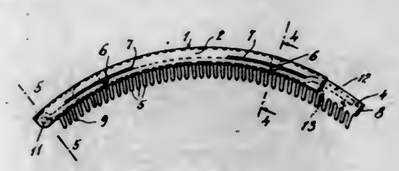
4. In a rotary case hardening furnace a tube with a rotary pipe fixed concentrically therein, a feed worm enclosed by said pipe and fixed to the same, a feeding receptacle communicating with the receiving end of said pipe and said worm and a pyrometer tube arranged within said tube and extending coaxially to the same and to the said worm.

1,784,428. HYDRAULIC JACK. BARNEY GOLDMAN, New York, N. Y. Filed Apr. 8, 1929. Serial No. 353,390. 4 Claims. (Cl. 138—9.)



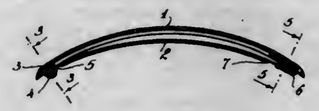
1. In a hydraulic jack the combination with a head adapted to fasten to an object, of telescopic tubular plungers swingingly mounted on the head, a fluid inlet leading into the head, a port in the head at predetermined times communicating with the plungers, a tubular piston slidingly arranged in the head adapted to swing the plungers downward and upward, a valve having a stem slidably arranged in the piston, said valve including means controlled by the position of the piston to cover or uncover the port by the actuation of the valve.

1,784,429. HAIR-WAVING DEVICE. ABRAHAM GOODMAN and JACOB GOODMAN, Brooklyn, N. Y. Filed Apr. 22, 1929. Serial No. 357,021. 5 Claims. (Cl. 132—41.)



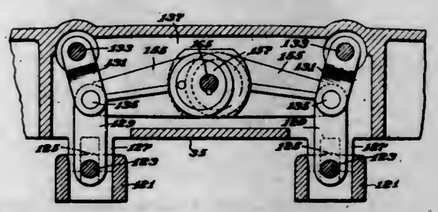
1. A hair waving device comprising a clasp having two spaced parallel side portions, a comb slidably supported on one of said portions for longitudinal movement, a bar pivoted at one end to the clasp intermediate its side portions and extending lengthwise thereof, and a catch on the clasp to hold the free end of the bar in closed position.

1,784,430. BARRETTE. ABRAHAM GOODMAN and JACOB GOODMAN, Brooklyn, N. Y. Filed Apr. 24, 1929. Serial No. 357,636. 2 Claims. (Cl. 132—48.)



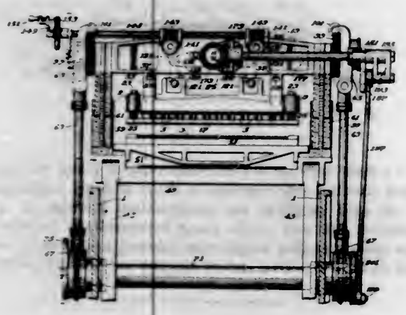
1. A barrette comprising a bar curved in the direction of length, a rigid tongue of convexo-concave section curved lengthwise and having one end coiled inwardly to form a pivot about which it turns, a slot in the tongue adjacent the pivot, a hinge secured to one end of the bar loosely embracing the pivot and passing through the slot in the tongue, the slot being slightly wider than the width of the hinge to permit lateral play of the tongue with respect to the hinge, and a catch at the opposite end of the bar to hold the free end of the tongue in closed position.

1,784,431. BISCUIT CUTTING AND EMBOSSING MACHINE. THOMAS LUTHER GREEN, Indianapolis, Ind. Filed Apr. 8, 1929. Serial No. 353,571. 21 Claims. (Cl. 107—26.)



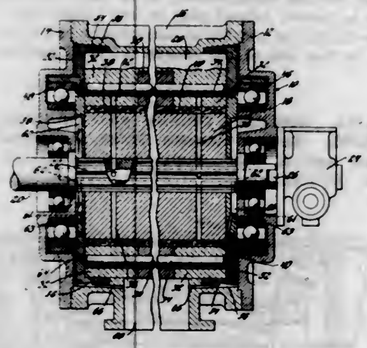
2. A machine of the character described comprising, in combination, an embosser and a cutter adapted to emboss and cut material, a reciprocable cross-head carrying the embosser and cutter, spring means for retracting the embosser from the material energized on movement of the cross-head toward the material, a pair of toggles on the cross-head operable alternately to permit and prevent movement of the embossed by said spring means away from the material, a pair of eccentrics on the cross-head, connecting rods connecting the toggles with the eccentrics, and means for operating said eccentrics to cause them alternately to positively straighten and buckle the toggles.

1,784,432. BISCUIT CUTTING AND EMBOSSING MACHINE. THOMAS LUTHER GREEN, Indianapolis, Ind. Filed June 1, 1929. Serial No. 367,684. 19 Claims. (Cl. 107—26.)



3. A machine of the character described comprising, in combination, a reciprocable cross-head, an embosser carried thereby, toggles on the cross-head connected to the embosser, and means for straightening and buckling the toggles including eccentrics on the cross-head, connecting rods connecting the eccentrics with the toggles, and means for oscillating the eccentrics.

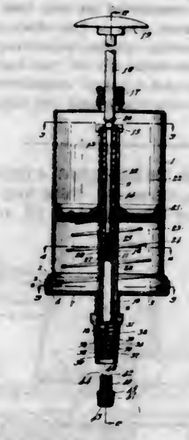
1,784,433. SUPERCHARGER OILING SYSTEM. DAVID GREGG, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed June 4, 1928. Serial No. 282,691. 14 Claims. (Cl. 184—6.)



1. In a lubricating system for a supercharger having a rotor having blades operating in a housing, a pump for moving the lubricant through the system, a lubricant passage through said rotor, an auxiliary passage leading from said rotor passage to conduct the lubricant to a rotor bearing, and means including a passage in the walls of said housing for conveying the lubricant from said auxiliary passage to the tip of the blades.

1,784,434. GREASE GUN. PETER GRESSER, Detroit, Mich. Filed Mar. 15, 1928. Serial No. 261,985. 6 Claims. (Cl. 221—47.4.)

1. A grease gun comprising a cylinder forming a pressure chamber, an outlet tube in communication with said chamber, a liner disposed in said tube near the outlet end thereof and extending into said cylinder, said liner being slotted at a point considerably inward of the forward end of said cylinder, a plunger slidable within said liner along the slotted portion thereof and adapted to obstruct said liner beyond said slotted portion.

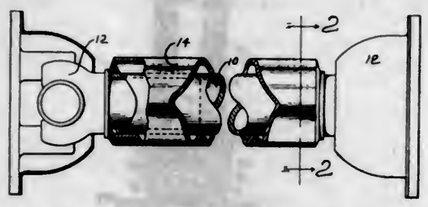


1,784,435. METHOD OF PREPARING RESISTANCE UNITS. LARS O. GRONDAHL, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Nov. 7, 1925. Serial No. 67,552. 5 Claims. (Cl. 201—76.)



5. The process of preparing a thermo-sensitive resistance unit which consists in forming a substantially flat copper blank with a bridge portion of reduced thickness intermediate its ends, heating the blank in the presence of air to change said bridge portion entirely to copper oxide but stopping the heat treatment before the end portions are entirely changed to copper oxides, and removing the oxide from the end portions of said blank.

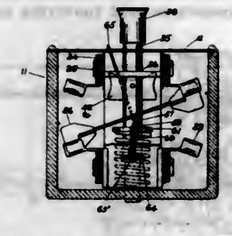
1,784,436. PROPELLER SHAFT. NEWTON F. HADLEY, Beverly Hills, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a Corporation of Delaware. Filed May 24, 1927. Serial No. 193,851. 10 Claims. (Cl. 64—29.)



1. A propeller shaft of the class described comprising, a tubular member, and a fluted tubular member around said tubular member engaging the outer periphery thereof.

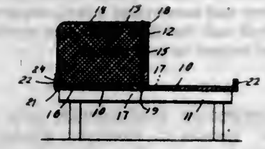
1,784,437. SINGLE-BUTTON ELECTRIC SWITCH. LEE H. HARLOW, Los Angeles, Calif., assignor of one-half to Grover C. Piper, Los Angeles, Calif. Filed Oct. 1, 1927. Serial No. 223,323. 10 Claims. (Cl. 200—67.)

10. A switch comprising in combination a frame having a pair of side plates, a plurality of fixed contacts secured to the frame, a plate pivotally mounted in the side plates and having an opening therethrough, moving contacts attached to said plate, a stem slidably mounted in the frame and extending through the opening in the plate, a dog pivotally mounted on the stem to engage the plate



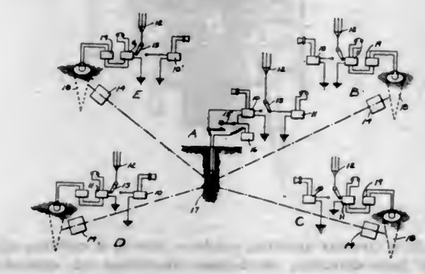
and tilt same from one inclination to the opposite inclination, one of the said plates having a slot, a bracket having means connecting same through the said slot, an arm connected to the tilting plate, and a spring connected between the bracket and the said arm.

1,784,438. EXHIBITION BENCH. AUGUST HARTMANN, Montclair, N. J., assignor to Spratts' Patent, America, Limited, Newark, N. J., a Corporation of Great Britain. Filed July 27, 1928. Serial No. 295,634. 8 Claims. (Cl. 119—15.)



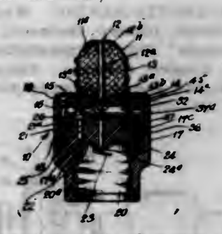
1. An exhibition bench comprising a floor, a back-board resting on the floor at a distance from one edge thereof, a skirting board resting on the floor along said edge, and partition means to subdivide the floor into a row of exhibition spaces, these partition means having portions engaging the back-board and other portions passing through the skirting board and entering the floor.

1,784,439. METHOD FOR MAKING SUBTERRANEAN SURVEYS. HARVEY C. HAYES, Washington, D. C. Filed May 15, 1928. Serial No. 277,968. 9 Claims. (Cl. 181—0.5.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)



1. A method of surveying subterranean strata which comprises generating a train of complex compressional waves, reproducing the form of said waves on a record as they reach a point remote from the generating source and the analysis of the records of the complex waves into their components.

1,784,440. ELECTRIC-LAMP SOCKET. HARRY HERTZBERG, Brooklyn, N. Y., assignor, by mesne assignments, to The M. Propp Co. Inc., New York, N. Y., a Corporation of New York. Filed Nov. 30, 1926. Serial No. 151,629. 6 Claims. (Cl. 201—49.)



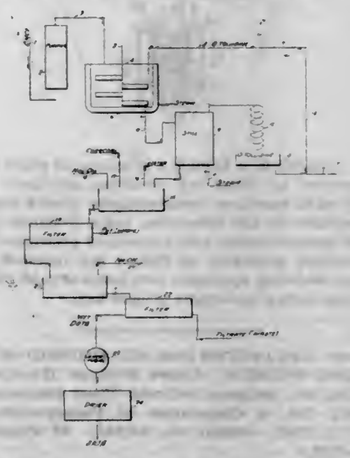
1. A dimming socket of the character described having a casing of insulating material molded with a socket portion having an end wall and a pocket in said wall, an adjustable resistance unit wedgingly fitted into said pocket, control means for varying the resistance of said unit including a movable contact arm, spaced terminal switch contacts and jumpers, one end of each jumper being connected to a contact, the other end of each of said jumpers clampingly engaging with said unit on wedging the latter in said pocket.

1,784,441. PROCESS FOR MANUFACTURING ORTHO-AMINO-ARYLMERCAPTANES. RICHARD HERZ, Frankfort-on-the-Main, and MAX SCHUBERT, Fechenheim, near Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Mar. 21, 1928, Serial No. 263,584, and in Germany Mar. 26, 1927. 6 Claims. (Cl. 260—130.5.)

1. A process for manufacturing ortho-amino arylmercaptans which comprises treating an ortho-amino-arylsulfocyanogen compound of the general formula:

wherein Y means that the 4-position is either substituted or blockaded with an alkaline saponifying agent under exclusion of air.

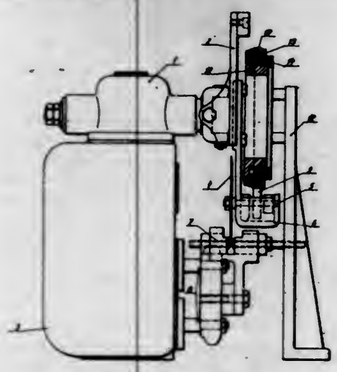
1,784,442. METHOD OF MAKING SUBSTITUTED GUANIDINES. RALPH V. HEUSER, Elizabeth, N. J., assignor to American Cyanamid Company, New York, N. Y., a Corporation of Maine. Filed Mar. 5, 1925. Serial No. 13,208. 12 Claims. (Cl. 260—125.)



1. A method of making substituted guanidines which comprises bringing cyanogen chloride, free from substan-

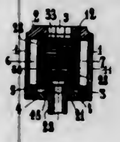
tial amounts of chlorine and hydrocyanic acid, into contact with a secondary aryl-alkyl amine and causing a reaction to take place therebetween in one operation.

1,784,443. CIGARETTE-MAKING MACHINE. MAX PAUL ERNST HOHN, Dresden, Germany, assignor to the Firm "Universelle" Cigarettenmaschinen-Fabrik J. C. Muller & Co., Dresden, Germany. Filed Dec. 19, 1927, Serial No. 241,183, and in Germany Nov. 21, 1927. 4 Claims. (Cl. 131—37.)



1. A cutting device for cigarette making machines of the continuous rod type, comprising in combination a rotary cutter shaft, a driving wheel mounted on the said shaft, a rotating vibrating support for the cutter shaft, a stationary friction wheel so mounted as to be concentric with the axis of rotation of said support and capable of entering into engagement with the said driving wheel, whereby the rotary motion of the cutter shaft is produced by the said driving wheel rolling around the said friction wheel, means for radially adjusting the cutter shaft on the said support for allowing for a change in diameter of the cutter and means for adjusting the friction wheel for making up for the adjustment of the cutter shaft, as and for the purpose set forth.

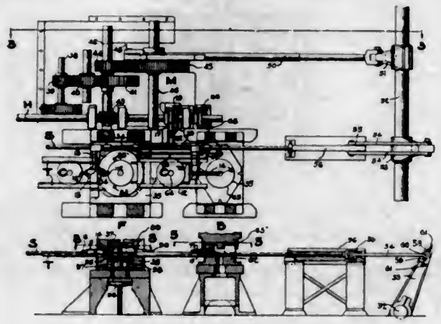
1,784,444. CYLINDER LOCK. ROBERT GEORGES MARIE HOMOLLE, Paris, France, assignor to Societe Bournisien Beau & Cie., Paris, France. Filed Aug. 18, 1927, Serial No. 213,909, and in France Sept. 6, 1926. 3 Claims. (Cl. 70—46.)



1. A cylinder lock having a plurality of plate tumblers characterized by offset key receiving apertures in some of said plate tumblers, symmetrically placed key receiving apertures in the remaining plate tumblers and projections symmetrically and oppositely positioned in said key receiving apertures so that a key inserted through said key receiving apertures will actuate said plate tumblers upon rotary movement of said key.

1,784,445. APPARATUS FOR AND METHOD OF FABRICATING WHEELS. JAMES WILLIAM HUGHES, Philadelphia, Pa., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 3, 1925. Serial No. 34,743. 37 Claims. (Cl. 113—113.)

1. The method of fabricating vehicle wheels having in their completed form central formations requiring presentation to operations in a definite angular relation, which consists in preforming wheel body parts to form thereon a surface or surfaces concentric with the ultimate center of the wheel, and in conveying said wheel parts from operation to operation by means engaging said surface or surfaces, the while positively holding said wheel parts by engagement into said surface or surfaces against angular movement with respect to said conveying means.

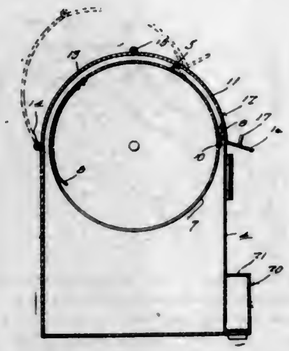


3. Apparatus for fabricating wheels comprising a plurality of machines adapted to operate upon a wheel part successively and including a pre-shaping machine to provide a surface or surfaces thereon arranged substantially at right angles to the plane of said wheel part, and conveying mechanism for moving said wheel parts from machine to machine and comprising means engaging said surface or surfaces and holding the same against angular movement with respect to said means.

1,784,446. DETECTOR MECHANISM FOR KNITTING MACHINES. ROBERT G. JENNINGS, Elmira, N. Y., assignor to The R. G. Jennings Yarn Cleaning Machine Co. Inc., Elmira, N. Y., a Corporation of New York. Filed Oct. 8, 1928. Serial No. 311,070. 25 Claims. (Cl. 66—166.)

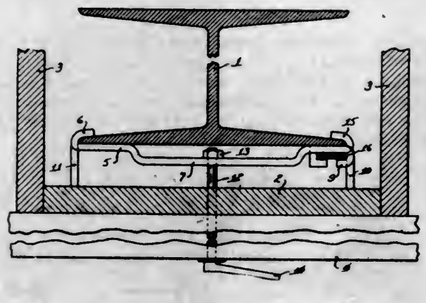
1. In a circular knitting machine having a knitting cylinder, hole detecting mechanism including an expander ring approximating the diameter of said cylinder and engaging the inner face of the cloth, an arcuate support outside the cloth, a series of resilient elements depending from said support to a point opposite said ring and spaced to engage between successive adjacent cylinder needle wales, and an electric circuit connecting said ring and said elements.

1,784,447. RURAL MAIL BOX. JAMES B. JOHNSON, Poplar, Minn. Filed Feb. 25, 1928. Serial No. 256,936. 1 Claim. (Cl. 232—49.)



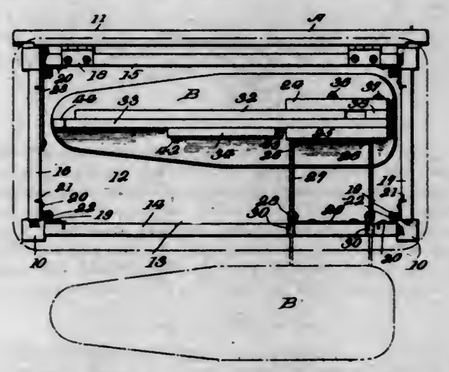
In a mail box of the class described, a substantially rectangular opened top box provided at one end with an entrance opening, a hinged door for said entrance opening, locking means for said door, a horizontally disposed cylindrical drum rotatably mounted in the upper end portion of the box, said drum being provided with a relatively large opening on one side thereof, and said drum being adapted to receive mail for depositing the latter within said box, a hood for the open top of said box, said hood comprising a pair of hingedly connected sections of arcuate formation to correspond with the upper portion of the drum, one of said sections being hingedly connected to said box and the other of said sections being hinged to the drum for rotating the latter whereby said drum may be actuated upon the raising and lowering of said hood for receiving and discharging mail into said box.

1,784,448. HANGER FOR FORMS ON STEEL-BEAM CONSTRUCTION. FELIX KAHN, San Francisco, Calif. Filed Oct. 10, 1928. Serial No. 311,588. 6 Claims. (Cl. 25—131.5.)



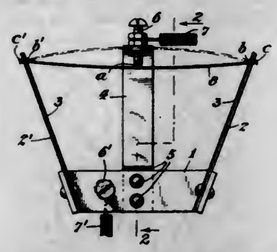
4. A device for hanging forms from beams comprising a member having means at one end for engaging one side of the beam and a longitudinal slot at the other end, one leg of said slotted end being bent downwardly to form a hook; a connecting member having means for engaging the other side of the beam, said connecting member lying within said slot and having a downwardly directed hook opposite to the hook of said slotted member; a wedge adapted to be driven between said hooks to clamp said members upon the beam; and means for removably securing one of said members to the form.

1,784,449. COMBINED TABLE AND IRONING BOARD. ALBERT HOWARD KENNEDY, Grove City, Pa., assignor to Adolph F. Lind, Kittanning, Pa. Filed Feb. 14, 1929. Serial No. 339,917. 1 Claim. (Cl. 68—10.)



The combination with a table having a hinged top and a compartment below the same, of an ironing board having on its under surface a pair of members arranged and spaced in parallel relation, a pivotal connection between the interior of said table compartment and said members to permit said board to be swung upwardly and outwardly to a position beyond the front of said table, a pair of supporting legs for said board, one of said legs when the board is swung outwardly being vertically disposed and the other arranged at an angle to the vertical leg and having sliding connection therewith, the upper ends of said supporting legs pivoted at separate points in the space between said members, a brace arranged at an angle between the ironing board and the inclined supporting leg and movably connected to each of said members, said brace being made in two sections with the adjacent ends of the sections having a hinged connection, and the adjacent ends of the section forming a brace abutting one another under pressure when the legs are in extended position.

1,784,450. MECHANICAL MOVEMENT. EMIL KLAHN, New Vernon, N. J. Filed Feb. 25, 1926. Serial No. 90,521. 18 Claims. (Cl. 200—138.)



1. A switch comprising a frame, a plurality of arms rigidly secured thereto and projecting therefrom, the outer free ends of said arms being relatively movable with respect to each other during the operation of the switch, a snapping element spanning the space between said arms and having its ends mounted respectively in the free end portions of said arms, a stop positioned intermediate said free ends of said arms adapted to prevent said snapping element from assuming a sprung position equi-distant from a neutral center line with the other sprung position, means for effecting the relative movement of said arms with respect to each other and a pair of contact terminals adapted to be respectively connected to a source of electricity and normally insulated from each other when the circuit is open adapted to make and break by the movement of said snapping element from one position of rest to another.

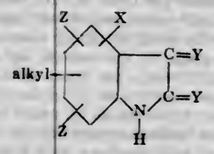
1,784,451. CHAIN ASSEMBLY. AUGUST F. KRAEMER, Providence, R. I., assignor to Louis Stern Company, Providence, R. I., a Corporation of Rhode Island. Filed July 12, 1929. Serial No. 377,738. 2 Claims. (Cl. 59—80.)



1. In a chain structure a series of box links pivotally connected together, said links having top end and side walls, bottom members extending inwardly from said side walls, and said end wall being folded back in loop form to extend beneath said bottom members and shaped to provide a bearing for the connecting pivot pin and a resilient tongue formed from the stock of said end wall and shaped to engage the pivot pin to resist its endways movement.

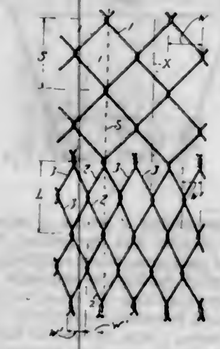
1,784,452. INDIGOID VAT DYESTUFFS FROM DIHALOGENO-ALKYLISATINS. CARL KRAUSS, Leverkusen, near Cologne-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Oct. 23, 1926, Serial No. 143,796, and in Germany Nov. 25, 1925. 4 Claims. (Cl. 260—49.)

1. As new products the indigoid vat dyestuffs of the general formula:



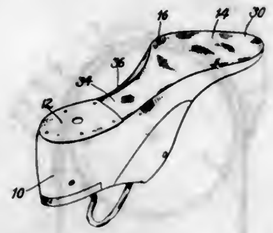
wherein Z represents a halogen atom having an atomic weight of between 35 and 80, X represents hydrogen or alkyl, one Y represents oxygen, the other Y the residue of a cyclo-keto-methylene compound, said products being in the dry state dark colored powders, dyeing textile materials from a generally yellow vat red to blue fast shades.

1,784,453. CHAIN LINK WIRE FABRIC. ARTHUR A. G. LAND, Chicago, Ill. Filed Dec. 7, 1928. Serial No. 324,464. 17 Claims. (Cl. 245—6.)



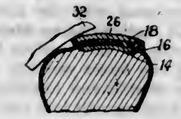
1. A chain-link wire fabric formed of interlinked zigzagged strands comprising main strands having the zigzag portions of consecutive strands directly interlinked in a portion of the fabric, certain of the main strands presenting non-contiguous zigzagged portions in consecutive strands in another portion of the fabric; and secondary strands interposed between the said non-contiguous portions of the said main strands.

1,784,454. LAST. CLARENCE I. LANDER, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 9, 1927. Serial No. 211,823. 5 Claims. (Cl. 12—133.)



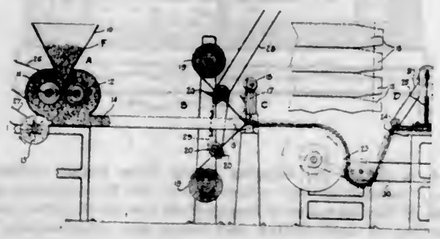
1. A last for shoes having in the margin of its bottom surface a shallow groove one side of the groove sloping inwardly and toward the body of the last from the extreme edge of the last bottom and extending from the breast line on one side of the shank along the shank to the forepart and along the shank to the breast line on the other side.

1,784,455. METHOD OF LEVELING SHOES. CLARENCE I. LANDER, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Aug. 9, 1927, Serial No. 211,823. Divided and this application filed Feb. 27, 1930. Serial No. 431,800. 4 Claims. (Cl. 12—142.)



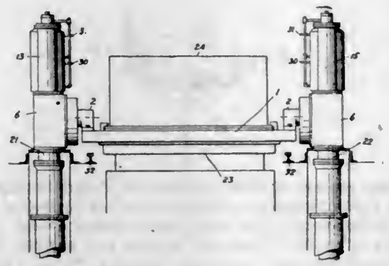
1. That improvement in methods of leveling shoes which consists in applying leveling pressure to the marginal portion of a shoe sole which is secured to the upper of the shoe by a line of fastenings while supporting said portion of the sole by means having an inclined surface, thereby causing the leveling pressure to force the said line of fastenings inwardly away from the edge of the sole.

1,784,456. METHOD AND APPARATUS FOR FILLING UPHOLSTERY. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 29, 1926. Serial No. 151,268. 6 Claims. (Cl. 112—2.)



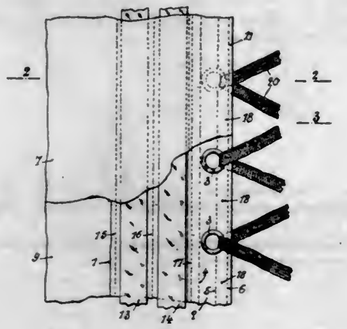
1. A machine of the character described comprising a blower for supplying comminuted filling material, means for supplying upholstery material, means for fashioning said upholstery material prior to filling into continuous tubes and for compacting said filling material therein, and means for cutting said tubes into predetermined lengths.

1,784,457. MOLDING MACHINE. WILFRED LEWIS, Haverford, Pa., assignor to The Tabor Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 7, 1929. Serial No. 338,080. 6 Claims. (Cl. 22—33.)



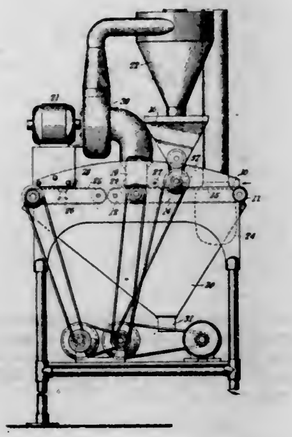
1. Rollover mechanism on trunnion plate machine to jar, rollover, and draw patterns comprising, in combination, a rollover plate having a trunnion stand and a trunnion of which the end is provided with a tongue vertical in jarring and pattern drawing positions, a trunnion bearing, a housing having a revoluble toothed wheel provided with a shaft having a tongue generally horizontal in said positions, an Oldham coupling ring having grooves on opposite faces and disposed at right angles and adapted to receive said tongues, a cross bar provided on the housing and adapted to lift said trunnion bearing to approximately align the trunnion and shaft for rollover and pattern drawing and to drop clear of said bearing for jarring, oppositely acting rollover plungers having racks engaging said toothed wheel, two-way limit stops on the housing for positioning the plate for pattern drawing, and draw plungers for raising and lowering the housing and parts carried thereby.

1,784,458. LACING DEVICE FOR CORSETS AND LIKE ARTICLES. JULES LINDAUER, Paris, France. Filed Nov. 9, 1928, Serial No. 318,114, and in France July 19, 1928. 5 Claims. (Cl. 2—39.)



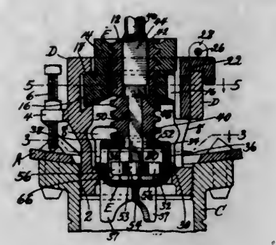
1. In a lacing device for corsets and like articles, two pieces to be laced, a folded edge of the corset fabric and a folded edge of the lining of each of said pieces, the turned-in portions of said folded edges facing each other, an eyelet-carrying perforated band between said turned-in portions of said folded fabric and lining of each respective piece and covered by said folded edges, means for fastening said fabric, lining and band together, and means for fastening said fabric, lining and band between said successive eyelets near the fold of said folded edges.

1,784,459. POWDERING MACHINE. SAMUEL LIPSIUS, New York, N. Y. Filed Sept. 19, 1928. Serial No. 306,850. 9 Claims. (Cl. 91—51.)



1. A powdering machine comprising a canvas conveyor, means for depositing powder on sheets on the conveyor, means for vibrating said conveyor to raise uncemented powder, a suction pipe having its inlet immediately above the canvas over said vibrating means and shaped for removal of substantially all the loose powder on said conveyor, and a grating between said conveyor and suction pipe inlet.

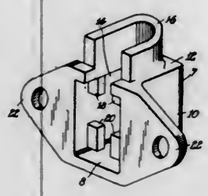
1,784,460. VALVE ASSEMBLY. JOHN J. McBAIDE, Bayonne, N. Y., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed May 14, 1928. Serial No. 277,574. 28 Claims. (Cl. 251—36.)



10. In a valve assembly, a valve cage, a valve normally seated therein, a horizontally shiftable actuator in the cage, a rotatable valve screw supported by and vertically movable through the actuator and adapted to be engaged with and disengaged from the valve, said screw being shiftable on the valve upon shifting of the actuator, and means connecting said valve screw and valve for grinding

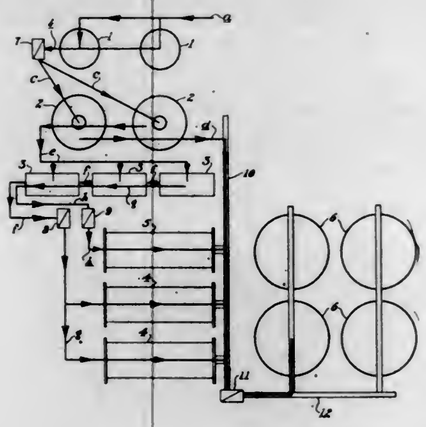
the latter on its seat after partial rotation of the valve screw and for lifting said valve from its seat following grinding thereof and upon continued rotation of the valve screw.

1,784,461. SECURING MEANS FOR INTERNAL-COMBUSTION ENGINES. JOHN J. McBRIDE, Bayonne, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 26, 1928. Serial No. 315,195. 4 Claims. (Cl. 248—14.1.)



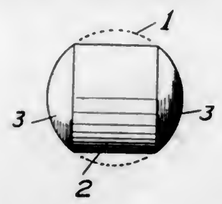
1. A device of the kind described comprising a hollow body portion having one open face and a slotted top portion, retaining lugs extending into the open face of the body portion, and attaching ears extending laterally from the body portion.

1,784,462. METHOD OF PRODUCING GROUND RAW MATERIAL FOR PORTLAND-CEMENT MANUFACTURE. JOHN A. MILLER, Nazareth, Pa., and EDMUND PAUL NEWHARD, Kingsport, Tenn. Filed May 10, 1927. Serial No. 190,345. 11 Claims. (Cl. 106—25.)



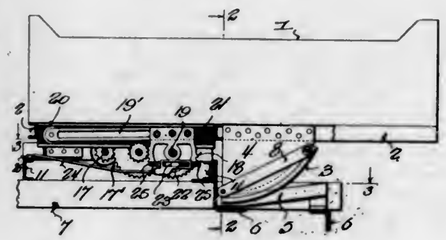
9. The process of dry grinding a mixture of raw materials for the manufacture of Portland cement, said mixture comprising at least two ingredients of different hardness such as limestone and shale, which consists in subjecting the mixture to a preliminary reduction operation, in then effecting a grading of the material into relatively fine particles and relatively coarse particles, and in separately fine grinding the two separate portions of the material, substantially as set forth.

1,784,463. PROCESS OF MAKING CYLINDRICAL ROLLERS. BUDD G. NICE, Hatboro, Pa. Filed Mar. 5, 1930. Serial No. 433,321. 2 Claims. (Cl. 29—148.4.)



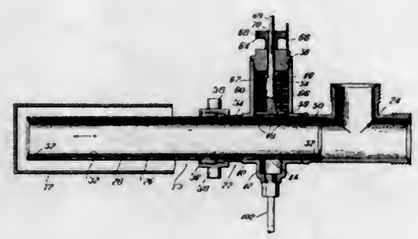
1. The process of making cylindrical rollers having ends of the form of segments of a sphere, which comprises making and hardening steel balls, and grinding a part of the surface of the balls included between two parallel planes into cylindrical form by passing the balls through a centerless grinder.

1,784,464. VEHICLE DUMP BODY. RALPH T. OSMAN, Mansfield, Ohio. Filed Nov. 8, 1928. Serial No. 317,963. 1 Claim. (Cl. 298—10.)



A device of the class described comprising a fulcrumed body, a vehicle frame, inverted V-shaped inclined tracks carried by said frame and arcuate inverted V-shaped rockers carried by said body and engaging said tracks to mount said body upon the frame for tilting movement.

1,784,465. THERMOSTAT. BYRON J. PEPPER, Fort Wayne, Ind. Filed Jan. 30, 1925. Serial No. 5,754. 8 Claims. (Cl. 297—3.)



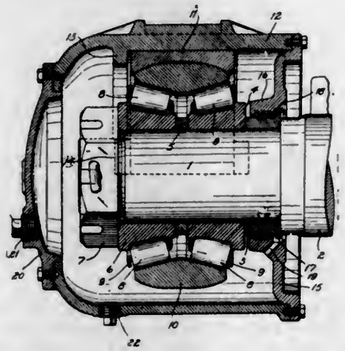
1. A thermometer comprising a bulb in the form of a tubular chamber exposed on the outside and the inside of the tube to the temperature to be measured, said chamber having an outer wall of lower expansivity and thermal conductivity than the inner wall, and means for passing material to be observed as to temperature, first over the outside and then through the inside of said bulb.

1,784,466. STEERING SIGHT ADAPTED TO BE FITTED TO THE MUD GUARDS OF MOTOR VEHICLES. OSCAR RENSONNET, Etterbeek-Brussels, Belgium, assignor to Henry Dujardin, New York, N. Y. Filed Dec. 26, 1929, Serial No. 416,720, and in Belgium Feb. 11, 1929. 3 Claims. (Cl. 116—31.)



1. An indicating device for the mud guards of automobiles comprising an upstanding member having a height materially elevating the upper end thereof above the mud guard of an automobile, and having means at its lower end for attaching the same flatwise against the outside edge of a mud guard.

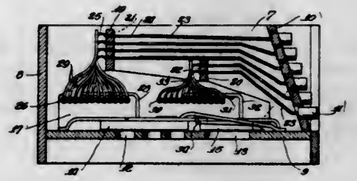
1,784,467. CAR-JOURNAL CONSTRUCTION. WILLIAM L. SCRIBNER, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Mar. 19, 1927. Serial No. 176,629. 7 Claims. (Cl. 308—180.)



1. A car journal construction comprising a journal box, an axle extending thereinto, a seat member slidably mounted in said journal box and provided with a seat on its inner surface that is curved lengthwise of the axle, a bearing cup having its outer surface curved to fit said seat, a bearing cone mounted on said axle and bearing rollers interposed between said cup and said cone, said journal box being provided with an internal rib and said inner box having end lugs engaging the ends of said rib to prevent rotation of said inner box.

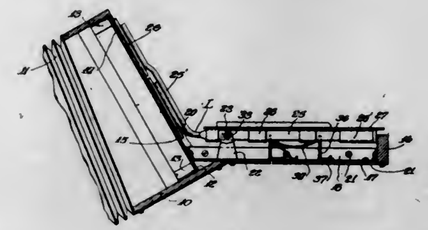
1,784,468. BASS-KEY ACTION FOR ACCORDIONS. MARIO SOPRANI, Castelfidardo, Italy. Filed Feb. 3, 1930. Serial No. 425,477. 6 Claims. (Cl. 84—376.)

4. In a musical instrument of the class described, the combination of a plurality of valves, a plurality of rotatable rods arranged side by side in a common plane, an actuating arm on each rod, a stem for each valve in the path of one of said arms to be operated upon rotation of the rod, key bars terminating each in an abutment at its inner end, a guide for said key bars, a plurality of lever pins extending from each rod, the pins of all said rods



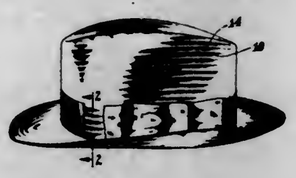
being deflected with their outer ends arranged in a common plane adjacent to and parallel with said guide, the abutment for each key bar being adapted for engagement with a plurality of adjacent lever pins, whereby when a key bar is actuated it will swing the associated lever pins to rotate the corresponding rods and cause actuation of the corresponding valves.

1,784,469. PIANO-KEY ACTION FOR ACCORDIONS. MARIO SOPRANI, Castelfidardo, Italy. Filed Feb. 3, 1930. Serial No. 425,476. 9 Claims. (Cl. 84—376.)



6. In a musical instrument of the class described, the combination of a key board, a fulcrum shaft on said board, a plurality of piano key levers fulcrumed on said rod, each lever being a length of wire having its outer end flattened and disposed in a plane at right angles with said board, a key body for each lever comprising a fingering top and a plurality of lugs extending therefrom having passageways therethrough for receiving the flattened end of the respective lever, and valves controlled by said key levers.

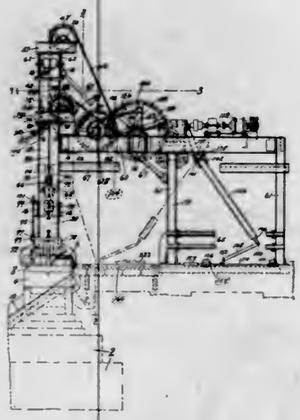
1,784,470. HAT. CARL STEINBERG, New York, N. Y. Filed July 26, 1930. Serial No. 470,848. 2 Claims. (Cl. 2—193.)



1. A hat comprising a crown and a brim and made of a flat braid, the braid being formed of a yarn composed of

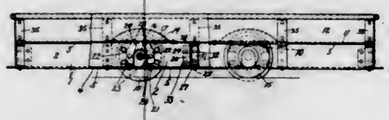
a fluffy fibrous material and a resilient woody material spun together, the resilient woody material being of a character that it will normally retain the form into which it has been set and to readily return to said setting when distorted therefrom, whereby a straw hat effect is produced the form of which is maintained by the resilient woody component of the yarn, and a felt hat effect will be produced by the fluffy fibrous component of the yarn.

1,784,471. WHEEL-BREAKING MACHINE. EMIL C. STOLBERG, East Orange, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 14, 1929. Serial No. 339,997. 24 Claims. (Cl. 29—66.)



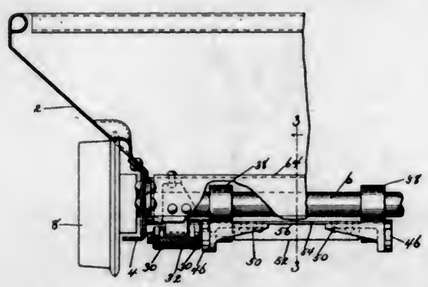
1. In a wheel breaking machine, an anvil to hold a wheel to be broken, a cage normally arranged adjacent the anvil to surround the wheel to be broken, a hammer, a pusher for forcing the wheel to be broken onto the anvil, means for elevating the hammer and cage, means for reciprocating the pusher, and actuating means common to the elevating and reciprocating means for operating said elevating and reciprocating means in predetermined sequence.

1,784,472. MINE CAR. VICTOR WILLOUGHBY, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed May 22, 1925. Serial No. 32,094. 48 Claims. (Cl. 105—304.)



1. In a mine car, sills having vertical webs and inwardly and outwardly projecting flanges, a central floor portion secured to said inwardly projecting flanges, side floor portions secured to said outwardly projecting flanges, braces for said side floor portions secured to said sill webs and axle housings connecting said sill top flanges.

1,784,473. MINE CAR. VICTOR WILLOUGHBY, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 20, 1929. Serial No. 408,501. 20 Claims. (Cl. 105—364.)



1. In a mine car having drop doors, wheels and axles, latches for one of said drop doors mounted on an axle, and means spacing said latches on said axle.

2. In a mine car having drop doors, wheels and axles, latches for one of said drop doors mounted on an axle, and means spacing said latches on said axle and serving as an abutment for said door.

1,784,474. ILLUMINATED ORNAMENTAL OBJECT. EDWIN BIRD WILSON, Forest Hills, N. Y. Filed Dec. 7, 1927. Serial No. 238,302. 4 Claims. (Cl. 240—10.)

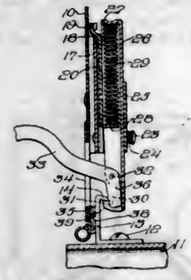


1. In an ornamental object, a plurality of profile members assembled by intersection to represent the object, apertures in the body of said members remote from the axis of intersection thereof and electric lamps positioned in said apertures, said lamps being held in position by means of a flat member having a slit therein for cooperating with the profile member, said slit coacting with the said member in such manner as to hold it at right angles adjacent to said lamp.

1,784,475. HOOD CATCH. WALTER D. YOUNG, Flint, Mich. Filed Nov. 14, 1928. Serial No. 319,842. 6 Claims. (Cl. 292—65.)

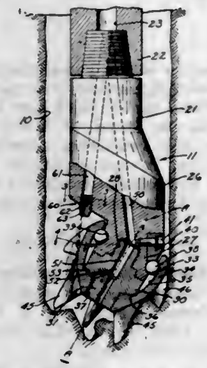
1. A catch of the class described comprising, in combination, a support adapted to be secured to a movable panel, a guide member pivotally secured to said support,

a slidable bolt carried by said guide member, spring means constantly urging said bolt in one direction with respect to said guide member, spring means constantly urging said



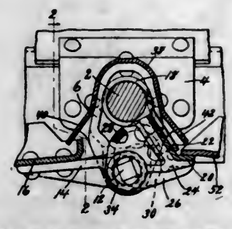
guide member in one direction relative to said support, a handle carried by said bolt, and a fixed member engageable by said bolt.

1,784,476. CLEANING DEVICE FOR ROTARY DRILLING TOOLS. JOHN A. ZUBLIN, Los Angeles, and ELMER T. SCOTT, Bell, Calif.; said Scott assignor to said Zublin. Filed Jan. 5, 1929. Serial No. 330,526. 11 Claims. (Cl. 255—71.)



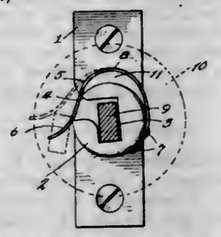
1. In a rotary bit, the combination of: a shank; a cutter rotatable on said shank and adapted to rotate as said shank rotates; and nozzle means for directing a flow of fluid tangentially against said cutter, said nozzle means comprising a nozzle body rotatably mounted in said shank and providing an eccentric orifice.

1,784,477. MINE CAR. LEOPOLD ALMQUIST, Jersey City, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 5, 1928. Serial No. 310,656. 14 Claims. (Cl. 105—253.)



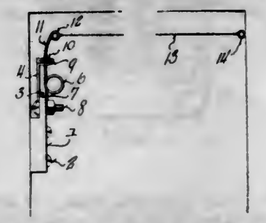
1. In a mine car, a drop door pivotally mounted on the car, a latch for holding said door in closed position, a second drop door, a hinge for attaching said second door to the car comprising a rectangular hinge pin and a cam having an open-ended slot receiving said hinge pin and operated by said hinge pin to operate said latch.

1,784,478. SHADE AND AWNING ROLLER BRACKET. JESS BEARDS and LOUIS L. TETELMAN, New York, N. Y. Filed May 6, 1930. Serial No. 450,289. 1 Claim. (Cl. 156—24.)



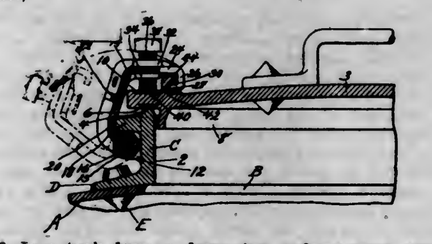
A bracket having a base and a shoulder thereon with a slot in the shoulder, used for shade, awning and other rollers, which bracket has a spring attachment wherein one end of the spring is mounted on and secured to the shoulder of the bracket by riveting, welding or bolting the same to the shoulder, and wherein the free end of the spring resiliently closes the mouth of the bracket slot.

1,784,479. ALARM-CONTROL UNIT. EDWARD BELLMAN, Rockford, Ill. Filed Nov. 26, 1928. Serial No. 321,929. 2 Claims. (Cl. 200—54.)



2. In an alarm control unit, comprising a body portion formed of insulating material and having a longitudinal projecting flange at one end thereof, an L-shaped member having its stem portion adjustably connected to the flange on the insulated body, the lateral portion of said L-shaped member being spaced from the outer extremity of the flange and formed of an aperture, a coil spring member positioned between the lateral portion of the L-shaped member and the flange with one arm on the spring removably connected to the flange and the other arm on the spring extending through the aperture in the lateral portion of the L-shaped member, an eyelet formed at the outer end of the second arm on the spring and means cooperating with the eyelet for normally maintaining the second arm out of contact with the lateral portion of the L-shaped arm.

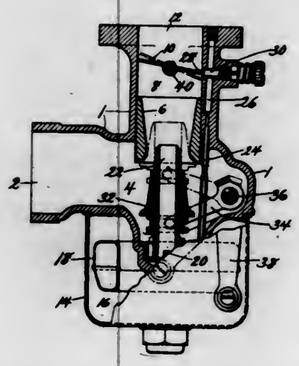
1,784,480. TANK-DOME COVER AND SECURING MEANS THEREFOR. JOHN BEYER, Bayonne, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 9, 1928. Serial No. 268,666. 6 Claims. (Cl. 220—55.)



6. In a tank dome, a dome ring, a dome cover, spaced lugs extending outwardly from the dome ring, a pintle in

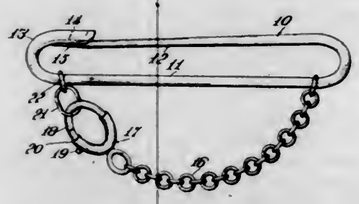
said lugs, a flange connecting said lugs and arranged above the latter, an arm pivotally connected at its lower end to the pintle and adapted to be swung upwardly to position the upper end thereof over the cover, a clamping member carried by the arm for engaging the cover, said arm being capable of vertical movement relative to the pintle when the clamping element is being urged to clamping position whereby said carrying element binds against the flange without transmitting the clamping strain to the pintle.

1,784,481. CARBURETOR. GEORGE M. BICKNELL, St. Louis, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a Corporation of Delaware. Filed May 5, 1927. Serial No. 189,034. 13 Claims. (Cl. 261—52.)



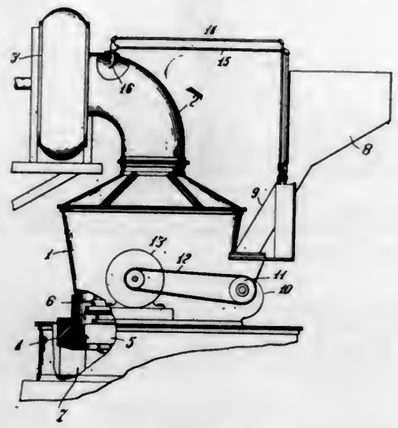
1. In a carburetor, a throttle valve and shaft rotatably supporting said valve, a crank for operating said shaft, a choke valve, a crank for operating said choke valve, a lever loosely mounted on said shaft and operatively engaging said throttle valve operating crank and adjustable means connecting said lever and said choke valve operating crank.

1,784,482. LINGERIE CLASP. MARIAN CRAWFORD, Chicago, Ill. Filed Oct. 7, 1929. Serial No. 397,801. 1 Claim. (Cl. 24—73.)



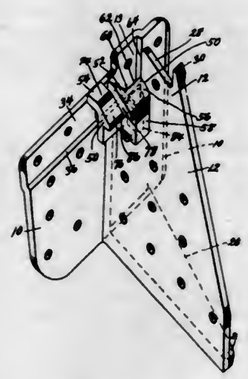
A device for retaining a lingerie strap on the wearer's shoulders comprising a garment clasp consisting of two substantially parallel bars united at one of the ends so as to permit the free ends to be flexed toward each other, the free end of one bar being tapered into a pin-point while the free end of the other bar is bent into hook form adapted to receive the pointed end of the other bar, and a link chain one end whereof is yieldingly secured adjacent to the end of one of the bars, while the other end of the chain is provided with a spring snap, and a link yieldingly connected at the opposite end of said bar and adapted to receive the spring snap, said chain being of length greater than the width of the garment strap to be encircled.

1,784,483. PNEUMATIC FEED REGULATING MECHANISM. PHILIP DAVIDSON, New York, N. Y., and JOE CRITES, Evanston, Ill., assignors to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 22, 1928. Serial No. 327,916. 16 Claims. (Cl. 83—44.)



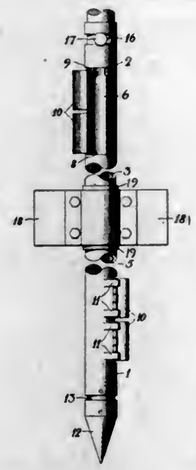
9. The combination with a pulverizing mill, exhausting means for withdrawing material from the mill in suspension in air, a feeder for the mill, and a variable speed motor for driving the feeder, of means for controlling the speed of the motor comprising a series of switches, a plurality of suction devices separately controlling the several switches, and means controlled by pressure variations in the mill for successively actuating the suction devices.

1,784,484. CAR CONSTRUCTION. WILLIAM F. DIETRICHSON, Webster Groves, Mo., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 21, 1929. Serial No. 401,161. 24 Claims. (Cl. 105—404.)



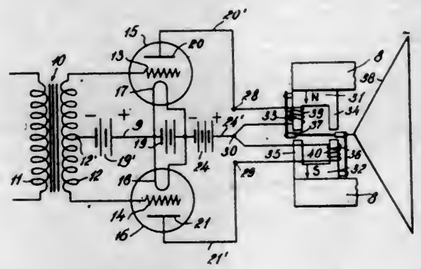
12. In a railway car, the combination of a side sill, an end sill, a corner post, a single piece bracket securing said sills and corner post together, said bracket comprising a front plate to which the end sill is secured, and a side plate extending from the front plate intermediate its side edges and to which the side sill is secured, said side plate defining an external and an internal angle, said corner post being arranged in the external angle and being secured to the front and side plates.

1,784,485. SAMPLER. ROBERT W. ELLMS, Baltimore, Md. Filed Mar. 12, 1930. Serial No. 435,294. 7 Claims. (Cl. 255—1.)



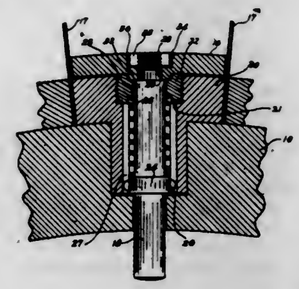
1. A sampling device comprising a tube having an opening in the side thereof, cutter flaps pivoted to one side of said opening, and extending substantially the length thereof, means to limit the opening angle of said flaps, said flaps, when closed, being adapted to partially cover said opening.

1,784,486. LOUD-SPEAKER AND CIRCUIT THEREFOR. CLAIR L. FARRAND, Forest Hills, N. Y., assignor to Farrand Inductor Corporation, Jersey City, N. J., a Corporation of Delaware. Filed Feb. 26, 1929. Serial No. 342,899. 6 Claims. (Cl. 179—171.)



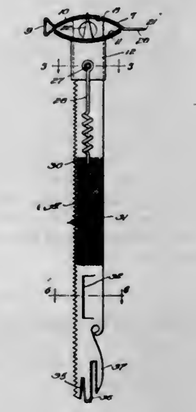
1. The combination of a loudspeaker having a motor comprising at least two poles each having a speech coil and an armature between the poles all arranged so that equal currents passing through the coils will produce like flux changes at the poles and result in no movement of the armature and so that unequal currents passing through the coils will produce unlike flux changes at the poles which result in a movement of the armature, an electric circuit for each of said coils, said circuits having a common path, a source of direct current in said common path whereby steady direct current from said source divides and flows through both of said coils to produce like flux cnanges at said poles resulting in no movement of the armature, and means in said circuits for producing fluctuating currents of unequal value in the speech coils which result in unlike flux changes at the poles and a consequent movement of the armature.

1,784,487. EJECTOR FOR CUTTING CYLINDERS. JOSEPH P. FEENEY, Kearny, N. J., assignor to Congoleum-Nairn, Inc., a Corporation of New York. Filed May 29, 1930. Serial No. 457,455. 4 Claims. (Cl. 164—28.)



1. An ejector for linoleum cutting and inlaying mechanism comprising a block adapted to be secured in a cutting cylinder shell; a spindle slidable in said block, said spindle having a shouldered portion and an externally threaded stem portion adjacent its outer end; a perforated plate engaging the shouldered outer end of the spindle and provided with a nut-receiving recess; and an internally threaded nut interfitting said nut-receiving recess and engaging the threaded stem of said spindle.

1,784,488. COMBINATION TOOL. NATHAN JENKINS, Chicago, Ill. Filed Mar. 1, 1928, Serial No. 258,159. Renewed Oct. 24, 1930. 3 Claims. (Cl. 7—7.)

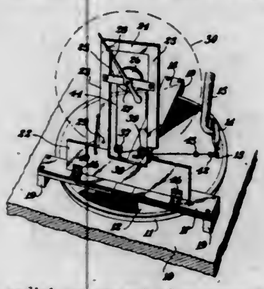


1. A multiple utility tool in which is combined a body constituting a handle and comprising a light metal bar having one end extended laterally and bowed outwardly to provide a fixed jaw, the ends of said laterally extended portion being formed to provide oppositely extending hammer and hatchet portions, and a second oppositely bowed jaw adjustably mounted on said bar relative to said fixed jaw, and means for securing said second jaw in abutting relation with said fixed jaw to provide a rigid head between said hammer and hatchet portions.

1,784,489. TEACHING ATTACHMENT FOR PHONOGRAPHS. WILLYS P. KENT, New York, N. Y. Filed May 8, 1928. Serial No. 275,993. 5 Claims. (Cl. 35—121.)

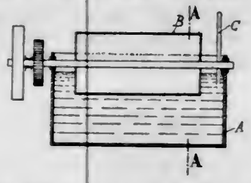
1. For use with a phonograph disc record and a phonograph reproducer for playing the same, a device com-

prising a chart element having indicia relating to the subject matter of the record, a pointer element, one of said elements being movable with respect to the other, and means for moving said movable element proportion-



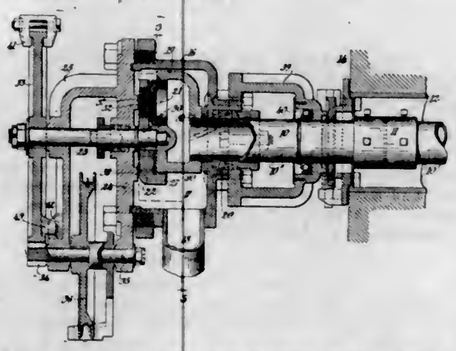
ately to the radial component of movement of the phonograph needle during the needle's traverse of the record, said means comprising a cable extending from the needle to a point over the center of the record and thence to said movable element.

1,784,490. PROCESS FOR THE RECOVERY OF THE TIN CONTAINED IN THE RESIDUES OF TIN-PLATE MANUFACTURE. JEHAN LALEY, Hayange, France, assignor to Les Petits Fils de Francois de Wendel & Cie., Paris, France. Filed Apr. 3, 1928, Serial No. 266,886, and in France Jan. 23, 1928. 2 Claims. (Cl. 75—55.)



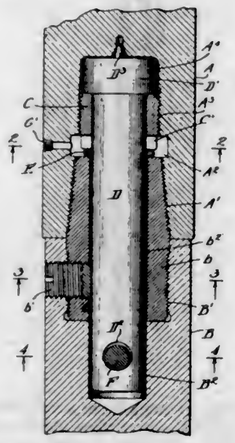
1. A process for the recovery of the tin contained in the residues of tin plate manufacture of the class referred to, which consists in causing a basic liquid in the hot state to act upon the oil and other impurities contained in said residues, in separating by screening the sludge from the tin and impure tin alloy which result from said treatment, and in treating separately the tin and impure tin alloy on the one hand in a furnace, and the sludge on the other hand by reduction in a furnace.

1,784,491. ROTARY SOOT CLEANER FOR BOILERS. FREDERICK W. LINAKER and THEODORE M. BRUBACK, Du Bois, Pa. Filed Oct. 20, 1926. Serial No. 143,027. 7 Claims. (Cl. 122—392.)



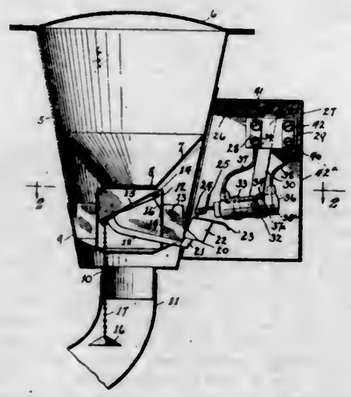
1. A soot cleaner comprising a rotary cleaner element, an enclosed valve for controlling admission of steam thereto, said valve movable relatively to the cleaner element and valve-operating means engaging the valve and adapted through the valve to rotate the element.

1,784,492. LOCK JOINT. LUTHER D. LOVEKIN, Wynnewood, Pa. Filed Sept. 4, 1926. Serial No. 133,550. 8 Claims. (Cl. 287—124.)



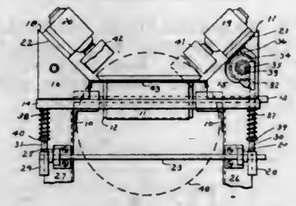
1. In a lock joint construction, a part formed with a socket comprising a tapered and threaded outer portion and an intermediate oppositely threaded portion, an externally threaded bushing screwed into said intermediate socket portion, a bolt having its head received in the inner portion of the socket and bearing against the inner end of said bushing and having its body portion extending through said bushing and projecting out of said socket, and a part having a tapered externally threaded portion screwed into said tapered socket portion and formed with an axial passage receiving said bolt, and means connecting said bolt and second part to prevent their relative rotation.

1,784,493. VALVE-CONTROLLED SWITCH FOR ELECTRIC GRINDERS. HENRY MEYER, Long Island, N. Y. Filed Aug. 23, 1928. Serial No. 301,670. 8 Claims. (Cl. 200—52.)



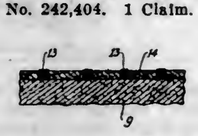
1. The combination of a conical hopper having an interior funnel, an auxiliary hopper below the funnel, a shaft and a pivoted balanced valve within the auxiliary hopper, a lever connected at one end to the valve and extending through the auxiliary and main hoppers, a tilting make and break mechanism included in an electric motor circuit mounted on the outside of the main hopper and in the path of movement of the opposite end of the lever whereby said circuit may be maintained closed during any open position of the said valve.

1,784,494. MACHINE FOR CUTTING ANGULAR ENDS. EDWARD J. O'NEILL, Syracuse, N. Y., assignor to Sterilek Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Sept. 27, 1928. Serial No. 308,835. 3 Claims. (Cl. 164—61.)



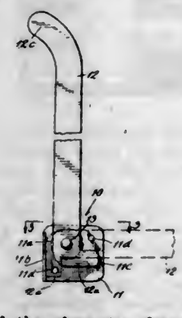
1. In a cutting machine of the class described, a cutting table, one or more cup shaped, knife-edged cutters mounted at an angle to the said cutting table, means for rotating and means for angularly raising and lowering said cutter or cutters in relation to the cutting table.

1,784,495. METHOD OF ORNAMENTING SURFACES. CORNELIUS J. O'NEIL, Oak Park, Ill. Filed Dec. 24, 1927. Serial No. 242,404. 1 Claim. (Cl. 41—39.)



A method of ornamenting a surface which comprises defining the characteristic to be formed by moulding directly onto the surface through the interstices of a matrix a plastic material which sharply conforms to the margins of the interstices and fills the inequalities of the surface, allowing the material to become substantially brittle, coating said surface around the moulded characteristic with a sand-blast-resistant material, and subjecting the surface to a sand-blast.

1,784,496. CURTAIN-RETAINING DEVICE. HARRY BODSTEIN and ISIDORE NATHANSON, Brooklyn, N. Y. Filed May 16, 1930. Serial No. 452,824. 6 Claims. (Cl. 156—33.)



2. A device of the character described comprising a base plate, an arm, an eyelet rivet extending from one side of said plate for pivotally securing thereto said arm adjacent one end thereof, means adjacent said rivet for frictionally engaging said arm to retain the latter in an inoperative position, means for engaging said arm end for rigidly retaining the arm in an effective position, and means projecting from the other side of said plate for attaching the device to a support.

1,784,497. ORGANIC METALLO MERCAPTO SULPHONIC COMPOUND AND PROCESS OF MAKING SAME. WALTER SCHOELLER, ERICH BORGWARDT, and ADOLF FELDT, Berlin, Germany, assignors to Chemische Fabrik auf Actien (vorm. E. Schering.), Berlin, Germany, a Firm. Filed Apr. 26, 1927, Serial No. 186,815, and in Germany May 5, 1926. 3 Claims. (Cl. 260—11.)

1. As new products organic metallic mercapto sulphonic compounds corresponding to the formula

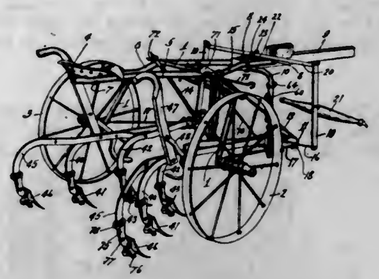
$$X\cdot(NH\cdot CH_2\cdot SO_3Na)\cdot(S\cdot Me)\cdot(SO_2y)$$

wherein X is an aliphatic, aromatic, or heterocyclic radical, Me a heavy metal and y either H or a metal.

1,784,498. PROCESS OF VULCANIZING RUBBER AND PRODUCT OBTAINED THEREFROM. WINFIELD SCOTT, Nitro, W. Va., assignor to The Rubber Service Laboratories Co., Akron, Ohio, a Corporation of Ohio. Filed Aug. 5, 1929. Serial No. 383,773. 20 Claims. (Cl. 18—53.)

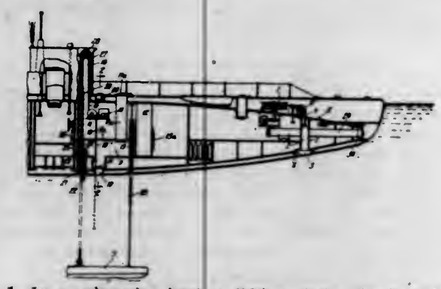
8. The process of producing vulcanized rubber which comprises heating rubber and sulfur in the presence of a mixture of accelerators, said accelerators comprising a reaction product of a dichloracetate and a mercapto-benzothiazole and a guanidine vulcanization accelerator.

1,784,499. CULTIVATOR. JOHN P. SEAHOLM, Moline, Ill., assignor, by mesne assignments, to Minneapolis-Moline Power Implement Company, Minneapolis, Minn., a Corporation of Delaware. Original application filed Oct. 5, 1925, Serial No. 60,374, Patent No. 1,607,646, dated Nov. 23, 1926. Divided and this application filed Mar. 12, 1926. Serial No. 94,112. 4 Claims. (Cl. 97—149.)



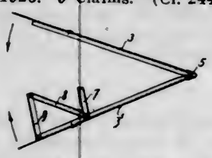
1. The combination in a cultivator of an arched axle, a pair of ground wheels journaled thereon, and a pair of seat supporting bars connected together at their rear ends and diverging forwardly to where they are provided with openings to receive said arched axle, said bars then converging forwardly and being connected to a guiding pole, the top portion of said arched axle having offset bends preventing lateral movement of the seat supporting bar on the axle.

1,784,500. RESCUE SUBMARINE. LAWRENCE Y. SPEAR, New London, Conn., assignor to Electric Boat Company, Groton, Conn., a Corporation of New Jersey. Filed Feb. 20, 1928. Serial No. 255,684. 9 Claims. (Cl. 114—16.6.)



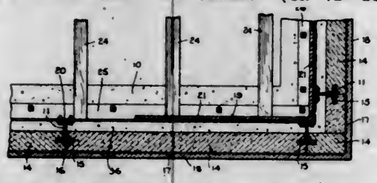
1. In a submarine boat, a lifting chain, the boat having an opening through the bottom of its hull, said chain operating through the opening and being disposed at the approximate centre of gravity of the ballast tanks, and means for limiting movement of the chain through said opening.

1,784,501. PROCESS OF MANUFACTURE OF WEDGE-SHAPED HOLLOW BODIES. LUDWIG STAIGER, Spandau near Berlin, Germany, assignor to the Firm Rohrbach Metall-Flugzeugbau, G. m. b. H., Berlin, Germany. Filed May 16, 1927, Serial No. 191,662, and in Germany May 18, 1926. 9 Claims. (Cl. 244—31.)



1. An aircraft rudder and the like in the form of a wedge shaped metallic hollow body having flat outer skins brought together and suitably connected at one edge, but separated at the other edge by a firmly joined longitudinal wall, firmly attached transverse reinforcing frame members arranged in the direction of flight, the latter including three web bars in zigzag fashion, one of which is attached to the inside of the longitudinal wall and joined to its girders by means of rivets driven parallel to the rudder covering skin with a more remote bar attached to the web girders by means of rivets driven at one end vertically and at the other parallel to the cover skin.

1,784,502. BUILDING CONSTRUCTION. JUNIUS H. STONE, Port Washington, N. Y. Filed Mar. 28, 1929. Serial No. 350,507. 13 Claims. (Cl. 72—16.)



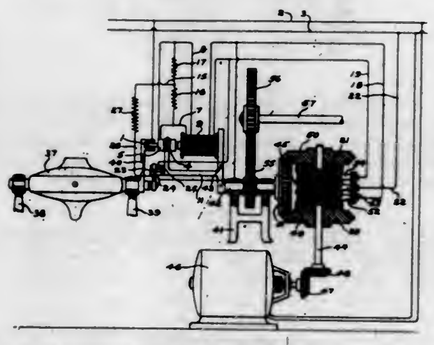
11. In a building construction, the combination of vertically extending structural elements of rigid material, said structural elements individually having vertically extending flanges, blocks of wall material having vertically extending slots at their vertically disposed sides adapted to receive and embrace portions of said flanges, said blocks serving as wall material, layers of covering material serving as covering for the wall material and means for mechanically supporting the covering material from said structural elements.

1,784,503. CEMENT-GUN NOZZLE. EDWARD C. SWANN, New York, N. Y., assignor to Cement Gun Construction Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 6, 1928. Serial No. 304,236. 15 Claims. (Cl. 91—44.)



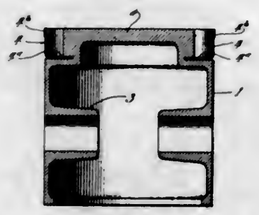
1. A rubber liner for a cement gun nozzle, having a plurality of circularly spaced ribs on the inner surface of the liner.

1,784,504. VARIABLE-SPEED CONTROL DEVICE. HARRY L. TANNER, Brooklyn, N. Y., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a Corporation of New York. Filed May 5, 1926. Serial No. 106,917. 18 Claims. (Cl. 172—239.)



1. In a follow-up mechanism the combination of a bodily movable contact having vibratory movement distinct from its bodily displacement, a bodily movable contact associated therewith, said contacts adapted to be movable relatively to each other, and means actuated by one of said contacts for causing one of them to follow the movement of the other.

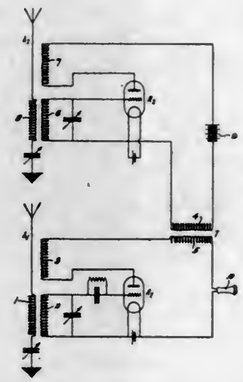
1,784,505. PISTON AND METHOD OF MAKING SAME. RALPH R. TEETOR, Hagerstown, Ind. Filed Sept. 7, 1926. Serial No. 133,737. 9 Claims. (Cl. 74—109.)



1. A ringless piston comprising a body having a reduced head part and a narrow space between said head part and the adjacent body part, and a separate, continuously formed thin steel sealing member unremovably secured to said body, said member being cup-shaped with its horizontal bottom portion extending into and fixed in said space, and its upstanding wall or flange part being substantially parallel with the wall of said body and having its upper edge portion extended radially to engage the cylinder wall, the relative proportions of the foregoing parts being such that the cylinder wall is engaged only by said radially extended portion.

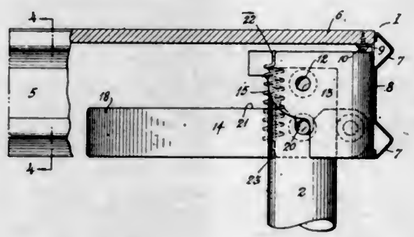
UNIVERSAL LIBRARY OF ATLANTIS

1,784,506. RADIO RECEIVING SYSTEM. GEORG VON ARCO, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Filed Feb. 11, 1926, Serial No. 87,508, and in Germany Feb. 14, 1925. 5 Claims. (Cl. 250—20.)



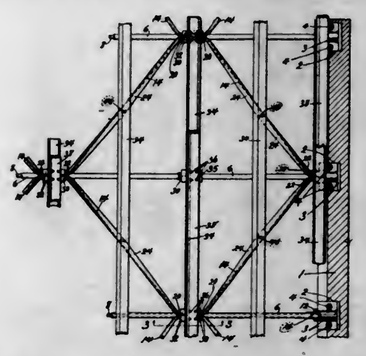
1. In a high frequency signalling system, a circuit comprising an electron tube arrangement adapted to oscillate under the influence of incoming oscillations, a second electron tube circuit having a plate circuit coupled to said first circuit and means comprising said first mentioned electron tube circuit for energizing the plate circuit of the second electron tube circuit solely from the high frequency oscillations generated by said first circuit when said first circuit is oscillating under the influence of oscillations remotely excited.

1,784,507. FOLDING TABLE. THOMAS STEELE WALKER, Newark, N. J., assignor to Isidor Leezenbaum, Newark, N. J. Filed June 21, 1928. Serial No. 287,207. 2 Claims. (Cl. 45—11.)



1. A folding table comprising a table top consisting of a side frame and a top panel, a bracket positioned within each corner of said table and underneath the top panel, a foldable leg pivotally mounted on each bracket and adapted to swing into a closed horizontal positon underneath the table top and within the confines of the side frame and into an open vertical positon, a horizontally projecting pin carried on the side of each of the said legs, an upper and lower pin-engaging shoulder carried by each of said corner brackets and spaced about 90° from each other, and a compound resilient latching means, operatively associated with each of said brackets and mounted in a concealed position underneath said table top for releasably holding said leg in either a closed horizontal position or an open vertical position, said latching means having a recesses to cooperate with the lower shoulder for engaging the projecting pin and for positively holding it when the leg is in a vertical position.

1,784,508. ROOF. CHARLES F. WALP, Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 8, 1929. Serial No. 345,350. 20 Claims. (Cl. 108—1.)

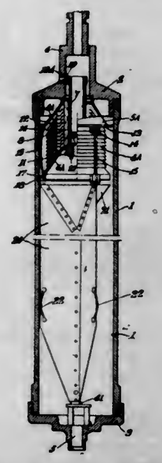


1. In a roof frame, spaced parallel rods, members extending diagonally between adjacent rods and having their ends parallel to and cooperating to receive said rods and purlin supports securing said members together and to said rods.

1,784,509. FILTERING AND DECOLORIZING PAPER OF ACID CHARACTER. WALTER S. BAYLIS, Los Angeles, Calif., assignor to Filtrol Company of California, Los Angeles, Calif., a Corporation of California. Original application filed Apr. 24, 1928, Serial No. 272,572. Divided and this application filed Aug. 5, 1929. Serial No. 383,657. 8 Claims. (Cl. 92—21.)

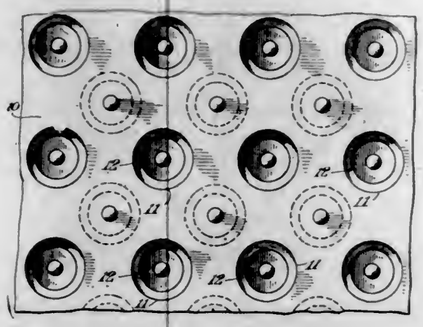
1. A filtering paper containing an acid-activated clay which contains free acid.

1,784,510. CENTRIFUGAL APPARATUS. RAOUL MAXIME BERLINE, Rueil, France, assignor to The Sharples Specialty Company, Philadelphia, Pa., a Corporation of Delaware. Filed May 7, 1929, Serial No. 361,146, and in Luxemburg May 7, 1928. 11 Claims. (Cl. 233—21.)



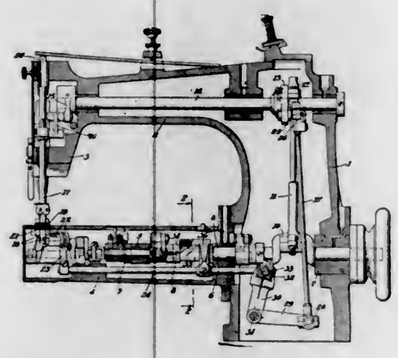
1. In a centrifugal apparatus a cylindrical bowl, dividing cones extending over a portion only of the bowl height and on the side opposite to the inlet of the liquid, means for assembling the dividing cones in a removable group, and springs, carried by this group and which, under the action of centrifugal force come to bear against the sides of the bowl so as to center the group in the bowl.

1,784,511. LAMINATED SHEET STRUCTURE. EDMUND B. CARNS, New York, N. Y., assignor to Cairns Development Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 31, 1927. Serial No. 179,988. 1 Claim. (Cl. 189—34.)



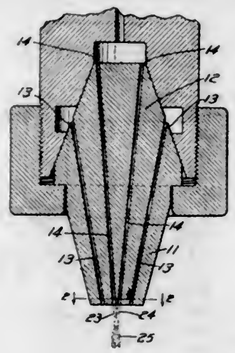
A laminated sheet structure comprising opposed sheets each having embossments with flat extremities said embossments of substantial truncated conical form, the embossments of each sheet bearing against the plane surface of the other sheet and fastened thereto, and said embossments of the opposed sheets lying in staggered relationship.

1,784,512. LOOPER-ACTUATING MECHANISM FOR SEWING MACHINES. ANDREW B. CLAYTON, Union, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Original application filed Jan. 28, 1928, Serial No. 250,111. Divided and this application filed Oct. 11, 1928. Serial No. 311,736. 3 Claims. (Cl. 112—200.)



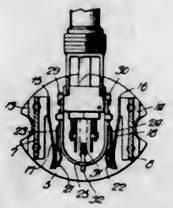
1. In a sewing machine, a frame comprising a standard, a bracket-arm, and a cylinder-bed, a main-shaft journaled in line with and extending into said cylinder-bed, a rocking and sliding looper-supporting shaft journaled in and lengthwise of said cylinder-bed below said main-shaft, operative connections between the main-shaft and looper-supporting shaft within the standard for sliding the looper-supporting shaft, an eccentric on the main-shaft within the cylinder-bed, and means embracing said eccentric for rocking the looper-supporting shaft.

1,784,513. METHOD OF CUTTING SLOTS IN METAL. CLARENCE J. COBERLY, Los Angeles, Calif., assignor to Kobe, Inc., Huntington Park, Calif., a Corporation of California. Original application filed Sept. 29, 1923, Serial No. 665,648. Divided and this application filed July 10, 1929. Serial No. 377,183. 4 Claims. (Cl. 148—9.)



1. A process of cutting keystone-shaped slots in metal which comprises: passing a cutting jet through said metal, said cutting jet being formed by a plurality of non-parallel jets so set as to cause said cutting jet to form the sides of the slot; and causing a relative movement between said metal and said jet.

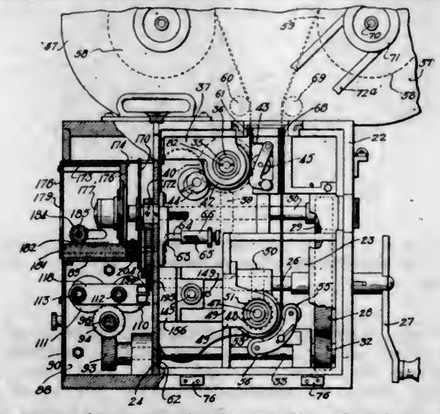
1,784,514. ELECTRIC SWITCH. VICTOR R. DESPARD, Valparaiso, Ind., assignor to McGill Manufacturing Company, Valparaiso, Ind., a Corporation of Indiana. Filed June 3, 1927. Serial No. 196,259. 2 Claims. (Cl. 200—67.)



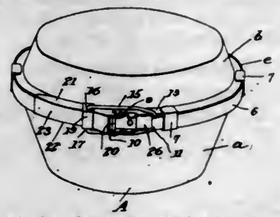
2. An electric switch comprising a support, spaced spring contacts mounted thereon, having their contact faces oppositely directed, a bridging member, means for moving said bridging member transversely to the direction in which said contacts face into and out of position connecting said contacts, and cooperating means on said contacts and member for throwing the arc caused by disconnecting said member and contacts outwardly at an angle to the direction of movement of said member, said means including spring fingers on said member adapted to engage said contacts and having the advancing edges thereof curved away from said contacts, said spaced contacts having convex contacting faces.

1,784,515. BINOCULAR NONSTOP-MOTION-PICTURE CAMERA. HARRY K. FAIRALL, Los Angeles, Calif., assignor to Multicolor Ltd., Los Angeles, Calif., a Corporation of California. Filed Nov. 21, 1925. Serial No. 70,489. 10 Claims. (Cl. 88—18.4.)

1. In a camera the combination of: film advancing means adapted to engage a film for intermittently advancing same; a pair of cranks each directly supporting and operating said film advancing means; and means for operating said cranks in order to operate said film advancing means so that each point in said film advancing means moves in a circular path and in a manner to intermittently advance said film.

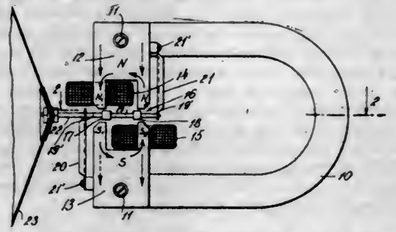


1,784,516. CONTAINER AND MEANS FOR HOLDING SAID CONTAINERS IN COOPERATION. LUKE J. FAIRBANKS, Los Angeles, Calif. Filed Mar. 19, 1927. Serial No. 176,662. 2 Claims. (Cl. 220—61.)



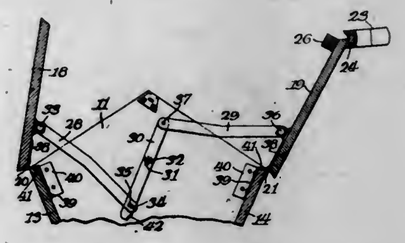
1. Means of the character disclosed, including a pan formed with a curved rim, an annular gasket, provided with a slotted portion to receive said curved rim, said gasket being provided with an annular concavity and whereby said gasket, due to said concavity, may center the said container upon the rim of a second container.

1,784,517. MOTOR FOR LOUD-SPEAKERS. CLAIR L. FARRAND, Forest Hills, N. Y., assignor to Farrand Inductor Corporation, Jersey City, N. J., a Corporation of Delaware. Filed Sept. 25, 1928. Serial No. 308,224. 20 Claims. (Cl. 175—339.)



1. A motor for loud speakers comprising a reciprocating armature unit, a field magnet structure having at least one pair of poles forming at least one gap for the armature unit and an armature suspension comprising at least one flexible member at each end of the armature unit, each of said members being connected at one end to the armature unit and at its other end to a rigid support located to one side of the armature unit.

1,784,518. LID CONTROL FOR WORKBOXES. WILLIAM GILLOOLY, Streator, Ill., assignor to Metal Stampings Corporation, Streator, Ill., a Corporation of Illinois. Filed Jan. 23, 1929. Serial No. 334,521. 15 Claims. (Cl. 312—191.)



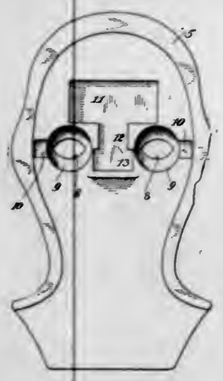
1. In a portable cabinet of the class described, the combination of a receptacle including side and end walls, a pair of lids for closing the top of said receptacle, said lids being hinged to oppositely disposed side walls of said receptacle so as to turn towards and from each other to closed and open position respectively, said lids, when in closed position, having their inner edges substantially abutting one another, a carrying part overlapping adjacent marginal portions of said lids and secured to one of said lids so as to be movable therewith, and means operatively connecting said lids for timing the closing movement thereof so as to cause closing of the lid carrying said part more slowly than the closing of the other lid, thereby permitting said carrying part to assume its overlapping position relative to the first closed lid.

1,784,519. EYE MOUNTING FOR DOLLS. LEO J. GRUBMAN, Belle Harbor, N. Y. Filed Jan. 18, 1927. Serial No. 161,726. 24 Claims. (Cl. 46—40.)



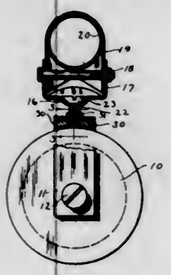
1. In combination, a doll head having horizontal shoulders in its opposite sides adjacent the front wall thereof, an oscillatory eye setting having a shaft positioned with its ends above said shoulders and normally out of contact therewith, and eye members fixed on said shaft movable therewith towards and from the front wall of the doll head, said shoulders limiting downward vertical movement of the setting, and a member fixed to the front wall of the doll head having a part positioned rearwardly of the central portion of the shaft for engagement thereby to constitute a stop limiting the rearward movement of the shaft and the eye members relative to the doll head wall.

1,784,520. EYE MOUNTING FOR DOLLS. LEO J. GAUBMAN, Belle Harbor, N. Y. Filed Feb. 7, 1927. Serial No. 166,372. 26 Claims. (Cl. 46—40.)



1. In combination with a doll head, supporting and retaining means for an oscillatory eye setting mounted upon the front wall of said head, said means including a bearing fixed in relation to said wall and a movable latch part normally engaged with said bearing and vertically movable from its normal position to permit the axis of an eye setting inserted through the neck opening of the doll head to be mounted upon the bearing in operative relation to spaced eye openings in the head wall, and additional means yieldably holding the eye setting in its normal operative position on the bearing and out of contact with said latch means.

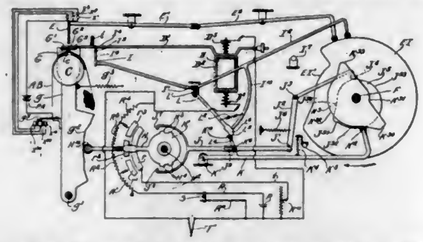
1,784,521. PULLEY MOUNT. JOSEPH M. GWINN, Jr., Buffalo, and RALPH E. OVERSMITH, Kenmore, N. Y., assignors to Consolidated Aircraft Corporation, Buffalo, N. Y., a Corporation of Delaware. Filed Oct. 22, 1928. Serial No. 314,140. 5 Claims. (Cl. 254—195.)



1. A pulley mount comprising a sheet metal portion of substantially U-shape adapted to hold a pulley wheel, a sheet metal supporting portion of substantially U-shape, and a member fixedly attached to the bight part of one of said portions and socketed universally in the bight part of the other portion to universally connect said portions.

1,784,522. METHOD OF AND APPARATUS FOR MEASURING. THOMAS R. HARRISON, Wyncote, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 21, 1929. Serial No. 294,177. 13 Claims. (Cl. 234—11.)

1. The improved method of measuring which consists in causing changes in the value of the quantity measured to deflect an element in proportion to said changes, and causing the deflection of said element to alter said proportion whenever the value of said quantity reaches either



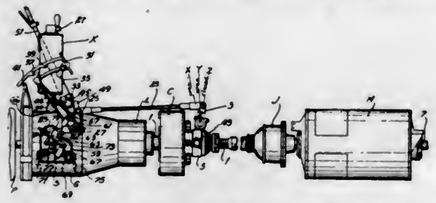
limit of any one of successive ranges of value of said quantity and thereby effect a reverse deflection of said element.

1,784,523. METHOD OF RUBBERIZING FIBROUS MATERIAL AND ARTICLE PRODUCED THEREBY. ERNEST HOPKINSON, New York, N. Y. Filed June 21, 1924. Serial No. 721,591. 15 Claims. (Cl. 91—68.)

6. The method of making rubberized fabric articles of manufacture which comprises relatively thickly covering normally penetrable fabric, without substantial penetration thereof, by a single coating operation with concentrated latex containing low temperature curing ingredients, and curing, thereby attaining a minimum loss of flexibility.

9. The method of making rubberized articles of manufacture which comprises superficially treating normally penetrable fibrous material with water repellant material to prevent substantial penetration thereof by water, then superficially coating it with a coating material embodying rubber in water dispersion, and drying.

1,784,524. AUTOMOTIVE DRIVE. THORVALD JENSEN, St. Louis, Mo., assignor to The Winther Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 19, 1926. Serial No. 96,109. 4 Claims. (Cl. 290—14.)

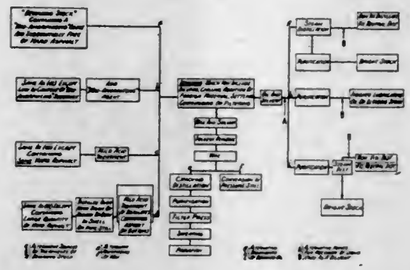


1. A vehicle drive comprising a prime mover, a generator connected therewith, a motor mechanically connected for driving the vehicle adapted to receive electrical energy from the generator, a mechanical connection between the generator and said mechanical connection of the motor, a clutch adapted to open the connection between the generator and said motor mechanical connection, means for opening and closing said clutch, a controller for reversing motor operation, an interlock between said controller and said clutch operating means adapted to prevent motor reversal when the clutch is closed and to prevent closing of the clutch after a motor reversal has been made and a switch for opening the motor-generator circuit, operated by said clutch operating means and adapted to close the circuit at a period when the clutch is open and open the circuit when the clutch is closed.

1,784,525. METHOD OF DEWAXING PETROLEUM OIL. LEO D. JONES, Philadelphia, Pa., assignor to The Sharples Specialty Company, Philadelphia, Pa., a Corporation of Delaware. Filed Oct. 7, 1925. Serial No. 61,125. 16 Claims. (Cl. 196—19.)

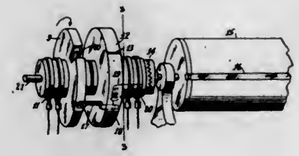
6. In the dewaxing of petroleum oil that contains crystalline wax and amorphous wax the step comprising

reducing the temperature of the oil and removing the wax which precipitates in amorphous form, while the oil con-



tains those impurities which naturally occur in petroleum oil and which cause all of the wax precipitated in the oil by reduction of temperature to be in an amorphous state.

1,784,526. PHASE-CORRECT COUPLING FOR PICTURE TRANSMISSION. AUGUST KAROLUS, Leipzig, Germany, assignor to Radio Corporation of America, a Corporation of Delaware. Filed Jan. 26, 1928, Serial No. 249,636, and in Germany Feb. 11, 1927. 7 Claims. (Cl. 178—7.)



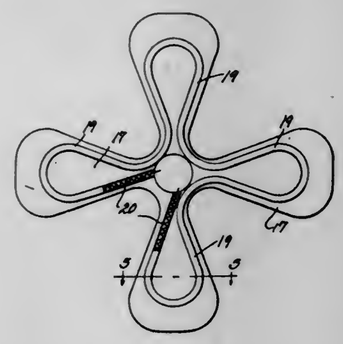
1. A system for correcting the phase adjustment of a transmitter and receiver drum for picture telegraphy systems which includes means for driving the drum of a picture receiving system in synchronism with a corresponding element of a transmitter system, means for stopping the rotation of the receiving drum during periods when phase adjustments thereof are to be made, means for adjusting and coordinating the phase of the receiver drum with that of the transmitter while said receiver drum is stationary, and means for positively driving and starting the receiver drum from a stationary position after proper phase adjustments have been made.

1,784,527. CAR SEAT. JOHN M. KNIGHT, Atlantic Highlands, and VICTOR WILLOUGHBY, Ridgewood, N. J., assignors to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 18, 1928. Serial No. 300,461. 18 Claims. (Cl. 155—96.)



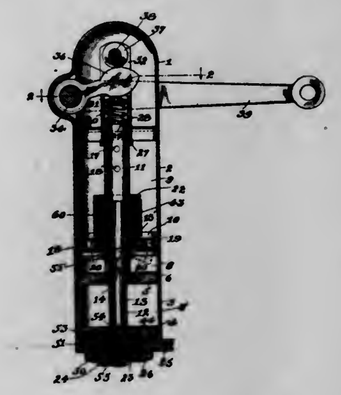
1. In a car seat, a pedestal, a spider rotatably mounted on said pedestal, a member slidably mounted on said spider, a seat hinged to said member, locking means for said spider, locking means for preventing sliding of said member and means for operating said locking means and shifting said member on said spider.

1,784,528. ELECTRIC HEATING APPARATUS. OTTO F. LIDKE and GEORGE E. LIDKE, Denton, Mich.; said Otto F. Lidke assignor of one-fourth to Lee A. Yoder, Romulus, Mich. Filed Oct. 4, 1929. Serial No. 397,175. 6 Claims. (Cl. 219—42.)



3. In an electric heating apparatus, a fan formed from two sheet metal plates secured together in face to face relation, each plate being formed with a continuous channel extending into each blade of the fan, the plates being welded together with the channels opening toward each other to form a continuous conduit between the plates, the ends of the conduit terminating adjacent the fan center, a flexible insulating tube positioned in and extending throughout the length of the continuous conduit, and an electric heating element extending through the insulating tube.

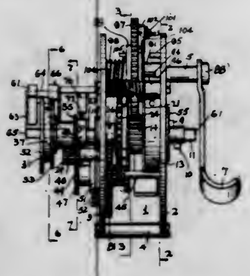
1,784,529. SHOCK ABSORBER. LOUIS L. LOMAR, Houston, Tex., assignor of forty-nine one hundredths to The Houston Company, Houston, Tex., a Corporation of Texas. Filed Aug. 26, 1926. Serial No. 131,684. 26 Claims. (Cl. 188—88.)



1. In a device of the character described, a casing adapted to contain a fluid, a partition dividing said casing into two chambers, an operating lever, said casing and lever being adapted to be attached to relatively movable parts of a vehicle, a piston within one of the chambers of said casing, a hollow piston rod operatively connecting said piston to said lever, said piston rod having ports

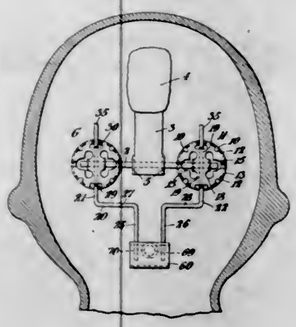
opening into both of the chambers of said casing and means to progressively retard the flow of fluid through said ports upon movement of said piston and piston rod.

1,784,530. COMBINATION FIRE-ALARM AND WATCHMAN'S RECORDING BOX. FRANCIS B. LOVE and BOYD H. SMITH, Shelby, Ohio, assignors to The Auto-Call Company, Shelby, Ohio, a Corporation of Ohio. Filed Feb. 17, 1925. Serial No. 9,829. 18 Claims. (Cl. 177—364.)



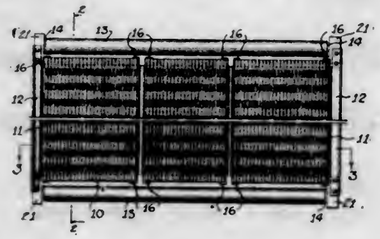
1. In a device of the class described, a set of contact elements connected in a first circuit, a set of contact elements connected in a second circuit, and mechanism for actuating said respective sets of contacts to transmit distinctive signals over said circuits, comprising an axially shiftable shaft, coding mechanism carried by said shaft and normally disposed in cooperable relation with said first set of contacts only, a motor for driving said contact mechanism, means for energizing said motor, separate means for energizing said motor and for simultaneously shifting said shaft to move said coding mechanism into cooperate relation with said second set of contacts only, and means for holding said shaft in shifted position throughout a complete operative cycle of the device.

1,784,531. EYE SET FOR DOLLS AND LIKE TOYS. SAMUEL MARCUS, Brooklyn, and ALEXANDER KONOFF, New York, N. Y., assignors to Markon Mfg. Co., Inc., New York, N. Y., a Corporation of New York. Filed Sept. 1, 1927. Serial No. 216,804. 11 Claims. (Cl. 46—40.)



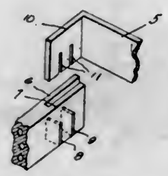
1. An eye set comprising a pair of eyes, a support for said eyes by means of which the eyes are oscillatable upon a common horizontal axis, a gravity controlled device for operating said eyes, the eyes each comprising a semi-spherical shell part and a rear wall part, the rear wall part having a pair of openings therethrough spaced away from each other, and said device having parts threaded through said openings free of the support for thereby connecting the device with the eyes, together with means for connecting the eyes with the support.

1,784,532. ELECTRODE FOR ELECTROLYTIC CONDENSERS AND THE LIKE. RALPH D. MERSHON, New York, N. Y. Filed July 18, 1923, Serial No. 652,248. Renewed May 2, 1930. 8 Claims. (Cl. 204—4.)



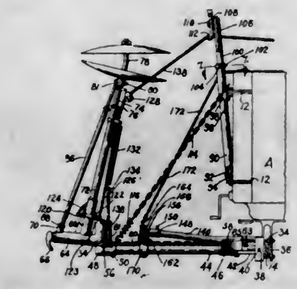
7. In an electrode for electrolytic apparatus, a corrugated plate of thin sheet aluminum, and metal stiffening members at the side edges of the plate parallel with the corrugations thereof and connected therewith to prevent vibration of the side edges of the plate.

1,784,533. TYPE-FORM STORAGE AND LOCK-UP FRAME. FREDERICK WILLIAM MULLER, Atlanta, Ga. Filed Feb. 12, 1929. Serial No. 339,410. 1 Claim. (Cl. 101—404.)



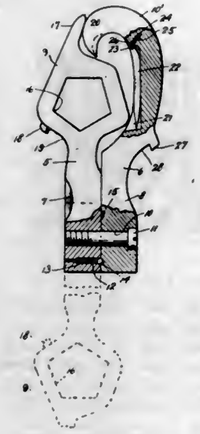
In a type form storage and lock up frame of the class described, a pair of longitudinally spaced parallel side members, having their opposite ends bifurcated longitudinally, transverse keeper plate embedded in said furcations and bridging the space between the furcations, and a pair of duplicate end members having laterally directed end portions removably receivable between the furcations, said end portions having spaced notches forming keeper seats for removable reception of said keepers.

1,784,534. TRACTOR PILOT STRUCTURE. ORR T. NICHOL, Omaha, Nebr., assignor to Nichol Manufacturing Company, Omaha, Nebr., a Corporation of Nebraska. Filed Nov. 19, 1929. Serial No. 408,269. 15 Claims. (Cl. 97—49.)



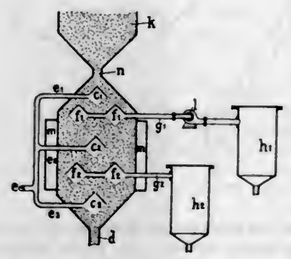
1. In a tractor pilot structure, a supporting member adapted to be attached to the front axle of a tractor, a pilot tongue pivoted thereto and extending forwardly therefrom, a pilot head pivoted to the forward end of said pilot tongue, a pilot arm, extending transversely from said pilot head, a pilot wheel on the outer end of said pilot arm, a steering connection between the front wheels on said front axle and said pilot tongue and means for maintaining said pilot head at substantially the same angle relative to the tractor throughout the entire swinging movement of said pilot tongue, said means comprising arms on said supporting member and on said pilot head and flexible members having their ends connected to said arms.

1,784,535. FIREMAN'S HOSE SPANNER AND SCALING HOOK. WAYNE OSTERBY, Astoria, Oreg. Filed Jan. 11, 1929. Serial No. 331,942. 2 Claims. (Cl. 7—1.)



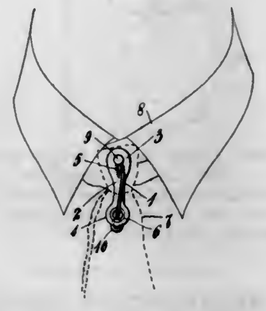
1. A tool of the character described comprising a pair of foldable tool sections pivotally connected at one end to each other, a scaling hook formed at the free end of one of said sections, a head at the free end of the other section, a projection extending outwardly from the head constituting a jimmy, one edge of said head and said projection cooperating to form a guard for the hook and adapted to accommodate the same when the sections are disposed in folded position.

1,784,536. PROCESS FOR REGENERATION OF ADSORPTION MATERIAL. VITALIS PANTENBURG, Frankfort-on-the-Main, Germany, assignor to American Lurgi Corporation, New York, N. Y., a Corporation of New York. Filed July 23, 1925, Serial No. 45,723, and in Germany Nov. 12, 1924. 3 Claims. (Cl. 252—4.)



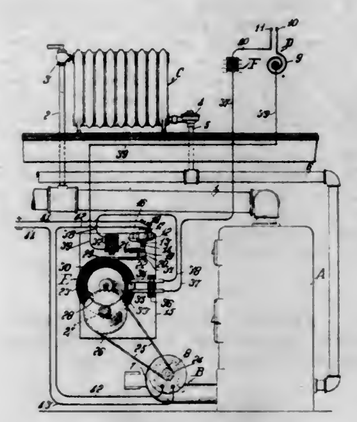
1. Process of regenerating adsorption material, which consists in passing a column of the material through a heat zone, passing an inert gas into the column near the end where the material enters the heat zone, and withdrawing gaseous products from the column intermediate the ends thereof.

1,784,537. NECKTIE HOLDER. WILLIAM G. RAU, Louisville, Ky. Filed Apr. 4, 1929. Serial No. 352,433. 4 Claims. (Cl. 24—56.)



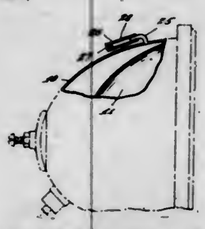
1. In combination with a collar, fastening means for said collar, and a necktie in front of said fastening means, an elastic tension element having one end part engaging said collar-fastening means and extending down behind said necktie, and a pin extending through a part of said necktie and then through the opposite end part of said tension element and then into a part of said necktie, whereby said tension element holds said necktie up in front of said collar-fastening means.

1,784,538. CONTROL APPARATUS FOR HEATING SYSTEMS. FRED I. RAYMOND, River Forest, Ill. Filed June 13, 1929. Serial No. 370,610. 9 Claims. (Cl. 236—78.)



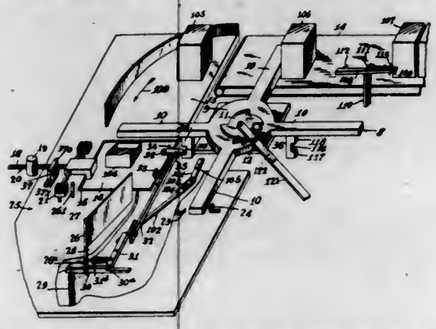
7. In a system for controlling temperature, means for changing the temperature, thermostatic means operating at a predetermined temperature for setting the temperature changing means in operation, and means operated by the temperature changing means for halting the operation thereof after a predetermined minimum period of time, said latter means being ineffective if the thermostatic means is still in the operative position.

1,784,539. LAMP. CHESTER S. RICKER, Waukesha, Wis. Filed Feb. 28, 1929. Serial No. 343,376. 4 Claims. (Cl. 240—41.)



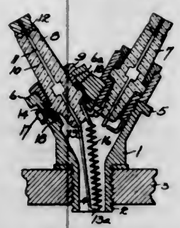
3. In a lamp, a light source, a light-source enclosure including a reflector, and an outwardly opening check-valve the interior of said enclosure being sealed against communication with the atmosphere except through said outwardly opening check valve.

1,784,540. WEIGHT-CHECKING DEVICE. DAVID W. RIPLEY, Fresno, Calif., assignor to Sun-Maid Raisin Growers of California, Fresno, Calif., a Corporation. Filed June 27, 1927. Serial No. 201,947. 3 Claims. (Cl. 209—121.)



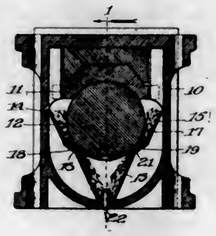
1. In a weight checking device the combination of a balancing scale having a platform, means for moving objects to be weighed upon and off said platform, a gate pivoted and positioned to selectively direct the movement of the object from the platform, said gate being held in one of said positions by means of a catch, means for tripping said catch attached to the scale platform and means for actuating the tripping means attached to the means for moving the object off the scale platform, and positioned so that said means for actuating the tripping means will not engage the tripping means when the scale platform is balanced, and that the tripping means will be engaged by the means for actuating the tripping means when said scale platform is not balanced.

1,784,541. HEATED SPARK-PLUG HOLDER. RENÉ ROUILLARD, Detroit, Mich. Filed June 19, 1929. Serial No. 372,138. 1 Claim. (Cl. 123—169.)



As a new article of manufacture, a spark plug holder consisting of a fitting one extremity of which is adapted to be secured to a cylinder, said fitting being provided with two branches, a removable heater extending through one branch and into the body of the fitting, and a second branch adapted to receive a spark plug in such a manner that the latter may be removed therefrom, said second branch being so positioned that the terminals of the spark plug will lie adjacent the main body of the fitting at its extremity remote from the cylinder so that fuel passing from the cylinder to the spark plug passes adjacent the heater before reaching said plug.

1,784,542. LUBRICATOR FOR RAILWAY JOURNAL BOXES. CHARLES B. ROYAL, Chicago, Ill. Filed Mar. 30, 1928. Serial No. 265,828. 2 Claims. (Cl. 308—87.)

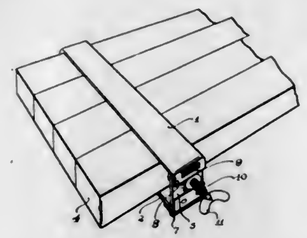


1. In a device of the character set forth, a railway journal box, provided with bottom and side walls, interior inclined walls connecting the bottom wall and side walls of said journal box, and end wall members connecting the lower portion of said interior walls so as to form therewith a lubricant compartment below the journal.

1,784,543. PRODUCTION OF ADSORBENTS. HEINRICH BERNHARD RÖDER, Frankfort-on-the-Main, Germany, assignor to Lurgi-Gesellschaft für Wärmtechnik m. b. H., Frankfort-on-the-Main, Germany. Filed Oct. 22, 1927, Serial No. 228,110, and in Germany Nov. 11, 1926. 7 Claims. (Cl. 252—2.)

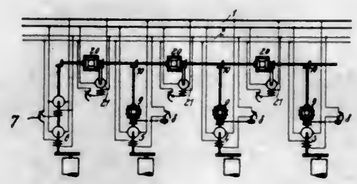
1. As a new adsorbent material, flue dust from all kinds of furnaces.

1,784,544. CLAMP. JOHN J. RUSSELL, Rochester, N. Y. Filed Mar. 6, 1929. Serial No. 344,708. 2 Claims. (Cl. 144—297.)



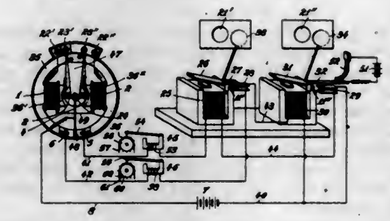
1. A clamp comprising two substantially parallel arms, a connecting piece securing the arms together at one end substantially in parallel relation, a movable connector between the other ends of the arms, hinged to one of the arms on an axis extending transversely of such arm to swing away from the other arm and open the space between them, and having a detachable connection with the other, and a clamping screw adjustably mounted on the connector.

1,784,545. DRIVE FOR PAPER MACHINES. FRIEDRICH SCHIEBUHR, Berlin-Charlottenburg, Germany, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany, a Corporation of Germany. Filed Feb. 14, 1929, Serial No. 339,818, and in Germany Feb. 10, 1928. 4 Claims. (Cl. 172—293.)



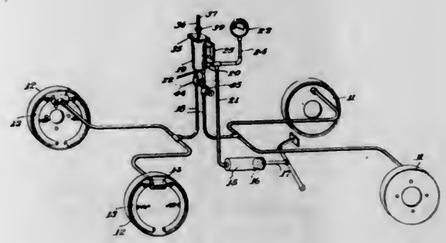
2. In a paper machine drive, in combination, section driving motors for the paper cylinders, field regulators for said section driving motors, a master shaft section for each section driving motor, differential drives interposed between adjacent master shaft sections, regulating means for the speed of the differential members of said differential drives connected with said drives, a differential drive interposed between each section driving motor and the respective master shaft section, and connecting means between the differential member of each sectional differential drive and the pertaining field regulator for individually controlling said section driving motors.

1,784,546. APPARATUS FOR CONTROLLING AND INDICATING EARTH LEAKAGES IN ALTERNATING-CURRENT LINES. MANFRED SCHLEICHER, Berlin-Charlottenburg, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, Germany, a German Corporation. Filed Nov. 28, 1925, Serial No. 72,002, and in Germany Sept. 16, 1925. 7 Claims. (Cl. 177—311.)



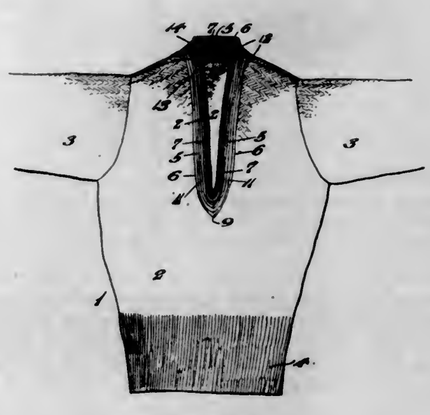
2. A relay for supervising alternating current lines in regard to earth leakages, comprising in combination a leakage detector having stationary field coils, an oscillatingly arranged system including a coil having small damping and being arranged in the field of said stationary coils, and a contact arm operated by said coil, said detector having terminals adapted to be connected to the lines to be supervised, a contact device consisting of two stationary contact elements arranged on opposite sides of the said detector contact arm and adapted to be individually closed by the latter, two electro-magnets having exciting coils, at least one movably arranged indicator armature operated by one of said electro-magnets, and electrical circuit connections including a source of current, one of said stationary elements and the exciting coil of one of said electro-magnets, and means including circuit connections controlled by the other stationary contact element for preventing said exciting coil from moving its armature into indicating position when said contact arm abuts against said other contact element.

1,784,547. HYDRAULIC BRAKE MECHANISM. CLARENCE CARL SCHMIDT, Reynoldsburg, and JOHN LOUIS RICHTER, Bexley, Ohio. Filed May 5, 1928. Serial No. 275,365. 1 Claim. (Cl. 188—152.)



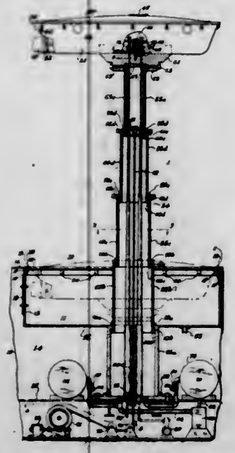
A hydraulic braking system for vehicles comprising a pair of rear fluid operated braking elements and a pair of front fluid operated braking elements, conduits for conducting liquid to said braking elements, a cylinder having a pair of ports in one end, one of said ports being connected to the front liquid conduit and the other connected to the rear liquid conduit, valves in said conduits having means for indicating the size of the opening from the conduits to the said cylinder, a piston in said cylinder, a spring on one side of said piston, the other side of the piston being exposed to the liquid in the system, means for varying the tension of the spring, a second cylinder having a manually operable piston movable therein, a fluid conduit from the said last-named cylinder to the first-named cylinder for applying pressure to the latter, and means for indicating the pressure applied, substantially as set forth.

1,784,548. CORDED-EDGE KNIT NECKBAND FOR SWEATERS AND THE LIKE. CHARLES SEIDMAN, Philadelphia, Pa. Filed May 13, 1929. Serial No. 362,484. 2 Claims. (Cl. 2—90.)



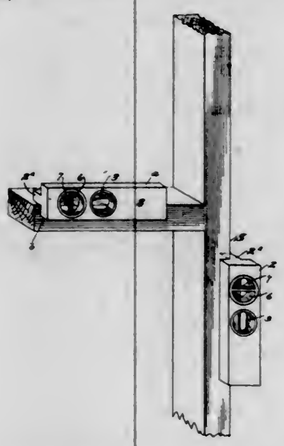
1. A sweater having a neck-band of a continuously knit flattened tubular portion having a substantially unstretchable outer corded raised edge with double the number of threads therein, and means uniting said tubular portion to the body portion of the sweater.

1,784,549. VESSEL AND AUXILIARY BOAT THEREFOR. EDWARD J. SHOEMAKER, Canton, Ohio. Filed Feb. 7, 1928. Serial No. 252,470. 5 Claims. (Cl. 114—16.7.)



1. A vessel, an independently navigable auxiliary submarine boat including means operable from within the boat for propelling and navigating the boat, a rigid connecting member extending between the vessel and the boat, and means for releasably engaging the boat with the connecting member.

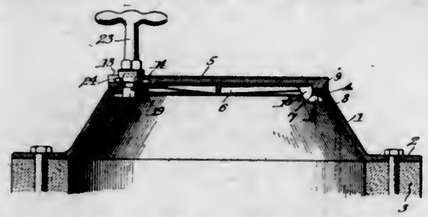
1,784,550. DOUBLE-READING PLUMB LEVEL. JOHN SINNER and OSCAR A. SINNER, Los Angeles, Calif. Filed Nov. 14, 1927. Serial No. 233,177. 2 Claims. (Cl. 33—207.)



1. A carpenters' level having a body of T shaped cross-section presenting a web along both sides of which are re-entrant corner angles, said body having a window from front to back of the main or front part, and spirit glasses for multiple, plane indication arranged in the window.

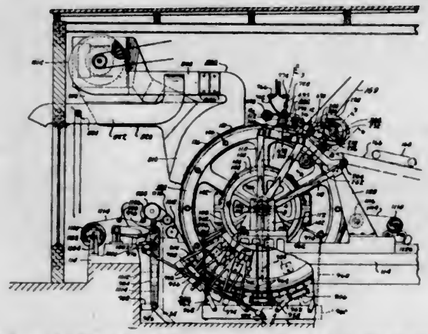
1,784,551. METER-BOX LID. MARION F. SMITH, Decatur, Ill., assignor to Mueller Co., Decatur, Ill., a Corporation of Illinois. Filed Nov. 26, 1927. Serial No. 235,932. 3 Claims. (Cl. 137—13.)

1. In a meter box, a top member, a lid resting thereon, an open ended recess in the lid having a groove extending about the wall at the opposite end of the recess, a locking means for clamping the lid and top member together rotatably mounted in the lid with its operating extremity disposed in said recess, and a key for turning the



locking means engaging said operating extremity and having means engaging in said groove whereby the groove will act as a thrust receiving element in the turning of the locking member.

1,784,552. MACHINE FOR PRODUCTION OF PILE FABRICS. PAUL S. SMITH, Madison, and EMIL G. JEGOU, Montclair, N. J., assignors to Lea Fabrics Inc., Newark, N. J., a Corporation of Delaware. Filed Feb. 23, 1929. Serial No. 342,216. 71 Claims. (Cl. 154—1.)

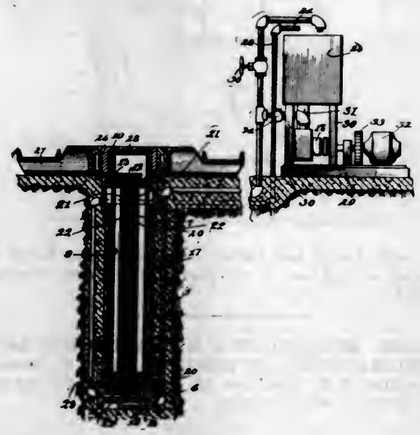


81. In a machine of the kind described, a cylindrical drum, "wires" mounted on the surface of said drum, means for driving said drum from a main drive shaft, an inserting mechanism having an inserting element for inserting pile element material between said "wires," means operatively connected with said main drive shaft for intermittently operating the said inserting element and means for moving the said element so that when engages with said "wires" the said element will be positively moved therewith.

55. In a machine of the kind described, a cylindrical drum having a series of spacing elements thereon, an inserting mechanism having inserting elements for inserting pile element material between said spacing elements, means for rotating the drum, means for operating the said inserting mechanism in synchronized relation with the rotation of said drum, means for mounting the inserting mechanism and the said means for rotating the drum so that the inserting elements and the drive portion of the said means for rotating the drum operate in the same plane, including the axis of the drum, thereby insuring the registration of the inserting elements with the spaces between said spacing elements irrespective of temperature changes or other factors tending to cause deviation.

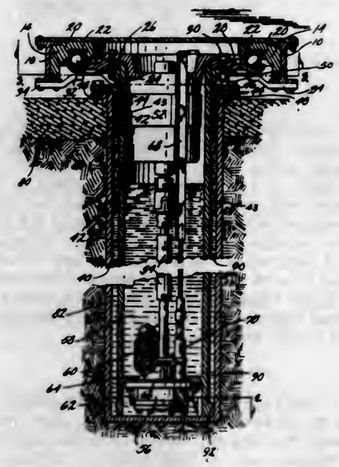
1,784,553. HYDRAULIC JACK. LOUIS C. STUKENBORG, Memphis, Tenn., assignor to Oildraulic Lift Company, Memphis, Tenn., a Corporation of Delaware. Filed July 8, 1927. Serial No. 204,326. 8 Claims. (Cl. 138—9.)

1. In a lifting jack, a vertically arranged cylinder, a fluid pressure raised piston mounted therein, a fluid holding receptacle, a continuously operating pump having communication with the receptacle, a pipe communicating with the pump having one end in communication with the lower end of the cylinder and its opposite end arranged to discharge into the receptacle, a manually controlled valve



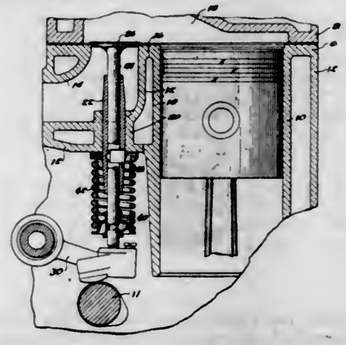
in the pipe between its discharge end and its point of communication with the pump, said pipe serving to conduct fluid to the cylinder to elevate the piston when the valve is closed and to discharge the fluid into the receptacle when the valve is open whereupon the piston will descend.

1,784,554. ROTARY AUTOMOBILE LIFT STRUCTURE. LOUIS C. STUKENBORG, Memphis, Tenn., assignor to Oildraulic Lift Company, Memphis, Tenn. Filed June 14, 1929. Serial No. 370,765. 8 Claims. (Cl. 104—44.)



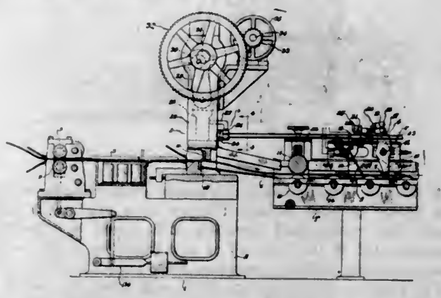
1. In a device of the class described, the combination of a cylinder having a lifting ram projecting therefrom and a packing means interposed between the cylinder and the ram, a superstructure rotatably mounted on the ram and adapted to engage and support an automobile or the like, a thrust bearing between said lifting ram and said superstructure, such bearing having a co-efficient of friction less than the co-efficient of friction between said packing means and said ram.

1,784,555. MEANS TO PREVENT VALVES FROM STICKING. CALEB E. SUMMERS, Pontiac, Mich., assignor to General Motors Corporation, Detroit, Mich, a Corporation of Delaware. Filed Mar. 31, 1928. Serial No. 266,282. 5 Claims. (Cl. 123—188.)



1. Means to prevent gumming of lubricant on the bearing surfaces of valve parts of an internal combustion engine or the like, including in combination, a valve tappet chamber, a valve stem guide bushing projecting thru a wall of said chamber, and having a transverse opening of a diameter greater than that of the bore of the bushing drilled thru the side thereof and located below said wall to provide a space in direct communication with said tappet chamber, and a valve stem slidable in said bushing.

1,784,556. AUTOMATIC SHEARS. ARTHUR J. TOWNSEND, Canton, and EDWARD S. MILLER, Elyria, Ohio, assignors, by mesne assignments, to The American Rolling Mill Company, Middletown, Ohio, a Corporation of Ohio. Filed Apr. 6, 1927. Serial No. 181,410. 14 Claims. (Cl. 164—49.)



1. Apparatus for shearing strip sheets from a strip continuously fed to the apparatus, including shearing means, arresting means on one side of the shearing means, stop means on the other side of the shearing means, the arresting means and stop means being adapted for bringing the moving strip to rest on both sides of the shearing means during the shearing operation thereof, control means for the arresting means and the shearing means, release means for the stop means, and means associated with the shearing means for actuating the release means.

1,784,557. MOLDED INSULATION ARTICLE. WILLIAM C. TREGONING, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a Corporation of Delaware. Filed July 18, 1929. Serial No. 379,225. 9 Claims. (Cl. 173—362.)

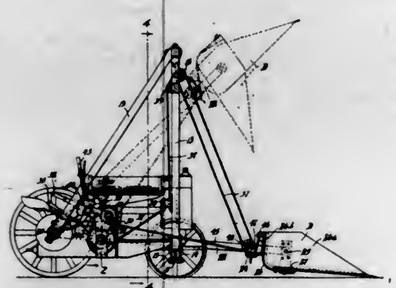
6. In an electric lamp socket casing, in combination, a molded hollow body member of insulating material, said

body member having a plurality of integral radial projections substantially flush with the upper edge thereof and equally spaced from each other, said body member having a non-radial slot extending from the upper edge thereof to provide for flexure of an adjacent portion of said



body member, the walls of said slot coacting to limit the inward flexure of said portion, and an additional radial projection on said portion adjacent to said slot, said last mentioned projection being unequally spaced from said first mentioned projections.

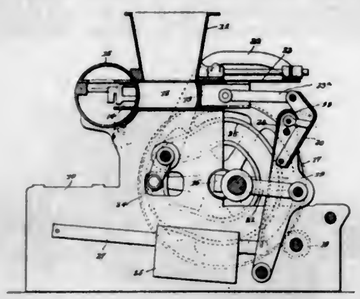
1,784,558. LOADING ATTACHMENT FOR TRACTORS. CORNELIUS UNDERLAND, Elkton, S. Dak. Filed Mar. 17, 1927. Serial No. 176,025. 1 Claim. (Cl. 214—140.)



A loading attachment for tractors comprising a swingable frame pivoted to said tractor on a horizontal axis, means for raising and lowering said frame, a collecting scoop pivoted to the free end of said frame on a horizontal axis extending slightly eccentric and inwardly of the center of gravity of said scoop when said scoop is loaded, a winding drum mounted on said tractor having its axis disposed adjacent the axis of said frame, a flexible member connecting said winding drum with a point disposed eccentrically of the axis of said scoop, a lever carrying a gear segment in mesh with a gear connected with said winding drum whereby said scoop may be swung to loading position and a pawl engageable with means on said drum for retaining said scoop in loaded position and for releasing said scoop to permit the same to dump by gravity when loaded.

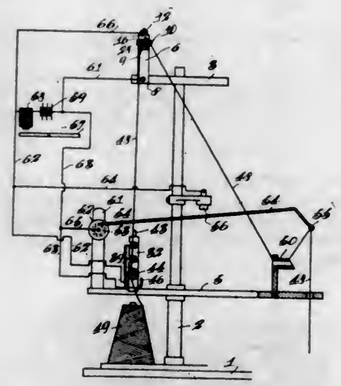
1,784,559. DOUGH-DIVIDING APPARATUS. FRANK H. VAN HOUTEN, Beacon, N. Y., assignor to Dutchess Tool Company, Beacon, N. Y., a Corporation of New York. Filed June 25, 1929. Serial No. 373,566. 6 Claims. (Cl. 107—15.)

1. The method of dividing dough which consists in delivering a quantity of dough from a hopper or reservoir to a compression box, moving a closure partially across the opening between said hopper and box, compressing the dough in said box and simultaneously returning a portion thereof to said hopper, and then fully closing said opening



with said closure and further compressing the dough remaining in said box in the pocket of a dough receiving member.

1,784,560. ELECTRIC STOP MECHANISM FOR KNITTING MACHINES AND THE LIKE. JACOB WACHSMAN, Brooklyn, N. Y. Filed Jan. 15, 1929. Serial No. 332,644. 10 Claims. (Cl. 66—163.)

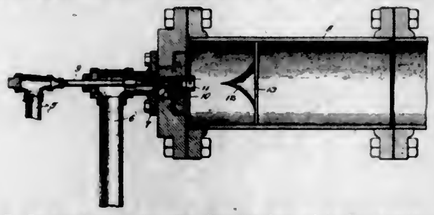


1. In stop mechanism under control of a travelling thread the combination with an electric circuit including an operating magnet and a source of electric energy to actuate the stop device of a machine; a bobbin stand, a primary circuit closer unit mounted on said stand and including circuit closing contacts normally held open by the unbroken thread and including means to close the contacts upon breaking or knotting of the thread, a second circuit closer unit located between said primary unit and the bobbin and adjacent to the bobbin to close the circuit upon breaking of the thread adjacent the bobbin and upon passage of the end of the thread from the bobbin.

1,784,561. DISTILLATION OF HYDROCARBON OILS. GEORGE W. WATTS, PHILIP L. KRAUEL, and THOMAS E. STOCKDALE, Whiting, Ind., assignors to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed Apr. 3, 1925. Serial No. 20,414. 11 Claims. (Cl. 196—85.)

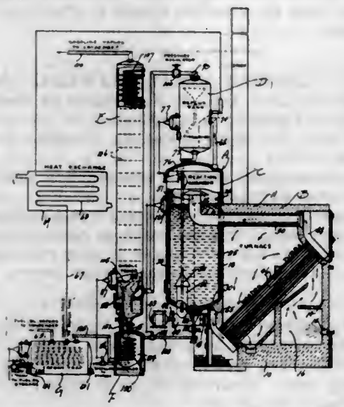
1. The method of distillation of hydrocarbon oils comprising supplying superheated steam to a gradually expanding passage, the temperature of the steam being reduced as it travels therethrough, supplying oil to the at least partially expanded steam where the temperature of the steam is less than 900° F., discharging the steam and oil carried thereby into a conduit at reduced pressure, said conduit being of substantially larger cross section than

the passage, and causing the mass of vapors and oil to pass in steady flow through said conduit without substantial separation of oil and vapor therein.



7. In apparatus for the distillation of hydrocarbon oils, an expanding nozzle provided with a constricted throat, means for passing superheated steam through the throat of said nozzle, and means for supplying oil within the nozzle to the steam after the steam passes the throat of said expanding nozzle.

1,784,562. METHOD AND APPARATUS FOR OIL CRACKING. JOSEPH H. WELCH, Tulsa, Okla. Filed July 6, 1927. Serial No. 203,857. 7 Claims. (Cl. 196—59.)



1. The herein described method of treating hydrocarbons which consist in heating a hydrocarbon at a cracking temperature, withdrawing hydrocarbon from the heating zone in the vapor phase, passing the hydrocarbon in the vapor phase in finely divided condition thru a body of heated liquid hydrocarbon, centrifugally acting upon the vapor to release entrained oil and carbon particles therefrom, passing the hydrocarbon vapor through a heated body of hydrocarbon liquid, fractionating the hydrocarbon vapor to produce a desired hydrocarbon vapor, and condensing said hydrocarbon vapor.

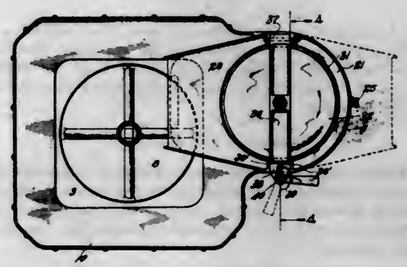
1,784,563. SELF-DEFENSE FIREARM. JOHN H. WESTLUND, Marshalltown, Iowa. Filed Dec. 24, 1928. Serial No. 328,128. 8 Claims. (Cl. 42—1.)



1. A self-defense firearm, comprising a casing adapted to be mounted on the person, a revolver having a barrel projecting outwardly of the casing and also having a trigger arranged in substantially horizontal position, said revolver being carried in inverted position in the casing with the trigger uppermost, and a draft member attached to said trigger and extended over the shoulder of the wearer, whereby a raising of the shoulder will lift said trigger for cocking and firing the revolver.

8. In a firearm having a revolving cylinder for holding a plurality of cartridges, and a removable pin on which said cylinder is mounted, a safety means comprising a sheet of substantially non-inflammable material mounted on said pin in front of said cylinder, said sheet adapted to be punctured by a bullet when the firearm is discharged and to prevent the spread of flame from such discharge.

1,784,564. LAUNDRY MACHINE. ALPHEUS W. ALTORFER, Peoria, Ill., assignor to Altorfer Bros. Company, East Peoria, Ill., a Corporation of Illinois. Filed Mar. 25, 1927. Serial No. 178,182. 18 Claims. (Cl. 210—75.)



1. In combination, a centrifugal extractor, a driving element comprising a short upstanding grooved operating shaft, and a substantially shallow connecting member disposed exteriorly on the lower end of said extractor and having an axially disposed splined opening for slidably and detachably connecting said member and element in operative relation.

1,784,565. BOUQUET PIN. LAURITZ W. ANDERSEN, Waterbury, Conn. Filed Apr. 26, 1929. Serial No. 358,186. 14 Claims. (Cl. 24—6.)

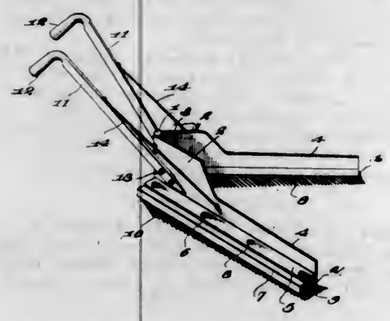


1. A bouquet pin comprising a bar member, a U-shaped clip secured at its center to the rear face of said bar, the outer ends of the arms of the clip being bent outwardly and toward the bar, to provide a stem receiving mouth on the clip and to present a smooth surface to the material on which the pin may be secured, and means at the rear face of the bar for securing it to a garment.

1,784,566. PROCESS FOR TREATING COTTON AND OTHER VEGETABLE PULPS OR FIBERS OF A POROUS ABSORBING NATURE. CLARENCE W. ANDREWS, Burlington, N. C. Filed Oct. 5, 1929. Serial No. 397,756. 10 Claims. (Cl. 92—13.)

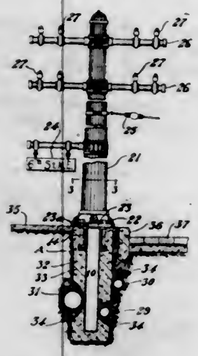
1. A method of treating vegetable matter to remove tobacco oils from smoke, comprising steaming the vegetable matter, subjecting the vegetable matter to immersion in hot caustic soda solution and thereafter boiling the mass in water, then drying the cotton and thereafter treating the vegetable matter successively with boric acid and milk of magnesia.

1,784,567. SWEEPER. JOSEPH LAFAYTTE AULTMAN, Gadsden, Ala. Filed Sept. 8, 1928. Serial No. 304,698. 4 Claims. (Cl. 15—160.)



1. A sweeper of the character described including two sections, means for connecting the sections, and brush heads connected to and carried by each of the sections, each of the brush heads having forwardly and inwardly directed bristles.

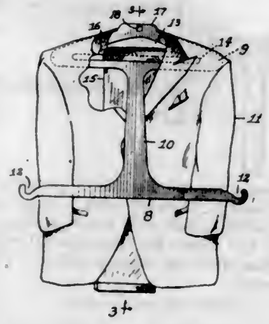
1,784,568. ANCHORAGE FOR POLES. LAWRENCE D. BALE, Cleveland, Ohio, assignor to Union Metal Manufacturing Company, Canton, Ohio, a Corporation of Ohio. Filed Apr. 26, 1929. Serial No. 358,279. 4 Claims. (Cl. 189—29.)



4. An anchorage for a pole and the like including a longitudinally extending anchoring stub, channel members attached to the upper end of said stub, and strut members located substantially parallel with the longitudinal axis of the stub extending between and engaging both flanges of said channel members providing means for connection with pole attaching means.

1,784,569. GARMENT HANGER. JOHN H. BARTLETT, Jr., Oshkosh, Wis., assignor to The Oshkosh Trunk Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Jan. 17, 1930. Serial No. 421,366. 4 Claims. (Cl. 223—61.)

1. A garment hanger having all portions in the same plane and comprising, a cross-bar at one end, a shoulder portion at the other end, and a mid-section rigidly connecting the cross-bar to the shoulder portion, said mid-section being relatively narrow, so that a garment hung on the shoulder portion may have its depending portions all on the same side of the cross-bar, said shoulder portion having a pair of substantially parallel slots therein extending cross-wise of the hanger to permit another garment when folded transversely on itself to engage the shoulder portion between the slots and lie on the same side of the cross-bar as the depending portions of the first garment, said hanger having a length less than the



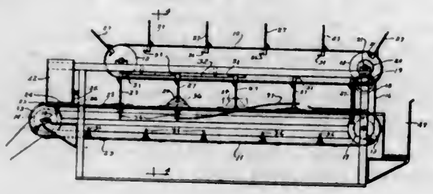
full length of the depending portions of the garments thereon, so that the latter will automatically fold over the cross-bar when inverting the hanger to bring the cross-bar uppermost.

1,784,570. COATING METAL ARTICLES. FREDERICK M. BECKET, New York, N. Y., assignor to Electro Metallurgical Company, a Corporation of West Virginia. Filed Oct. 29, 1928. Serial No. 315,931. 8 Claims. (Cl. 91—70.1.)

1. A cementation mixture comprising a silicofluoride and a corrosion-resisting metal.

8. The process of forming a coating on a ferrous article which comprises heating the article in contact with a mixture containing a silicofluoride and an alloy containing iron, chromium and silicon until cementation occurs.

1,784,571. MACHINE FOR REFOLDING PAPER TRAYS OR THE LIKE. SAMUEL BERGSTEIN, Middletown, Ohio, assignor to The Interstate Folding Box Company, Middletown, Ohio. Filed Dec. 31, 1929. Serial No. 417,695. 9 Claims. (Cl. 93—53.)



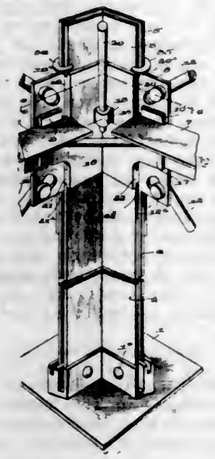
1. A machine for refolding knocked-down paper containers including means for partially opening the containers and means for effecting inverse folds of portions thereof as they are moved progressively on said machine.

2. A method of packaging consisting in opening knocked-down paper containers and moving them progressively, in moving the contents into the containers, and in wrapping the containers and contents into a package in like progressive order.

1,784,572. DERRICK. JAMES W. BROWN, Tulsa, Okla. Filed Oct. 31, 1927. Serial No. 230,026. 3 Claims. (Cl. 189—19.)

1. In a derrick, leg sections and girts having an interlocked connecting member, comprising inner and outer clamping parts, recesses at predetermined points in said leg sections and girts, lugs on the adjacent faces of said

clamping parts adapted to engage and interlock with said recesses, and means for securing said clamping parts together in said interlocked relation.



3. In a derrick, a plurality of abutting angle-leg sections, vertical slots in the adjacent horizontal edges of each of said sections, and a common connecting member comprising a central angular portion, each end of which projects outwardly in a flange, a wing on the end of each flange lying parallel to the respective arm of said angular portion, the adjacent vertical slots in said sections being adapted to engage said flanges with said angular portion lying against the inner surface of the leg section and the wings lying against the outer surface.

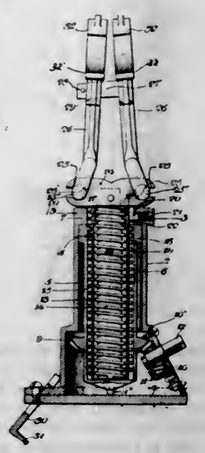
1,784,573. GREASE CUP. CLYDE G. BUTLER and FRANK C. WOELFER, Jr., Cincinnati, Ohio, assignors to The Cincinnati Ball Crank Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Dec. 27, 1927. Serial No. 242,802. 1 Claim. (Cl. 184—5.)



A device of the class described, comprising, a grease cup having an outlet extending from its lower end, a hollow thin wall piston in said cup, a spring urging said piston downwardly to force the grease through the outlet, said piston having a spherical head and a skirted body portion in sliding engagement with the wall of the grease cup, said piston having an internal shoulder formed in its spherical head for engagement by the spring, and means for maintaining the spring under compression against the piston.

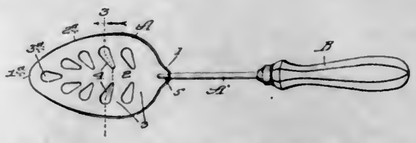
1,784,574. JACK. JOHN M. CANTWELL, Tarrytown, N. Y. Filed June 18, 1926. Serial No. 116,780. 16 Claims. (Cl. 254—102.)

1. In a screw lifting jack, the combination of a supporting casing, a pair of telescopic lifting screws within said casing, the outer telescopic screw having slabbed portions at its top and bottom communicating with a longitudinal key way, and a spring pressed plunger carried at the upper end of the casing and cooperating at different times with said slabbed portions and key way, and



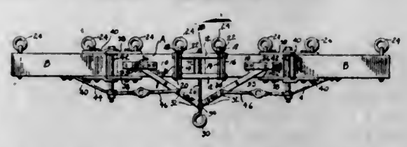
means for lifting one of said screws without rotating it and for then rotating it thereby to lift the other screw and including a rotatable tubular sleeve also housed entirely within and extending substantially from end to end of said casing, and gear mechanism connected adjacent to the lower end of said sleeve for rotating said sleeve.

1,784,575. BEATER SPOON. GUSTAV A. CARLSON, Chicago, Ill., assignor to The Boye Needle Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 2, 1929. Serial No. 396,756. 1 Claim. (Cl. 259—144.)



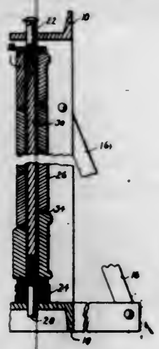
A beater-spoon comprising a handle-equipped single bowl-member having a flat bottom and an upcurved marginal rim-portion extending completely around the bowl-member, said bowl-member having slots therein formed partially in the flat bottom and partially in the upcurved rim-portion.

1,784,576. FLEXIBLE HINGED DRAWBAR FOR HARROWS. NELS CHRISTIANSEN and CHRIS MORTENSEN, Ringsted, Iowa. Filed Aug. 26, 1929. Serial No. 388,431. 6 Claims. (Cl. 55—84.)



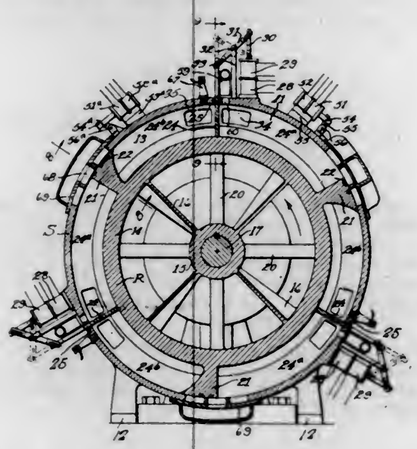
1. In a hinged draw bar for harrows, a main bar, and a pair of wing bars, said wing bars and main bar being provided with upwardly curved plate extensions forming hinge members at adjacent ends, pin means for pivotally connecting said hinge members at their ends, said pins having forwardly extending ends from the hinge members, and a draft hitch device having a turn-buckle connection with said forwardly extending pins.

1,784,577. DISPLAY RACK FOR ORNAMENTAL TILES. ALLEN B. COLEMAN, Des Moines, Iowa. Filed Aug. 19, 1929. Serial No. 387,014. 3 Claims. (Cl. 211—169.)



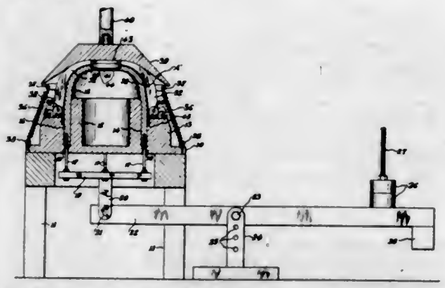
3. In a display rack for tile and the like, a vertically disposed rectangular supporting frame, a display frame adapted to carry removable tile displays, a pivot member projecting from one horizontal member of said display frame loosely through the corresponding member of the supporting frame, and a threaded pivot member adapted to be extended loosely through the opposite horizontal member of the supporting frame and to be removably seated in the corresponding horizontal member of the display frame, for removably pivotally mounting the display frame in the supporting frame.

1,784,578. ROTARY ENGINE. RALPH E. CORNWELL, Pasadena, Calif. Filed Jan. 4, 1928. Serial No. 244,496. 1 Claim. (Cl. 123—14.)



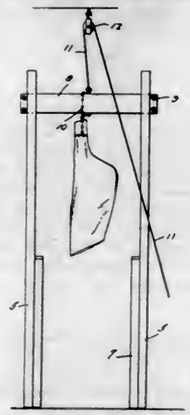
A rotary engine comprising a stator, a rotor in the stator co-operating therewith to provide an annular passage between the two and having a piston disposed in said passage, a second abutment in the stator mounted for movement to occupy one position in which it clears said passage to permit the passage of the piston, and another position in which it spans the passage so as to co-operate with the piston during rotation of the rotor to form a compression chamber in the passage in advance of the piston, said stator having an intake port through which fuel is adapted to be admitted to the compression chamber for compression by the piston when approaching the stator abutment, the stator having a by-pass chamber provided with ports, one of which communicates with the compression chamber and constitutes an inlet to permit the passage of compressed fuel from the compression chamber into the by-pass chamber, and the other of which communicates with the combustion chamber and consitutes an outlet to permit the discharge of fuel into the combustion chamber from the by-pass chamber, valves for controlling said ports, electro-magnetic means for actuating said stator abutment and valves in a predetermined sequence in timed relation to the movement of the rotor, and means for igniting fuel discharged from the by-pass chamber into the combustion chamber behind the piston to exert a power impulse against the latter and thereby effect rotation of the rotor, said actuating means for the inlet and outlet valves comprising a pair of rings mounted for rotation, and to one of which the inlet valves are fixed while to the other of which the outlet valves are fixed, and electro-magnetic means for oscillating the rings in one direction or the other to accordingly open or close the respective valves, the electromagnetic means for opening and closing each valve comprising solenoids, arranged in end-to-end relation to each other and having a core in common.

1,784,579. FORMING DIE. ROWLAND JOHN CURTIS, Dover, Ohio, assignor to The Reeves Manufacturing Company, Dover, Ohio, a Corporation of Ohio. Filed Oct. 10, 1928. Serial No. 311,617. 19 Claims. (Cl. 153—75.)



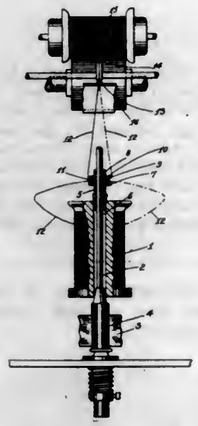
1. Forming apparatus including a longitudinally movable central die, curved fingers movably mounted adjacent to the die, means for moving the fingers toward the die, and means for simultaneously longitudinally moving the die relative to the fingers, to form a sheet metal article upon the die.

1,784,580. MEANS FOR TENDERING MEATS. PERCY J. DEACON, Lakeworth, Fla. Filed Feb. 2, 1928. Serial No. 251,398. 1 Claim. (Cl. 17—25.)



In an apparatus of the class described, a pair of vertical spaced standards, each standard including a pair of spaced bars, stop forming members extending upwardly from the lower ends of the standards at the space between the bars of each standard, the upper ends of said stop forming members terminating at the intermediate portion of said standard to form stops, a cross bar arranged for vertical sliding movement between the spaced standards, the ends of the cross bar being disposed between the spaced bars of each standard, said cross bar being of a length greater than the distance between the outer sides of the standards, horizontally disposed rollers extending laterally from the opposite sides of the projecting ends of the cross bars for engagement with the outer sides of the bars of the respective standards, means for suspending a cut of meat from the intermediate portion of the cross bar, elevating means for the cross bar, said cross bar being adapted to strike the upper ends of the stop forming members when the elevating means is released to limit the downward sliding movement of the cross bar and impart a sudden jerk to the meat suspended from said cross bar for the purpose described.

1,784,581. MANUFACTURE OF YARNS OR THREADS, AND APPARATUS THEREFOR. WILLIAM ALEXANDER DICKIE, THOMAS HEWITT PLATTS, and LEONARD LATHAM, Spondon, near Derby, England, assignors to Celanese Corporation of America, a Corporation of Delaware. Filed Oct. 22, 1927, Serial No. 228,047, and in Great Britain Sept. 28, 1927. 10 Claims. (Cl. 117—26.)



1. Process of twisting yarn by winding the yarn from a rotating yarn package at a linear speed lower than the peripheral speed of the yarn package, said process comprising causing the yarn to follow a path lying in a surface composed firstly of a balloon-shaped surface extending from the yarn package to a circle above the package and concentric with the axis of the package, secondly, a surface extending between the said circle and a second circle of larger diameter concentric with the axis of the package, and thirdly, a surface extending between the second circle and a point above and supstantially in alignment with the axis of the yarn package, the yarn being sharply diverted on the first part of its path to the second part and from the second part to the third part, whereby the constraint imposed on the yarn to cause it to pass from the first part of its path to the second part, and from the second part to the third part prevents the twist imparted to the yarn from running back to the yarn package.

3. Apparatus for twisting yarn, comprising a spindle forming a support for a yarn package, means for rotating the spindle, a winding device, means for rotating the winding device at a lower peripheral speed than the yarn package, a light floating member surrounding the said spindle above the yarn package, an annular shoulder carried by the spindle above the said floating member, the floating member and the annular shoulder presenting bearing surfaces that sharply divert the yarn on its passage from the yarn package to the winding device, and a yarn guide above and substantially in alignment with the yarn package spindle.

1,784,582. FLEXIBLE STRUCTURE. FRIEDRICH DÖPPENSCHMITT, Pforzheim, Germany. Filed Jan. 31, 1928, Serial No. 250,756, and in Germany Apr. 19, 1927. 3 Claims. (Cl. 63—3.)

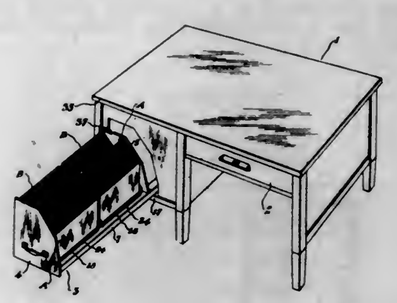


2. In a flexible structure of the character set forth, in combination, a flexible supporting member, a plurality of relatively narrow cross members endwise hooked over said supporting member in close formation, and stiffening means interposed between said supporting member and said cross members.

1,784,583. PROCESS OF MAKING ACETIC ACID. HENRY DREYFUS, London, England. Filed Oct. 22, 1926, Serial No. 143,516, and in Great Britain Nov. 7, 1925. 9 Claims. (Cl. 260—116.)

2. A process for the manufacture of acetic acid, which comprises heating methyl alcohol together with carbon monoxide under substantially atmospheric pressure in the presence of a catalyst comprising a metal capable of forming an acetate which decomposes with the formation of acetic acid at a temperature under 450° C.

1,784,584. FILING APPLIANCE. WILLIAM E. DUNNING, Alliance, Ohio, assignor to The McCaskey Register Company, Alliance, Ohio, a Corporation of Ohio. Filed Aug. 20, 1928. Serial No. 300,768. 10 Claims. (Cl. 45—2.)

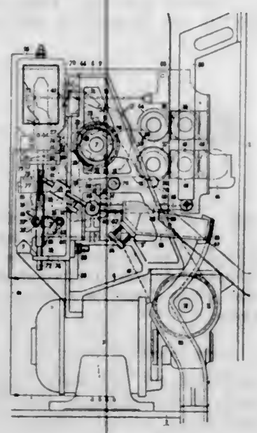


1. The combination with a drawer and the like, of a filing appliance including a frame pivotally mounted in the drawer, a plurality of holders extending longitudinally of the drawer having pivotal mountings in the frame extending longitudinally of the drawer for swinging transversely of the drawer, and means for normally holding the holders in upright echelon arrangement.

1,784,585. COIN-CONTROLLED SALES APPARATUS. FRITZ ELLER, Berlin-Wannsee, Germany. Filed Dec. 15, 1927. Serial No. 240,292. 6 Claims. (Cl. 174—10.)

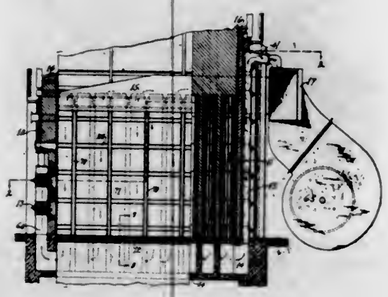
3. A system for printing tickets, comprising a printing apparatus, driving means therefor, means for coupling

said printing apparatus and driving means, means operative at the end of a printing operation for setting said coupling means into non-coupling position, an electromagnet and its armature, a member tending to lock said coupling means in non-coupling position, a device adapted when energizing said electro-magnet and operating its armature



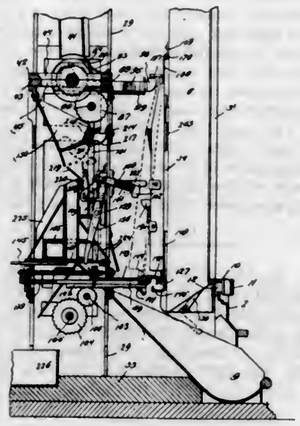
to throw said locking member out of locking engagement with said coupling means and to release said locking member upon continued movement of said armature, said device being mounted for yielding upon return movement of the armature, and coin controlled means for energizing said electromagnet.

1,784,586. FURNACE. FREDERICK P. FAIRCHILD, White Plains, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Feb. 5, 1926. Serial No. 86,273. 16 Claims. (Cl. 110—72.)



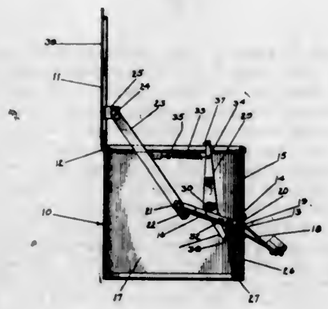
1. In a furnace, a wall having a plurality of vertically disposed air ducts therein, each duct comprising a plurality of sections set end to end with the top thereof free to move upwards relatively to the wall, the top section having an opening and the lower section having an opening leading to the combustion space of the furnace, and means forming an air-tight joint between each two sections.

1,784,587. COIN-CONTROLLED VENDING MACHINE. JOHN H. FARRAR, Memphis, Tenn., assignor to Stephen J. Graham, Tuckerman, Ark. Filed Dec. 1, 1927. Serial No. 237,045. 34 Claims. (Cl. 194—85.)



16. A vending machine comprising in combination, a holder for the material to be dispensed, dispensing means associated with the holder, a master coin controlled unit, a supplemental unit, carried by the holder cooperating means betwen the units to effect the actuation of the dispensing means, and additional mechanism controlled by the supplemental unit for automatically returning change when a coin of a higher denomination than the price of the material purchased is inserted in the machine.

1,784,588. MOP HOLDER. AZARIA M. GREEN, Minneapolis, Minn. Filed June 17, 1929. Serial No. 371,437. 4 Claims. (Cl. 206—1.)



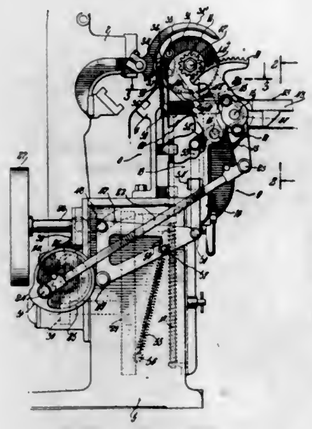
1. A mop holder comprising a casing adapted to receive the head of a mop, a hinged cover upon said casing and having an opening to allow passage of the handle of said mop, fastening means for retaining the cover in closed position upon the casing, and devices for releasing the cover from said casing and for moving said cover to open position.

1,784,589. WORK-HOLDING IMPLEMENT. HARRY GREENBERG, Dover, N. J. Filed May 11, 1929. Serial No. 362,438. 1 Claim. (Cl. 113—99.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)



A work holding implement including a handle, a blade secured to the handle and formed in a series of steps, the outer steps adapted to position socket members, and a coupling securable to the largest step and having an internal flange spaced from the adjacent step.

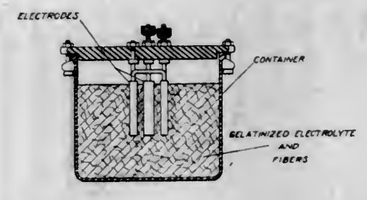
1,784,590. DELIVERY MECHANISM FOR SIGNATURE-STITCHING MACHINES. FREDERICK J. GREENE, Racine, Wis., assignor to The Christensen Machine Company, Racine, Wis., a Corporation of Wisconsin. Filed Oct. 11, 1928. Serial No. 311,813. 6 Claims. (Cl. 270—37.)



1. In a signature stitching machine or the like, a delivery mechanism including an end supporting member, a saddle along which signatures are conveyed to the delivery mechanism, and means for guiding the signatures past the end supporting member to permit them to extend therebeyond prior to being discharged from the machine by the delivery mechanism.

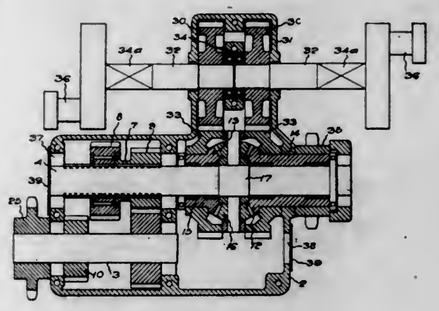
1,784,591. [WITHDRAWN.]

1,784,592. DRY BATTERY ELECTROLYTE REENFORCING MEANS. GEORGE W. HEISE and ERWIN A. SCHUMACHER, Lakewood, Ohio, assignors to National Carbon Co., Inc., a Corporation of New York. Filed May 28, 1928. Serial No. 281,287. 2 Claims. (Cl 136—116.)



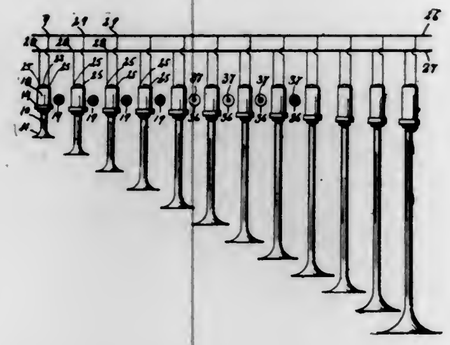
1. In a cell, a zinc anode, a copper cathode, a copper oxide depolarizer cooperating with the cathode, a caustic alkali electrolyte incorporated in a gel cooperating with the anode and cathode, and cellulosic reenforcing fibers dispersed in the body of the gel.

1,784,593. GEAR TRANSMISSION. FREDERIC W. HILD, Los Angeles, Calif. Filed Aug. 13, 1925. Serial No. 49,901. 7 Claims. (Cl. 74—57.)



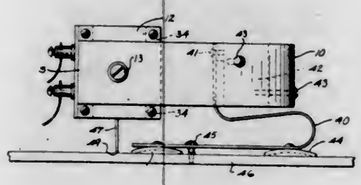
5. In a transmission mechanism, a differential device comprising three elements, two driving members connected to the first and second elements, respectively, of the differential device, and two driven members connected to the second and third elements, respectively, of the differential device, whereby the ratio of the torque exerted on the two driven members is proportional to the ratio of the power supplied by the two driving members, and a variable-speed gear set for regulating the proportion of the ratio of the torque exerted on the two driven members to the ratio of the power supplied by the two driving members.

1,784,594. LOUD-SPEAKER. MILLER REESE HUTCHISON, Llewellyn Park, West Orange, N. J., assignor, by mesne assignments, to Acoustic Products Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 9, 1926. Serial No. 87,073. 6 Claims. (Cl. 181—27.)



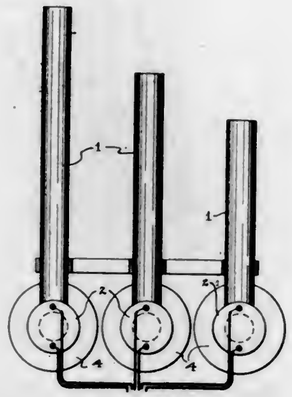
1. Acoustic apparatus comprising a plurality of individual units, each unit comprising a sound chamber containing fluid, tuned to a different note and an energy transfer device acoustically connected to each of said chambers, and means for connecting said devices directly to a common channel carrying a complex wave made up of a plurality of said notes.

1,784,595. ACOUSTIC DEVICE. MILLER REESE HUTCHISON, Llewellyn Park, West Orange, N. J., assignor, by mesne assignments, to Acoustic Products Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 18, 1927. Serial No. 169,185. 3 Claims. (Cl. 179—114.)



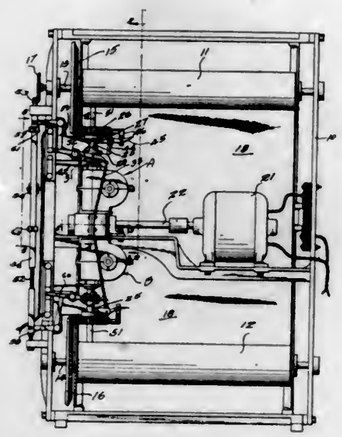
1. A device for vibrating an object including, in combination, a vibrating element and electrical means for vibrating the same in response to electrical waves of sound frequency, said vibrating element being adapted to vibrate about a mean position, an arm attached to said vibrating element, resilient means for holding said vibrating element displaced from its mean position to cause the projection of said arm, a support for all of said devices adapted to rest upon the surface to be vibrated, said projecting arm being adapted to project beyond said surface by an amount equal to the displacement of said vibrating element from its mean position.

1,784,596. CLOSED-END RESONATING HORN. MILLER REESE HUTCHISON, Llewellyn Park, West Orange, N. J., assignor, by mesne assignments, to Acoustic Products Company, New York, N. Y., a Corporation of Delaware. Filed May 24, 1927. Serial No. 193,812. 4 Claims. (Cl. 181—27.)



1. In an acoustic device, a tube closed at one end and having an opening at the other end, said opening having a flaring horn applied in communication therewith, and means in said tube adjacent said opening for general sound waves.

1,784,597. DISPLAY DEVICE. ARVID W. JOHNSON, Los Angeles, Calif. Filed Dec. 1, 1927. Serial No. 236,965. 13 Claims. (Cl. 40—31.)



1. A display machine comprising a web divided into panels having display matter thereon, rolls between which said web travels, it being wound upon one roll and unwound from the other; a transmission mechanism including three aligned clutch elements normally out of clutching engagement, gearing connecting the first clutch element and a roll, a shaft, a prime mover for said shaft, the intermediate clutch element being connected to rotate with said shaft and being longitudinally movable on said shaft, the third clutch element being longitudinally movable to engage said intermediate clutch element and actuate the latter to engage said first clutch element, keeper means to longitudinally move said intermediate clutch element, said keeper means tending to move said intermediate clutch element out of engagement with said first clutch element and into engagement with said third clutch element, a trigger to hold said keeper means in position with said intermediate and first clutch elements in clutch engaging position, means to trip said trigger actuated by said web at the end of travel of a panel, and cam means operated by rotation of said third clutch element to move said third clutch element into engagement with said intermediate clutch element and the latter into engagement with said first clutch element.

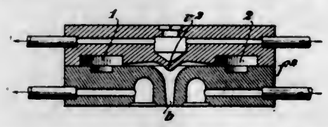
1,784,598. PROCESS FOR THE PRODUCTION OF THYMOL. HANS JORDAN, Berlin-Steglitz,; WALTER SCHOELLER, Berlin-Westend; and REINHARD CLERC, Berlin, Germany, assignors to the Firm: Chemische Fabrik auf Actien vorm. E. Schering, Berlin, Germany. Filed Aug. 15, 1927, Serial No. 213,204, and in Germany Feb. 22, 1927. 3 Claims. (Cl. 260—154.)

1. The process of producing 3-methyl-6-isopropyl phenol comprising heating the product obtained by condensing a crude cresol (being substantially a mixture of m- and p-cresol) and acetone in the presence of an acid condensing agent to effect decomposition thereof, treating the decomposition product with hydrogen in the presence of a hydrogenation catalyst until two atoms hydrogen have entered into combination, and subjecting the resulting mixture of thymol and p-thymol to careful fractional distillation.

1,784,599. METHOD OF PRODUCING PHENOLS. HANS JORDAN, Berlin-Steglitz; WALTER SCHOELLER, Berlin-Westend; and REINHARD CLERC, Berlin, Germany, assignors to the Firm: Chemische Fabrik auf Actien vorm. E. Schering, Berlin, Germany. Filed Aug. 15, 1927, Serial No. 213,206, and in Germany Nov. 16, 1926. 6 Claims. (Cl. 260—154.)

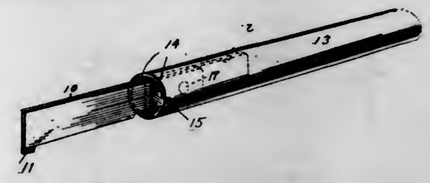
1. The method of producing saturated phenols comprising acting at a temperature between 180° and 320° C. with hydrogen under pressure in the presence of a hydrogenation catalyst on a product obtained by condensation in the presence of an acidic condensing agent of an alkyl phenol and an aliphatic ketone.

1,784,600. CASTING UNDER PRESSURE. SIEGFRIED JUNGHANS, Baden, Germany. Filed July 24, 1928, Serial No. 295,056, and in Germany Dec. 20, 1927. 3 Claims. (Cl. 22—68.)



1. A multi-part pressure casting mold, comprising a pair of mold sections, one section having a charging channel therein and branch channels in the sections terminating at one end into a mold chamber and the other end into the charging channel at right angles thereof; and a distributing member in the other mold section opposite the charging channel and having a depression adjacent thereto in each charging channel forming shock and connecting surfaces for the purpose of reducing the speed, pressure and temperature of the jet of molten metal to prevent injury to the mold chamber.

1,784,601. PUTLOG. THOMAS HAVELOCK KINGSTON, West Somerville, Mass., assignor to Builders' Patent Scaffolding Company, a Partnership composed of Frank G. Kingston, A. R. Kingston, C. C. Pimm, and Mabel G. Kitchen, West Somerville, Mass. Filed Mar. 5, 1929. Serial No 344,504. 3 Claims. (Cl. 304—39.)



1. A putlog comprising a tubular body and a wall-engaging member having a shank that extends into such body said wall-engaging member being flat and thin enough for insertion between adjacent bricks in a wall.

1,784,602. VALVE FOR OIL-WELL PUMPS. CARROLL P. KIRKPATRICK, Fellows, Calif., assignor of one-half to R. M. Smith, Fellows, Calif. Filed Jan. 14, 1928. Serial No. 246,791. 1 Claim. (Cl. 103—225.)

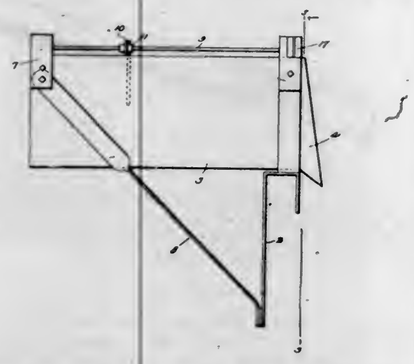


In an oil well plunger valve, a stem having an abutment, a member having an oil conducting bore through which the stem slidably extends, the member being arranged below the abutment and being limited in its upward sliding movement thereby and having an abutment formed adjacent to its lower end and a port in its wall below the abutment for the passage of oil, a cup-shaped member stationary with respect to the stem and slidably receiving said member for controlling the flow of oil through said port, the cup-shaped member being engageable with the abutment of the first mentioned member for limiting the sliding downward movement thereof, and means for adjusting the cup-shaped member on the stem whereby to provide for variation of the area of the port controlled by said cup-shaped member.

1,784,603. FROZEN-CREAM CUTTER. EMMETT DELBERT LAMPHERE, Jr., West Rutland, Vt. Filed Jan. 16, 1929. Serial No. 332,981. 1 Claim. (Cl. 107—21.)

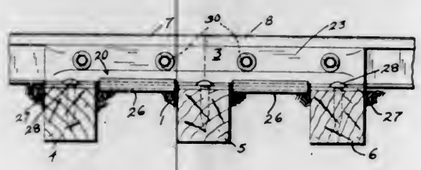
A frozen-cream cutter of the character described comprising a horizontally disposed container of substantially semi-circular cross-section having one end open, a substantially U-shaped bracket rigidly secured to the open end portion of the container and constituting supporting means therefor, a pair of vertically extending blocks, rigidly

mounted on the upper end portion of the bracket and projecting above the container, horizontally disposed shoulders on the blocks, a pair of blocks rigidly mounted on the rear end portion of the container and projecting upwardly thereabove, guide rods disposed in spaced parallelism to the opposite side of the container and having their oppo-



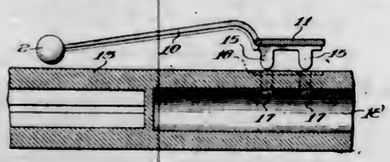
site ends rigidly connected to the first and second named pairs of blocks, a bar extending transversely over the container having its opposite end portion slidably mounted on the rods, a follower rigidly mounted on the bar and depending therefrom into the container and a transversely extending knife pivotally mounted on one of the shouldered blocks for swinging movement into the container.

1,784,604. RAIL JOINT. JOHN A. LARSON, San Jose, Calif. Filed Jan. 27, 1930. Serial No. 423,623. 4 Claims. (Cl. 238—218.)



4. In a rail joint, a base plate arranged to have the bases of the rails rested and supported thereon, side plates associated with said base plate and arranged to be bolted together through and against the rails, portions of one of said plates being bent to hook under the base plate between rail ties adjacent the joint, and members on said last named plate extending outwardly therefrom over the rail bases and base plate and lying upon said rail ties.

1,784,605. CLIP. JOHN P. LYNN, Chicago, Ill., assignor to Dur-O-Lite Pencil Co., Chicago, Ill., a Corporation of Illinois. Filed July 20, 1929. Serial No. 379,659. 20 Claims. (Cl. 24—11.)



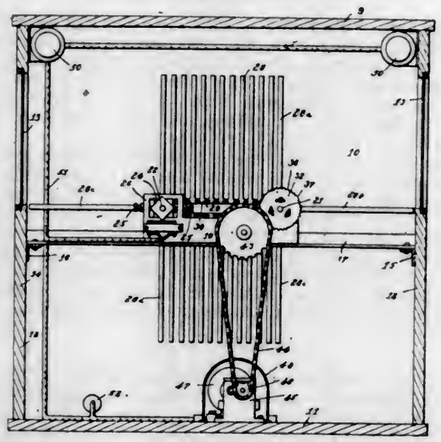
1. In combination, a body and a pocket clip, said clip having projecting lugs and said body having openings into which said lugs enter with a tight drive fit.

1,784,606. RAILWAY TIE. DONALD B. MACNEIR, New York, N. Y. Filed Sept. 28, 1929. Serial No. 395,918. 3 Claims. (Cl. 238—115.)



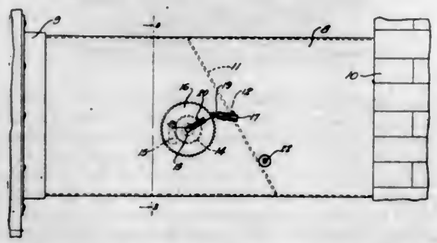
1. In a railway tie construction, a pair of spaced opposed concrete blocks, eyes extending from said concrete blocks and anchored therein, and a tie rod having its ends respectively connected to said eyes.

1,784,607. AUTOMATIC EXHIBITOR. PARLEY E. MCFARLAND, Rockford, Ill., assignor to Jesse L. Wortham, Rockford, Ill. Filed Mar. 27, 1929. Serial No. 350,180. 12 Claims. (Cl. 40—98.)



1. An automatic exhibitor comprising a cabinet having windows at each end, means for supporting the operating mechanism therein, a plurality of parallelly spaced rigid display holders arranged to be moved between concealed storage positions and display positions before said windows, endless chains adapted to fixedly support said display holders in both the storage and display positions said chains being movable to transport the holders from position to position, and automatic means for intermittently driving said chains to move successive holders into the display positions and hold them motionless thereat for a predetermined period of time.

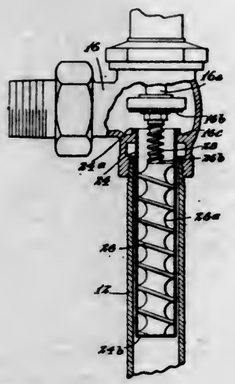
1,784,608. AUTOMATIC PIPE DAMPER. ROY L. MEYERS, Janesville, Wis. Filed Jan. 21, 1929. Serial No. 333,969. 5 Claims. (Cl. 236—93.)



1. The combination with a pipe, of a disc-shaped damper centrally pivotally mounted therein and inclined from

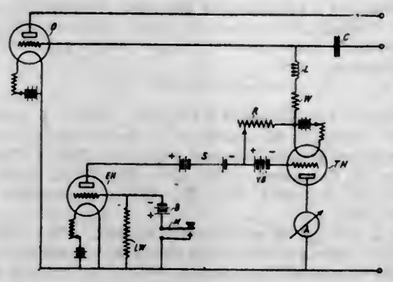
vertical when in closed position, a contractile and expansile thermostatic member within the pipe, and mechanism between the thermostatic member and the damper for transmitting certain movements of the thermostatic member to the damper.

1,784,609. HEATING SYSTEM. ALBERT W. MOULDER, Warren, Ohio, assignor to General Fire Extinguisher Company, Providence, R. I., a Corporation of Delaware. Filed Mar. 25, 1927. Serial No. 178,364. 2 Claims. (Cl. 137—75.)



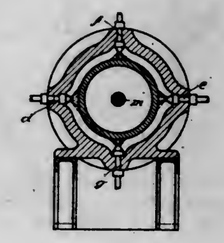
1. Means for controlling the flow through a radiator having a feed pipe and valve comprising a tube adapted to be inserted through said valve into said pipe; and a core within said tube having a helical groove along its surface; the tube and core being organized to constitute the path of flow, thereby to increase the frictional resistance of this part of the pipe.

1,784,610. MODULATING SYSTEM. JOHANNES JACQUES NUMANS, Eindhoven, Netherlands, assignor to Radio Corporation of America, a Corporation of Delaware. Filed May 21, 1927, Serial No. 193,201, and in the Netherlands May 22, 1926. 6 Claims. (Cl. 179—171.)



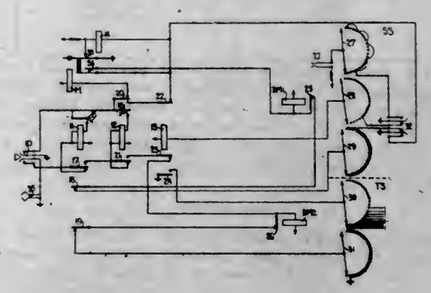
6. In a circuit arrangement for modulating oscillations an oscillation tube, a grid leak for said tube comprising an inductance a fixed resistance and a variable resistance all connected electrically in series, an auxiliary triode, a source of potential connected between the grid and the cathode of said auxiliary triode, a modulating means adapted to vary the internal resistance of said auxiliary triode and means controlled thereby for varying the value of said variable resistance in accordance therewith.

1,784,611. METHOD OF PRODUCING BODIES CONSISTING OF A PLURALITY OF THIN ALTERNATELY CONDUCTING AND INSULATING LAYERS. MICHAEL POLANYI, Berlin-Zehlendorf-Mitte, and STEPHAN VON BOGDANDY, Berlin-Dahlem, Germany. Filed July 6, 1928, Serial No. 290,868, and in Germany July 7, 1927. 8 Claims. (Cl. 175—41.)



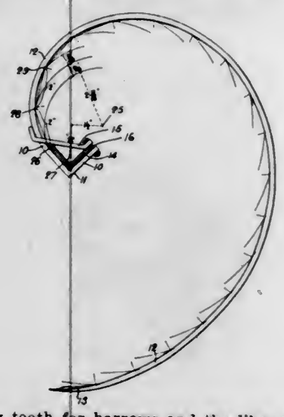
1. The method of manufacturing a body suitable as electric condenser and consisting of a plurality of thin, alternately conducting and insulating layers, which consists in precipitating the substances to be superposed in quick succession upon a common support.

1,784,612. TESTING DEVICE FOR IMPULSE SENDERS. THOMAS PHILIP PREIST, Cheshire, England, assignor to Associated Telephone and Telegraph Company, Kansas City, Mo., a Corporation of Delaware. Filed Nov. 5, 1928, Serial No. 317,231, and in Great Britain Nov. 30, 1927. 8 Claims. (Cl. 179—175.)



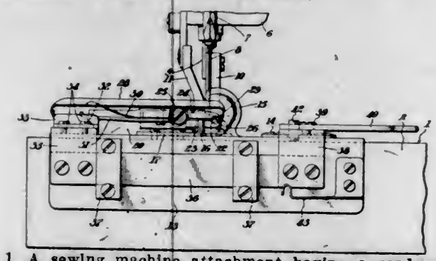
1. In an impulse speed-testing mechanism for telephone systems, an impulse sender to be tested, a standard impulse sender, a separate stepping switch controlled by each of said senders, means for operating both of said senders simultaneously to step their associated switches, means responsive to a predetermined time interval for stopping said switches, and means for measuring the required impulse speed by determining the difference in the positions of said switches.

1,784,613. SPRING TOOTH FOR HARROWS AND THE LIKE. ARTHUR W. REYNOLDS, Leonardsville, N. Y., assignor to The Babcock Manufacturing Company, Leonardsville, N. Y., a Corporation of New York. Filed July 17, 1928. Serial No. 293,361. 28 Claims. (Cl. 55—36.)



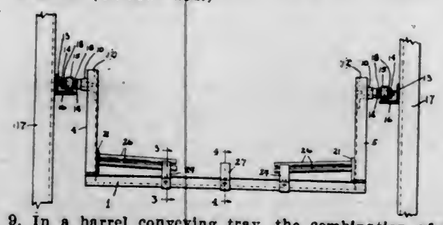
1. A spring tooth for harrows and the like, comprising a heel portion, a point portion, and a resilient body portion extending between the two and conforming in shape to a smooth curve having a regularly increasing radius of curvature.

1,784,614. SEWING-MACHINE ATTACHMENT. RUDOLPH J. SAILER, Townley, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Aug. 13, 1929. Serial No. 385,553. 9 Claims. (Cl. 112—139.)



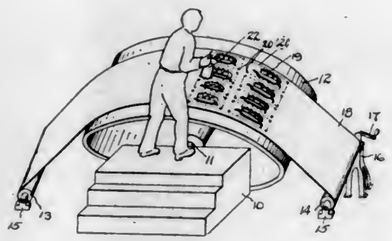
1. A sewing machine attachment having a cord-guide comprising separable jaws in their closed position together defining a cord-receiving aperture, means for holding said jaws in their closed position, manually controlled means for opening said jaws, and an edge-folder disposed to fold the margin of a body material about a cord passed between said jaws.

1,784,615. BARREL-CONVEYING TRAY. KARL F. SNOW, Brecksville, Ohio, assignor to The C. O. Bartlett & Snow Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 11, 1930. Serial No. 427,625. 9 Claims. (Cl. 198—131.)



9. In a barrel conveying tray, the combination of interconnected side and bottom members; stub shafts having rollers mounted thereon, extending laterally from said side members and adapted to engage a conveyor chain; a plurality of longitudinally spaced oppositely inclined barrel supporting bars mounted in said tray adapted to engage the chime rings of such barrel; and means associated with said bottom member, extending laterally therefrom and positioned intermediately said barrel supporting bars for preventing such barrel from rolling from the tray.

1,784,616. STENCILING APPARATUS. EDWARD R. VAN BERGEN, Cleveland, Ohio. Filed Nov. 21, 1928. Serial No. 320,937. 10 Claims. (Cl. 101—121.)



1. In a device of the class described, an element formed with a plurality of stencil apertures, means for moving said element past an operator, and means for securing to the side of said element remote from the operator, a piece of material to be treated.

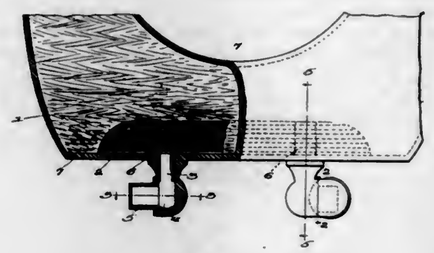
1,784,617. TRISAZO DYES AND PROCESS OF PRODUCING THE SAME. HAROLD E. WOODWARD, Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed May 31, 1928. Serial No. 282,046. 11 Claims. (Cl. 260—72.)

1. The process of preparing a trisazo dye which comprises diazotizing an amino-azo compound prepared from an aromatic amino sulphonic acid and an aromatic amino compound to which coupling can take place in the position para to the amino group, coupling the resulting diazo azo compound to an aromatic amino compound to which coupling can take place in the positin para to the amino group, diazotizing and coupling the resulting diazo disazo compound to a compound of the class consisting of para-amino-benzoyl derivatives of, and para-amino-benzoyl-para-amino-benzoyl derivatives of amino-naphthol sulphonic acids.

1,784,618. YEAST MANUFACTURE. JOHN H. BARRINGTON, Baltimore, Md., assignor, by mesne assignments, to Standard Brands Incorporated, Dover, Del., a Corporation of Delaware. Filed Nov. 16, 1923, Serial No. 675,204. Renewed Apr. 29, 1930. 11 Claims. (Cl. 195—20.)

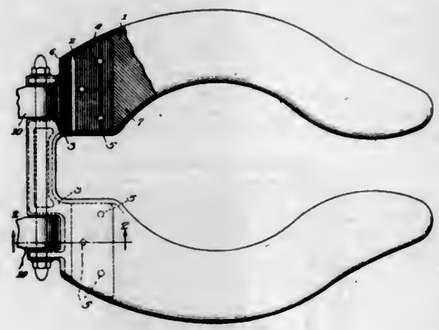
10. A process of manufacturing yeast, which includes using as mash materials both molasses and grain; during the mashing souring at least a portion of the mash materials with lactic-acid-forming bacteria until a substantial excess of lactic acid is obtained; propagating the yeast with aeration in a diluted portion of an extract obtained from the mash materials; adding a yeast-nutrient ammonium salt of an inorganic acid to the propagating liquid during the propagating period in such amounts and at such times as to maintain in the propagating liquid an acidity above that at which infection thereof will occur, but below that which materially inhibits the growth of the yeast, and slowly adding the remainder of the extract from the mash materials.

1,784,619. TOILET SEAT. JOSEPH W. BISHOP, Muskegon Heights, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 13, 1928. Serial No. 269,736. 17 Claims. (Cl. 4—236.)



1. A toilet seat composed of plastic composition, an insert enclosed by said seat and extending transversely thereof, an outwardly projecting hinge member integral with said insert, said plastic composition extending about said insert and outwardly over said hinge member and presenting an unbroken surface at the points of juncture of said hinge member and said seat, and standards supporting said hinge member for pivotal movement.

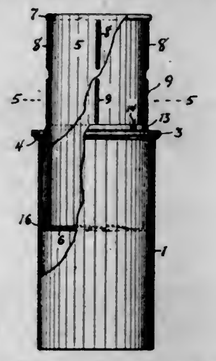
1,784,620. TOILET SEAT. BYRON C. BOOTH, Muskegon Heights, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Nov. 2, 1927. Serial No. 230,537. 17 Claims. (Cl. 4—237.)



1. A toilet seat comprising seat wings having cores, a metallic insert for each of said cores imbedded in said cores and having an irregular surface for preventing withdrawal of said inserts, a hinge element integral with said inserts and a coating of a plastic composition covering said cores and said hinge element and having an uninterrupted surface at the points of juncture of said inserts and said hinge element.

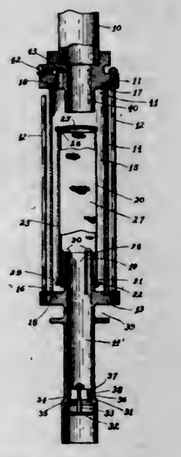
1,784,621. FLOWER HOLDER. CHARLES AUGUSTUS BOYER, Winona Lake, Ind. Filed July 22, 1929. Serial No. 379,949. 6 Claims. (Cl. 47—41.)

3. A flower holder consisting of a shell, and a cylindrical cup having a closed bottom with an outwardly extending perimeter, the open end of the cup having an external bead, and the cylindrical wall of the cup having longitudinally extending ribs spaced from its closed end, said cup having thereon a loose collar provided with recesses in its inner wall and adapted to be seated in the top of the shell and



close the top thereof about said cup, and supporting said cup in elevated position by engaging said projections when the ribs are out of alinement with said recesses.

1,784,622. GASOLINE FILTER. MARTIN E. E. DARDANI, Fairfield, Conn., assignor, by mesne assignments, to The New England Filter Corporation, Fairfield, Conn., a Corporation of Connecticut. Filed June 21, 1924. Serial No. 721,416. 2 Claims. (Cl. 210—165.)

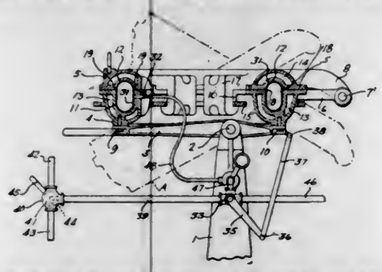


1. A device of the character described, comprising an enclosed chamber; a filter device located in the chamber; a pocket in the chamber located between the bottom of the chamber and the bottom of the filter device; an outlet for the chamber having an orifice located in elevated relation with respect to the lower end of said filter device; and a siphon having a receiving-end between the filter device and said outlet and having a discharge-end within the outlet and below the level of the filter device.

1,784,623. MOLDING APPARATUS FOR PNEUMATIC TUBES, TIRES, AND THE LIKE. WALTER L. FAIRCHILD, New York, N. Y. Filed Sept. 2, 1925. Serial No. 54,054. 6 Claims. (Cl. 18—38.)

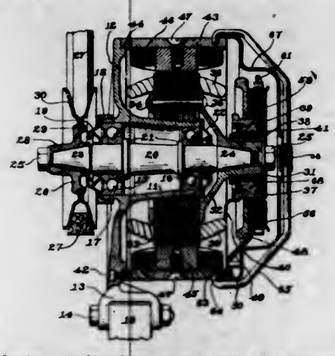
1. In apparatus of the class described, in combination, a mold comprising a pair of mating sections having complementary vulcanizing channels, said mold sections when positioned in mating relation forming a continuous circular vulcanizing chamber adapted to receive a tube to be vulcanized, means for mounting said mold assembly so that it can swing upon a horizontal axis, means for in-

troducing a fluid into the tube within said vulcanizing chamber to expand it within said vulcanizing chamber, means to suck said fluid from said tube when the latter has



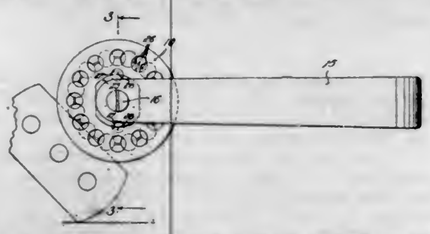
been expanded within the mold, and means for automatically introducing a vulcanizing gas into said tube when the mold assembly is moved upon its horizontal axis.

1,784,624. GENERATOR. HENRY FORD, Dearborn, Mich., assignor to Ford Motor Company, Dearborn, Mich., a Corporation of Delaware. Filed Nov. 26, 1928. Serial No. 321,795. 1 Claim. (Cl. 171—252.)



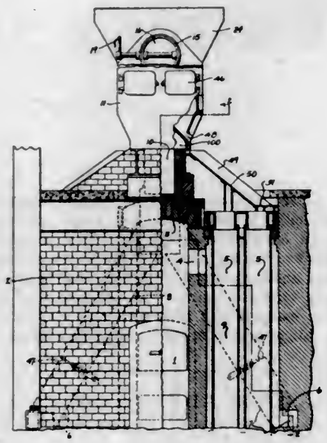
In a device of the character described, a sleeve, an annular flange extending radially from said sleeve near one end thereof, a cylindrical generator shell mounted on the said flange, pole members mounted within said shell, a shaft extended through said sleeve and journalled therein, an armature of bell shape mounted on the rear end of said shaft and extended to position to receive a portion of said sleeve and to co-act with said pole members, a commutator ring mounted on said armature, a brush ring mounted on said shell, a plurality of brush members mounted on said brush ring in position to co-act with said commutator, a quick detachable cover for said shell adapted to receive and enclose said commutator and brush assemblies, and driving means secured to the other end of said shaft.

1,784,625. BLADE EDGER. FRIEDRICK GRAFFENBERGER, Milwaukee, Wis. Filed Sept. 11, 1929. Serial No. 391,857. 8 Claims. (Cl. 76—87.)



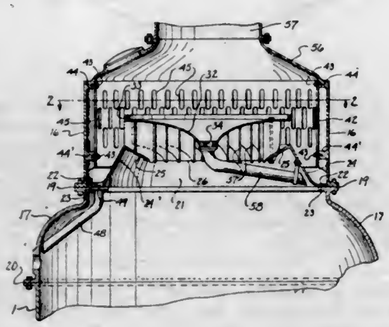
1. A blade edger comprising a pair of co-axial disks rotatable as a unit and cooperating to form an inwardly tapered peripheral gap for receiving the blade to be edged, each disk having a circular series of recesses adjacent said gap, the recesses in each disk being staggered with respect to those in the other disk and in overlapping relation therewith.

1,784,626. BONE-CHAR-DRYING APPARATUS. JAMES HAMILL, East Orange, N. J., and JOHN FREDRICK TADDIKEN, Forest Hills, N. Y. Filed June 25, 1925. Serial No. 39,445. 2 Claims. (Cl. 34—34.)



1. A predrier for a char revivifying apparatus including in combination a chamber, means for feeding char downwardly therethrough, a plurality of spaced apart heating flues adapted to divide the downwardly travelling char into a plurality of thin streams, fins extending from said heating flues to define passages for air currents, and means for passing external air through the chamber in intimate contact with the char for the purpose of removing the evaporated moisture and gaseous impurities.

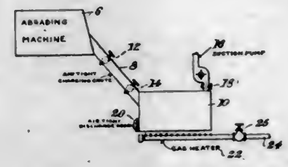
1,784,627. APPARATUS FOR SEPARATING MOISTURE FROM VAPOR. JAMES HAMILL, East Orange, N. J. Filed Mar. 18, 1924. Serial No. 700,173. 9 Claims. (Cl. 183—80.)



1. An apparatus for separating entrained liquid from the vapor generated in an evaporator including in combination a chamber for the passage of the travelling

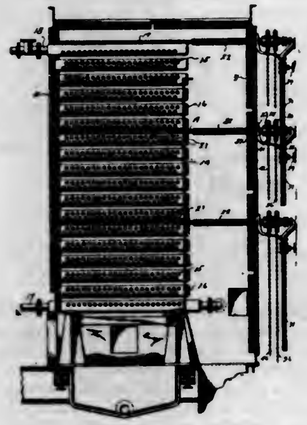
column of vapor and entrained liquid, means for deflecting said column away from its normal direction of flow, means for increasing the velocity of the vapor and entrained liquid and for directing it along a curved path in the chamber, and means along the periphery of said path for collecting the liquid separated from the vapor by the centrifugal action without diverting the vapor from its curved path.

1,784,628. METHOD OF REMOVING OIL FROM THE SHELL OF THE CASHEW NUT. EDWARD R. HUGHES, Morristown, N. J., assignor to The Harvel Corporation, a Corporation of New Jersey. Filed Nov. 29, 1926. Serial No. 151,510. 7 Claims. (Cl. 87—6.)



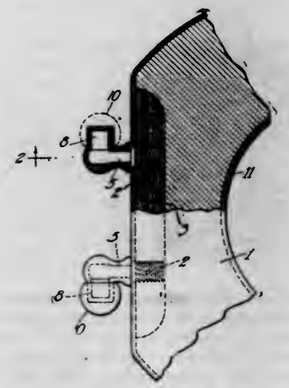
1. The method of removing the liquid from the cellular structure within the shell of the cashew nut which consists in subjecting the nuts to a sudden change from about normal temperature to about the charring temperature to produce an explosive pressure in said cellular structure whereby the liquid therein is forced out from the shell, and cooling the nut and liquid before charring can take place.

1,784,629. HEATING-SURFACE-CLEANING DEVICE. DAVID S. JACOBUS, Jersey City, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Sept. 26, 1923. Serial No. 664,944. 11 Claims. (Cl. 122—392.)



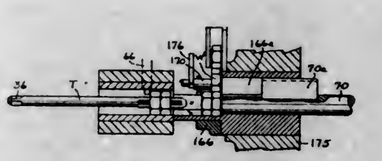
1. In a device for cleaning the surfaces of uniformly spaced tubes exposed to gases, a rotatably mounted tubular element extending across the tubes and having openings to direct jets of cleaning fluid against such tubes, the distance between said openings along said element being a multiple of the distance between two adjacent tubes, means to rotate said element, a member rotatable with said element and arranged to be rotated relatively thereto, means to rotate said member relatively to said element and connections between said element and said member to move said element lengthwise by such relative rotation.

1,784,630. TOILET-SEAT HINGE. GEORGE JOHNSON, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Nov. 19, 1928. Serial No. 320,418. 11 Claims. (Cl. 4—237.)



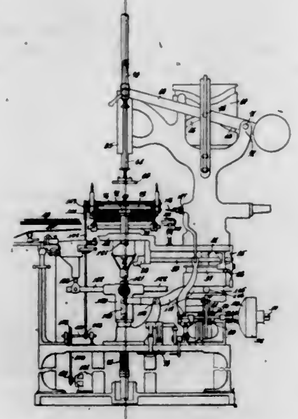
1. The combination of a toilet seat body, an insert embedded in and extending across the rear of said body, a hinge lug having a sliding connection with said insert, said connection permitting lateral movement only of said lug, the material of said body engaging said lug and preventing it from sliding laterally with respect to said insert and means supporting said lug for pivotal movement with said body.

1,784,631. NUT-TAPPING MACHINE. DANIEL KELLEHER, Berea, Ohio, assignor to The Foote-Burt Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 21, 1927. Serial No. 227,677. 14 Claims. (Cl. 10—133.)



1. In a metal cutting machine, a cutting tool, adapted to simultaneously operate upon a plurality of pieces of work, means for holding the work to be operated upon by said tool, actuating means for effecting relative rotation between the work holding means and tool, a mechanism adapted to align and hold a plurality of pieces of work for presentation to the work holding means in offset relation to the work holding means in the direction of the axis of alignment, and means for simultaneously feeding such aligned plurality of pieces of work from said mechanism to the work holding means.

1,784,632. LID-WRAPPING MACHINE. HORACE B. KLEINSMITH, FRANK RODGERS NEELY, and FRED W. DOLL, Allentown, Pa., assignors to A. H. Balliet Corporation, Allentown, Pa., a Corporation of Pennsylvania. Filed June 16, 1927. Serial No. 199,230. 11 Claims. (Cl. 93—54.)



5. In a machine for wrapping lids, a downwardly movable upper plunger and block, a resiliently supported lower plunger and form, a front flap turn-up device, and a transversely movable downwardly pressing front turn-in roller adapted to turn-in the turned up front flap and roll it on to the bottom of the lid.

1,784,633. SHEET-METAL TOY CONSTRUCTION. HERMAN L. KRAEFT, Cleveland, Ohio, assignor to Murray Ohio Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 17, 1929. Serial No. 400,252. 6 Claims. (Cl. 46—48.)



6. In a toy of the class described, a sheet metal shell forming the toy body, a rudder member, said member having a forwardly projecting lug adapted to freely enter an elongated opening in the shell when the rudder member is out of edgewise contact with said shell, said lug having a forward projection in the plane of the rudder, adapted to contact with the interior of the shell adjacent said opening to lock the rudder to the shell, whereby the lug will not require bending over in order to obtain a locking effect when the rudder member is in edgewise contact with the shell, and means associated with the shell and coacting with said lug to keep the rudder member in substantially perpendicular edgewise contact with the shell.

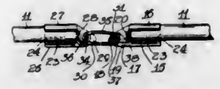
1,784,634. TOY CONSTRUCTION. HERMAN L. KRAEFT, Cleveland, Ohio, assignor to The Murray Ohio Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 19, 1930. Serial No. 429,577. 3 Claims. (Cl. 46—48.)

1. In a toy of the class described, an elongated hollow body having an opening therein, transverse frame members within said body, a cover for said opening having a lip portion adapted to underlie a portion of the body, said



cover adapted to be supported by the frame members and resilient means adapted to retain the cover in position relative to the body.

1,784,635. JEWELRY. JACQUES KREISLER, New Rochelle, N. Y., assignor to Jacques Kreisler & Co., New York, N. Y. Filed Sept. 7, 1929. Serial No. 390,905. 1 Claim. (Cl. 24—232.)



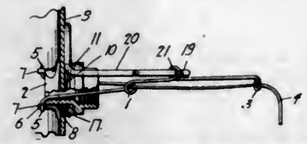
A terminal snap for a wrist watch band comprising separate sections of cord to be separably coupled together, and comprising two sections, each section thereof being provided with a longitudinally fluted upper wall to partly embrace an end of each cord, a clamping jaw mounted in each section for engaging the sections to the cords, the sides of the sections being projected forwardly to provide parallel ears, one section having a projecting tongue disposed between its ears and provided with an eye in the end thereof, the other section having a tongue disposed between its ears and turned upwardly at the end to form a hook to engage the eye from underneath, a pintle pin supported between the ears of the second section, and a pivoted tongue mounted on the pin in the second section and provided with a downwardly turned hook end to spring over the first hook to hold the eye loosely between the two tongues.

1,784,636. VALVE STRUCTURE. OSCAR J. LEINS, Milwaukee, Wis., assignor to Claus Manufacturing Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 23, 1928. Serial No. 256,307. 3 Claims. (Cl. 251—152.)



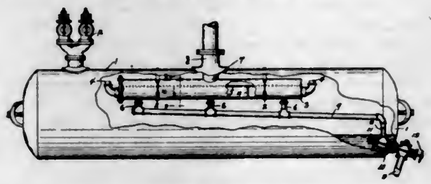
1. In a valve structure including a barrel having a bore with which an inlet and an outlet communicates and a plug rotatable in the barrel bore to control the flow of fluid from the inlet to the outlet, one end portion of the plug being reduced in diameter, a pin inserted through the plug at the inner portion of said reduced end with its ends inwardly of the circumference of the plug inwardly of said reduced end, said pin being located within the barrel bore, a washer member engaging the end of the barrel adjacent the reduced end of the plug, a stop carried by the washer member and extended into the barrel bore to lie within the path of the plug carried stop, and a projection extended from the washer member and engageable in a notch in the adjacent barrel end to prevent rotation of the washer member with respect to the barrel.

1,784,637. PIPE CONNECTION. PETER J. LINDGREN, Denver, Colo., assignor to John W. Horner, Denver, Colo. Filed Apr. 28, 1927. Serial No. 187,390. 7 Claims. (Cl. 285—50.)



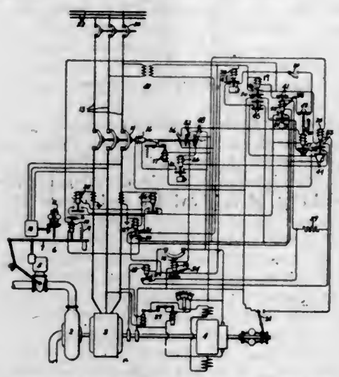
1. In an accessory pipe connection, stationary means having a cylindrical apertured exterior surface, a one piece threaded apertured member completely insertable through the aperture to the interior of said stationary means and adapted to be placed completely within and to bear against the interior surface thereof, an adjusting member having a threaded inwardly projecting portion for engagement with the apertured member and provided with a circular grooved spinning face, and sealing means, including a metallic seal member adapted to fit said spinning face and between said face and said stationary means and formed substantially to the contour of said stationary means on the face adjacent thereto, the adjustment of said engagement being adapted to force the sealing means against the stationary means and to spin a seat upon said seal member in the groove of said spinning face.

1,784,638. DRY PIPE FOR STEAM BOILERS. FRANK J. MARTIN, Weirton, W. Va. Filed Apr. 22, 1929. Serial No. 357,004. 5 Claims. (Cl. 122—491.)



4. In combination with a steam boiler having an outlet, a tank within the boiler having an outlet connected to the boiler outlet and having steam inlets at its ends, a horizonal perforated baffle plate in the tank, a series of outlets for the water of condensation leading from the bottom of the tank, and draining means connected to each of said outlets and extending outward from the boiler.

1,784,639. CONTROL SYSTEM. BARCLAY F. MEADOR, Kansas City, Mo., assignor to General Electric Company, a Corporation of New York. Filed Feb. 7, 1929. Serial No. 338,267. 10 Claims. (Cl. 171—118.)

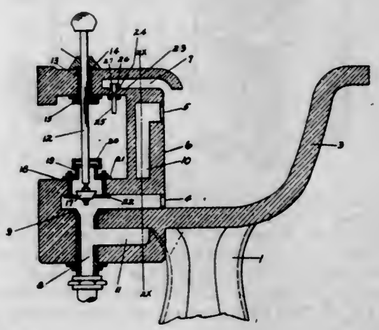


5. In combination, a load circuit, a generator connected to said circuit, a voltage regulator for said generator, automatic switching means for controlling the connection between said generator and load circuit, and means controlled by the voltage and current output of said generator for effecting the operation of said automatic switching means to disconnect said generator from said circuit and to render said automatic switching means inoperative to reconnect said generator to said circuit when a predetermined abnormal voltage occurs due to a failure of said regulator and for effecting only the operation of said automatic switching means to disconnect said generator from said circuit when said predetermined abnormal voltage occurs due to a sudden decrease in load demand on said circuit.

1,784,640. POPPET VALVE. WARREN NOBLE, Detroit, Mich. Filed Sept. 15, 1927. Serial No. 219,814. 6 Claims. (Cl. 123—188.)

1. In a poppet valve for internal combustion engines, a head composed of a binary alloy of silver and a metallic hardening agent wherein the silver predominates to an extent wherein its inherent co-efficient of heat conductivity is characteristic of the alloy, and wherein the hardening agent imparts wear resisting properties to the head.

1,784,641. LAVATORY OR WASHSTAND. WILLIAM H. OLDFIELD, Rochester, N. Y. Filed Apr. 6, 1929. Serial No. 353,112. 2 Claims. (Cl. 4—197.)

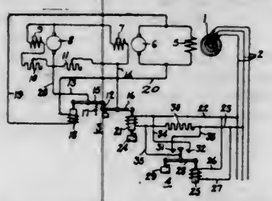


2. A lavatory having a basin, a housing back of the basin, the front of the housing forming the back of the basin and having an upper and lower drain opening therein, the back of the housing having an opening therein with a deck above and a deck below the opening, a vertical drain extending in the lower deck, a valve stem and a stuffing box at the top of the vertical drain in the lower deck, adapted to close it at the top, an opening in the upper deck for the valve stem immediately over the opening in the lower deck, said valve stem being exposed between the two decks and the stuffing box being exposed above the lower deck and the valve stem being exposed above the upper deck, a valve and a valve seat in said vertical drain, a horizontal drain connecting the lower opening of the basin directly with the vertical drain above the valve seat, an offset drain connecting the overflow opening of the basin with the vertical drain in the lower deck below the valve seat.

1,784,642. ELECTRICAL REGULATOR. ROBERT D. PARRY, Northway, England, assignor to General Electric Company, a Corporation of New York. Filed May 11, 1928, Serial No. 277,036, and in Great Britain May 16, 1927. 13 Claims. (Cl. 171—119.)

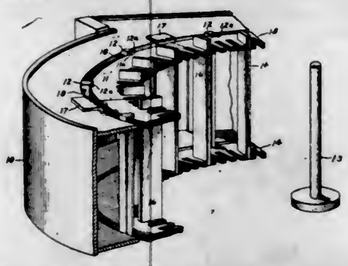
1. In combination, a dynamo-electric machine, an excitation circuit therefor, circuit controlling means in said excitation circuit, a regulator operable in accordance with

variations in an electrical characteristic of said dynamo-electric machine for controlling said circuit controlling means, and means operable in accordance with an electrical characteristic of said dynamo-electric machine for chang-



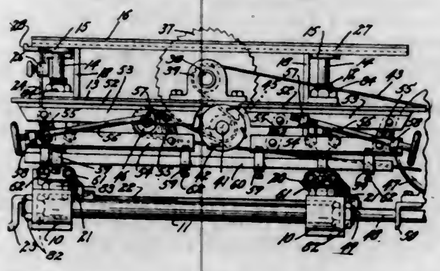
ing the time of response of said regulator when the departure of said electrical characteristic exceeds a predetermined amount above or below a predetermined normal value.

1,784,643. METHOD OF MAKING STATORS FOR DYNAMO-ELECTRIC MACHINES. HENRY G. REIST, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 14, 1928, Serial No. 261,629. Renewed May 3, 1930. 9 Claims. (Cl. 29—155.5.)



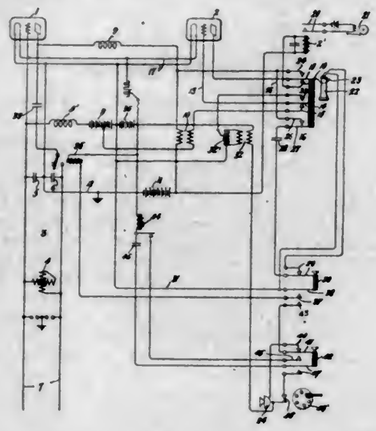
1. The method of attaching a lamination supporting rib to the frame of a dynamo-electric machine, comprising arranging the rib in spaced relation to the frame and in such relation to the axis of the machine that the laminations arranged on the rib will form the desired air gap in the completed machine, tack welding gussets to the frame and to the rib, and then welding the gussets to the frame and to the rib.

1,784,644. WOODWORKING MACHINE. EUGENE TEUTSCH, Denver, Colo. Filed Sept. 24, 1927. Serial No. 221,676. 8 Claims. (Cl. 144—1.)



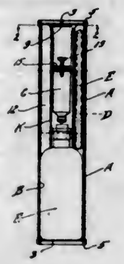
1. Frame construction for saw tables comprising base members; standards arising from said base members and adapted to support a table top; parallel, horizontal base tubes connecting said base members; bars extending into the extremities of said hollow base tubes; cross members slidably mounted on said bars and arranged to carry a motor; and means for moving said cross members along said bars and maintaining them in any desired position thereon.

1,784,645. SIGNALING SYSTEM. WILLIAM A. TOLSON, Rexford, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 22, 1928. Serial No. 287,552. 8 Claims. (Cl. 250—6.)



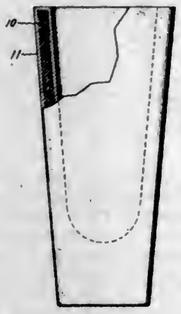
1. In combination, a plurality of electron discharge devices, each of said devices having an anode and a cathode, means connecting said devices in cascade relation, a plurality of signal devices one of said devices being connected in the anode circuit of one of said discharge devices and means for connecting another of said signal devices in the anode circuit of a second of said discharge devices, means for supplying high frequency current received from a remote point to said second discharge device to cause desired actuation of said signal devices, an oscillatory circuit associated with said second discharge device whereby oscillations may be produced and means including said first discharge device for modulating the oscillations produced.

1,784,646. PACKAGE OF DENTAL SUPPLIES. WILLIAM A. WEAVER, Shaker Heights, Ohio. Filed Mar. 8, 1929. Serial No. 345,386. 10 Claims. (Cl. 132—84.)



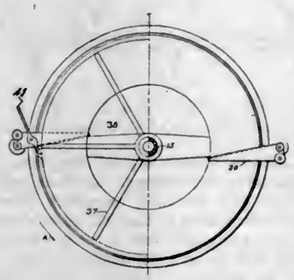
1. A package of dental supplies comprising a substantially tubular container structure having upper and lower closed ends attached thereto, a bottle of liquid arranged within said container structure in abutting relation with the lower end thereof and having a neck extending toward the upper end thereof, a one-piece spacing and supporting tube arranged within said container structure in spaced relation to the side wall thereof and having its upper end portion terminating adjacent the upper closed end of said container structure and having its lower end portion resting on said bottle and telescoping its neck and being held against said bottle and in such telescopic relation by the upper end of said container structure, and a tube of tooth paste arranged in and fitting said spacing and supporting tube between said bottle neck and the upper closed end of said container structure.

1,784,647. METHOD OF MAKING CRUCIBLES. WILLIS R. WHITNEY, Niskayuna, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 3, 1926. Serial No. 146,047. 4 Claims. (Cl. 25—156.)



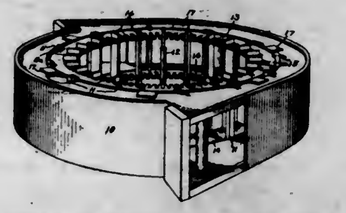
1. The method of making a crucible having an inner heating resistor and an outer heat refractory lining which consists in molding the crucible from a mixture of heat refractory material and powdered resistance heating material, and then burning the resistance heating material out of an outer layer of the heat refractory material so as to leave an inner heating resistor.

1,784,648. AUTOMATIC LAPPING MACHINE. HERBERT J. WILLS, Niagara Falls, N. Y., assignor to The Carborundum Company. Filed Dec. 26, 1928. Serial No. 328,556. 5 Claims. (Cl. 51—156.)



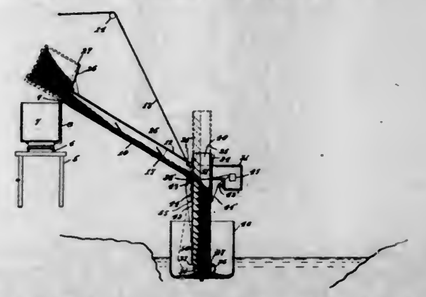
1. An automatic lapping machine for approximately cylindrical parts comprising in combination a lower operating plate with plane upper surface and having a central outlet opening, an upper floating plate with plane lower surface, a lapping bar held in a predetermined position between said lower and upper plates, said lapping bar having a grooved grinding surface whose generating lines are parallel to said plane surfaces of said plates and are inclined to the adjacent radii of said plates, means for rotating said lower plate to revolve approximately cylindrical objects to be lapped against the grinding surface of said lapping bar as well as against the upper plate, the rotation of the lower plate being in such a direction that the frictional forces exerted by the lower plate on the objects to be lapped have components toward the central opening of the lower plate, means for adjusting the height of said upper plate above said lower plate, and means for adjusting the angular position of said lapping bar in a plane parallel to the plane surfaces of the plates which contact with the cylinders, whereby the time of travel of the cylindrical parts from the circumference of the lower plate to the central opening thereof may be varied.

1,784,649. STATOR FOR DYNAMO-ELECTRIC MACHINES AND METHOD OF MAKING THE SAME. ALEXANDER P. WOOD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 14, 1928. Serial No. 261,542. 2 Claims. (Cl. 29—155.5.)



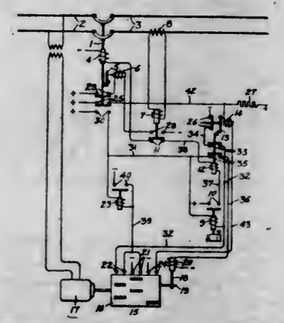
1. The method of making a stator for dynamo-electric machines, comprising providing a frame, arranging lamination supporting bars in spaced relation to said frame, placing laminations on said bars so that the same are in such position that the laminations supported thereon will be at such radial distance from the axis of the stator as to form the desired air gap in the completed machine, and then welding said bars in this position to said frame.

1,784,650. APPARATUS AND METHOD OF TRANSFERRING COKE AND COAL OR THE LIKE. HENRY ADAMS, Plainfield, N. J. Filed Oct. 26, 1927. Serial No. 228,841. 25 Claims. (Cl. 214—45.)



1. A method comprising dividing material to be lowered into separate inclined streams; and gradually lowering and laterally compressing the streams to retard the flow, while maintaining the major part of the upper face of the stream substantially unengaged.

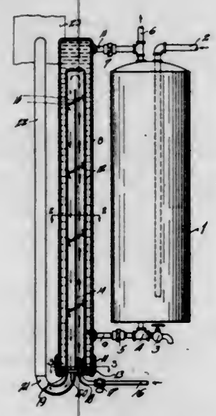
1,784,651. AUTOMATIC RECLOSING-CIRCUIT-BREAKER SYSTEM. ARVID E. ANDERSON, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 7, 1927. Serial No. 204,096. 17 Claims. (Cl. 175—294.)



1. In an automatic reclosing circuit breaker system, a circuit breaker, means for effecting the opening of said

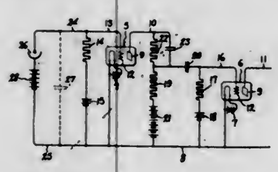
circuit breaker, electroresponsive means arranged when energized to effect the closing of said circuit breaker, means responsive to the opening of said circuit breaker for effecting the completion of an energizing circuit for said electroresponsive means immediately after said circuit breaker is opened, lockout means for effecting the opening of said energizing circuit immediately after each completion thereof, and means for maintaining said lockout means in a position to maintain said energizing circuit open for a predetermined time so as to prevent the immediate reclosure of said circuit breaker in case it is opened by said opening means immediately after its first reclosure.

1,784,652. WATER HEATER. EDWIN L. BADGER, Spokane, Wash., assignor to Doherty Research Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 15, 1926, Serial No. 135,558. Renewed May 31, 1928. 3 Claims. (Cl. 122—156.)



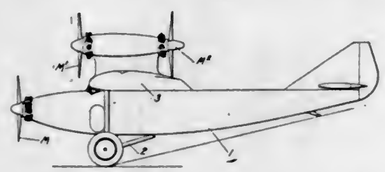
1. A water heater comprising a tank having inlet and outlet connections, an interior flue forming an annular water space, a vertical partition within said flue and baffle plates thereon, an exterior flange on the flue and a screw cap on the tank for said flange, a removable head at the lower end of the tank and flue having an outlet and an outlet pipe connected thereto for gases, and a burner located in an opening in said head and enclosed within the lower end of the flue.

1,784,653. AMFLIFIER. ALDA V. BEDFORD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 20, 1928. Serial No. 320,701. 7 Claims. (Cl. 179—171.)



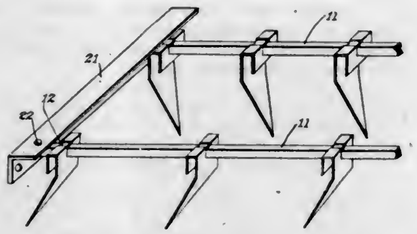
1. The combination of an electric valve provided with input and output circuits, means including a device possessing capacitance arranged to apply a variable voltage to said input circuit, and impedance means connected in said output circuit for neutralizng the effect of variation in the frequency of said input voltage on the current of said output circuit.

1,784,654. AIRCRAFT. ROMULUS BRATU, Paris, France. Filed Nov. 5, 1928, Serial No. 317,443, and in France Nov. 12, 1927. 1 Claim. (Cl. 244—14.)



In an aeroplane having a nacelle and a supporting plane therefor, the combination of an engine having a pulling propeller disposed in the front end of said nacelle, a second engine having a pulling propeller disposed in the same vertical plane with respect to said first engine, and a third engine having a pushing propeller coaxially disposed with respect to the line of action of said second engine, the axis of said coaxially disposed engines forming an angle of substantially 8° with the axis of said nacelle and upwardly inclined with respect to the first mentioned engine, whereby the line of travel of said aeroplane is unaffected upon stopping of any one of said three engines.

1,784,655. HARROW AND TOOTH THEREOF. GERALD J. BUDD, Venice, Calif. Filed Aug. 29, 1927. Serial No. 216,131. 7 Claims. (Cl. 55—37.)



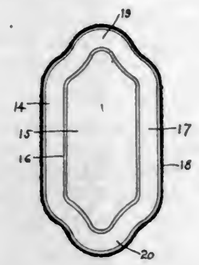
1. A harrow tooth formed of heavy flat metal the shank having an aperture therethrough and bent into U-shape at such aperture and the blade angularly disposed as to the shank and terminating in a point, in combination with a key, said key being adapted to pass through the U-shaped portion and above a portion of the frame member when passed through the U-shaped portion and thereby hold the tooth attached to the frame member.

1,784,656. FILM CUT-OUT. HENRY E. BUTLER, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 12, 1929. Serial No. 370,209. 3 Claims. (Cl. 200—118.)



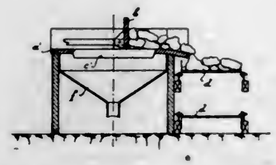
1. A film cutout comprising a metal piece, a second metal piece having a centrally disposed struckout portion, an insulating film separating said pieces, an insulating member which engages the second-named metal piece, and a flange on the first named metal piece which overlies the insulating member to hold the metal pieces in fixed assembled relation.

1,784,657. RUG. CHARLES DE BENEDICTIS, Palisades, N. J. Filed Sept. 4, 1929. Serial No. 390,256. 2 Claims. (Cl. 28—1.)



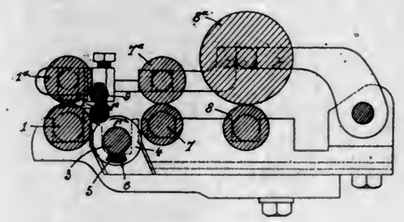
1. As a new article of manufacture, a rug having a rectangularly shaped body terminating in scalloped ends providing sinuous stiffening curved portions adapted to prevent said ends curling, said rug having a fringed border attached thereto, substantially as specified.

1,784,658. APPARATUS FOR AGGLOMERATING AND ROASTING MINERALS. ALEXANDRE DE SAMSONOW, Brussels, Belgium, assignor, by mesne assignments, to Societe pour l'Enrichissement et l'Agglomeration des Minerals, Societe Anonyme, Brussels, Belgium. Filed Dec. 23, 1927, Serial No. 242,197, and in Belgium Jan. 4, 1927. 2 Claims. (Cl. 266—21.)



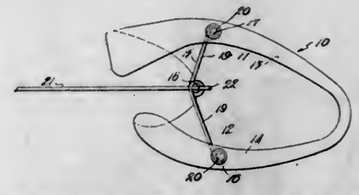
1. Means for discharging treated material from mineral roasting agglomerating and like apparatus having a grating comprising a receiver for treated material disposed adjacent said grating and a movable rear wall to said furnace, said rear wall being movable across the grating to the receiver.

1,784,659. DRIVING MEANS FOR THE ROLLERS OF SPINNING MACHINES. PAUL DEVAUX, Juvisy, France. Filed May 14, 1929, Serial No. 362,894, and in France Mar. 30, 1929. 8 Claims. (Cl. 19—130.)



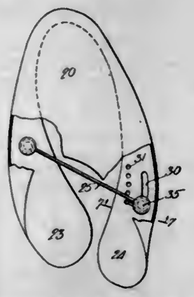
1. In a drawing mechanism for textile fibres, a pair of drawing rollers, a driving shaft close to the lower drawing roller, magnets on said shaft and rotatable therewith, a small roller of magnetic substance resting on said shaft, close to the nip of said drawing rollers, and means for exerting a pressure upon the textile fibres passing over said small roller.

1,784,660. EXPANSIBLE TOE FORM. WILLIAM J. DE WITT, Auburn, N. Y., assignor to Shoe Form Co. Inc., Auburn, N. Y., a Corporation of New York. Filed Dec. 20, 1928. Serial No. 327,399. 2 Claims. (Cl. 12—128.2.)



1. In a shoe form comprising a shell having flanges at the bottoms of its side walls, a single normally resilient brace connecting said flanges, said brace being provided with a loop intermediate its ends, and a thrust bar pivotally secured to said loop.

1,784,661. SHOE FORM. WILLIAM J. DE WITT, Auburn, N. Y., assignor to Shoe Form Co., Inc., Auburn, N. Y., a Corporation of New York. Filed Oct. 24, 1929. Serial No. 402,121. 5 Claims. (Cl. 12—128.5.)



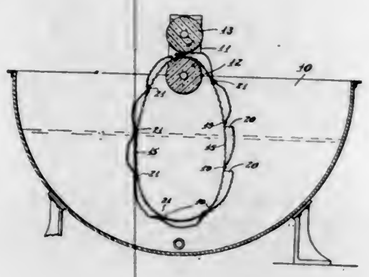
1. A shoe form comprising a hollow toe member of resilient material, the walls thereof being flanged, a crossbar pivotally attached at one end to the flange of one wall, the flange of the other wall having an arcuate longitudinally extending slot and an arcuate longitudinally extending series of holes, the slot forming a guide for the free end of the bar whereby upon the pivotal movement of the crossbar the free end thereof moves relative to the slot and the walls of the toe member are expanded or contracted, and a tongue carried by the crossbar for engaging one of the holes and thereby holding the crossbar against such pivotal movement.

1,784,662. SHOE FORM. WILLIAM J. DE WITT, Auburn, N. Y., assignor to Shoe Form Co., Inc., Auburn, N. Y., a Corporation of New York. Filed Mar. 3, 1930. Serial No. 432,587. 11 Claims. (Cl. 12—128.1.)



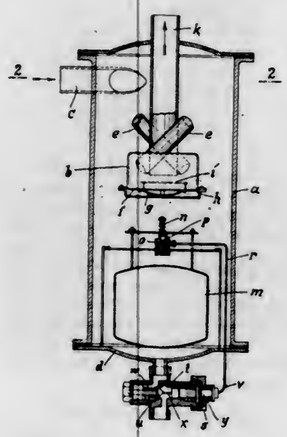
1. In a shoe form comprising side walls, the ends of which walls make the heel of the form, a tab projecting from one of said ends, the other end being provided with at least one slot with which the tab engages, and means to limit the movement of the tab in the slot in one direction.

1,784,663. WASHING MACHINE. JOHN H. DRAPER, Canton, Mass. Filed July 10, 1930. Serial No. 466,903. 3 Claims. (Cl. 68—22.)



1. A washing machine comprising a receptacle for fluid, squeeze-rolls above said receptacle, and an endless flexible belt passing between said rolls, said belt having transverse rows of pockets in side by side staggered relationship.

1,784,664. SEPARATOR. FRIEDRICH EICKHOLT, Geisweid, Germany. Filed Nov. 7, 1928. Serial No. 317,775, and in Germany Nov. 10, 1927. 9 Claims. (Cl. 183—85.)

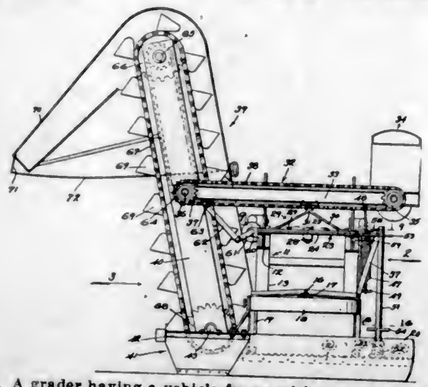


1. An apparatus for separating foreign matter from a fluid medium, comprising an outer receptacle having an intake, an inner receptacle within the outer receptacle having an outlet and a downwardly displaceable valve bottom, an intake connection from the outer receptacle, with its discharge end disposed within the inner receptacle between said outlet and said valve bottom and pointed in a direction to supply fluid for causing the operation of said valve bottom.

1,784,665. FUEL BRIQUETTE. JAMES STEWART FORD and FREDERICK MURRAY, Greymouth, New Zealand. Filed Mar. 6, 1929. Serial No. 344,914, and in New Zealand Nov. 30, 1928. 2 Claims. (Cl. 44—15.)

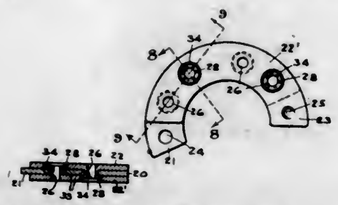
1. Fuel briquettes including the following: slack coal, one hundred tons; molasses, five tons; water, three and two-thirds tons.

1,784,666. LOADING ATTACHMENT FOR ROAD GRADERS. GEORGE GARDNER, Redlands, Calif. Filed May 21, 1928. Serial No. 279,246. 28 Claims. (Cl. 37—108.)



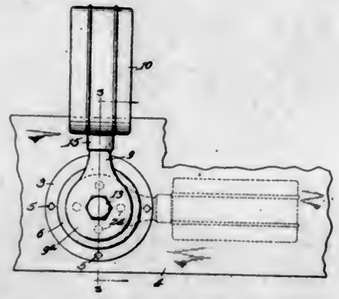
1. A grader having a vehicle frame with a scraper blade, a carrier frame mounted on the vehicle frame and having an engine at one end, an elevator at the other end of the frame, and means to drive the elevator from the engine, the elevator lifting dirt moved by the blade.

1,784,667. SPLIT SEGMENTAL WASHER. ALEXIS F. GILLET, Omaha, Nebr., assignor to Jubilee Manufacturing Company, Omaha, Nebr., a Corporation of Nebraska. Filed Aug. 2, 1929. Serial No. 383,135. 2 Claims. (Cl. 85—51.)



1. A split segmental washer composed of sections comprising side and intermediate plates having means to attach companion sections together, and tangs punched in opposite directions from the side plates through the intermediate plate and upset upon the intermediate plate.

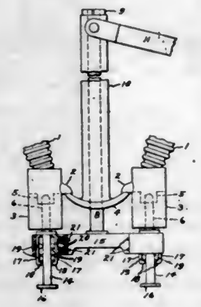
1,784,668. AUTOMOBILE RUNNING-BOARD LAMP. WILLIAM A. GULLETTE, Wheeling, W. Va., assignor of two-thirds to S. K. Frank, Wheeling, W. Va., and one-third to Chas. A. Dick, Wheeling, W. Va., as trustee for John E. Stevenson, Val G. Gundling, and Chas. A. Dick. Filed Feb. 5, 1930. Serial No. 426,062. 5 Claims. (Cl. 240—8.26.)



1. A support of the character mentioned comprising a hollow pedestal adapted for mounting on the running board

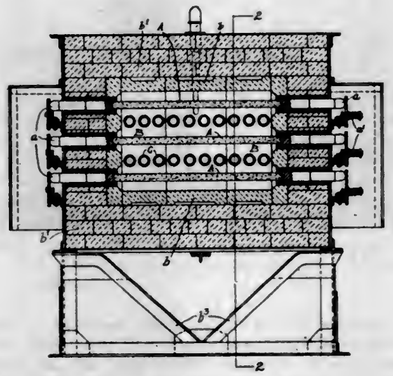
of an automobile, said pedestal having an upper closed end, a rotary cap plate overlying said closed end, a bracket arm surmounting and normally rotatable with said cap plate, adjustable tension means securing said cap plate and said arm in axial relation to said pedestal, and interengageable means between said cap plate and said pedestal whereby the former is held in any of a plurality of positions against chance rotary movement.

1,784,669. ELECTRIC SWITCH. JOHN D. HILLIARD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 26, 1925. Serial No. 52,670. 6 Claims. (Cl. 200—150.)



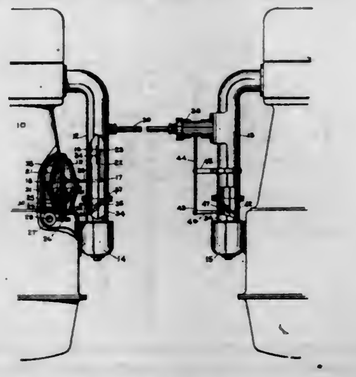
1. An electric switch comprising a pair of spaced contact members, an explosion chamber surrounding each member, an operating rod, a bridging member secured thereto, a pair of contact rods, and a lost motion connection between each of said contact rods and said bridging member comprising a spring pressed plate carried by the bridging member and a plurality of rollers arranged between the plate and the contact rod.

1,784,670. ELECTRIC FURNACE. ARTHUR IMBERY, Halifax, England, assignor to Globar Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Oct. 8, 1928, Serial No. 310,981, and in Great Britain Oct. 10, 1927. 9 Claims. (Cl. 266—1.5.)



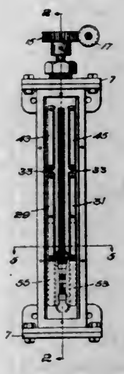
1. In an electrical furnace an enclosed chamber, a plurality of rigid resistors each extending substantially across said chamber, and a plurality of muffles also extending across said chamber, the middle portion of each muffle being equidistant from a plurality of said resistors distributed around it.

1,784,671. THROTTLE MECHANISM FOR INTERNAL-COMBUSTION ENGINES. FERDINAND JEHLE, Cleveland, Ohio, assignor to The White Motor Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 27, 1929. Serial No. 343,083. 1 Claim. (Cl. 123—52.)



The combination with a pair of internal combustion engine fuel supply systems, of a movable member subjected on one side to the fluidic pressure existing in one of said systems and on its opposite side to the fluidic pressure existing in the other of said systems, a throttle valve for one of said system operatively connected to said member, and a manually controlled throttle valve and a governor-controlled valve for the other of said systems.

1,784,672. LIMIT SWITCH. CHARLES R. KELTY, Milton, Mass. Filed Feb. 8, 1926. Serial No. 86,679. 17 Claims. (Cl. 200—47.)

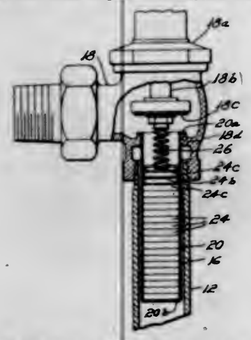


1. In a switch, opposed extended contact surfaces, a brush to travel therebetween, ends of the surfaces being deflected toward each other across the path of the brush to resist travel of the same, one of said elements being laterally yieldable to permit the brush to pass said ends, means to advance the brush and a resiliently yieldable device supporting the brush therefrom.

1,784,673. ADJUSTING UNIT FOR HEATING SYSTEMS. ALBERT J. LOEPSINGER and IRA W. KNIGHT, Providence, R. I., assignors to General Fire Extinguisher Company, Providence, R. I., a Corporation of Delaware. Filed Mar. 25, 1927. Serial No. 178,365. 3 Claims. (Cl. 137—111.)

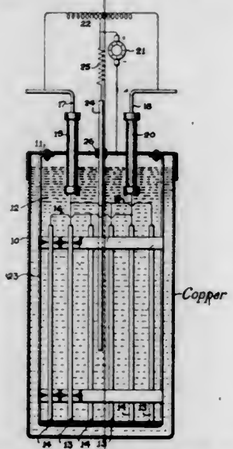
1. Flow impeding means for a hot water heating system comprising in combination, a tube adapted to be inserted

in the local piping circuit of a radiator so that the water flowing through the radiator passes through said tube; a multiplicity of disks each having a perforated body portion extending across said tube and having a marginal flange fitting against the wall thereof and resting against the next adjacent disk to provide a space between the disks;



alternate disks having a central perforation through their body portions and the intervening disks having marginal perforations through their body portions whereby the water passing through the perforations repeatedly suffers impacts and deflections; the said spaces between the disks having capacity of flow at least equal to the capacity of flow through the perforations.

1,784,674. FILM FORMATION AND OPERATION OF ELECTROLYTIC CONDENSERS AND OTHER APPARATUS. RALPH D. MERSHON, New York, N. Y. Filed July 14, 1923. Serial No. 651,478. 18 Claims. (Cl. 175—315.)

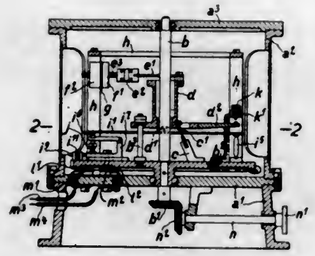


1. Electrolytic apparatus of the class described having an electrolyte and inactive parts made of non-filming metal, and means for passing unidirectional current through the electrolyte to electroplate injurious metals out of the same.

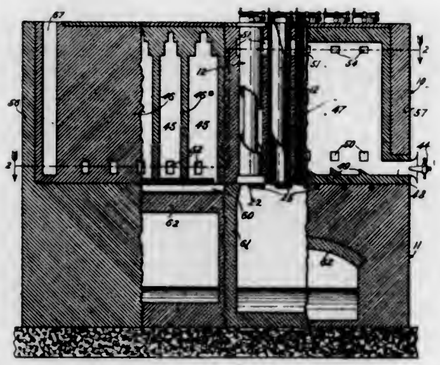
6. In electrolytic apparatus of the class described, a copper containing vessel or tank, an electrolyte therein, and filmed anodes immersed in the electrolyte.

1,784,675. GOVERNOR SWITCH FOR ELECTRIC MOTORS. FRANZ MEYER, Jena, Germany, assignor to the Firm of Carl Zeiss, Jena, Germany. Filed Nov. 19, 1927, Serial No. 234,473, and in Germany Nov. 24, 1926. 3 Claims. (Cl. 200—80.)

1. A speed regulator for electric motors, comprising a base member, a vertical shaft rotatably supported in this base member, means adapted to actuate this shaft, a frame connected to this shaft, a metal band fixed on the frame and on the flyball weight in such a way that its flat side lies vertically, a switch comprising two parts adapted to coact with each other, one of the said two parts being connected with the said flyball weight, while the other is connected with the said frame, springs disposed in the said frame in such a position that their sagging direction falls into the direction of the axis of the said shaft, and means adapted to transmit forces from the flyball weight onto the said springs.

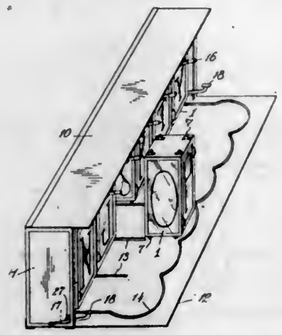


1,784,676. APPARATUS FOR CARBONIZING COAL. JOHN MITCHELL, Clinton, Ind., assignor to Charcolite Corporation, Clinton, Ind., a Corporation of Indiana. Filed Aug. 7, 1925. Serial No. 48,756. 5 Claims. (Cl. 202—114.)



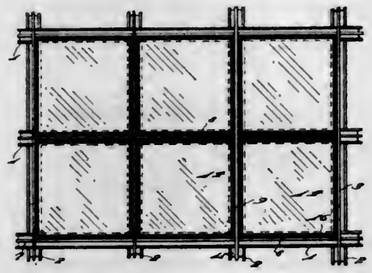
1. In apparatus of the character described, a plurality of upright carbonizing elements, each comprising two concentric tubular members having their side walls spaced apart and closed at the lower end to form a bath chamber and containing a saline heating bath, the inner member having removable closures at the top and bottom thereof, and means for applying heat externally of said elements comprising a supporting structure having upright division walls forming separate heat chambers for each of said elements intermediate the upper and lower ends thereof.

1,784,677. SECTIONAL ILLUMINATED SIGN. BENJAMIN A. MORTON, New York, N. Y. Filed Aug. 15, 1928. Serial No. 299,715. 6 Claims. (Cl. 40—132.)



1. In a display sign the combination of a supporting frame, a plurality of sign-bearing members each having a daylight sign face and an artificially illuminated sign face, said faces being respectively movable into and out of place in said frame, and means for locking said sign members in place in said frame.

1,784,678. VAULT LIGHT, FLOOR LIGHT, OR SKYLIGHT. LOGAN WILLARD MULFORD, Long Island City, N. Y. Filed June 26, 1930. Serial No. 463,955. 3 Claims. (Cl. 94—34.)



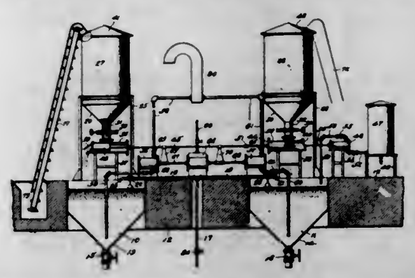
1. In a vault light, floor light or skylight, fabricated metal bars arranged substantially parallel to provide load carrying capacity, sets of other fabricated bars interconnected at an angle with the other bars to form glass receiving openings, seats on the bars to support the glass within the openings, the glass extending for substantially its entire depth in juxtaposition to the surfaces of the surrounding bars, such bars extending substantially to the tread surface, and a sealing compound surrounding the glass and interposed between it and the bars.

1,784,679. CORD TIE. JOHN T. H. PATERSON, Chicago, Ill. Filed Mar. 5, 1929. Serial No. 344,298. 3 Claims. (Cl. 24—30.5.)



1. A bag or sack closure fastener, for a bag or sack having a drawstring, comprising a plate having an opening therein adapted to slidably mount the same on the drawstring and having portions bent to form wedging jaws to frictionally grip the drawstring when the bag is closed and the plate slid against the bag.

1,784,680. METHOD OF AND SYSTEM FOR GENERATING FIRE-EXTINGUISHING FOAM. DUNCAN W. PATTERSON, Douglaston, N. Y., assignor, by mesne assignments, to American La France and Foamite Corporation, a Corporation of New York. Filed Sept. 20, 1921. Serial No. 501,945. 8 Claims. (Cl. 169—15.)



3. A system for continuously generating fire-extinguishing foam comprising a main water supply, two receptacles each open to atmosphere when in use and means for conducting part of said water supply to one receptacle and the rest to the other, in combination with means acting continuously and in constant ratio with respect to the rate of water supply for continuously introducing into the water stream in one receptacle a chemical powder and a foam-stabilizing material and into the other a reacting chemical powder, a mixing conduit, and means for separately conducting said streams from said receptacles to said mixing conduit.

5. The method of continuously producing fire extinguishing foam which comprises, providing two separate streams of water each flowing from a source of supply toward a common point of discharge, substantially simultaneously and continuously introducing a solid reagent and a foam stabilizing material into one stream and another-solid reagent into the other stream, said last mentioned reagent being capable upon solution of reacting with a solution of the first mentioned reagent to produce a non-combustible gas, said reagents being introduced to the respective streams from separate exterior sources in constant proportions with respect to each other and to the rate of water supply, separately conducting said streams from the places of reagent introduction to a remote place of use, and comingling the streams, the introduction of the reagents to the separate streams being in amounts sufficient to render the solutions thereof of foam producing strength, the comingling of the streams effecting a reaction to thereby produce a stable gas-filled foam capable of floating on oil.

1,784,681. TRACTION ATTACHMENT FOR VEHICLE WHEELS. FRANKLIN RIGHTMIRE, Paterson, N. J. Filed Dec. 8, 1927. Serial No. 238,482. 7 Claims. (Cl. 152—14.)

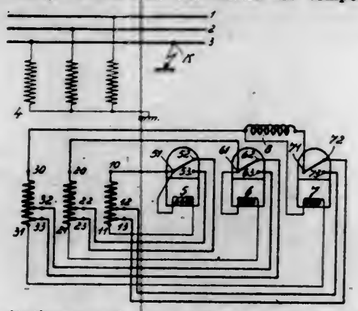


1. A vehicle traction attachment of the class described including a cross-chain having increasing gage from its mid-portion toward each end thereof but having each of its links formed with its end portions of substantially equal gage.

1,784,682. ARC-GROUND SUPPRESSOR. ROBERT SCHIMPF, Berlin-Schlachtensee, Germany, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany, a Corporation of Germany. Filed Apr. 12, 1929, Serial No. 354,595, and in Germany Apr. 19, 1928. 4 Claims. (Cl. 175—294.)

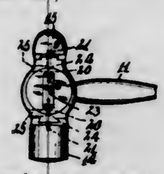
1. An arc-ground suppressor for electrical net works comprising in combination, means for compensating the

capacitative ground current, automatic switching devices dependent upon the voltages between the lines of the net work and ground, and phase shifting connections between the switching devices and the means for compensating



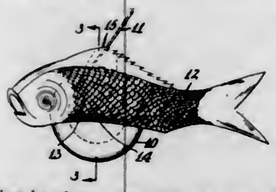
the capacitative ground current, the actuation of a switching device operating to so shift the voltage phase of the means for compensating the capacitative ground current that the ohmic ground current is also compensated at least in part.

1,784,683. SLEDGE HAMMER. FREDERICK SCHWEIGERT, New York, N. Y. Filed May 6, 1929. Serial No. 360,701. 1 Claim. (Cl. 145—29.)



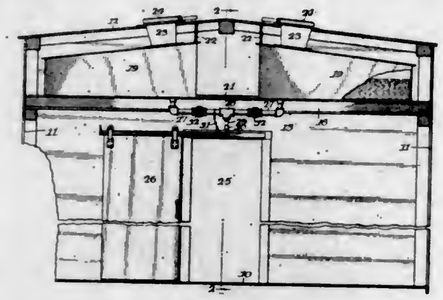
In a sledge hammer having a central portion and striking ends the latter being detachably connected with said central portion by tongue and groove joints, plates slidably mounted in the central portion and formed with reduced latch ends engaging apertures in said striking ends, and a spring consisting of a central portion riveted on the central portion of the hammer head and having ends turned at right angles to the central portion and directed thru cavities in central portion of the aforementioned hammer head and engaged beneath the inner end of said plates for urging said plates into engagement.

1,784,684. PULLING HAND TOP. CODIE D. BELL, New York, N. Y. Filed Oct. 11, 1929. Serial No. 398,828. 3 Claims. (Cl. 46—40.)



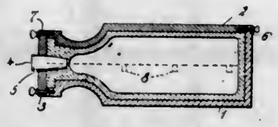
1. A pulling hand top, comprising a casing of any shape and design rotatively supporting a slightly projecting member arranged for receiving a wound cord having its free end extended thru the casing and said member upon being unwound from the cord under the influence of gravity automatically rewinds thereon due to its momentum making it appear as though the casing travels up and down due to stretching and contracting of the cord, said casing consisting of two hinged sections with trunnions supporting said member, and said member consisting of a pair of discs connected by an adjustable shaft, a spring urging the discs apart, and means for holding the sections of the casing in adjusted pivoted position for determining the distance between said discs.

1,784,685. POULTRY CAR. ISRAEL V. EDGERTON, Chicago, Ill., assignor to Palace Poultry Car Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 9, 1928. Serial No. 252,975. 2 Claims. (Cl. 119—12.)



1. A poultry car, comprising a central state-room, poultry compartments at the ends of said state-room with tiers of coops therein and a longitudinal center aisle between said tiers, and a pair of water tanks disposed above said state-room on opposite sides of the median longitudinal vertical plane of the car, the inner walls of said tanks being spaced apart to form a passageway for the circulation of air over the top of the state-room and between the aisles of the poultry compartments.

1,784,686. PROCESS AND APPARATUS FOR PRODUCING WAX BOTTLES. DANIEL FAUERBACH, West Easton, Pa., assignor to General Chemical Company, New York, N. Y., a Corporation of New York. Filed June 23, 1927. Serial No. 200,793. 15 Claims. (Cl. 18—26.)



7. The method of producing hollow elongated objects, which comprises charging an elongated mold with molten material, and permitting said mold to cool while causing said mold to revolve in a circular path in a single plane about a substantially horizontal axis, said plane being at right angles to said axis, the longitudinal axis of said mold being maintained in a plane parallel to said first named axis, and at an angle with respect to said first named axis, said angle being not substantially over 45°.

13. An apparatus for producing hollow elongated objects comprising the combination of a substantially horizontal shaft, an arm laterally projecting therefrom, a mold support fixed to said arm, an elongated mold carried by said support, said support being constructed and arranged to maintain the longitudinal axis of said mold at an angle with respect to the axis of said shaft, said angle being not substantially over 45°, and means for rotating said shaft.

1,784,687. GARMENT-MAKING MACHINE. NICHOLAS GIANCOLA, St. Louis, Mo., assignor of one-half to Robert L. McLaran, St. Louis, Mo. Filed Oct. 3, 1928. Serial No. 309,913. 7 Claims. (Cl. 223—20.)

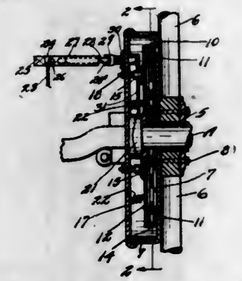
1. In a machine of the character described, a frame, an angular hollow pedestal comprising a vertical portion having its lower end attached to said frame and a horizontal portion projecting forwardly from the upper end of said vertical portion, a rod supported by and at the extremity of said horizontal portion of said pedestal for vertical reciprocating movements, a rigid arm supported

on said frame below and in axial alinement with said rod, a spring at the forward end of said horizontal portion of said pedestal actuating said rod upwardly in a direc-



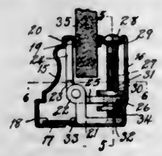
tion away from said arm, and power mechanism connected with said rod for moving said rod toward said arm in opposition to said spring.

1,784,688. BRAKE. HENRY C. GOHLKE, Port Hope, Mich. Filed Dec. 23, 1927. Serial No. 242,030. 2 Claims. (Cl. 188—71.)



2. A friction brake for automotive vehicles comprising a non-rotatable plate, having a hub formed with a cam shaped edge, a rotatable casing spaced therefrom and having a friction disc secured thereto, inwardly projecting lugs on the said plate, a disk mounted thereon, bearings on said disk and in which the ends of the lugs are slidably mounted, a friction element on said disk, a shifter sleeve interposed between said plate and casing and formed with a hub having a cam shaped edge, means mounted on said plate for rotating said shifter sleeve, and including a longitudinally extendible shaft having universal joints at the ends thereof, and resilient means for connecting said plate and disk.

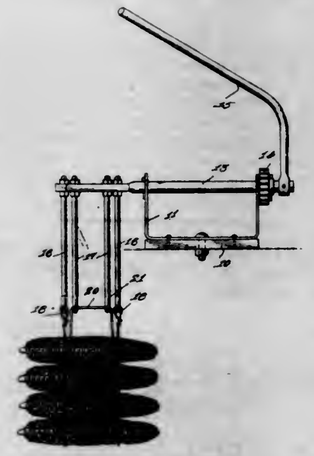
1,784,689. STORE-FRONT CONSTRUCTION. FRED HIMMEL and ISIDORE HIMMEL, New Haven, Conn., assignors to The Himmel Brothers Company, New Haven, Conn., a Corporation. Filed Jan. 2, 1930. Serial No. 417,865. 3 Claims. (Cl. 20—56.4.)



1. A store-front construction, comprising inner and outer members, the outer member formed with a pocket,

an anchoring-plate seated in the inner member and formed with knuckles, a clamping-member pivotally connected with said knuckles, said clamping-member formed with an arm extending into engagement with a pocket in the outer member and with a yoke at substantially right angles thereto, a screw swiveled in the said anchoring-plate and projecting beyond the wall of the inner member, and a nut on said screw with which the said yoke is engaged.

1,784,690. SEED-CORN STRINGER. MARTIN HOLUM, Hazel Run, Minn. Filed Aug. 5, 1929. Serial No. 383,770. 1 Claim. (Cl. 139—19.)



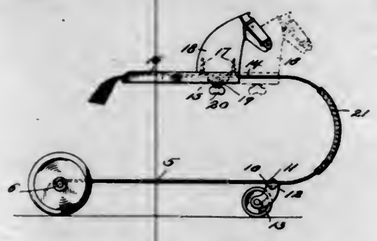
In a device of the class described, a bracket, a pair of spaced parallel shafts journaled thereon for partial rotation in opposite directions, flattened portion formed on corresponding extremities of each shaft and projecting an appreciable distance beyond said brackets a pair of hook-like fingers depending from the flattened portion of each shaft, with the fingers of each pair of equal length and arranged one in advance of the other, and the fingers of one shaft spaced apart a greater distance than the fingers of the other shaft, said fingers being adapted to suspend a piece of twine therefrom in the form of looped strands, and means for imparting rotation to said shafts to cause said fingers to alternately cross each other and assume parallel positions, and instantly cross said strands for the purpose specified.

1,784,691. ROAD-SURFACING MACHINE. HENRY A. INGALLS, Bakersfield, Calif. Filed Mar. 26, 1929. Serial No. 350,020. 1 Claim. (Cl. 37—145.)



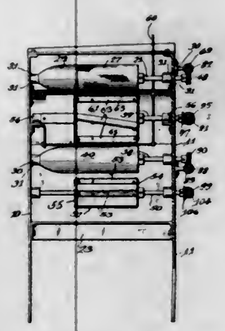
In a machine of the character described, a frame to be drawn over the ground and having parallel side members, a vertically adjustable leveling bar situated transversely of said side members, and guide walls fixed to said side members for engagement with said adjustable ground leveling bar, the walls engaging one side of said adjustable ground leveling bar terminating in spaced relation to the base of said side members for permitting engagement of the dirt with said leveling bar, and said side members having apertures positioned below said last named walls for the passage of dirt therethrough.

1,784,692. TOY. JOSEPH E. KLINE, Port Huron, Mich. Filed June 1, 1929. Serial No. 367,712. 1 Claim. (Cl. 208—165.)



A toy including a wheel-carried U-shaped flat spring, one arm of which is longer than the other and constitutes the base, a stamped metal seat provided on its under side intermediate of the ends thereof with a spring-receiving loop, the shorter arm of the spring being slidable through said loop and bearing against the under side of the seat, and a thumb binding screw carried by the loop and engaging the spring to secure said seat in adjusted position thereon.

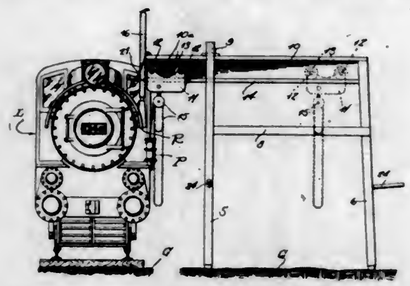
1,784,693. SAUSAGE-CASING MACHINE. JOSEPH S. KROB, Chicago, Ill. Filed May 25, 1928. Serial No. 280,595. 9 Claims. (Cl. 17—43.)



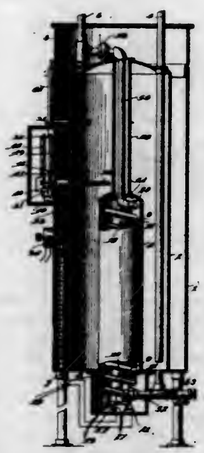
1. A device of the class described including a supporting structure, a pair of rotatably mounted shafts adjacent the upper end of said supporting structure having rollers mounted thereon, means for forcing said rollers toward each other whereby to yieldingly hold the peripheries of said rollers in engagement, another pair of rollers mounted in said supporting structure below said first named pair of rollers and aligned therewith, means for supporting said second named pair of rollers, means for forcing said rollers toward each other to yieldingly hold the peripheries of said rollers in engagement, and rotary members disposed between said first named pair and said second named pair of rollers having cutting members thereon disposed to act on a member stretched between said first named pair and said second named pair of rollers, and an additional pair of rotary members mounted below said second named pair of rollers having scraping elements provided thereon, said scraping elements acting on the member being drawn through said supporting structure by said first and second named pairs of rollers.

1,784,694. WORK-HANDLING CRANE FOR LOCOMOTIVE APPURTENANCES. JOSEPH KWIATKOWSKI, Perth Amboy, N. J. Filed July 5, 1928. Serial No. 290,572. 1 Claim. (Cl. 104—126.)

In a hoisting apparatus for the purpose specified, comprising a supporting frame and a horizontal projecting beam adapted to sustain suitable hoisting mechanism, a vertical tubular member secured to the forward end of said beam, a vertically adjustable bar slidably mounted in said tubular member, and provided at its lower end with a grooved block to engage with a pipe line or rail on a locomotive engine and rest thereon, said tubular member and said adjustable bar being formed with holes to receive a holding pin and said beam being formed with a socket to seat said pin and hold the adjustable member in place.



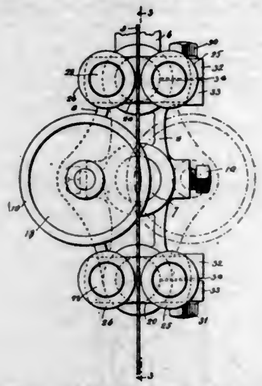
1,784,695. ELECTRIC WATER HEATER. WALTER S. LANG, Kendallville, Ind., assignor to The Lang Electric Mfg. Company, Kendallville, Ind., a Corporation of Indiana. Filed June 4, 1928. Serial No. 282,698. 13 Claims. (Cl. 219—39.)



1. A water heater comprising a water tank, a heating unit comprising a water coil communicating at its extremities with the bottom and top of the tank, and a heating element situated between the convolutions of the coil and extending from one extremity to the other; and a heating chamber situated within the water tank, containing the heating unit and constituting a hot core for the volume of water in the tank.

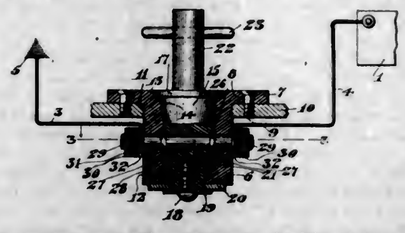
1,784,696. BAND-SAW HOLDER. FREDAICK LEHMBECK, New Providence, N. J. Filed Dec. 16, 1927. Serial No. 240,553. 3 Claims. (Cl. 143—161.)

1. A guide for band saws and the like, comprising a support, a shaft engaged with said support at one end, a main cross-head carried at the other end of said shaft, swingable auxiliary cross-heads journaled in the opposite ends of said main cross-head and extending transversely thereof, a pair of roller supporting shafts journaled in each of said auxiliary cross-heads, a guiding roller mounted on each of said roller supporting shafts, said main cross-head being formed with an offset portion in the plane of the transverse center of the same, and a bearing roller journaled in said offset portion between and adjacent the guide rollers and



having a portion of its peripheral edge projecting beyond the longitudinal center of said main cross-head for the engagement of the outer side face thereof with the back edge of a saw operating between said guiding rollers.

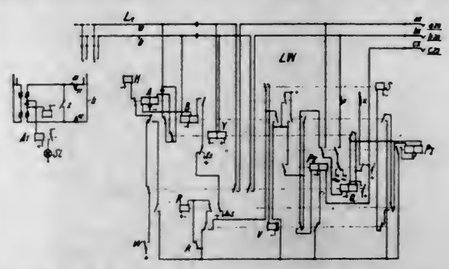
1,784,697. CURRENT CONTROLLING OR INSULATING DEVICE FOR IGNITION SYSTEMS. EUGENE MARTIN, Freeport, and JOHN JOSINSKY, Bayside, N. Y. Filed Oct. 18, 1927. Serial No. 226,993. 1 Claim. (Cl. 200—164.)



A current controlling device for ignition systems comprising a body of non-conducting material provided at its top with an apertured lateral flange for the passage of holdfast devices to fixedly secure said body in position, said body formed with a centrally disposed tapered opening having the wall thereof intermediate its upper and lower ends provided with a pair of diametrically disposed recesses, said wall at its top being off-set to provide a shoulder, said body further having a pair of oppositely disposed, endwise aligning channels disposed concentrically with respect to said recesses and extending from the latter to the outer periphery of said body, a pair of oppositely extending binding posts mounted in said channels and each having its inner end provided with a head seated in a recess and flush with the wall of said opening, said posts projecting from said body and carrying means on their outer ends for coupling the sections of the battery lead therewith, a tapered, rotatable plug of insulation extending through said opening and provided with a flange seated against said shoulder, a contact member mounted in and extending transversely through said plug, having its ends flush with the periphery of the latter for engaging said head to electrically connect said posts together, and means carried by said plug and coacting with the flange for coupling the plug to said body.

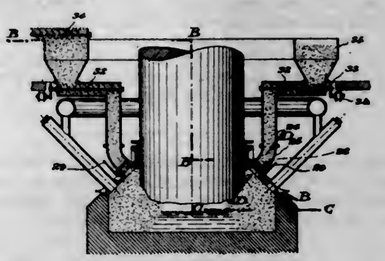
1,784,698. TELEPHONE SYSTEM. FRIEDRICH MERK, Frankfort-on-the-Main, Germany. Filed Dec. 8; 1927, Serial No. 237,556, and in Germany Dec. 4, 1926. 15 Claims. (Cl. 179—27.)

1. In a telephone system having calling and called subscribers' lines, a tool operator's position having incoming toll lines and automatic switches controlled by either a calling subscriber or the toll operator for establishing a connection to a called line characterized by the fact that said switches are provided with means for automatically



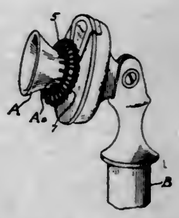
signalling the calling and called subscribers in case the line called by the toll operator is busy and for thereupon automatically breaking the connection to the other subscriber.

1,784,699. AUTOMATIC CHARGING OF ELECTRIC FURNACES. PAUL LOUIS JOSEPH MIGUET, St.-Julien-de-Maurienne, France. Filed Mar. 20, 1929, Serial No. 348,646, and in France Dec. 6, 1928. 8 Claims. (Cl. 266—1.5.)



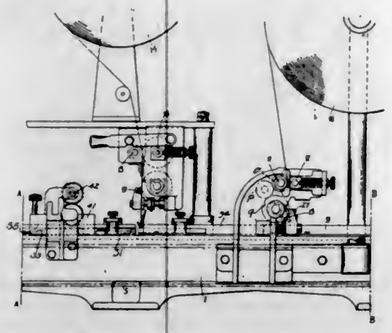
1. Apparatus for feeding material to a circular electric furnace comprising a plurality of tubes arranged around the periphery, a plurality of feed hoppers mounted one above each tube, a screw conveyor at the base of each hopper to convey the material forward to the tube and a second screw conveyor to feed the material into the hopper.

1,784,700. SANITARY TELEPHONE DEVICE. CARL MILLER, New York, N. Y. Filed Aug. 29, 1929. Serial No. 389,257. 2 Claims. (Cl. 179—185.)



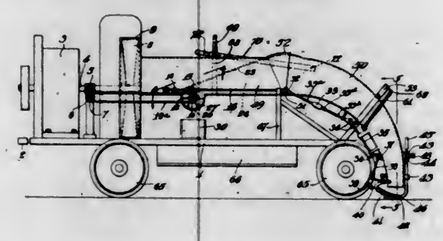
1. The combination with a telephone transmitter having a mouthpiece of conical shape provided with openings near the base thereof, of an annular ring of spring wire coiled to form a tubular structure and adapted to be snapped over the mouthpiece and to grip the base thereof, said ring having another ring of absorbent material enclosed thereby and chargeable with a vaporizable disinfectant, the vapor emitted by a ring so charged being adapted to penetrate into the mouthpiece through said base openings.

1,784,701. MEANS FOR PACKING CIGARETTES AND LIKE ARTICLES. WALTER EVERETT MOLINS, Deptford, London, England. Filed May 2, 1927, Serial No. 188,285, and in Great Britain May 6, 1926. 8 Claims. (Cl. 93—2.)



1. In a package making machine, the combination with the machine bed, of means operable to move an article along the bed, means for feeding and locating a strip of rigid material transversely to the path of said article, means operable to fold the strip around three sides of the article, means for feeding and locating a strip of wrapping material transversely to the path of said article with the longer dimension thereof disposed at right angles to the longer dimension of said reinforcing strip, and means for forming said wrapping material into an open ended U shaped block ended container with the reinforcing strip disposed around three inner side walls of the same.

1,784,702. CRANBERRY GATHERER. JAMES E. MORANO, Hammonton, N. J., assignor of one-third to Anthony De Marco, Hammonton, N. J. Filed Apr. 20, 1927. Serial No. 185,232. 4 Claims. (Cl. 56—330.)



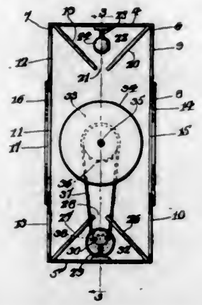
1. In a cranberry gatherer, a wheel supported frame having a conduit mounted thereon and provided with a vacuum chamber, the forward end of the conduit having a pivoted section disposed to partly telescope within said conduit, said pivoted section being positioned over the front end of the machine and having a suction nose to lift the vines of the bog, means carried by the pivoted section and associated with and adjacent the suction nose to ride over the bog and thereby govern the position of the suction nose with reference to the vines of the bog, means for combing the berries from the vines, whereby they may be drawn into the conduit at the suction nose, means for cutting the twigs and keeping the combing means clean, screening rods in the rear of the vacuum chamber to screen the twigs from the berries, the rear portion of the vacuum chamber having an offset compartment, a beater in said compartment for removing the cranberries from the vacuum chamber, said compartment having a discharge opening for the cranberries, and means at the lower portions of the screening means for chopping the twigs allowing them to be drawn beyond the screening means.

1,784,703. VULCANIZATION ACCELERATOR. HAROLD A. MORTON, Akron, Ohio. Filed Apr. 12, 1927. Serial No. 183,233. 16 Claims. (Cl. 18—53.)

8. An accelerator of vulcanization consisting of a condensation product of alpha ethyl beta methyl acrolein and an amine, neutralized by abietic acid.

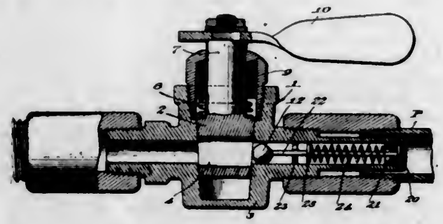
16. A vulcanizable rubber compound comprising rubber, sulphur, zinc oxide and a condensation product of alpha ethyl beta methyl acrolein and aniline.

1,784,704. SIGN. WILLIAM F. MORTON, Portland, Oreg. Filed Jan. 16, 1930. Serial No. 421,240. 4 Claims. (Cl. 40—133.)



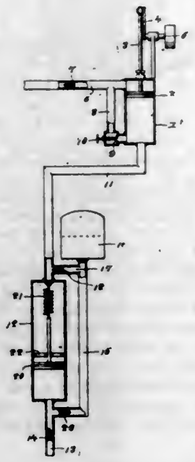
1. A sign structure of the illuminable type comprising a housing having at the top and bottom of its front and at the top and bottom of its rear light emitting portions consituting the matter to be displayed, an upper pair of inclined, oppositely disposed depending reflectors opposing the light emitting portions at the top of said front and rear of said housing, a light source arranged between said reflectors, said reflectors spaced from each other at their bottoms to provide a passage for the light rays emanating from said source, a lower pair of inclined, oppositely disposed, upstanding reflectors opposing the light emitting portions at the bottom of the front and rear of the housing, a light source arranged between the reflectors of the lower pair, said lower pair of reflectors spaced from each other at their tops to provide a passage for the light rays emanating from the light source therebetween, and a rotatable light ray color changer and reflector element journaled in the sides of said housing and positioned in spaced relation to and opposing said pairs of reflectors, the said reflectors inclining inwardly away from said light emitting portions.

1,784,705. AUXILIARY AIR-PRESSURE STOP. EMIL J. OLSEN, North St. Paul, Minn., assignor of one-fourth to Emelia Olsen, one-fourth to Corrine Olsen, and one-fourth to Vernon Olsen, St. Paul, Minn. Filed Oct. 18, 1928. Serial No. 313,319. 1 Claim. (Cl. 277—24.)



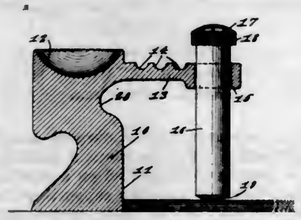
In a valve of the character described, a casing having a bore and three tubular members projecting therefrom and communicating with the bore, one of the members forming an inlet, a rotary plug valve in the bore of the casing and having three passages and a recess in its periphery opposite one of the passages, a valve seat and guide in the inlet member of the casing, the seat being near its outer end and the guide adjacent its inner end, a disc valve in the outer end of said tubular member and having a stem extending through the valve sent and guide and provided with a stop, a spring on the valve stem between the valve seat and stop, and a ball loose in the inlet member between the end of the valve stem and the plug valve, whereby the disc valve will be held open until the ball enters the said recess which will be closed.

1,784,706. PUMP. JACOB M. PHILLIPS, Pillow, Pa. Filed Nov. 4, 1929. Serial No. 404,702. 1 Claim. (Cl. 103—44.)



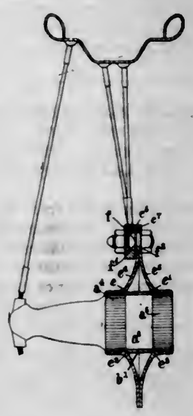
A pump system comprising a cylinder, an imperforate piston therein, means for operating the piston, a pipe connected with the top of the cylinder and having a check valve therein, a branch pipe connecting said pipe with the bottom of the cylinder, a spring pressed valve in the branch pipe, means for adjusting the tension of the spring thereof, a second cylinder, a pipe connecting the bottom of the first cylinder with the top of the second cylinder, an imperforate piston in the socend cylinder, a spring connecting the piston rod thereof with the top of the cylinder and tending to hold the piston in raised position, a well pipe connected with the bottom of the second cylinder and having a check valve therein, a compression chamber, a pipe connecting the same with the well pipe and a pipe connecting the pipe which is connected with the compression chamber with the pipe which connects the two cylinders together, said pipe containing a check valve.

1,784,707. PAPER WEIGHT. WILLIAM C. PORTER, Bogalusa, La. Filed Nov. 15, 1929. Serial No. 407,479. 2 Claims. (Cl. 120—82.)



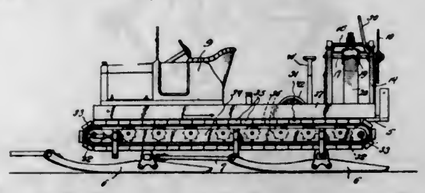
1. A paper weight comprising a base member having a flat outer face against which loose leaves may be aligned and straightened in pile formation, a bridge piece carried by and outwardly projecting from the base member having a vertically disposed opening adjacent its outer end, and a weight member of cylindrical formation mounted for vertical reciprocating action within said opening and for engagement with the uppermost of the piled leaves.

1,784,708. ROTATIONAL-DRIVING CONNECTION. JOHN VERNON PUGH and GILBERT THOMAS BAYLISS, Coventry, England; said Bayliss assignor to said Pugh. Filed Nov. 14, 1928, Serial No. 319,436, and in Great Britain Nov. 21, 1927. 6 Claims. (Cl. 287—52.09.)



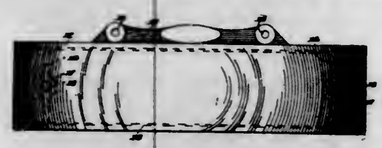
1. A two way drive torque-transmission coupling comprising a rotatable element, having an engaging region of non-circular cross section, not less than two members with apertures complementary to said engaging region positioned thereon and having faces adjacent one another, radially corresponding but circumferentially slightly displaced apertures through said faces and wedging means in said displaced apertures to cause rigid gripping of the engsging region by said members.

1,784,709. PORTABLE SAWING MACHINE. HENRY RICH, Elmo Township, Otter Tail County, Minn. Filed July 2, 1929. Serial No. 375,377. 2 Claims. (Cl. 143—43.)



1. In a portable sawing machine, a platform having an endless log feeding conveyor along one side thereof, a motor mounted on said platform and having a rearwardly projecting drive shaft, a vertically swinging saw frame pivoted upon the rear portion of said drive shaft and extending transversely of the platform over the rear end of said conveyor, a saw carrying shaft journaled on the free end of said saw frame, a guide for the frame and means for bracing the frame against lateral movement, means to operatively connect said saw carrying shaft to said drive shaft, and means operatively connecting said conveyor to said drive shaft, said last named means embodying a normally released clutch for maintaining the conveyor out of operation and having manually operable means for engaging the same to throw the conveyor into operation.

1,784,710. REAR-VISION MIRROR. VICTOR E. SHOWALTER, Elgin, Ill., assignor to Elgin National Watch Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 14, 1929. Serial No. 339,875. 5 Claims. (Cl. 88—1.)

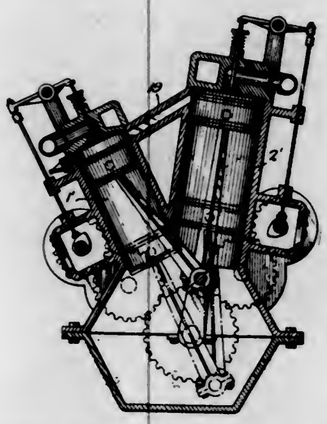


1. A metal rear vision mirror comprising an integral arcuate reflecting wall and chordal reinforcing walls, one of said chordal reinforcing walls having a projecting flange whereby the mirror may be attached to a support.

1,784,711. PROCESS OF RECOVERING CRESOL FROM AQUEOUS SOLUTIONS OF SAME. HERMANN SUIDA, Modling, near Vienna, Austria. Filed July 6, 1926, Serial No. 120,861, and in Austria July 13, 1925. 1 Claim. (Cl. 260—154.)

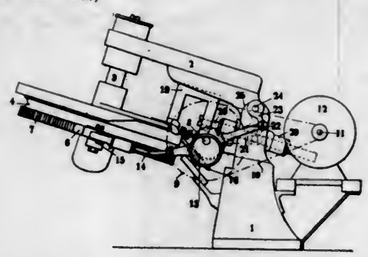
The process of recovering cresol from aqueous solutions of same, comprising treating the solution with trichlorethylene, separating the solution of cresol and trichlorethylene from the water, and distilling off the trichlorethylene from the resulting solution of cresol and trichlorethylene.

1,784,712. INTERNAL-COMBUSTION ENGINE. LEO SINGLETON TISDALE, New Albany, Miss. Filed July 21, 1928. Serial No. 294,360. 1 Claim. (Cl. 123—53.)



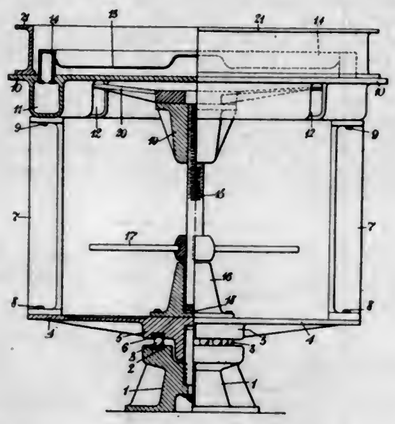
An internal combustion engine comprising a plurality of cylinders arranged in pairs, with one cylinder of each pair of greater diameter than the other cylinder of the pair, a piston in each cylinder, a crank shaft, connecting rods connecting the cranks of the shaft with the pistons, the connecting rod for each large piston being of greater length than the connecting rod for each small piston whereby each large piston will be moved upwardly to a point close to the top of its cylinder, while each small piston will have its upward movement terminate a distance from the top of its cylinder, the cranks being arranged with the cranks for the small pistons beyond dead center when the cranks of the large pistons are on dead center, exhaust means connected with the top of each large cylinder, inlet means connected with the top of each small cylinder, an unobstructed passage connecting the top of each small cylinder with a large cylinder a distance from the top of said large cylinder, said passage being closed by the large piston on the upward movement of the same and the upward stroke of each small piston terminating short of the passage and means in each small cylinder for firing the explosive mixture when the large piston is on dead center and the small piston is beyond dead center.

1,784,713. LINKING MACHINE. JEAN BAPTISTE VALTON, Troyes, France, assignor to Société les Fils de Valton & Cie., Troyes, France. Filed June 6, 1928, Serial No. 283,316, and in France June 18, 1927. 2 Claims. (Cl. 112—25.)



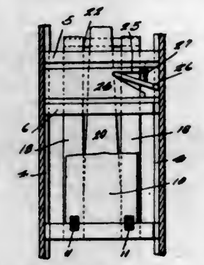
1. A knitted fabric sewing machine, comprising a frame, a crown supported by this frame, a main driving shaft which continuously rotates, a comb on the periphery of this crown, a ratchet wheel fixed to the crown, an eccentric strap on the said main shaft, a rod rigid with this eccentric strap, a pawl actuated by the said rod and acting on the ratchet wheel, a rotary loop-forming hook rigid with the said main shaft and co-axial with the same, a secondary shaft receiving from the main shaft an angular reciprocating movement, a crank shaft arm rigid with the secondary shaft, a needle-carrier terminated by a yoke and receiving the movement of the said crank arm, a needle secured on one of the branches of this yoke and radially moving relatively to the crown.

1,784,714. APPARATUS FOR PREPARING CASTING MOLDS. BERNARDUS LEBUINUS MARIA VAN DER LANDE and GERRIT KOMEN, Deventer, Netherlands. Filed Mar. 26, 1928, Serial No. 264,918, and in the Netherlands Aug. 27, 1927. 3 Claims. (Cl. 22—9.)



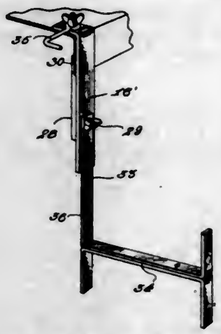
1. A molding apparatus for the purpose described comprising in combination a pattern plate, a molding box carried thereon, a pattern block carried on a stem concentric with the pattern block, a turntable supporting the pattern plate, molding box and central stem, means for rotating the turntable, and means for rotating the centre stem to adjust the pattern block relatively to the pattern plate to vary the depth of the mold.

1,784,715. IRONING BOARD. LEO E. WATTS, Enid, Okla., assignor to John F. Holtzen, Enid, Okla. Filed Sept. 4, 1929. Serial No. 390,302. 5 Claims. (Cl. 68—10.)



1. A means for the purpose described, the combination of a casing having vertical runways on the inner sides of opposed walls thereof, a body disposed and movable in said runways, a bar slidable in said body into one of said runways and having a notch at the other end thereof, a rod extending into the notch and into the other runway, and a spring urging said rod in one direction to bind the bar and rod in the runway to hold the body in adjusted position, and a board operatively connected with said body.

1,784,716. OIL-CAN SUPPORT AND OIL STOVE. GEORGE W. WEST, West Warwick, R. I. Filed May 7, 1928. Serial No. 275,821. 1 Claim. (Cl. 248—20.)



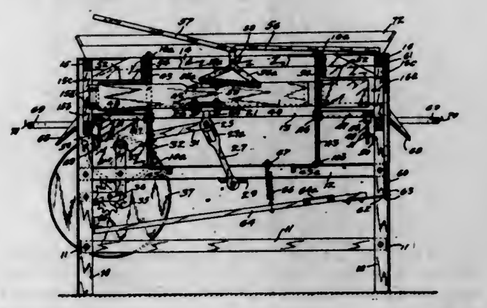
A can support for use upon oil burning stoves comprising a plate member having an offset upper end engageable with the upper and outer side of the stove, a locking plate carried by the plate member having a reduced portion extended behind the side of the stove body oppositely disposed to that of the depending portion of the plate member, an L-shaped plate member having one end pivotally connected with the plate member, a U-shaped member carried upon the shorter leg of the L-shaped member having the arms therefor oppositely disposed with relation to that of the shorter leg of the L-shaped member, and a hook carried by the plate member engageable with the longer leg of the L-shaped member to sustain same and the U-shaped member in position for use.

1,784,717. SPRING CLIP. JAMES BARNES, Glasgow, Scotland. Filed Nov. 8, 1929, Serial No. 405,791, and in Great Britain June 1, 1929. 1 Claim. (Cl. 24—81.)



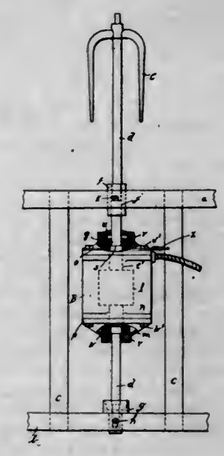
In a spring-clip, comprising two clips adapted to be connected together, one limb of each clip being bent over to form a loop, and a U-shape member adapted to have one of its legs pivotally received by the loop of one clip and its other leg pivotally received by the loop of the second clip.

1,784,718. POTATO-CUTTING MACHINE. JOHN A. BERGREN and CHARLES G. BERGREN, Lake Park, Minn., assignors to Bergren Manufacturing Company, a Corporation. Filed Aug. 16, 1926. Serial No. 129,463. 10 Claims. (Cl. 146—169.)



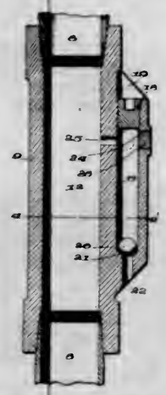
1. A potato cutting machine having in combination, a cutting head, spaced members forming a substantially V-shaped open-bottomed trough adjacent and extending to said cutter head for supporting the potatoes to be cut, a plunger movable in fixed relation to said trough for pushing a potato through said cutter head, and a guard plate above said plunger and extending across the same with its edge in close proximity thereto and above the end of said trough remote from said cutter head for removing potatoes from the top of said plunger as said plunger moves away from said cutter head, whereby said potatoes will drop into said trough.

1,784,719. MEANS FOR DRIVING SPINDLES IN TEXTILE-SPINNING MACHINES. JOSEPH BERLINERBLAU, Warsaw, Poland. Filed Dec. 14, 1927, Serial No. 240,049, and in Great Britain Dec. 15, 1926. 4 Claims. (Cl. 118—43.)



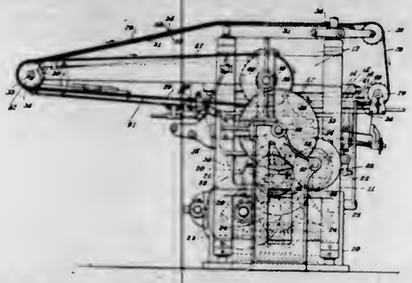
1. In a spinning machine, a frame, a spindle in the frame, an electric motor including a rotor and a casing, the rotor being mounted on the spindle, a shoulder on the spindle supporting the casing, and a resilient connection between the frame and the casing preventing turning of the latter.

1,784,720. STAGE-LIFT FLOWING DEVICE. ALEXANDER BOYNTON, San Antonio, Tex. Filed Dec. 10, 1926, Serial No. 153,950. Renewed Aug. 16, 1928. 6 Claims. (Cl. 103—232.)



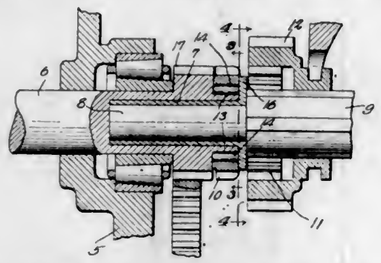
1. A stage lift flowing device for wells comprising a body having a flow passage and a valve chamber, one end of said valve chamber being provided with a tapered valve seat and an inlet port, the other end of the chamber being threaded, a plug in the threaded end of the chamber, opposite walls of said chamber being provided with substantially aligned horizontal openings, one of which constitutes a port, a plug in the other one of the aligned openings, the said second-named port being provided with a vertical valve seat, and a ball valve engageable with said vertical seat.

1,784,721. PRESS FOR OPERATING UPON SHEET MATERIAL. ALFRED BREDENBERG, Champlain, N. Y., assignor of one-half to The Sheridan Iron Works, Champlain, N. Y., a Corporation of New York, and one-half to T. W. & C. B. Sheridan Company, New York, N. Y., a Corporation of New York. Filed Mar. 8, 1928. Serial No. 260,186. 3 Claims. (Cl. 101—4.)



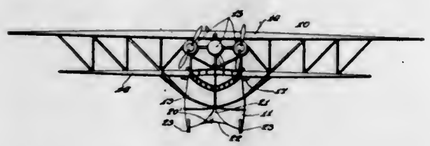
1. In a power operated platen press for performing pressing operations upon leather, cardboard or analogous sheet material, of the class wherein is a work feeding carrier for advancing successive portions of the sheet material between the opposing press members and an automatic mechanism for actuating such work feeding carrier; such actuating mechanism comprising in combination, a crank member, and a star member driven thereby, said members constituting an intermittent drive device and having connections from the star member for shifting the carrier and work between pressing operations, together with a fast-and-slow transmitting gear taking its motion from the same power source as the pressing operation and connected to drive said crank member and timed to advance the latter at the slow speed while engaged with the star member and at the fast speed while disengaged therefrom, whereby the carrier shifting and work advancing period of each cycle is relatively prolonged and the period of rest shortened.

1,784,722. CLUTCH CONSTRUCTION. JAMES R. CARICKHOFF, Lexington, N. C. Filed Nov. 22, 1928. Serial No. 321,218. 1 Claim. (Cl. 192—48.)



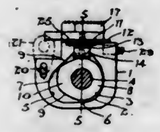
In a transmission, a clutch shaft, a tubular bushing within the free end of the clutch shaft, said bushing having a flange resting against one end of the clutch shaft, a direct drive high speed clutch member on the clutch shaft, said clutch shaft having recesses formed in one end thereof, roller clutch members in the recesses and engaging the direct drive high speed clutch member for locking the direct drive high speed clutch member to the clutch shaft, said flange of the bushing covering the recesses, a drive shaft having one end thereof disposed in the bushing to rotate therein, and means for transmitting movement of the drive shaft to the direct drive speed clutch member.

1,784,723. AIRCRAFT. MANUEL HERRERA DE HORA, New York, N. Y. Filed Oct. 17, 1928. Serial No. 313,145. 2 Claims. (Cl. 244—2.)



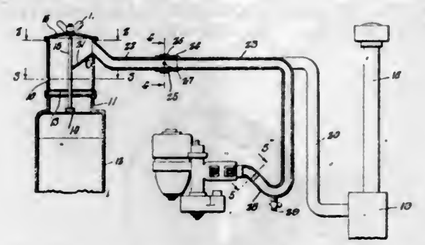
1. In an aircraft, a buoyant hull having a bottom stepped transversely at intervals and being upturned in curved formation to the bow of the craft, said bottom having a tapered pocket formed therein and extending from the bow to the first step thereof, said pocket being transversely curved and terminating at its forward end in a restricted throat and at its rear end in an open mouth.

1,784,724. SEWING-MACHINE FEED. JOHN GARDE, Toronto, Ontario, Canada. Filed May 18, 1928. Serial No. 278,728. 3 Claims. (Cl. 112—15.)



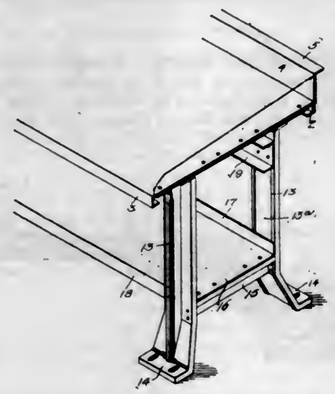
2. A sewing machine feed, comprising in combination, a cam, a carrier flexibly supported and engaging said cam and lifted vertically thereby, said carrier being oscillatable with respect to said cam and having a vertical slot at one side thereof, a horizontally mounted shaft, a downwardly extending crank arm on said shaft having a pin loosely arranged in said slot and engaging the side walls thereof to reciprocate said carrier laterally, said pin being adapted to engage the end walls of said slot during the vertical movement of said carrier to impart an oscillating movement thereto about said cam, and adjustable means for rocking said crank shaft.

1,784,725. HUMIDIFYING DEVICE. CARL J. GUSTAFSON, Aberdeen, S. Dak. Filed Sept. 27, 1929. Serial No. 395,685. 1 Claim. (Cl. 123—25.)



In a humidifying device for internal combustion engines comprising a housing having a perforated bottom seated within the filling neck of a radiator therefor, a false bottom of like construction arranged at spaced intervals to the housing bottom, air inlet and discharge pipes having connection with the housing at spaced heights, a baffle plate carried by and obliquely disposed between the connections of the pipes in advance of the inlet pipe to facilitate mixing and dampening of the air with the water vapor collecting within the housing, and means carried by the housing having connection with the radiator to prevent displacement of the housing while in use.

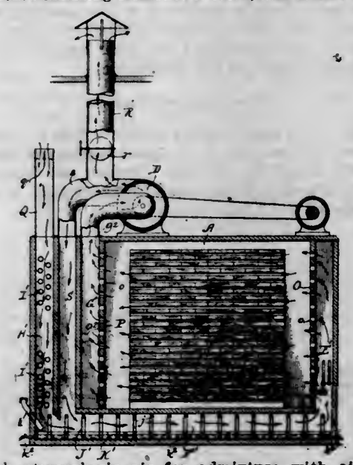
1,784,726. WORKBENCH. HOWARD T. HALLOWELL, Jenkintown, Pa., assignor to Standard Pressed Steel Company, Jenkintown, Pa., a Corporation of Pennsylvania. Filed Apr. 4, 1927. Serial No. 180,907. 2 Claims. (Cl. 45—31.)



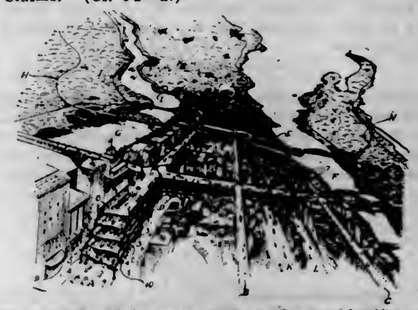
1. The combination in a metallic work-bench, of a top made of sheet metal having an inturned downwardly extending flange at front and back; a back plate secured to the back flange; end pieces having flanges at their lower edges; and legs secured to the top and flanges of the end pieces near the edges thereof.

1,784,727. METHOD OF AND APPARATUS FOR CONDITIONING LUMBER AND OTHER MATERIALS. GORDON D. HARRIS, Stamford, Conn., assignor to The Industrial Dryer Corporation, Stamford, Conn., a Corporation of Connecticut. Filed Apr. 14, 1926. Serial No. 101,869. 16 Claims. (Cl. 34—19.)

1. Drying apparatus embodying a humidifying chamber, a liquid tank therein, and a series of moisture diffusing elements dipping into the tank and by capillary action tending to saturate said elements with liquid, said moisture diffusing elements operating to diffuse water vapor for admixture with air adapted to flow within said humidifying chamber, combined with a work chamber, means for circulating air by drawing it through the humidifier and the moisture diffusing elements therein, and means for feeding fresh atmospheric air for admixture with air to be circulated by such circulating means, and means for heating the fresh air prior to admixture with the recirculated air and means for evenly distributing the flow of air through the working chamber.

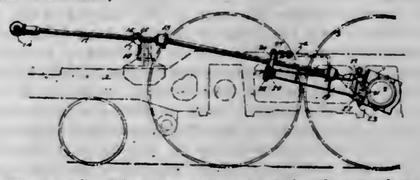


1,784,728. TRANSIT APPARATUS. JOHN A. HARRISS, New York, N. Y. Filed Apr. 29, 1927. Serial No. 187,429. 2 Claims. (Cl. 94—1.)



1. In multiple highway structures, the combination of a plurality of superimposed road surfaces sufficiently above initial level to provide clearance for vehicular traffic on the initial level, supporting means for said superimposed surfaces, and means of approach from the initial level to each of said superimposed surfaces independently of the other for avoiding traffic interference on one level incident to access to another, said several means of approach having surfaces substantially parallel to each other.

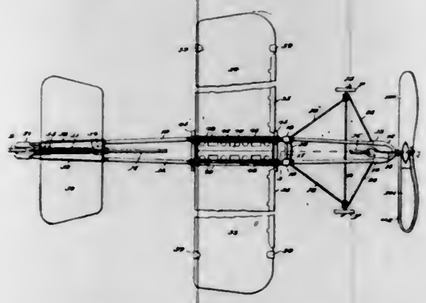
1,784,729. VALVE GEAR. JOHN S. KEEN, Philadelphia, Pa. Filed Dec. 30, 1929. Serial No. 417,525. 3 Claims. (Cl. 105—118.)



1. The combination in valve gears for locomotives, of an axle; a gear wheel on the axle; a shaft at right angles

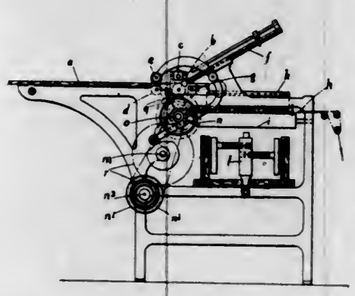
to the axle, and having a pinion thereon meshing with the gear wheel; a housing enclosing the gear wheel and the pinion, and forming a bearing for the shaft, said shaft being connected to the valve mechanism of the locomotive; a torque rod pivotally connected to the housing, so that the housing will have a limited amount of lateral movement; and a link connecting the outer end of the torque rod with the frame of the locomotive.

1,784,730. TOY AIRPLANE LANDING GEAR. HARRY T. KINGSBURY, Keene, N. H. Original application filed June 19, 1929, Serial No. 372,128. Divided and this application filed Jan. 7, 1930. Serial No. 419,112. 5 Claims. (Cl. 46—50.)



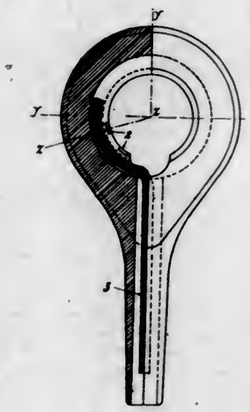
1. In a toy airplane, longitudinally extending body spars having ears mounted thereon, and an undercarriage comprising front and rear parts and including means to force the upper ends of such parts resiliently away from one another, the upper portions of said parts being engaged by said ears and held in engagement therewith by such resilience.

1,784,731. PAPER-FOLDING MACHINE. OSCAR KLEINSCHMIT, Leipzig-Plagwitz, Germany, assignor to Gebrüder Brehmer, Maschinenfabrik, Leipzig-Plagwitz, Germany. Filed Nov. 8, 1929, Serial No. 405,804, and in Germany Dec. 13, 1928. 1 Claim. (Cl. 270—67.)



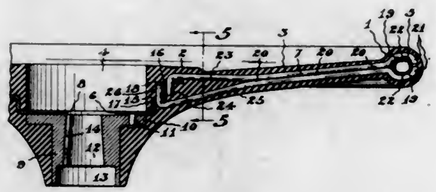
In a paper folding machine, a main driving shaft, sheet conveying mechanism, a control shaft, variable change speed gearing between the main driving shaft and the control shaft whereby the speed of the said control shaft may be varied according to the size of the sheet to be folded, buckling folding rollers for receiving the paper and subjecting the same to the first folding operation, a cone pulley on the main driving shaft whereby a constant speed of rotation is imparted to the sheet conveying mechanism, a lay shaft, and a cone pulley on the lay shaft coacting with the first mentioned pulley whereby a variable speed is imparted to the control shaft by which the feed, subsequent folding and stacking operations are regulated.

1,784,732. APPARATUS FOR LUBRICATION BY MEANS OF CAPILLARY ELEMENTS. MARCEL KOEHLER, Levallois-Perret, France, assignor to Société Anonyme: Graissage "Alcyl," Levallois-Perret, Seine, France. Filed May 24, 1928, Serial No. 280,283, and in France June 2, 1927. 4 Claims. (Cl. 184—64.)



4. A coupling device for capillary lubricating systems comprising an internally grooved thimble having an inlet orifice communicating with said groove, a wick disposed in said orifice extending into said groove, and a plurality of pairs of integral retaining lugs formed on said thimble adjacent said groove for retaining said wick in said groove.

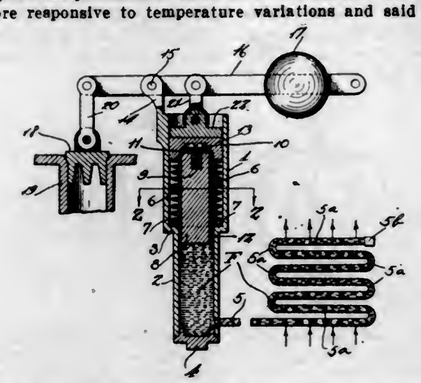
1,784,733. STEERING WHEEL. HERMAN T. KRAFT, Akron, Ohio, assignor to The H. A. Husted Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 12, 1929. Serial No. 399,208. 7 Claims. (Cl. 74—33.)



1. In a composition steering wheel, metallic spoke reinforcements embedded in the spokes thereof, a metallic hub reinforcement embedded in the hub thereof, each of said spoke reinforcements being secured to said hub reinforcement at axially and laterally spaced points, and a body of composition material molded around all of said reinforcements.

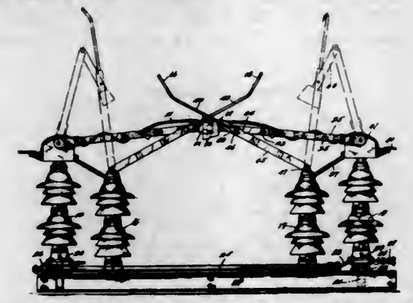
1,784,734. HYDROTHERMOSTATIC VALVE CONTROL. JAMES J. LAWLER, Mount Vernon, N. Y. Filed Jan. 31, 1929. Serial No. 336,554. 7 Claims. (Cl. 236—99.)

1. In a hydrothermostatic valve control, a casing, an expansible tube in the casing closed at its upper end with the lower open end secured to the side wall of the casing, between the upper and lower ends of the casing forming a chamber between the upper end of the tube and the lower end of the casing, a thermostatic tube communicating with the lower end of the casing with a fluid filling the chamber and tube, and a core insert in the expansible tube occupying the major interior area thereof to render the fluid more responsive to temperature variations and said core



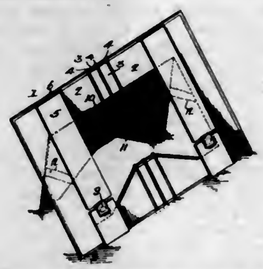
depending below the lower end of the expansible tube to be impinged by the body of fluid in the lower end of the chamber.

1,784,735. ELECTRIC SWITCH. JOEL S. LAWSON, St. James, N. Y., assignor to Memco Engineering & Manufacturing Company, Inc., New York, N. Y., a Corporation of New York. Filed July 17, 1925. Serial No. 44,294. 4 Claims. (Cl. 200—48.)



1. A high tension electric switch, comprising a pair of pivoted radius members inclined toward each other in closed circuit position, arcing horns carried by said radius members and engaging each other in circuit closing position, but moving upward and away from each other on movement of the radius arms to open circuit position, in combination with a toggle system comprising a contact arm connected to the radius arms and substantially horizontal in closed circuit position, but displaced to inclined position with the contact end downward on movement of the parts to open circuit position.

1,784,736. EASEL SUPPORT. SIDNEY LEAR, Germantown, Pa. Filed July 2, 1929. Serial No. 375,562. 4 Claims. (Cl. 281—33.)



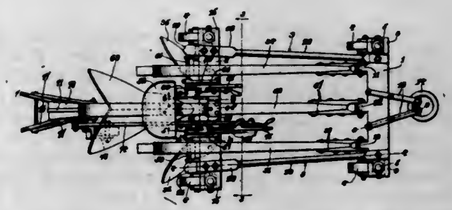
1. The combination in an easel support, of a body portion having a center longitudinal hinge; and an easel section transversely hinged to the body portion on a line crossing the longitudinal hinge line of the body portion, so that when the easel section is extended it will lock the body portion in the open position.

1,784,737. MANUFACTURE OF MICA TUBES AND SHEETS. ARTHUR LLOYD, London, England, assignor to Bakelite Limited, London, England, a British Company. Filed Aug. 1, 1928, Serial No. 296,767, and in Great Britain Aug. 15, 1927. 2 Claims. (Cl. 154—2.6.)



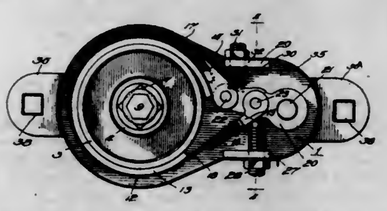
1. A new article of manufacture being a sheet containing mica in which the binder between the mica constituents of the article is a condensation product from a phenol, a urea, and an aldehyde.

1,784,738. COMBINATION PLOW. GEORGE P. LUCIUS, Ruleville, Miss. Filed Mar. 8, 1930. Serial No. 434,317. 10 Claims. (Cl. 97—91.)



1. In a combination plow, a front and a rear axle, a pair of side members connecting the axles and coacting therewith to provide the frame of the plow, a plurality of supporting beams pivotally connected with the front axle and extending across the rear axle, an earth working element carried by each beam, means for individually adjusting the beams to regulate the depth of cut of the earth working elements independently, and means for independently swinging the beams about their pivots to selectively move the earth working elements into inoperative position.

1,784,739. RECOIL CHECK. MILLARD BOWEN LUCKER, Benton Harbor, Mich., assignor to Auto Specialties Manufacturing Company, a Corporation of California. Filed July 2, 1928. Serial No. 290,020. 7 Claims. (Cl. 188—130.)

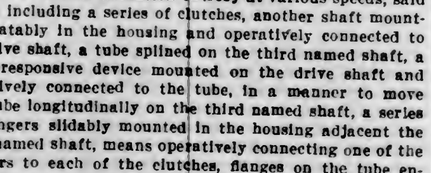


1. In a device of the character described, a rotatable drum, a stationary pivot, a rigid swinging anchor mounted at one end on said pivot and having its free end extending toward the drum, a brake band on the drum, and a connection between each end of the band and the anchor at a point between the pivotal axis of the anchor and the drum, the connection between one end of the band and the anchor being nearer the drum than the connection between the other end of the band and anchor.

1,784,740. ADHESIVE. GUSTAVE S. MATHEY, Elizabeth, N. J., assignor to Johnson & Johnson, New Brunswick, N. J., a Corporation of New Jersey. Filed June 3, 1927. Serial No. 196,404. 1 Claim. (Cl. 87—17.)

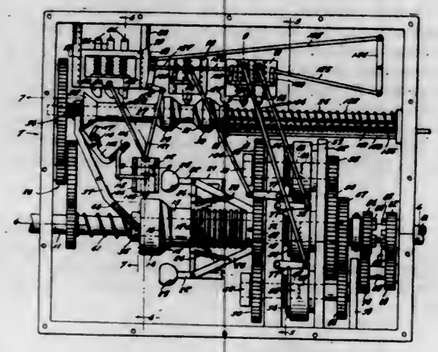
The method of treating rubber latex for use as an adhesive, which consists in subjecting refined latex emulsion to repeated concentration effort in the presence of an agent giving an alkaline reaction, adding a germicidal agent, heating the stock in the presence of preservatives and then cooling it to reduce it to a jelly-like mass, and straining the cold mass to liquefy it so that it will not jell again.

1,784,741. CAR RERAILER. EDMOND J. MCCARTY, Chicago, Ill. Filed Oct. 25, 1929. Serial No. 402,483. 3 Claims. (Cl. 104—268.)



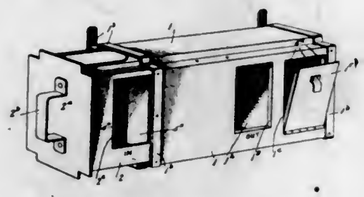
1. A car replacer, including a body engageable with the rail ties in contiguity to the rail and equipped with a lateral extension at each end projecting over the ball of the rail and extending beneath the latter.

1,784,742. AUTOMATIC TRANSMISSION. CHARLES GOODYEAR MITCHELL, Miami, Fla. Filed Aug. 4, 1930. Serial No. 473,009. 3 Claims. (Cl. 74—97.)



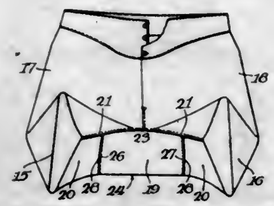
1. A transmission for vehicles of the character described comprising a housing, a drive shaft extending rotatably into the housing, said drive shaft connected to the engine of the vehicle, a driven shaft extending rotatably into the housing, means for selectively coupling the driven shaft to the drive shaft for actuation thereby at various speeds, said means including a series of clutches, another shaft mounted rotatably in the housing and operatively connected to the drive shaft, a tube splined on the third named shaft, a speed responsive device mounted on the drive shaft and operatively connected to the tube, in a manner to move said tube longitudinally on the third named shaft, a series of plungers slidably mounted in the housing adjacent the third named shaft, means operatively connecting one of the plungers to each of the clutches, flanges on the tube engageable with the plungers for actuating the same in a manner to engage and disengage the clutches.

1,784,743. RECEIVING AND DISPENSING CABINET. HARRY A. MONTGOMERY, Louisville, Ky., assignor to Sani-Loc Cabinet Company, Louisville, Ky., a Corporation. Filed Apr. 1, 1929. Serial No. 351,752. 19 Claims. (Cl. 232—41.3.)



1. A receiving and dispensing cabinet comprising an outer casing having an outlet opening; a telescoping inner casing having an inlet opening; means for aligning articles successively inserted through the inlet opening upon each telescopic operation, each successive article moving the aligned column towards the outlet opening and taking the position of the next preceding article; and automatically operated means for preventing access to the articles between the inlet and outlet openings when uncovered.

1,784,744. UNDERWEAR OR ATHLETIC PANTS. FRANK H. NEGLEY, South Bend, Ind., assignor to Wilson Brothers, Chicago, Ill., a Corporation of Illinois. Filed Jan. 25, 1929. Serial No. 334,900. 3 Claims. (Cl. 2—224.)

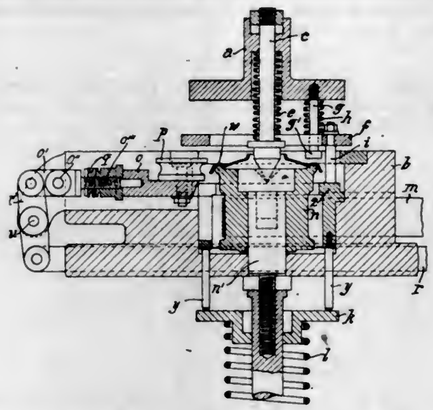


1. Drawers and the like for men and boys of substantially non-elastic fabric, having a closed back, seat and crotch and comprising a pair of main body and leg sections having fly-forming offsets at their upper front portions with spaced, substantially straight front edges below said offsets and having extensions at the lower portions of their rear edges that are united by inseams to the lower portions of said front edges, and a unitary insert section forming the central portions of the back and seat and the entire crotch portion of the garment and having a broad, convex front edge united to the front edges of said main section by a seam of inverted U-shape, both the side edges of said insert being united to the rear edges of said main sections and to the upper edges of the said extensions thereof by seams the lower front portions of which are substantially horizontal and terminate at said inseams, the latter and the inverted U-shaped seam at the broad front edge of the insert section being disposed in front of the crotch and substantially in the plane of the front of the garment, substantially as described.

1,784,745. MEANS FOR EFFECTING ROTARY OPERATIONS IN STEP PRESSES. ERNST BRUNO NIER, Beierfeld, Germany. Filed Oct. 29, 1926, Serial No. 145,044, and in Germany Nov. 7, 1925. 5 Claims. (Cl. 153—59.)

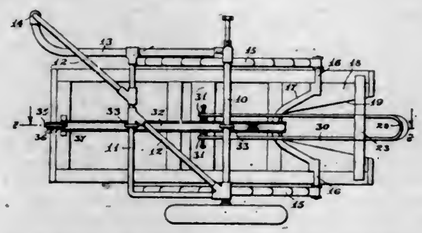
1. In a press having a row of tools adapted to perform drawing, punching, stamping, or similar operations, apparatus for producing hollow, dished, cover-shaped, or similar bodies, comprising devices capable of vertical operations, and a device capable of rotational operation, said

last named device being adapted for drawing, rolling, beading, flanging, and the like, and means for controlling and



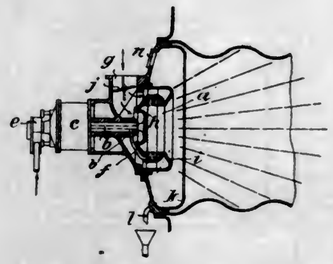
operating said devices, whereby vertical rectilinear operations and a horizontal rotary operation may be performed simultaneously in a single machine.

1,784,746. TRUCK. GROVER PARKER, Red Bank, N. J. Filed Apr. 25, 1930. Serial No. 447,333. 12 Claims. (Cl. 208—45.)



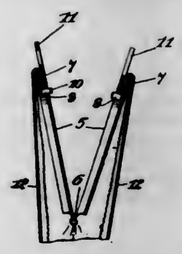
1. A service truck for motor cycles or the like, including a truck body, and a wheel receiving stirrup carried thereby, said stirrup being vertically adjustable with respect to said body, the floor of said body being cut away to provide for the extension therethrough of a wheel carried in said stirrup.

1,784,747. FUEL BURNER. BRUNO PECKELHOFF, Rahlstedt, near Hamburg, Germany. Filed Nov. 1, 1928, Serial No. 316,486, and in Germany Nov. 9, 1927. 2 Claims. (Cl. 158—77.)



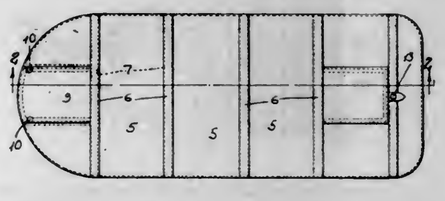
1. In a fuel burner, the combination with a rotating annular cup of substantially U shaped cross-section having the legs of the U directed toward the axis of rotation of the cup for receiving and retaining liquid fuel therein, of means for causing a blast of air to impinge on the surface of the fuel to effect gasification of the same, whereby the lighter and more readily gasifiable particles of fuel only are subjected to the action of the impinging blast of air, said means comprising a fan and a plurality of outwardly directed nozzles located within said cup and rotatable therewith.

1,784,748. HAND BAG AND FRAME THEREFOR. FRANK J. QUIGAN, Jackson Heights, N. Y. Filed Oct. 12, 1929. Serial No. 399,113. 9 Claims. (Cl. 150—29.)



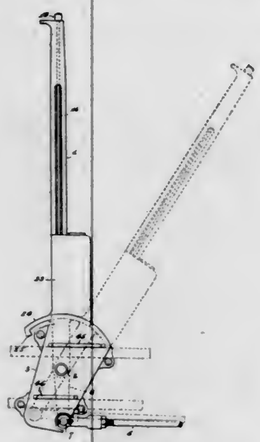
8. In a handbag frame comprising U-shaped members hinged together, each member being channelled inwardly to provide spaced inner and outer walls extending upwardly and outwardly, whereby the upper and outer ends of the handbag fabric can be passed over the outer surfaces of the outer walls of the channels and over the top edges of such walls and secured in position in such channels; latching means carried by the undersides of said frame members, said latching means being independent of the securing means for the handbag fabric.

1,784,749. BATHTUB ATTACHMENT. WALTER RAPALSKI, Philadelphia, Pa. Filed Oct. 8, 1929. Serial No. 397,025. 1 Claim. (Cl. 4—162.)



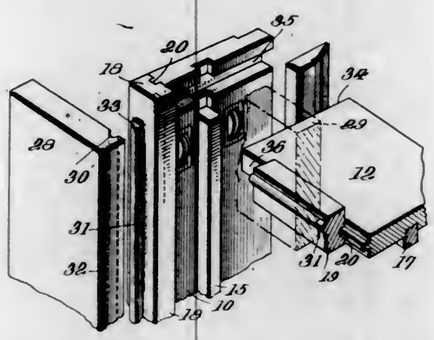
In a bath tub attachment, a flat water proof fabric sheet adapted to be placed over a bath tub to occupy a position in a horizontal plane at the upper edge of the tub, said sheet having a plurality of spaced parallel cross pockets therein extending the complete width of the sheet, reinforcing rods in the pockets of the same length as the width of the sheet adapted to rest at their ends on the upper side edges of the tub to support the sheet in a horizontal plane, said sheet having head and faucet openings, respectively in opposite ends thereof, an adjustable buckle strap carried by the sheet, a coil spring attached at one end to the buckle strap and a hook on the other end of the spring adapted to be engaged with the grid of the overflow opening of the tub to retain the sheet in position on the tub.

1,784,750. EMERGENCY-BRAKE LEVER AND LOCK. JOSEPH RATTO, Brooklyn, N. Y. Filed Oct. 26, 1928. Serial No. 315,175. 4 Claims. (Cl. 70—132.)



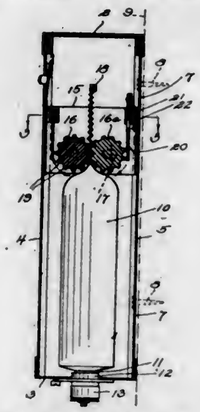
1. An emergency brake lever and lock, including a swinging lever, a rack, a housing for said rack, means carried by the lever for closing the opening in the housing, a catch carried by the lever, manually-actuated means for moving the catch to disengaged position, and key-operated means for locking the catch against actuation.

1,784,751. WINDOW FRAME. LEYLE BURROWS REEB, Roselle, N. J. Filed Sept. 19, 1928. Serial No. 306,992. 1 Claim. (Cl. 20—11.)



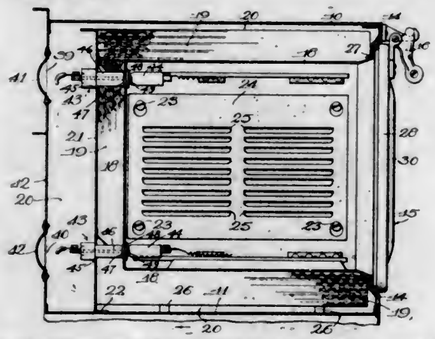
In a window or like frame having longitudinal and horizontal jamp members, longitudinal blind stops carried by the outer edges of said longitudinal jamb members and of a length similar to said members, a horizontal blind stop carried by the outer edge of the horizontal jamb member, said blind stop being of a length equal to the width of the window openings and having its ends in abutment with the longitudinal blind stops at a point below the upper ends of said stops, tongues arranged centrally of the width of the outer faces of said blind stops, the tongues of the longitudinal blind stops ending short of the outer ends of said stops, the tongues of the horizontal blind stop extending throughout the length of this stop, longitudinal and horizontal outer window casing members provided with grooves in their inner faces, the longitudinal window casing members being of a length of the tongues of the longitudinal blind stops, the grooves of the outer window casing members interlocking with the tongues of the blind stops for automatically positioning the outer casing members, and the horizontal outer casing member of a length equal to the entire width of the window frame and abutting that portion of the upper ends of the longitudinal blind stops which carry no tongues.

1,784,752. COLLAPSIBLE-TUBE HOLDER. JOHN I. RIES, Chillicothe, Ohio. Filed July 26, 1928. Serial No. 295,434. 1 Claim. (Cl. 221—60.)



In a device of the character described, a longitudinally slotted casing having a removable top wall and a bottom wall provided with an opening, a threaded member positioned within said opening and arranged for the connection with the threaded neck portion of a collapsible tube, a tube collapsing member comprising a frame slidably mounted within said casing, a pair of intermeshing corrugated rollers journaled for rotation within said frame, an operating member attached to one of said rollers and extending through the slot of the casing, elongated bearings formed in said frame for one of said rollers, a detent carried by said frame and positioned for engagement with the roller having the elongated bearing for holding the rollers in their intermeshing relationship with each other, said detent may also be slid from out of engagement with said rollers permitting the rollers to be separated for the insertion and removal of the collapsible tube, and means carried by said detent and engaging said frame for holding said detent in an active and inactive position with respect to the rollers.

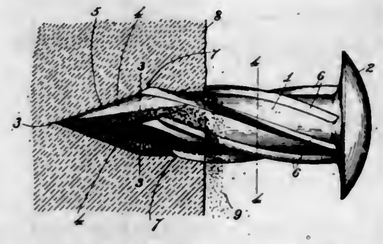
1,784,753. ELECTRIC OVEN CONSTRUCTION. FREDERICK W. ROGERS, Beaver Dam, Wis., assignor to Malleable Iron Range Company, a Corporation of Wisconsin. Filed July 30, 1928. Serial No. 296,304. 7 Claims. (Cl. 126—275.)



1. An oven structure provided with an outer casing and a lining, said lining having the forward portions of

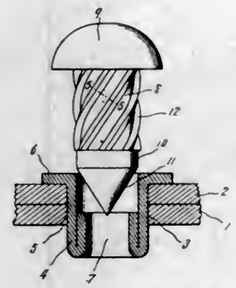
the top, bottom and side walls thereof flared outwardly at the door opening, said flared portions terminating in flanges, a door for said opening having an outer member and a lining spaced therefrom, said lining having flared portions terminating in a perimetrical flange, said flared portions and flange of said door being respectively adapted to contact closely with the flared portions and flange of said oven lining when said door is closed, and a heat insulating gasket between said outer door member and said perimetrical flange to reduce heat conduction through said flange to the outer surface of the door.

1,784,754. ART OF ANCHORAGE IN MASONRY. HEYMAN ROSENBERG, New York, N. Y. Filed Apr. 12, 1923. Serial No. 631,592. 1 Claim. (Cl. 72—101.)



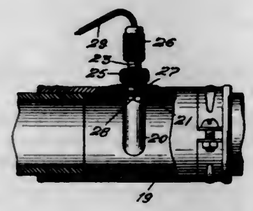
In the art of anchorage in hard masonry such as cement, concrete, brick, or natural stone, forming an entering opening in masonry of less length than the length of the portion of the anchorage device to be inserted, axially inserting an anchorage device in said opening, the body of said anchorage device being of less diameter than that of the opening and having ribs outstanding beyond the lateral limits of the opening, and delivering a series of hammer taps on the exposed portion of the anchorage device axially thereof for advancing the anchorage device with a succession of jumps corresponding to the number of taps, the taps being delivered of such character as to allow the crumbled material of the masonry to find its way out along the anchorage device in the valleys between the ribs.

1,784,755. ANCHORAGE DEVICE. HEYMAN ROSENBERG, New York, N. Y. Filed Dec. 16, 1925. Serial No. 75,831. 8 Claims. (Cl. 85—37.)



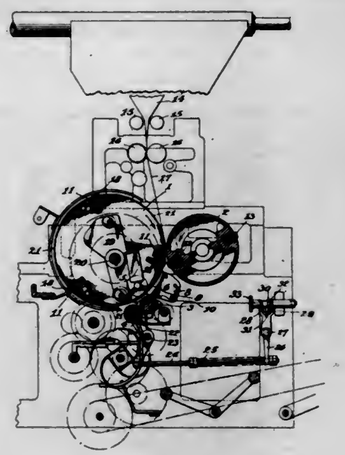
1. Anchorage means comprising a sleeve-rivet and a pin having an end portion of a diameter substantially equal to the diameter of the bore of the rivet, the pin having a rib extending generally longitudinally of the pin and outstanding therefrom beyond the extended lines of the surface of the end portion for causing the rib to enter the material of the rivet when the pin is forced into the rivet longitudinally, the rib sufficiently approximating parallelism with the longitudinal axis of the pin for permitting the pin to be so driven into the rivet and for causing the rib to enter the rivet approximately longitudinally with respect to itself when the pin is so driven.

1,784,756. MOUNTING FOR TEMPERATURE RESPONSIVE ELEMENTS. HERMAN SCHLAICH, Long Island City, N. Y. Filed Oct. 10, 1928. Serial No. 667,708. 9 Claims. (Cl. 73—52.)



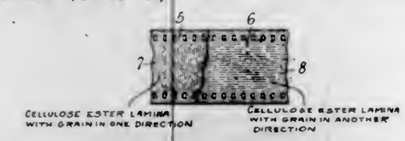
7. In a heat indicator, a temperature responsive element adapted to be mounted in a hose connection of an engine-cooling system, comprising an element shell of small diameter provided with an end of relatively larger diameter terminating in a stem, a tube permanently sealed in the stem and a clamping means associated with the stem, said element adapted to be inserted through a hole in said hose and to clamp the wall of said hose between the large diameter shell end and the aforesaid clamping means.

1,784,757. FOLDING OR OTHER DEVICE. DAVID J. SCOTT, Plainfield, N. J., assignor to Isabella Scott and David J. Scott, executors of the estate of Walter Scott, deceased, doing business under the name of Walter Scott & Company, Plainfield, N. J. Filed Feb. 21, 1930. Serial No. 430,244. 23 Claims. (Cl. 270—65.)



1. In a folding device, a rotating sheet-carrying cylinder, a folding blade periodically projecting from said cylinder, a pair of folding rolls located in spaced relation to the exterior of the cylinder to receive sheets, delivered by the folding blade, from the cylinder, and a safety-gate in such spaced relation to the cylinder, at a point in advance of the location of the folding rolls, as to prevent an excess of material carried by the cylinder from passing between said cylinder and safety-gate and thence to the folding rolls.

1,784,758. CELLULOSE FILM. SAMUEL E. SHEPPARD and JAMES G. MCNALLY, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 2, 1929. Serial No. 336,984. 9 Claims. (Cl. 95—9.)



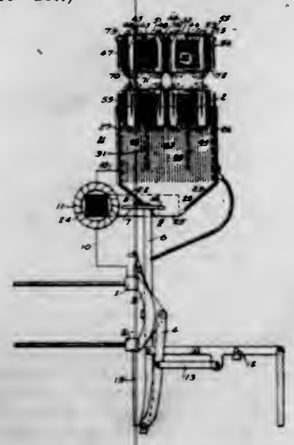
1. A substantially flat laminated cellulose ester film comprising at least two laminæ having the grain of one lamina at an angle to the grain of the adjacent lamina.

1,784,759. HAND BAG. JACOB SIMS, Brooklyn, N. Y. Filed Aug. 11, 1930. Serial No. 474,344. 7 Claims. (Cl. 150—29.)



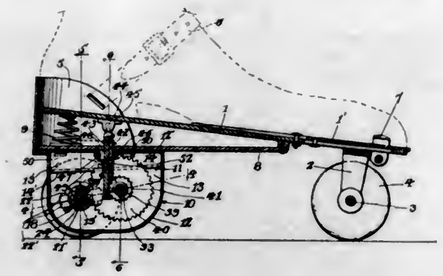
6. In a handbag, the combination of two metal channel members pivoted together constituting the frame of said bag, and a flap acting as a closure for said bag having one end thereof compressed within one of said channel members, the continuation of said flap constituting one of the sides of the body of said bag.

1,784,760. CIRCUIT BREAKER. JOSEPH SLEPIAN, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 6, 1927. Serial No. 181,289. 41 Claims. (Cl. 200—147.)



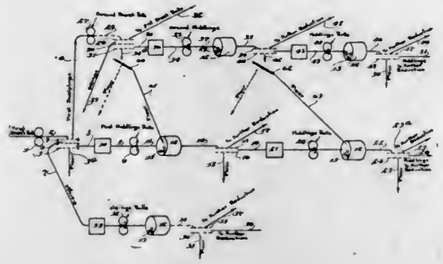
1. Circuit-interrupting means comprising a pair of members between which an arc may be drawn and deionizing means adjacent the arc path comprising a plurality of metal plates disposed to subdivide the arc into a series of short arcs and of such configuration as to provide a recurrent path for said short arcs.

1,784,761. ROLLER SKATE. JERRY T. SMITH, Washington, D. C. Filed Apr. 10, 1930. Serial No. 443,112. 2 Claims. (Cl. 208—174.)



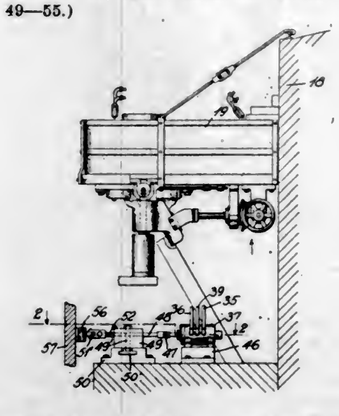
1. In a roller skate, a pair of plates mounted for relative reciprocation, a housing secured to one of said plates, a web carried by the other of said plates, a rotatable axle upon which the housing is mounted and provided with a ground wheel, a tension element normally forcing said plates apart, said plates being relatively movable toward each other against the action of the tension element, tongues formed on the web and extending beneath the plate to which the housing is secured to provide stop means for limiting the diverging movement of the plates, gearing mechanism mounted within the housing for driving the axle, and means operable by the relative reciprocation of said plates for actuating the gearing mechanism.

1,784,762. PROCESS OF AND APPARATUS FOR MILLING FLOUR. LOUIS E. SMITH, Minneapolis, Minn., assignor, by mesne assignments, to Hart-Carter Company, Peoria, Ill., a Corporation of Delaware. Filed Mar. 29, 1930. Serial No. 439,959. 19 Claims. (Cl. 83—42.)



1. The process of milling flour which consists in subjecting the whole grain to a crushing compression to crack the bran and break down the endosperm, some of which endosperm is pressed into the form of flakes, in repeatedly subjecting the middlings portion of the resulting stock to a multiplicity of non-uniform compressional impacts whereby the endosperm and flakes thereof are further reduced to or toward flour form without materially disintegrating the bran flakes, and in separating the bran from the flour.

1,784,763. GLASSWORKING APPARATUS. MERTON A. STEELMAN, deceased, Vineland, N. J., by Anna M. Steelman, administratrix, Vineland, N. J., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Original application filed June 16, 1916, Serial No. 101,878. Renewed Oct. 29, 1924. Patent No. 1,603,994, dated Oct. 19, 1926. Divided and this application filed Dec. 19, 1925. Serial No. 76,534. 5 Claims. (Cl. 49—55.)



1. Glass working apparatus comprising a feeder for molten glass provided with a discharge outlet and with a fluid-pressure operated shear arranged to reciprocate beneath said outlet, a forming machine provided with molds arranged to receive mold charges from said feeder, a valve for actuating said shear, spaced members for operating said valve, means associated with said forming machine for successively engaging said spaced members, and means for changing the relative spacing of said members and for thereby changing the interval between the reciprocating movement of said shear.

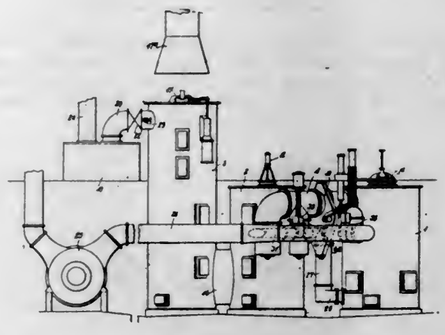
1,784,764. GAS RANGE. ARTHUR STOCKSTROM and ALMER H. BRODBECK, St. Louis, Mo., assignors to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed Aug. 22, 1929. Serial No. 387,730. 9 Claims. (Cl. 126—37.)



1. A range having a top portion, a swinging cover therefor, the rear and lower end of the swinging cover adapted to move vertically and the lower front end to move horizontally, for the purpose described.

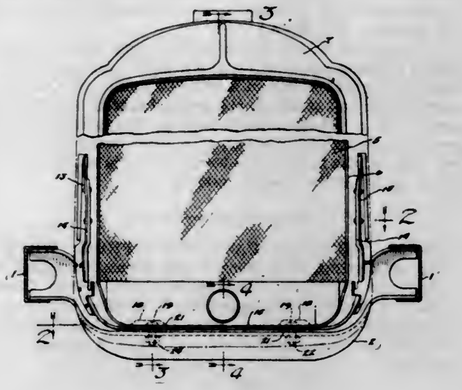
1,784,765. WATER-GAS PROCESS. THOMAS W. STONE, Fort Wayne, Ind., assignor to The Western Gas Construction Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Nov. 22, 1923. Serial No. 676,308. 6 Claims. (Cl. 48—208.)

2. In making water gas the method which consists in: introducing a blast of air through the fuel bed of a generator to bring the fuel bed to incandescence and to produce air blast gases and passing the air blast gases successively in separate parallel streams through a single shell carburetter and a single shell superheater and burning the air blast bases therein; shutting off said air blast and introducing a flow of steam successively through the superheater, carburetter and incandescent fuel bed of said generator, to generate water gas in said generator, and passing the water



gas generated back through said carburetter and superheater to a gas receiver; and, before again introducing a blast of air, then reversing the direction of flow of steam through said elements and introducing a flow of steam successively through the superheater, carburetter and fuel bed of the generator to generate water gas before again bringing the fuel bed to incandescence, and passing the water gas generated back through said carburetter and superheater to a gas receiver.

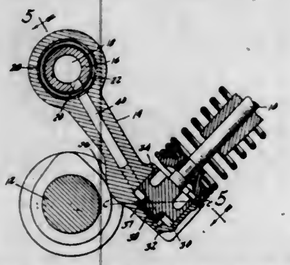
1,784,766. RADIATOR MOUNTING. SAMUEL A. STRANAHAN, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 23, 1928. Serial No. 287,836. 2 Claims. (Cl. 180—68.)



1. In a motor vehicle, an adjustable mounting for rigidly securing a radiator on a chassis frame, in proper relation with its associated parts, including in combination with a chassis frame member having an elongated slot and a radiator including a shell and a radiating unit having an assembly retainer strap extending in part across the underside of the bottom tank of the unit, of a supporting bar interposed between said retainer strap and the chassis frame member and secured to the shell, said bar and strap having therein registering keyhole slots extending angularly in relation with the elongated slot of the frame member,

a depression in the bottom wall of the lower tank directly over and extending thruout the length of the keyhole slots to provide clearance space thereabove, a headed fastening stud, whose head is adapted for insertion upwardly thru the enlarged portions of the keyhole slots into said clearance space, and whose shank is slidable in the angularly disposed slots to permit adjustment of radiator position, and a nut threaded on the lower end of the shank to clamp the parts in adjusted position.

1,784,767. HYDRAULIC VALVE MECHANISM. CALEB E. SUMMERS, Pontiac, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Aug. 24, 1928. Serial No. 301,764. 18 Claims. (Cl. 123—90.)



1. The combination of a pivoted actuating member, an actuated member, and an hydraulic slack adjuster carried by the pivoted member and adapted to engage one of said members for taking up slack in the system, means for supplying the slack adjusting device with oil through the pivot of said actuating member and a cut off valve in said pivot for cutting off communication with the reservoir during the actuating stroke of the mechanism.

1,784,768. PROCESS FOR PRINTING WOOL WITH ESTER SALTS OF LEUCO COMPOUNDS OF VAT DYESTUFFS. WALTER TAUSSIG, Frankfort-on-the-Main, Germany, assignor to Durand & Huguenin, Basel, Switzerland, a Corporation of Switzerland. Filed Oct. 12, 1928, Serial No. 312,209, and in Germany Oct. 13, 1927. 4 Claims. (Cl. 8—5.)

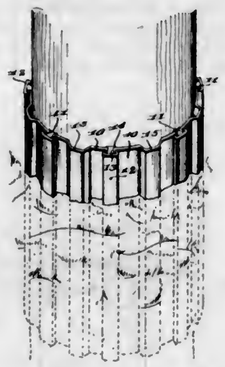
1. A process which comprises printing woolen fabrics with a printing paste containing a thickening agent and a solution of an ester-salt of a leuco compound of a vat dyestuff, drying and steaming the printed fabrics and treating them with a strong mineral acid in combination with a persulfate as oxidizing agent, this latter being admixed at any stage of the process and being incapable of staining the white parts of the woolen fabrics.

1,784,769. MOLD FOR CASTING SULPHUR. WILHELM VON DIETERICH, Honningen-on-the-Rhine, Germany, assignor to the Firm Rhenania-Kunheim Verein Chemischen Fabriken Aktiengesellschaft, Berlin, Germany, a Corporation of Germany. Filed July 23, 1926, Serial No. 124,523, and in Germany Feb. 1, 1926. 3 Claims. (Cl. 18—47.)



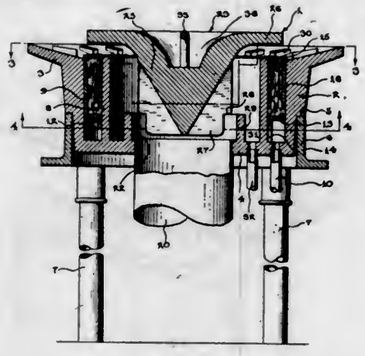
1. A metallic mold for casting sulphur comprising a tube made of material resistant to sulphur, said tube having a normally closed slit running the length of the tube, whereby the tube diameter may be increased, and means spaced from the slit to hold the edges of the slit of the tube close together.

1,784,770. METAL REENFORCEMENT FOR TIMBER POLES. ANDREW J. WILEY, Boise, Idaho. Filed Jan. 29, 1930. Serial No. 424,292. 2 Claims. (Cl. 20—100.)



1. In a metal reenforcement for fixing timber poles in the ground, a tubular body formed to provide a plurality of separable sections, securing lugs having the form of acutely angled out-turned flanges formed along the opposite longitudinal edges of each of the said sections, a chenneled member adapted to be interlocked with the lugs at the edges of adjacent sections to form a completed body, said sections having freedom of motion longitudinally of the body with respect to adjacent sections and elongated locking elements having substantially the same cross sectional shape of the channel in said member and engageable through the latter to clamp said lugs between the same and the opposite side walls of the channel, said body being employed to reenforce the strength of a timber pole weakened through decay at the ground line by firmly grasping the sound part of the pole both above and below the zone of decay.

1,784,771. OIL BURNER. MYRON W. WOOD, Sioux City, Iowa. Filed May 3, 1927. Serial No. 188,457. 2 Claims. (Cl. 158—96.)



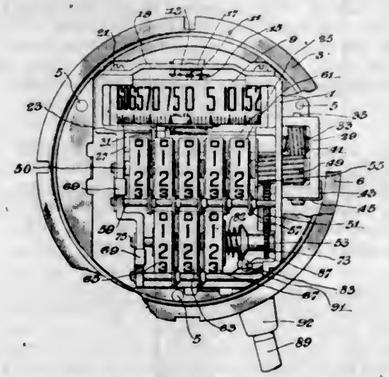
1. An oil burner comprising a bowl shaped body having an outwardly and upwardly flaring flange at its upper end and provided with a central opening in its bottom, an upstanding flange surrounding said opening, an inner vertical wall extending upwardly from the bottom of said body and spaced laterally from the inner face of the side walls of said body to form a wick receiving chamber, an air supply pipe connected to discharge into said burner through said central opening and a combined air and flame deflector having laterally spaced depending vanes resting on the flange surrounding the central opening of said body to support the deflector and to prevent swirling of the air currents.

1,784,772. GRATE KEY. GEORGE ZIEGLER, Bogota, N. J. Filed Jan. 11, 1928. Serial No. 245,981. 3 Claims. (Cl. 110—40.)



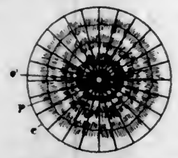
1. A grate key, comprising a body having a top structure formed with a flat face, said top structure having spaced parallel transverse grooves in its face and curved inclined grooves in one side merging into said parallel grooves, said inclined grooves extending from the top to the bottom of said top structure, the depth of said curved inclined grooves being less than half of the thickness of said top structure.

1,784,773. ODOMETER. JOSEPH ZUBATY, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Mar. 11, 1926. Serial No. 94,097. 3 Claims. (Cl. 235—144.)



1. A reset mechanism for figure wheels or the like comprising a shaft, a wheel thereon, driving means therefor, means slidable on the shaft in constant driving engagement with the wheel and having a gear movable into and out of driving relation with the driving means, means for moving said slidable means including a reset spindle having a gear element thereon engaging, when in one position, the gear of the slidable means.

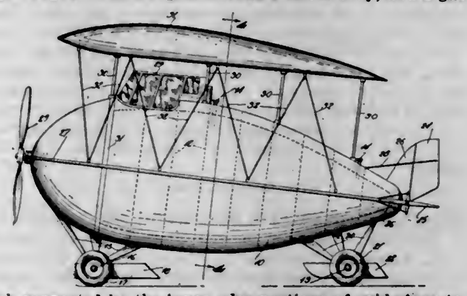
1,784,774. ELASTICALLY-DEFORMABLE PARACHUTE. LUIGI AVORIO, Rome, Italy. Filed Jan. 3, 1928, Serial No. 244,293, and in Italy Aug. 5, 1927. 4 Claims. (Cl. 244—21.)



1. In parachutes of the class comprising a cap with holes elastically constrained so as to produce the variation of their size, the combination, with a cap having holes of elastically variable size, of elastic means suitably distributed over the surface of the cap and adapted to secure the stretching and the shrinking of the cap itself in accordance with the variations of the air pressure encountered thereby.

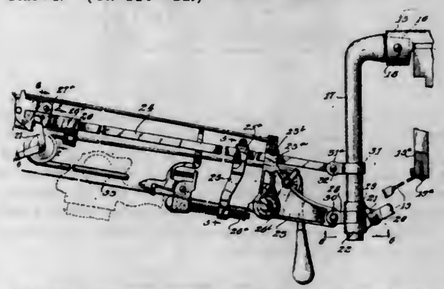
1,784,775. AIRSHIP. LOUIS BALAZINSKI, East Port Chester, Conn. Filed Oct. 3, 1929. Serial No. 397,050. 9 Claims. (Cl. 244—5.)

1. In an air ship, an ovate hollow body, an exterior platform on the equatorial zone of said body constituting stiffening means against lateral deformation, annular rings extending around the inner surface of the body wall at right angles to the longitudinal axis of the body, and a gas



tank supported by the inner edge portions of said rings to hold flotation gas, said rings dividing the space between the body wall and gas tank into storage compartments.

1,784,776. CASH CARRIER. JAMES L. BALDWIN, Chicago, Ill. Filed Aug. 6, 1930. Serial No. 473,434. 15 Claims. (Cl. 186—11.)



1. A cash carrier comprising a support, a sending unit for the cash receptacle extending therefrom, a bracing bar leading from the support, and sending unit elements depending from the bracing bar and perforated to fit the same, said bracing bar being of non-circular cross-section, and the form of said perforations being to correspond.

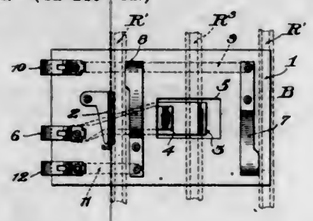
1,784,777. SHEET PILING. CAMILLE BEAUJEAN, Brussels, Belgium, assignor to Société Anonyme D'Ougrée Marikaye, Ougree, Belgium. Filed Oct. 4, 1928, Serial No. 310,403, and in France Feb. 29, 1928. 2 Claims. (Cl. 61—60.)



1. Sheet piling formed by the juxtaposition of Z-shaped members each formed by rigidly connecting before hammer-

ing two U-members arranged alternately at each side of the axis of the sheet piling and the two opposing arms of which are in the extension of each other, flat members arranged between said opposing arms and in alignment therewith, H-shaped members having trapezoidal cavities or hollowed out portions connecting said arms and the flat members, and an H-member with trapezoidal hollows arranged at the end of one of the two free arms; and flat members and H-members similar to those above described assembled rigidly before hammering, arranged in alignment between the arms of the consecutive Z-members and connecting these.

1,784,778. AUTOMATIC SIGNALING MEANS FOR TOY TRACKS. HARRY S. BECKER, River Forest, Ill., assignor to American Flyer Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 14, 1928. Serial No. 261,637. 3 Claims. (Cl. 246—81.)



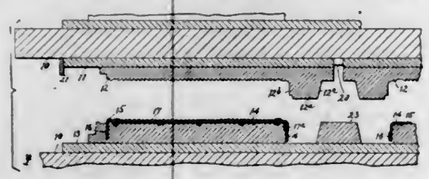
1. Railway signaling means comprising, in combination with the rails and a source of current, a contact device located adjacent to each rail adapted to be engaged by a wheel passing over the rail to close a signal circuit, said contact devices being disalined laterally with respect to one another to secure a maximum number of circuit closings by a minimum amount of travel of a vehicle over the rails at any given rate of speed.

1,784,779. FOLDING TOP. JOSEPH BOCA, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Oct. 31, 1927. Serial No. 230,027. 7 Claims. (Cl. 296—112.)



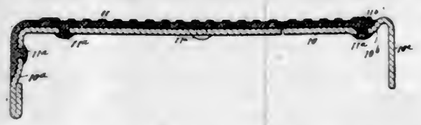
1. In a top of the class described, a main supporting bow pivoted to the vehicle, a secondary bow pivoted to the main bow, a third bow, a link pivoted to the secondary bow and a third bow, and a second link pivotally secured on one face of the secondary bow and on the opposite face of the third bow to serve as a stop to limit the pivotal movement of the said bows.

1,784,780. VULCANIZING PRESS. BUDD BRONSON, Lakewood, Ohio, assignor to The Ohio Rubber Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 1, 1927. Serial No. 230,272. 9 Claims. (Cl. 18—16.)



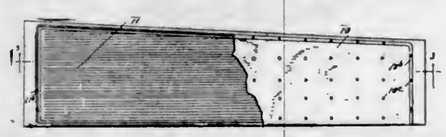
1. A press for molding and securing plastic material onto the top and side of a metal body comprising upper and lower mold members, one being held in fixed position on a platen of the press and adapted to receive the metal body and the other being laterally movable and adapted to be so moved in the closing operation as to engage and press between it and the other member the top and side of the metal body and secure the plastic material thereto.

1,784,781. COMPOSITE STEEL AND RUBBER ARTICLE. BUDD BRONSON, Lakewood, Ohio, assignor to The Ohio Rubber Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 22, 1927. Serial No. 241,771. 6 Claims. (Cl. 280—169.)



1. A running board for motor vehicles comprising a sheet metal running board body flanged downwardly at its front margin and formed with a depression which is carried down into the front flange, and a covering of rubber molded and vulcanized to the body and filling the depression.

1,784,782. COMPOSITE RUNNING BOARD. BUDD BRONSON, Cleveland, Ohio, assignor to The Ohio Rubber Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed Dec. 22, 1927, Serial No. 241,771. Divided and this application filed Oct. 13, 1930. Serial No. 488,517. 2 Claims. (Cl. 280—169.)



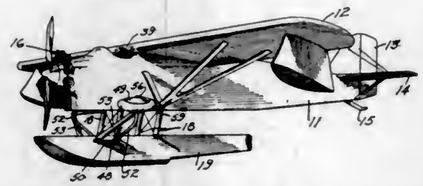
1. A running board having a sheet metal body formed of hot-passed steel with surface roughness inherent to hot-passed steel and having a covering of rubber molded and vulcanized to the body and uniformly attached thereto by its adherence with said roughened surface of the metal.

1,784,783. VENTILATING DEVICE. ALBERT CAUCHEMONT, Paris, France. Filed Feb. 28, 1929, Serial No. 343,294, and in France Mar. 7, 1928. 2 Claims. (Cl. 98—66.)



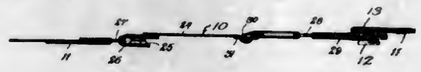
1. A ventilating device of the type described comprising an outer set of elements disposed in cage formation each of said elements having a flange at each end thereof, said flanges being so disposed that the opposite edges of two adjacent elements form an outwardly converging passage for the ingress of the wind, a second set of elements within the first set and concentrically disposed with reference thereto, each element of said second set comprising two members set at an angle to each other, said angle diverging outwardly and the contiguous members of two adjacent elements of said second set being so placed as to form an outwardly converging passage which opens behind an element of said first set, whereby the egress of air through the last named passage is made easier and may take place from the right and from the left.

1,784,784. AMPHIBIAN PLANE. DONALD WILLS DOUGLAS, Santa Monica, Calif., assignor, by mesne assignments, to Douglas Aircraft Company, Inc., Los Angeles, Calif., a Corporation of Delaware. Filed Apr. 23, 1927. Serial No. 186,006. 19 Claims. (Cl. 244—2.)



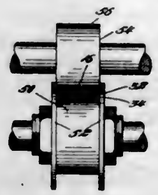
1. In an airplane the combination of: a main structure; a water landing-gear movable relative to said main structure; a land landing-gar movable relative to said main structure, said land and said water landing-gears being relatively movable; and means for moving said water landing-gear into alighting position and said land landing-gear from alighting position and vice versa.

1,784,785. CONNECTER DEVICE FOR CUFFS OF KNICKERS. CHARLES DOUGLIS, Lawrence, N. Y. Filed Oct. 16, 1929. Serial No. 400,046. 1 Claim. (Cl. 2—228.)



In combination, a garment provided with a cuff having free ends, one end of which is provided with a link member, an attaching element carried by the opposite cuff end, a connecting device for connecting the ends of said cuff, the said connecting device comprising an end member engageable with the attaching element carried by the one cuff end, a link connected to said end member, an elastic member having one end looped through the last mentioned link, an adjustable element secured to the free end of said loop and mounted to slide on the said elastic member to vary the length of the said loop, a looped member secured to the opposite end of said elastic member and engaging the link carried by the one cuff end and detachable connecting means carried by the last mentioned looped member for holding the loop in closed position.

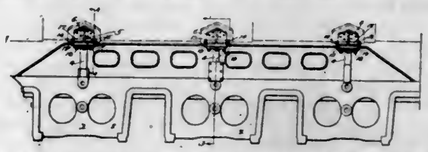
1,784,786. WOVEN WIRE AND METHOD OF ITS MANUFACTURE. MOISE H. DURAND, Attleboro, Mass., assignor to Charles D. Blaikie, doing business as Smith, Richardson Co., Attleboro, Mass. Filed June 20, 1928. Serial No. 287,023. 9 Claims. (Cl. 245—10.)



8. The method of making a wire mesh, which comprises the bending over of the edges of the wire mesh and then rolling the wire mesh and bent over edges between rollers to flatten both the bent over portions and the main body of the mesh to a uniform thickness and to form a substantially solid metallic selvage.

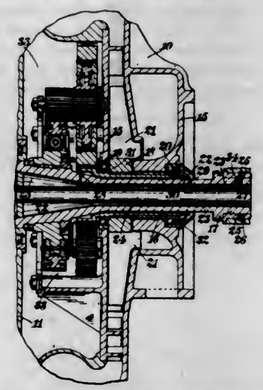
9. A woven wire fabric having an inturned edge, said edge being of substantially the same uniform thickness as the center body portion of the fabric.

1,784,787. LOCOMOTIVE BOILER SUPPORT. EDWARD O. ELLIOTT, Jenkintown, Pa. Filed Dec. 6, 1929. Serial No. 412,211. 5 Claims. (Cl. 105—43.)



2. The combination in a locomotive, of a main frame; a boiler support extending above the main frame having a longitudinal flange; pads arranged at intervals on the flange; and saddles arranged to be secured to a boiler and to slide on the pads.

1,784,788. LUBRICATION OF INTERNAL-COMBUSTION ENGINES. ALFRED HUBERT ROY FEDDEN, Bristol, England, assignor to The Bristol Aeroplane Company Limited, Bristol, England, a British Company. Filed Mar. 8, 1928, Serial No. 260,091, and in Great Britain Apr. 6, 1927. 3 Claims. (Cl. 184—6.)



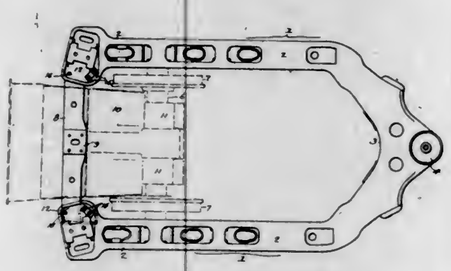
1. Means for lubricating a rotary internal combustion engine equipped with a compressor and having a hollow crank shaft, comprising a sleeve spaced from and sealed within the crank shaft to provide an annular lubricant chamber therein, said crank shaft having a radial opening therein leading to the annular chamber for supplying lubricant thereto, and a centrifugally opened check valve in said opening of the crank shaft, said crank shaft also having radial openings therethrough for supplying the lubricant to parts to be lubricated.

1,784,789. MATRIX FOR TYPOGRAPHICAL MACHINES. ISAO FUJII, Komazawa-Machi, Ebara-Gun, Tokyo-Fu, Japan. Filed Mar. 18, 1929, Serial No. 348,092, and in Japan Mar. 17, 1928. 3 Claims. (Cl. 199—65.)



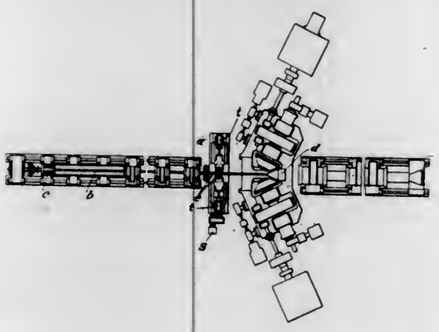
1. A matrix for a typographical machine, including a body, which is substantially polygonal in its general outline and of suitable size and thickness, and provided with a number of characters of various kinds indented thereinto at the polygonal faces, and is formed with a top notch having distributor teeth and a central hole for receiving a distributor and elevator bars and projections positioned between every two consecutive indented characters substantially as described.

1,784,790. ENGINE TRUCK ON WHICH BOOSTERS ARE MOUNTED. HARRY GLAENZER, Philadelphia, Pa. Filed Jan. 25, 1930. Serial No. 423,472. 2 Claims. (Cl. 105—174.)



2. The combination of an integral frame consisting of two side members and a front cross member, the rear ends of each side member being enlarged and having a depending portion with a detachable rear rail enlarged at the ends and having a horizontal and a vertical bearing face; and vertical and horizontal bolts securing each end of the detachable rail to the ends of the side members of the frame.

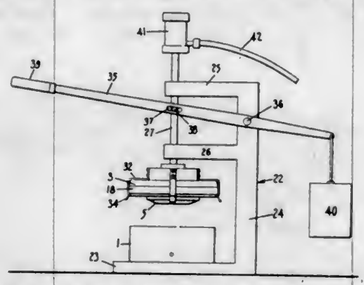
1,784,791. ROLLING MILL. KARL GRUBER, Rheydt, Germany. Filed Jan. 27, 1928, Serial No. 249,882, and in Germany June 14, 1927. 8 Claims. (Cl. 80—13.)



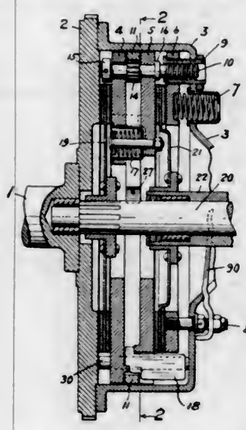
8. Apparatus for expanding and smoothing metal tubes comprising a pair of rolls, a mandrel cooperating with said pair of rolls, a mandrel stem on the entering side of said pair of rolls by which said mandrel is carried and a coupling securing said mandrel stem in place, in combination with means for displacing the mandrel stem toward the exit side of the rolls and returning the same to the coupling, spring actuated locking bolts adapted to lock the mandrel stem to the coupling by engaging a slot in said mandrel stem, and means for disengaging said locking bolts substantially as described.

1,784,792. APPARATUS FOR MAKING INSULATORS. KENT A. HAWLEY, Baltimore, Md., assignor to Locke Insulator Corporation, Baltimore, Md., a Corporation of Maryland. Filed Apr. 18, 1929. Serial No. 354,915. 8 Claims. (Cl. 25—3.)

1. In an apparatus of the character described, a sectional mold adapted to have plastic clay placed therein, a sectional die having a central opening and adapted to cooperate with said mold for shaping the clay and for extruding a portion thereof through the opening, and a second die adapted to engage said extruded portion for shaping the same.

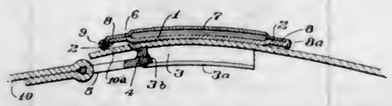


1,784,793. DOUBLE AUTOMATIC CLUTCH. JOHN A. PRIOR, Philadelphia, Pa., assignor of one-half to Samuel P. Howe, Camden, N. J. Filed Aug. 13, 1929. Serial No. 385,493. 6 Claims. (Cl. 74—97.)



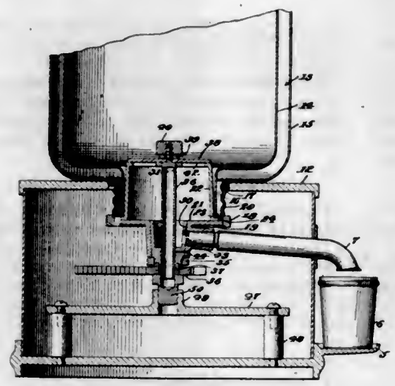
1. A clutch including a driving member, a driven shaft, a driven member directly connected to said driven shaft, a second driven member, gearing interposed between said second driven member and said driven shaft, centrifugal means for shifting engagement tebween said second driven member and said driving member to engagement between said driving member and said driven member at a higher speed of rotation than the shift in the opposite direction.

1,784,794. BELT BUCKLE. ARTHUR ROSENBERG, Boston, Mass., assignor to A. Rosenberg & Co., Boston, Mass., a copartnership composed of Arthur Rosenberg and Philip Rosenberg. Filed Dec. 26, 1929. Serial No. 416,322. 1 Claim. (Cl. 24—163.)



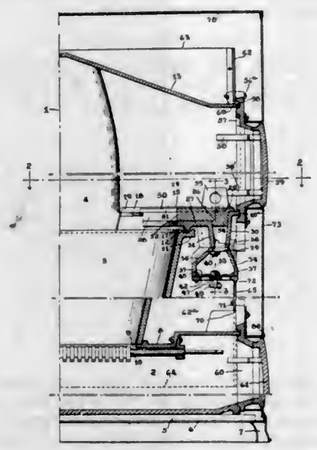
A belt buckle embracing in its construction a front plate provided with inwardly inclined lateral flanges provided with inturned ledges forming a fulcral support for a belt-attaching and securing bail, said front plate having its interior portion depressed below the level of its marginal portions to form a shallow pocket, a cover hinged at one end to the front plate and having separate inwardly turned side flanges adapted to engage and grip over the overhanging marginal portions of the front plate, said cover being also provided at its free end with an inwardly projecting lip adapted to engage the adjacent end edge of the front plate.

1,784,795. LIQUID-DISPENSING DEVICE. ERIC K. SKONBERG, Brooklyn, N. Y., assignor to Therm-O-Mat Dispenser, Inc., a Corporation of New York. Filed May 26, 1930. Serial No. 455,589. 5 Claims. (Cl. 221—112.)



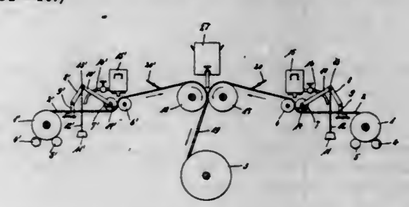
1. In a liquid dispensing device, a main liquid reservoir, a measuring container located within said reservoir, one end of said container having a liquid inlet opening, a valve associated with said container end for controlling said opening, a hollow tubular member extending through said container and engaging said valve, said tubular member provided with an air outlet at one end opening into said container end and a liquid outlet associated with the opposite end of said container.

1,784,796. HEATING APPARATUS. MAX M. SUPPES, Elyria, Ohio, assignor to The Fox Furnace Company, Elyria, Ohio, a Corporation of Ohio. Filed Mar. 15, 1929. Serial No. 347,201. 13 Claims. (Cl. 126—67.)



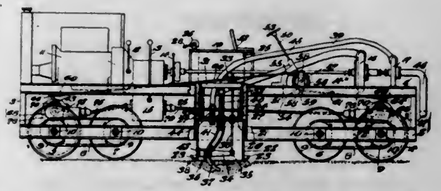
1. A heating apparatus comprising a heat-emitting element including a fire-pot, a combustion chamber and an ash-receptacle, a casing surrounding said element and spaced therefrom to form a vertical air passage, said casing having an opening, a fuel-charging throat having an inlet registering with said opening in the casing and connected to said fire-pot, a secondary air inlet through the wall of said fuel-charging throat, and a casing having an internal air preheating chamber communicating with said secondary air inlet and having an inlet communicating with the space between said heating element and said first-named casing.

1,784,797. METHOD OF COATING AND IMPREGNATING WEBS OF FLEXIBLE MATERIAL. EMIL WEINHEIM, New York, N. Y. Filed June 17, 1929, Serial No. 371,389, and in Germany July 13, 1925. 3 Claims. (Cl. 154—40.)



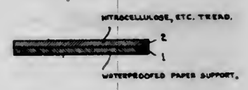
1. The method of making webs from several layers comprising treating each layer separately with a compound, combining the several layers into a single web, and applying a compound between said layers.

1,784,798. FILTER-SAND WASHING MACHINE. MORRIS L. BAYARD and MINOR HARVEY, Philadelphia, Pa. Filed May 2, 1928. Serial No. 274,376. 3 Claims. (Cl. 210—128.)



1. In a filter sand washing machine of the character stated, a chassis, front and rear buoyant driving wheels, actuating means therefor, front and rear buoyant driven wheels, driving connections common to said driving and driven wheels, and means positioned intermediate said front and rear wheels for agitating and washing said sand.

1,784,799. FLOOR-COVERING MATERIAL AND PROCESS OF MAKING SAME. CARLETON ELLIS, Montclair, N. J., assignor to Ellis-Foster Company, a Corporation of New Jersey. Filed Nov. 23, 1926. Serial No. 150,387. 9 Claims. (Cl. 91—68.)



4. The process of making floor coverings which comprises sheeting onto wax-containing paper a plastic adherent tread layer comprising nitrocellulose, plasticizer and filler.

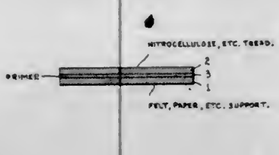
5. A reversible floor covering comprising a backing carrying a cushioning tread of wax-containing nitrocellulose on at least one face of said backing.

1,784,800. FLOOR COVERING AND PROCESS OF MAKING SAME. CARLETON ELLIS, Montclair, N. J., assignor to Ellis-Foster Company, a Corporation of New Jersey. Filed Nov. 19, 1926. Serial No. 149,528. 18 Claims. (Cl. 91—70.)



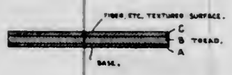
1. The process of making floor covering which comprises sheeting on a web of saturated felt saturated with a waterproofing agent of the asphalt type at least one thread layer of a composition comprising nitrocellulose, plasticizer, a volatile solvent mixture, wax and a filler; and drying at a temperature above that at which wax dissolves freely in said volatile solvent mixture.

1,784,801. FLOOR COVERING AND METHOD OF MAKING SAME. CARLETON ELLIS, Montclair, N. J., assignor to Ellis-Foster Company, a Corporation of New Jersey. Filed Dec. 2, 1926. Serial No. 152,310. 9 Claims. (Cl. 91—70.)



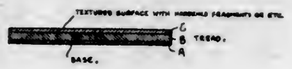
2. A non-oily waterproofing agent saturated paper support, carrying on the tread side an adherent figured coating comprising pigment, nitrocellulose and a small proportion of wax.

1,784,802. TEXTURED FLOOR COVERING AND PROCESS OF MAKING SAME. CARLETON ELLIS, Montclair, N. J., assignor to Ellis-Foster Company, a Corporation of New Jersey. Filed Dec. 2, 1926. Serial No. 152,309. 11 Claims. (Cl. 91—68.)



1. As a floor covering, a flexible sheeting support carrying a sheeted nitrocellulose tread composition of non-uniformly textured surface.

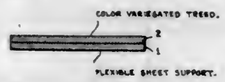
1,784,803. LIGHT-COLORED FLOOR COVERING AND PROCESS OF MAKING SAME. CARLETON ELLIS, Montclair, N. J., assignor to Ellis-Foster Company, a Corporation of New Jersey. Filed Dec. 2, 1926. Serial No. 152,308. 12 Claims. (Cl. 91—68.)



1. As a floor covering a flexible wax-containing paper support carrying a nitrocellulose tread composition of textured white surface.

2. A process of making a floor covering comprising sheeting a light colored nitrocellulose composition upon a substantially waterproofed backing, and rolling thereinto hardened plastic fragments whereby a textured effect is obtained.

1,784,804. VARIEGATED FLOOR COVERING AND METHOD OF MAKING SAME. CARLETON ELLIS, Montclair, N. J., assignor to Ellis-Foster Company, a Corporation of New Jersey. Filed Dec. 3, 1926. Serial No. 152,520. 10 Claims. (Cl. 91—70.)

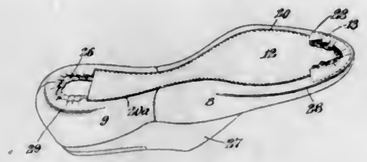


1. As a floor covering a waterproofed flexible sheeting support carrying a sheeted nitrocellulose tread composition of color-variegated surface.

1,784,805. FLOOR RUG AND PROCESS OF MAKING SAME. BORIS N. LOUGOVOY, Montclair, N. J., assignor to Ellis-Foster Company, Montclair, N. J., a Corporation of New Jersey. Filed Dec. 13, 1926. Serial No. 154,655. 21 Claims. (Cl. 91—70.)

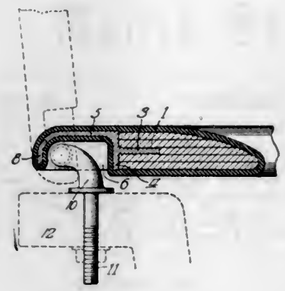
1. A floor covering comprising a highly waxed paper support impregnated with a wax which is substantially free from dark color, such support carrying a nitrocellulose tread composition adherent thereto.

1,784,806. SHOE AND METHOD OF MAKING SAME. ABRAHAM L. FRIED, New York, N. Y. Filed Apr. 22, 1929. Serial No. 357,028. 6 Claims. (Cl. 12—142.)



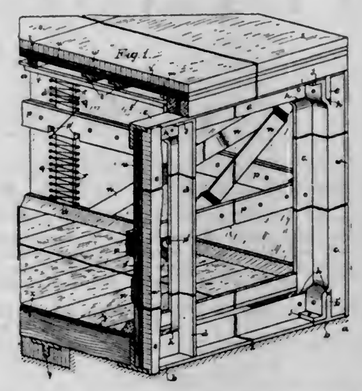
1. The process of forming a shoe comprising forming the heel and toe portions of the upper and lining the same, sewing a sole member thereto throughout a portion of their length and attaching thereto a combined shank stiffener and counter member to form an upper unit, positioning said unit on a last, and then fastening unattached portions of the upper to the sole member and the combined shank stiffener and counter member.

1,784,807. TOILET SEAT. BYRON C. BOOTH, Muskegon Heights, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Nov. 11, 1927, Serial No. 232,627. Renewed Sept. 12, 1930. 8 Claims. (Cl. 4—237.)



1. The combination of a toilet seat having a cavity in the rear portion thereof closed on all sides except at the bottom of the seat, and a standard extending into said cavity and supporting said seat for pivotal movement.

1,784,808. BUILDING STRUCTURE. ALFRED LEYLAND, Taddington, near Buxton, England. Filed May 26, 1927. Serial No. 194,335. 3 Claims. (Cl. 189—1.)



1. In a metal framework for buildings, frame members adapted to be erected at an angle to each other, one of said members having an upstanding portion, the other member being partly split and bent at its end to receive said portion, and a flange on said bent end secured to said first named member.

CARNEGIE LIBRARY OF ATLANTA

Patents Nos. 1,784,809 to 1,785,724

THE OFFICIAL GAZETTE

OF THE

United States Patent Office

Vol. 401—No. 3 TUESDAY, DECEMBER 16, 1930 Price—$10 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscription, $10.00 per annum; including annual index, $11.50; single numbers, 25 cents each.
PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.
CIRCULARS OF GENERAL INFORMATION concerning PATENTS or concerning TRADE-MARKS, PRINTS, and LABELS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

CONTENTS

	Page
Issue of December 16, 1930	467
Adverse Decisions in Interference	467
Decisions	467
Drawings	467
Rule 72	467
Interference Defined	467
Applications Under Examination	468
Commissioner's Decision—	
Ex parte Kelvinator Corporation	469
Decisions of the U. S. Courts—	
In re Dunn	469
In re Powell	470
Patent Suits	471
Disclaimers	472
Changes in Classification	473
Trade-Marks Published (200 Applications)	475
Trade-Mark Registrations Granted	500
Trade-Mark Registrations Renewed	510
Labels	511
Prints	511
Reissues	513
Designs	515
Patents Granted	533

Issue of December 16, 1930

Trade-Marks	224	No. 278,279	to No. 278,502,	inclusive.
T. M. Renewals	32			
Labels	21	No. 38,373	to No. 38,393,	inclusive.
Prints	10	No. 12,856	to No. 12,865,	inclusive.
Reissues	7	No. 17,901	to No. 17,907,	inclusive.
Designs	92	No. 82,778	to No. 82,869,	inclusive.
Patents	916	No. 1,784,809	to No. 1,785,724,	inclusive.
Total	1,302			

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,568,692, A. A. Pollock, Dynamo-electric machine, decided October 2, 1930, claim 1.

Pat. 1,626,431, J. A. Seede, Electric furnace, decided October 9, 1930, claims 4, 5, and 6.

Pat. 1,747,224, W. W. Carpenter, Telephone-exchange system, decided November 22, 1930, claims 1, 2, 3, 4, 5, and 7.

Design Pat. 71,531, W. R. Root, Bottle, decided September 27, 1930.

Decisions

Decision leaflets of the Official Gazette are sold as a separate publication—

Single numbers ..... 5 cents
Subscription per year $2.50

Drawings

Rule 38

38. When there are drawings, the description will refer to the different views by figures and to the different parts by letters or numerals (preferably the latter).

Rule 52—Extract

(f) The different views should be consecutively numbered. Letters and figures of reference must be carefully formed. They should, if possible, measure at least one-eighth of an inch in height, so that they may bear reduction to one twenty-fourth of an inch; and they may be much larger when there is sufficient room. They must be so placed in the close and complex parts of drawings as not to interfere with a thorough comprehension of the same, and therefore should rarely cross or mingle with the lines. When necessarily grouped around a certain part, they should be placed at a little distance, where there is available space, and connected by short lines with the parts to which they refer and by short broken lines when the number or letter refers to parts shown in dotted lines. They should not be placed upon shaded surfaces, and when it is difficult to avoid this, a blank space must be left in the shading where the letter occurs, so that it shall appear perfectly distinct and separate from the work. If the same part of an invention appear in more than one view of the drawing it must always be represented by the same character, and the same character must never be used to designate different parts.

It is suggested that numerals or letters be used without exponents.

Rule 72

Rule 72. After the completion of the application the Office will not return the specification for any purpose whatever. If applicants have not preserved copies of the papers which they wish to amend, the Office will furnish them on the usual terms.

The drawing may be withdrawn only for such corrections as cannot be made by the Office; but a drawing cannot be withdrawn unless a photographic copy has been filed and accepted by the Examiner as a part of the application. Permissible changes in the construction shown in any drawing may be made only by the Office and after an approved photographic copy has been filed. Sketches filed to show proposed changes in construction must be in permanent ink. (See Rule 30.) Substitute drawings will not be admitted in any case unless required by the Office.

Interference Defined

Rule 93. An interference is a proceeding instituted for the purpose of determining the question of priority of invention between two or more parties claiming substantially the same patentable invention. In order to ascertain whether any question of priority arises the Commissioner may call upon any junior applicant to state in writing the date when he conceived the invention under consideration. All statements filed in compliance with this rule will be returned to the parties filing them. In case the applicant makes no reply within the time specified, not less than ten days, the Commissioner will proceed upon the assumption that the said date is the date of the oath attached to the application. The fact that one of the parties has already obtained a patent will not prevent an interference, for, although the Commissioner has no power to cancel a patent, he may grant another patent for the same invention to a person who proves to be the prior inventor.

Condition of Applications Under Examination at Close of Business December 5, 1930

(Total number of applications awaiting action, excluding Trade-Mark Division, 109,125; Trade-Mark Division, 1,291. Oldest new case, Feb. 10, 1930; oldest amended, Feb. 9, 1930.)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended application awaiting office action	No. of applications awaiting action
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	Apr. 21	May 5	1,071
126	2. HADEN, C. F., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Velocipedes.	Apr. 7	Apr. 6	1,744
331	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	Apr. 18	Sept. 6	1,221
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	Apr. 30	Apr. 30	1,244
108*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	Apr. 15	Apr. 16	1,249
318	6. LEWERS, A. M., Carbon Chemistry	Mar. 7	Mar. 17	2,405
106	7. JARBOE, C. G., Optics; Photography	Mar. 5	Mar. 5	2,524
133	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Apr. 7	Apr. 9	1,662
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	May 9	May 8	1,549
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	Apr. 28	May 7	1,449
148*	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	May 14	May 26	960
380	12. HENRY, C. C., Machine Elements	Apr. 12	Apr. 15	1,525
154*	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Apr. 29	Apr. 26	1,347
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working; Assembling, and Blanks and Processes.	Apr. 7	May 13	1,387
329	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Mar. 3	Mar. 4	2,899
242*	16. SPENCER, C. J., Telegraphy; Telephony	Apr. 26	May 7	1,164
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Mar 10	Apr. 1	1,624
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Apr. 24	Apr. 22	1,447
236	19. KENNEDY, A. R., Furnaces; Heating Systems: Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Mar. 8	Mar. 5	2,543
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking	Apr. 9	Apr. 18	1,376
212	21. THOMPSON, T. J., Textiles; Cloth Finishing	Apr. 28	June 2	888
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Apr. 14	Apr. 29	1,515
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Mar. 15	Mar. 22	1,121
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Mar. 24	Apr. 22	1,068
202*	25. BLAKELEY, C. F., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Apr. 10	Apr. 9	1,643
228*	26. HODGES, J. S., Electricity, Generation; Motive Power	Apr. 7	Apr. 10	1,144
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Apr. 7	Apr. 7	1,355
225	28. BENSON, A. R., Internal-Combustion Engines	Mar. 11	Mar. 13	2,111
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	July 7	July 11	580
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	May 5	Sept. 10	989
312	31. HOLMES, W. N., Distillation; Gas, Heating and Illuminating; Mineral Oils	Feb. 10	Feb. 19	2,813
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	June 7	June 9	1,385
152	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	May 14	May 21	2,663
304	34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	May 31	June 4	944
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	July 21	July 27	1,252
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	Apr. 2	Apr. 8	2,273
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Mar. 6	Mar. 12	2,006
145	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Mar. 17	Mar. 17	1,147
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Apr. 5	Apr. 5	1,766
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	Mar. 10	Apr. 21	3,330
125	41. WHITNEY, M. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	May 6	Mar. 13	1,119
223*	42. CUTTING, H. O., Electric Signaling	Apr. 7	Apr. 10	1,686
124*	43. NASH, P. N., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Apr. 5	Apr. 5	1,778
253	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	Mar. 19	Mar. 24	2,215
379	45. GILES A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	Mar. 5	Mar. 6	2,446
233	46. TAYLOR, M., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Apr. 18	Apr. 21	1,338
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	Apr. 7	Apr. 29	2,356
212*	48. ROEPKE, O. B., Electricity, General Applications	Apr. 5	Apr. 8	1,276
239	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	May 22	July 19	1,560
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Mar. 5	Mar. 5	2,905
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Mar. 17	Mar. 15	2,436
144	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Mar. 5	May 5	2,006
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	June 25	June 16	1,064
241	54. WAITE, W. E., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Feb. 25	Feb. 27	2,935
102	55. BOWEN, S. T., Bread, Pastry, and Confection Making; Cutlery	Sept. 20	Sept. 22	339
309	Designs	Nov. 10	Nov. 17	382
257*	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Mar. 7	Mar. 19	2,317
270*	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Apr. 7	Apr. 25	1,021
315	58. DOWELL, E. F., Abrading; Typewriting	Mar. 5	Mar. 5	1,589
213*	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Cement and Lime; Hides, Skins, and Leather; Fuel	Apr. 19	Apr. 18	1,820
269	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	Mar. 5	Mar. 5	2,258
245*	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Horology; Time-Controlling Apparatus.	Feb. 17	Feb. 28	2,635
300	62 COCHRAN, W. W., Toys; Amusement Devices; Furniture; Baggage; Package and Article Carriers	Mar. 5	Mar. 5	2,714
163	63. WINKELSTEIN, A. H., Bleaching and Dyeing; Explosive, Pyrotechnic, and Match Compositions; Oils, Fats, and Glue; Preserving; Sugar, Starch, and Carbohydrates.	Mar. 5	Mar. 6	2,545
	Trade-Marks, Labels, and Prints: F. A. RICHMOND, Trade-Marks	Nov. 6	Nov. 21	1,120
	Labels and Prints	Nov. 5	Nov. 21	171

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES

Commissioner's Decision

EX PARTE KELVINATOR CORPORATION

Decided October 21, 1930

TRADE-MARKS—RENEWAL—ENTIRE FEE MUST BE FILED PRIOR TO EXPIRATION OF REGISTRATION.

Where a request to renew a trade-mark registration was filed within the period fixed by the statute but was accompanied by only a portion of the statutory fee, the other portion not being paid until after the expiration of the original term, *Held* that the complete request was not filed within the time fixed by the statute and therefore could not be accepted.

ON PETITION.

Mr. Lewis D. Burch for the applicant.

ROBERTSON, *Commissioner:*

This is a petition that the request for renewal, together with the fee of $10 filed September 5, 1930, be accepted as a complete request for renewal, notwithstanding the fact that the $5 balance of the fee was not paid until October 13, 1930. The term of the registration expired September 6, 1930, and it is alleged that through inadvertence a fee of $10 was sent with the request for renewal of September 5, 1930, instead of $15 as required by the amended statute.

Registrations are in force for a fixed time and expire on a definite date unless renewed (see section 12 of the Trade-Mark Act of 1905). The statute provides for the filing of requests for renewal of certificates of registration "on payment of the renewal fees required by this act" and that statute, as amended April 11, 1930, provides that the fee "on filing" an application for renewal shall be $15. A payment of only a portion of the fee prior to the expiration of the original term of registration can not be regarded as a compliance with the statute.

Where the time for taking an action is fixed by statute, including the payment of the fee, such action can not be regarded as complete unless all the parts, including the entire fee, have been filed in this Office within such period (see *Plymouth Cordage Co.* v. *Hoover & Allison Co.*, 12 T. M. Reporter 269; *Ex parte Regal Shoe Co.*, 385 O. G. 270).

The petition is denied.

U. S. Court of Customs and Patent Appeals

IN RE DUNN

No. 2,333. Decided May 28, 1930

[40 F.(2d) 767]

PATENTABILITY—METHOD OF CLEANING WELLS.

A claim for a method of cleaning wells *Held* patentable over the prior art.

LENROOT, *J.*, dissenting.

APPEAL from the Patent Office. Reversed.

Mr. Harry F. Riley and *Mr. Arthur C. Browne* for Dunn.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

GRAHAM, *P. J.:*

This is an appeal from the decision of the Board of Appeals affirming the decision of the Examiner in rejecting claim 7 of appellant's application for a patent, Serial No. 109,702, filed May 17, 1926. Other claims were involved, but by allowance and elimination the only one left for our consideration is, as has been said, claim 7. This claim is as follows:

7. The method of cleaning wells comprising supplying a charge of water into detritus in the well, loosening the detritus and commingling the detritus with the water by means of air delivered through the water into the detritus from above the detritus, and propelling the water and detritus from the well by means of a following volume of air under pressure.

Appellant has invented a method of cleaning the detritus out of the bottom of an oil well, which has been shot, which he claims is different from any method heretofore practiced, and which produces new and useful results. In this process he inserts tubing into the casing of said well downward to a point where it is above and clear of the said detritus. He then injects water into the cavity containing the detritus until it rises above the end of the tubing. This being done, he then discharges compressed air into and through this tubing, into the water above the detritus. He claims that by discharging the air in this manner into the water, the detritus is stirred up, mixed with the water, and more readily forced upward around the tubing and out of the well through the surrounding casing. He claims the art heretofore has been to insert the tubing into the detritus and then inject the compressed air, and this, he claims, will not produce the same result.

Both the Examiner and the Board reject claim 7 on reference to "Richards' Compressed Air Practice—article on pages 293 and 294, entitled 'The air blast foundation sinking'—McGraw Hill Book Co., New York, 1913."

It is agreed in the briefs of both the solicitor of the Patent Office and counsel for appellant, that the portion of Richards' which is held to be a reference, is as follows:

The Air Blast in Foundation Sinking.—A contracting company in New York city is making a specialty of the use of the air blast as an aid in sinking building foundations. In this work the foundations are sunk to rock which is overlaid by varying depths of gravel or other compacted material. A recent undertaking was the construction of the foundations for a large twelve-story building where the rock was below the surface at depths ranging from 17 to 50 ft. When completed the foundation consists of a series of reinforced concrete structures, these being formed of groups of 12-in. steel pipe filled with concrete among which are distributed vertical reenforcing rods of steel.

The pipes used are in lengths of 12 or 14 ft. and in the deepest parts three or four of these are required, one above the other. Each pipe, after being properly located in a vertical position, is driven down a few feet by an air-operated pile-driving hammer, placed upon the top of it.

The pipe having been thus driven a certain distance the hammer is lifted off by a derrick, the pipe is filled with water, a compressed-air pipe is thrust down as far as it will go and also a test rod which is used to ascertain when the solid rock is reached.

On the street close to the work is located a 20-in. steam actuated air-compressor and a large receiver. The compressor is speeded up and when the receiver is filled to the highest working pressure, all the air is suddenly turned into the foundation pipe, blowing out the water, the dirt and the stones.

It will be observed that Richards teaches in this excerpt that the compressed air pipe should be

thrust down into the bottom of the hole made for a building foundation "as far as it will go." If this method were applied to an oil well containing detritus, the compressed air pipe would be sunk through the water and into the detritus as far as it could be forced. Appellant illustrates this very aptly by drawings contained in his brief, and the correctness of these drawings is not controverted by the Patent Office.

The argument is made that the language of the claim "by means of air delivered through the water into the detritus from above the detritus," might well be covered by the Richards' disclosure, for Richards draws his air from a tank in the air "above the detritus." It is manifest, from appellant's drawings and specifications, that this is not the sense in which his disclosure should be understood. He pictures and describes a process in which his air pipe is carried from the surface, down into the water, and discharges its air into the water at a point therein above the surface of the detritus. This is, plainly, his disclosure.

In our judgment, the teaching of Richards is not anticipatory of the method used by the appellant here. The appellant makes a point of the proposition that he does not permit his air pipe to enter the detritus. Richards does. There is, therefore, this essential difference in the process.

The question of whether the process suggested by appellant is operative is not involved here. His claim 7 was not rejected on that ground, but on the reference above stated. Being of the opinion that Richards did not anticipate the appellant in claim 7, it follows, therefore, that the decision of the Board of Appeals should be and is, reversed, and a patent will issue on said claim 7, as requested.

Reversed.

LENROOT, *J.*, dissents.

U. S. Court of Customs and Patent Appeals

IN RE POWELL

No. 2,347. Decided May 28, 1930

[40 F.(2d) 571]

PATENTABILITY—SPRING SHACKLES FOR AUTOMOBILES.

A claim for a spring shackle for automobiles *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. Thomas L. Wilder and *Mr. J. Preston Swecker* for Powell.

Mr. T. A. Hostetler for the Commissioner of Patents.

LENROOT, *J.*:

This is an appeal from a decision of the Board of Appeals of the Patent Office, affirming the decision of the Examiner rejecting claim 2 of appellant's application. Said claim reads as follows:

2. A connecting device of the class described and including a bolt adapted to be passed through the shackle bolt opening of a perch iron, connecting links embodying substantially wide members having circular end portions, tubular members mounted on the bolt, a bolt passing through the shackle bolt opening at the end of a spring, tubular members on the last mentioned bolt, said circular members being fitted over the ends of the bolts, and substantially wide cushioning members on the tubular members and housed by the circular members.

The references cited by the Patent Office are: Lord, 1,452,693, April 24, 1923; Taylor, British, 202, January 15, 1877.

The application discloses spring shackles of the type in use in automobiles to connect the ends of the spring to the frame or to the axle of the car. Relatively wide links are used and rubber bushings serving as substantial cushioning means are employed in both eyes of each of the links around the pivot pin thus cushioning the spring relative to the frame or axle.

The Board of Appeals held that the device disclosed by the Taylor patent is similar to that shown in appellant's application except that the Taylor device has two additional elements viz.: a transverse connector extending from one link to the other in each pair of links, and circular cavities in the ends of the links closed at the outer ends, thus forming cuplike cavities instead of open-end cylindrical cavities as shown by appellant's application. It should be added that applicant shows a third element not shown by Taylor, viz., a sleeve described in the claim as "tubular members mounted on the bolt".

In its decision, the Board of Appeals said:

The brief points out these differences between Taylor's shackle and the one disclosed here and alleges important differences in results, especially in case of twisting stresses on the mechanism. On examination of the claim we are unable to see that these differences in detail are positively in the claim. The clauses of the claim directed to the links merely require "connecting links embodying substantially wide members having circular end portions" and "said circular members being fitted over the ends of the bolts." It is very clear that neither of these expressions exclude a connecter between the links nor require that the circular openings be open at both ends. A cup shaped cavity is a circular opening.

We have however considered the claim in the scope discussed in the brief but still find no patentable novelty set forth in the features involved. A careful study of the case discloses no special mention of any importance in either of these details and we are unable to find any. It is believed on the contrary that Taylor's structure is a matter not only of advantage or preference but of necessity over that shown here. It seems that the open ended links marked 16 and 22 in Figs. 4 and 1 respectively would be likely to creep off of the rubber bushings due to oscillating movement when the car was in use. There is nothing to retain them. This of course would be a dangerous condition and leads to one reason for the closed ends and connecting bolt of Taylor's shackle which prevents such possible accident.

We have further considered the question with the view of possible advantage of an open-ended cavity and unconnected links, but are unable to find any unobvious results. It is possible that unconnected links would be free for more lateral swing and thereby allow more twisting effect between frame and spring, but is this desirable?

As a mechanical feature it is believed that twisting movement of the links is objectionable and should be avoided. No unexpected result is accomplished by omitting the connecter of Taylor's shackle. It is further a matter of common knowledge that the shackles in common use are of both types some of separate links and some with connected links. No invention is found in omitting the shackle or leaving the ends of the cavities open in Taylor's device.

The matter of a sleeve on the pivot pins is independent of the other features and since it is found to be old in the similar shackle of Lord no patentable novelty is found in associating these features.

We are unable to find patentable novelty in the case and the rejection of the claim is clearly warranted. The rejection is affirmed.

All of the expert tribunals of the Patent Office concurred in rejecting the claim because of lack of patentable novelty. In such cases it is incumbent upon one appealing therefrom to make out a clear case of error to obtain a reversal. *In re Ford*, 17 C. C. P. A. —— 38 F. (2d) 525; 396 O. G. 704.

Appellant has not convinced us that the Board of Appeals erred in its conclusion, but on the contrary we are convinced, from a careful examination of the record, that it was right. We are fully in accord with the decision of the Board, above quoted, and further discussion is unnecessary.

The decision of the Board of Appeals of the Patent Office is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

956,239, Watson and Watson, Metal screens; 1,238,854, W. W. Watson, Sheet-metal window screens for railway cars; 1,241,687, same, Weather strips for sheet-metal window screens, D. C., E. D. Mich., S. Div., Doc. 1999, *W. W. Watson et al.* v. *Sheet Steel Products Co.* Dismissed Oct. 20, 1930.

1,025,822, 1,163,253, W. H. Millspaugh, Paper-making machine; 1,163,251, same, Paper making, D. C., S. D. Ala. (Mobile), Doc. E 126, *The Guardian Trust Co. et al.* v. *International Paper Co.* Dismissed without prejudice Jan. 31, 1930.

1,097,673, G. Restucci, Scraper for water-tube boilers, water pipes, etc., D. C., E. D. Mich., S. Div., Doc. 2478, *Grinder Sales Co.* v. *Hutto Engineering Co.* Dismissed for want of prosecution Oct. 21, 1930.

1,128,823, W. R. Stockwell, Liquid heater, D. C., E. D. Mich., S. Div., Doc. 1220, *Weil-McLain Co.* v. *The American Boiler & Foundry Co.* Dismissed by consent Oct. 7, 1930.

1,163,251. (See 1,025,822.) 1,163,253. (See 1,025,822.)

1,170,790, A. M. Weston, Serving device for eating houses, D. C., N. D. Ala. (Birmingham), Doc. 665, *Britling Cafeteria Co., Inc.*, v. *Picadilly Cafeteria Co., Inc.* Decree adjudging infringement Oct. 4, 1930.

1,173,079, E. F. Alexanderson, Selective tuning system; 1,195,632, W. C. White, Circuit connections of electron-discharge apparatus; 1,251,377, A. W. Hull, Method of and means for obtaining constant direct-current potentials; 1,273,627, I. Langmuir, Method of and means for controlling electric currents or potentials; 1,297,188, same, System of amplifying variable currents; 1,728,879, Rice and Kellogg, Amplifying system, filed Oct. 17, 1930, D. C., S. D. N. Y., Doc. E 56/95, *Radio Corp. of America et al.* v. *Pierce Airo Co., Inc.*

1,195,632. (See 1,173,079.) 1,203,190. (See 1,466,701.)

1,220,150, O. J. Williams, Thermometer for the cooling systems of internal-combustion engines, D. C., E. D. Mich., S. Div., Doc. 2423, *The Moto Meter Co., Inc., et al.* v. *Cadillac Motor Car Co.* Dismissed under Equity rule 57 Oct. 16, 1930.

1,231,764, F. Lowenstein, Telephone relay; 1,465,332, H. D. Arnold, Vacuum-tube amplifier; 1,483,273, D. G. Blattner, Circuit for heating the filaments of audions, filed Oct. 17, 1930, D. C., S. D. N. Y., Doc. E 56/94, *Radio Corp. of America et al.* v. *Pierce-Airo Co., Inc.*

1,238,854. (See 956,239.) 1,241,687. (See 956,239.)

1,251,377. (See 1,173,079.) 1,273,627. (See 1,173,079.)

1,297,188. (See 1,173,079.)

1,307,733, A. V. Gullbrog, Lubricating apparatus; 1,307,734, same, Lubricating means, D. C., E. D. Mich., S. Div., Doc. 2227, *The Bassick Mfg. Co.* v. *D. Berlin.* Decree for plaintiff Oct. 16, 1930. Doc. 2229, *The Bassick Mfg. Co.* v. *J. Garelick.* Decree as above Oct. 17, 1930. Doc. 2285, *The Bassick Mfg. Co.* v. *J. E. Norris.* Dismissed without prejudice Oct. 17, 1930.

1,307,734. (See 1,307,733.)

1,309,160, G. A. Thornton, Method and apparatus for marking metal, D. C., N. D. Ohio, W. Div., Doc. E 958, *The National Screw & Mfg. Co.*, v. *R. L. Hinds* (*Luma Electric Equipment Co.*). Dismissed Oct. 21, 1930.

1,313,526, A. Doble, Combustion hearth, D. C., E. D. Mich., S. Div., Doc. 2637, *General Engineering Co. et al.* v. *Silent Automatic Corp.* Dismissed by consent Oct. 21, 1930.

1,316,706, L. S. Gardner, Carburetor, D. C., E. D. Mich., S. Div., Doc. 2811, *Chicago Forging & Mfg. Co.* v. *Holly Carburetor Co.* Dismissed for want of prosecution Oct. 17, 1930.

1,338,489, Clifford and Nichols, Throttle valve, filed Oct. 16, 1930, D. C., S. D. N. Y., Doc. E 56/93, *The Bradford Patents Corp.* v. *Dri-Steam Valve Corp.*

1,342,045, E. A. Hamwi, Apparatus for making pastry forms, D. C., E. D. Mo. (St. Louis), Doc. 8734, *E. A. Hamwi* v. *Crispo Cake Cone Co. et al.* Dismissed without prejudice (notice Oct. 17, 1930).

1,374,352 (*a*), A. J. Borst, jr., Vehicle, D. C., E. D. Mich., S. Div., Doc. 2203, *Fruehauf Trailer Co.* v. *Detroit Trailer Co. et al.* Dismissed by consent Oct. 15, 1930.

1,374,352 (*b*), A. J. Borst, jr., Vehicle; 1,613,728, Schneider and Fruehauf, Trailer; 1,566,616, F. M. Reid, Trailer drawhead, D. C., E. D. Mich., S. Div., Doc. 2202, *Fruehauf Trailer Co.* v. *S. A. Griggs* (*Detroit Trailer & Machine Co.*). Dismissed by consent Oct. 15, 1930.

1,384,258. (See 1,643,653.) 1,391,058. (See 1,643,653.)

1,394,231, C. A. Soans, Listing device; 1,594,112, 1,683,207, F. D. Powell, Flexible index strip, filed Sept. 25, 1930, D. C. Md., Doc. E 1785, *Acme Card System Co.* v. *Remington-Rand Business Service, Inc.*

1,395,604. (See 1,405,773.)

1,403,205, C. A. Snider, Revolving swing, filed Oct. 21, 1930, D. C., N. D. Ala. (Birmingham), Doc. 690, *C. A. Snider* v. *E. E. Fricker, Inc.*

1,405,773, 1,438,229, W. M. Folberth, Windshield cleaner; 1,489,996, 1,661,134, 1,670,680, Folberth and Folberth, same; 1,395,604, S. G. Skinner, same; 1,666,107, 1,693,665, J. X. Phillips, jr., same; 1,554,928, A. B. Thompson, same; 1,674,056, Oishei and Hueber, same; Re. 16,322, H. Hueber, same. D. C., E. D. Mich., S. Div., Doc. 3419, *Trico Products Corp.* v. *Stewart Warner Speedometer Corp.* Dismissed under equity rule 57 Oct. 20, 1930.

1,425,618, J. Vodicka, Curtain fastener, D. C., E. D. Mich., S. Div., Doc. 2124, *Cinch Mfg. Corp.* v. *Carr Fastener Co.* Dismissed by consent Oct. 15, 1930.

1,438,229. (See 1,405,773.)

1,460,716, B. F. Greer, Book-form savings bank, filed Oct. 11, 1930, D. C., N. D. Calif. (San Francisco), Doc. E 2703, *Bankers Utilities Co., Inc., et al.* v. *John Hancock Mutual Life Insurance Co.* Doc. E 2702, *Bankers Utilities Co., Inc., et al.* v. *Prudential Insurance Co. of America.*

1,465,332. (See 1,231,764.)

1,466,701, L. de Forest, Method of and means for controlling electric currents by and in accordance with light variations; 1,693,071, same, Sound-recording attachment for motion-picture cameras; 1,695,414, same, Talking-moving-picture machine; 1,701,911, De Forest and Reynolds, Acoustic apparatus; 1,473,976, E. E. Ries, Sound-recording method; 1,607,480, same, Method of reproducing photographic sound records, filed July 30, 1930; 1,203,190, C. E. Fritts, Recording and reproduction of pulsations or variations in sounds, included by counterclaim Oct. 15, 1930, D. C. Del., Doc. E 808, *General Talking Pictures Corp. et al.* v. *R. C. A. Photophone, Inc.*

1,473,976. (See 1,466,701.)

1,473,976, E. E. Ries, Sound-recording method; 1,607,480, same, Method of reproducing photographic sound records; 1,489,314, L. de Forest, Recording sound; 1,653,155, 1,695,414, same, Talking-moving-picture equipment; 1,693,071, same, Sound-recording attachment for

motion-picture cameras; 1,693,072, same, Means for shielding sound detector and amplifier apparatus; 1,695,415, same, Talking-motion-picture record; 1,716,033, same, Method of producing talking-motion-picture film and apparatus used therefor; 1,764,938, same, Method of producing talking-motion-picture films, filed July 30, 1930, D. C. Del., Doc. E 809, *General Talking Pictures Corp. et al.* v. *R. K. O. Radio Pictures, Inc.*

1,481,796, G. Gussoff, Combination vanity box, filed Oct. 15, 1930, D. C., S. D. N. Y., Doc. E 56/79, *S. Kahn* v. *D. H. Zell, Inc., et al.*

1,483,273. (See 1,231,764.) 1,489,314. (See 1,473,976.)

1,489,996. (See 1,405,773.)

1,494,265, H. D. Martindale, Filler or lining for pulping engines, filed Aug. 20, 1930, D. C., S. D. Ohio (Columbus), Doc. 815, *The Black-Clawson Co.* v. *The Hermann Mfg. Co.*

1,498,359. (See 1,526,714.)

1,522,344, 1,554,928, A. B. Thompson, Automatic windshield cleaner; 1,562,122, J. R. Oishei, Fluid-pressure motor; 1,567,328, same, Motor for windshield cleaner; 1,565,493, Oishei and Horton, Fluid-pressure motor, D. C., E. D. Mich., S. Div., Doc. 2138, *Trico Products Corp.* v. *W. J. Kilpatrick Engineering Co.* Decree for plaintiff Oct. 15, 1930.

1,526,714, 1,563,506, J. O. Luthy, Recovery and utilization of materials of old secondary-battery plates; 1,498,359, H. P. Dodge, Battery-plate building, filed Oct. 22, 1930, D. C., E. D. Mo. (St. Louis), Doc. 9197, *Luthy Research Laboratory* v. *G. Schubkegel.* Doc. 9198, *Luthy Research Laboratory* v. *Scott Ford et al.*

1,526,982, E. W. Hill, Stencil sheet, filed Oct. 18, 1930, D. C., N. D. Ga. (Atlanta), Doc. E 595, *A. B. Dick Co.* v. *The Shallcross Co., Inc., et al.*

1,549,177, J. F. Allen, Rubber-molding apparatus, C. C. A., 3d Cir., Doc. 4361, *J. F. Allen et al.* v. *Bay State Iron Works, et al.* Decree affirmed Oct. 17, 1930.

1,554,928. (See 1,405,773 and 1,522,344.)

1,562,122. (See 1,522,344.) 1,563,506. (See 1,526,714.)

1,563,493. (See 1,522,344.)

1,566,616. (See 1,374,352 (b).)

1,567,328. (See 1,522,344.)

1,585,923, Kellogg and Goodrich, Massaging machine, D. C., E. D. Mich., S. Div., Doc. 2274, *Sanitarium Equipment Co.* v. *F. W. Knott et al.* (*Knott & Garllus*). Dismissed by consent Oct. 15, 1930.

1,593,302, E. B. Hiatt, Basket liner, D. C. Dela., Doc. E 778, *Carpenter-Hiatt Sales Co.* v. *C. E. Brown.* Consent decree holding patent valid and infringed Oct. 16, 1930.

1,594,112. (See 1,394,231.)

1,607,480. (See 1,466,701 and 1,473,976.)

1,613,728. (See 1,374,352 (b).)

1,615,060, P. S. Arnold, Indicating micrometer, D. C., E. D. Mich., S. Div., Doc. 2283, *P. S. Arnold et al.* v. *Pratt Grinding Gauge Co. et al.* Dismissed for want of prosecution Oct. 17, 1930.

1,623,832. (See Re. 16,589.)

1,643,653, G. Den Besten, Safety hitch; 1,391,058, Hulsebos and Den Besten, Plow safety hitch; 1,384,258, same, Automatically-releasing coupling, filed Oct. 16, 1930, D. C. Minn., 4th Div., Doc. 1864, *G. Den Besten et al.* v. *G. H. Sterling et al.*

1,648,560. (See Re. 15,313.)

1,648,563. (See Re. 15,313.)

1,653,155. (See 1,473,976.) 1,661,134. (See 1,405,773.)

1,666,107. (See 1,405,773.) 1,670,680. (See 1,405,773.)

1,674,056. (See 1,405,773.)

1,674,654, C. P. Mitchel, Shoe rack, D. C., E. D. Mich., S. Div., Doc. 3116, *C. P. Mitchel* v. *T. B Rayl Co.* Dismissed without prejudice Oct. 22, 1930.

1,680,618, E. S. Hutton, Locking mechanism, D. C., E. D. Mich., S. Div., Doc. 3050, *A. H. Pearson* v. *G. E. Swartz et al.* Dismissed under rule 57 Oct. 20, 1930.

1,683,207. (See 1,394,231.)

1,695,414. (See 1,466,701 and 1,473,976.)

1,693,072. (See 1,473,976.) 1,693,665. (See 1,405,773.)

1,695,414. (See 1,466,701 and 1,473,976.)

1,695,415. (See 1,473,976.)

1,701,911. (See 1,466,701.) 1,716,033. (See 1,473,976.)

1,720,301, 1,720,302, E. F. Suter, Hair drying, filed Oct. 21, 1930, D. C., S. D. N. Y., Doc. E 56/118, *Eugene, Ltd.*, v. *The Charles Arnoo Co., Inc.*

1,720,302. (See 1,720,301.)

1,723,729, M. Goldberg, Appliqué fabric, filed Oct. 16, 1930, D. C., S. D. N. Y., Doc. E 56/91, *M. Goldberg* (*Dormont Co.*) v. *A. Sharkey* (*Perforated Pattern Co.*)

1,728,879. (See 1,173,079.) 1,764,938. (See 1,483,976.)

1,771,166, M. E. Davis, Process for applying paints or cements to skived articles, filed Oct. 22, 1930, D. C., N. D. Ohio, E. Div., Doc. 3557, *H. E. Moyses et al.* v. *The Buxbaum Co.*

1,772,991, J. R. Fehr, Refrigerating apparatus, filed Oct. 17, 1930, D. C., W. D. N. Y., Doc. 359, *Frigidaire Corp.* v. *Fedders Mfg. Co., Inc.*

Re. 15,313, D. D. Morton, Arc welding system and operating same; 1,648,560, same, Electric-arc welding; 1,648,563, same, Electric-arc welding apparatus, filed Oct. 16, 1930, D. C., N. D. Ohio, E. Div., Doc. 3552, *Automatic Arc Welding Co.* v. *The Lincoln Electric Co.*

Re. 15,733, Kesten and Osborne, Automatic brakes for electric elevators and method of operating same, appeal filed Oct. 17, 1930, C. C. A., 2d Cir., Doc. 11146, *Otis Elevator Co.* v. *Atlantic Elevator Co., Inc.*

Re. 16,322. (See 1,405,773.)

Re. 16,589, A. K. Schaap, jr., Liquid-level gauge; 1,623,832, J. D. Durant, Indicator for fuel-supply tanks, D. C., E. D. Mich., S. Div., Doc. 2424, *The Schaap-Durant Control Corp.* v. *King-Sceley Corp.* Dismissed under Equity rule 57, Oct. 20, 1930.

Re. 17,131, O. S. Caesar, Heating apparatus for automotive vehicles, C. C. A. 8th Cir. (St. Louis), Doc. 8964, *United Motors Service, Inc.*, v. *Tropic-Aire, Inc.* Appeal dismissed Oct. 13, 1930.

Re. 17,514, McCabe and Schoenholz, Pocketbook top, filed Oct. 16, 1930, D. C., S. D. N. Y., Doc. E 56/92, *McCabe & Schoenholz, Inc.*, v. *Grand Metal Products Corp.*

Des. 82,055, A. F. Reilly, Pocket lighter, filed Oct. 18, 1930, D. C. Conn. (New Haven), Doc. E 2094, *Evans Case Co.* v. *The Savitt Co.*

Disclaimers

1,617,413.—*Louis A. Mortimer,* New York, N. Y. TELEPHONE SYSTEM. Patent dated February 15, 1927. Disclaimer filed November 28, 1930, by the assignee, *Western Electric Company, Incorporated.*

Hereby enters this disclaimer to the said claims of said Letters Patent which are in the following words, to wit:

"9. In a telephone system, a first exchange, a second exchange, a transmission line, automatic switches at said second exchange, means at said first exchange for controlling said switches over one side of the line, a source of alternating current at said first exchange, means at said first exchange for controlling said side of the line to transmit signaling impulses thereover comprising a relay, a key for applying alternating current from said source to said relay to cause it to alternately respond and release in accordance with said alternating current, a second source of battery and contacts included in said side of the line and controlled by said relay to cause the line to be alternately opened and closed and means at the second exchange in said side of the line responsive to said signaling impulses.

"10. In a telephone system, a first exchange, a second exchange, a transmission line, a subscriber's line, a signaling device thereat, automatic switches at said second exchange, means at said first exchange for controlling said switches over one side of the transmission line, a source of alternating current at said first exchange, a means for controlling said side of the line to transmit signaling impulses thereover comprising a relay, a key for applying alternating current from said source to said relay to cause it to alternately respond and release in accordance with said alternating current, a second source of battery and contacts included in said side of the line controlled by said relay to cause the line to be alternately opened and closed and means responsive to said impulses of current over said side of the line for actuating said signaling device at said subscriber's line."

1,712,855.—*Maurice A. Thorne,* South Bend, Ind. BRAKE. Patent dated May 14, 1929. Disclaimer filed December 1, 1930, by the assignee, *The Studebaker Corporation.*

By this disclaimer therefore restricts the scope or meaning of claims 1, 2, 3, 4 and 7 of the said patent to a brake structure having but a single continuous and uninterrupted flexible secondary portion of substantially greater length than the rigid primary portion of the brake.

1,744,261.—*Maurice B. Cooke,* Plainfield, N. J. PROCESS AND APPARATUS FOR FRACTIONAL DISTILLATION. Patent dated January 21, 1930. Disclaimer filed December 2, 1930, by the assignee, *The Atlantic Refining Company.*

Enters this its further disclaimer, to wit:

Petitioner disclaims from the scope of all the claims of said Letters Patent No. 1,744,261 all processes and systems of fractionation in which there is passed countercurrent to and in contact with the vapors, or in which the liquid oil cooled includes, an extraneous oil or an oil other than reflux oil as defined in the aforesaid former disclaimer.

1,752,660.—*Leon S. Brach,* East Orange, N. J. LIGHTNING ARRESTER. Patent dated April 1, 1930. Disclaimer filed November 24, 1930, by the patentee, assignee, *L. S. Brach Manufacturing Corp.*, consenting.

Hereby enters this disclaimer to the following claims, to wit:

"1. In a lightning arrester, a pair of electrodes anchored at one end and having their free ends arranged in overlapping relationship, and a circular piece of carborundum supported by and between said overlapping ends which are formed to contact with the carborundum over a certain portion of its surface and then gradually deflect from the carborundum to form auxiliary air gaps around the carborundum.

"2. In a lightning arrester, an insulator, a pair of metallic members forming electrodes carried by the insulator and extending in substantially the same plane toward each other so their ends overlap, said ends being formed to provide a grip therebetween and a piece of silicon carbide supported in said grip by and between said over-lapping ends, at least one of which arcuately encircles said carbide piece."

"6. In a lightning arrester, a pair of electrodes with means for making connection thereto, said electrodes comprising flat metallic members extending toward each other and having their free ends formed to provide a grip, and a cylindrically formed piece of carborundum supported between said formed ends in said grip and forming a high resistance between said electrodes, said ends being formed to act as auxiliary gaps for heavy discharges.

"7. In a lightning arrester, an insulator having a recess therein, a single pair of terminal studs carried by the insulator and located one at each end of the recess and extending through the top wall thereof, a current-conducting member fastened to each of said studs within the recess and extending toward each other and having their ends formed in overlapping relationship to provide a grip, and a piece of high resistance material held in said grip."

1,776,372.—*Richard Howland Ranger,* Newark, N. J. AIR-DRIVEN MOTOR CONTROL. Patent dated September 23, 1930. Disclaimer filed November 28, 1930, by the patentee, assignee, *Radio Corporation of America,* assenting.

Hereby enters this disclaimer to claim 4 in the said specification which is in the following words, to wit:

"In a motor speed regulation system, a motor and a constant period vibrating device associated therewith for controlling the speed of said motor."

Changes in Classification

Order No. 3,170, December 1, 1930, directs:

In *class 240, Illumination* (Division 30), abolish the following subclasses, with their definitions:

1	**Miscellaneous.**
2	**Combined light and structure**
3	Arena,
4	Furniture,
5	Oven,
6	Show case,
6.4	Portable, self-contained, electric.
7.1	**Vehicle lighting**
7.12	Locomotive headlight and number-plate illuminators,
7.15	Locomotive headlight and signal illuminators,
7.2	Carriage lights,
7.25	Exterior and interior illuminators,
7.3	Steps and platform illuminators,
7.35	Dome lights,
7.4	Berth lights,
7.45	Trolley-car dashboard lights,
7.5	Ship's running lights,
7.55	Bicycle lights.
7.6	Self electric generators,
	Automobile
8.1	Combined with fender,
8.11	Combined with radiator,
8.12	Combined with hub,
8.14	Combined instrument-board and trouble lights,
8.16	Instrument lights,
8.18	Trouble lights,
8.2	Side lights
8.22	Parking,
8.24	Lighted upon turning of car,
8.26	Running-board lights,
8.28	Motor-meter lights,
8.3	Tail-end lights.
10.5	**Portable, self-contained, electric lamps.**
9	**Systems.**
10	**Decorative lights.**
11	**Lanterns**
12	Barrel illuminators,
13	Candle type,
15	Dark,
16	Jack-o'-lanterns,
17	Lamp-chimney type;
17.5	Electric safety,
18	Miners' safety
19	Locks.
20	Photographic,
22	Signal
23	Color screen,
24	Rotatable,
25	Street,
26	Submarine,
27	Tubular
28	Bases,
29	Domes,
30	Globe operators'
31	Combined lifting and swinging,
32	Lifting,
33	Swinging,
34	Tubes,
35	Angle,
36	Collapsible,
37	Convertible,
38	Hand
39	Color screen,
40	Frames,
41	Projectors
44	Adjustable light or reflector,
45	Dimmers
45.2	Shutter slats,
45.4	Curtain.
45.6	External pivoted,
48	Vibratory,
48.2	Screen
48.4	Lens,
48.6	Bulb,
49	Revolving,
50	Bases,
51	Domes.
52	**Light supports**
53	Convertible,
54	Combined guard and holder,
55	Campaign torch,
57	Vehicle
58	Bicycle,
59	Body attached
60	Cap.
61	Dirigible
62	Automatic;

and establish in lieu thereof the following subclasses and definitions:

1	**Miscellaneous.**
1.1	**Daylight lamps.**
1.2	**Aviation lights.**
1.3	**Photographic lights.**

1.4 **Operating-table lights.**
2 **Combined light and structure**
2.1 Dial illuminator,
2.11 Weighing-machine illuminator,
2.12 Phonograph illuminator,
2.13 Door knob and keyhole illuminator,
2.14 Sewing-machine illuminator,
2.15 Liquid-gage illuminator,
2.16 Combined fan and lamp,
2.17 Telephone illuminator,
2.18 Inspection lamps,
2.25 Self-luminous articles,
3 Arena
3.1 Color projector,
4 Furniture
4.1 Mirrors,
5 Oven,
6 Show case,
6.4 Portable, self-contained, electric
6.41 Portable firearms,
6.42 Canes, umbrellas, and similar articles,
6.43 Clocks and watches,
6.44 Spirit-level illuminator,
6.45 Toilet-case illuminator,
6.46 Implement illuminator.
7.1 **Vehicle lighting**
7.12 Locomotive headlight and number-plate illuminators,
7.15 Locomotive headlight and signal illuminators,
7.2 Carriage lights,
7.25 Exterior and interior illuminators,
7.3 Steps and platform illuminators,
7.35 Dome lights,
7.4 Berth lights,
7.45 Trolley-car dashboard lights,
7.5 Ship's running lights,
7.55 Bicycle lights
7.6 Self electric generators,
7.7 Aircraft mounted,
Automobile
8.1 Combined with fender
8.11 Combined with radiator,
8.12 Combined with hub,
8.14 Combined instrument-board and trouble lights,
8.16 Instrument lights,
8.18 Trouble lights,
8.2 Side lights
8.22 Parking,
8.24 Lighted upon turning of car,
8.25 Light shifted upon turning of car,
8.26 Running-board lights,
8.28 Motor-meter lights,
8.3 Tail-end lights,
8.4 Light indicators for headlights,
8.41 Light indicators for tail lights.
9 **Systems.**
10 **Decorative lights**
10.1 Rotative.
10.5 **Portable, self-contained, electric lamps**
10.6 **Battery**
10.61 Battery-supported lamp,
10.62 Imitation-firearm type,
10.63 Hand-lantern type,
10.64 Imitation-candle type,
10.65 Flat casing,
10.66 Tubular casing,
10.67 Angular head,
10.68 Direct battery contact,
10.69 Focusing.
11 **Lanterns**
11.1 Acetylene,
11.2 Electric
11.3 Safety,
11.4 Vapor or gas tube,
12 Barrel illuminators,
13 Candle type,
15 Dark,
16 Jack-o'lanterns,
17 Lamp-chimney type,
18 Miners' safety
19 Locks,
20 Photographic,
22 Signal
23 Color screen,
24 Rotatable,
25 Street,
26 Submarine,
27 Tubular
28 Bases,
29 Domes,
30 Globe operators
31 Combined lifting and swinging,
32 Lifting,
33 Swinging,
34 Tubes,
35 Angle,
36 **Collapsible,**
37 Convertible
37.1 Automatic light substitution,

Lanterns—
38 Hand
39 Color screen,
40 Frames,
41 Projectors
41.1 Indirect lighting,
41.15 Surgical or dental spotlights,
41.2 Combined with lateral beam projector,
41.25 Reflector and multiple filaments,
41.3 Reflector and lens,
41.35 Reflectors
41.36 Corrugated, faceted, or fluted,
41.37 Varied focus, axis, or vertex,
41.38 Catadioptric,
41.4 Anti-glare lenses,
41.5 Combined closure and reflector fasteners,
41.55 Casing closures,
41.6 Tiltable or rotatable reflector and bulb unit
41.61 Electromagnetic,
41.62 Pneumatic,
44 Adjustable light or reflector,
44.1 Adjustable reflector,
44.2 Adjustable light source
44.25 Electromagnetic,
44.26 With sighting device,
44.27 Combined with switch,
45 Dimmers
45.2 Shutter slats,
45.4 Curtain,
45.6 External pivoted,
47 Ventilating and cooling,
48 Vibratory,
48.2 Screen
48.4 Lens,
48.6 Bulb,
49 Revolving,
50 Bases,
51 Domes.
52 **Light supports**
52.1 Quick attachable,
52.2 Suction cup,
52.3 Handles and bails,
52.4 Imitation candles.
52.5 Flash-light supports,
52.6 Vase attached,
53 Convertible,
54 Combined guard and holder,
55 Campaign torch,
57 Vehicle
57.1 Hand lantern holders,
58 Bicycle,
59 Body attached
60 Cap,
61 Dirigible
61.1 Marine and aircraft searchlights,
Head lamps
61.2 Manually and automatically operated
61.3 Gear actuator,
61.4 Flexible actuator,
61.5 Link and lever actuator,
61.6 Manually rotatable and tiltable,
61.7 Manually rotatable,
61.8 Manually tiltable,
61.9 Electromagnetically operated,
61.10 Fluid-pressure operated,
61.11 Spot lamps
61.12 Directly actuated,
61.13 Intermediate operator,
62 Automatic
62.1 Locomotive,
62.2 Operated by centrifugal force,
62.3 Fluid pressure,
62.4 Electromagnetic,
62.5 Steering-post control
62.51 Gear,
62.52 Link and lever
62.53 Pin and slot,
62.54 Telescopic,
62.6 Stub-axle control
62.61 Gear,
62.62 Link and lever
62.63 Pin and slot,
62.64 Telescopic
62.65 Pin and slot,
62.7 Tie-rod control
62.71 Gear,
62.72 Link and lever
62.73 Pin and slot,
62.74 Telescopic
62.75 Pin and slot.

In *class 240, Illumination* (Division 30), establish the following subclass and definition, the patents contained in this subclass having been taken from class 240, subclass 106, **Refractors**:

Refractors
106.1 Lenses.

(Note.—The definitions for these subclasses will be published in Classification Bulletin No. 62.)

TRADE-MARKS

OFFICIAL GAZETTE, DECEMBER 16, 1930

[VOL. 401. No. 3]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for " under the ten-year proviso " are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 306,598. DISPERSIONS PROCESS, INC., New York, N. Y. Filed Oct. 10, 1930.

DISPERSITE

For Rubber Dispersed in a Water Medium.
Claims use since Sept. 11, 1930.

Ser. No. 306,656. THE MIDLAND COAL CORPORATION, Cincinnati, Ohio. Filed Oct. 11, 1930.

Kroll-Litz

For Coal.
Claims use since July 29, 1929.

CLASS 2

Receptacles

Ser. No. 304,313. M. B. CLAFF & SONS, INC., Randolph, Mass. Filed Aug. 7, 1930.

AUTOMATIC PROCESS
CLAFFBOX
M. B. CLAFF & SONS

The applicant hereby disclaims all words shown on the drawing except the applicant's corporate name.
For Paper Boxes.
Claims use since Dec. 1, 1929

Ser. No. 307,387. CURTIS MANUFACTURING COMPANY, doing business as Curtis Pneumatic Machinery Company and Curtis Saw Company, Wellston Station, Mo. Filed Oct. 31, 1930.

CURTIS
ST. LOUIS

In the drawing the body of the oval is lined for red and the cross bars for blue. Applicant is the owner of registration No. 105,389, of July 20, 1915, for the words "Curtis St. Louis," per se.
For Tanks for Compressed Air.
Claims use since 1920.

Ser. No. 307,541. UNION BAG AND PAPER CORPORATION, New York, N. Y. Filed Nov. 4, 1930.

UNION
LONG HORN

For Paper Bags.
Claims use since Oct. 23, 1930.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 304,031. APEX PRODUCTS CORPORATION, Chicago, Ill. Filed July 31, 1930.

CLOTH O' GOLD

For Chemically-Treated Polishing Cloth for Metal and Varnished Surfaces.
Claims use since July 22, 1930.

Ser. No. 306,783. NAUHEIM PHARMACY, INC., New York, N. Y. Filed Oct. 15, 1930.



The exclusive right to the words "Savon pour le Bain, New York, Paris" is disclaimed except in association shown.

For Soaps.

Claims use since Sept. 1, 1930.

Ser. No. 306,829. NORTON COMPANY, Worcester, Mass. Filed Oct. 16, 1930.



Applicant is the owner of prior registrations No. 196,641 and No. 200,267 for the word "India" Exclusive use of the words "Oil Stones" and "Sharp and Quick" is not claimed apart from the mark shown on the drawing.

For Oilstones, Hones, Whetstones, Scythe Stones, Rubbing Bricks, Abrasive Files, Points and Slips, Oilstone Wheels, and Abrasive and Sharpening Stones.

Claims use since Feb. 15, 1809.

Ser. No. 306,863. HUNTINGTON LABORATORIES, INC., Huntington, Ind. Filed Oct. 17, 1930.

Trazo-San

For Cleaning Compound Especially Adapted for Terrazzo, Tile, and Marble Floors.

Claims use since May 1, 1930.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 297,207. FERNANDO A. RUBIÓ and RAÚL ROVIRALTA, doing business as Laboratories Andromaco, Barcelona, Spain. Filed Mar. 12, 1930.



For Cod-Liver Oil, General Tonics, Laxative Medicines; Medicines Indicated for Diseases of the Respiratory Organs, Rheumatism, and the Nervous System; Opotherapic Medicines and Serum.

Claims use since 1925.

Ser. No. 302,819. FRANCOIS FUES, doing business as Dr. Francois Fues Pharmaceutical Corp., Bloomfield and Newark, assignor to Dr. Francois Fues Pharmaceutical Corp., Newark, N. J., a Corporation of New Jersey. Filed June 25, 1930.



The representation of the female figure forming a feature of the mark is fanciful. The facsimile signature forming a feature of the mark is that of the applicant. The words "Marque Depose" are disclaimed apart from the mark as shown on the drawing. The translation of the words "Reusedum Mirakulosum" which form a feature of the mark is "without limit miraculous." The words "Reusedum Mirakulosum" are disclaimed apart from the mark.

For Cold Cream and Face Powder.

Claims use since Dec. 4, 1906.

Ser. No. 303,454. ALFRED TINALLY, San Antonio, Tex. Filed July 12, 1930.



For Paste, a Lubricant, and a Preservative for All Metals, Wood, and Concrete as Proof Against Acids, Alkali, Corrosion, Rust, Teredos, White Ants, Electrolysis, Oxidation, Chemicals, Heat, Cold, Steam, Gas, or Sulphur Fumes, Brine, or Other Destructive Agencies.

Claims use since Jan. 1, 1926.

Ser. No. 303,680. APEX PRODUCTS CORPORATION, Chicago, Ill. Filed July 21, 1930.



For Insecticide.

Claims use since June 1, 1930.

Ser. No. 304,499. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Aug. 12, 1930. Under section 5b of the act of 1905, as amended in 1920.



Applicant is the owner of registrations Nos. 57,419 and 57,420 effected on the ground of actual and exclusive use.

For Chromic Acid, Arsenic Acid, Formic Acid, Calcium Arsenate, Manganese Arsenate, Lead Arsenate, Cadmium Chemicals, Zinc Chemicals, Lead Chemicals, Insecticides and Fungicides Such as the Above-Mentioned Arsenicals, and in Addition Spray Products, Bordeaux Mixtures, Lime Sulfur, Wettable Sulfur, Oil Emulsions, Summer-Fruit Sprays, Casein Lime Preparations Used in Horticultural Sprays, Depilatories, Soldering Fluxes, Tinning Fluxes, Tin Chloride, and Titanium Oxide Filaments. "Titanium Oxide Pigments" Are Used as Components in Paints, Particularly White Paints; as Ingredients in the Manufacture of Ceramics, as Pigments in Rubber Mixtures, and Generally Wherever Inorganic Pigments Are Used.

Claims use since Dec. 15, 1928.

Ser. No. 305,143. SACCHARIN-FABRIK AKTIENGESELLSCHAFT VORM. FAHLBERG, LIST & CO., Magdeburg-Sudost, Germany. Filed Aug. 29, 1930.

Lactobaryt

For Preparation to Be Swallowed for Producing a Better Contrast Effect of the Picture in Röntgen Photographs.

Claims use since May, 1929.

Ser. No. 305,144. SACCHARIN-FABRIK AKTIENGESELLSCHAFT VORM. FAHLBERG, LIST & CO., Magdeburg-Sudost, Germany. Filed Aug. 29, 1930.

Roebaryt

For Preparation to Be Swallowed for Producing a Better Contrast Effect of the Picture in Röntgen Photographs.

Claims use since September, 1922.

Ser. No. 305,256. WALL CHEMICALS INCORPORATED, Detroit, Mich. Filed Sept. 2, 1930.

ASADOL

For Medicated Tablet for Use in the Treatment of Headache, Pains, and Like Ailments.

Claims use since Aug. 1, 1930.

Ser. No. 306,037. THE C. B. DOLGE COMPANY, Westport, Conn. Filed Sept. 24, 1930.

F. & E. SOLUTION

No claim is made to the word "Solution" apart from the mark as shown on the drawing.

For Solution Used as a Disinfectant and Deodorizer.

Claims use since 1912.

Ser. No. 306,062. LENTHERIC, INCORPORATED, New York, N. Y. Filed Sept. 25, 1930.

PARISIA

For Astringents, Cleansing Cream, Hair Lotion, Complexion Lotion.

Claims use since Sept. 18, 1930.

Ser. No. 306,513. DR. THUNA BALSAM REMEDIES, LIMITED, Toronto, Ontario, Canada. Filed Oct. 7, 1930.

THUNA'S THORO-KLEEN HERBS

No claim is made to the word "Herbs" apart from the trade-mark as shown.

For Pharmaceutical Preparation for a Laxative Tea and Intestinal Cleanser.

Claims use since May 15, 1927.

Ser. No. 306,567. THE KYSKY COMPANY, Dallas, Tex. Filed Oct. 9, 1930.

KYSKY

RADIATOR OIL

The words "Radiator Oil" are disclaimed apart from the mark shown in the drawing.

For Antifreeze Compounds for Automobile Radiators.

Claims use since Apr. 1, 1930.

Ser. No. 306,790. LE LABORATOIRE DU BACTÉRIOPHAGE, Paris, France. Filed Oct. 15, 1930.

BACTÉ - PYO - PHAGE

For Agents in Ampoule Form Destructive of Bacteria or Bacterialike Bodies and Used in the Treatment of Suppurations and Wounds.

Claims use since Oct. 9, 1928.

Ser. No. 306,791. LE LABORATOIRE DU BACTÉRIOPHAGE, Paris, France. Filed Oct. 15, 1930.

BACTÉ-INTESTI-PHAGE

For Agents in Ampoule Form Destructive of Bacteria or Bacterialike Bodies and Used as a Treatment in Intestinal Diseases.

Claims use since Oct. 9, 1928.

Ser. No. 306,792. LE LABORATOIRE DU BACTÉRIOPHAGE, Paris, France. Filed Oct. 15, 1930.

HH

For Agents in Ampoule Form Destructive of Bacteria or Bacterialike Bodies and Used for the Treatment of Suppurations and Wounds, for Diseases of the Respiratory Tract, and Intestinal Troubles.

Claims use since Oct. 9, 1928.

Ser. No. 306,936. L. N. CONRAD, doing business as The Shavaid Company, Dayton, Ohio. Filed Oct. 20, 1930.

SHAVAID

For Ointment Used for Preparing the Face for Shaving.

Claims use since June 2, 1930.

Ser. No. 306,974. ADELAIDE STEWART, New York, N. Y. Filed Oct. 20, 1930.

Mme A. Stewart

The mark is a facsimile of the signature of the applicant.

For Hair Grower.

Claims use since Oct. 1, 1929.

Ser. No. 307,053. INECTO, INC., New York, N. Y. Filed Oct. 22, 1930.

OLOXO

For Hair Dyes, Face Powder, Hand Lotion, and Cleansing Cream.

Claims use since Oct. 7, 1930.

Ser. No. 307,070. THE STYRON-BEGGS COMPANY, Newark, Ohio. Filed Oct. 22, 1930.

GREAT SEAL

DEALERS AUTHORIZED TO GUARANTEE THESEGOODS

SEE THAT SPOT

No claim is made herein to the words "Dealers Authorized to Guarantee These Goods" and "See That Spot" apart from the mark shown in the drawing.

For Oxide of Zinc, Alum, Ammonia, Antiseptic Solution, Arnica, Aspirin, Bay Rum, Bay Leaves, Belladonna Plaster, Blue Vitriol, Borax, Boric Acid, Spirits Camphor, Camphorated Oil, Castor Oil, Chamomile Flowers, Toilet Cream, Laxative Cold Tablets with Hydrobromid Quinine, Cold Salve, Compound Cathartic Pills, Copperas, Corn Plasters, Corn Medicine, Cough Balsam, Cream Tartar, Epsom Salts, Flaxseed Meal, Glycerine, Haarlem Oil, Tincture of Iodine, Tincture of Iron; Liniment Used in External Applications for Muscular Sprains, Bruises, Aches, or Pains; Toilet Lotion, Laxative Tablets, Moth Balls, Spirits Nitre, Spirits Peppermint, Petroleum Jelly, Pine Tar, Quinine Sulphate, Rochelle Salts, Rose Water and Glycerine, Salicylic Acid, Saltpetre, Senna Leaves, Seidlitz Powders, Shampoo Liquid, Sulphur, Sweet Oil, Talcum Powder, Tasteless Castor Oil, Tooth Paste, Toothache Drops, Toothache Gum, Turmeric, Gum Spirits of Turpentine, Witch-Hazel, and Bluing.

Claims use since January, 1896.

Ser. No. 307,163. JOHN W. JACOBS, Douglas, Ga. Filed Oct. 25, 1930.



John W. Jacobs

The picture being a likeness of the applicant and the name a facsimile of the signature of the applicant.

For Blood Purifier and General Tonic.

Claims use since Jan. 10, 1929.

Ser. No. 307,220. WILLIAM D. RUE, Cincinnati, Ohio. Filed Oct. 27, 1930.

LOTTA-EASE

For Salve Preparation for Local Application in the Treatment of Corns, Bunions, Callouses, Athletic-Toe Itch, Arthritis, Neuritis, and Limb Swelling.

Claims use since Oct. 8, 1930.

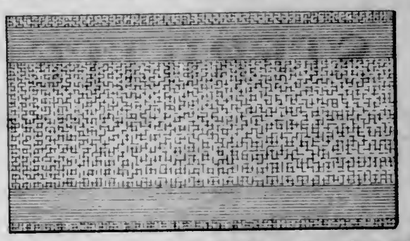
Ser. No. 307,253. CALIFORNIA PACKING CORPORATION, San Francisco, Calif. Filed Oct. 28, 1930.

Gold Bar

For Baking Powder and Salt.

Claims use since Mar. 18, 1930, on baking powder, and since Apr. 25, 1930, on salt.

Ser. No. 307,258. CALIFORNIA PACKING CORPORATION, San Francisco, Calif. Filed Oct. 28, 1930.



The shading on the drawing indicates the colors yellow and blue.

For Baking Powder and Salt.

Claims use since Mar. 18, 1930, on baking powder, and since Apr. 25, 1930, on salt.

Ser. No. 307,260. CALIFORNIA PACKING CORPORATION, San Francisco, Calif. Filed Oct. 28, 1930.

SUN-KIST

For Baking Powder and Salt.

Claims use since Apr. 9, 1912.

Ser. No. 307,263. CALIFORNIA PACKING CORPORATION, San Francisco, Calif. Filed Oct. 28, 1930.

SUN-KIST

The lining in the drawing indicates the color red.
For Baking Powder and Salt.
Claims use since Apr. 9, 1912.

Ser. No. 307,283. ADELAIDE ORTEGAT, NÉE ADELAIDE FERNANDEZ LESA, Paris, France. Filed Oct. 28, 1930.

SANO-BATH

No claim being made to the exclusive use of the word "Bath" apart from the mark shown.
For Perfumes, Shampoos, Hair Lotions, Bath Essence.
Claims use since July 11, 1930.

Ser. No. 307,370. THOMAS A. PATTERSON, doing business as T. A. Patterson Laboratories, Cleveland, Ohio. Filed Oct. 30, 1930.

STERILITE

For Chemical Solution for Treatment and Prevention of Skin Diseases.
Claims use since Oct. 16, 1930.

Ser. No. 307,487. JACOB GLASS, New York, N. Y. Filed Nov. 3, 1930.

ANTI-NARCIN

In the drawing, the word "Anti" is disclaimed apart from the mark as shown.
For Antinarcotics.
Claims use since Oct. 1, 1930.

Ser. No. 307,536. H. L. RIVERS, Moultrie, Ga. Filed Nov. 4, 1930.

ATOP

For Preparation for Use in Promoting the Growth of the Hair.
Claims use since Sept. 18, 1930.

Ser. No. 307,586. WILLIAM H. CRAMER, doing business as Venlox Products Company, Venice, Calif. Filed Nov. 6, 1930.

Venlox

For Face Lotion.
Claims use since June 19, 1930.

Ser. No. 307,588. THE DAIRY LABORATORIES, Philadelphia, Pa. Filed Nov. 6, 1930.

Ken-nol

For Insecticides.
Claims use since Oct. 1, 1930.

Ser. No. 307,595. HOLLYWOOD MARVEL PRODUCTS CO., Hollywood, Calif. Filed Nov. 6, 1930.

LOXALITE

For Shampoo.
Claims use since Sept. 1, 1930.

Ser. No. 307,610. SYM PRODUCTS, INCORPORATED, St. Louis, Mo. Filed Nov. 6, 1930.

SYM

For Chemical for Removing Scale from Radiators.
Claims use since April, 1930.

Ser. No. 307,623. GREAT WESTERN ELECTRO-CHEMICAL CO., San Francisco, Calif. Filed Nov. 7, 1930.

ALGENE

For Solution of Sodium Hypochlorite.
Claims use since Oct. 25, 1930.

CARNEGIE LIBRARY OF ATLANTA

Ser. No. 307,637. TOBIAS M. SPIELDOCH, St. Louis, Mo. Filed Nov. 7, 1930.

DREADNAUGHT
(DREAD NOT)

For Venereal Prophylactics.
Claims use since Oct. 1, 1930.

Ser. No. 307,692. SHIGEZO YUYAMA, Bronxville, N. Y. Filed Nov. 8, 1930.

GENEVINE
KCL

For Medicinal Preparation for the Treatment of Affections of the Lips, Mouth, and Throat, Including Skin Eruptions, Fever, Headache, Halitosis, and Tonsilitis.
Claims use since Oct. 21, 1930

Ser. No. 307,767. HOWARD B. COLES, doing business as Adipin Company, New York, N. Y. Filed Nov. 11, 1930.

ADIPIN

For Medicinal Compound or Preparation for the Correction of Errors of Metabolism, Such as Adiposity, Diabetic Conditions, and Menstrual Irregularities.
Claims use since July 1, 1930.

Ser. No. 307,799. CHEM. FABRIKATIONSGESELLSCHAFT BEITROPA, M. B. H., Charlottenburg, Berlin, Germany. Filed Nov. 12, 1930.

Entrupal

For Preparation for Treating the Hair and Preparation for Treating Burns.
Claims use since Sept. 17, 1924.

Ser. No. 307,804. CORN PRODUCTS REFINING COMPANY, New York, N. Y. Filed Nov. 12, 1930.

AMIDEX

For Starches and Dextrins for Sizing Purposes.
Claims use since October, 1909.

Ser. No. 307,816. HEALTH PRODUCTS CORPORATION, Newark, N. J. Filed Nov. 12, 1930.



For Cod-Liver-Oil Concentrate.
Claims use since Oct. 2, 1930.

CLASS 8

Smokers' Articles, Not Including Tobacco Products

Ser. No. 305,611. HAINES LEATHER GOODS COMPANY, Philadelphia, Pa. Filed Sept. 12, 1930.

CIG KIT

No claim being made to the word "Kit" apart from the mark as shown.
For Sportsmen's Kits for Containing Cigars, Cigarettes, Matches, Etc., and Worn by Sportsmen.
Claims use since May 20, 1930.

CLASS 12

Construction Materials

Ser. No. 251,478. THE BALSA WOOD COMPANY, INC., New York, N. Y. Filed July 5, 1927.

LATA

No claim is made to exclusive rights in the word "Lata" as applied to lath.
For Balsa Wood in the Form of Dressed Lumber.
Claims use since Jan. 1, 1926.

Ser. No. 301,047. THE MERCHANT TRADING COMPANY, LIMITED, London, England. Filed May 22, 1930.

BAGASITE

For Wall and Ceiling Panels.
Claims use since Apr. 17, 1929.

Ser. No. 302,295. WABASH PORTLAND CEMENT COMPANY, Stroh, Ind., Osborn, Ohio, and Detriot, Mich. Filed June 9, 1930.

AQUATITE

For Building Cement.
Claims use since Aug. 2, 1929.

Ser. No. 305,655. CERTAIN-TEED PRODUCTS CORPORATION, New York, N. Y. Filed Sept. 13, 1930.

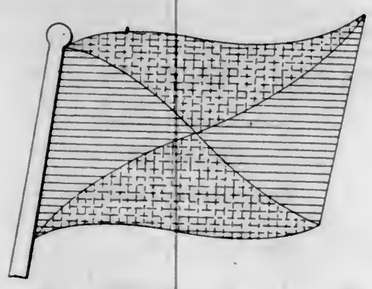
Brick-tex

For Protective Siding for Buildings, Walls, Etc., to Simulate Brickwork and Made from Sheet Roofing Materials Such as Slate-Surfaced Asphalt-Saturated Felt Roofing.
Claims use since Aug. 20, 1930.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 301,624. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed May 29, 1930.



The line shading in the drawing indicates the colors blue and gold.
For Grommets, Belt Cleats, Valves for Pumps, and Nozzles.
Claims use since July, 1929.

Ser. No. 306,716. HUGH H. YOUNG, Baltimore, Md. Filed Oct. 13, 1930.

PENDULOCUP

For Metal Soap Dispensers.
Claims use since May, 1930.

Ser. No. 306,893. JUBILEE MANUFACTURING CO., Omaha, Nebr. Filed Oct. 18, 1930.

RED-TOP

For Hose Clamps.
Claims use since Oct. 1, 1930.

Ser. No. 307,307. CHASE BRASS & COPPER CO. INCORPORATED, Waterbury, Conn. Filed Oct. 29, 1930.



For Closet Screws for Toilet Bowls, Sink Plugs, Plumbing Traps, Supply Pipes, Basin Cocks, Radiator Air Valves, Wastes and Overflows, Faucets, Elbows, Tees, and Reducers, All Made of Metal.
Claims use since June 13, 1928, on closet screws; since June 14, 1928, on sink plugs; since June 16, 1928, on traps; since June 20, 1928, on supply pipes and basin cocks; since June 21, 1928, on radiator air valves; since Jan. 15, 1929, on wastes and overflows and faucets; and since Aug. 31, 1929, on elbows, tees, and reducers.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 307,526. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Nov. 4, 1930.

DU PONT

For Cadmium Metal and Zinc Metal.
Claims use since Dec. 15, 1928.

CLASS 15

Oils and Greases

Ser. No. 301,155. THE BURFORD OIL COMPANY, Pecos, Tex. Filed May 24, 1930.

STOPS KNOCKS
SILENCER
GASOLINE

Applicant hereby disclaims the words "Stops Knocks" and "Gasoline" apart from the mark shown in the drawing.
For Gasoline, Kerosene, Lubricating Oils and Lubricating Greases, and Illuminating Oil.
Claims use since September, 1929.

Ser. No. 304,597. ASSOCIATED SALES COMPANY, Chicago, Ill. Filed Aug. 14, 1930.

PAD

For Lubricating Oils and Lubricating Greases.
Claims use since Jan. 10, 1930.

Ser. No. 306,540. JOHN L. RAY, doing business as Lubrication Engineering & Sales Company, Long Island City, N. Y. Filed Oct. 8, 1930.

TRIPLEX

For Motor-Lubricating Oils.
Claims use since December, 1926.

CLASS 16

Paints and Painters' Materials

Ser. No. 266,494. JOHN C. STALFORT & SONS, INC., Baltimore, Md. Filed May 16, 1928.

Stalfort's
FLASH
WAX

No claim being made to the word "Wax" apart from the mark shown in the drawing.
For Wax in Semiliquid, Paste, Cream, Powder, and Solid Forms for Waxing Floors, Tile, Marble, Linoleum, Oilcloth, and Finished Leather.
Claims use since June, 1906.

Ser. No. 301,360. PROTECTOLIZE COMPANY, Winchester, Mass. Filed May 27, 1930.

PROTECTOLIZE

For Polishing Wax and a Polish for the Surfaces of Automobiles, Said Polish Having Incidental Cleaning Properties.
Claims use since September, 1928.

Ser. No. 302,934. COOK PAINT AND VARNISH COMPANY, North Kansas City, Mo. Filed June 28, 1930.



All of the wording upon the drawing accompanying the application except "Cook's" "Coroc," and the applicant's corporate name are hereby disclaimed apart from the mark as shown.
For Paints in Ready-Mixed Form, Varnishes, Paint Enamels, and Lacquers.
Claims use since July 1, 1928.

Ser. No. 303,165. COOK PAINT AND VARNISH COMPANY, North Kansas City, Mo. Filed July 7, 1930.

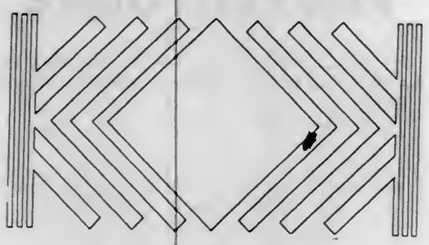


All of the wording upon the drawing accompanying the application except "Cook's," "In-Ex," and the applicant's corporate name are hereby disclaimed apart from the mark as shown.

For Paints in Ready-Mixed Form.

Claims use since Oct. 15, 1929.

Ser. No. 307,483. GENERAL PAINT CORPORATION, San Francisco, Calif. Filed Nov. 3, 1930.



For Ready-Mixed Paints, Paint Enamels, Lacquers, Varnishes, Dry White Lead, White Lead in Oil, Dry Red Lead, Litharge, Linseed Oils, Turpentine, Dry Paint Colors, Kalsomine, Manufactured Paint Thinners, Colors Ground in Oil, Colors Ground in Japan, and Wood Stains.

Claims use since Mar. 25, 1930.

Ser. No. 307,484. GENERAL PAINT CORPORATION, San Francisco, Calif. Filed Nov. 3, 1930.



For Ready-Mixed Paints, Paint Enamels, Lacquers, Varnishes, Dry White Lead, White Lead in Oil, Dry Red Lead, Litharge, Linseed Oils, Turpentine, Dry Paint Colors, Kalsomine, Manufactured Paint Thinners, Colors Ground in Oil, Colors Ground in Japan, and Wood Stains.

Claims use since Mar. 25, 1930.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 291,528. THE PRICE-HOLLISTER CO., Rockford, Ill. Filed Oct. 24, 1929.

JUMBO

For Assembled and Nonassembled Vehicle Attachments—Namely, Springs, Axles, Clips, Hangers, Wheels, and Torquing Devices.

Claims use since Feb. 11, 1929.

Ser. No. 307,462. SUPERIOR BODY COMPANY, Lima, Ohio. Filed Nov. 1, 1930.

MODERN TRAVELER

For Bus Bodies.

Claims use since July 15, 1929.

CLASS 21

Electrical Apparatus, Machines, and Supplies

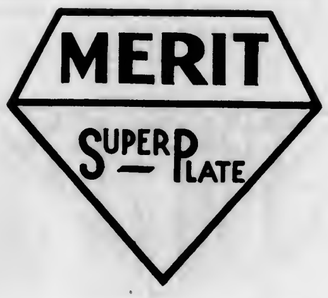
Ser. No. 303,695. CONRAD P. MEUSSDORFFER, doing business as Cam Manufacturing Co., Ross, Calif. Filed July 21, 1930.

CAM

For Electrical Sirens.

Claims use since Oct. 20, 1924.

Ser. No. 305,558. AMERICAN ELECTRO-CHEMICAL CO., Minneapolis, Minn. Filed Sept. 11, 1930.



No claim is made to the words "Merit" and "Plate" apart from the mark as shown in the drawings.

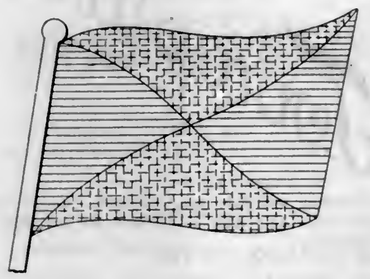
For Storage Batteries.

Claims use since Aug. 28, 1930.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 301,622. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed May 29, 1930.



The line shading in the drawing indicates the colors blue and gold.

For Gymnasium Apparatus and Home Exercisers Consisting of an Elongate Piece of Rubber with or without Handles.

Claims use since July, 1929.

Ser. No. 303,571. JESSE J. KIRBY, Gallatin, Tenn. Filed July 17, 1930.



LITTLE BO-PEEP

For Materials for Constructing Miniature Golf Courses and Apparatus for Use in Connection Therewith—Namely, Cups for Greens, Markers, Putting Irons, Golf Balls, Score Cards, Display Signs, and Replacement and Repair Units, and Interchangeable Hazards.

Claims use since May 1, 1930.

Ser. No. 306,343. HENDERSON WILLIAM CHRISTIE, doing business as The Golf-Nac Company, Butler, Pa. Filed Oct. 3, 1930.

GOLF-NAC

The word "Golf" is disclaimed apart from the mark as shown.

For Golf Balls, Golf Clubs, Golf Bags, and Golf Practice Nets.

Claims use since Sept. 29, 1930.

Ser. No. 306,860. GOLF BOWL, INC., New York, N. Y. Filed Oct. 17, 1930.



No registration rights are claimed herein to the word "Game" nor to the geographic designation "729 7th Ave., New York, N. Y." apart from the mark as shown.

For Game Devices Wherein a Ball is Directed Along a Runway Toward Targets at One End.

Claims use since Oct. 1, 1930.

Ser. No. 307,054. JOHNSON SUTURE CORPORATION, Chicago, Ill. Filed Oct. 22, 1930.



The trade-mark comprises a spiral green strand or stripe unaccompanied by any color other than that of the natural (yellowish) gut color and extending lengthwise of the string. No claim is made to the representation of the string.

For Gut Strings for Rackets.

Claims use since July 24, 1929.

Ser. No. 307,590. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio. Filed Nov. 6, 1930.

HYDRO

For Artificial Bait Such as Spinners.

Claims use since Oct. 25, 1930.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 282,124. MOTOR X-RAY CO., INC., Glendale, Calif. Filed Apr. 9, 1929.

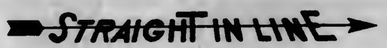


The words "Injector" and "Los Angeles" are disclaimed.

For Applicators and Injectors for Compositions and Fluids and the Like, Particularly for Injecting Fluid into Motor Cylinders.

Claims use since Nov. 24, 1928.

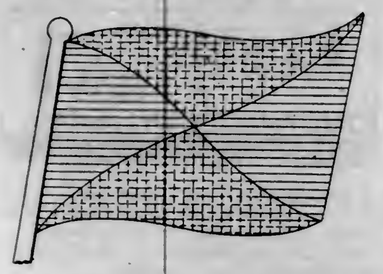
Ser. No. 300,780. ALBERT E. BOTSFORD, Walla Walla, Wash. Filed May 19, 1930.



For Implements—Namely, Seeders, Drills, and Weeders.

Claims use since May 1, 1930.

Ser. No. 301,625. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed May 29, 1930.



The line shading in the drawing indicates the colors blue and gold.

For Bradley Hammer Cushions, Rubber Mallets, Wool-Scouring Rings, Bushings for Use in Mechanical Joints, and Force Cups, Lithograph Ink Rollers, Rubber and Rubber and Fabric Ink Rollers, Rotogravure Printing-Machine Rollers, Steel and Tin Mill Wringer and Scrubber Rollers, Newspaper-Cutting Rubbers.

Claims use since July, 1929.

Ser. No. 305,105. THE FERRO MACHINE & FOUNDRY COMPANY, Cleveland, Ohio. Filed Aug. 28, 1930.

FERRO

For Self-Measuring Liquid-Dispensing Apparatus, Particularly Gasoline-Dispensing Apparatus.

Claims use since June, 1930.

Ser. No. 306,839. SOUTHWORTH MACHINE COMPANY, Portland, Me. Filed Oct. 16, 1930.



No claim is made to the words "Trade Mark" or to "Portland, Maine, U. S. A.," nor to the word "Quality."

For Machines, Tools and Appliances Used in the Printing and Kindred Arts—Namely, Paper Punching and Perforating Machines, Round-Cornering Machines; Dies, Punches, and Knives for the Foregoing; Paper Conditioning and Humidifying Machines, Paper-Jogging Machinery, and Paper-Hanging Devices.

Claims use since Jan. 1, 1909.

Ser. No. 307,605. NIAGARA SPRAYER AND CHEMICAL CO., INC., Middleport, N. Y. Filed Nov. 6, 1930.

Terraplane

For Dusting Machine for Applying Insecticidal or Fungicidal Dust to Plants to Control the Parasitic Diseases Thereof.

Claims use since May 10, 1930.

CLASS 24

Laundry Appliances and Machines

Ser. No. 306,088. THE J. R. CLARK CO., Minneapolis, Minn. Filed Sept. 26, 1930.

FIRM-O-MATIC

No claim is made, however, to the word "Firm" apart from the mark as shown in the drawing.

For Ironing Boards.

Claims use since Aug. 1, 1930.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 307,291. TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y. Filed Oct. 28, 1930.

HUMIDIGUIDE

For Apparatus for Determining the Relative Humidity of the Air.

Claims use since Oct. 6, 1930.

Ser. No. 307,315. DU PONT-PATHÉ FILM MANUFACTURING CORP., New York, N. Y. Filed Oct. 29, 1930.

DUPACK

For Photographic Film.

Claims use since Oct. 21, 1930.

Ser. No. 307,459. RADIOVISOR PARENT LIMITED, London, England. Filed Nov. 1, 1930.

'RADIOVISOR'

For Instruments for Measuring Differences in Colors, Opacities, and Solution Densities.

Claims use since Feb. 16, 1927.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 307,352. FRIED-OSTERMANN COMPANY, Milwaukee, Wis. Filed Oct. 30, 1930.

WOOLISHINE

For Polishing and Dusting Mitt.

Claims use since May 14, 1930.

CLASS 30

Crockery, Earthenware, and Porcelain

Ser. No. 307,659. WALT DISNEY PRODUCTIONS, LTD., Los Angeles, Calif. Filed Nov. 8, 1930.

Mickey Mouse

For Dishes, Chinaware, Porcelain, and Crockery.

Claims use since Oct. 22, 1930.

CLASS 31

Filters and Refrigerators

Ser. No. 307,383. TRICOLATOR COMPANY, INC., New York, N. Y. Filed Oct. 29, 1930.

TRICOLATOR

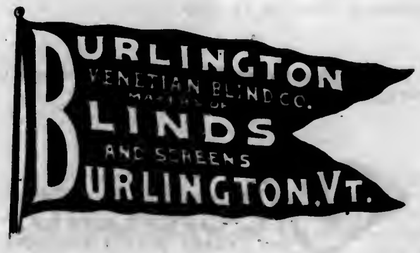
For Filter Papers Made of Fibrous Material.

Claims use since May 22, 1922.

CLASS 32

Furniture and Upholstery

Ser. No. 297,582. BURLINGTON VENETIAN BLIND CO., Burlington, Vt. Filed Mar. 20, 1930.



The applicant disclaims "Makers of Blinds and Screens Burlington, Vt." apart from the mark as shown in drawing.

For Venetian Blinds.

Claims use since Feb. 15, 1930.

Ser. No. 298,593. JEROME H. SIMON, Passaic, N. J. Filed Apr. 9, 1930.

TREAD LITE

For Carpet and Rug Cushions.

Claims use since Jan. 10, 1930.

Ser. No. 306,133. FRAMECRAFT MANUFACTURING COMPANY, Philadelphia, Pa. Filed Sept. 27, 1930.

FRAME CRAFT

No claim being made to the word "Frame" apart from the mark as shown.

For Picture Frames.

Claims use since Sept. 4, 1930.

CLASS 33

Glassware

Ser. No. 283,282. JENAER GLASWERK SCHOTT & GEN., Jena, Germany. Filed Apr. 30, 1929.



No claim is made herein to the exclusive right to the words "Duran" and "Jena" apart from the mark shown in the drawing.

For Raw Glass for Optical Manufacture, Plain Laboratory and Household Glass Vessels, Glass Tubes, Glass Rods, Glass Plates, and Lamp Glasses.

Claims use since 1927.

Ser. No. 305,374. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del. Filed Sept. 5, 1930.

Esso

For Glass Pump Globes and Lenses Therefor.

Claims use since Apr. 1, 1930.

CLASS 34

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus

Ser. No. 299,862. RICHARDSON & BOYNTON COMPANY, New York, N. Y. Filed May 2, 1930.

SUPERTEST

For Heating Apparatus—Namely, Hot-Water-Supply Boilers Using Gas, Oil, or Coal as Fuel.
Claims use since Feb. 21, 1930.

Ser. No. 306,548. THE YOUNGSTOWN WELDING & ENGINEERING CO., Youngstown, Ohio. Filed Oct. 8, 1930.

WELDCO

The drawing is lined for shading only.
For Gas Water Heaters.
Claims use since Jan. 1, 1922.

Ser. No. 306,962. PHOENIX-DETROIT BURNER CORPORATION, Detroit, Mich. Filed Oct. 20, 1930.

ELECTRIC BRAIN

The word "Electric" is disclaimed apart from the mark shown.
For Oil Burners and Parts Therefor.
Claims use since Sept. 26, 1930.

CLASS 35

Belting, Hose, Machinery Packing, and Nonmetallic Tires

Ser. No. 297,173. C. LEE COOK MANUFACTURING COMPANY, Louisville, Ky. Filed Mar. 12, 1930.



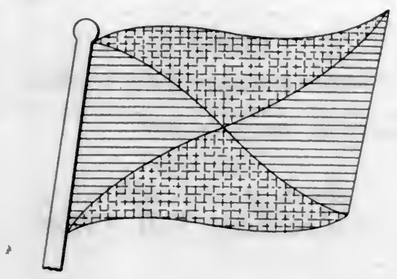
The representation of the goods aside from the arbitrary assemblage and association with the other features of the mark is disclaimed in so far as registration is concerned.
For Metallic Rod Packings.
Claims use since Mar. 1, 1929.

Ser. No. 297,174. C. LEE COOK MANUFACTURING COMPANY, Louisville, Ky. Filed Mar. 12, 1930.

COOKTITE

For Piston Rings.
Claims use since Apr. 1, 1929.

Ser. No. 301,628. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed May 29, 1930.



The line shading in the drawing indicates the colors blue and gold.
For Rubber and/or Rubber and Fabric Washers, Slush-Pump Sleeves, Stuffing-Box Rings, Band-Saw Bands, Gaskets, Rubber and/or Rubber and Fabric Packing Discs, Square and Rectangular Cross-Sectional Packing Rings Made of Rubber and/or Rubber and Fabric, Plumbers' Force Cups, Pipe-Coupling Rings, Rubber and/or Rubber and Fabric Diaphragm Sheets and/or Packing, Rubber and/or Rubber and Fabric Bushings for Machinery Packing, and Rubber and/or Rubber and Fabric Tires for Caster Wheels.
Claims use since July, 1929.

Ser. No. 307,268. DETROIT GASKET & MANUFACTURING COMPANY, Detroit, Mich. Filed Oct. 28, 1930.

Steelbestos

For Gaskets.
Claims use since Oct. 14, 1930.

Ser. No. 307,269. DETROIT GASKET & MANUFACTURING COMPANY, Detroit, Mich. Filed Oct. 28, 1930.

Steelbestos
THE GASKET WITH A BACKBONE

No claim is made to the word "Gasket" or the representation of a gasket except in the association shown.
For Gaskets.
Claims use since Oct. 14, 1930.

Ser. No. 307,695. BELKNAP HARDWARE & MANUFACTURING COMPANY, Louisville, Ky. Filed Nov. 10, 1930.

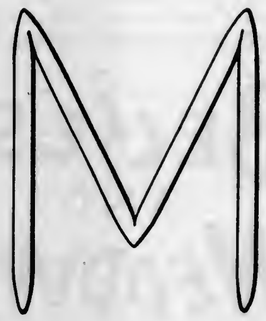
BLUE BLUE GRASS GRASS

For Pneumatic Tires and Inner Tubes.
Claims use since January, 1916.

CLASS 36

Musical Instruments and Supplies

Ser. No. 306,782. MULTIPLE MFG. CORPORATION, Chicago, Ill. Filed Oct. 15, 1930.



For Phonograph Needles.
Claims use since Sept. 1, 1930.

CLASS 37

Paper and Stationery

Ser. No. 298,392. J. W. GUTTKNECHT, Stein, near Nuremberg, Germany. Filed Apr. 4, 1930. Under 10-year proviso.

J. W. Guttknecht

For Lead Pencils, Pencil Holders, Coloured Pencils, Pastel Crayons, Mechanical Pencils, Artists' Pencils and Refills for Same, Copying Pencils, Copying Ink Pencils; Writing, Drawing, Painting, Billiard, and Marking Chalks; Chalk Pencils, Chalk Holders, Slate Pencils, Rubber Pencils, Slates, Blotters, Penholders, Fountain Pens, Erasive Rubber, Rubber Tablets, Pen Boxes, Stumps, Letter Stands, Pen Cups, Letter Folders, Pencil Sharpeners, Pencil Files, Rubber Bands (Rubber in Shape of Bands), Tracing Cloth.
Claims use since May 8, 1875.

Ser. No. 303,742. FALL RIVER RETAIL GROCERS AND MARKETMEN'S ASSOCIATION, Fall River, Mass. Filed July 23, 1930.

HOME CIRCLE

For Toilet Tissue.
Claims use since May 1, 1928.

Ser. No. 306,857. EDWARDS & DEUTSCH LITHOGRAPHING COMPANY, Chicago, Ill. Filed Oct. 17, 1930.

SAV-A-HOME GRAM

For Letter Heads, Correspondence Forms, and Partially-Printed Forms Sold as Such.
Claims use since July 8, 1930.

Ser. No. 306,858. EDWARDS & DEUTSCH LITHOGRAPHING COMPANY, Chicago, Ill. Filed Oct. 17, 1930.

SANTA-GRAM

For Letter Heads, Correspondence Forms, and Partially-Printed Forms Sold as Such.
Claims use since July 8, 1930.

Ser. No. 306,859. EDWARDS & DEUTSCH LITHOGRAPHING COMPANY, Chicago, Ill. Filed Oct. 17, 1930.

VOTERGRAM

For Letterheads, Correspondence Forms, and Partially-Printed Forms Sold as Such.
Claims use since July 8, 1930.

Ser. No. 306,995. THE COOKE & COBB COMPANY, Brooklyn, N. Y. Filed Oct. 21, 1930.

SUPER-TEX

For Expanding Files, Pocket Wallets (Filing Devices), Filing Covers, Binders, Folders, and Envelopes for Holding Letters, Documents, and the Like.
Claims use since Aug. 15, 1930.

Ser. No. 307,059. ROYAL CARD & PAPER CO., INC., New York, N. Y. Filed Oct. 22, 1930.

VANITY

For Decorated Vellum and Bristol Papers.
Claims use since Jan. 10, 1927.

Ser. No. 307,098. KIMBERLY-CLARK CORPORATION, Neenah, Wis. Filed Oct. 23, 1930.

WISCONSIN TRIBAL

For Cover Papers.
Claims use since Sept. 4, 1928.

Ser. No. 307,159. EBERHARD FABER PENCIL COMPANY, Brooklyn, N. Y. Filed Oct. 25, 1930.

Colorbrite

For Rubber Bands and Erasers.
Claims use since Aug. 1, 1930.

CLASS 38

Prints and Publications

Ser. No. 290,820. CHILDS, JEFFRIES & CO., INCORPORATED, Boston, Mass. Filed Oct. 9, 1929.

"THE CHAIN-STORE INVESTMENT COUNSELLOR"

For Publications and Reports Issued at Intervals.
Claims use since July 1, 1929.

Ser. No. 305,385. ASSOCIATED FRENCH ARTISTS, INC., New York, N. Y. Filed Sept. 6, 1930.

AFA

For Designs, Drawings, and Illustrations Used in the Manufacture of Silks and Other Textiles.
Claims use since May 1, 1930.

Ser. No. 307,331. ROLAND L. STRATFORD, doing business as R. S. Lawrence, Cleveland, Ohio. Filed Oct. 29, 1930.

"FORTUNE SMILES"

For a Series of Articles Appearing in Daily Newspapers.
Claims use since Oct. 3, 1930.

Ser. No. 307,402. KING FEATURES SYNDICATE, INC., New York, N. Y. Filed Oct. 31, 1930.

Blondie

For Comic Strip or Cartoon.
Claims use since Sept. 8, 1930.

Ser. No. 307,415. NEWSPAPER FEATURE SERVICE, INC., New York, N. Y. Filed Oct. 31, 1930.

BELLES AND WEDDING BELLS

For Comic Strip or Cartoon.
Claims use since June 22, 1930.

Ser. No. 307,478. THE CONDE NAST PUBLICATIONS, INC., New York, N. Y. Filed Nov. 3, 1930.

TIPS ON THE SHOP MARKET

BY SHOP HOUND

For Magazine Section.
Claims use since Oct. 13, 1930.

Ser. No. 307,583. CHENEY BROTHERS, South Manchester, Conn. Filed Nov. 6, 1930.

FABRIC-INTO-FASHION

For Pictorial Publications.
Claims use since Oct. 2, 1930.

CLASS 39

Clothing

Ser. No. 255,222. BIRMINGHAM WHOLESALE CORPORATION, INC., Birmingham, Ala. Filed Sept. 26, 1927.

3 POINT

No claim is made to the words "Beauty," "Wear," and "Comfort" except in association with the other features of the mark as shown.
For Garters and Neckties.
Claims use since January, 1926.

Ser. No. 300,070. MAGNIN & CO., San Francisco, Calif. Filed May 7, 1930.

I. MAGNIN & CO.
Ranleigh
YOUTHFUL FASHIONS

Applicant disclaims any right to the exclusive use of the expression "Youthful Fashions" aside from the mark as shown.
For Women's, Misses', Children's, and Infants' Gowns, Dresses, Skirts, Suits, Waists, Vests, Blouses; Lingerie Consisting Specifically of Nightgowns, Step-ins, Drawers, Chemises, and Brassières; Underwear, Corsets; Robes Consisting Specifically of Lounging Robes, Tea Gowns, Pajamas, and Negligees; Bath Robes, Dressing Gowns, Kimonos, Negligees, Wraps, Coats, Capes, Raincoats, Sweaters, Scarfs, Fur Coats, Fur Neckpieces, Hats; Gloves of Leather, Fabric, and Combinations Thereof; Hosiery, Boots, Shoes, and Slippers, Each of the Latter Three Being of Leather, Fabric, and Combinations thereof.
Claims use since Dec. 1, 1929.

Ser. No. 303,034. PERKINS HOSIERY MILLS, Columbus, Ga. Filed July 1, 1930.

Sleepie-Shorts

No claim is made to the word "Shorts" apart from the word "Sleepie."
For Pajamas.
Claims use since June 14, 1930.

Ser. No. 303,503. CRESCENT SHOE COMPANY, New York, N. Y. Filed July 15, 1930.

DR. COPLAND'S Light Weight SHOES

No claim being made to the words "Light Weight" and "Shoes" apart from the mark shown.
For Leather Shoes.
Claims use since May, 1930.

Ser. No. 304,059. MILWAUKEE GLOVE COMPANY, Milwaukee, Wis. Filed July 31, 1930.

LA SALLE

For Cloth and Leather Gloves and Mittens.
Claims use since July 18, 1930.

Ser. No. 305,098. PHILIP S. BLOOM CO., Chicago, Ill. Filed Aug. 28, 1930.

Phil-Maid

For Women's Rayon Panties, Underdrawers Known as Step-Ins, Bloomers, Vests, Nightgowns, Pajamas, Slips, Pettislips, Chemises, Bandeaus, and Bandeau Combinations Consisting of Knit and Rayon Bloomers with Elastic Knee, Pantie Bottom, and with Bodice Top or with Brassiére Top.
Claims use since Jan. 1, 1930.

Ser. No. 305,156. CLOTHIERS CORPORATION, Chicago, Ill. Filed Aug. 30, 1930.

Hi-Spot

For Men's and Boys' Suits, Overcoats, Trousers, Knickers, Hats, Caps, Flannel Shirts, Dress Shirts, Negligee Shirts, Work Shirts, Leather Gloves, Fabric and Rubber Raincoats, Overalls, Leather Shoes, Canvas Shoes, Leather and Fabric Slippers, Rubbers, Fabric and Rubber Galoshes, Sweaters, Cravats, Scarfs, Cut and Sewn Underwear, Knitted and Rayon Underwear; Cotton, Silk, Lisle, and Wool Hosiery; Fabric and Rubber Suspenders, Garters, Leather and Fabric Belts for Outer Wear.
Claims use since Aug. 12, 1930.

Ser. No. 305,870. THE E. RICHARD MEINIG CO., Reading, Pa. Filed Sept. 19, 1930.

Celsan

For Gloves, Hosiery, and Underwear for Men, Women, and Children, Made of Silk, Both Real and Synthetic.
Claims use since Sept. 6, 1930.

Ser. No. 306,171. CLINTON SHOE MFG. CO., Clinton, Iowa. Filed Sept. 29, 1930.

CLINTON
VITA $5 $6.50 PEDIC
DRESS SHOE

Applicant disclaims the words "Clinton," "$5," "$6.50," and "Dress Shoe" apart from the mark as shown.
For Shoes.
Claims use since Sept. 18, 1930.

Ser. No. 306,610. MCCARRACH ORGANIZATION INCORPORATED, New York, N. Y. Filed Oct. 10, 1930.

ZEPHELINE

For Men's Dress Shirts.
Claims use since Oct. 1, 1930.

Ser. No. 306,704. KUNHARDT & COMPANY, INC., New York, N. Y. Filed Oct. 13, 1930.

Janslip

For Ladies' Underwear Garments.
Claims use since Sept. 15, 1930.

Ser. No. 306,828. NEW ERA SHIRT CO., St. Louis, Mo. Filed Oct. 16, 1930.

MASCOT

For Boys' Wash and Wool Suits, Shirts, and Blouses.
Claims use since Sept. 1, 1930.

Ser. No. 306,868. WALTER W. MOYER, Ephrata, Pa. Filed Oct. 17, 1930.

ORVETTA

For Men's, Women's, and Children's Underwear.
Claims use since Oct. 14, 1930.

Ser. No. 307,071. THOMAS MILLS, INC., High Point, N. C. Filed Oct. 22, 1930.

Conquest

For Hosiery.
Claims use since Oct. 2, 1930.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 303,197. J. B. MARTIN COMPANY, Norwich, Conn. Filed July 7, 1930.

ELEKTRA

For Silk Velvets in the Piece.
Claims use since June 24, 1930.

Ser. No. 305,651. WALTER G. BRETZFIELD, doing business as Walter G. Bretzfield Company, New York, N. Y. Filed Sept. 13, 1930.

Shadoray

For Textile Fabrics of Cotton, Artificial Silk, and Wool.
Claims use since July 15, 1930.

Ser. No. 305,706. W. T. GRANT COMPANY, Lynn, Mass., and New York, N. Y. Filed Sept. 15, 1930.

Doris-Marie

For Made-Up Table Cloths of Cotton Damask.
Claims use since Aug 1, 1930.

Ser. No. 306,183. WILLIAM HOLLINS & COMPANY, LIMITED, Nottingham and London, England. Filed Sept. 29, 1930.

TINY TOTS

For Cloths and Stuffs of Wool, Worsted, or Hair in the Piece.
Claims use since Apr. 15, 1908.

Ser. No. 306,271. LESHER, WHITMAN & CO., INC., New York, N. Y. Filed Oct. 1, 1930.

TRANSLUCO

For Piece Goods, Being a Fabric with a Warp of Cotton, or of Cotton and Mohair Mixed, or of Cotton and Silk Mixed, or of Cotton and Artificial Silk Mixed, and a Filling of Wool, or Cotton, or Mohair, or Alpaca, or Silk, or Artificial Silk, Singly or Combined, and Made-Up Draperies.
Claims use since Sept. 26, 1930.

Ser. No. 306,399. HIGHTSTOWN RUG COMPANY, Hightstown, N. J. Filed Oct. 4, 1930.

HIRUSTAN

For Rugs and Carpets of Textile Fabrics.
Claims use since August, 1930.

Ser. No. 306,903. MATTHEW W. RYAN SONS & CO. INC., New York, N. Y. Filed Oct. 18, 1930.

CREPE CELAINE

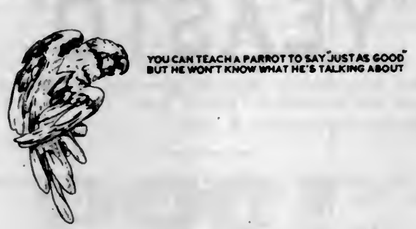
No claim being made to the exclusive use of the word "Crepe" apart from the mark as shown in the drawing.
For Linen, Cotton, and Silk Piece Goods and Mixtures Thereof.
Claims use since Mar. 1, 1930.

Ser. No. 307,096. THE INTERNATIONAL HANDKERCHIEF MFG. CO., New York, N. Y. Filed Oct. 23, 1930.



For Handkerchiefs.
Claims use since January, 1928.

Ser. No. 307,097. THE INTERNATIONAL HANDKERCHIEF MFG. CO., New York, N. Y. Filed Oct. 23, 1930.



For Handkerchiefs.
Claims use since February, 1912.

Ser. No. 307,525. DETMER, BRUNER & MASON, INC., New York, N. Y. Filed Nov. 4, 1930.

COUNTRY LIFE

For Woolen and Worsted Fabrics in the Piece.
Claims use since Sept. 30, 1930.

Ser. No. 307,617. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Nov. 7, 1930.

DURANESE

For Fabrics Made Wholly or Partially of Cellulose Derivatives.
Claims use since Nov. 5, 1930.

Ser. No. 307,701. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Nov. 10, 1930.

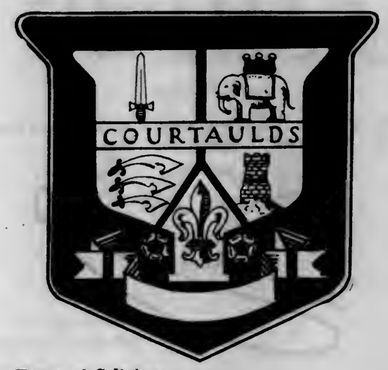
CELADORE

For Fabrics Made Wholly or Partially of Cellulose Derivatives.
Claims use since Nov. 8, 1930.

CLASS 43

Thread and Yarn

Ser. No. 306,938. COURTAULDS, LIMITED, London, England. Filed Oct. 20, 1930.



For Yarns of Cellulose.
Claims use since Feb. 14, 1930.

Ser. No. 306,939. COURTAULDS, LIMITED, London, England. Filed Oct. 20, 1930.

COURTAULDS

For Yarns of Cellulose.
Claims use since 1910.

Ser. No. 307,618. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Nov. 7, 1930.

DURANESE

For Yarns or Threads.
Claims use since Nov. 5, 1930.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 300,623. STAFS ALLAN EDVARD FREDRIKSSON, Flen, Sweden, assignor to Aktiebolaget Mavello, Stockholm, Sweden, a Corporation of Sweden. Filed May 16, 1930.

MAVELLO

For All Kinds of Cloths, Fabrics, Skins, and Compresses Impregnated with Radioactive Substances Used for Therapeutic Purposes.
Claims use since June 30, 1928.

Ser. No. 301,469. JOSEPH LEESE, Boston, Mass. Filed May 28, 1930.

curlette

For Permanent-Waving Pads.
Claims use since Jan. 22, 1930.

Ser. No. 306,516. THE BIOTHERM COMPANY, Los Angeles, Calif. Filed Oct. 7, 1930.

Biotherm

For Electrically-Heated Garments Used for Therapeutic Purposes—Namely, Kimonos, Pyjamas, Coveralls, and Blankets.
Claims use since Sept. 11, 1930.

Ser. No. 306,855. DENNISON MANUFACTURING COMPANY, Framingham, Mass. Filed Oct. 17, 1930.



BABYPADS

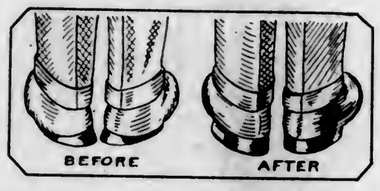
No registration rights are claimed in the words "Baby Pads."
For Sanitary Paper Diapers.
Claims use since April, 1930.

Ser. No. 306,955. LAWRENCE LEDERER, doing business as Nutex Sales Co., Philadelphia, Pa. Filed Oct. 20, 1930.

LIFE GUARD

For Prophylactic Articles Made of Rubber for the Prevention of Contagious Diseases.
Claims use since Oct. 10, 1930.

Ser. No. 306,968. THE SCHOLL MFG. CO., INC., Chicago, Ill. Filed Oct. 20, 1930.



The words "Before—After" are herewith disclaimed apart from the mark as shown on the drawing.
For Heel Pads, a Foot-Corrective Appliance.
Claims use since Jan. 5, 1917.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 299,850. ARTHUR CALDER LYONS, Brantford, Ontario, Canada. Filed May 2, 1930.

'YEASTO'

For Nonalcoholic, Maltless Beverages Sold as Soft Drinks and Extracts for Making Same.
Claims use since Feb. 3, 1930.

Ser. No. 302,080. STEELE-WEDELES COMPANY, Chicago, Ill. Filed May 31, 1930. Under 10-year proviso.

SAVOY

For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.
Claims use since 1894.

Ser. No. 305,476. BELTON BOTTLING CO., Belton, S. C. Filed Sept. 9, 1930.

PINDAR
PUNCH

No claim is made to the exclusive use of the word "Punch."
For Carbonated, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.
Claims use since Mar. 1, 1914.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 289,148. EMMENTAL CHEESE CORPORATION, New York, N. Y. Filed Aug. 29, 1929.

EMMENTAL MAID

For Cheese.
Claims use since Aug. 26, 1929.

Ser. No. 290,696. MARTIN ROBERT GARRETSON, Hoboken, N. J. Filed Oct. 5, 1929.

BAKECROFTERS
The REAL FOOD BAKERS of America

PURITY~HONESTY
QUALITY

The words "Purity," "Honesty," and "Quality" are disclaimed apart from the other features of the mark shown in the drawings.
For Bread, Rolls, Biscuits, Cakes, Cookies, Crackers, Pies, French Pastries, Doughnuts, Buns, Scones, Tarts, Cup Cakes, Fruit Rings, Fudge, Cream Puff.
Claims use since September, 1928.

Ser. No. 291,473. FRANK M. POOL, INC., Fresno, Calif. Filed Oct. 23, 1929.

POOL

For Fresh Grapes.
Claims use since Sept. 24, 1929.

Ser. No. 292,115. NATIONAL GROCER COMPANY, Detroit, Mich. Filed Nov. 7, 1929.

LIGHT HOUSE



For Pop Corn in Its Natural State.
Claims use since September, 1924

Ser. No. 292,340. HENRY TREFFINGER, New York, N. Y. Filed Nov. 12, 1929.



For Horse-Radish, Horse-Radish and Beets, Pickled Beets, Pickled Onions, Pickled Tomatoes, Pickled Peppers, Dill Pickles, Vinegar Pickles, Mixed Pickles, Chowchow, Spiced Mussels, Mustard, Pepper Relish, Pickle Relish, Chowchow Relish, Catsup, Salt Codfish, Shredded Codfish, Smoked Bloaters, Boneless Herring, Clam Chowder, Fish Cakes, Cider Vinegar, White Vinegar, Hot Cherry Peppers Canned and Bottled, Pickled Red Cabbage, Salad Oil.
Claims use since September, 1904.

Ser. No. 293,773. GRECO CANNING COMPANY, INC., San Jose, Calif. Filed Dec. 17, 1929.

DE-LUXE



For Tomato Paste.
Claims use since 1916.

Ser. No. 296,180. EXCELSIOR MACARONI COMPANY, INC., Brooklyn, N. Y. Filed Feb. 18, 1930.

ABRUZZESE

For Macaroni.
Claims use since Sept. 1, 1929.

Ser. No. 297,901. FRED F. FIELD HOLSTEINS DUTCHLAND FARMS TRUSTEES, Brockton, Mass. Filed Mar. 26, 1930.

DUTCHLAND FARMS

For Milk, Cream, Ice Cream, Butter, and Cheese.
Claims use since 1903.

Ser. No. 297,903. FRED F. FIELD HOLSTEINS DUTCHLAND FARMS TRUSTEES, Brockton, Mass. Filed Mar. 26, 1930.

Dutchland Made

Applicant disclaims any attempt to cover in this registration the word "Made" so far as any merely descriptive significance is concerned except in the relation and/or association in which it appears in the drawing.

For Ice Cream.

Claims use since September, 1922.

Ser. No. 299,223. OULLIBER COFFEE COMPANY, New Orleans, La. Filed Apr. 21, 1930.



The outline of container is disclaimed. The conventional lining for colors shown on the drawing represents red and green.

For Coffee.

Claims use since Sept. 1, 1929.

Ser. No. 299,382. FRED F. FIELD HOLSTEINS DUTCHLAND FARMS TRUSTEES, Brockton, Mass. Filed Apr. 24, 1930.

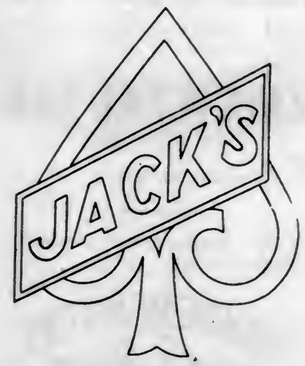


Applicant disclaims any attempt to cover in this registration the word "Greatest" so far as any merely descriptive significance is concerned except in connection with the mark shown on the drawing and/or in connection with the legend appearing thereon.

For Milk and Cream.

Claims use since August, 1907.

Ser. No. 299,700. J. P. GIBBONS, Jr., doing business as Peanut Products Company, Hamlet, N. C. Filed Apr. 30, 1930.



For Salted Peanuts and Roasted Peanuts.

Claims use since Apr. 19, 1930.

Ser. No. 300,358. ANTOINE MARTZOLF, City Island, N. Y. Filed May 12, 1930.



The portrait appearing on the drawing is that of Napoleon II.

For Food Products—Namely, Sandwiches, Cooked Vegetables, Cooked Beef, Mutton, Pork, and Chicken.

Claims use since Feb. 5, 1930.

Ser. No. 300,539. FRANCIS LE MOYNE PAGE, Carnegie, Pa. Filed May 14, 1930.

ANIMOODLES

For Alimentary Pastes—Namely, Noodle Dough Products.

Claims use since Dec. 1, 1929.

Ser. No. 303,040. WYOMING VALLEY SHERBET CO., Pittston, Pa. Filed July 1, 1930.

TULIP SQUEEZE

For Fruit-Flavored Iced Sherbets.

Claims use since Mar. 1, 1930.

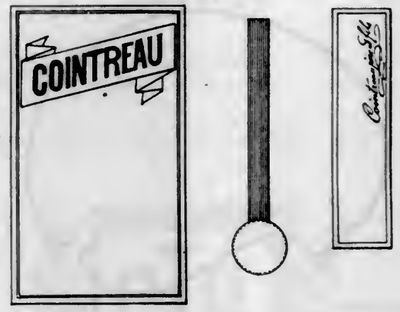
Ser. No. 303,634. ESKIMO PIE CORPORATION, doing business through its subsidiary New York Eskimo Pie Corporation, Louisville, Ky. Filed July 19, 1930.

MAGIC PIE

For Frozen Confections.

Claims use since Nov. 15, 1927.

Ser. No. 304,075. SOCIETE A RESPONSABILITE LIMITEE COINTREAU, Angers, France. Filed July 31, 1930.



Applicant is the owner of registration 94,714. The lining of the drawing indicates red. The signature "Cointreau Pere et Fils" is a facsimile signature written in the handwriting of Eduard Cointreau, now deceased, who was a member of the firm of Cointreau Pere & Fils, applicant's predecessor.

For Flavoring Sauces.

Claims use since Dec. 11, 1928.

Ser. No. 304,264. VITAMINT INC., New York, N. Y. Filed Aug. 5, 1930.

VITA-MINT

No claim is made to the word "Mint" apart from the trade-mark shown in the drawing.

For Chewing Gum.

Claims use since Aug. 1, 1930.

Ser. No. 304,353. WAYNE H. SWITZER, doing business as Royal Novelty Co., Cromwell, Ind. Filed Aug. 7, 1930.

Monkey Dinner

For Food Product Composed of Ripe Banana Covered with Chocolate and Frozen.

Claims use since Apr. 26, 1930.

Ser. No. 304,777. MCILHENNY COMPANY, New Iberia, La. Filed Aug. 19, 1930.



No claim is made to the wording appearing on the drawing with the exception of the word "Tabasco" and the applicant's name, which are specifically claimed. Applicant is the owner of registration No. 223,310, Feb. 1, 1927.

For Pepper Sauce.

Claims use since Aug. 1, 1930.

Ser. No. 305,027. BEATRICE CREAMERY COMPANY, Chicago, Ill. Filed Aug. 26, 1930.

DAIRY LAND

For Butter.

Claims use since October, 1916.

Ser. No. 305,066. H. BABON & CO. INC., New York and Brooklyn, N. Y. Filed Aug. 27, 1930.

JACK-A-DANDY

For Bottled Fruits and Fruit Syrups to be Used on Ice Cream, Jams, Jellies, and Fruit Preserves, and a Chocolate Specialty to be Used in the Coating of Ice Cream.

Claims use since February, 1925.

Ser. No. 305,072. JOSEPH FIERMAN, Brooklyn, N. Y. Filed Aug. 27, 1930.



No claim being made to the word "Brand" apart from the mark shown.

For Onions in Their Natural State.

Claims use since July, 1929.

Ser. No. 305,534. NESTLÉ'S MILK PRODUCTS, INC., New York, N. Y. Filed Sept. 10, 1930.

Hylac

For Infants' Food.
Claims use since Sept. 22, 1908.

Ser. No. 305,846. THE BOWITA COMPANY, Fond du Lac, Wis. Filed Sept. 19, 1930.

HELLO WORLD

For Candy.
Claims use since May 2, 1929.

Ser. No. 306,033. THE CAPITAL CITY PRODUCTS COMPANY, Columbus, Ohio. Filed Sept. 24, 1930.

PLASTEX

For Refined Vegetable Oil Hydrogenated to Various Melting Points.
Claims use since Apr. 10, 1930.

Ser. No. 306,744. PERRY CANNING CO., Perry, Utah. Filed Oct. 14, 1930.

Golden "Q"

For Canned Vegetables.
Claims use since Sept. 23, 1930.

Ser. No. 306,749. STONE BAKING COMPANY, Atlanta, Ga. Filed Oct. 14, 1930.

MILKTWYST

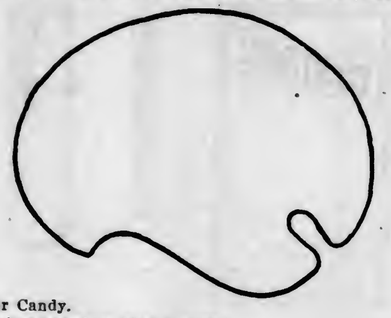
For Bakery Products—Namely, Bread.
Claims use since Sept. 17, 1930.

Ser. No. 306,899. THE FRANK PEPE MACARONI COMPANY, Waterbury, Conn. Filed Oct. 18, 1930.



The picture of the girl is fanciful.
For Macaroni.
Claims use since Aug. 16, 1929.

Ser. No. 306,970. THE SHOTWELL MFG. CO., doing business as Shotwell's, Chicago, Ill. Filed Oct. 20, 1930.



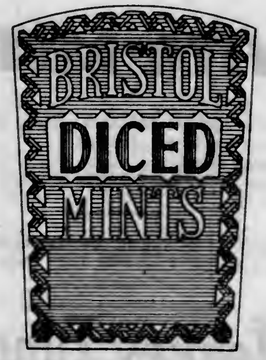
For Candy.
Claims use since May 1, 1930.

Ser. No. 306,971. THE SHOTWELL MFG. CO., doing business as Shotwell's, Chicago, Ill. Filed Oct. 20, 1930.

PALETTE

For Candy.
Claims use since May 1, 1930.

Ser. No. 307,088. BRANDLE & SMITH CO., Philadelphia, Pa. Filed Oct. 23, 1930.



In the drawing illustrating the trade-mark, the characters of the word "Diced" are in red against a blue back ground. The words "Diced Mints" are disclaimed apart from the mark shown in the drawing.
For Candy.
Claims use since Oct. 15, 1930.

Ser. No. 307,357. HUDSON DISTRIBUTING CO., INC., Orlando, Fla. Filed Oct. 30, 1930.

MOTOR COP

For Fresh Citrus Fruits, Fresh Deciduous Fruits, and Fresh Vegetables.
Claims use since June 1, 1927.

Ser. No. 307,411. CHARLES J. MAGEE, doing business as Wilson Hartnett Candy Co., Chicago, Ill. Filed Oct. 31, 1930.

HACK 'N' GABBY

For Confectionery—Namely, Candy.
Claims use since Oct. 27, 1930.

Ser. No. 307,453. HELEN LOUISE MOORE, Washington, D. C. Filed Oct. 22, 1930.



For Cakes.
Claims use since Oct. 1, 1926.

Ser. No. 307,736. ROSENBERG & GALLANT, Bronx, N. Y. Filed Nov. 10, 1930.

R & G

For Canned Fish.
Claims use since July 1, 1930.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 299,957. CORDO-HYDE COMPANY, Brockton, Mass. Filed May 5, 1930.

GA-LITE

For Shoe Trees and Forms.
Claims use since Mar. 17, 1930.

Ser. No. 306,583. THE YOUNGSTOWN WELDING & ENGINEERING CO., Youngstown, Ohio. Filed Oct. 9, 1930.

WELDCO

For Stepladder Stools.
Claims use since Jan. 1, 1922.

Ser. No. 306,729. CINCINNATI ADVERTISING PRODUCTS CO., Cincinnati, Ohio. Filed Oct. 14, 1930.



The exclusive use of "Our Glass Signs Sell Millions" and "24 Hours Every Day" is not claimed apart from the mark shown.
For Reflecting Signs, Glass Signs, Illuminated Counter and Window Advertising-Sign Boxes, and Advertising-Sign Globes.
Claims use since July 8, 1930.

Ser. No. 307,400. HOLGATE BROTHERS COMPANY, Kane, Pa. Filed Oct. 31, 1930.



For Chopping Board for Breads, Meats, Vegetables, and Other Raw and Cooked Articles of Food.
Claims use since Oct. 1, 1930.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

DECEMBER 16, 1930

278,279. COTTON GOODS IN THE PIECE AND COTTON AND SILK GOODS IN THE PIECE AND ARTIFICIAL-SILK GOODS IN THE PIECE. ROSSMAN BROTHERS & MESSNER, INC., New York, N. Y.
Filed August 5, 1930. Serial No. 304,252. PUBLISHED SEPTEMBER 30, 1930. Class 42.

278,280. LUBRICATING OILS AND GREASES. GEORGIA-CAROLINA OIL COMPANY, Macon, Ga.
Filed August 5, 1930. Serial No. 304,240. PUBLISHED SEPTEMBER 30, 1930. Class 15.

278,281. ELECTRICAL VACUUM CLEANERS. THE P. A. GEIER COMPANY, Cleveland, Ohio.
Filed August 2, 1930. Serial No. 304,134. PUBLISHED SEPTEMBER 30, 1930. Class 21.

278,282. ASSEMBLED INSULATING KNOBS. PORCELAIN PRODUCTS, INC., Findlay, Ohio.
Filed July 31, 1930. Serial No. 304,065. PUBLISHED SEPTEMBER 30, 1930. Class 21.

278,283. THREADS, YARNS, AND FILAMENTS OF ARTIFICIAL SILK. SOCIÉTÉ DE LA VISCOSE SUISSE, Emmenbrucke, Switzerland.
Filed August 21, 1930. Serial No. 304,893. PUBLISHED SEPTEMBER 30, 1930. Class 43.

278,284. TEXTILE FIBRES OF ALL KINDS, ARTIFICIAL STRAW, ARTIFICIAL HORSEHAIR, SILK, ARTIFICIAL SILK, COTTON, AND WOOL IN THE FORM OF YARN, THREAD, OR FILAMENTS. SOCIÉTÉ DE LA VISCOSE SUISSE, Emmenbrucke, Switzerland.
Filed August 21, 1930. Serial No. 304,892. PUBLISHED SEPTEMBER 30, 1930. Class 43.

278,285. THREADS, YARNS, AND FILAMENTS OF ARTIFICIAL SILK, ARTIFICIAL HORSEHAIR, OR ARTIFICIAL STRAW. SOCIÉTÉ DE LA VISCOSE SUISSE, Emmenbrucke, Switzerland.
Filed August 21, 1930. Serial No. 304,891. PUBLISHED SEPTEMBER 30, 1930. Class 43.

278,286. SHEETS AND PILLOWCASES. NASHUA MANUFACTURING COMPANY, Nashua, N. H., and Boston, Mass.
Filed August 20, 1930. Serial No. 304,824. PUBLISHED SEPTEMBER 30, 1930. Class 42.

278,287. WORSTED AND WOOLEN FABRICS. HOLDEN-LEONARD COMPANY, New York, N. Y.
Filed August 20, 1930. Serial No. 304,818. PUBLISHED SEPTEMBER 30, 1930. Class 42.

278,288. WORSTED AND WOOLEN FABRICS. HOLDEN-LEONARD COMPANY, New York, N. Y.
Filed August 20, 1930. Serial No. 304,817. PUBLISHED SEPTEMBER 30, 1930. Class 42.

278,289. BILLIARD, POOL, SNOOKER, AND BAGATELLE BALLS. ALBANY BILLIARD BALL CO., Albany, N. Y.
Filed August 19, 1930. Serial No. 304,747. PUBLISHED SEPTEMBER 30, 1930. Class 22.

278,290. RADIO APPARATUS, AND SPECIFICALLY RADIO RECEIVING SETS. THE KIEL FURNITURE CO., Milwaukee, Wis.
Filed July 28, 1930. Serial No. 303,907. PUBLISHED SEPTEMBER 30, 1930. Class 21.

278,291. COMPLETE PORTABLE ARCHERY RANGES, BOWS, ARROWS, AND TARGETS. EDGAR E. JARRETT, New Rochelle, N. Y.
Filed July 23, 1930. Serial No. 303,747. PUBLISHED SEPTEMBER 30, 1930. Class 22.

278,292. BRACELETS. JOSEPH GRANAT, doing business as Granat Bros., San Francisco, Calif.
Filed July 19, 1930. Serial No. 303,640. PUBLISHED SEPTEMBER 30, 1930. Class 28.

278,293. LUBRICATING OILS AND GREASES. JESCO LUBRICANTS CO., North Kansas City, Mo.
Filed July 12, 1930. Serial No. 303,443. PUBLISHED SEPTEMBER 30, 1930. Class 15.

278,294. FINGER RINGS. JOSEPH GRANAT, doing business as Granat Bros., San Francisco, Calif.
Filed July 12, 1930. Serial No. 303,436. PUBLISHED SEPTEMBER 30, 1930. Class 28.

278,295. ELECTRICAL CONDUCTORS. UNITED STATES RUBBER COMPANY, New York, N. Y.
Filed July 10, 1930. Serial No. 303,354. PUBLISHED SEPTEMBER 30, 1930. Class 21.

278,296. GASOLINE, NAPTHA, LUBRICATING OILS AND GREASES, KEROSENE, FUEL OILS, AND MOTOR FUELS IN WHICH A CHIEF CONSTITUENT IS GASOLINE. WHITE STAR REFINING COMPANY, Detroit, Mich.
Filed July 7, 1930. Serial No. 303,233. PUBLISHED SEPTEMBER 30, 1930. Class 15.

278,297. ELECTRICAL PORTABLE WATER HEATERS. LUX-VISEL COMPANY, Elkhart, Ind.
Filed July 2, 1930. Serial No. 303,061. PUBLISHED SEPTEMBER 30, 1930. Class 21.

278,298. RADIO GROUNDS, RADIO AERIALS, SELECTIVE RADIO AERIALS, SELECTIVE RADIO GROUNDS, AND AERIAL MOUNTINGS. FREDERICK J. VONDENBOSH, Los Angeles, Calif.
Filed June 30, 1930. Serial No. 303,016. PUBLISHED SEPTEMBER 30, 1930. Class 21.

278,299. MARINE INSTRUMENTS—NAMELY, AN INSTRUMENT FOR INDICATING THE DIRECTION AND SPEED OF A PROPELLER SHAFT AND THE TOTAL NUMBER OF REVOLUTIONS MADE BY THE PROPELLER SHAFT. ALEXANDER MCNAB, Bridgeport, Conn.
Filed May 31, 1930. Serial No. 301,979. PUBLISHED OCTOBER 7, 1930. Class 26.

278,300. MATTRESSES, BOX SPRINGS, AND PILLOWS. PHILIP STRAUSS, Nanticoke, Pa.
Filed May 24, 1930. Serial No. 301,215. PUBLISHED OCTOBER 7, 1930. Class 32.

278,301. FRESH VEGETABLES. VENICE CELERY DISTRIBUTORS, Los Angeles, Calif.
Filed August 26, 1930. Serial No. 305,062. PUBLISHED OCTOBER 7, 1930. Class 46.

278,302. FRESH GRAPES. A. J. STURTEVANT, Fresno, Calif.
Filed August 26, 1930. Serial No. 305,057. PUBLISHED OCTOBER 7, 1930. Class 46.

278,303. FRESH CITRUS FRUITS, FRESH DATES, FRESH GRAPES. A. B. CLIFF, doing business as Racing Teal Ranch, Pasadena and Thermal, Calif.
Filed August 26, 1930. Serial No. 305,035. PUBLISHED OCTOBER 7, 1930. Class 46.

278,304. CANDY CONFECTION. THE TROPICAL VITAMIN CO., INC., Orlando, Fla.
Filed August 25, 1930. Serial No. 305,005. PUBLISHED OCTOBER 7, 1930. Class 46.

278,305. CHEWING GUM COMPRISING A CORE OF CHEWING GUM AND A THICK COATING OR COVERING OF HARD CANDY. FRANK H. FLEER CORPORATION, Philadelphia, Pa.
Filed August 19, 1930. Serial No. 304,762. PUBLISHED OCTOBER 7, 1930. Class 46.

278,306. CHEWING GUM COMPRISING A CORE OF CHEWING GUM AND A THICK COATING OR COVERING OF HARD CANDY. FRANK H. FLEER CORPORATION, Philadelphia, Pa.
Filed August 19, 1930. Serial No. 304,761. PUBLISHED OCTOBER 7, 1930. Class 46.

278,307. SALTED PEANUTS. G. C. HOWELL, Fulton, Ky.
Filed August 15, 1930. Serial No. 304,661. PUBLISHED OCTOBER 7, 1930. Class 46.

278,308. FRICTION AND PYROPHORIC LIGHTERS. CROYDEN PRODUCTS, INC., New York, N. Y.
Filed August 14, 1930. Serial No. 304,607. PUBLISHED SEPTEMBER 30, 1930. Class 34.

278,309. METAL PIPE AND TUBING. THE YOUNGSTOWN SHEET & TUBE COMPANY, Youngstown, Ohio.
Filed August 11, 1930. Serial No. 304,481. PUBLISHED SEPTEMBER 30, 1930. Class 13.

278,310. CANDY. FRED W. AMEND CO., Chicago, Ill.
Filed July 31, 1930. Serial No. 304,030. PUBLISHED OCTOBER 7, 1930. Class 46.

278,311. PAPER TUBES AND CONES. SONOCO PRODUCTS COMPANY, Hartsville, S. C.
Filed July 30, 1930. Serial No. 304,017. PUBLISHED SEPTEMBER 30, 1930. Class 2.

278,312. CANDIES AND FROZEN CONFECTIONS GENERALLY COMPRISING A CORE OF ICE CREAM OR OTHER FROZEN MATERIAL COATED WITH CHOCOLATE OR OTHER CONFECTION MATERIAL. ESKIMO PIE CORPORATION, Louisville, Ky.
Filed July 18, 1930. Serial No. 303,598. PUBLISHED OCTOBER 7, 1930. Class 46.

278,313. GAS RANGES, COAL RANGES, AND COMBINATION GAS AND COAL RANGES. CROWN STOVE WORKS, Chicago, Ill.
Filed July 7, 1930. Serial No. 303,166. PUBLISHED SEPTEMBER 30, 1930. Class 34.

278,314. CHEWING GUM. THE HONEY CHEWING GUM CO., Chicago, Ill.
Filed July 3, 1930. Serial No. 303,113. PUBLISHED OCTOBER 7, 1930. Class 46.

278,315. BOAT OARS AND PADDLES. NEW YORK BOAT OAR COMPANY, INC., New York, N. Y.
Filed June 24, 1930. Serial No. 302,789. PUBLISHED SEPTEMBER 30, 1930. Class 19.

278,316. CANNED FRUITS, CANNED VEGETABLES, AND SAUERKRAUT. ROCKY MOUNTAIN PACKING CORPORATION, Salt Lake City, Utah.
Filed June 16, 1930. Serial No. 302,479. PUBLISHED SEPTEMBER 30, 1930. Class 46.

278,317. AUTOMOBILES AND STRUCTURAL PARTS THEREOF. PEERLESS MOTOR CAR CORPORATION, Cleveland, Ohio.
Filed June 5, 1930. Serial No. 302,185. PUBLISHED SEPTEMBER 30 1930. Class 19.

278,318. CANNED CORN. FARIBAULT CANNING COMPANY, Faribault, Minn.
Filed May 28, 1930. Serial No. 301,426. PUBLISHED SEPTEMBER 30, 1930. Class 46.

278,319. BLOCK OR PRESSED CHILI. WASHINGTON W. KING, Bronson, Tex.
Filed May 26, 1930. Serial No. 301,270. PUBLISHED OCTOBER 7, 1930. Class 46.

278,320. FRESH DECIDUOUS FRUITS. NEWBRY & SONS, Talent, Oreg.
Filed August 26, 1930. Serial No. 305,058. PUBLISHED OCTOBER 7, 1930. Class 46.

278,321. WASHING TABLETS. TYSON & COMPANY, INC., doing business as Johnson Products Company, Paris, Tenn.
Filed August 20, 1930. Serial No. 304,887. PUBLISHED OCTOBER 7, 1930. Class 4.

278,322. CALCIUM PREPARATION FOR TAKING IMPRESSIONS IN THE MOUTH. COE LABORATORIES, INC., Chicago, Ill.
Filed August 16, 1930. Serial No. 304,681. PUBLISHED OCTOBER 7, 1930. Class 44.

278,323. DENTURES. COE LABORATORIES, INC., Chicago, Ill.
Filed August 16, 1930. Serial No. 304,680. PUBLISHED OCTOBER 8, 1930. Class 44.

278,324. STEEL-WOOL PADS AND HOLDERS THEREFOR. MORRIS SHAPIRO, doing business as Newark Products Co., Newark, N. J.
Filed August 9, 1930. Serial No. 304,431. PUBLISHED SEPTEMBER 30, 1930. Class 4.

278,325. DRY-CLEANING FLUID AND POWDER. NO-RING CORPORATION, New York, N. Y.
Filed August 6, 1930. Serial No. 304,293. PUBLISHED OCTOBER 7, 1930. Class 4.

278,326. WOMEN'S SHOES MADE ENTIRELY OF LEATHER. SHERWOOD SHOE COMPANY, Rochester, N. Y.
Filed August 5, 1930. Serial No. 304,254. PUBLISHED SEPTEMBER 23, 1930. Class 39.

278,327. SHOES FOR MEN, WOMEN, AND CHILDREN, MADE OF LEATHER, FABRIC, CANVAS, OR COMBINATIONS THEREOF. HERMAN RUBIN, Bronx, N. Y.
Filed August 2, 1930. Serial No. 304,163. PUBLISHED SEPTEMBER 23, 1930. Class 39.

278,328. BOOTS AND SHOES OF LEATHER. INTERNATIONAL SHOE CO., St. Louis, Mo.
Filed August 2, 1930. Serial No. 304,145. PUBLISHED SEPTEMBER 23, 1930. Class 39.

278,329. ELASTIC BANDAGES FOR HORSES, PARTICULARLY RACE HORSES. KOPF MFG. CO., INC., New York, N. Y.
Filed July 31, 1930. Serial No. 304,053. PUBLISHED OCTOBER 7, 1930. Class 44.

278,330. GAUZE BANDAGES. INDEPENDENT DRUGGISTS' ALLIANCE DISTRIBUTING CO., Chicago, Ill.
Filed July 28, 1930. Serial No. 303,903. PUBLISHED OCTOBER 7, 1930. Class 44.

278,331. SILVER POLISH AND SHAVING CREAM. INDEPENDENT DRUGGISTS' ALLIANCE DISTRIBUTING CO., Chicago, Ill.
Filed July 28, 1930. Serial No. 303,890. PUBLISHED OCTOBER 7, 1930. Class 4.

278,332. LAUNDRY SOAP. JOSEPH DI SANTO, doing business as Di Santo & Co., Duluth, Minn.
Filed July 26, 1930. Serial No. 303,842. PUBLISHED SEPTEMBER 30, 1930. Class 4.

278,333. SHAVING CREAM AND SHAVING SOAP. ILIFF JONES, doing business as Iliff Jones Company, Pittsburgh, Pa.
Filed July 23, 1930. Serial No. 303,748. PUBLISHED OCTOBER 7, 1930. Class 4.

278,334. PERFUME AND MEDICINAL ATOMIZERS. MARCEL FRANCK, INC., New York, N. Y.
Filed July 23, 1930. Serial No. 303,743. PUBLISHED OCTOBER 7, 1930. Class 44.

278,335. LIQUID SOAP. FRANCIS J. FLOOD, Corona, N. Y.
Filed July 19, 1930. Serial No. 303,638. PUBLISHED SEPTEMBER 30, 1930. Class 4.

278,336. SOAPS AND SOAP PREPARATIONS. H. TH. BÖHME A. G., Chemnitz, Germany.
Filed July 19, 1930. Serial No. 303,622. PUBLISHED SEPTEMBER 30, 1930. Class 4.

278,337. SOAPS AND SOAP PREPARATIONS. H. TH. BÖHME A. G., Chemnitz, Germany.
Filed July 19, 1930. Serial No. 303,621. PUBLISHED SEPTEMBER 30, 1930. Class 4.

278,338. FOOTWEAR—NAMELY, SHOES OF LEATHER, FABRIC, AND COMBINATIONS THEREOF. VALLEY SHOE CORPORATION, St. Louis, Mo.
Filed July 14, 1930. Serial No. 303,497. PUBLISHED SEPTEMBER 23, 1930. Class 39.

278,339. AIR-PURIFYING APPARATUS, WHICH IS USED IN HOSPITALS, SICK ROOMS, ETC., FOR REMOVING OFFENSIVE ODORS. THE DOMESTIC ELECTRIC COMPANY, Kent and Cleveland, Ohio.
Filed July 10, 1930. Serial No. 303,320. PUBLISHED OCTOBER 7, 1930. Class 44.

278,340. LORGNETTES, EYEGLASSES, AND SPECTACLES AND CONSTITUENT PARTS THEREOF. LUGENE INC., New York, N. Y.
Filed August 29, 1930. Serial No. 305,140. PUBLISHED OCTOBER 7, 1930. Class 26.

278,341. LORGNETTES, EYEGLASSES, AND SPECTACLES AND CONSTITUENT PARTS THEREOF; OPERA GLASSES AND CAMERAS. LUGENE INC., New York, N. Y.
Filed August 29, 1930. Serial No. 305,139. PUBLISHED OCTOBER 7, 1930. Class 26.

278,342. BRAKE LININGS. THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn.
Filed August 27, 1930. Serial No. 305,090. PUBLISHED OCTOBER 7, 1930. Class 35.

278,343. FEED GRINDERS. WESTERN LAND ROLLER COMPANY, Hastings, Nebr.
Filed August 23, 1930. Serial No. 304,985. PUBLISHED OCTOBER 7, 1930. Class 23.

278,344. SHEARS AND SCISSORS. THE ACME SHEAR COMPANY, Bridgeport, Conn.
Filed August 23, 1930. Serial No. 304,935. PUBLISHED OCTOBER 7, 1930. Class 23.

278,345. CANDY. BUNTE BROTHERS, Chicago, Ill.
Filed August 14, 1930. Serial No. 304,601. PUBLISHED SEPTEMBER 30, 1930. Class 46.

278,346. LOOM REEDS. TEXTILE SPECIALTY CO., INC., Greensboro, N. C.
Filed July 30, 1930. Serial No. 304,022. PUBLISHED OCTOBER 7, 1930. Class 23.

278,347. ALL GRADES OF PETROLEUM ASPHALT. LION OIL REFINING COMPANY, El Dorado, Ark.
Filed July 30, 1930. Serial No. 304,010. PUBLISHED SEPTEMBER 30, 1930. Class 12.

278,348. MOTION PICTURES AND MOTION-PICTURE FILMS. FOX FILM CORPORATION, New York, N. Y.
Filed July 24, 1930. Serial No. 303,765. PUBLISHED OCTOBER 7, 1930. Class 26.

278,349. POTATOES IN THEIR NATURAL STATE. THE NIX PRODUCE COMPANY, Hastings, Fla.
Filed July 23, 1930. Serial No. 303,751. PUBLISHED SEPTEMBER 30, 1930. Class 46.

278,350. WOODEN PANELS FOR CABINETWORK. NATIONAL VENEER PACKAGE COMPANY, St. Louis, Mo.
Filed July 19, 1930. Serial No. 303,648. PUBLISHED SEPTEMBER 30, 1930. Class 12.

278,351. TABLES FOR HOUSEHOLD AND OFFICE USE. INGRAM RICHARDSON CORPORATION, Bayonne, N. J.
Filed July 19, 1930. Serial No. 303,644. PUBLISHED OCTOBER 7, 1930. Class 32.

278,352. SAUSAGE CASINGS. THE VISKING CORPORATION, Chicago, Ill.
Filed July 11, 1930. Serial No. 303,410. PUBLISHED SEPTEMBER 30, 1930. Class 46.

278,353. PLASTIC EXPANSIVE JOINT-SEALING COMPOUND. QUIGLEY FURNACE SPECIALTIES COMPANY, INC., New York, N. Y.
Filed July 7, 1930. Serial No. 303,209. PUBLISHED SEPTEMBER 30, 1930. Class 12.

278,354. SEWING MACHINES AND PARTS THEREOF. ANKER-WERKE A.-G., Bielefeld, Germany.
Filed July 2, 1930. Serial No. 303,042. PUBLISHED OCTOBER 7, 1930. Class 23.

278,355. FRESH FISH. TRIBUNA-MAGRI CO., Boston, Mass.
Filed July 1, 1930. Serial No. 303,038. PUBLISHED SEPTEMBER 30, 1930. Class 46.

278,356. SAUSAGE CASINGS. THE VISKING CORPORATION, Chicago, Ill.
Filed June 21, 1930. Serial No. 302,707. PUBLISHED SEPTEMBER 30, 1930. Class 46.

278,357. ROOFING SLATE. BANGOR SLATE ASSOCIATION INC., Bangor, Pa.
Filed June 18, 1930. Serial No. 302,525. PUBLISHED SEPTEMBER 30, 1930. Class 12.

278,358. GASOLINE INTERNAL-COMBUSTION ENGINES ESPECIALLY BUT NOT NECESSARILY DESIGNED FOR USES IN AIRPLANES. MENASCO MOTORS, INC., Los Angeles, Calif.
Filed June 14, 1930. Serial No. 302,441. PUBLISHED OCTOBER 7, 1930. Class 23.

278,359. CANNED TRIPE WITH TOMATO SAUCE, CANNED SQUID WITH TOMATO SAUCE, CANNED SHRIMP, AND CANNED VEAL LUNGS WITH TOMATO SAUCE. PIETRO RESCIGNO, Roselle Park, N. J.
Filed May 31, 1930. Serial No. 302,027. PUBLISHED SEPTEMBER 30, 1930. Class 46.

278,360. A BLANK BOOK HAVING SPACES ADAPTED TO HAVE TRADING STAMPS PASTED THEREIN. THE OHIO COUPON COMPANY, Zanesville, Ohio.
Filed July 7, 1930. Serial No. 303,203. PUBLISHED SEPTEMBER 30, 1930. Class 37.

278,361. REPORTS ISSUED DAILY. IRA RINEHART, Tulsa, Okla., and Fort Worth, Tex.
Filed July 9, 1930. Serial No. 303,301. PUBLISHED SEPTEMBER 30, 1930. Class 38.

278,362. NEWS SHEETS ISSUED AT IRREGULAR INTERVALS. IRA RINEHART, Tulsa, Okla., and Fort Worth, Tex.
Filed July 9, 1930. Serial No. 303,302. PUBLISHED SEPTEMBER 30, 1930. Class 38.

278,363. NEWSPAPER. THE NEGRO WORLD PUBLISHING CO. INC., New York, N. Y.
Filed July 10, 1930. Serial No. 303,339. PUBLISHED SEPTEMBER 30, 1930. Class 38.

278,364. CREPED WATERPROOF WRAPPING AND LINING PAPER. THE CREPE-KRAFT COMPANY, INC., Newark, N. J.
Filed July 26, 1930. Serial No. 303,839. PUBLISHED SEPTEMBER 30, 1930. Class 37.

278,365. STATIONERY, MORE PARTICULARLY WRITING TABLETS AND CORRESPONDENCE ENVELOPES. INDEPENDENT DRUGGISTS' ALLIANCE DISTRIBUTING CO., Chicago, Ill.
Filed July 28, 1930. Serial No. 303,900. PUBLISHED SEPTEMBER 30, 1930. Class 37.

278,366. PERIODICAL. HOWARD PUBLICATIONS, INC., New York, N. Y.
Filed July 29, 1930. Serial No. 303,965. PUBLISHED SEPTEMBER 30, 1930. Class 38.

278,367. SHEET MUSIC, ORCHESTRAL ARRANGEMENTS THEREFOR, AND BOUND VOLUMES OF THE SAID SHEET MUSIC AND ORCHESTRAL ARRANGEMENTS THEREOF. RED STAR MUSIC COMPANY, INC., New York, N. Y.
Filed July 31, 1930. Serial No. 304,067. PUBLISHED SEPTEMBER 30, 1930. Class 38.

278,368. GUIDE BOOKS. CERTIFIED MOTOR RESTS, INC., Boston, Mass.
Filed August 1, 1930. Serial No. 304,093. PUBLISHED SEPTEMBER 30, 1930. Class 38.

278,369. BOOKHOLDER. THE FIXTPAGE COMPANY, Des Moines, Iowa.
Filed August 4, 1930. Serial No. 304,192. PUBLISHED SEPTEMBER 30, 1930. Class 37.

278,370. WATERPROOF PAPER. EDGAR A. HALL, JR., doing business as Michigan United Paper Company, Muskegon, Mich.
Filed August 6, 1930. Serial No. 304,286. PUBLISHED SEPTEMBER 30, 1930. Class 37.

278,371. WRITING PAPER AND ENVELOPES. MONTAG BROS. INC., Atlanta, Ga.
Filed August 13, 1930. Serial No. 304,566. PUBLISHED SEPTEMBER 30, 1930. Class 37.

278,372. PAPER TO BE USED FOR WALL COVERINGS AND WINDOW SHADES. SHEETPAINT PRODUCTS CORPORATION, New York, N. Y.
Filed August 13, 1930. Serial No. 304,587. PUBLISHED SEPTEMBER 30, 1930. Class 37.

278,373. WRITING PAPER AND ENVELOPES. MONTAG BROS. INC., Atlanta, Ga.
Filed August 16, 1930. Serial No. 304,692. PUBLISHED SEPTEMBER 30, 1930. Class 37.

278,374. WOMEN'S, MISSES', AND CHILDREN'S FELT, STRAW, AND CLOTH HATS. INTERNATIONAL MILLINERY CO. INC., New York, N. Y.
Filed May 29, 1930. Serial No. 301,654. PUBLISHED SEPTEMBER 30, 1930. Class 39.

278,375. MEN'S AND BOYS' OVERCOATS, COATS, RAINCOATS, SUITS, SWEATERS, KNICKERS, AND CAPS. LANSBURGH & BRO., Washington, D. C.
Filed June 28, 1930. Serial No. 302,950. PUBLISHED SEPTEMBER 23, 1930. Class 39.

278,376. WOMEN'S HATS. MILGRIM HATS, INC., New York, N. Y.
Filed July 7, 1930. Serial No. 303,241. PUBLISHED SEPTEMBER 23, 1930. Class 39.

278,377. PRINTED CHARTS AND DATA SHEETS. WESLEY H. SHIRK, doing business as Engineers Publishing Company, Philadelphia, Pa.
Filed May 21, 1930. Serial No. 301,229. PUBLISHED SEPTEMBER 30, 1930. Class 38.

278,378. TISSUE PAPER. DUNN SULPHITE PAPER CO., Port Huron, Mich.
Filed May 29, 1930. Serial No. 301,602. PUBLISHED SEPTEMBER 30, 1930. Class 37.

278,379. NEWSPAPER ARTICLES PUBLISHED FROM TIME TO TIME INCLUDING DRAWING AND DESCRIPTIVE MATTER. J. LAWRENCE HERZOG, Rockford, Ill.
Filed June 30, 1930. Serial No. 303,001. PUBLISHED SEPTEMBER 30, 1930. Class 38.

278,380. A CARBONATED, NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGE AND EXTRACT FOR MAKING SOFT DRINKS. AMBROSE R. BURNSIDE, Providence, R. I.
Filed July 30, 1929. Serial No. 287,865. PUBLISHED SEPTEMBER 10, 1929. Class 45.

278,381. ELECTRICAL GOODS AND APPARATUS. PARTICULARLY ELECTRICALLY - OPERATED BELLS AND BUZZERS. EDWARDS AND COMPANY, INC., New York, N. Y.
Filed July 19, 1928. Serial No. 269,834. PUBLISHED SEPTEMBER 30, 1930. Class 21.

278,382. ELECTRICAL GOODS AND APPARATUS, PARTICULARLY ELECTRICALLY - OPERATED BELLS AND BUZZERS. EDWARDS AND COMPANY, INC., New York, N. Y.
Filed July 19, 1928. Serial No. 269,832. PUBLISHED SEPTEMBER 30, 1930. Class 21.

278,383. INDIA-RUBBER BUFFING AND DRAW SPRINGS AND BEARING SPRINGS FOR RAILWAY VEHICLES AND INDIA-RUBBER BEARING BLOCKS FOR RAILWAY VEHICLES. GEORGE SPENCER, MOULTON & COMPANY, LIMITED, London, England.
Filed February 7, 1930. Serial No. 295,766. PUBLISHED SEPTEMBER 30, 1930. Class 19.

278,384. BUTTONS AND BEADS. GEORGE MORRELL CORPORATION, Muskegon Heights, Mich.
Filed April 28, 1930. Serial No. 299,584. PUBLISHED SEPTEMBER 23, 1930. Class 40.

278,385. STROPPING MACHINES. EUGEN BRASELMANN, doing business as Ferd. Braselmann, Oberbauer, near Voerde, Germany.
Filed January 31, 1930. Serial No. 295,420. PUBLISHED OCTOBER 7, 1930. Class 23.

278,386. HEADWEAR—NAMELY, GIRLS' AND WOMEN'S HATS. LE RAE HAT CO., St. Louis, Mo.
Filed January 30, 1930. Serial No. 295,378. PUBLISHED SEPTEMBER 23, 1930. Class 39.

278,387. PHONOGRAPH DISC TURNTABLES ADAPTED FOR ELECTRICAL OPERATION AND FOR SYNCHRONIZATION WITH PICTURE FILMS. WEBER MACHINE CORPORATION, Rochester, N. Y.
Filed January 27, 1930. Serial No. 295,284. PUBLISHED SEPTEMBER 30, 1930. Class 36.

278,388. CLEANING COMPOUND WITH INCIDENTAL WATER-SOFTENING PROPERTIES. THE J. B. FORD COMPANY, Wyandotte, Mich.
Filed January 22, 1930. Serial No. 295,071. PUBLISHED SEPTEMBER 30, 1930. Class 4.

278,389. PAMPHLETS. UNITED ENGINEERING & FOUNDRY COMPANY, Pittsburgh, Pa.
Filed January 8, 1930. Serial No. 294,547. PUBLISHED SEPTEMBER 30, 1930. Class 38.

278,390. MIXTURES OF TAR, ASPHALT, PITCH, GRAVEL, AND BROKEN STONES FOR THE CONSTRUCTION, TREATMENT, AND BUILDING OF ROADS. GEIGY COMPANY, INC., New York, N. Y.
Filed January 8, 1930. Serial No. 294,511. PUBLISHED SEPTEMBER 30, 1930. Class 12.

278,391. SAFETY-RAZOR BLADES. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass.
Filed December 19, 1929. Serial No. 293,878. PUBLISHED OCTOBER 7, 1930. Class 23.

278,392. BILLIARD, POOL, SNOOKER, AND BAGATELLE BALLS. ALBANY BILLIARD BALL CO., Albany, N. Y.
Filed August 19, 1930. Serial No. 304,746. PUBLISHED SEPTEMBER 30, 1930. Class 22.

278,393. BILLIARD, POOL, SNOOKER, AND BAGATELLE BALLS. ALBANY BILLIARD BALL CO., Albany, N. Y.
Filed August 19, 1930. Serial No. 304,744. PUBLISHED SEPTEMBER 30, 1930. Class 22.

278,394. ARTIFICIAL BAIT. LEVIN B. HUNTINGTON, Baltimore, Md.
Filed August 16, 1930. Serial No. 304,688. PUBLISHED SEPTEMBER 30, 1930. Class 22.

278,395. PIECE GOODS OF COTTON, LINEN, WOOLEN, SILK, RAYON, AND COMBINATIONS THEREOF. CLUETT, PEABODY & CO., INC., Troy, N. Y.
Filed August 16, 1930. Serial No. 304,678. PUBLISHED SEPTEMBER 30, 1930. Class 42.

278,396. DRY-CELL BATTERIES. FRENCH BATTERY COMPANY, Madison, Wis.
Filed August 14, 1930. Serial No. 304,612. PUBLISHED SEPTEMBER 30, 1930. Class 21.

278,397. ARMATURES AND ARMATURE PARTS. UNIVERSAL ARMATURE CORPORATION, Cambridge, Mass.
Filed August 13, 1930. Serial No. 304,592. PUBLISHED SEPTEMBER 30, 1930. Class 21.

278,398. DRY-CELL BATTERIES. FRENCH BATTERY COMPANY, Madison, Wis.
Filed August 13, 1930. Serial No. 304,550. PUBLISHED SEPTEMBER 30, 1930. Class 21.

278,399. ELECTRIC SIGNS. THE LONGSIGN CORPORATION, Dayton, Ohio.
Filed August 11, 1930. Serial No. 304,467. PUBLISHED SEPTEMBER 30, 1930. Class 21.

278,400. PHONOGRAPH RECORD CHANGERS AND REPEATERS. ELECTRA CORPORATION, Chicago, Ill.
Filed August 6, 1930. Serial No. 304,276. PUBLISHED SEPTEMBER 30, 1930. Class 36.

278,401. COLD CREAM, COUGH MEDICINE, EPSOM SALTS, FACE POWDER, IODINE, PERFUME, AND TOOTH PASTE. INDEPENDENT DRUGGISTS' ALLIANCE DISTRIBUTING CO., Chicago, Ill.
Filed July 28, 1930. Serial No. 303,892. PUBLISHED SEPTEMBER 30, 1930. Class 6.

278,402. SHAMPOOING PREPARATION. FERD. T. HOPKINS, doing business as D. Watson & Co., New York, N. Y.
Filed July 28, 1930. Serial No. 303,888. PUBLISHED OCTOBER 7, 1930. Class 6.

278,403. NERVE AND KIDNEY TONIC. BLAC-KAT MEDICINE COMPANY, Daytona Beach, Fla.
Filed July 28, 1930. Serial No. 303,874. PUBLISHED SEPTEMBER 30, 1930. Class 6.

278,404. LAXATIVE IN CRACKER FORM (A MEDICATED CRACKER). PAUL P. ERRANTE, doing business as Crak-Lax Mfg. Co., Brooklyn, N. Y.
Filed July 26, 1930. Serial No. 303,843. PUBLISHED OCTOBER 7, 1930. Class 6.

278,405. BLOOD PURIFIER, TONIC, AND ALTERATIVE. E. FAYE STENTZ, doing business as Vegetone Company, Buffalo, N. Y.
Filed July 25, 1930. Serial No. 303,825. PUBLISHED SEPTEMBER 30, 1930. Class 6.

278,406. SHAMPOOS, HAIR TONICS, COLD CREAMS, CHEMICAL PREPARATIONS ADAPTED FOR THE REMOVAL OF DANDRUFF, AND CORN MEDICINES. ANTONINO R. MARTINO, doing business as Italy Laboratories, New York, N. Y.
Filed July 25, 1930. Serial No. 303,817. PUBLISHED OCTOBER 7, 1930. Class 6.

278,407. A PREPARATION FOR USE IN THE TREATMENT OF PILES. JAMES H. ANDERSON, doing business as J. H. Anderson, Canton, N. C.
Filed July 25, 1930. Serial No. 303,796. PUBLISHED SEPTEMBER 23, 1930. Class 6.

278,408. MEDICINE USED IN THE TREATMENT OF HEADACHE AND NEURALGIA. R-B PHARMACAL CO. INC., Tampa, Fla.
Filed July 22, 1930. Serial No. 303,726. PUBLISHED OCTOBER 7, 1930. Class 6.

278,409. MEDICAL PREPARATIONS. J. W. WILLIAMS, doing business as J. W. Williams Med. Co., Henderson, Tex.
Filed July 17, 1930. Serial No. 303,587. PUBLISHED SEPTEMBER 30, 1930. Class 6.

278,410. LIP STICKS. EDNA WALLACE HOPPER, INC., Chicago, Ill.
Filed July 17, 1930. Serial No. 303,568. PUBLISHED SEPTEMBER 23, 1930. Class 6.

278,411. GENERAL BODY TONIC. EL-SANO LABORATORIES, INC., Tacoma, Wash.
Filed July 17, 1930. Serial No. 303,566. PUBLISHED OCTOBER 7, 1930. Class 6.

278,412. CHEMICAL COMPOSITION TO BE USED FOR REMOVING DIRT, RUST, SCALE, SILT, AND THE LIKE FROM AUTOMOBILE RADIATORS AND CIRCULATING SYSTEMS. AMERICAN COLLOID CORPORATION, New York, N. Y.
Filed July 17, 1930. Serial No. 303,561. PUBLISHED SEPTEMBER 16, 1930. Class 6.

278,413. DISINFECTANTS AND INSECTICIDES. HYGIENE PRODUCTS LIMITED, Montreal, Quebec, Canada.
Filed July 15, 1930. Serial No. 303,507. PUBLISHED SEPTEMBER 16, 1930. Class 6.

278,414. MEDICINES FOR THE TREATMENT OF TUBERCULOSIS, PLEURISY, NERVOUS PROSTRATION, DYSPEPSIA, STOMACH AND INTESTINAL AILMENTS, CERTAIN FEMALE TROUBLES, HEART TROUBLE, SUNSTROKE, AND HYSTERIA. K. NAKASHIMA, Stockton, Calif.
Filed July 14, 1930. Serial No. 303,484. PUBLISHED OCTOBER 7, 1930. Class 6.

278,415. A MEDICINAL PREPARATION FOR THE TREATMENT OF ACID DYSPEPSIA, STOMACH COMPLAINTS, TONSILITIS, COLITIS, RHEUMATIC AND CATARRHAL CONDITIONS, SKIN ERUPTIONS DUE TO HYPERACIDITY, AND ALL CONDITIONS ARISING FROM ACIDOSIS AND TOXEMIA. KOLO SPRINGS PRODUCTS CO., Orange, Calif.
Filed July 12, 1930. Serial No. 303,445. PUBLISHED SEPTEMBER 23, 1930. Class 6.

278,416. PREPARATION USED FOR REMOVING INK, IRON RUST, IODINE, GREASE, TEA, COFFEE, VEGETABLE, FRUIT AND GRASS STAINS FROM FABRICS. C. HAROLD EDDY, doing business as Stain-Go Laboratories, Detroit, Mich.
Filed July 12, 1930. Serial No. 303,430. PUBLISHED OCTOBER 7, 1930. Class 6.

278,417. MEDICINAL PREPARATIONS—NAMELY, A MEDICINAL FOOT POWDER. NELLIE E. LONG, doing business as C. & N. Company, Detroit, Mich.
Filed July 10, 1930. Serial No. 303,332. PUBLISHED SEPTEMBER 16, 1930. Class 6.

278,418. SHAMPOO POWDER. COLGATE-PALMOLIVE-PEET COMPANY, Chicago, Ill.
Filed July 7, 1930. Serial No. 303,160. PUBLISHED SEPTEMBER 16, 1930. Class 6.

278,419. LIQUID COMPOUND FOR USE IN PERMANENT WAVING OF THE HUMAN HAIR. W. G. SHELTON COMPANY, St. Louis, Mo.
Filed July 3, 1930. Serial No. 303,126. PUBLISHED SEPTEMBER 30, 1930. Class 6.

278,420. FACE AND TOILET POWDER. COTY, INC., Wilmington, Del., and New York, N. Y.
Filed June 25, 1930. Serial No. 302,812. PUBLISHED SEPTEMBER 23, 1930. Class 6.

278,421. LIQUID SHAMPOO. BLANCHE CERVELLI, San Francisco, Calif.
Filed May 27, 1930. Serial No. 301,333. PUBLISHED SEPTEMBER 30, 1930. Class 6.

278,422. MEDICINAL HERBS, A MEDICINAL MINERAL, AND AN ORGANIC MINERAL. JOHN C. BORNFELDT, doing business as Budgeree Herb and Mineral Company, Los Angeles, Calif.
Filed May 26, 1930. Serial No. 301,239. PUBLISHED SEPTEMBER 16, 1930. Class 6.

278,423. ADHESIVE MEDICATED SHIELDS OR PADS FOR CORNS. THE SCHOLL MFG. CO. INC., Chicago, Ill.
Filed August 1, 1930. Serial No. 304,110. PUBLISHED SEPTEMBER 16, 1930. Class 6.

278,424. TOOTH PASTE. JOSEPH ZUCKERMAN, Calexico, Calif.
Filed August 9, 1930. Serial No. 304,443. PUBLISHED SEPTEMBER 23, 1930. Class 6.

278,425. COLLOIDAL SILVER CHLORIDE COMPOUND, COLLOIDAL MERCURY SULPHIDE, AND COLLOIDAL MERCURY COPPER SULPHIDE. HILLE LABORATORIES INCORPORATED, Chicago, Ill.
Filed May 8, 1929. Serial No. 283,683. PUBLISHED SEPTEMBER 30, 1930. Class 6.

278,426. ASTRINGENTS, ASTRINGENT CERATES, BLEACH CREAMS, ETC. A. P. BABCOCK COMPANY, New York, N. Y.
Filed May 20, 1930. Serial No. 300,852. PUBLISHED SEPTEMBER 23, 1930. Class 6.

278,427. TOILET PREPARATIONS COMPRISING PERFUMES, FACE POWDER, AND TOILET WATERS. THE MAY DEPARTMENT STORES COMPANY, St. Louis, Mo.
Filed May 1, 1930. Serial No. 299,787. PUBLISHED OCTOBER 7, 1930. Class 6.

278,428. VAGINAL-DOUCHE POWDER. RAY T. HALLER, Fort Thomas, Ky.
Filed April 28, 1930. Serial No. 299,574. PUBLISHED SEPTEMBER 16, 1930. Class 6.

278,429. SEDATIVE AND ANTISPASMODIC. RAY T. HALLER, Fort Thomas, Ky.
Filed April 28, 1930. Serial No. 299,573. PUBLISHED SEPTEMBER 16, 1930. Class 6.

278,430. HAIR POWDER USED FOR PROMOTING THE GROWTH AND GIVING TONE TO THE HAIR. CLARA REICHART, Rochester, N. Y.
Filed April 11, 1930. Serial No. 298,715. PUBLISHED SEPTEMBER 16, 1930. Class 6.

278,431. SKIN CREAMS. LUVENIE M. KATTELMANN, St. Louis, Mo.
Filed January 27, 1930. Serial No. 295,263. PUBLISHED SEPTEMBER 16, 1930. Class 6.

278,432. LAXATIVE EFFERVESCENT SALT. LEE LABORATORIES INCORPORATED, Cambridge, Mass.
Filed August 21, 1930. Serial No. 304,871. PUBLISHED OCTOBER 7, 1930. Class 6.

278,433. HYPNOTIC SEDATIVE ANESTHETIC PREPARATION. ABBOTT LABORATORIES, North Chicago, Ill.
Filed August 21, 1930. Serial No. 304,849. PUBLISHED OCTOBER 7, 1930. Class 6.

278,434. ANTACID TABLETS FOR SOUR STOMACH, HEARTBURN, OR FLATULENCE CAUSED BY HYPERACIDITY. OXYBORATE CO., INC., Buffalo, N. Y.
Filed August 20, 1930. Serial No. 304,827. PUBLISHED OCTOBER 7, 1930. Class 6.

278,435. GERMICIDAL SUBSTANCE POSSESSING A SELECTIVE BACTERICIDAL ACTION AGAINST THE PUTREFACTIVE FLORA OF THE INTESTINAL TRACT. SHARP & DOHME, INCORPORATED, Baltimore, Md.
Filed August 13, 1930. Serial No. 304,586. PUBLISHED SEPTEMBER 23, 1930. Class 6.

278,436. A PREPARATION FOR THE TREATMENT OF POISON OAK. ÉLISE W. KING, Lynchburg, Va.
Filed August 13, 1930. Serial No. 304,562. PUBLISHED SEPTEMBER 30, 1930. Class 6.

278,437. WEIGHT-REDUCING EXTRACTIVE TAKEN INTERNALLY IN THE FORM OF TABLETS. FRANK LLEWELLYN, doing business as Panatelle Laboratories, Hollywood, Calif.
Filed August 12, 1930. Serial No. 304,504. PUBLISHED SEPTEMBER 23, 1930. Class 6.

278,438. LIP ROUGE. ALICE WARNESSON, doing business as Prof. J. Warnesson, Chicago, Ill.
Filed August 11, 1930. Serial No. 304,478. PUBLISHED OCTOBER 7, 1930. Class 6.

278,439. AN OIL FOR THE PROTECTION OF ANIMALS FROM FLIES, MOSQUITOES, GNATS, AND OTHER SIMILAR INSECTS. GRACE B. CARRAN, doing business as Central Petroleum Company, Cleveland, Ohio.
Filed August 11, 1930. Serial No. 304,450. PUBLISHED SEPTEMBER 23, 1930. Class 6.

278,440. TOILET PREPARATIONS AND COSMETICS—NAMELY, SKIN CREAM, CUTICLE CREAM, DANDRUFF CREAM, TAR SALVE FOR TREATMENT OF THE HAIR AND SCALP, SKIN ASTRINGENT, BENZOIN CREAM AND PURE TINCTURE BENZOIN FOR THE TREATMENT OF DRY SKIN, NAIL BLEACH, BRILLIANTINE, HAIR TONIC, HAIR GROWER; PEACH BLOOM, COMPRISING A LOTION FOR THE TREATMENT OF THE SKIN; EAU DE QUININE HAIR TONIC, FACE POWDER, BATH POWDERS, LIP STICK, ROUGE; NAIL POLISH, BOTH LIQUID AND POWDER; CUTICLE REMOVER, HENNA WASH, AND LIQUID SHAMPOO. SARAH CARRICK, Washington, D. C.
Filed August 3, 1929. Serial No. 288,062. PUBLISHED SEPTEMBER 30, 1930. Class 6.

278,441. CORN PLASTERS. ALLCOCK MANUFACTURING CO., Ossining, N. Y.
Filed June 25, 1929. Serial No. 286,096. PUBLISHED SEPTEMBER 30, 1930. Class 6.

278,442. VITAMIN MEDICINAL PRODUCT USED FOR THE TREATMENT OF GROWTH TROUBLES AND FOR RETARDATION OF GROWTH AND FOR THE TREATMENT OF AVITAMINOSIS, OSTEOMALACIA, AND DENTAL CARIES. SOCIÉTÉ DES USINES CHIMIQUES RHONE-POULENC, Paris, France.
Filed June 7, 1929. Serial No. 285,232. PUBLISHED OCTOBER 7, 1930. Class 6.

278,443. MEDICINAL SOLUTION AND PHARMACEUTICAL PREPARATION COMPRISING HYDROCARBONS CONTAINING SULPHUR DERIVED FROM A MINERAL SHALE FOUND NEAR SEEFELD, IN THE TYROL. THE ICHTHYOL CO., Rahway, N. J.
Filed June 6, 1929. Serial No. 285,155. PUBLISHED NOVEMBER 19, 1929. Class 6.

278,444. PERFUMES, TOILET ESSENCES, TOILET POWDER, TOILET LOTIONS, COLOGNE, TOOTH PASTE; EYELASH, EYEBROW, AND LIP STICKS; ROUGE, COMPLEXION CREAMS, HAIR DYES, BATH SALTS, MANICURE PASTE AND LIQUID, AND TALCUM POWDER. BIENVENIDO FERNÁNDEZ, Habana, Cuba.
Filed November 5, 1928. Serial No. 274,828. PUBLISHED OCTOBER 7, 1930. Class 6.

278,445. WOMEN'S SHOES MADE OF LEATHER AND SUCH COMBINATIONS OF LEATHER AND FABRIC AS ARE ORDINARILY EMPLOYED IN MAKING "LEATHER" SHOES. S. L. BIRD AND SONS, Detroit, Mich.
Filed May 19, 1930. Serial No. 300,779. PUBLISHED SEPTEMBER 23, 1930. Class 39.

278,446. SILICON CARBIDE FOR USE AS ABRASIVES. MAYER & SCHMIDT, SCHLEIFMASCHINEN & SCHMIERGELWERKE, A. G., Offenbach-on-the-Main, Germany.
Filed May 17, 1930. Serial No. 300,731. PUBLISHED SEPTEMBER 30, 1930. Class 4.

278,447. STEEL HEATING BOILERS AND WATER HEATERS USING COAL OR OIL AS FUEL. MONITOR BOILER COMPANY, Philadelphia, Pa.
Filed May 15, 1930. Serial No. 300,580. PUBLISHED SEPTEMBER 30, 1930. Class 34.

278,448. CERTAIN NAMED WEARING APPAREL. DELPARK, INC., Newark, N. J.
Filed May 13, 1930. Serial No. 300,406. PUBLISHED SEPTEMBER 23, 1930. Class 39.

278,449. PAPER BAGS. HELLO WORLD BROADCASTING CORP., Shreveport, La.
Filed May 8, 1930. Serial No. 300,129. PUBLISHED SEPTEMBER 30, 1930. Class 2.

278,450. ICE-SHAVING MACHINES. SNOKO INC., San Francisco, Calif.
Filed May 2, 1930. Serial No. 299,868. PUBLISHED OCTOBER 7, 1930. Class 23.

278,451. ELECTRIC LANTERNS, ELECTRIC FLASH LIGHTS, ETC. BOND ELECTRIC CORPORATION, Jersey City, N. J.
Filed November 4, 1929. Serial No. 291,961. PUBLISHED JANUARY 14, 1930. Class 21.

278,452. CANNED FRUITS, CANNED VEGETABLES, DRIED FRUITS, CANNED FRUITS FOR SALAD. CALIFORNIA CO-OPERATIVE PRODUCERS, San Francisco, Calif.
Filed October 1, 1929. Serial No. 290,448. PUBLISHED OCTOBER 7, 1930. Class 46.

278,453. PLUMBING, STEAM-FITTING, GAS, AND AIR VALVES AND VALVE CASINGS. FRIED. KRUPP AKTIENGESELLSCHAFT, Essen, Germany.
Filed August 24, 1929. Serial No. 288,997. PUBLISHED SEPTEMBER 30, 1930. Class 13.

278,454. ENGINES, CRANK CASES, CYLINDERS, ETC. DAIMLER-BENZ AKTIENGESELLSCHAFT, Berlin, Germany.
Filed August 16, 1929. Serial No. 288,587. PUBLISHED OCTOBER 7, 1930. Class 23.

278,455. WATERLESS CLEANSER. ESTELLE M. SEALE, doing business as Dix Products Company, Cincinnati, Ohio.
Filed August 9, 1929. Serial No. 288,356. PUBLISHED OCTOBER 7, 1930. Class 4.

278,456. PAPER BAGS. EDWARD F. KEMP, Somerville, Mass.
Filed August 6, 1929. Serial No. 288,197. PUBLISHED SEPTEMBER 30, 1930. Class 2.

278,457. PAPER BAGS. EDWARD F. KEMP, Somerville, Mass.
Filed August 6, 1929. Serial No. 288,196. PUBLISHED SEPTEMBER 30, 1930. Class 2.

278,458. PAPER BAGS. EDWARD F. KEMP, Somerville, Mass.
Filed August 6, 1929. Serial No. 288,193. PUBLISHED SEPTEMBER 30, 1930. Class 2.

278,459. PAPER BAGS. EDWARD F. KEMP, Somerville, Mass.
Filed August 6, 1929. Serial No. 288,192. PUBLISHED SEPTEMBER 30, 1930. Class 2.

278,460. GOLF BALLS AND GOLF CLUBS. POPULAR GAMES, INC., Chicago, Ill.
Filed August 5, 1929. Serial No. 288,146. PUBLISHED SEPTEMBER 30, 1930. Class 22.

278,461. MAGNESIUM AND MAGNESIUM-ALLOY CASTINGS AND FORGINGS. THE DOW CHEMICAL COMPANY, Midland, Mich.
Filed July 6, 1929. Serial No. 286,674. PUBLISHED JULY 29, 1930. Class 14.

278,462. DUCK SHOWER-BATH CURTAINS. CHASE BRASS & COPPER CO. INCORPORATED, Waterbury, Conn.
Filed May 10, 1929. Serial No. 283,782. PUBLISHED SEPTEMBER 30, 1930. Class 13.

278,463. COLORED MOTION-PICTURE FILMS. EUREKA COLOR FILM COMPANY, Los Angeles, Calif.
Filed April 30, 1930. Serial No. 299,694. PUBLISHED OCTOBER 7, 1930. Class 26.

278,464. MUSICAL INSTRUMENTS AND SUPPLIES. SOL G. STERN, Brooklyn, N. Y.
Filed April 25, 1930. Serial No. 299,471. PUBLISHED SEPTEMBER 30, 1930. Class 36.

278,465. APPARATUS FOR SUBJECTING GASES TO CENTRIFUGAL ACTION. WESTERN PRECIPITATION COMPANY, Los Angeles, Calif.
Filed April 22, 1930. Serial No. 299,294. PUBLISHED OCTOBER 7, 1930. Class 23.

278,466. DRESS, HAT, SHOE, LAUNDRY, HOSE, LOCKER, AND UTILITY BAGS MADE OF CLOTH. PAT BAGS, INCORPORATED, Richmond, Va.
Filed April 21, 1930. Serial No. 299,224. PUBLISHED SEPTEMBER 30, 1930. Class 2.

278,467. FRESH GRAPEFRUIT. EDWARD A. BAILEY, Manati, Porto Rico.
Filed April 21, 1930. Serial No. 299,177. PUBLISHED SEPTEMBER 30, 1930. Class 46.

278,468. FRESH GRAPEFRUIT. EDWARD A. BAILEY, Manati, Porto Rico.
Filed April 21, 1930. Serial No. 299,176. PUBLISHED SEPTEMBER 30, 1930. Class 46.

278,469. ELECTRIC CIGAR LIGHTERS. JOSEPH H. COHEN, doing business as The Perfection Motor Products Company, Bridgeport, Conn.
Filed April 18, 1930. Serial No. 299,046. PUBLISHED SEPTEMBER 30, 1930. Class 21.

278,470. PRINTING PAPER AND ENVELOPES MADE THEREFROM. THE PAPER MILLS' COMPANY, Chicago, Ill.
Filed April 16, 1930. Serial No. 298,954. PUBLISHED SEPTEMBER 30, 1930. Class 37.

278,471. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y.
Filed April 8, 1930. Serial No. 298,527. PUBLISHED SEPTEMBER 30, 1930. Class 42.

278,472. BASE-METAL KNIVES, FORKS, SPOONS, BASTERS, STIRRERS, TURNERS, SPATULAS, AND BEATERS. WÜRTTEMBERGISCHE METALLWARENFABRIK, Geislingen-Steige, Germany.
Filed March 17, 1930. Serial No. 297,462. PUBLISHED OCTOBER 7, 1930. Class 23.

278,473. ORNAMENTAL GARDEN FURNITURE—NAMELY, TRELLISES AND PERGOLAS. RUSSELL S. COX, Monroe, N. Y.
Filed March 17, 1930. Serial No. 297,411. PUBLISHED SEPTEMBER 30, 1930. Class 12.

278,474. COATED PAPERS FOR USE AS BOX COVERS, LABELS, FOLDERS, AND THE LIKE. MCLAURIN-JONES CO., Brookfield, Mass.
Filed February 19, 1930. Serial No. 296,230. PUBLISHED SEPTEMBER 30, 1930. Class 37.

278,475. A MONTHLY PERIODICAL. BEVERLY M. PERSON, doing business as Townsfolk Company, Chicago, Ill.
Filed February 17, 1930. Serial No. 296,143. PUBLISHED SEPTEMBER 30, 1930. Class 38.

278,476. NEWS FILMS, SCREEN PUBLICATION FILMS, MOVING-PICTURE FILMS, AND TALKING-PICTURE FILMS. RANDOLPH MOVIE COMPANY, INC., Chicago, Ill.
Filed February 15, 1930. Serial No. 296,080. PUBLISHED SEPTEMBER 9, 1930. Class 26.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

278,477. (CLASS 2. RECEPTACLES.) UNITED STATES ENVELOPE COMPANY, Springfield, Mass. Filed Oct. 30, 1930. Serial No. 307,375.

COLUMBIAN CLASP

For Merchandise Envelopes.
Claims use since Jan. 1, 1899.

278,478. (CLASS 39. CLOTHING.) MILBERG & MILBERG, New York, N. Y. Filed Aug. 26, 1930. Serial No. 305,049.

MILLBROOK LINGERIE

For Women's Lingerie—Namely, Nightgowns, Bloomers, Panties, Step-Ins, Chemises, Slips, Pajamas, and Combinations Consisting of Brassières, Vesties, and Step-Ins.
Claims use since Jan. 1, 1924.

278,479. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GRIFFIN MANUFACTURING COMPANY, INC., New York, N. Y. Filed July 30, 1930. Serial No. 304,004.

ALLWITE

For Shoe Polishes, Shoe Cleaners, and Leather Preservatives.
Claims use since Jan. 10, 1919.

278,480. (CLASS 39. CLOTHING.) F. A. KUHNERT SHOE CORP., Rochester, N. Y. Filed July 28, 1930. Serial No. 303,910.

EVEN-TRED

For Misses' and Children's Shoes Made of Leather.
Claims use since September, 1929.

278,481. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed June 16, 1930. Serial No. 302,492,

NOT-A-KINK

For Garden Hose.
Claims use since Jan. 22, 1925.

278,482. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed June 16, 1930. Serial No. 302,489.

RUBY RED

For Garden Hose.
Claims use since Feb. 1, 1927.

278,483. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed June 16, 1930. Serial No. 302,486.

HEAVY DUTY

For Garden Hose.
Claims use since Feb. 5, 1929.

278,484. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRY EDELSTEIN, doing business as The Kwik-Tox Chemical Co., Baltimore, Md. Filed May 31, 1930. Serial No. 301,865.

KWIK-TOX

For Insecticide and Disinfectants with Incidental Cleaning Properties.
Claims use since February, 1929.

278,485. (CLASS 45. BEVERAGES, NONALCOHOLIC.) EUGENE J. PETROSEMOLO, New York, N. Y. Filed May 22, 1930. Serial No. 301,055.

EFFERVESCENTE GALEFFI

For Nonalcoholic, Maltless Beverages Sold as Soft Drinks.
Claims use since July 15, 1927.

278,486. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FOREMOST FABRICS CORPORATION, New York, N. Y. Filed Nov. 29, 1929. Serial No. 293,038.

Crepe San Remo

For Silk Piece Goods.
Claims use since Oct. 8, 1929.

278,487. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) RAU FASTENER COMPANY, Providence, R. I. Filed Jan. 17, 1930. Serial No. 294,892.

SPURPIN

For Pronged Retaining Pins of Nonprecious Metal.
Claims use since Apr. 3, 1929.

278,488. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE ART LINEN COMPANY, Holyoke, Mass. Filed Dec. 11, 1929. Serial No. 293,510.

"NO LINT"

For Toweling and Woven Fabrics of Linen.
Claims use since Oct. 1, 1929.

278,489. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE NESTLE MUR COMPANY, New York, N. Y. Filed Feb. 27, 1930. Serial No. 296,608.

NESTLÉ

For Toilet Preparations, Preparations for Use in the Treatment of the Hair, and Cosmetics—Namely, Lotions for Bleaching Hair, Lotions for Softening Hair, Hair Dyes, Preparations Adapted and Intended for Use in Waving or Curling Hair, Lotions and Absorbent Material Containing Hair-Treating Substances in Soluble Form, Preparations for Treating Hair, Preparations for Rinsing Hair and Emphasizing the Color Thereof, Shampoo Preparation, Cleansing Cream for Scalp.
Claims use since 1916.

278,490. (CLASS 48. MALT BEVERAGES AND LIQUORS.) MID-CITY BEVERAGE COMPANY, Chicago, Ill. Filed Dec. 28, 1929. Serial No. 294,165.

Toronto Pale

For Malt Cereal Beverage Containing Less Than One-Half of One Per Cent Alcohol by Volume Sold as Soft Drinks.
Claims use since Oct. 17, 1929.

278,491. (CLASS 45. BEVERAGES, NONALCOHOLIC.) ARCHIBALD B. LAWLESS, Asbury Park, N. J. Filed Jan. 16, 1930. Serial No. 294,850.

SORREL

For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.
Claims use since Sept. 1, 1929

278,492. (CLASS 39. CLOTHING.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Mar. 10, 1930. Serial No. 297,099.

SEALED Soles

For Shoes Made of Leather, Fabric, and Rubber and Combinations of Same for Men and Boys.
Claims use since Oct. 15, 1929.

278,493. (CLASS 45. BEVERAGES, NONALCOHOLIC.) FLORIDA ORANGE DRY CORPORATION, New York, N. Y. Filed June 15, 1929. Serial No. 285,627.

FLORIDA ORANGE DRY

For Nonalcoholic, Maltless, Citrous Beverage, Carbonated or Uncarbonated, Sold as a Soft Drink.
Claims use since May 15, 1929.

278,494. (CLASS 39. CLOTHING.) HERMAN DAVID, doing business as R. Stern Co., Paterson, N. J. Filed Mar. 28, 1930. Serial No. 298,017.

CZECHO Braided SANDALS

For Shoes of Leather, Rubber, Fabric, or Combinations of These Materials.
Claims use since June, 1928.

278,495. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALICE SOMERS, doing business as Somer's Chemical Company, North Georgetown, Ohio. Filed Apr. 14, 1930. Serial No. 298,857.

SOMER'S SALVE

For Salve for External Application for Use in the Treatment of Soreness in Wounds, Burns, Stings, Bites, Plant Poisoning, and Soreness in General.
Claims use since Sept. 1, 1929.

278,496. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOMAS HENRY JONES, doing business as Lacto Pharmacal Laboratories, Brooklyn, N. Y. Filed Nov. 16, 1929. Serial No. 292,499.

Lacto-Citrates

For Granular Effervescent Salt.
Claims use since Oct. 31, 1929.

278,497. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HEALTH-EE TASTE-EE PRODUCTS COMPANY, River Forest, Ill. Filed Oct. 30, 1929. Serial No. 291,767.

HEALTH-EE TASTE-EE

For Potato Salad, Chicken Salad, Ham, Sausage, Doughnuts, Cookies, Baked Beans, Egg Salad, Peanut Butter, Mayonnaise, Thousand Island Dressing, Butter, Pickles, Sandwich Spread and Jelly, Spaghetti Salad, Coleslaw.
Claims use since Oct. 17, 1929.

278,498. (CLASS 39. CLOTHING.) DUNLAP'S CALIFORNIA SPORT HATS, INC., Los Angeles, Calif., assignor to Ross-Cordes, Ltd., Los Angeles, Calif., a Corporation of Nevada. Filed July 31, 1929. Serial No. 287,913.

DEL MAR

For Ladies' Hats.
Claims use since July 1, 1929.

278,499. (CLASS 2. RECEPTACLES.) CHICAGO MILL AND LUMBER CORPORATION, Chicago, Ill. Filed Nov. 22, 1929. Serial No. 292,717.

KASKETPAK

For Casket Cases for Shipping and/or Burial Purposes.
Claims use since Nov. 6, 1929.

278,500. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM H. ROHRE, INC., Philadelphia, Pa. Filed May 25, 1929. Serial No. 284,631.

CHALYBEATS

For Tablet for the Treatment of Anemia, Chlorosis, Physical Inertia, and Lack of Vitality Which May be Found in Children, Though the Tablet May be Used for Grown Persons.
Claims use since Feb. 16, 1921.

278,501. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) AMERICAN WIRE FENCE COMPANY, Chicago, Ill. Filed Jan. 14, 1929. Serial No. 277,936.

CHAIN LINK

For Wire Fencing.
Claims use since January, 1927.

278,502. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) F. DUCHARNE SILK CO. INC., New York, N. Y. Filed Nov. 29, 1929. Serial No. 293,032.

CREPE ATHENIEN

For Silk Piece Goods.
Claims use since Oct. 9, 1929.

TRADE-MARK REGISTRATIONS RENEWED

35,321. CERTAIN NAMED MONTHLY MAGAZINE. Registered October 30, 1900. THE CURTIS PUBLISHING COMPANY, Camden, N. J., and Philadelphia, Pa. Renewed October 30, 1930, to The Curtis Publishing Company, Philadelphia, Pa., a Corporation of Pennsylvania, assignee by mesne assignments.

35,326. WOODEN TOOTHPICKS. Registered October 30, 1900. CHARLES FORSTER, Dixfield and Strong, Me. Renewed October 30, 1930, to Estate of Charles Forster, Strong, Me., a Corporation of Maine, successor.

35,328. WOODEN TOOTHPICKS. Registered October 30, 1900. CHARLES FORSTER, Dixfield and Strong, Me. Renewed October 30, 1930, to Estate of Charles Forster, Strong, Me., a Corporation of Maine, successor.

35,456. WOODEN TOOTHPICKS. Registered November 20, 1900. CHARLES FORSTER, Dixfield and Strong, Me. Renewed November 20, 1930, to Estate of Charles Forster, Strong, Me., a Corporation of Maine, successor.

35,457. WOODEN TOOTHPICKS. Registered November 20, 1900. CHARLES FORSTER, Dixfield and Strong, Me. Renewed November 20, 1930, to Estate of Charles Forster, Strong, Me., a Corporation of Maine, successor.

35,465. GIN. Registered November 20, 1900. TANQUERAY, GORDON CO. LIMITED, London, England, a Corporation of Great Britain. Renewed November 20, 1930.

35,974. MEDICINES FOR CERTAIN NAMED DISEASES. Registered February 26, 1901. MARTIN H. SMITH CO., New York, N. Y., a Corporation of New York. Renewed February 26, 1931.

36,101. CERTAIN NAMED LAUNDRY ARTICLES. Registered March 19, 1901. THE AMERICAN WRINGER Co., Providence, R. I. Renewed March 19, 1931, to American Wringer Company, Inc., Woonsocket, R. I., a Corporation of Rhode Island, assignee.

36,156. CORDAGE, ROPE, AND TWINE. Registered April 2, 1901. THE EDWIN H. FITLER CO., Philadelphia, Pa., a Corporation of Pennsylvania. Renewed April 2, 1931.

73,596. CERTAIN CLOTHING. Registered May 4, 1909. THE MANDELERT MERCANTILE CO. Renewed May 4, 1929, to Chippewa Falls Woolen Mill Company, Chippewa Falls, Wis., a Corporation of Wisconsin, by change of name.

73,896. BLANKETS, FLANNELS, AND WOOLEN PIECE GOODS. Registered June 1, 1909. THE MANDELERT MERCANTILE CO. Renewed June 1, 1929, to Chippewa Falls Woolen Mill Company, Chippewa Falls, Wis., a Corporation of Wisconsin, by change of name.

78,677. PENCILS, PENHOLDERS, AND ERASING RUBBER. Registered July 5, 1910. BLEISTIFT-FABRIK VORM. JOHANN FABER, A.-G., Nuremburg, Germany, a Corporation of Germany. Renewed July 5, 1930.

79,060. METAL CASTINGS AND FORGINGS. Registered August 2, 1910. WILLIAM JESSOP & SONS, LIMITED, Sheffield, England, a Corporation of Great Britain. Renewed August 2, 1930.

79,585. METAL CASTINGS AND FORGINGS. Registered September 20, 1910. WILLIAM JESSOP & SONS, LIMITED, Sheffield, England, a Corporation of Great Britain. Renewed September 20, 1930.

79,710. HOSIERY, UNDERSHIRTS, DRAWERS, AND UNION SUITS. Registered September 27, 1910. H. WOLF & SONS. Renewed September 27, 1930, to H. Wolf & Sons, Inc., Cincinnati, Ohio, a Corporation of Ohio, successor.

80,300. METALLIC PLATES TO BE USED TO REENFORCE COMPOSITION FLOORING. Registered December 6, 1910. THE BERGER MANUFACTURING COMPANY, Canton, Ohio. Renewed December 6, 1930, to Republic Steel Corporation, Youngstown, Ohio, a Corporation of New Jersey, assignee.

80,310. STENCIL PAPER AND STENCILS. Registered December 6, 1910. LOUIS E. FULLER, New York, N. Y. Renewed December 6, 1930, to A. B. Dick Company, Chicago, Ill., a Corporation of Illinois, assignee by mesne assignments.

80,405. COFFEE. Registered December 20, 1910. CHARLES E. BROWN & CO. Renewed December 20, 1930, to Fred R. Brown, Springfield, Mass., successor.

80,468. CANDY. Registered December 27, 1910. T. CHARLES DUSENBERG, Philadelphia, Pa. Renewed December 27, 1930.

80,638. WHEAT FLOUR. Registered January 17, 1911. THE BLISH MILLING COMPANY, Seymour, Ind., a Corporation of Indiana. Renewed January 17, 1931.

80,683. DENTIFRICES AND REMEDIES FOR CERTAIN DISEASES. Registered January 17, 1911. SMITH, KLINE & FRENCH COMPANY. Renewed January 17, 1931, to Smith, Kline & French Laboratories, Philadelphia, Pa., a Corporation of Pennsylvania, assignee.

80,684. CERTAIN ELECTRICAL SUPPLIES. Registered January 17, 1911. STAR EXPANSION BOLT COMPANY, New York, N. Y., a Corporation of New York. Renewed January 17, 1931.

80,741. ROOT-BEER EXTRACT. Registered January 24, 1911. SMITH, KLINE & FRENCH COMPANY. Renewed January 24, 1931, to Smith, Kline & French Laboratories, Philadelphia, Pa., a Corporation of Pennsylvania, assignee.

80,789. ELECTRICALLY-OPERATED SIGNAL HORNS AND ALARMS. Registered January 31, 1911. LOVELL-MCCONNELL MANUFACTURING COMPANY, Newark, N. J. Renewed January 31, 1931, to The Klaxon Company, Anderson, Ind., a Corporation of Delaware, assignee.

80,790. ELECTRICALLY-OPERATED SIGNAL HORNS AND ALARMS. Registered January 31, 1911. LOVELL-MCCONNELL MANUFACTURING COMPANY, Newark, N. J. Renewed January 31, 1931, to The Klaxon Company, Anderson, Ind., a Corporation of Delaware, assignee.

80,828. WHEAT FLOUR. Registered February 7, 1911. THE CARR MILLING COMPANY, Hamilton, Ohio, a Corporation of Ohio. Renewed February 7, 1931.

81,121. TOOTHBRUSHES. Registered March 7, 1911. GEO. BORGFELDT & CO. Renewed March 7, 1931, to Lingner Corporation, New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

81,203. STENCIL PAPER. Registered March 14, 1911. A. B. DICK COMPANY. Renewed March 14, 1931, to A. B. Dick Company, Chicago, Ill., a Corporation of Illinois, assignee.

81,204. DUPLICATING INK. Registered March 14, 1911. A. B. DICK COMPANY. Renewed March 14, 1931, to A. B. Dick Company, Chicago, Ill., a Corporation of Illinois, assignee.

81,205. DUPLICATING MACHINES AND PARTS THEREOF. Registered March 14, 1911. A. B. DICK COMPANY. Renewed March 14, 1931, to A. B. Dick Company, Chicago, Ill., a Corporation of Illinois, assignee.

81,548. TIN,TERNE, ZINC, AND BLACK PLATES. Registered April 18, 1911. THE REDBROOK TINPLATE CO. LIMITED, London, England. Renewed April 18, 1931, to The Redbrook Tinplate Company, Limited, Pontnewydd, Newport, England, a Corporation of Great Britain.

81,601. COFFEE. Registered April 25, 1911. FLETCHER COFFEE & SPICE CO., Little Rock, Ark., a Corporation of Arkansas. Renewed April 25, 1931.

LABELS

REGISTERED DECEMBER 16, 1930

38,373.—*Title:* ARCTURAS RADIO TUBES. For Radio Tubes. ARCTURAS RADIO TUBE COMPANY, Newark, N. J. Published August 26, 1930.

38,374.—*Title:* NERVASPA HEADACHE TABLETS. For Headache Tablets. S. W. BURDA, doing business as Nervaspa, Inc., Chicago, Ill., assignor to Nervaspa, Inc., Chicago, Ill., a Corporation of Illinois. Published March 15, 1930.

38,375.—*Title:* CARROON. For Tomatoes. CARROON & CO. INC., Fowler, Ind. Published November 15, 1930.

38,376.—*Title:* DINNER BELLE. For Bread. CENTRAL WAXED PAPER COMPANY, Chicago, Ill. Published October 25, 1930.

38,377.—*Title:* CAROLINA CLEANSER. For Cleanser. THE CHAMPION FIBRE COMPANY, Canton, N. C. Published October 20, 1930.

38,378.—*Title:* ANTONIO CORTINA. For Cigars. ANTONIO CORTINA, Chicago, Ill. Published October 1, 1930.

38,379.—*Title:* SOFWASH. For Washing Crystals. HENRY DUBIN, doing business as Sof Products Co., Chicago, Ill. Published May 12, 1930.

38,380.—*Title:* BLUE FLAG. For Evaporated Prunes. EARL FRUIT COMPANY, Wenatchee, Wash. Published November 1, 1930.

38,381.—*Title:* DAINTY-LEE. For Cakes. GOEKEN CAKE CO., Alton, Ill. Published July 24, 1930.

38,382.—*Title:* HANSLEY GUARANTEED. For Athletic Underwear. HANSLEY MILLS, New York, N. Y. Published August 5, 1930.

38,383.—*Title:* CREVE COEUR BRAND. For Eggs. KOCH & BOLLIGER, Peoria, Ill. Published July 24, 1930.

38,384.—*Title:* GRANDMA'S HONEY CRISP POTATO CHIPS. For Potato Chips. LANTZ BROS. BAKING CO., St. Louis, Mo. Published September 16, 1930.

38,385.—*Title:* GOLDEN STAR. For Butter. THE MENASHA PRODUCTS COMPANY, Chicago, Ill. Published July 1, 1930.

38,386.—*Title:* RADIANT TOILET CLEANER. For a Preparation for Cleaning Toilet Bowls. MIDWAY CHEMICAL COMPANY, Chicago, Ill. Published July 5, 1928.

38,387.—*Title:* ROYAL. For Baking Powder. STANDARDS BRANDS INCORPORATED, New York, N. Y. Published September 29, 1930.

38,388.—*Title:* ROYAL. For Baking Powder. STANDARD BRANDS INCORPORATED, New York, N. Y. Published September 29, 1930.

38,389.—*Title:* ROYAL. For Gelatine Dessert. STANDARD BRANDS INCORPORATED, New York, N. Y. Published October 2, 1930.

38,390.—*Title:* SUN-RA. For Barbecue Sauce. SUN-RA PRODUCTS COMPANY, St. Joseph, Mo. Published June 25, 1930.

38,391.—*Title:* CHICKEN OF THE SEA. For Canned Tuna Fish. VAN CAMP SEA FOOD CO. INC., Terminal Island, Calif. Published October 1, 1930.

38,392.—*Title:* COLOR HARMONY GUIDE. For Bias-Fold Tape. WALKER WEBBING COMPANY, INC., Fall River, Mass. Published November 1, 1930.

38,393.—*Title:* MILBRAND. For Sausage. ZOLL M. ZILBERBRAND, Chicago, Ill. Published October 5, 1930.

PRINTS

REGISTERED DECEMBER 16, 1930

12,856.—*Title:* ORIGINAL CREATIONS BY BLACK, STARR & FROST-GORHAM, INC. For Jewelled Hairpins. BLACK, STARR & FROST-GORHAM, INC., New York, N. Y. Published October 1, 1930.

12,857.—*Title:* A DROWSY OLD LOUISIANA PLANTATION AND A VERY ALERT SMALL BOY ALFRED OLIVER HERO, JR. For Wheat Breakfast Food. THE CREAM OF WHEAT CORPORATION, Minneapolis, Minn. Published November 10, 1930.

12,858.—*Title:* WHEN IT'S AN EXIDE YOU START. For Storage Batteries. THE ELECTRIC STORAGE BATTERY COMPANY, Philadelphia, Pa. Published August 29, 1930.

12,859.—*Title:* EVERYBODY'S ASH RECEIVER. For Novelty Ash Trays. IRVING H. FISHLOVE, doing business as H. Fishlove Company, Chicago, Ill. Published August 15, 1930.

12,860.—*Title:* GRUEN TIMEKEEPING BAGUETTE. For Watches. THE GRUEN WATCH COMPANY, Cincinnati, Ohio. Published November 10, 1930.

12,861.—*Title:* ESSENTIAL APPAREL FOR EVERY SPORT. For Athletic Supporters and Suspensories. THE KENDALL COMPANY, Chicago, Ill. Published September 1, 1930.

12,862.—*Title:* W. J. KENNEDY DAIRY CO. For Milk. W. J. KENNEDY DAIRY CO., Detroit, Mich. Published May 1, 1929.

12,863.—*Title:* LEXCO. For Concrete Blocks. LEXINGTON CONCRETE PRODUCTS COMPANY, Lexington, Ky. Published March 7, 1930.

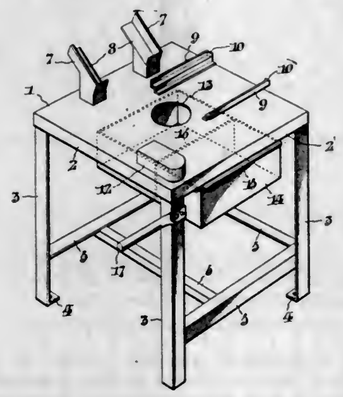
12,864.—*Title:* RED FLASH COKE. For Coke. THE V. E. MONTGOMERY COMPANY, Cincinnati, Ohio. Published October 4, 1930.

12,865.—*Title:* WILLIAMS RAYEX. For Tonic for Scalp and Hair. THE J. B. WILLIAMS COMPANY, Glastonbury, Conn. Published November 5, 1930.

REISSUES

DECEMBER 16, 1930

17,901. WORKTABLE. JOAH BROGDEN, Melrose Park, Pa., assignor to David Lupton's Sons Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 10, 1930. Serial No. 487,882. Original No. 1,703,074, dated Feb. 19, 1929, Serial No. 157,443, filed Dec. 28, 1926. 8 Claims. (Cl. 66—1.)



1. A topper's work table comprising a top and an open substructure to support it with free leg room beneath for the operative; a pair of rails for transfer bars on the table top in front of an operative seated at it; and a rack on the table top, comprising members with surfaces inclined upward and outward toward the edge of the table, for supporting the ends of transfer bars.

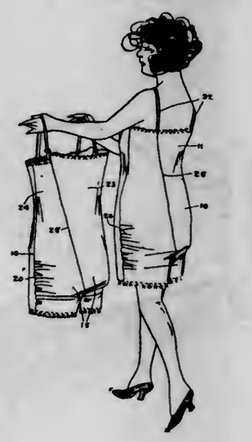
17,902. PURIFICATION OF CRUDE ANTHRACENE. ALPHONS O. JAEGER, Mount Lebanon, Pa., assignor to The Selden Research & Engineering Corporation, Pittsburgh, Pa., a Corporation of Delaware. Filed Feb. 26, 1930. Serial No. 431,622. Original No. 1,693,713, dated Dec. 4, 1928, Serial No. 247,260, filed Jan. 16, 1928. 20 Claims. (Cl. 260—168.)

1. A method of purifying impure anthracene, which comprises subjecting it to the selective solvent action of a solvent containing at least one liquid compound containing the furane nucleus.

17. In methods of purifying anthracene substances whereby a cake is obtained containing a furfural, the step which comprises subjecting said cake to steam distillation.

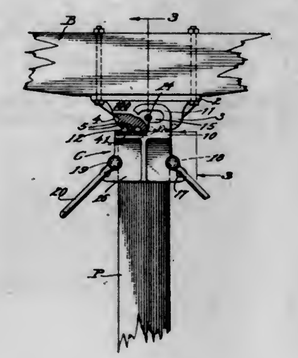
17,903. PROCESS OF MAKING GARMENTS FOR WOMEN AND CHILDREN. MARY D. NEILSON, Minneapolis, Minn. Filed July 24, 1930. Serial No. 470,504. Original application filed June 22, 1920, Serial No. 390,731. Renewed Dec. 5, 1927. Original No. 1,680,267, dated Aug. 7, 1928. 4 Claims. (Cl. 2—28.)

1. The process of making undergarments which consists in providing a front part and forming therein a division starting at a point in the longitudinal center line of said front part adjacent the front of the crotch, providing a back part having excess length of material at its central portion which along its center line from the waistline to the bottom is substantially double in length the distance from said starting point along the center line of the front part to the waist line of the garment, forming said back part with a central bottom edge portion double the length of each edge of said division, uniting said back part along its side edges to the side edges of said front part, and attaching said central bottom edge to the edges of said



division with the center of said bottom edge at said division starting point, whereby legs are formed with crotch fullness extending directly back from the center of the front of the garment.

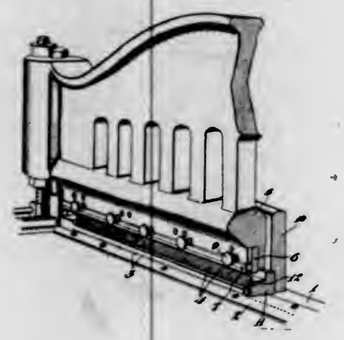
17,904. BEARING FOR PUMP-OPERATING MEMBERS. JAMES P. RATIGAN, Los Angeles, Calif. Filed Jan. 18, 1930. Serial No. 421,821. Original No. 1,657,178, dated Jan. 24, 1928, Serial No. 106,461, filed May 3, 1926. 10 Claims. (Cl. 308—21.)



1. A Samson post for deep well pumps having on its top end a plane uninterrupted top load surface, and a

walking beam having a rocker portion presenting a longitudinally curved, smooth rolling tread face meeting the said surface in broad, transverse rolling-line contact; whereby to eliminate point contact of the face and the surface under load and to obtain long wear life of the meeting faces and side checks limiting sideplay of the rocker.

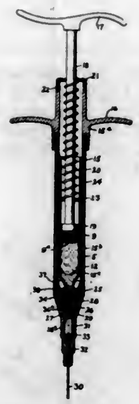
17,905. METHOD OF LUBRICATING PERFORATOR PRESSES. JOSEPH T. WRIGHT, Cincinnati, Ohio, assignor to The J. T. Wright Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 29, 1930. Serial No. 492,004. Original No. 1,734,024, dated Oct. 29, 1929, Serial No. 213,665, filed Aug. 17, 1927. 2 Claims. (Cl. 164—90.)



1. In a machine of the class described, a reciprocating cross head, one or more perforator pins dependingly sustained from said cross head, a stationary stripper bar beneath the cross head having apertures therethrough for guiding the perforator pins, and a lubricant distributing pad mounted on said stripper above the pin guiding apertures and wiping the shank portion of the pins for lubricating the pins in their reciprocating action at a point above the cutting ends of the pins.

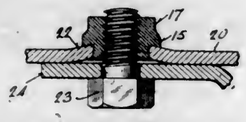
17,906. HYPODERMIC SYRINGE. ARTHUR E. SMITH, Los Angeles, Calif. Filed Feb. 12, 1927. Serial No. 167,853. Original application filed May 18, 1925, Serial No. 31,029. Renewed Sept. 23, 1926. Original No. 1,607,271, dated Nov. 16, 1926. 28 Claims. (Cl. 128—218.)

10. A syringe adapted to receive an ampule and having means at its discharge end to make fluid tight connection directly with the forward end of the body of an ampule, a plunger adapted to operate in said ampule, and means



on the interior of the syringe co-acting with said ampule and adapted to hold the ampule in place in the syringe independently of the thrust of the plunger.

17,907. ATTACHING TAPPED NUTS TO METAL PLATES. BIRGER TORVALD ANDREN, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Apr. 2, 1930. Serial No. 441,156. Original No. 1,705,463, dated Mar. 12, 1929, Serial No. 205,963, filed July 15, 1927. 20 Claims. (Cl. 29—148.)



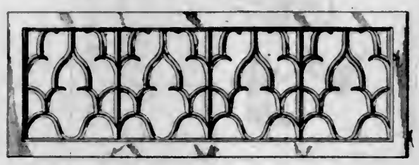
1. The method of securing tapped nuts to metal plates, which comprises the operations of providing a perforation in the plate and displacing the surrounding metal to form an embossment upon one side of the plate and a concavity upon the other, forming a nut with a shank at one side and a dished shoulder at the base of the shank to receive the said embossment, inserting the shank of the nut through the perforation in the plate with the dish of the shoulder engaging the said embossment, and expanding the metal of the shank into engagement with the wall of the perforation, to secure the nut in position, without filling the concavity.

CARNEGIE LIBRARY OF ATLANTA

DESIGNS

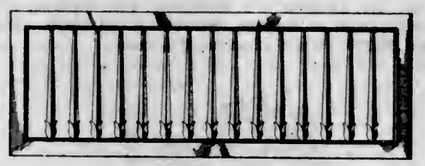
DECEMBER 16, 1930

82,778. GRILLE. JOHN ARCHIBALD ARMSTRONG, Chicago, Ill., assignor to The Herman Nelson Corporation, Moline, Ill., a Corporation of Illinois. Filed Apr. 21, 1930. Serial No. 35,328. Term of patent 14 years.



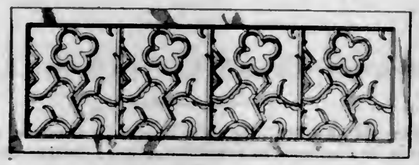
The ornamental design for a grille, as shown and described.

82,779. GRILLE. JOHN ARCHIBALD ARMSTRONG, Chicago, Ill., assignor to The Herman Nelson Corporation, Moline, Ill., a Corporation of Illinois. Filed Apr. 21, 1930. Serial No. 35,330. Term of patent 14 years.



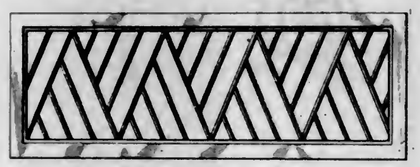
The ornamental design for a grille, as shown and described.

82,780. GRILLE. JOHN ARCHIBALD ARMSTRONG, Chicago, Ill., assignor to The Herman Nelson Corporation, Moline, Ill., a Corporation of Illinois. Filed Apr. 21, 1930. Serial No. 35,331. Term of patent 14 years.



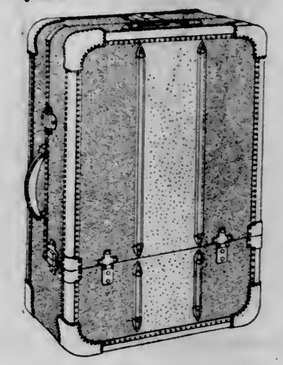
The ornamental design for a grille, as shown and described.

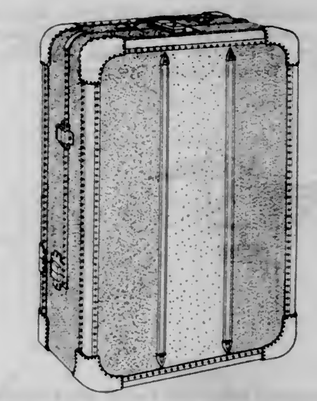
82,781. GRILLE. JOHN ARCHIBALD ARMSTRONG, Chicago, Ill., assignor to The Herman Nelson Corporation, Moline, Ill., a Corporation of Illinois. Filed Apr. 21, 1930. Serial No. 35,332. Term of patent 14 years.



The ornamental design for a grille, as shown and described.

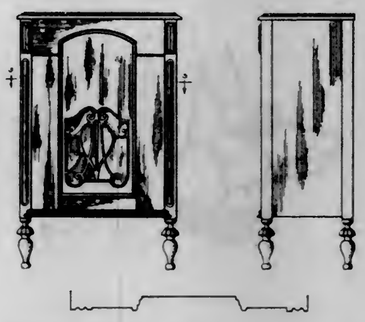
82,782. TRAVELING CASE. SAUL APTER, Cincinnati, Ohio. Filed July 10, 1930. Serial No. 36,321. Term of patent 7 years.





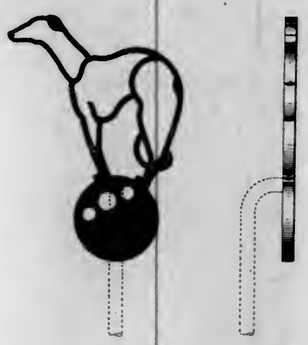
The ornamental design for a traveling case, as shown.

82,783. RADIOCABINET. HANS BERG, Grand Rapids, Mich. Filed Jan. 15, 1930. Serial No. 34,137. Term of patent 3½ years.



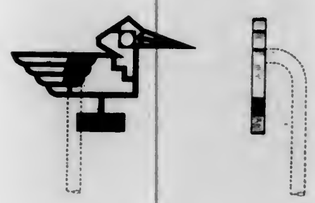
The ornamental design for a radio cabinet, substantially as shown.

82,784. SCARFPIN. CHARLES SEBASTIAN BICHELE, Chicago, Ill., assignor to J. Milhening, Inc., Chicago, Ill., a Corporation of Illinois. Filed Sept. 22, 1930. Serial No. 37,045. Term of patent 3½ years.



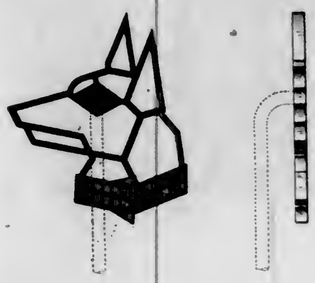
The ornamental design for a scarf pin as shown.

82,785. SCARFPIN. CHARLES SEBASTIAN BICHELE, Chicago, Ill., assignor to J. Milhening, Inc., Chicago, Ill., a Corporation of Illinois. Filed Sept. 22, 1930. Serial No. 37,046. Term of patent 3½ years.



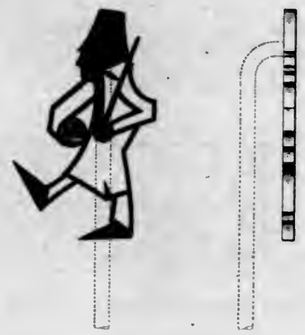
The ornamental design for a scarf pin as shown.

82,786. SCARFPIN. CHARLES SEBASTIAN BICHELE, Chicago, Ill., assignor to J. Milhening, Inc., Chicago, Ill., a Corporation of Illinois. Filed Sept. 22, 1930. Serial No. 37,047. Term of patent 3½ years.



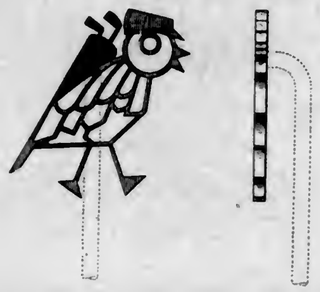
The ornamental design for a scarf pin as shown.

82,787. SCARFPIN. CHARLES SEBASTIAN BICHELE, Chicago, Ill., assignor to J. Milhening, Inc., Chicago, Ill., a Corporation of Illinois. Filed Sept. 22, 1930. Serial No. 37,048. Term of patent 3½ years.



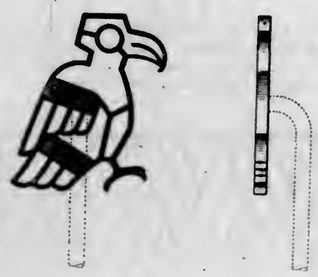
The ornamental design for a scarf pin as shown.

82,788. SCARFPIN. CHARLES SEBASTIAN BICHELE, Chicago, Ill., assignor to J. Milhening, Inc., Chicago, Ill., a Corporation of Illinois. Filed Sept. 22, 1930. Serial No. 37,049. Term of patent 3½ years.



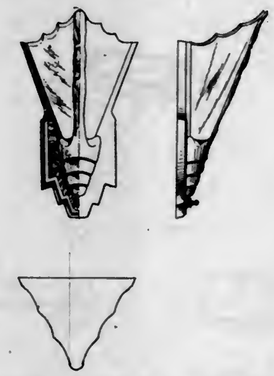
The ornamental design for a scarf pin as shown.

82,789. SCARFPIN. CHARLES SEBASTIAN BICHELE, Chicago, Ill., assignor to J. Milhening, Inc., Chicago, Ill., a Corporation of Illinois. Filed Sept. 22, 1930. Serial No. 37,050. Term of patent 3½ years.



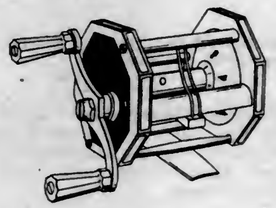
The ornamental design for a scarf pin as shown.

82,790. LIGHTING-FIXTURE BRACKET OR ARTICLE OF SIMILAR NATURE. JULIUS J. BLUMENTHAL, New York, N. Y., assignor to Lighting Appliance Company, Inc., New York, N. Y. Filed Aug. 8, 1930. Serial No. 36,605. Term of patent 3½ years.



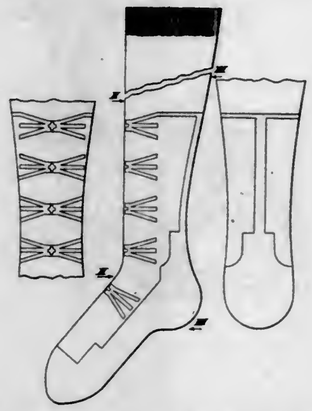
The ornamental design for a lighting fixture bracket, or article of similar nature, as shown and described.

82,791. FISHING REEL. HARRY A. BOKELUND, Kalamazoo, Mich., assignor to Shakespeare Company, Kalamazoo, Mich. Filed Oct. 20, 1930. Serial No. 37,328. Term of patent 14 years.



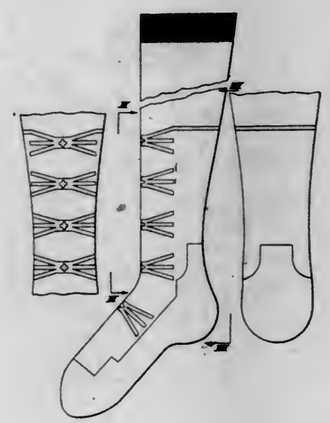
The ornamental design for a fishing reel, as shown and described.

82,792. STOCKING. WALTER D. BUTZ, Norristown, Pa. Filed Dec. 4, 1929. Serial No. 33,639. Term of patent 14 years.



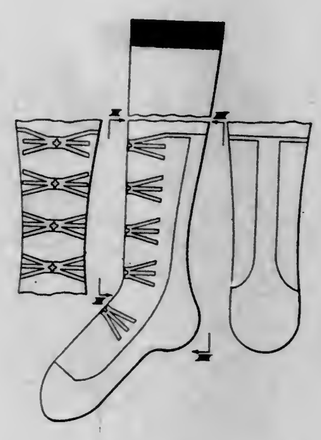
The ornamental design for a stocking, as shown.

82,793. STOCKING. WALTER D. BUTZ, Norristown, Pa. Filed Dec. 4, 1929. Serial No. 33,640. Term of patent 14 years.



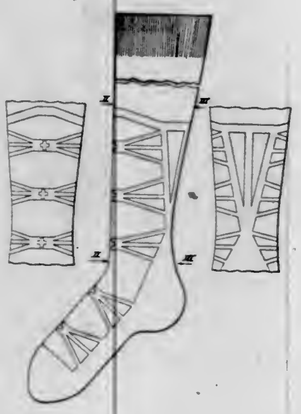
The ornamental design for a stocking, as shown.

82,794. STOCKING. WALTER D. BUTZ, Norristown, Pa. Filed Dec. 4, 1929. Serial No. 33,641. Term of patent 14 years.



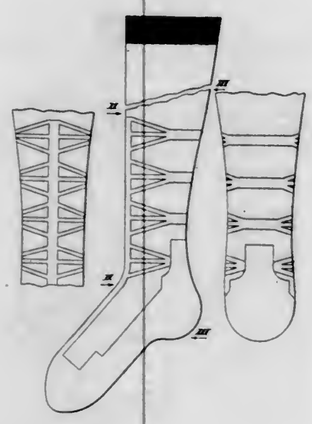
The ornamental design for a stocking, as shown.

82,795. STOCKING. WALTER D. BUTZ, Norristown, Pa. Filed Dec. 4, 1929. Serial No. 33,643. Term of patent 14 years.



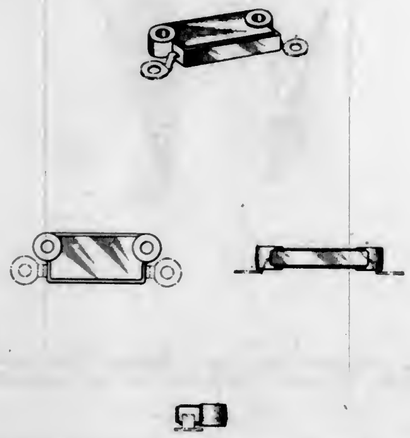
The ornamental design for a stocking, as shown.

82,796. STOCKING. WALTER D. BUTZ, Norristown, Pa. Filed Dec. 4, 1929. Serial No. 33,642. Term of patent 14 years.



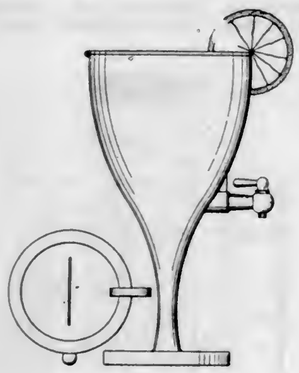
The ornamental design for a stocking, as shown.

82,797. CONDENSER CASING. SAMUEL I. COLE, Brooklyn, N. Y. Filed Dec. 19, 1929. Serial No. 33,850. Term of patent 7 years.



The ornamental design for a condenser casing substantially as shown and described.

82,798. BEVERAGE DISPENSER. HARRY E. CROSBY, Huntington Park, Calif., assignor to California Crushed Fruit Corporation, Los Angeles, Calif., a Corporation of Delaware. Filed June 20, 1930. Serial No. 36,113. Term of patent 7 years.



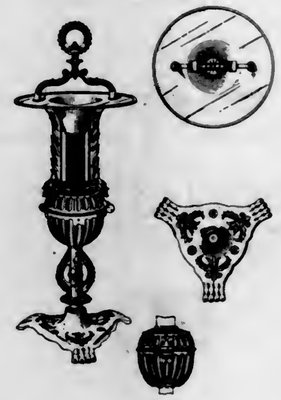
The ornamental design for a beverage dispenser, as shown.

82,799. ASH TRAY. ALICE CULIN, New York, N. N. Filed Sept. 8, 1930. Serial No. 36,894. Term of patent 7 years.



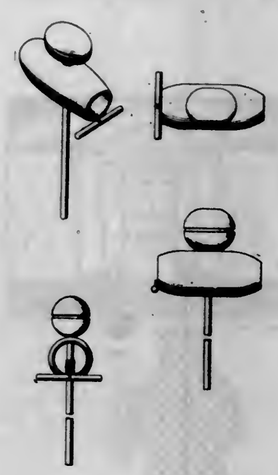
The ornamental design for an ash tray, as shown.

82,800. SMOKER'S STAND. HUBERT DALTON, Stamford, Conn. Filed Aug. 12, 1930. Serial No. 36,638. Term of patent 14 years.



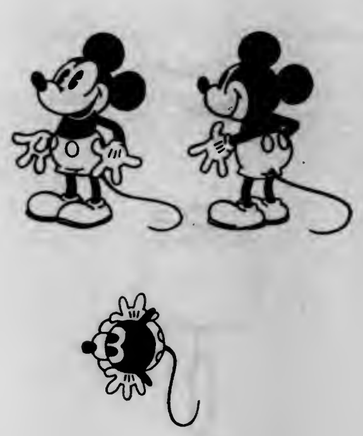
The ornamental design for a smoker's stand, as shown.

82,801. TOY. NICHOLAS DEAKIDES, Athens, Ga. Filed Sept. 18, 1930. Serial No. 37,014. Term of patent 3½ years.



The ornamental design for a toy, as shown.

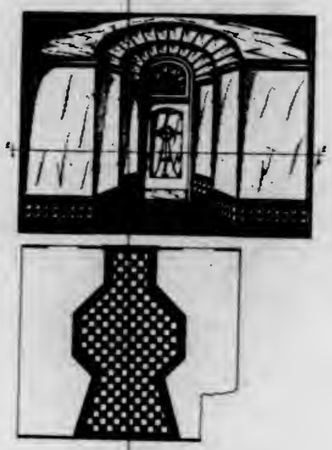
82,802. TOY OR SIMILAR ARTICLE. WALTER E. DISNEY, Los Angeles, Calif. Filed Oct. 30, 1929. Serial No. 33,219. Term of patent 14 years.



The ornamental design for a toy or similar article substantially as shown.

82,803. [WITHDRAWN.]

82,804. STORE FRONT. ALBERT I. ELIAS, Long Beach, N. Y., assignor to Wise Shoes, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 15, 1929. Serial No. 32,414. Term of patent 3½ years.



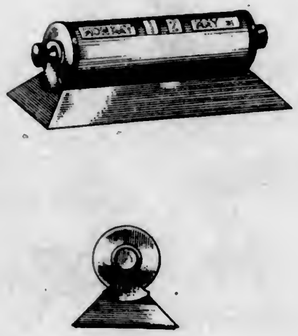
The ornamental design for a store front as shown and described.

82,805. LATCH. WILLIAM D. FERRIS, Sterling, Ill., assignor to Frantz Manufacturing Co., Sterling, Ill., a Corporation of Illinois. Filed July 25, 1930. Serial No. 36,478. Term of patent 14 years.



The ornamental design for a latch, as shown and described.

82,806. PERPETUAL CALENDAR. HOWARD L. FISCHER, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a Corporation of Minnesota. Filed Mar. 22, 1930. Serial No. 34,998. Term of patent 14 years.



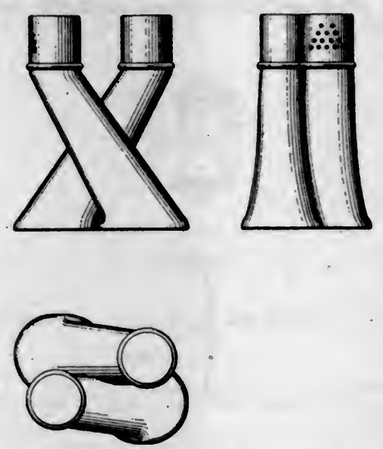
The ornamental design for a perpetual calendar as shown.

82,807. COMPASS OR SIMILAR ARTICLE. JOHN H. FISCHER, New York, N. Y., assignor to Eagle Pencil Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 12, 1929. Serial No. 30,446. Term of patent 7 years.



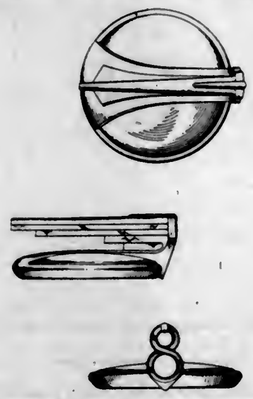
The ornamental design for a compass or similar article, substantially as shown and described.

82,808. CONDIMENT HOLDER. WILBUR A. FISHER, Temple, Tex. Filed July 22, 1930. Serial No. 36,441. Term of patent 14 years.



The ornamental design for a condiment holder, as shown.

82,809. RADIATOR CAP. KINGSTON FORBES, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed May 28, 1930. Serial No. 35,824. Term of patent 14 years.



The ornamental design for a radiator cap, as shown.

82,810. APPAREL BUCKLE. LEON FRANK, Baltimore, Md., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed June 5, 1930. Serial No. 35,922. Term of patent 3½ years.



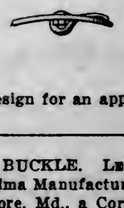
The ornamental design for an apparel buckle, as shown.

82,811. APPAREL BUCKLE. LEON FRANK, Baltimore, Md., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed June 5, 1930. Serial No. 35,923. Term of patent 3½ years.



The ornamental design for an apparel buckle, as shown.

82,812. APPAREL BUCKLE. LEON FRANK, Baltimore, Md., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed June 5, 1930. Serial No. 35,924. Term of patent 3½ years.



The ornamental design for an apparel buckle, as shown.

82,813. APPAREL BUCKLE. LEON FRANK, Baltimore, Md., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed June 5, 1930. Serial No. 35,925. Term of patent 3½ years.



The ornamental design for an apparel buckle, as shown.

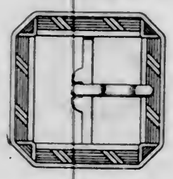
82,814. APPAREL BUCKLE. LEON FRANK, Baltimore, Md., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed June 5, 1930. Serial No. 35,928. Term of patent 3½ years.





The ornamental design for an apparel buckle, as shown.

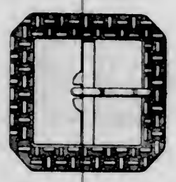
82,815. APPAREL BUCKLE. LEON FRANK, Baltimore, Md., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed June 5, 1930. Serial No. 35,929. Term of patent 3½ years.





The ornamental design for an apparel buckle, as shown.

82,816. APPAREL BUCKLE. LEON FRANK, Baltimore, Md., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed June 5, 1930. Serial No. 35,930. Term of patent 3½ years.





The ornamental design for an apparel buckle, as shown.

82,817. APPAREL BUCKLE. LEON FRANK, Baltimore, Md., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed June 5, 1930. Serial No. 35,931. Term of patent 3½ years.





The ornamental design for an apparel buckle, as shown.

82,818. APPAREL BUCKLE. LEON FRANK, Baltimore, Md., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed June 5, 1930. Serial No. 35,932. Term of patent 3½ years.





The ornamental design for an apparel buckle, as shown.

82,819. APPAREL BUCKLE. LEON FRANK, Baltimore, Md., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed June 5, 1930. Serial No. 35,933. Term of patent 3½ years.





The ornamental design for an apparel buckle, as shown.

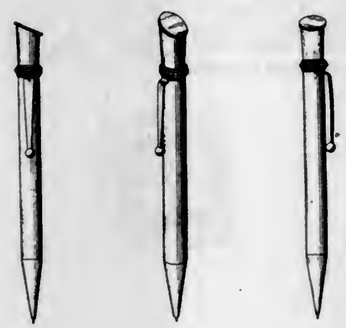
82,820. APPAREL BUCKLE. LEON FRANK, Baltimore, Md., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed June 5, 1930. Serial No. 35,934. Term of patent 3½ years.





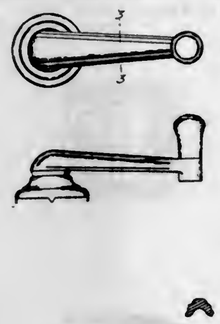
The ornamental design for an apparel buckle, as shown.

82,821. PENCIL. FRANK FUREDY, Penn-Wynne, Pa. Filed Sept. 17, 1930. Serial No. 36,991. Term of patent 14 years.



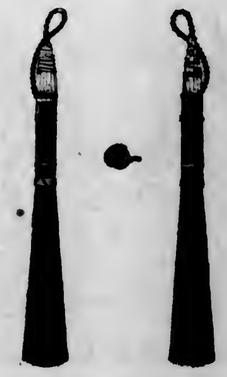
The ornamental design for a pencil, as shown and described.

82,822. MOTOR-VEHICLE WINDOW-REGULATOR HANDLE. GEORGE GRAFF, Toledo, Ohio, assignor to the Dura Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 28, 1930. Serial No. 35,422. Term of patent 14 years.



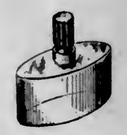
The ornamental design for a motor vehicle window regulator handle substantially as shown.

82,823. HEARTH BROOM. GUSTAVUS A. HANCOCK, Oak Lane, Pa. Filed Sept. 26, 1929. Serial No. 32,875. Term of patent 3½ years.



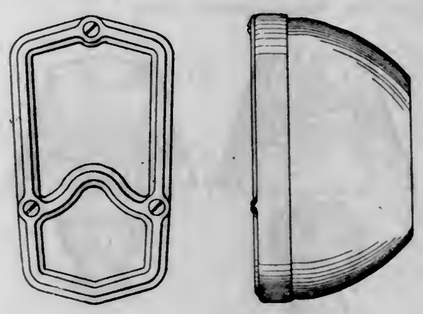
The ornamental design for a hearth broom as shown and described.

82,824. BOTTLE OR SIMILAR ARTICLE. WILLIAM W. HOBÉ, New York, N. Y. Filed Oct. 29, 1929. Serial No. 33,205. Term of patent 3½ years.



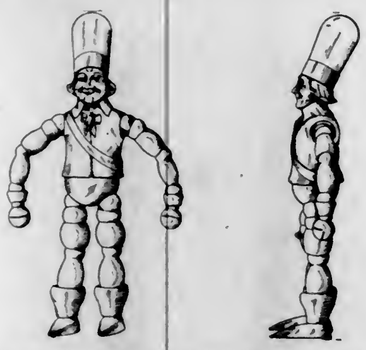
The ornamental design for a bottle or similar article substantially as showu.

82,825. COMBINED TAIL AND STOP LIGHT FOR MOTOR VEHICLES. ROY W. JOHNSON, Columbus, Ohio, assignor to The Checker Cab Manufacturing Company, Kalamazoo, Mich., a Corporation of New Jersey. Filed Sept. 12, 1930. Serial No. 36,952. Term of patent 3½ years.



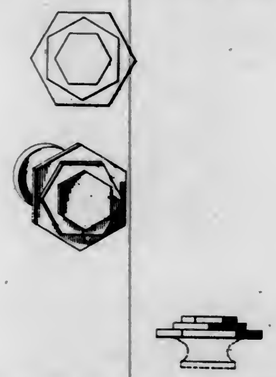
The ornamental design for a combined tail and stop light for motor vehicles, as shown.

82,826. ADVERTISING DOLL. JOSEPH L. KALLUS, Brooklyn, N. Y. Filed Oct. 7, 1930. Serial No. 37,178. Term of patent 14 years.



The ornamental design for an advertising doll, as shown and described.

82,827. KNOB. HENRY J. KASCH, Dayton, Ohio. Filed Aug. 12, 1929. Serial No. 32,390. Term of patent 14 years.



The ornamental design for a knob substantially as shown and described.

82,828. TABLE LAMP. SAMUEL J. KAZ, Chicago, Ill., assignor to Mohawk Products Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 30, 1930. Serial No. 37,096. Term of patent 7 years.



The ornamental design for a table lamp substantially as shown and described.

82,829. APPAREL BUCKLE. ALLEN H. KERNGOOD, Baltimore, Md., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed June 5, 1930. Serial No. 35,935. Term of patent 3½ years.



The ornamental design for an apparel buckle, as shown.

82,830. APPAREL BUCKLE. ALLEN H. KERNGOOD, Baltimore, Md., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed June 5, 1930. Serial No. 35,936. Term of patent 3½ years.



The ornamental design for an apparal buckle, as shown.

82,831. APPAREL BUCKLE. ALLEN H. KERNGOOD, Baltimore, Md., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed June 5, 1930. Serial No. 35,937. Term of patent 3½ year.



The ornamental design for an apparel buckle, as shown.

82,832. APPAREL BUCKLE. ALLEN H. KERNGOOD, Baltimore, Md., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed June 5, 1930. Serial No. 35,938. Term of patent 3½ years.



The ornamental design for an apparel buckle, as shown.

82,833. APPAREL BUCKLE. ALLEN H. KERNGOOD, Baltimore, Md., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed June 5, 1930. Serial No. 35,939. Term of patent 3½ years.



The ornamental design for an apparel buckle, as shown.

82,834. APPAREL BUCKLE. ALLEN H. KERNGOOD, Baltimore, Md., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed June 5, 1930. Serial No. 35,940. Term of patent 3½ years.



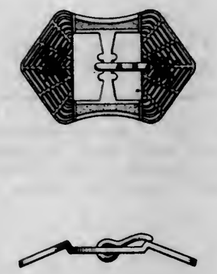
The ornamental design for an apparel buckle, as shown.

82,835. APPAREL BUCKLE. ALLEN H. KERNGOOD, Baltimore, Md., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed June 5, 1930. Serial No. 35,941. Term of patent 3½ years.



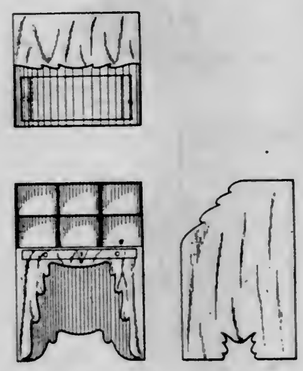
The ornamental design for an apparel buckle, as shown.

82,836. APPAREL BUCKLE. ALLEN H. KERNGOOD, Baltimore, Md., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed June 5, 1930. Serial No. 35,942. Term of patent 3½ years.



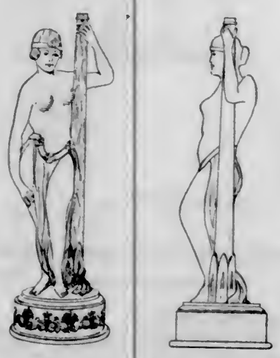
The ornamental design for an apparel buckle, as shown.

82,837. TOY DESK OR SIMILAR ARTICLE. JULIUS KIVY, Brooklyn, N. Y. Filed July 31, 1930. Serial No. No. 36,522. Term of patent 3½ years.



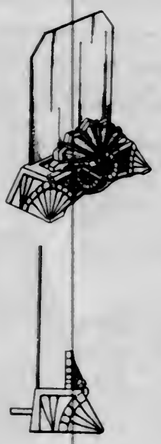
The ornamental design for a toy desk or similar article, as shown.

82,838. LAMP BASE OR ARTICLE OF ANALOGOUS NATURE. MICHAEL KIWAD, New York, N. Y., assignor to La Belle Specialty Co., Inc., a Corporation of New York. Filed Oct. 16, 1930. Serial No. 37,271. Term of patent 3½ years.



The ornamental design for a lamp base or article of analogous nature substantially as shown.

82,839. TABLE LAMP. MORRIS KORNBLUM, Brooklyn, N. Y., assignor to Metal Lamp Corporation, Brooklyn, N. Y., a Corporation of New York. Filed May 12, 1930. Serial No. 35,609. Term of patent 3½ years.



The ornamental design for a table lamp, as shown.

82,840. COAT. DOROTHY LONG, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 27, 1930. Serial No. 36,807. Term of patent 3½ years.



The ornamental design for a coat substantially as shown and described.

82,841. DRESS. DOROTHY LONG, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 27, 1930. Serial No. 36,808. Term of patent 3½ years.



The ornamental design for a dress substantially as shown and described.

82,842. PICTURE FRAME. SALVATOR MAGGIO, Pittsburgh, Pa. Filed July 31, 1930. Serial No. 36,527. Term of patent 14 years.



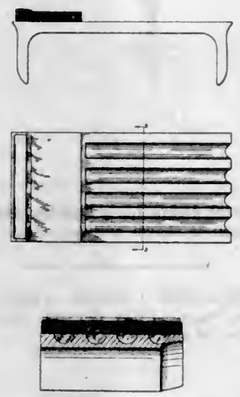
The ornamental design for a picture frame, as shown.

82,843. DOLL. LOTTIE LAURIE MCCALL, Biloxi, Miss. Filed Oct. 4, 1930. Serial No. 37,141. Term of patent 14 years.



The ornamental design for a doll, substantially as shown.

82,844. COMBINED TELEPHONE PAD AND PENCIL HOLDER. LEO A. MELTZER, Seattle, Wash. Filed Aug. 6, 1930. Serial No. 36,567. Term of patent 14 years.



The ornamental design for a combined telephone pad and pencil holder, as shown.

82,845. LADY'S NECKPIECE. FLOY C. MERRILIES, Chicago, Ill. Filed Sept. 24, 1930. Serial No. 37,066. Term of patent 14 years.



The ornamental design for a lady's neckpiece as shown and described.

82,846. KEY CASE. JOSEPH A. PARRELLA, Washington, D. C. Filed Oct. 4, 1930. Serial No. 37,143. Term of patent 14 years.



The ornamental design for a key case, as shown.

82,847. SHOE ORNAMENT. SAMUEL M. RIKER, Chester, N. J. Filed Mar. 7, 1930. Serial No. 34,764. Term of patent 7 years.



The ornamental design for a shoe ornament, as shown.

82,848. SHOE BUCKLE. SAMUEL M. RIKER, Chester, N. J. Filed Mar. 7, 1930. Serial No. 34,765. Term of patent 7 years.



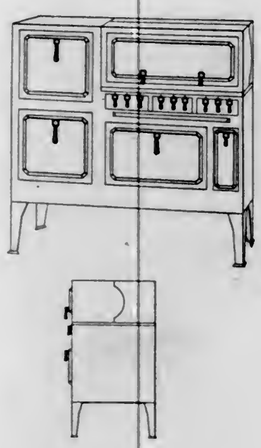
The ornamental design for a shoe buckle, as shown.

82,849. SHOE BUCKLE SAMUEL M. RIKER, Chester, N. J. Filed Mar. 7, 1930. Serial No. 34,772. Term of patent 7 years.



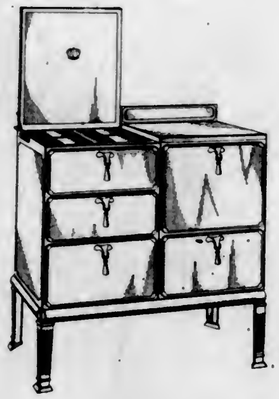
The ornamental design for a shoe buckle, as shown.

82,850. GAS STOVE. ALFRED J. REEDY, Battle Creek, Mich., assignor to A-B Stove Company, Battle Creek, Mich. Filed Oct. 7, 1929. Serial No. 32,964. Term of patent 7 years.



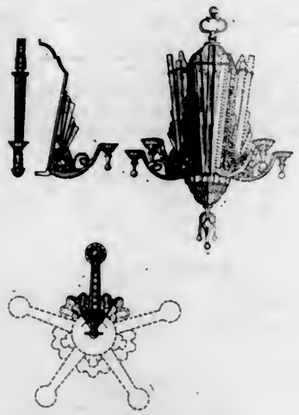
The ornamental design for a gas stove as shown.

82,851. GAS STOVE. WALTER F. ROGERS, Cicero, Ill., assignor to Crown Stove Works, Cicero, Ill., a Corporation of Illinois. Filed Sept. 22, 1930. Serial No. 37,035. Term of patent 14 years.



The ornamental design for a gas stove, as shown and described.

82,852. LIGHTING FIXTURE OR ARTICLE OF SIMILAR NATURE. ISIDOR ROSENBLATT, New York, N. Y. Filed Oct. 9, 1930. Serial No. 37,205. Term of patent 7 years.



The ornamental design for a lighting fixture, or article of similar nature, as shown and described.

82,853. FLASH-LIGHT CASING. JAMES L. SHANNON, Longmeadow, Mass. Filed Oct. 17, 1930. Serial No. 37,280. Term of patent 14 years.



The ornamental design for a flashlight casing, as shown.

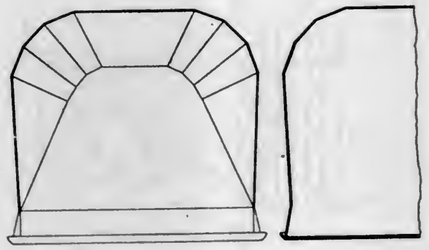
82,854. SUSPENDER-END TOP LINK. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Sept. 3, 1929. Serial No. 32,647. Term of patent 3½ years.



The ornamental design for a suspender-end top link, as shown.

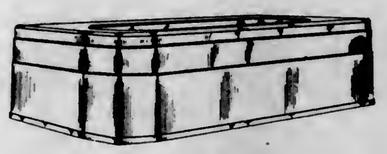
82,855. GRAVE VAULT. RALPH E. SMITH, Galion, Ohio, assignor to The Galion Metallic Vault Company, Galion, Ohio, a Corporation of Ohio. Filed Aug. 4, 1930. Serial No. 36,548. Term of patent 7 years.





The ornamental design for a grave vault, substantially as shown.

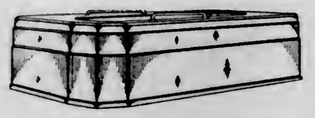
82,856. BATHTUB. CARMI J. STEELE, Los Angeles, Calif., assignor of one-third to Roy C. Troeger and one-third to Wallace R. Coates, Los Angeles, Calif. Filed June 30, 1930. Serial No. 36,238. Term of patent 14 years.

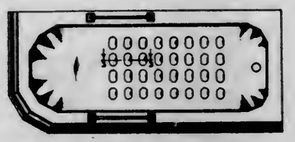




The ornamental design for a bathtub, as shown.

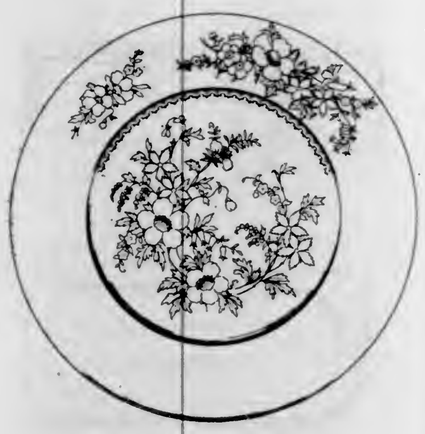
82,857. BATHTUB. CARMI J. STEELE, Los Angeles, Calif., assignor of one-third to Roy C. Troeger and one-third to Wallace R. Coates, Los Angeles, Calif. Filed June 30, 1930. Serial No. 36,239. Term of patent 14 years.





The ornamental design for a bathtub, as shown.

82,858. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, Astoria, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Jan. 14, 1929. Serial No. 29,605. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown and described.

82,859. WOMAN'S SHOE. SEYMOUR TROY, New York, N. Y. Filed Oct. 17, 1930. Serial No. 37,291. Term of patent 14 years.



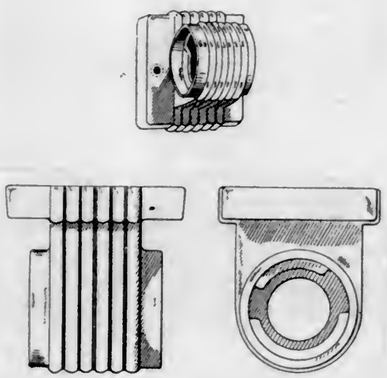
The ornamental design for a woman's shoe substantially as shown.

82,860. WOMAN'S SHOE. SEYMOUR TROY, New York, N. Y. Filed Oct. 17, 1930. Serial No. 37,292. Term of patent 14 years.



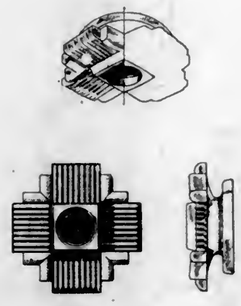
The ornamental design for a woman's shoe substantially as shown.

82,861. LIGHTING FIXTURE OR ARTICLE OF SIMILAR NATURE. WALTER VON NESSEN, New York, N. Y., assignor to Efcolite Corporation, Trenton, N. J. Filed May 24, 1930. Serial No. 35,745. Term of patent 7 years.



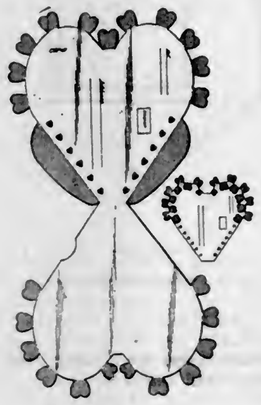
The ornamental design for a lighting fixture or article of similar nature, as shown.

82,862. LIGHTING FIXTURE OR ARTICLE OF SIMILAR NATURE. WALTER VON NESSEN, New York, N. Y., assignor to Efcolite Corporation, Trenton, N. J. Filed May 24, 1930. Serial No. 35,747. Term of patent 7 years.



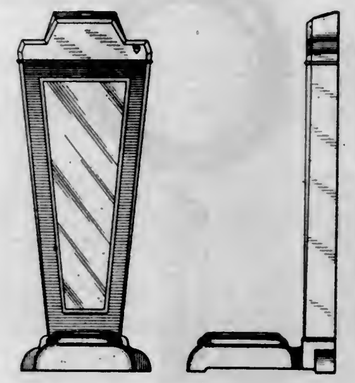
The ornamental design for a lighting fixture or article of similar nature, as shown and described.

82,863. VALENTINE ENVELOPE. MAHALA WARREN, Wetumka, Okla. Filed Apr. 22, 1930. Serial No. 35,341. Term of patent 7 years.



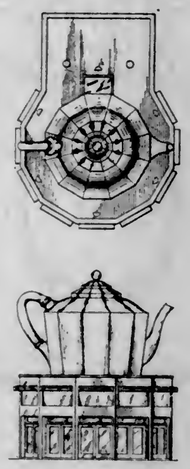
The ornamental design for a valentine envelope, as shown.

82,864. CASING FOR A WEIGHING SCALE. THOMAS W. B. WATLING, Chicago, Ill. Filed Oct. 7, 1930. Serial No. 37,170. Term of patent 7 years.



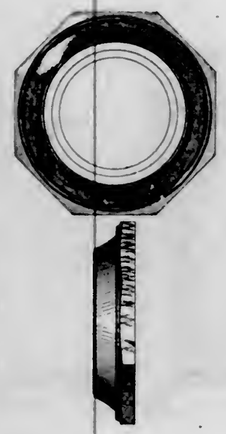
The ornamental design for a casing for a weighing scale, as shown.

82,865. SELLING BOOTH. EUGENE L. WEAVER, Los Angeles, Calif., assignor to Harry B. Carpenter, Los Angeles, Calif. Filed Oct. 2, 1930. Serial No. 37,106. Term of patent 3½ years.



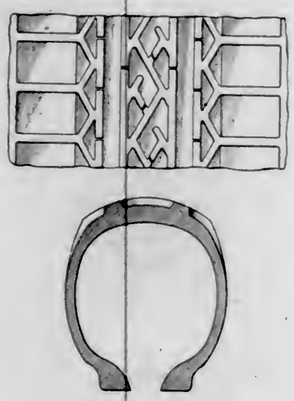
The ornamental design for a selling booth, as shown.

82,866. CLOCK CASE. RICHARD H. WHITEHEAD, New Haven, Conn., assignor to The New Haven Clock Company, New Haven, Conn., a Corporation. Filed July 25, 1929. Serial No. 32,201. Term of patent 14 years.



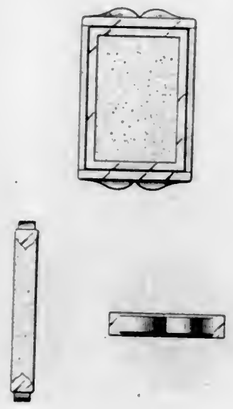
The ornamental design for a clock-case as shown.

82,867. TIRE OR SIMILAR ARTICLE. FLOYD S. YOUNG, Shenandoah, Iowa, assignor to May Seed & Nursery Co., Shenandoah, Iowa., a Corporation of Iowa. Filed July 2, 1928. Serial No. 27,359. Term of patent 3½ years.



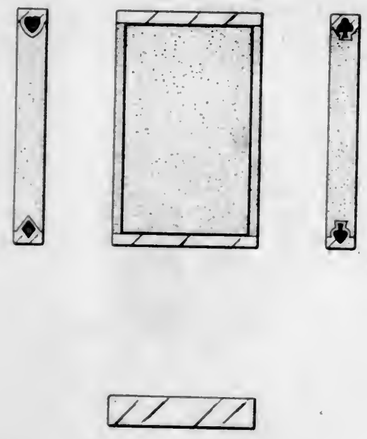
The ornamental design for a tire or similar article, as shown.

82,868. VANITY CASE OR ANALOGOUS ARTICLE. DAVID H. ZELL, Brooklyn, N. Y. Filed July 23, 1930. Serial No. 36,447. Term of patent 3½ years.



The ornamental design for a vanity case or analogous article, as shown.

82,869. VANITY CASE OR ANALOGOUS ARTICLE. DAVID H. ZELL, Brooklyn, N. Y. Filed July 23, 1930. Serial No. 36,448. Term of patent 3½ years.

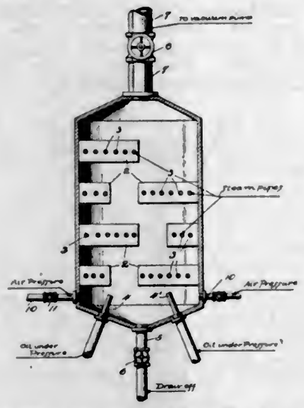


The ornamental design for a vanity case or analogous article, as shown and described.

PATENTS

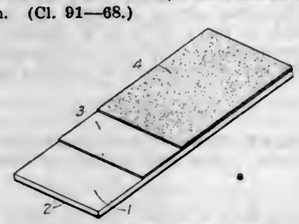
GRANTED DECEMBER 16, 1930

1,784,809. LUBRICANT AND PROCESS OF PRODUCING THE SAME. NELS C. BEIM, Minneapolis, Minn. Filed Mar. 19, 1928. Serial No. 262,959. 1 Claim. (Cl. 87—9.)



The process of producing a lubricant for internal combustion motors and the like, which consists in injecting substantially equal quantities of two grades of commercial lubricating oil into a closed chamber under heavy pressure, whereby a substantially complete physical and structural intermixture of the two results; subjecting the mixture to the action of a partial vacuum of approximately 10 lbs.; heating the mixture to approximately 425° F. to drive off a portion of the lighter fractions; adding approximately .3 of 1% of magnesium stearate to the residuum while agitating the mixture; and filtering the resulting product.

1,784,810. FLOOR COVERING. ROBERT D. BONNEY, Glen Ridge, N. J., and WILLIAM Y. IRWIN, Jr., Moores, Pa., assignors to Congoleum-Nairn, Inc., a Corporation of New York. Filed Oct. 8, 1928. Serial No. 310,977. 1 Claim. (Cl. 91—68.)

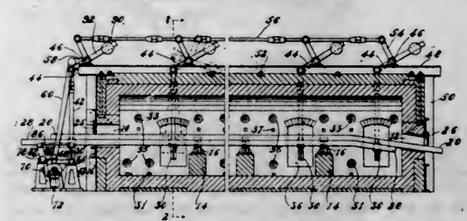


As a new article of manufacture, a floor covering comprising a body of felt saturated with waterproofing material; a facing coat of paint applied to one side thereof and forming a wearing surface; and a backing coat on the opposite side; said backing coat comprising a thin film of discrete particles of a metallic powder and a flaky mineral substance, and a pigmented bonding medium adhesively securing said film to said body and partially visible through said film.

1,784,811. SILICON STEEL. VERE B. BROWNE, Brackenridge, Pa. Filed Feb. 13, 1930. Serial No. 428,244. 9 Claims. (Cl. 175—21.)

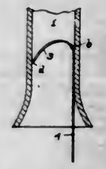
1. Silicon steel containing at least about 3.% silicon and characterized by having a watt loss value exclusive of cutting strains of less than .500 watts per pound as indicated by the standard Epstein test and by having relatively high permeability.

1,784,812. FURNACE AND CONVEYER THEREFOR. RALF S. COCHRAN, Toledo, Ohio, assignor to The Surface Combustion Co., Incorporated, Toledo, Ohio, a Corporation of New York. Filed Apr. 23, 1928. Serial No. 272,020. 20 Claims. (Cl. 263—6.)



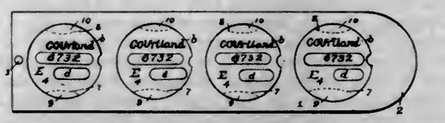
7. In combination, a furnace chamber having work entering and discharging openings at opposite ends, a conveyer of the work lifting and translating type in line with said openings, said conveyer being positioned above the floor of the chamber, and means extending upwardly through the furnace side walls for supporting the movable part of the conveyer.

1,784,813. MEMORANDUM TICKET FOR TELEPHONE SERVICE. GEORGE D. COX, Philadelphia, Pa. Filed Mar. 19, 1930. Serial No. 437,179. 2 Claims. (Cl. 302—2.)



1. In a telephone memorandum distribution system wherein tickets containing memoranda are transmitted through pneumatic tubes rectangular in cross section, a ticket made of uncalendered fibred paper having the fibre running lengthwise of the tickets, of a width corresponding to the longest width of the inside section of the tube, and consisting of a main body portion, and a flap, the width of which exceeds slightly the breadth of the rectangular cross section of the said tube, and having the hinge between the main body of the ticket and the flap running at right angles with the side edges of the flap and across the fibre of the paper.

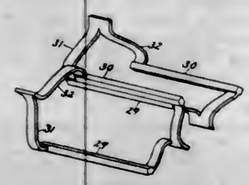
1,784,814. TELEPHONE-INSTALLER'S OMNIBUS NUMBER SIGN CARD. GEORGE D. COX, Philadelphia, Pa. Filed Apr. 25, 1930. Serial No. 447,250. 3 Claims. (Cl. 40—2.)



1. A telephone installer's omnibus number sign card, which consists of a card containing a series of discs, hav-

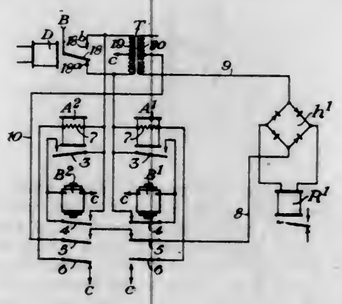
ing around the circumferences of each of said discs a cut passing nearly through the body of the card and almost severing the disc therefrom, said disc having wings partially severed from the main portion of the disc but much more grmly attached thereto than the discs are to the card.

1,784,815. DYNAMO-ELECTRIC-MACHINE ELEMENT. VINCENT G. APPLE, Dayton, Ohio. Filed June 14, 1928. Serial No. 285,361. 8 Claims. (Cl. 172—120.)



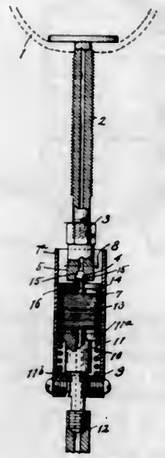
1. In a winding for a dynamo electric machine element having a core with partially closed slots, a closed loop integrally comprising two spaced apart inductor bars and connecting ends, a bar being of a cross section which will fit and which may be endwise entered thru the wider portion of one of the core slots, the connecting ends at one end of said bar being of such cross section and extending from the bar in such direction as may be endwise passed thru the narrow or open part of the same slot.

1,784,816. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. HERMAN G. BLOSSER, Pittsburgh, and RONALD A. MCCANN, Swissvale, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Sept. 20, 1929. Serial No. 394,054. 2 Claims. (Cl. 246—63.)



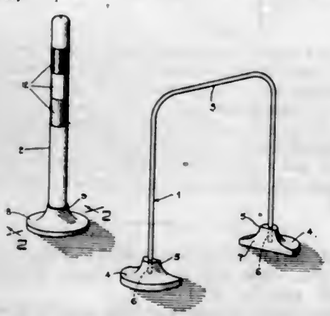
1. Railway train carried governing apparatus comprising a master relay controlled from the trackway and having an armature adapted to oscillate in response to impulses received from the trackway, two thermal relays each having a heating winding and a normally open contact which closes after the winding has been energized for a given interval of time, two auxiliary slow-releasing relays associated with said two thermal relays respectively, a circuit for the winding of one thermal relay including a contact closed when said master relay armature is in one extreme position and a back contact of the associated auxiliary relay, a circuit for the winding of the other thermal relay including a contact closed when the armature of said master relay is in the other extreme position and a back contact of the associated auxiliary relay, a pick-up circuit for the first auxiliary relay including said first master relay armature contact and the contact of the associated thermal relay, a stick circuit for said first auxiliary relay including its own front contact and said first master relay armature contact, a pick-up circuit for the second auxiliary relay including said second master relay armature contact and the contact of the associated thermal relay, a stick circuit for said second auxiliary relay including its own front contact and said second master relay armature contact, a train control relay, and means for energizing said train control relay while said master relay armature is oscillating if and only if the front contacts of both of said auxiliary relays are closed.

1,784,817. HAND GRIP AND AIR CONNECTER. ADELBERT E. BRONSON, Cleveland Heights, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 12, 1927. Serial No. 212,445. 2 Claims. (Cl. 285—176.)



1. In a device of the character described, the combination with a sleeve member, a pair of heads within the sleeve and movable with respect thereto, a flexible means connecting said heads and forming a chamber between the same, means carried by the sleeve and cooperating with an extension from one of said heads for guiding said head in its movement and providing a stop limiting the movement of said head, a spring normally urging said last-mentioned head toward the other of said heads, said other head being provided with a formation for cooperation with a member to which air is to be supplied, the first mentioned head being provided with an air passage through which air may be introduced into the chamber between the heads.

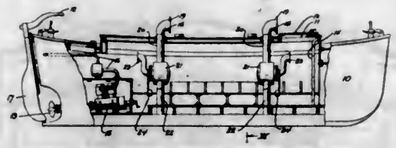
1,784,818. GAME. LEWIS C. BUMP, Brandon, Vt. Filed Dec. 27, 1928. Serial No. 328,742. 5 Claims. (Cl. 273—56.)



3. Apparatus for playing croquet comprising a wicket adapted to be forced into the ground, and detachable

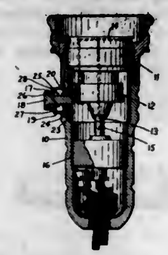
holders for supporting the wicket without penetration of the supporting surface, said holders each being a sector of a circle and having bores closely adjacent the straight sides thereof for receiving the lower ends of the wicket, the straight sides being arranged toward each other when the wicket is set up.

1,784,819. LIFEBOAT. LOUIS COCHARD, Napa, Calif. Filed Sept. 3, 1929. Serial No. 389,038. 3 Claims. (Cl. 9—4.)



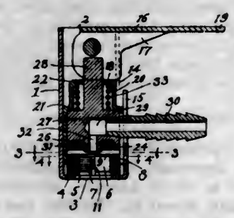
1. A lifeboat comprising a hull, said hull being completely decked over, a drum arranged within the hull, a vertical pipe extending from the drum through the deck, a cowl fitted to the upper end of said pipe exterior of the hull, conduit extending from the bottom of the drum through the bottom of the hull, an air inlet pipe connected to the drum and having an open end disposed within the hull above the water-line, said air inlet pipe being revolvably connected to the drum, and means for constantly maintaining said pipe in its uppermost position.

1,784,820. ELECTRICAL SWITCH. JOSEPH H. COHEN, Bridgeport, Conn. Filed Dec. 18, 1924. Serial No. 756,740. 2 Claims. (Cl. 200—172.)



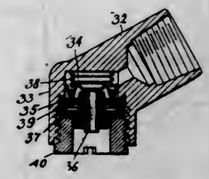
1. A push-button switch device comprising a shell having a confined chamber at one end and an integral reduced nipple at the other end adapted to be inserted in an opening adapted to receive it and to be beaded over the periphery of said opening to secure the shell therein; and a button slidably mounted in said shell and having means formed integral therewith in the confined chamber for retaining the button to the shell.

1,784,821. CONNECTING DEVICE FOR FLUID-PRESSURE HOSE. JOHN C. CROWLEY, Cleveland Heights, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 15, 1928. Serial No. 254,341. 4 Claims. (Cl. 285—150.)



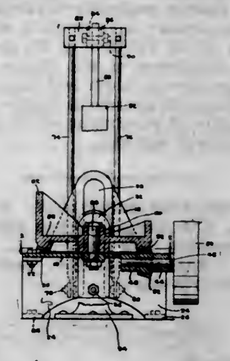
1. A device of the character described comprising a casing, a contractible chuck arranged at one end of said casing adapted to engage the inlet stem of the receptacle to which the device is to be attached and having a portion of its circumference provided with a taper, an operating member connected with said casing, and a slidable member in said casing intermediate said operating member and said chuck adapted to be moved by the former into engagement with the tapered portion of the latter for contracting the same and clamping the device to the stem.

1,784,822. AIR CHUCK. JOHN C. CROWLEY, Cleveland Heights, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 15, 1928. Serial No. 254,342. 6 Claims. (Cl. 284—17.)



4. An air chuck comprising a valve housing member having a chambered head and an air inlet passage thereto, said head having an opening, closure means for said opening which is also provided with an opening, a member held in operative association with said closure means having a part extending through and above the opening therein provided with a passageway, a valve arranged in said head having a relatively narrow offset depression, the wall of said valve at the base of said depression being adapted to be engaged by the extended part of said last named member and to extend across the passageway therein when the chuck is applied to a valve stem, and a spring adapted to normally maintain said valve in engagement with its seat.

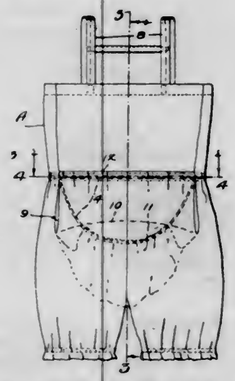
1,784,823. PUMP JACK. ROSS T. CRUIKSHANK, Minneapolis, Minn. Filed June 7, 1929. Serial No. 369,230. 3 Claims. (Cl. 74—14.)



1. A pump jack comprising a horizontal supporting plate, a vertically disposed guide member having horizontal flanges secured to said plate, said guide member being downwardly extended to form legs and containing a vertical slot, a slide working in said slot, front and rear plates for holding said slide in said slot, bolts passing through said plates and slide, one of said bolts being extended and carrying a roller, a disk member rotatably mounted on said supporting plate by a vertical pivot, an annular cam extending up from said disk member and engaged by said roller, an annular gear extending down

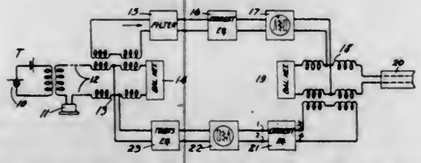
from said disk member, a shaft rotatably mounted below said annular gear, a pinion secured to said shaft and meshing with said annular gear, a driving pulley secured to the outer end of said shaft, and pump links attached to said slide.

1,784,824. GARMENT. BERTHA SUZANNE DE LONG, Minneapolis, Minn. Filed Apr. 12, 1928. Serial No. 269,401. 5 Claims. (Cl. 2—78.)



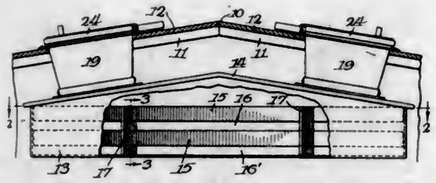
5. A garment adapted to embrace the body of a wearer, having a seat opening extending downwardly from the back of the waistline thereof, a flap having top and side edges secured to the lower rear portion of the garment and adapted to cover said opening when upwardly extended, a flexible strip secured to the inner side of the waistline forwardly of the edges of the seat opening and elastics mounted at the top of said flap and extending laterally of the edges of said flap, the forward portions of said elastics projecting inwardly through the waistline of the garment adjacent the edges of the seat opening and being permanently mounted in said strip, whereby said elastics will normally hold said flap in upwardly raised position against the rear portion of the waistline of the garment to close said opening, but will permit said flap to be bodily dropped to expose the said opening without detachment of said elastics from said strip, forward portions of said elastics projecting inwardly through the waistline of the garment being partially withdrawable to gather portions of the waistline of the garment between the points of attachment of the elastics to said strip and the portions through which said elastics extend and thereby afford long and stretchable lengths of the elastics between the points of attachment of the elastics to the strip and the edges of said flap.

1,784,825. SPEECH TRANSMISSION. HOMER W. DUDLEY, Teaneck, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 5, 1929. Serial No. 390,491. 5 Claims. (Cl. 178—44.)



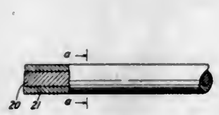
3. The method of receiving highly attenuated speech currents which comprises equalizing the intensities of the received currents of different frequencies at low energy level, amplifying the equalized currents uniformly and thereafter restoring the frequency distribution of the energy to normal.

1,784,826. WATER TANK FOR STOCK CARS. ISRAEL V. EDGERTON, Chicago, Ill., assignor to Palace Poultry Car Company, Chicago, Ill., a Corporation of Illinois. Original application filed May 19, 1927, Serial No. 192,609, now Patent No. 1,711,112, dated Apr. 30, 1929. Divided and this application filed Jan. 9, 1929. Serial No. 331,250. 3 Claims. (Cl. 220—22.)



1. In combination with a rectangular water tank, a baffle removably mounted in said tank comprising a plurality of flat strips spaced edgewise with their ends interfittingly engaged with diagonally opposite corners of the tank, and cleats secured to and crosswise of both sides of said strips, said cleats extending beyond the lowermost strip and resting on the bottom of the tank.

1,784,827. MAGNETIC MATERIAL. GUSTAF W. ELMEN, Leonia, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed June 15, 1928. Serial No. 285,643. 5 Claims. (Cl. 175—21.)



1. A composite magnetic body having an air-gap at which free poles may exist and a magnetic material having higher permeability and lower coercivity than ordinarily prepared iron in combination with a magnetic material having higher coercivity than such iron, said materials forming parallel branches of a magnetic circuit.

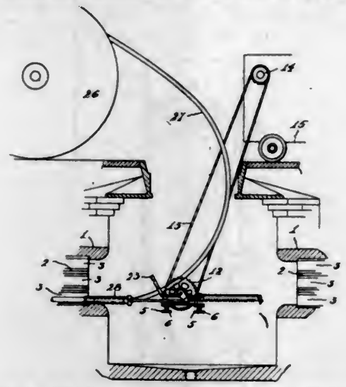
1,784,828. METHOD OF TANNING CHAMOIS, BUCKSKINS, OR OTHER LEATHER. AUGUST ERNST, Johnstown, N. Y. Filed Mar. 27, 1930. Serial No. 439,530. 11 Claims. (Cl. 149—5.)

11. A method of tanning leather such as chamois, buckskin or the like, including the steps of agitating cleaned limed skins in a bath containing formaldehyde, then adding a mixture containing soap, moellon degras, sod oil, Glauber's salt and bicarbonate of soda and further agitating said skins in said bath until tanned.

1,784,829. UNDERGROUND-CABLE-PULLING DEVICE. PETER EUFINGER, Frankfort-on-the-Main, Germany, assignor to Peter Lancier, Munster, Germany. Filed Oct. 2, 1928, Serial No. 309,806, and in Germany Mar. 23, 1928. 10 Claims. (Cl. 254—31.)

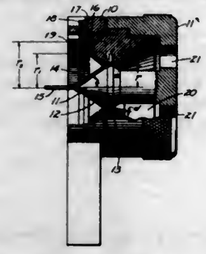
1. In a cable puller of the class described an adjustable wall engaging frame, to bridge a manhole, a transversely

shiftable bearing frame, lockably mounted thereon a shaft, revolvably supported by said bearing frame, a crank,



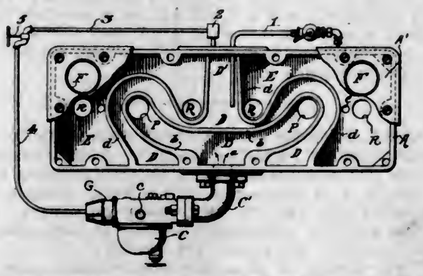
secured to said shaft, and substantially horizontally disposed means, connected to said crank, for intermittently engaging and pulling a cable at said manhole.

1,784,830. MECHANICAL IMPEDANCE DEVICE. PAUL B. FLANDERS, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 25, 1928. Serial No. 302,123. 6 Claims. (Cl. 181—0.5.)



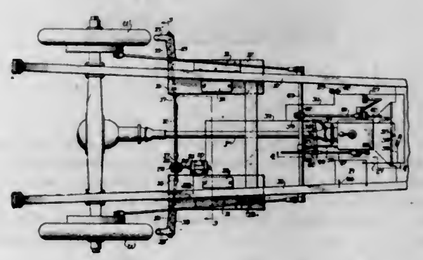
1. A mechanical resistance unit comprising a diaphragm for receiving energy from a vibratory system, an air chamber, and means defining slot through which occurs a flow of air between said chamber and the atmosphere due to vibrations of said diaphragm, said slot being narrow in a direction transverse to that of the air flow and having an appreciable length in the direction of flow, whereby it offers an impedance to the air flow which is substantially a resistance free from reactance.

1,784,831. HUMIDIFYING DEVICE FOR INTERNAL-COMBUSTION ENGINES. JOHN S. FUNALMAN, Ashland, Ohio. Filed Dec. 7, 1929. Serial No. 412,559. 1 Claim. (Cl. 123—25.)



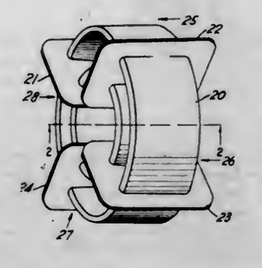
In an internal combustion engine, humidifying device comprising an outer casing divided into a plurality of chambers, and attached to an engine, one of said chambers constituting an intake manifold located at the interior of said outer casing and enclosed by thin walls, a pair of ports, one at each end of said chamber leading inwardly, a pair of chambers of similar structure constituting an exhaust manifold—and a boiler chamber intermediate said pair, and means for conveying hot water from the water jacket of the engine to said boiler chamber.

1,784,832. TRACK SANDER FOR MOTOR VEHICLES. FRANK FLORIAN, Chicago, Ill. Filed Aug. 30, 1929. Serial No. 389,365. 2 Claims. (Cl. 291—23.)



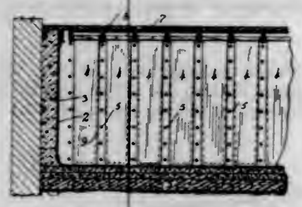
1. An improved track sander for motor vehicles of the character described and illustrated, in combination with a motor vehicle chassis, sand boxes mounted on said chassis, having discharge chutes extending outward and sloping downward to a point in front of the rear traction wheels of the motor vehicle thence downwardly and rearwardly, screw conveyors in said chutes, electric motor geared to said conveyors by means of flexible shaft and universal joints, a source of electrical current, a current line connecting said source to said motor, a normally open manually operated switch preferably mounted on the instrument board, a normally open switch adapted to be closed by either the emergency brake lever or brake pedal lever of the vehicle through which said second switch is closed when said emergency brake lever or pedal brake lever is actuated to apply the brakes, thus providing means of operating the said track sander to reduce skidding and slipping of said traction wheels when stopping said vehicle.

1,784,833. TOROIDAL INDUCTANCE DEVICE. EDWIN C. HAGEMANN, Short Hills, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 1, 1930. Serial No. 432,359. 6 Claims. (Cl. 175—359.)



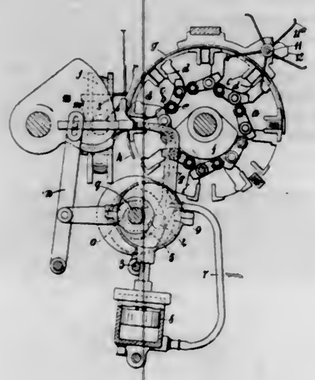
1. A new article of manufacture comprising an annular member adapted for winding a plurality of inductance devices thereon and having a plurality of spacers of nonmagnetic material formed integral with said annular member dividing the winding space on said annular member into a plurality of sections of predetermined size.

1,784,834. APPARATUS FOR MANUFACTURING ICE. FRANK HANUS, Cleveland, Ohio. Filed Jan. 17, 1929. Serial No. 333,198. 13 Claims. (Cl. 62—157.)



1. In an ice making apparatus of the type having a freezing tank within which a plurality of downwardly tapered ice molds in spaced rows are submerged in a cooling or heat absorbing medium adapted to flow between the rows of molds, means for obstructing the flow of such medium in the spaces between the rows of molds in proportion to the downward taper of the molds.

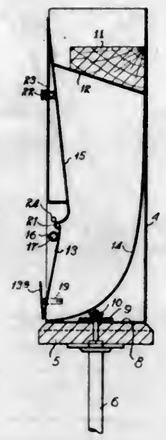
1,784,835. WRAPPING MACHINE FOR SWEETMEATS AND THE LIKE. RICHARD ANSON HARRIS, Peterborough, England, assignor to Baker Perkins, Limited, Peterborough, England. Filed Jan. 11, 1930, Serial No. 420,052, and in Great Britain Nov. 21, 1928. 9 Claims. (Cl. 93—7.)



1. A machine for wrapping caramels and like articles comprising a pocketed rotary wheel, a plunger for feeding a caramel and piece of wrapping paper into each of the pockets of the wheel in turn, and a displaceable element for positioning the pieces of wrapping paper, against which pieces of wrapping paper are retained by air pressure.

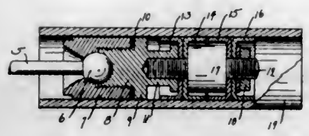
1,784,836. ENVELOPE FEEDER. EDWARD C. HESS, Pittsburgh, Pa. Filed Apr. 12, 1929. Serial No. 354,555. 5 Claims. (Cl. 312—61.)

1. In a dispensing device, the combination with a chute having a delivery opening at the lower end and in one side wall thereof, one wall of said chute curving toward the lower end of said opening, and an instrumentality in



said chute for causing horizontally placed articles in said chute to be delivered to said opening in a vertical position.

1,784,837. CONNECTING ROD AND CROSSHEAD. WILLIAM F. HIATT, Indianapolis, Ind., assignor of one-half to Henry D. Skiles, Indianapolis, Ind. Filed Jan. 6, 1930. Serial No. 418,808. 4 Claims. (Cl. 74—108.)

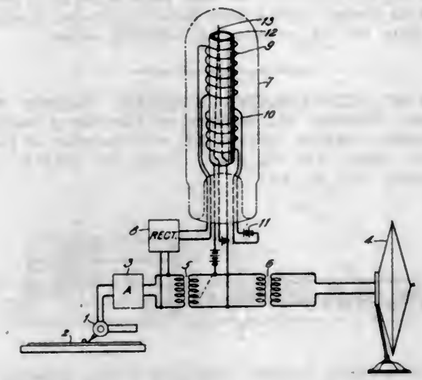


1. In a connecting rod structure, a cylinder, a cylindrical crosshead making a sliding fit in the cylinder and having a central bore therethrough, said bore being reduced at a point within the crosshead to form an annular shoulder therearound, a connecting rod having a ball end on a shank and having its shank passed through the bore of the crosshead to have the ball rest against said shoulder, a plug screw-threadedly entering said bore from the end opposite to the rod shank and having a cupped end adapted to contact with said ball, and a piston, screw-threadedly engaged to said plug comprising a threaded stud, a block, a nut screwing on the stud and cup leathers retained on the stud by the nut.

1,784,838. RUBBER COMPOSITION AND METHOD OF PRESERVING RUBBER. PAUL C. JONES, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Original application filed Jan. 21, 1929, Serial No. 334,121. Divided and this application filed Dec. 14, 1929. Serial No. 414,231. 15 Claims. (Cl. 18—50.)

1. The method of preserving rubber which comprises treating rubber witha tetra-aryl hydrazine in which at least one of the aryl groups is substituted.

1,784,839. SOUND-REPRODUCING SYSTEM. ARTHUR C. KELLER, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed June 30, 1928. Serial No. 289,516. 3 Claims. (Cl. 179—100.4.)

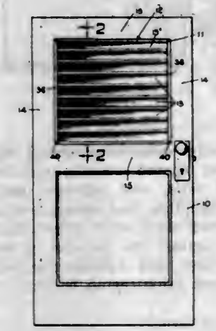


1. In a sound reproducing system, a sound record, a current reproducing device cooperating with said record, a loud speaker responsive to the currents generated by said device, a magnetron connected between said device and said loud speaker, and means for rectifying a portion of the output of said device for exciting said magnetron.

1,784,840. PROCESS FOR MANUFACTURING PORTLAND CEMENT. GUY S. LA FORGE, Union Bridge, Md. Filed July 23, 1929. Serial No. 380,462. 2 Claims. (Cl. 106—25.)

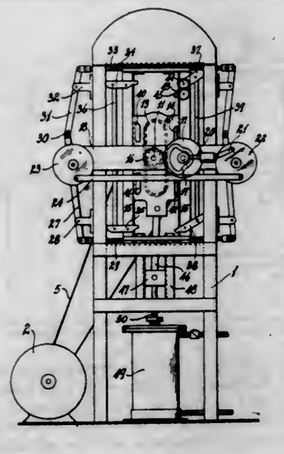
1. Those steps in the process of producing Portland cement which consists in mixing together raw calcareous material, raw argillaceous material and unground Portland cement clinker, and subjecting the mixed materials to a pulverizing operation.

1,784,841. VENTILATOR CONSTRUCTION. BERNHARD LANDAU, College Point, N. Y. Filed Dec. 5, 1928. Serial No. 323,826. 13 Claims. (Cl. 98—121.)



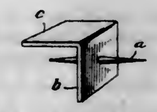
1. In a framed construction, such as a door or the like, a ventilator comprising individually formed louver members, means for maintaining the same in spaced relation to provide ventilating spaces and side members frictionally engaging said louvers for holding a plurality of such louver members in the said spaced relationship.

1,784,842. MECHANICAL MOVEMENT. GEORGE G. LEMONS, Long Beach, Calif. Filed June 25, 1929. Serial No. 373,615. 6 Claims. (Cl. 74—14.)



1. In a mechanical movement comprising a frame, a drive shaft journaled in the frame, drive means connected to said drive shaft, a pinion on the drive shaft, a head, an internal elongated gear in the head, said pinion being meshed with said internal gear, a pair of wheels mounted on the frame, a pitman connecting said wheels, means on the frame connected in timed relation to said drive shaft and to said wheels whereby said wheels are rocked, guide-ways in which said head is slidably mounted, said guide-ways being slidably mounted in said frame, plungers extending from said guide-ways at the top and bottom thereof, and links connecting said plungers and said wheels whereby the guide-ways are moved from side to side in the frame.

1,784,843. DOUBLE-PIN HOLDFAST. ALBERT LÖSCH, Hamburg, Germany. Filed Apr. 23, 1930, Serial No. 446,565, and in Germany Apr. 26, 1929. 2 Claims. (Cl. 85—14.)

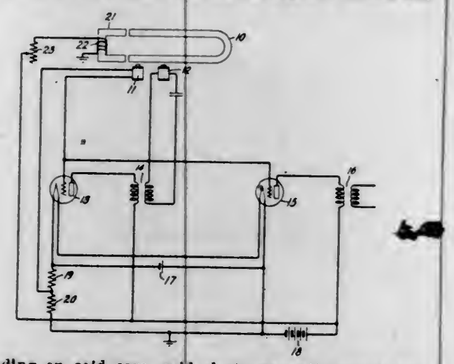


2. A double pin holdfast for connecting together wood parts, particularly for toys and models of all kinds, comprising an angular member of metal and a double ended pin secured at the middle in the centre of one of the limbs of the angular member, the arrangement being such that the other limb of the angular member forms a guide for the double pin by bearing firmly against one of the sides of one of the members to be connected together by the double pin.

1,784,844. CONSTANT FREQUENCY WAVE SOURCE. WARREN A. MARRISON, Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 18, 1927. Serial No. 226,831. 7 Claims. (Cl. 84—409.)

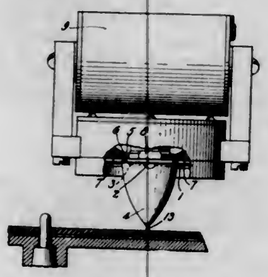
4. A source of constant frequency waves comprising a tuning fork, an amplifier, a source of potential for energizing said amplifier, a control element for producing

an electromotive force of frequency proportional to the rate of vibration of said fork connected to the input of said amplifier, means for driving said fork connected to the output of said amplifier, electromagnetic means comprising a core forming with said fork a magnetic circuit and



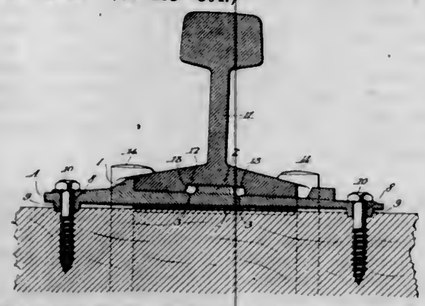
a winding on said core, said electromagnetic means acting to control the effective stiffness of said fork, and connections from said source to said winding to maintain the frequency of vibration of said fork substantially constant irrespective of variations of the potential of said source.

1,784,845. PHONOGRAPH NEEDLE. LOUIS A. MORRISON, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 4, 1928. Serial No. 310,259. 5 Claims. (Cl. 274—38.)



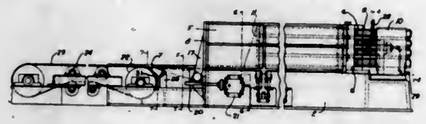
3. In an electrical pick-up device a moving system including a wooden needle of large base diameter coated with metal and attached to a diaphragm.

1,784,846. ANTICREEPING RAIL AND COOPERATING TIE PLATE FOR RAILWAYS. AXEL M. PETERSON, Denver, Colo. Filed Jan. 20, 1930. Serial No. 422,025. 2 Claims. (Cl. 238—304.)



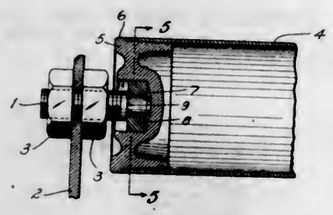
2. A railway tie plate having an abutment rib near one end from which point the plate diminishes in thickness toward the opposite end, a central row of projecting teeth at right angles to said rib; spike receiving holes, one pair of said holes being cut through said rib, a boss being formed between the other two holes which is of greater height than said teeth; a pair of ribs on the under side of the plate which extend at right angles to the said abutment rib, and bosses on the under sides of the plate near the ends thereof, having holes therethrough and through the plate for the reception of retaining screws.

1,784,847. TILE-FORMING MACHINE. HERBERT W. REEL, Hinsdale, Ill., assignor to The United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 25, 1929. Serial No. 349,914. 7 Claims. (Cl. 25—42.)



7. A moulding machine comprising a base supporting two spaced apart parallel fixed mould bottoms, a central division plate mounted to travel longitudinally therebetween, fixed core poles carried upon the base arranged parallel to each bottom extending into each mould, exterior sides for each mould hinged to the outer sides of the base, a common closure for the same ends of both moulds carried on the division plate having apertures for receiving the core poles, hinged closures for the other ends of each mould, a cylinder within the division plate, a piston rod entering therein having a piston head mounted upon its inner extremity and its outer extremity fixed to the base at the end with the core poles.

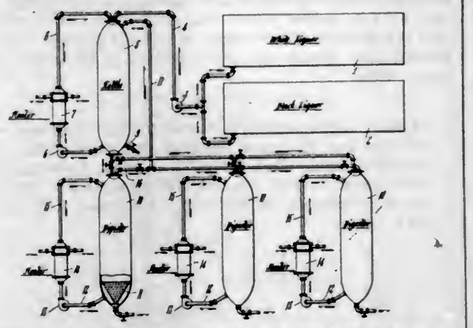
1,784,848. BEARING FOR CONVEYER ROLLERS. CARL J. REICHLE, Detroit, Mich., assignor to Alvey Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 9, 1927. Serial No. 232,019. 4 Claims. (Cl. 308—20.)



4. A roller conveyer comprising spaced supporting rails, oppositely disposed spaced bearing spindles adjustably mounted on said rails, and conveyer rollers rotatably mounted on said spindles, said rollers comprising a tubular body having end plugs with non-circular recesses in their outer faces against the bottoms of which the ends of said spindles bear, and non-circular bushings fitting in said recesses and constituting bearings for said spindles.

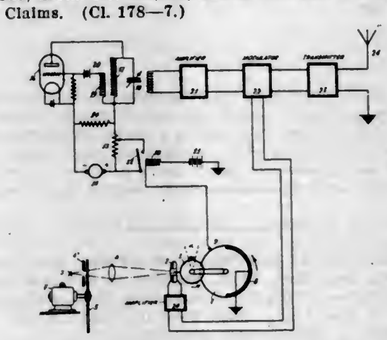
1,784,849. PULPMAKING AND APPARATUS THEREFOR. GEORGE A. RICHTER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Sept. 18, 1928. Serial No. 306,739. 3 Claims. (Cl. 92—7.)

1. A process of pulping raw cellulosic material, which comprises heating a confined pool of cooking liquor to high temperature and pressure conditions, adding such liquor to confined raw cellulosic material while displacing the air in said latter and causing it to escape into and displace



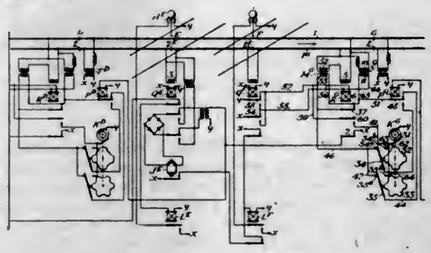
liquor in said pool, and cooking the confined charge of liquor and cellulosic material until pulping has been effected.

1,784,850. PICTURE TRANSMISSION. FRITZ SCHRÖTER, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Filed Feb. 23, 1929, Serial No. 342,059, and in Germany Mar. 3, 1928. 6 Claims. (Cl. 178—7.)



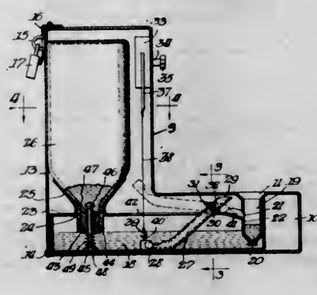
1. In a picture transmission system, means for scanning and analyzing a picture for transmission, means for modulating a transmitted wave in accordance with the point for point intensities of light and shade on the transmitted picture, and means for continually changing the frequency of the transmitted carrier at the period between any two successive line for line scannings of said picture.

1,784,851. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. HOWARD A. THOMPSON, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Nov. 5, 1927. Serial No. 231,277. 12 Claims. (Cl. 246—34.)



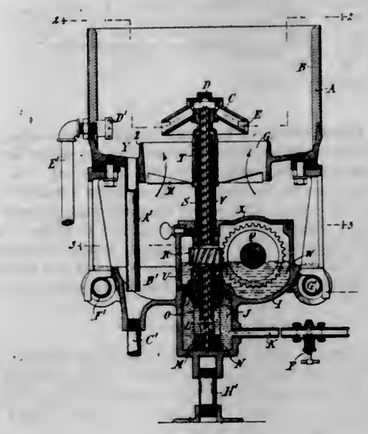
1. In combination, a section of railway track, a highway crossing said section, a source of energy connected across the rails adjacent the entrance end of the section, an insulated joint in one rail adjacent said highway crossing, a winding connected across said joint, and a highway crossing signal located adjacent said crossing and controlled by said winding.

1,784,852. LIQUID-DISPENSING APPARATUS. LORENZO D. THOMPSON, Chicago, Ill., assignor to The F-N Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 1, 1922. Serial No. 604,184. 10 Claims. (Cl. 120—57.)



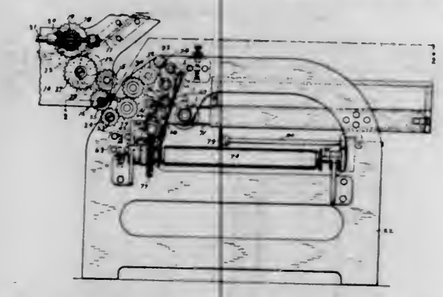
1. An apparatus for use in filling fountain pens comprising a cabinet, a well associated with the cabinet, said well being of a shape and size to receive and fit the pen end of a fountain pen whereby to cause the fountain pen to withdraw substantially all of the ink from the well when filled from the well, a reservoir within the cabinet and means for transferring a measured quantity of ink from said reservoir to said well.

1,784,853. OIL-BURNING APPARATUS. HOMER ANDREW TIFFANY, Clifton, N. J. Filed Nov. 5, 1923. Serial No. 672,890. 5 Claims. (Cl. 158—77.)



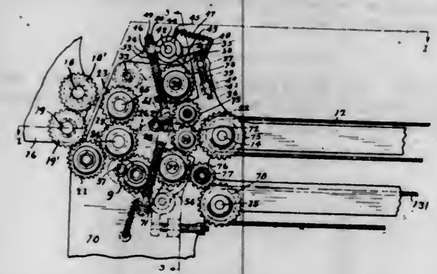
5. In combination, a receiving and discharging member, an open-ended tube fixedly secured to said member, means for rotatably supporting said member and tube in a substantially vertical position, a screw conveyor, fixed against rotation, extending along the interior of said tube toward said member, and means to rotate said tube and member.

1,784,854. PAPER DEFLECTOR. LESLEY R. TUFTS, East Cleveland, and ANDREW OLSON, Cleveland, Ohio, assignors to The Cleveland Folding Machine Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 16, 1928. Serial No. 293,278. 17 Claims. Cl. 271—64.)



1. In a paper handling machine, two pairs of feed rolls, each pair adapted to direct sheets into a separate course, a deflector arranged in front of said pairs, and means associated with each of said pairs and adapted to be set in motion by the travel of a sheet therethrough for moving said deflector to direct a succeeding sheet into the other pair.

1,784,855. SHEET DEFLECTOR. LESLEY R. TUFTS, and ANDREW OLSON, Cleveland, Ohio, assignors to The Cleveland Folding Machine Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 23 1928. Serial No. 321,321. 8 Claims. Cl. 271—64.)



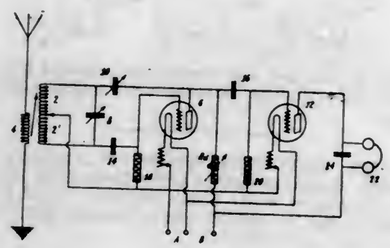
1. In a paper handling machine, means for causing the sheets to travel single file in a given path, a deflector for directing sheets from said path into either of two different courses, a shoe in each of said courses adapted to be shifted by the travel of a sheet therethrough, means associated with each shoe for shifting the deflector when the shoe is shifted, and independent means associated with each of said shoes for returning it to normal position when not in engagement with a sheet traveling through that course.

1,784,856. AXLE FOR SELF-PROPELLED VEHICLES. BERTIS H. URSCHEL, Bowling Green, Ohio, assignor to Urschel Engineering Company, Bowling Green, Ohio, a Corporation of Ohio. Filed Mar. 7, 1928. Serial No. 259,796. 4 Claims. (Cl. 301—124.)



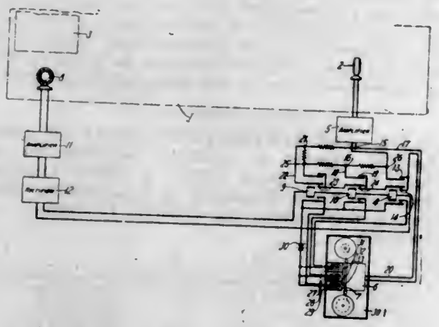
1. An axle for a vehicle comprising a tube, the end portions of the tube formed rectangular in shape, the upper and lower side walls of each end portion having openings for receiving a bearing member, the axle having cuts along the corners of the rectangular formed portions, the portions of the remaining side walls located between the cuts bent to extend across the ends of the axle and so that the upper and lower edges of the said portions will lie substantially within end edge portions of the upper and lower sides.

1,784,857. ELECTRON-TUBE CIRCUITS. MANFRED VON ARDENNE and HEINRICH HEINERT, Berlin, Germany, assignors to Radio Corporation of America, a Corporation of Delaware. Filed Nov. 13, 1926, Serial No. 148,166, and in Germany Aug. 25, 1925. 3 Claims. (Cl. 179—171.)



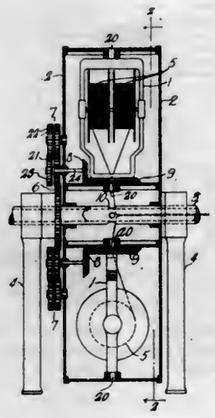
3. A regenerative receiver comprising an electron emission tube, anode and control electrode circuits including regeneratively coupled inductances, a tuning condenser, and a series combination of a substantially pure ohmic resistance and a source of direct anode potential connected in parallel with the regeneratively coupled anode inductance.

1,784,858. SOUND-RECORDING SYSTEM. EDWARD C. WENTE, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 10, 1928. Serial No. 253,253. 2 Claims. (Cl. 179—100.3.)



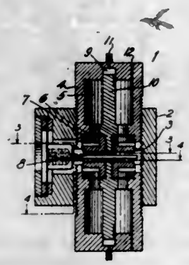
1. In a sound recording system, a recording surface, a source of sounds to be recorded, a pick-up device at a distance from the source for translating the sounds into corresponding electric currents, a recording circuit, and monitoring means responsive to the sounds for varying the gain in the recording circuit automatically in anticipation of changes in the amplitude of the currents from the pick-up device and for marking the recording surface at intervals only in accordance with the gain variations.

1,784,859. TWISTING MACHINE. WILLIAM K. WESTON, Sanderstead, England, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 8, 1928, Serial No. 298,250, and in Great Britain Aug. 22, 1927. 5 Claims. (Cl. 117—20.)



1. In a wire twisting machine individually rotatable yokes, bobbins for the wires mounted in said yokes and means for revolving said yokes about a central common axis, the axes of rotation of said yokes being at an angle with said common axis so that the deleterious effect of centrifugal forces due to the latter revolutional movement is substantially removed said angle being about 85°.

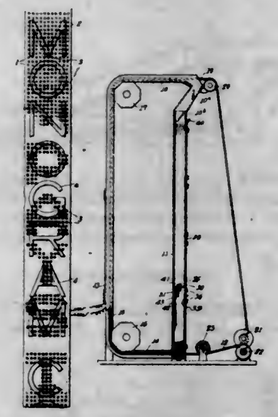
1,784,860. SOUND RECORDER. CHARLES F. WIEBUSCH, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 25, 1928. Serial No. 302,083. 4 Claims. (Cl. 181—0.5.)



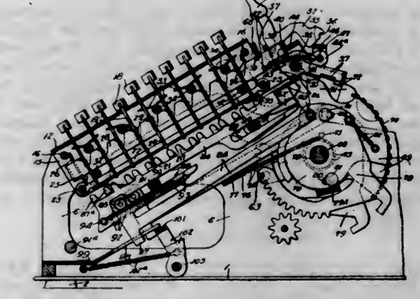
3. In a mechanical vibration damping device, a casing, a pair of spaced plates, a member adapted to oscillate between the plates, viscous matter in said casing to impede the oscillations of said member and means responsive to temperature changes for varying the spacing of said plates.

1,784,861. ELECTRIC SIGN. FRANCIS E. J. WILDE, Meadowmere Park, N. Y. Filed Sept. 4, 1926. Serial No. 133,676. 1 Claim. (Cl. 177—350.)

In a "talking" sign, a panel of traveling-letter-forming lamps, means carried by said panel for forming stationary letters visible independently of the traveling letters and means for flashing the lamps to effect traveling of design characters over the panel, the stationary letter-forming means comprising appropriately shaped neon tubes supported on the panel in the same field but clear of the traveling letter-forming lamps.

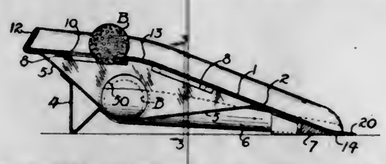


1,784,862. ADDING MACHINE. GLENN J. BARRETT, Evanston, Ill., assignor to Portable Adding Machine Company, Chicago, Ill., a Corporation of Illinois. Original application filed Aug. 14, 1925, Serial No. 50,219. Divided and this application filed July 26, 1927. Serial No. 208,578. 7 Claims. (Cl. 235—60.)



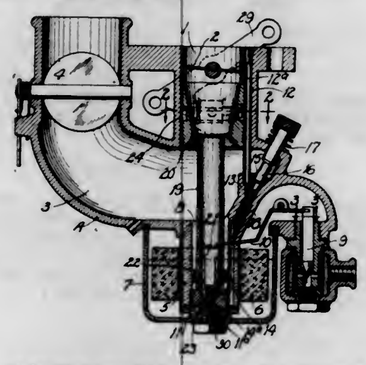
1. In a key-set adding machine, a keyboard comprising a row of keys; a zero key in said row; key stems formed with stop fingers; a depressed-key latch strip associated with said row of keys; a detent dog pivoted at the rear end of the latch strip and normally preventing movement of the associated adding sector and type segment; a spring yieldingly holding said detent dog in engagement with the latch strip, and said strip normally holding the said detent dog in operative position to prevent movement of the adding sector and type segment and permitting said dog to rise above the adding sector and type segment stop when the latch strip is moved forwardly; a stop slide connected to the adding sector; means whereby when the zero key is depressed the latch strip is moved forward to release the detent dog, and the stop slide and its connected adding sector is held against movement, the associated type segment being released from the detent dog; and means to permit the released type segment to move a single type space to place the zero type in printing position without movement of the adding sector.

1,784,863. INDOOR PORTABLE PRACTICE PUTTING GREEN. HERBERT R. BUSSE, Seattle, Wash. Filed Dec. 19, 1927. Serial No. 241,005. 4 Claims. (Cl. 273—36.)



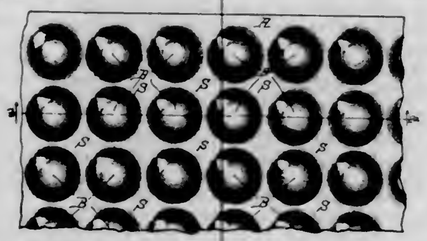
1. A portable practice green comprising a sheet defining an apertured surface inclined upwardly and rearwardly from a forward floor-engaging edge, said forward edge being weighted to prevent displacement when struck by a ball.

1,784,864. CARBURETOR. WILLIAM C. CARTER, Flint, Mich. Filed July 15, 1927. Serial No. 206,028. 6 Claims. (Cl. 261—41.)



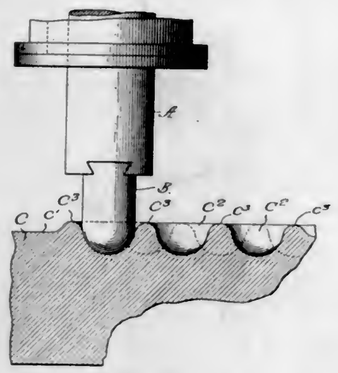
1. A carburetor provided with a main mixture passageway, a throttle valve, an accelerating well for holding fuel, a fuel duct leading from the lower end of said well for introducing fuel into said main mixture passageway when the throttle valve is closed or only partly open, the inlet of said fuel duct being formed in the side wall of said well, and a horizontally-disposed partition member arranged parallel to and in closely spaced relation with the bottom of said well, above the inlet end of said duct, for preventing the liquid fuel in said well from surging laterally away from the inlet end of said duct under certain conditions.

1,784,865. METHOD OF STRAIN HARDENING MANGANESE STEEL. FRANK A. FAHRENWALD, Chicago, Ill., assignor to American Manganese Steel Company, Chicago Heights, Ill., a Corporation of Maine. Filed Dec. 13, 1926. Serial No. 154,645. 3 Claims. (Cl. 148—12.)



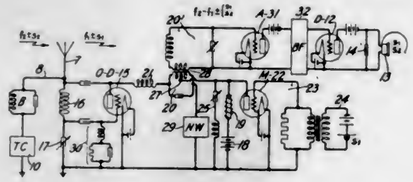
1. The process of strain hardening manganese steel, characterized by forming upon a surface of the steel, spaced, conchoidal elevations, and after heat treatment of the steel, and while the steel is cool, depressing these elevations into the body of the casting.

1,784,866. METHOD OF STRAIN-HARDENING STEEL. FRANK A. FAHRENWALD, Chicago, Ill., assignor to American Manganese Steel Company, Chicago, Ill., a Corporation of Maine. Filed Mar. 24, 1927. Serial No. 177,878. 2 Claims. (Cl. 148—12.)



1. The process of producing work hardened manganese steel castings, characterized by the step of pressing into the heat treated casting, while the casting is cool, and at spaced intervals, a tool with a rounded end.

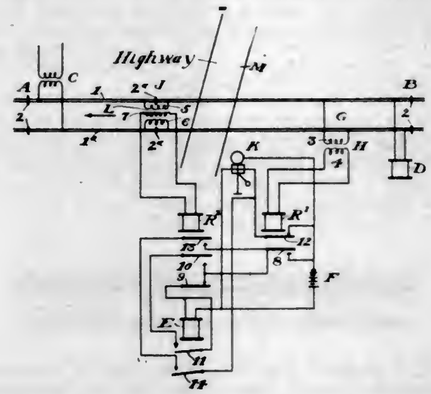
1,784,867. SIGNALING SYSTEM. JOHN F. FARRINGTON, Flushing, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Original application filed July 31, 1923, Serial No. 654,823, Patent No. 1,724,917, dated Aug. 20, 1929. Divided and this application filed June 13, 1927. Serial No. 198,443. 10 Claims. (Cl. 250—9.)



10. A combination for two-way signaling comprising a transmission means, an oscillator-modulator circuit, a source of signal currents and a receiver circuit both of which are associated with said transmission means through said oscillator-modulator circuit; and balancing currents from affecting said receiver circuit.

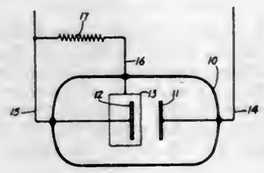
1,784,868. APPARATUS FOR THE CONTROL OF HIGHWAY-CROSSING SIGNALS. ROBERT M. GILSON, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed July 29, 1926, Serial No. 125,761. Renewed Mar. 20, 1930. 14 Claims. (Cl. 246—130.)

9. In combination, a section of railway track provided with an insulated joint in at least one track rail, a source of alternating track circuit current connected across the rails of said section, a transformer the primary of which is connected in series with said one rail to conduct current around said insulated joint, a relay connected with the



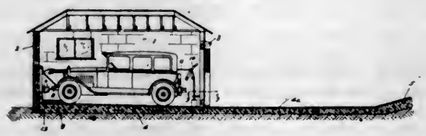
secondary of said transformer, a highway intersecting said track, and a highway crossing signal for said intersection controlled in part by said relay.

1,784,869. RECTIFIER. FRANK GRAY, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 31, 1926. Serial No. 98,658. 4 Claims. (Cl. 250—27.5.)



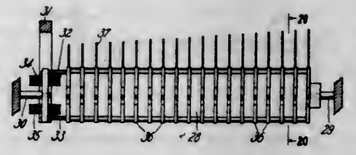
1. A discharge device comprising a containing vessel, a filling of inert gas therein, a pair of opposed disc shaped cold main electrodes comprising an anode and a cathode, a perforated cup-shaped cold electrode interposed between said main electrodes and having a surface parallel with and surrounding the periphery of one of said electrodes, and a high resistance connection between said perforated electrode and one of said main electrodes.

1,784,870. ART OF GARAGE CONSTRUCTION. WESLEY R. HALL, Cincinnati, Ohio. Filed Jan. 23, 1930. Serial No. 422,887. 4 Claims. (Cl. 20—1.13.)



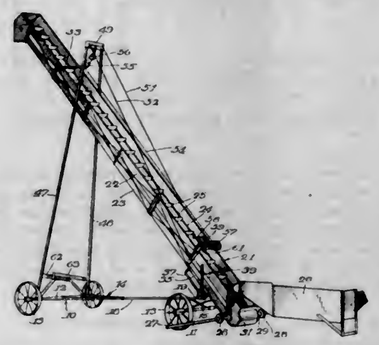
1. In the art of garage construction, the provision of a supporting surface so inclined that the car, without brakes, will gently roll back over same, the provision of a locking device for holding the car to prevent its backward movement, a releasing device for said locking device located adjacent the car door, and an inclined surface located exteriorally of the car for blocking the movement of the car after its movement from the garage.

1,784,871. MECHANICAL TRANSMISSION SYSTEM. HENRY C. HARRISON, Port Washington, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 22, 1926. Serial No. 110,879. 6 Claims. (Cl. 181—0.5.)



4. A device for measuring frequencies within a given range comprising a plurality of elements, each selectively responsive to a definite frequency within said range, means responsive to wave motion for actuating said elements, and means for coupling said elements to said responsive means comprising a plurality of uniform mass elements and uniform elastic elements coupling said mass elements serially, the ratio of the elasticity of said elastic coupling leements to the values of said masses being large enough to permit the transmission through the coupling means of all frequencies in the given range.

1,784,872. PORTABLE GRAIN ELEVATOR. EDWARD HARTMAN, Sandwich, Ill., assignor to Sandwich Manufacturing Co., a Corporation of Illinois. Filed Aug. 21, 1926. Serial No. 130,759. 2 Claims. (Cl. 198—233.)

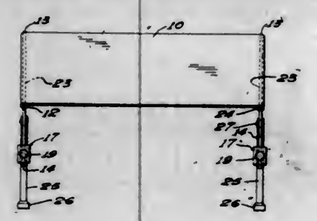


1. In combination, a truck comprising front and rear axle assemblies, a bolster member, a coupling member secured to said rear axle assembly, means for pivotally connecting the forward end of said coupling member to said front axle assembly, means for pivotally mounting said bolster member on said front axle assembly, a shaft journaled in said bolster, a pair of pinions on said shaft, an elevator, a rack bar secured to each side of said elevator adjacent to the front end thereof for engaging said pinions for slidably adjusting said elevator longitudinally, keepers for holding said pinions in engagement with the rack, a lever pivoted to said shaft, a toothed wheel for rotating the same, a pawl and ratchet for holding said shaft in adjusted position, and means for raising and lowering the rear end of said elevator.

1,784,873. COPYHOLDER. JAMES BUNDY HAYWOOD, Hopewell, Va. Filed Apr. 20, 1927. Serial No. 185,185. 4 Claims. (Cl. 197—143.)

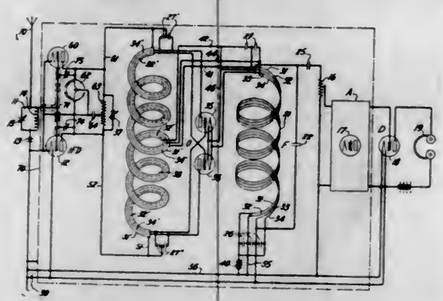
1. In a device of the character described, a manuscript support presenting a continuously flat surface

throughout its entire length and breadth, legs hingedly secured to said support and foldable flat thereagainst, certain of said legs being provided with means slidable



thereon for adjustably attaching them to a typewriter for bringing the adjacent edge of the support into position to receive a manuscript from the platen.

1,784,874. CONTROL OF WAVE TRANSMISSION. FRANK A. HUBBARD, Islip, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed May 26, 1926. Serial No. 111,730. 11 Claims. (Cl. 250—20.)



1. A vacuum tube translating device having input and output circuits, and means for coupling said circuits to each other, said means comprising an oscillator including two electric space discharge devices connected in push-pull relation, said means also including a variable condenser effectively connected across the plate and filament of said vacum tube translating device.

1,784,875. ROCKING-HORSE. ADOLPH J. JESSWEIN, Kenosha, Wis. Filed Aug. 3, 1928. Serial No. 297,137. 5 Claims. (Cl. 298—42.)



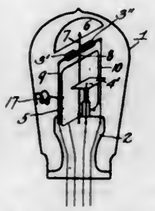
1. The combination with a wheeled frame, of a seat member pivotally associated with said frame intermediate the extremities thereof, a crank shaft constituting a whel support for said frame, a connecting rod secured to said seat member rearwardly of its pivotal support, an operative connection between said connecting rod and crank shaft to impart movement to said frame responsive to the oscillation of said seat member, steering means for said wheeled frame, pivotal levers connected to said steering means, a bar between said levers to insure corresponding steering movement therein, and resilient means anchored to said bar for operative connection with said steering means to normally guide said wheeled frame in a rectilinear path.

1,784,876. COMBINED FLOOR AND CEILING CONSTRUCTION. HERBERT E. MARKS, Sewickley, Pa., assignor to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 10, 1925. Serial No. 61,736. 5 Claims. (Cl. 72—71.)



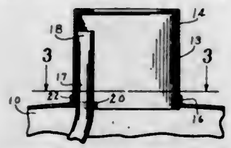
1. A combined floor and ceiling structure comprising spaced floor beams, combined floor-form and ceiling-supporting members resting independently of each other upon ten tops of and extending transversely of the floor beams and spaced at uniform intervals, floor-form plates supported by said members, a monolithic floor formed on said plates, hangers separately engaging and independently extending downwardly from said uniformly spaced members and arranged at a plurality of intervals between said floor beams, and pre-formed cementitious fire-proofing ceiling slabs of uniform width attached at their ends directly to said hangers and lying in a plane below the lower edges of said floor beams.

1,784,877. GAS-FILLED DISCHARGE DEVICE. FRIEDRICH MEYER and HANS JOACHIM SPANNER, Berlin Halensee, Germany, assignors, by mesne assignments, to Electrons, Inc., a Corporation of Delaware. Filed Aug. 19, 1927, Serial No. 214,192, and in Germany for a part Aug. 20, 1926, and for a part Oct. 15, 1926, and for another part Nov. 15, 1926. 13 Claims. (Cl. 250—27.5.)



1. An electric discharge tube containing a gas, a plurality of anodes, a barrier interposed between said anodes, said barrier being spaced a distance from said anodes comparable to the mean free distance of said gas and a solid thermionic cathode interposed between said anodes.

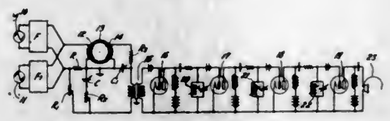
1,784,878. ENGINE-COOLING RADIATOR. CHARLES OPPE, New Haven, Conn., assignor to The G & O Manufacturing Company, New Haven, Conn. Filed July 21, 1926. Serial No. 124,052. 10 Claims. (Cl. 220—24.)



5. A radiator for internal combustion engines, having a tank provided with an opening in the upper side there-

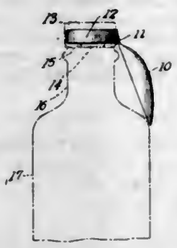
of, and a filler neck secured to the tank within said opening, a vent tube having its upper end extended within the filler neck and adjacent the wall thereof, and means formed integrally with the filler neck and embracing the vent tube to hold it snugly against the wall of the filler neck.

1,784,879. MAGNETIC MODULATOR CIRCUIT. EUGENE PETERSON, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed May 22, 1926. Serial No. 110,876. 10 Claims. (Cl. 179—171.)



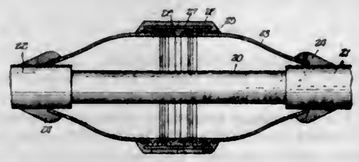
1. A transmission system comprising a source of currents having one or more frequencies in a definite range, a source of currents having a frequency outside of said range, a magnetic device, and means for applying currents from said sources to said device, the impedances of said first source and of said device being matched so as to cause approximately the maximum transfer of energy therebetween when currents from said second source are supplied to said device.

1,784,880. COMBINED SPOON AND CLIP. FERDINAND PHILLIPSON, New York, N. Y. Filed May 24, 1929. Serial No. 365,652. 1 Claim. (Cl. 215—100.)



A medicine spoon or the like, having a bowl portion to which is fixed an expansible, spring clip member, the clip being open-ended whereby it may be snapped into and out of engagement with bottle necks of various sizes, the bowl portion extending at nearly a right angle to the plane of the clip, whereby the bowl portion will lie close to the neck of the bottle when in engagement therewith, and so be out of the way, the clip serving as a handle for the spoon when out of engagement with the bottle, the entire article being stamped out of sheet metal.

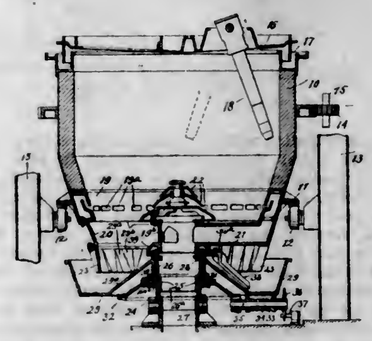
1,784,881. INSULATING JOINT. JOSEPH RAH, Chicago, Ill., assignor to G and W Electric Specialty Company, Chicago, Ill., a Corporation of Illinois. Filed May 31, 1927. Serial No. 195,359. 3 Claims. (Cl. 173—268.)



1. In a device of the character described, the combination of a sheathed cable having an interruption in the sheathing, and an insulation containing means for bridging said interruption, said means comprising a plurality of metallic members positioned in and spaced by a plurality of condensers.

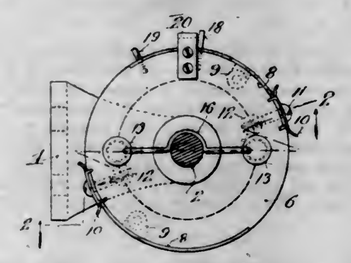
2. In a device of the character described, the combination with a sheathed cable having a gap in said sheathing, a sleeve for bridging said gap, said sleeve comprising spaced metallic members associated with said sheathing, insulation disposed between and joining the edges of said members, and a plurality of metallic members disposed between and insulated from the edges of said first mentioned members.

1,784,882. GAS PRODUCER. JOHN F. ROGERS, Cleveland Heights, Ohio, assignor to The Wellman Engineering Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 2, 1930. Serial No. 421,221. 12 Claims. (Cl. 48—85.1.)



2. In a gas producer, a rotatable producer body, means for rotatably supporting the latter, means for rotating said body, a member coaxial with the lower portion of the producer body, independent means for rotatably supporting said member, means connecting said member to the producer body to be rotated thereby, an ash-pan mounted on said member, said ash-pan being normally rotatable with said member but so mounted on said member as to be capable of rotative movement relative thereto, and means acting automatically and at intervals on said ash-pan to impart turning movements thereto relative to said member and producer body.

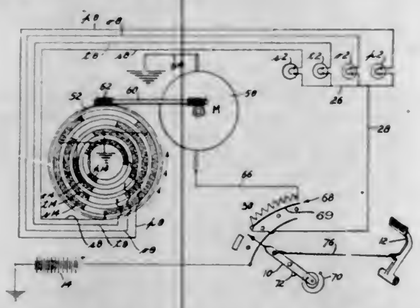
1,784,883. COMPENSATING SWITCH. HAROLD ROWNTREE, Scarsdale, N. Y., assignor to National Pneumatic Company, New York, N. Y., a Corporation of West Virginia. Filed May 15, 1926. Serial No. 109,225. 7 Claims. (Cl. 200—164.)



1. In a switch the combination with an operating shaft of a switch comprising a fixed member having a plurality of contacts thereon, a movable member adapted to rotate on said shaft having shoes to cooperate with said contacts and means operated by the shaft for moving the

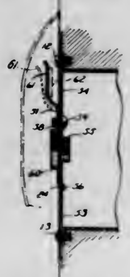
movable member with respect to the fixed member the contacts and shoes being arranged so that contact is made between them and immediately upon rotation of the shaft in one direction.

1,784,884. VEHICLE STOP SIGNAL. HARRY M. SMITH, Alameda, Calif. Filed Dec. 9, 1926. Serial No. 153,514. 4 Claims. (Cl. 177—339.)



1. In combination with a vehicle having a brake lever, an electric signal circuit, switch means in said signal circuit for periodically closing the same, a normally open motor circuit, a motor in said motor circuit operative to actuate said switch means, a rheostat in said motor circuit for varying the resistance thereof, and a second switch in said signal circuit operable upon an actuation of said brake lever to close said signal circuit thereat and to simultaneously cooperate with said rheostat for closing the motor circuit therethrough in such manner that an increased degree of brake lever displacement is arranged to effect an increased frequency of closing of said first switch means.

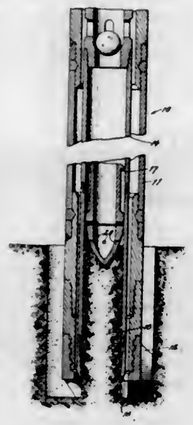
1,784,885. LIGHTING-FIXTURE SUPPORT. ISIDORE WOLARSKY, Mount Vernon, N. Y. Filed Oct. 25, 1926. Serial No. 143,810. 13 Claims. (Cl. 240—85.)



1. A device for supporting lighting fixtures from electrical outlet fittings, said device comprising a strap having screw receiving openings to support the strap on outlet boxes of various sizes and styles, a laterally drawn tubular extension internally threaded and adapted to receive a threaded stud, a second strap removably carried by the first strap, and a tubular member extending laterally outwardly and connected to said second strap, said member having a larger diameter than the said extension.

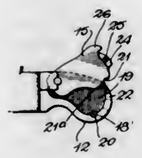
1,784,886. SCREEN PLUG FOR CORE BARRELS. REUBEN C. BAKER, Coalinga, Calif., assignor to Baker Oil Tools, Inc., a Corporation of California. Filed Dec. 24, 1927. Serial No. 242,363. 3 Claims. (Cl. 255—72.)

1. In combination with a core barrel, of a hollow plug adapted to fit within the lower end thereof to close the same, said plug being of a diameter whereby it may travel upwardly into the core barrel when released therefrom, said plug having a plurality of restricted openings formed therein to permit the passage of fluid therethrough, means on the plug engaging the core retainer in the core barrel to support the plug, means carried by the plug



engaging the lower end of the core barrel to prevent the passage of the plug upwardly into the core barrel, said last-named means being fragile whereby it may be disrupted when the core barrel has reached the point of operation in a well so that the plug may be released from the core barrel and travel upwardly therein to permit the entry of a core.

1,784,887. WRIST-WATCH ATTACHMENT. ROBERT F. CAMPBELL, Brooklyn, N. Y. Filed Oct. 17, 1929. Serial No. 400,220. 9 Claims. (Cl. 24—265.)

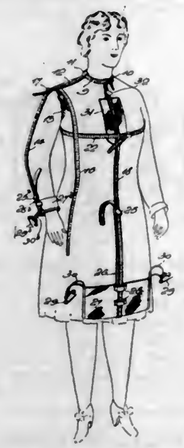


1. A bar supporting lug of the class described comprising a main lug part, a comparatively large recess formed on one side face of said part, a latch part movably supported in said recess, means for supporting one end of a bar within and between the parts of said lug, and means for retaining the latch part against accidental displacement when in closed position.

1,784,888. MEASURING HARNESS. MARIE G. COUTURE, Concord, N. H. Filed Mar. 8, 1929. Serial No. 345,573. 9 Claims. (Cl. 32—2.)

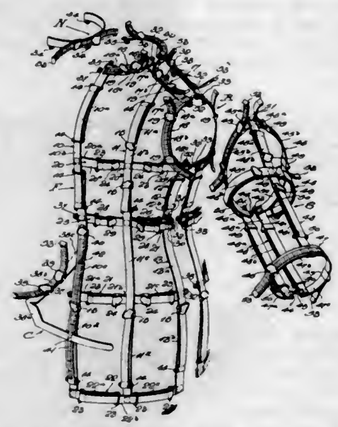
1. In a measuring harness, a pendent measuring strap for a garment portion, and a horizontally elongated flexible sheet connected with the lower portion of said strap to give the effect of any suggested length of said garment portion, said sheet projecting extensively from said strap and having free ends, pins at said ends for temporarily

pinning them at different positions until the desired effect is attained, and flexible ties carrying said pins and connected permanently to said sheet.



7. In a measuring harness, a front dress length strap and a sheet disposed against the upper portion of said strap and connected therewith for vertical adjustment to give the effect of various suggested depths of neck, said sheet being of a width much greater than the strap and projecting oppositely from the latter.

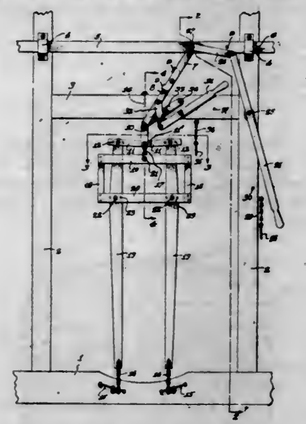
1,784,889. PATTERN-CUTTING HARNESS. MARIE G. COUTURE, Concord, N. H. Filed Mar. 8, 1929. Serial No. 345,575. 10 Claims. (Cl. 33—15.)



6. In an adjustable pattern cutting harness, a horizontal strap having a bifurcated end at least one furcation of which is extensible, and upper and lower vertical straps connected with the furcations of said bifurcated end, respectively.

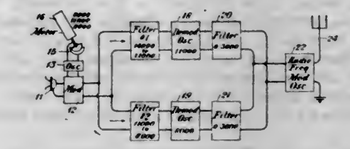
1,784,890. CATTLE STANCHION. WILLIAM E. CURRIE, Lake Jovita, Fla., and PETER DE VRIES, Detroit, Mich.; said Peter de Vries assignor to William E. Currie. Filed Sept. 28, 1928. Serial No. 308,982. 4 Claims. (Cl. 119—148.)

1. A stanchion comprising a frame, a bar slidably supported by said frame, a link suspended from said frame, a pair of neck bars suspended from said link and adapted to be operated thereby, a loose frame suspended from said first named frame having the neck bars pivoted thereto, a



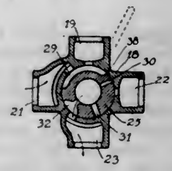
connection between said slidable bar and link for operating the latter and the neck bars, means for sliding said slidable bar, and means independent of said slidable bar for operating said link.

1,784,891. PRIVACY SIGNALING SYSTEM. SAMUEL W. DEAN, Brooklyn, and CLIFFORD N. ANDERSON, New York, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Nov. 1, 1929. Serial No. 404,138. 9 Claims. (Cl. 179—1.)



4. In a secrecy communicating system, a source of speech signal, means for modulating the signal against a varying carrier frequency, a path for transmitting the upper portion of one of the side bands, a second parallel path for transmitting the lower portion of the same side band, and means in each path for demodulating to the original frequency range with the two portions adjacent but transposed and continually varying.

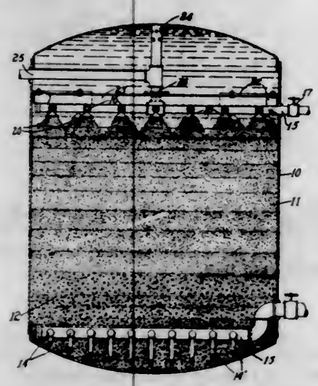
1,784,892. FLUID-TREATING APPARATUS. EMIL G. DUDEN, Oakmont, Pa., assignor to Wm. B. Scaife & Sons Co., a Corporation of Pennsylvania. Filed Apr. 30, 1927. Serial No. 187,768. 2 Claims. (Cl. 251—104.)



1. A five way valve comprising a valve casing having four circumferentially spaced ports and an intermediate port, all for the passage of liquid, a valve plug operable within said casing having an intermediate passage formed therein and so located as to register with said intermediate port in all positions of the plug, and having three pas-

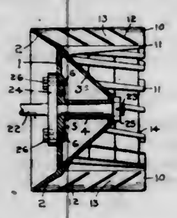
sages communicating with said intermediate passage and adapted to establish communication between said intermediate passage and one or two of said circumferential ports for different positions of the plug, and having a peripheral groove formed therein for successively establishing communication between any two adjacent circumferentially spaced ports as said plug is turned to one of four different positions.

1,784,893. WATER-TREATING APPARATUS. EMIL G. DUDEN, Oakmont, Pa., assignor to Wm. B. Scaife & Sons Company, a Corporation of Pennsylvania. Filed Aug. 29, 1928. Serial No. 302,661. 2 Claims. (Cl. 210—24.)



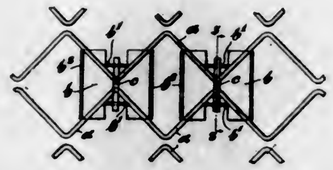
1. A water softening apparatus including a casing provided with a bed of water softening material, means for causing water to be softened to flow upwardly through said bed, vertically disposed offtakes for softened water located beneath the surface of said bed so as to cause said water flow to form areas of compression in said bed to prevent the free expansion thereof, offtakes located above said bed in spaced relation thereto, and means for removing water through either or both of said offtakes.

1,784,894. AIRPLANE PROPELLER. FRANK A. DUMONT, Shelton, Wash. Filed Mar. 5, 1928. Serial No. 259,177. 6 Claims. (Cl. 170—169.)



1. An airplane propeller, comprising a base, a conical member extending from the base and integral therewith, an elongated bearing for a shaft extending through the base and the apex of the member, a plurality of blades extending circumferentially of and enclosing the member, said blades being disposed in spaced parallel relation and defining a diagonal course in the direction of normal rotation of the propeller, the outer edge portions of the blades being located in angular relation to the base and their inner edge portions inclined in the direction of normal rotation of the propeller, and a plurality of inclined sections extending between said portions, disposed in spaced parallel relation and providing a plurality of air passages between the blades.

1,784,895. CONSTRUCTION OF ROADS AND THE LIKE. LOUIS HERMAN ALFRED DUNKER, Birmingham, England, assignor to The Steel-Mesh Road Service Company, Limited, Birmingham, England. Filed Aug. 10, 1928, Serial No. 298,756, and in Great Britain Aug. 27, 1927. 4 Claims. (Cl. 94—30.)



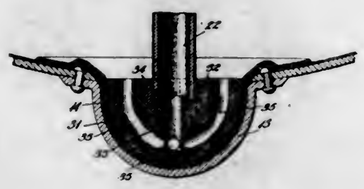
1. In combination with a supporting foundation, a metallic mesh comprising a plurality of bent metal strips loosely disposed in parallel relation, the crests and depressions of said strips being opposed, and metal plates intermediate said strips and said foundation, said metal plates having upturned portions engaging said strips at various points for holding them in fixed relative position.

1,784,896. BRAKE-BEAM STRUCTURE. HERBERT W. EKHOLM, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 5, 1928. Serial No. 267,778. 12 Claims. (Cl. 188—213.)



3. In a brake beam third or fourth point support chair, a device for clamping the chair against a brake beam member, and a separate element seated in said chair and adapted to be forced into the surface of said member when said device is tightened.

1,784,897. CUSHIONING ANCHORAGE DEVICE. HOWARD E. FRITZ, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed July 26, 1928. Serial No. 295,452. 7 Claims. (Cl. 220—86.)

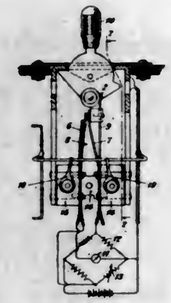


1. In combination, a mobile tank formed with a sump, a resilient member comprising a rubber mounted in said sump, and a well-pipe mounted in said tank, having its lower end engaged with said resilient member and holding the same firmly within the sump.

1,784,898. CIRCUIT SWITCH. LAURENCE A. GARY, San Francisco, and HOMER G. TASKER, Los Angeles, Calif., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed July 17, 1928. Serial No. 293,445. 2 Claims. (Cl. 200—1.)

1. A switch for electric circuits comprising a plurality of contact members, means associated with said contact

members for making and breaking contact therebetween, a plurality of insulating members each in juxtaposition



with one of said contact members, and a current conducting shield having surface contact with each of said insulating members.

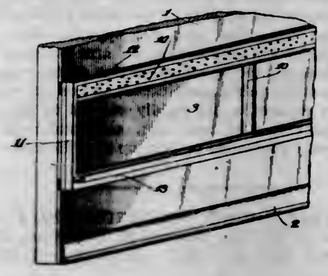
1,784,899. COMPRESSIBLE PACKING. STANLEY IMERMAN, Detroit, Mich. Filed Aug. 11, 1928. Serial No. 298,895. 1 Claim. (Cl. 74—109.)



In a travelling valve, a tubular body, a compressible packing thereon consisting of a series of segmental members arranged in a ring, each such member having a thin portion and a thicker portion at opposite sides of an arcuate line thereon, additional segmental members placed adjacent said thin portions and overlapping the joints therebetween, a spring disposed within the series of first named segmental members and bearing outwardly thereon, and locking means between said thicker portions and the last named segmental members.

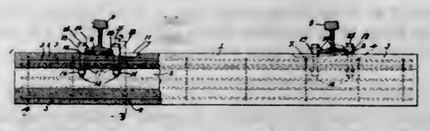
1,784,900. VENTILATED BLACKBOARD INSTALLATION. JOHN F. JOHNSON, Chicago Heights, Ill., assignor to Weber Costello Company, Chicago Heights, Ill., a Corporation of Illinois. Filed Sept. 17, 1928. Serial No. 306,530. 2 Claims. (Cl. 35—15.)

1. In combination in an apparatus for supporting a blackboard of the wall type solely by a wall in such a manner as to preclude the deposit of sweat on the board as a result of its proximity to the wall and to thus preclude the formation of chalk scum of the character described thereon, strips for spacing the board from the wall and additional supporting means for the board in



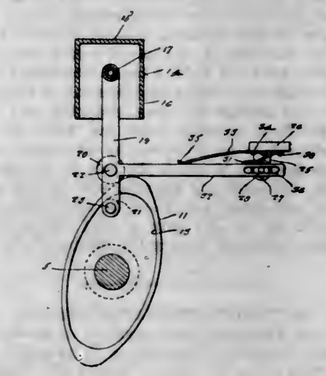
said spacing arranged to define substantially vertical passageways to allow a natural draft of atmospheric air to circulate through each of the passageways.

1,784,901. RAILWAY TIE. FRANK L. KLINGENSMITH, Detroit, Mich. Filed July 11, 1929. Serial No. 377,578. 3 Claims. (Cl. 238—92.)



1. A railway tie including a body formed of cementitious material with a longitudinal opening formed by rapidly rotating the body while the material is in a plastic state, said opening being open through the ends of the body, a metal reinforcement in said body firmly embedded therein during said centrifugal formation of said body and means for securing rails and blocks in place upon the body, said means including members extending through the wall of the body and reinforcement with their inner ends within the longitudinal opening in the body.

1,784,902. POWER-SHAFT CONNECTION FOR INTERNAL-COMBUSTION ENGINES. JOSEPH V. MAURAIS, Muscatine, Iowa. Filed Oct. 22, 1929. Serial No. 401,587. 4 Claims. (Cl. 74—14.)

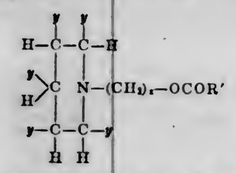


1. A power shaft connection comprising in combination, a piston adapted to be operably associated with a cylinder

of an internal combustion engine, a straight shaft adapted to be horizontally journaled through the internal combustion engine, a cam having an outset track rigidly coupled to the shaft, a connecting arm having one end connected to the piston, a pair of vertically spaced rollers rotatably coupled to the arm at the lower end thereof, the rollers being engageable with the opposite sides of the track, an angularly disposed guide arm merging at its inner end with an intermediate portion of the connecting arm and provided with a longitudinal slot on its outer end, a stationary bracket, a pin rigidly secured to the bracket and movably seated in said slot, and automatic means bearing on said guide arm to take up play in said connecting arm.

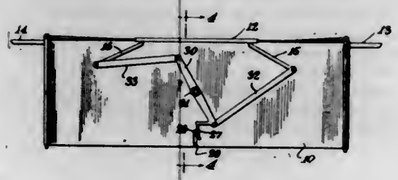
1,784,903. PIPERIDINE DERIVATIVE AND PROCESS OF PRODUCING IT. SAMUEL M. MCELVAIN, Madison, Wis. Filed Mar. 30, 1927. Serial No. 179,725. 44 Claims. (Cl. 260—43.)

1. A piperidine derivative including a substance of the general formula



in which R' is an aromatic radicle, x is an integer, and y in one place is an aliphatic group and in each of the four other places is a hydrogen atom.

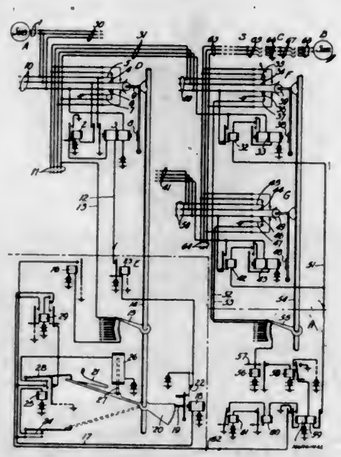
1,784,904. RODENT TRAP. RUPPERT MERKL, Ossining, N. Y. Filed Mar. 25, 1930. Serial No. 438,715. 2 Claims. (Cl. 43—61.)



1. A rodent trap comprising a housing, doors for closing the ends of said housing, cross-rods to which the inner ends of said doors are hinged, angularly bent ends on said rods, frames turnably attached to said cross-rods, a movable platform in said housing, a stake on said platform for impaling the bait, a system of levers connected to said angularly bent rod ends, a lever extending from said platform through the wall of said housing, a trigger combined with said system of levers, engaging said lever to keep the platform elevated with the doors open, said platform adapted to be depressed by an animal stepping on the same desiring to reach the bait to disengage said trigger from said lever and allowing said system of levers to close the end doors and stops on said doors adapted to be engaged by the end bars of said frames for keeping the doors closed for barring the escape of the trapped animal.

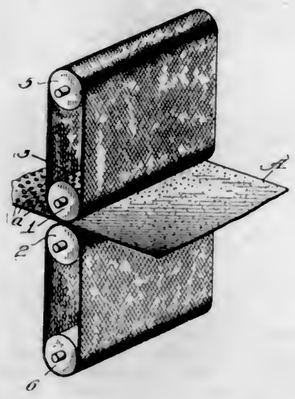
1,784,905. TELEPHONE-EXCHANGE SYSTEM. GEORGE H. MORENCY, Portland, Oreg., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed June 10, 1929. Serial No. 369,671. 9 Claims. (Cl. 179—18.)

1. In a telephone system, calling lines terminating in primary line-switches, secondary line-switches accessible to said primary line-switches, and means operative in the event a plurality of said secondary line-switches are simultaneously seized to prevent the operation of said plurality



of secondary line-switches and to cause the release of those of said primary line-switches by which said plurality of secondary line-switches were seized.

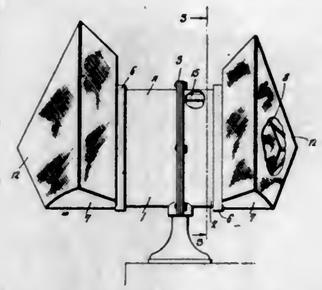
1,784,906. METHOD OF EMBOSSING FIBER SHEETS. LEOPOLD OXHANDLER, Chicago, Ill. Filed Aug. 8, 1927. Serial No. 211,429. 3 Claims. (Cl. 18—56.)



2. The method of embossing a fibrous sheet, which consists in passing the same, saturated with moisture, through embossing rollers with a thin flexible sheet interposed between at least one face thereof and the corresponding roller and forcing separated areas of the sheet bodily out of the plane of the sheet.

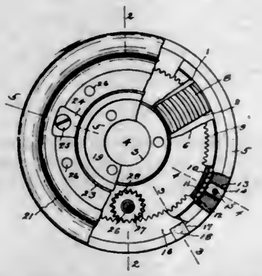
1,784,907. COOLING-FAN ATTACHMENT. ELLA PATRICK, Olathe, Colo. Filed Nov. 15, 1929. Serial No. 407,527. 2 Claims. (Cl. 261—30.)

1. In combination with a motor driven fan, a cylinder surrounding the same and supported from the pedestal of the fan, a cloth screen covering each end of the cylinder, a set of frames in rear of the cylinder, a set of frames in front thereof, each frame being of substantially conical shape and formed of wire, with the frames of each set being of gradually increasing area, cloth screens covering



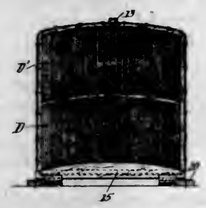
the frames and so arranged that the air entering the cylinder and leaving the same must pass through such screens and means for moistening the screens carried by the frames.

1,784,908. DIFFERENTIAL CHUCK. JOSEPH C. REGAN, West Hartford, Conn., assignor to The E. Horton & Son Company, Windsor Locks, Conn., a Corporation of Connecticut. Filed May 28, 1928. Serial No. 281,065. 3 Claims. (Cl. 279—114.)



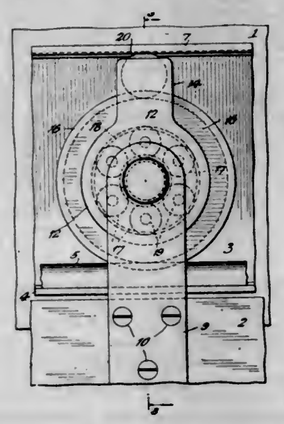
1. A chuck having a body carrying radially movable jaws and a rotatable scroll disk for opening and closing the jaws, balls interposed in a race between the chuck body and the rim of the scroll disk and rotatably supporting and locking said disk in place in the body, said body having an opening through the rim from the exterior to said race for the introduction of said balls, and means removably fitted in and closing said opening.

1,784,909. METHOD AND APPARATUS FOR SHIPPING METAL. ROBERT T. ROMINE, Mount Clemens, Mich. Continuation of application Serial No. 313,846, filed Oct. 20, 1928, now Patent No. 1,745,057, dated Jan. 28, 1930. This application filed Jan. 23, 1930. Serial No. 422,846. 20 Claims. (Cl. 105—369.)



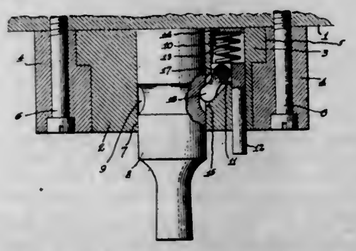
1. The hereindescribed method of shipping sheet, bar or strip metal, in relatively heavy unit packs on a freight car floor which consists in applying friction to the pack by binding the same as a unit with the upper or lower horizontal surface in engagement with relatively softer material, such as wood, and distorting the pack transversely of the binder against said material to increase the frictional engagement.

1,784,910. SLIDING-DOOR HANGER. BERNARD ROWNTREE, Carmel Highlands, Calif. Filed Sept. 14, 1927. Serial No. 219,448. 5 Claims. (Cl. 16—98.)



1. A sliding door support of the type described comprising a horizontally extending trackway, a sheave adapted to roll upon said trackway, a door support carried by said sheave, a second trackway having a concave curved surface spaced parallel with and adjacent said first trackway, and an anti-friction means adapted to contact with said sheave and said second trackway and prevent excessive tilting and friction should the sheave be raised from its trackway by reason of a tilting of the door in sliding same.

1,784,911. TOOL-RETAINING DEVICE. MICHAEL J. SCHLITTERS, Jr., and STANLEY IMERMAN, Detroit, Mich. Filed May 6, 1927. Serial No. 189,444. 2 Claims. (Cl. 279—79.)



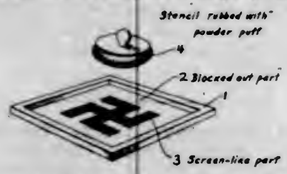
1. A retainer for tools and the like comprising a socket member having a receiving aperture, a head slidably mounted in said member, a detent carried by said head and extending into said aperture, and a stem fixed to said head and passing through said member at the side having the receiving end of said aperture.

1,784,912. STENCILING. BEATRICE P. SCOTT, Marblehead, Mass. Filed Mar. 31, 1927. Serial No. 180,073. 5 Claims. (Cl. 101—129.)

1. The process of stenciling a design upon the surface of an object which consists in imparting an electric

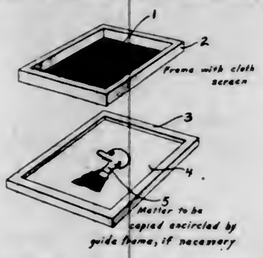
CARNEGIE LIBRARY OF ATLANTA

charge to the surface of the object by rubbing it, applying a dry powder to the surface through a design-bearing



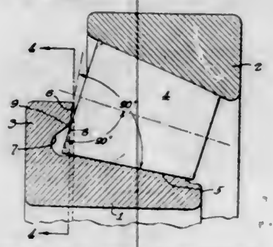
stencil screen applied to the surface by repeatedly rubbing the powder through the screen and onto the electrified surface, and removing the screen from the surface.

1,784,913. REPRODUCING PROCESS. BEATRICE F. SCOTT, Marblehead, Mass. Filed Aug. 28, 1928. Serial No. 302,573. 5 Claims. (Cl. 101—129.)



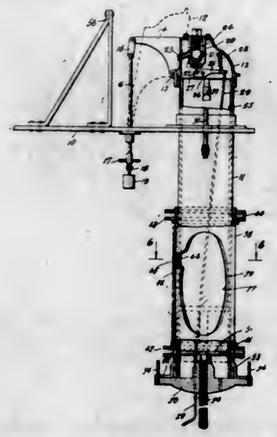
1. A process for reproducing characters formed of printer's ink consisting in placing a screen over the characters to be reproduced, rubbing a dry powder into said screen to form in the interstices thereof a copy of the original in powder-image form and thereafter placing said image-carrying screen upon a receiving surface and rubbing the powder contained in said screen from the screen and upon the surface.

1,784,914. ROLLER BEARING. SILAS A. STRICKLAND and THOMAS ZIMMERMAN, Detroit, Mich., assignors to Bower Roller Bearing Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 26, 1928. Serial No. 328,329. 4 Claims. (Cl. 308—214.)



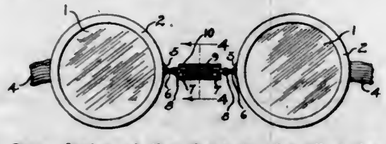
1. In tapered roller bearing structures, wherein the rolling cones and coacting conical surfaces produce a resultant endwise thrust of said cones, a bearing having an annular shoulder to take such end thrust, a cross-section of the bearing presenting said shoulder as having its active face projecting relative to a plane corresponding to the adjacent one of said conical surfaces with the projection at such angle as to permit of concurrent grinding of the active faces of both the shoulder and conical surface, said shoulder being recessed inwardly at the apex of the planes which produce the angle to locate the thrust-receiving line of the shoulder as spaced from the plane of the adjacent conical surface, and as the lower boundary of the ground face of the shoulder, whereby the cone thrust will be presented as a spaced two point or zone contact.

1,784,915. ESCAPE TUBE FOR SUBMARINES. HENRY A. STUDWELL, Stamford, Conn. Filed May 21, 1928. Serial No. 279,287. 6 Claims. (Cl. 114—16.6.)



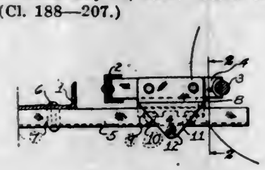
1. An escape device for submarines comprising a tubular casing adapted to project through the deck of the submarine, a hinged closure for the upper end of said casing and opening outwardly, said closure being provided with an opening closed by a valve, operating means carried by the closure for manually opening the valve and for automatically reclosing it, said casing being provided with an entrance opening within the submarine, and means for closing said opening operable from within the casing.

1,784,916. LINK BRIDGE FOR OPHTHALMIC MOUNTINGS. HARRY H. STILL, Southbridge, Mass. Filed Dec. 15, 1927. Serial No. 240,149. 3 Claims. (Cl. 88—44.)



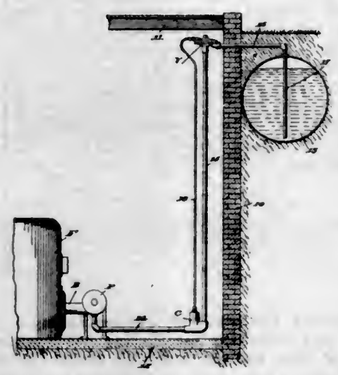
1. In a device of the character described for use in combination with a pair of lens holding members, a pair of link rods having their terminal ends facing and separated from each other each having a terminal eye, an attaching member on each lens holding member having an eye linked in an eye of one of said link rods for universal movement and threaded means adapted to change the distance between the facing ends of the two rod links.

1,784,917. HANGERLESS BRAKE BEAM. CHARLES I. WALKER, Los Angeles, Calif., assignor to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed May 14, 1927. Serial No. 191,422. 9 Claims. (Cl. 188—207.)



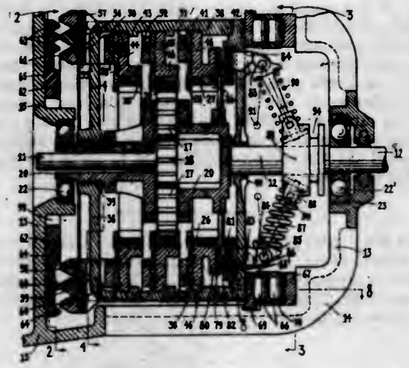
1. In a brake beam and mounting of the hangerless type, a beam, a support arm, and anti-friction elements carrying said beam on said arm and engaging opposite sides of said arm.

1,784,918. ANTISIPHONING SYSTEM. ALBERT U. WALTER, Baltimore, Md. Filed Nov. 22, 1927. Serial No. 234,975. 14 Claims. (Cl. 103—1.)



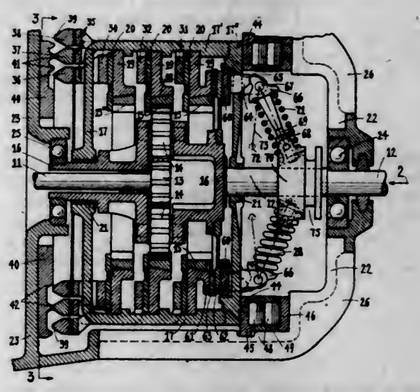
1. In a liquid feeding system having an elevated supply and a low level discharge, with a siphon conduit connecting the supply and discharge, a suction pump to draw the liquid through the conduit, a valve for closing said conduit located therein at a point above the liquid level in the elevated supply, means for normally holding said valve closed when there is no suction on the line, and means operating independently of the head of liquid between the valve and the pump for opening the valve and holding said valve open during the operation of the pump and for permitting said valve to close when the pump suction ceases.

1,784,919. TRANSMISSION. ERNEST WILDHABER, Brooklyn, N. Y. Filed July 16, 1928. Serial No. 292,947. 21 Claims. (Cl. 74—34.)



1. In an automotive transmission, a driving element and a driven element, means for operatively connecting said elements, a joint rotatable member, a plurality of individual coaxial members suited to be locked to said joint rotatable member, means for maintaining said joint member stationary, frictional surfaces disposed on said individual members and on said joint member, a selector, means for transmitting pressure from said selector to an individual member, and means for effecting pressure between said selector and said joint member, for frictionally locking a previously selected individual member to said joint member.

1,784,920. TRANSMISSION. ERNEST WILDHABER, Brooklyn, N. Y. Filed July 16, 1928. Serial No. 292,948. 12 Claims. (Cl. 24—34.)



1. In a planetary transmission, frictional clutching means for effecting direct drive, spring means in constant operative connection with said clutching means for maintaining said clutching means in engagement under pressure, a brake for maintaining a member of the transmission stationary, other spring means in constant operative connection with said brake for maintaining said brake in engagement, a pedal, and means for operatively connecting said pedal selectively with said clutching means and with said brake.

1,784,921. CHANGEABLE EYES FOR DOLLS. IRA C. WINTERS, Norwich, N. Y. Filed Nov. 22, 1929. Serial No. 409,142. 2 Claims. (Cl. 46—40.)

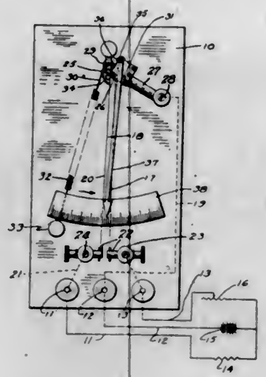


1. In combination with a doll having eye openings in its head part, a shaft rotatably supported in the head of the doll, spherical members on the shaft having portions projecting through the eye openings, eye designs on each member of different colors and located in different positions with respect to the eye opening, means for rotating the shaft to bring any desired pair of designs into view through the openings, such means comprising a second shaft rotatably supported in the head of the doll, a weight thereon and chain and sprocket means for connecting the shafts together.

1,784,922. ELECTRICAL THERMOMETER. JOSEPH W. ALLEN, Dayton, Ohio. Original application filed Aug. 28, 1924, Serial No. 734,817. Divided and this application filed Mar. 16, 1929. Serial No. 347,633. 2 Claims. (Cl. 171—308.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)

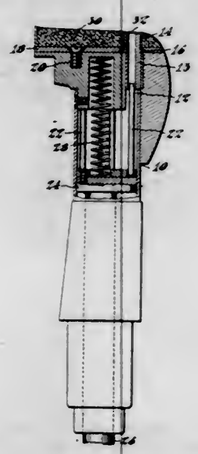
1. In an electrical measuring instrument of the character described, a wire loop, a pivoted arm for a pulley

over which said loop passes, tensioning means normally urging said arm outwardly to keep the loop taut, and



means carried by said arm and movable relative to a scale upon turning of said pulley due to the expansion and contraction of said loop.

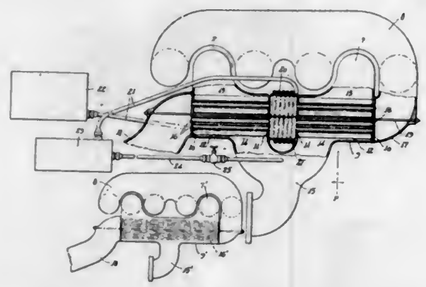
1,784,923. SHOE-SUPPORT. WILLIAM RODERICK BARCLAY, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 9, 1925, Serial No. 55,321, and in Great Britain Oct. 6, 1924. 7 Claims. (Cl. 1—32.)



1. A shoe-support comprising fastening-receiving tubes, and a body surrounding the tubes and arranged for contact with the heel-seat portion of a shoe, said body and tubes being organized for relative movement under pressure of the work and offering to the shoe under the influence of such pressure substantial uniformity of contact and reaction over the entire area.

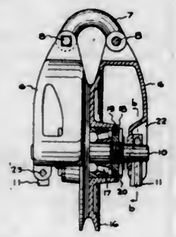
1,784,924. GAS-HEATING MANIFOLD. LEVI H. BERRY, Joplin, Mo. Filed Mar. 17, 1928. Serial No. 262,469. 2 Claims. (Cl. 123—180.)

1. The combination of intake and exhaust manifolds of an engine, the intake manifold having a tubular body portion with partitions between its ends forming chambers between said partitions and ends, said chambers having outlets, and the intake manifold having a bifurcated trunk communicating with said chambers, and flues in said chambers between said partitions and ends of said body portion, the exhaust manifold extending to one end of said body portion in communication with the corre-



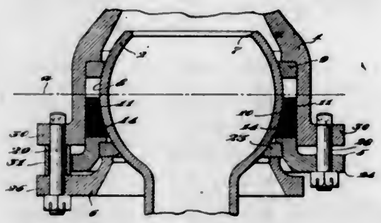
sponding flues, and said body portion having a chamber between said partitions establishing communication between said flues, and gas supplying means having a coil surrounding the last-named chamber and connected to the intake manifold.

1,784,925. PULLEY BLOCK. ALVIN R. CAMPBELL, Seattle, Wash. Filed May 9, 1925. Serial No. 29,058. 3 Claims. (Cl. 254—192.)



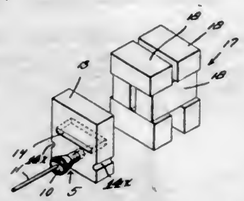
1. A demountable pulley block embodying a sheave; a pin for said sheave, said pin being tapered on each end portion, said end portion having a key way slot therethrough; two side mounting members constituting the pulley block shell, each of said members having a tapered hole adapted to receive said sheave pin, and a tapered slot; a tapered key to fit the key way slot in said sheave pin and said slot in said side members; and a releasably mounted shackle operatively disposed to unite the tops of said side members.

1,784,926. SWIVEL-JOINT PACKING. GEORGE CHRISTENSON, North Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a Corporation of New York. Filed July 25, 1927. Serial No. 208,072. 2 Claims. (Cl. 285—94.)



1. A universal joint pipe coupling construction comprising relatively movable ball and socket members, bearing rings between the ball and socket members, and packing between the rings, said packing comprising yieldable rings, said packing rings having an interfitting V-shaped groove and recess with the sides thereof inclined in relation to the general plane of each of the rings, a gland member holding one of the packing rings in place, said packing rings being disposed entirely at one side of a plane passing through the center of the ball, said packing and bearing rings being arranged to afford a fluid space between the ball and socket upon the side of the packing remote from the gland, whereby fluid pressure due to leakage into said space tends to cause the packing rings to be pressed into more intimate engagement with each other and the walls of the ball and socket members.

1,784,927. FUEL BURNER. OSCAR M. COON, Lubbock, Tex. Filed Mar. 16, 1928. Serial No. 262,092. 1 Claim. (Cl. 158—7.)

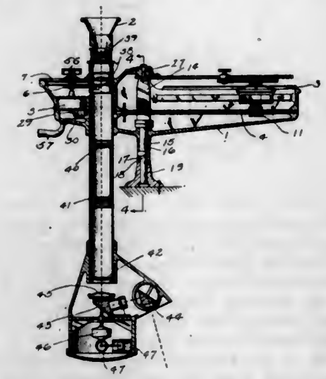


The combination of a burner open at its opposite ends and containing a comparatively small nozzle whereby a passage for air is afforded between burner and nozzle, and a burner block having an aperture receiving said burner and also having a slot above said aperture and burner and means in its end portions at opposite sides of the burner aperture for the passage of air.

1,784,928. VACCINE FOR HOG CHOLERA, AND PROCESS FOR MANUFACTURING THE SAME. MARION DORSET, Washington, D. C. Filed Sept. 1, 1928. Serial No. 303,619. 4 Claims. (Cl. 167—80.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)

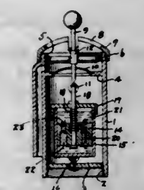
1. A vaccine for hog cholera comprising hog cholera virus from any source and formaldehyde in amount sufficient to eliminate the disease producing power of the virus without destroying its immunizing power.

1,784,929. AERIAL NAVIGATION INSTRUMENT. GEORGES ESTOPPEY, Dayton, Ohio. Filed Apr. 10, 1926. Serial No. 101,121. 10 Claims. (Cl. 33—46.5.)



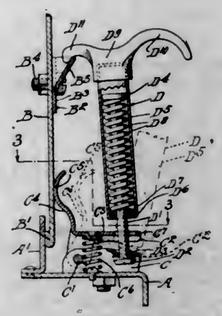
10. An instrument for determining automatically the relation between the various speed vectors for a moving craft comprising means for resolving the vectors of the various speeds into a mechanical triangle, said means comprising vector arms graduated and pivotally associated and including a ground-speed arm, means for determining the ground speed, and means comprising an index for indicating the ground-speed on said ground-speed arm and for interconnecting said arm and the wind speed arm whereby the length of the side of the triangle representing the ground-speed is automatically set up as the ground-speed is determined.

1,784,930. SWITCH. HARMON A. GEORGE, Petaluma, Calif. Original application filed July 24, 1926, Serial No. 124,762. Divided and this application filed May 16, 1927. Serial No. 191,858. 4 Claims. (Cl. 200—34.)



1. A switch adapted to close various circuits and to be manually moved in a plurality of directions, a cylinder adapted to hold a fluid, a piston in said cylinder, a rod pivotally connected to said switch and passing into said cylinder and slidably connected to said piston, said piston being resiliently mounted to disconnect the switch from a circuit, said piston having an aperture therethrough and means for adjusting the cross sectional area of said aperture, and a valve in said piston adapted to be opened by the fluid in the cylinder when the piston is moved.

1,784,931. HOOD LATCH. CHARLES B. GILMORE, Chicago, Ill., assignor to Chicago Forging & Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed July 14, 1928. Serial No. 292,641. 4 Claims. (Cl. 292—114.)



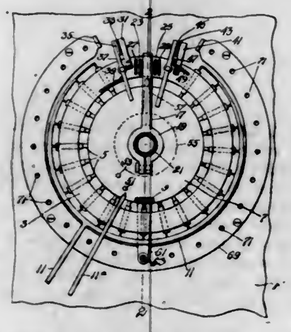
1. In a hood latch for automobile hood closures, the combination of a down clamp element adapted to exert a thrust downwardly against the hood, and a lateral thrust element adapted to exert a thrust laterally against the hood, the two being independent in their operation during their simultaneous operative connection with the closure, and means associated with the down clamp element for withdrawing the lateral thrust element from operative engagement with the hood in response to movement of the down clamp element after its release.

1,784,932. PROCESS OF WELDING DRILLS. FRANK O. HOAGLAND, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 1, 1928. Serial No. 251,109. 3 Claims. (Cl. 76—108.)



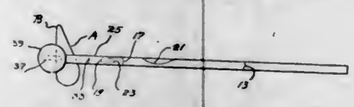
1. The process of welding a drill bit to a tubular shank, comprising butt welding to a drill bit of alloy steel having a longitudinal hole therethrough a piece of carbon steel having a similar cross-section to the drill bit and having a longitudinal hole therein, butt welding a tubular shank to the end of the carbon steel, and longitudinally drilling through said drill bit and said carbon steel and into said tubular shank.

1,784,933. ELEVATOR-CONTROL DEVICE. JOSEPH R. JACKSON, Jr., Boston, Mass. Filed Apr. 14, 1928. Serial No. 270,133. 9 Claims. (Cl. 187—29.)



5. In an electric elevator control, a shaft, a rotor thereon having conducting and insulation portions, a support, a series of spring-pressed contact pins carried by the support and engaging the rotor, manually operable means for turning the rotor to set the same in different positions of rotative adjustment, and means for holding the rotor in its different positions of adjustment.

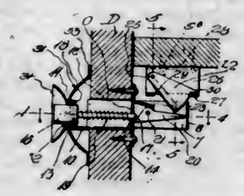
1,784,934. PLECTRUM HOLDER. PER WILHELM JOHANSSON, New York, N. Y. Filed Aug. 9, 1927. Serial No. 211,694. 11 Claims. (Cl. 84—322.)



1. A plectrum holder for stringed musical instruments including an extended handle portion, and a pair of rigidly connected flexible spaced jaws extending therefrom and having flat faces for frictionally seizing the plectrum therebetween, and means for releasably drawing the jaws positively together to clamp the plectrum firmly in its assigned position.

1,784,935. DOOR LATCH. VICTOR E. JOHNSON, Royal Oak, Mich., assignor of one-half to Jone E. Wolcott, Royal Oak, Mich. Filed Sept. 27, 1928. Serial No. 308,758. 6 Claims. (Cl. 292—227.)

1. In a door latch, a casing for passage through a door and having a portion to project rearwardly beyond the door, said projecting portion of said casing having an open side, a self-projecting latch having means for mounting it independently of the door and having a portion receivable in said open side of the casing, and means in



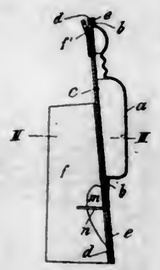
said casing for forcing said latch from the casing when desired, said means having an operating button at the front of the door.

1,784,936. SPRING CATCH AND LIKE DEVICE. ARTHUR W. KIMBELL, Chicago, Ill., assignor to Cinch Manufacturing Corporation, Chicago, Ill., a Corporation of Illinois. Filed Nov. 30, 1928. Serial No. 322,844. 4 Claims. (Cl. 292—74.)



1. A device of the class described comprising a casing part having a front face portion provided with an aperture and an attaching portion provided with an expansible peripheral wall, an axially movable spring pressed member projecting through said aperture and beyond the front face portion, and means providing a hump whereby the casing may be attached to a supporting structure by flattening the boss to expand a portion of the said peripheral wall of the attaching portion.

1,784,937. SHOW ARTICLE. PAUL KRESLAWSKY, Berlin, Germany. Filed Mar. 21, 1928, Serial No. 263,448, and in Germany Apr. 4, 1927. 5 Claims. (Cl. 40—126.)



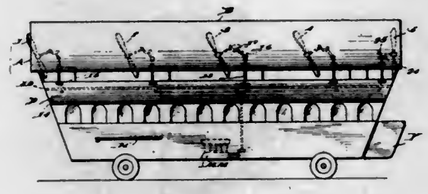
1. In a show and exhibiting article, a hollow, forwardly closed, rearwardly open, cross-sectionally substantially channel shaped relievo-facsimile of a natural object, a marginal flanged portion around the edges of said facsimile, an inwardly bright covering sheet, closing the cavity of the facsimile and secured to the rear side of the flanged portion, and a surrounding frame upon the other side of the flanged portion and conforming to the outlines of the facsimile, and attached to the covering sheet and rockingly disposed supporting means at the back-side of the covering sheet and at an angle thereto.

1,784,938. WINDOW-FRAME CONSTRUCTION. GEORGE W. LANCASTER, Richmond, Va. Filed Aug. 18, 1929. Serial No. 385,520. 11 Claims. (Cl. 189—75.)



1. A window frame having the opposite stiles thereof provided with slots, a channel member secured to the back of each stile across the slot therein, a pair of sashes having tongues on the opposite stiles thereof slidable in said slots, and parting beads detachably secured to the bottom of each channel member for slidably engaging the adjacent tongues of said sashes and to lock the sashes slidably in said frame.

1,784,939. AEROPLANE. FITZ RANDOLPH LONGSTREET, Gainesville, Ga. Filed Aug. 24, 1929. Serial No. 388,236. 2 Claims. (Cl. 244—14.)



1. An airship, using a series of propellers placed directly under the top of rounded or angular roof planes, and extending at intervals parallel with said ridge almost the length of roof planes, said propellers being turned slightly upwards towards the rear, except rear propeller which is made vertical, as set forth.

1,784,940. ART OF MAKING SHOES. ALGERNON W. MATTHEWS, Haverhill, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 9, 1929. Serial No. 345,822. 18 Claims. (Cl. 12—142.)

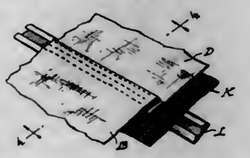


1. The method of making shoes which comprises assembling a shank stiffener and an insole, each having a fastener-receiving hole preliminarily formed therein, and securing the shank stiffener to the insole with said holes in registration, securing an upper to the insole, assembling an outsole with the insole and upper, utilizing said holes to locate a fastener at the outer side of the outsole in alinement with said holes, and passing the fastener inwardly through the outsole and through the registered holes in the insole and shank stiffener to secure together the outsole, shank stiffener and insole.

1,784,941. WATER-SOLUBLE PRODUCT FROM FATTY ACIDS OCCURRING IN WOOL FAT. GUSTAV MAUTHE, Cologne-Holweide, and ALFRED THAUSS, Cologne-Deutz, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Jan. 31, 1929, Serial No. 336,636, and in Germany Feb. 7, 1928. 10 Claims. (Cl. 87—12.)

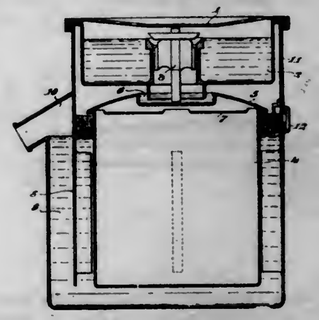
1. Process which comprises reacting upon the fatty acids occurring in wool fat with air at a temperature between about 100–300° C. and sulfonating the products thus obtainable in the presence of a phenol.

1,784,942. GARMENT AND SEAMING THEREFOR. HENRY MILLER, Lincoln, Nebr. Filed Sept. 18, 1929. Serial No. 393,527. 1 Claim. (Cl. 2—276.)



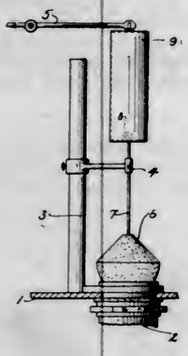
A fabric seam consisting of the infolded edge portions of associated fabric sections, said infolded edge portions being disposed in overlying relation and with the infolded parts having their outer faces engaging each other, a taping strip having infolded edge portions disposed in overlying relation to the first named infolded edge portions, a row of stitching extending through each of the infolded edge portions of the taping strip and through each of the infolded edge portions of the fabric sections, and a row of stitching extending through the parts thus united and disposed between the other rows of stitching.

1,784,943. SEPARATOR FOR LIGHT LIQUIDS. IGNAZ MÜLLER, Vienna, Austria. Filed July 13, 1929, Serial No. 378,131, and in Austria July 18, 1928. 6 Claims. (Cl. 210—56.)



1. In a separator for light liquids a casing, a dross collector closing such casing, an accumulating vessel for the light liquid, a cover for the accumulating vessel and an annular space constituting the separating chamber, both being arranged in such manner that water is compelled to flow over the cover, ere it enters the said separating chamber, and a liquid seal for the separating chamber, said seal being created and maintained between the dross collector and the separating chamber by means of the water flowing into the separating chamber.

1,784,944. TOILET FLUSHER. LUDVIG B. NORDLUND, San Francisco, Calif. Filed Oct. 29, 1928. Serial No. 315,887. 1 Claim. (Cl. 4—57.)

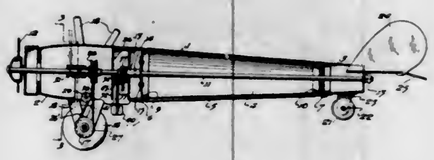


In a toilet flusher, a valve having a stem extending therefrom, an operating member for the stem and a connecting link between the stem and the member engaging the former with freedom of sliding motion and having a cylindrical wall encircling the stem as the valve is lifted for limiting tilting motion of the valve stem.

1,784,945. METHOD OF NITRATING CELLULOSE. LOUIS A. PINCK, Washington, D. C. Filed June 27, 1928. Serial No. 288,795. 5 Claims. (Cl. 260—145.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)

4. A process of nitrating cellulose, which comprises in passing oxides of nitrogen into sulphuric acid, then adding cellulose and carrying the reaction substantially to completion.

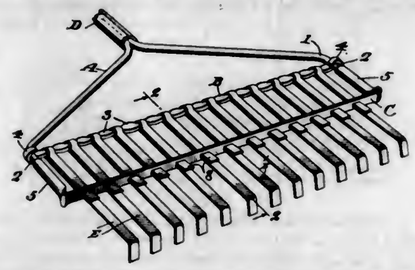
1,784,946. TOY AEROPLANE. FOISTER S. RIMER, Washington, D. C. Filed Jan. 3, 1930. Serial No. 418,319. 2 Claims. (Cl. 46—48.)



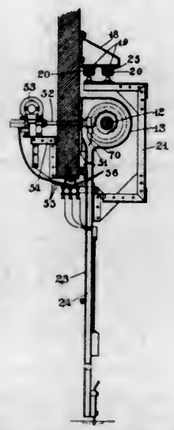
1. A toy aeroplane having a symmetrically shaped body comprising front and rear sections and an intermediate section, a propeller shaft fixed to and mounted for rotation with said intermediate section, means for maintaining the ends of said intermediate section in spaced relation to the opposing ends of the said front and rear sections, and means for rotating the propeller shaft.

1,784,947. RAKE. CAMILLE J. ROCQUIN, New Orleans, La. Filed Dec. 20, 1927. Serial No. 241,384. 4 Claims. (Cl. 55—10.)

1. In a rake, the combination with a support, of spaced front and rear cross bars connected thereto, said rear cross bar being provided with a plurality of spaced reduced portions; and a plurality of spaced, forwardly extending tines having their rear ends connected to the reduced portions of the rear cross bar and having their intermediate portions connected with said front cross bar.



1,784,948. DOOR FOR HANGARS AND OTHER STRUCTURES. ALBERT RUSH, Columbus, Ohio, assignor to The Kinnear Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Original application filed Nov. 12, 1927, Serial No. 232,775. Divided and this application filed Oct. 25, 1929. Serial No. 402,518. 6 Claims. (Cl. 189—54.)



2. In combination with a structure provided with a plurality of doors or curtains, a post having a guide for a margin of one of said curtains, means for supporting said post permitting it to be slid laterally into and out of margin-guiding position, electrically operated means for raising and lowering said curtain, and means on the post for controlling said electrically operated means.

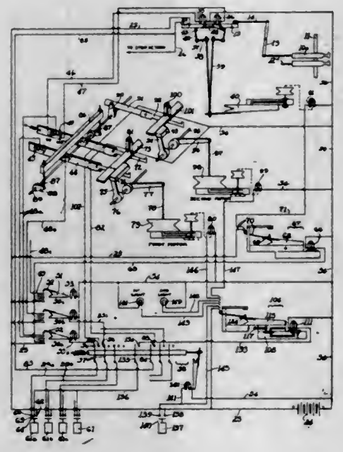
1,784,949. PROCESS OF CONVERTING TURPENTINE AND PINE-TAR OILS INTO HEAVIER OILS. EUGENE BURTON SMITH, Jacksonville, Fla., assignor to Edward Wilson Colledge, trustee for National Turpentine Products Company, Jacksonville, Fla., a Corporation of Florida, and American Turpentine & Tar Company, Ltd., New Orleans, La., a Corporation of Louisiana. Filed June 6, 1927. Serial No. 197,001. 1 Claim. (Cl. 134—56.)

The process of converting turpentine and pine tar oils into heavier oils adapted to serve as paint vehicles which consists in vaporizing the oils, passing the vapors in contact with fuller's earth as a catalyst, then condensing the vapors, passing the condensate into contact with the fuller's earth catalyst to dissolve and remove polymerized oil therefrom, and repeating the vaporizing catalyzing and condensing steps until the polymerized processed product reaches the viscosity and specific gravity adapting it for use as a paint vehicle.

1,784,950. PROCESS OF PRODUCING CHROMIC ACID. MARVIN J. UDY, Niagara Falls, N. Y., assignor to Electro Metallurgical Co., a Company of West Virginia. Filed Dec. 16, 1927. Serial No. 240,637. 4 Claims. (Cl. 23—145.)

1. The process of recovering chromic acid from solutions containing soluble salts of chromic acid which comprises causing the solution to react with lead sulphate to form lead chromate, separating the latter from the solution, decomposing the lead chromate with sulphuric acid of such a concentration as to directly precipitate lead sulphate and simultaneously form a solution of chromic acid substantially free from dissolved salts, separating the lead sulphate from the solution, and recovering chromic acid from the solution.

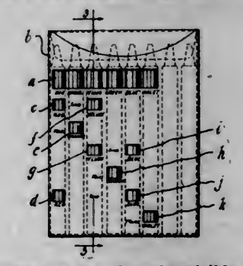
1,784,951. ORGAN STOP ACTION. EDMOND VERLINDEN, Milwaukee, Wis. Filed Oct. 27, 1928. Serial No. 315,552. 23 Claims. (Cl. 84—345.)



10. The combination, with a plurality of stop keys movable to "off" and "on" positions, a plurality of devices for selectively moving said stop keys to their alternative positions, a plurality of shiftable stop-controlling circuit-closers disposed in combination-controlling groups and having circuit connections with said stop-operating devices for operating the same, a combination push-button for each combination-controlling group of circuit-closers and having circuit connections therewith for directing current to said stop-operating devices, setting means for each group of combination-controlling circuit-closers to simultaneously actuate a group of circuit-closers into selective stop-controlling positions, stop-key-controlled means for determining the position to which said circuit-closers will be actuated, a relay having circuit connections with said combination push-buttons for alternatively controlling the setting of combinations or the bringing on of combinations, a combination-control push-button having circuit connections with said relay for moving it to its combination-setting position, and means controlled by any one of said combination push-buttons for retaining said relay in its combination-setting position to permit the release of said combination-control push-button.

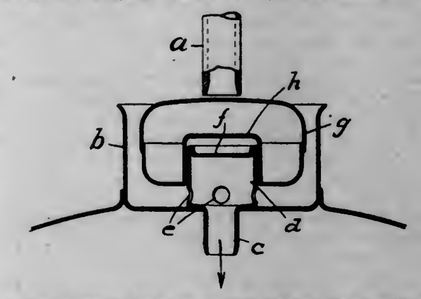
1,784,952. EDUCATIONAL APPLIANCE. HAROLD M. WOLFSON, New York, N. Y., assignor to Milton Bradley Company, Springfield, Mass., a Corporation of Massachusetts. Filed Feb. 20, 1929. Serial No. 341,504. 2 Claims. (Cl. 35—12.)

1. A commercial package of color tools comprising, color-making articles each appropriately colored on its exterior and arranged in a row, a box container enclosing the row, said container having a plurality of groups of small windows or peek-holes through each of which only



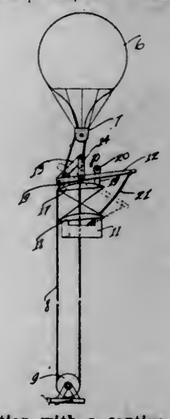
one of said articles is prominently visible by its color, the windows of each group having indicia associated therewith to suggest a factual color association for such group.

1,784,953. LIQUID-FLOW REGULATOR FOR CENTRIFUGES. BERT R. WRIGHT, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 30, 1928. Serial No. 273,912. 9 Claims. (Cl. 137—104.)



1. In a liquid flow regulating device, the combination with a cup having an outlet nozzle and, extending upward from the bottom of the cup, a cylindrical member with a closed top, of a float having, projecting inward from the bottom thereof, a cylindrical member adapted to be guided by and slide over said cylindrical member and by coaction therewith to form a dash pot substantially sealed against entrance and exit of gases.

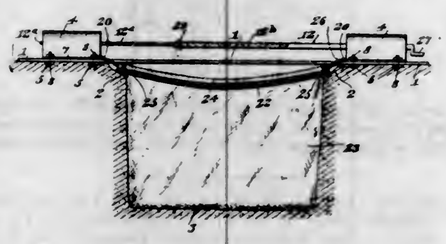
1,784,954. APPARATUS FOR RELEASING GLIDER PLANES. OSCAR ALVISTUR, Oakland, Calif. Filed Dec. 13, 1929. Serial No. 413,852. 4 Claims. (Cl. 244—2.)



3. The combination with a captive balloon, of an apparatus for raising a glider plane to propel the same into

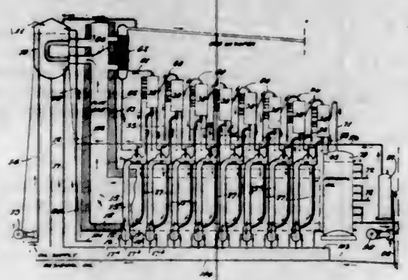
flight, said apparatus including means for elevating the balloon, a glider carrying frame mounted on said last mentioned means and adapted upon actuation of said frame by the occupant of the glider to propel the plane into flight.

1,784,955. PORTABLE IRRIGATION HEAD GATE. HOWARD A. BALLARD, Clarksburg, Calif. Filed Aug. 29, 1928. Serial No. 302,857. 4 Claims. (Cl. 61—29.)



1. In a combination of the character described, a shaft, means for rotatably supporting said shaft, a flexible supporting member extending longitudinally of said shaft and sagging therebelow intermediate the ends of the shaft and supporting member, means connecting said supporting member to said shaft, whereby as said shaft is rotated the sag in said supporting member will be decreased or increased, and a flexible dam mounted upon said supporting member, as and for the purposes set forth.

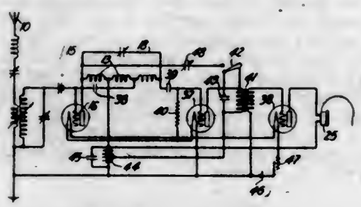
1,784,956. DISTILLING APPARATUS AND METHOD. EDWARD O. BENJAMIN, Newark, N. J. Filed July 28, 1924. Serial No. 728,543. 26 Claims. (Cl. 196—49.)



1. A process of refining oil, which includes passing the oil successively through a series of retorts in each of which the oil is maintained at temperatures higher and pressures lower than in the preceding retort, conducting off vapors from each retort, separately condensing constituents of such vapors, segregating the lighter condensate and feeding heavier condensate into a retort of higher temperature and lower pressure than that of the retort from which it was derived by injector action of higher pressure gases, the differences both in the pressures and in the temperatures being substantial and continuously maintained during normal operation, for the purpose described.

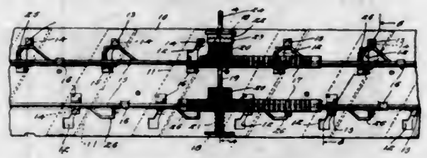
12. A retort having inlet and outlet ports therein adjacent its lower end providing a sediment collecting pocket below and between them, a substantially vertical heated up-flow pipe connected with the lower end of the retort and an unheated down-flow pipe of much smaller cross-section than the up-flow pipe delivering to the lower end of the retort.

1,784,957. ELECTRIC WAVE TRANSMISSION SYSTEM. PHILANDER H. BETTS, Belmar, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 13, 1924. Serial No. 755,612. 11 Claims. (Cl. 179—171.)



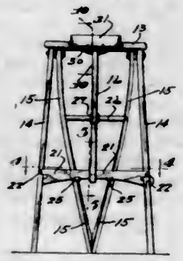
1. In a radio receiving system, a plurality of space discharge tubes, means for supplying high frequency waves to one tube and means for coupling said tube to another tube comprising inductance and capacity elements in a closed loop, said inductance elements being arranged to match the impedances of said tubes to the impedances presented to said tubes by said loop at resonance.

1,784,958. MEANS FOR QUICKLY ATTACHING AND DETACHING TRACTOR-WHEEL CLEATS OR LUGS. TILMON J. CALHOON, Franklin, Ill. Filed Apr. 27, 1929. Serial No. 358,726. 6 Claims. (Cl. 301—44.)



1. The combination with a tractor wheel and traction elements secured to the wheel by transverse movement upon the rim of the wheel, an annulus upon the inner surface of the rim of the wheel and rotatable with relation thereto, coacting elements upon the traction elements and annulus whereby upon rotation of the annulus the traction element is shifted transversely of the wheel rim, and means for locking the annulus against rotation.

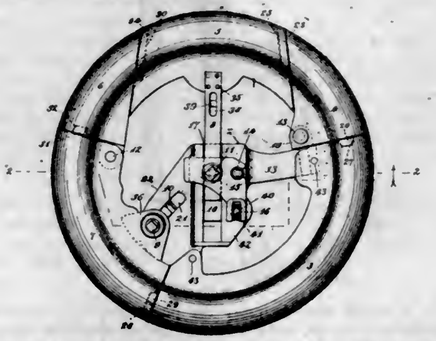
1,784,959. FOLDING IRONING TABLE. CHARLES DANIELSON, Minneapolis, Minn., assignor to Ericson-Nelson Manufacturing Company, Minneapolis, Minn., a Corporation of South Dakota. Filed Aug. 12, 1929. Serial No. 385,181. 5 Claims. (Cl. 68—10.)



1. A folding ironing table including a board, a pair of legs pivoted to the board for swinging movement longitudinally thereof and with a limited swinging movement toward and from each other, a brace for said legs in the form of a toggle-lever the members of which are directly pivoted the one to the other and pivoted at their outer ends to said legs, the inner end portions of

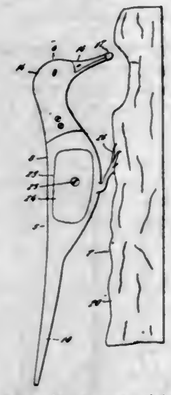
one of said members being extended materially outward of the pivotal connection therebetween, and a retaining device on the other one of said members with which the extended end portion of the first mentioned member interlocks when the brace is straightened to hold said members against lateral separation.

1,784,960. COLLAPSIBLE CORE. BARTHOLD DE MATTIA, Clifton, N. J., assignor, by mesne assignments, to National Rubber Machinery Company, Akron, Ohio, a Corporation of Ohio. Filed June 12, 1925. Serial No. 36,698. 7 Claims. (Cl. 154—9.)



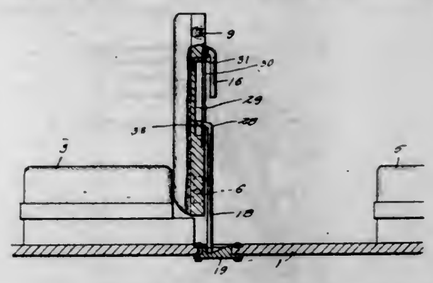
1. In a collapsible core construction, the combination of a core body composed of a plurality of segmental sections, a relatively fixed support therefor, and a pivot connecting one of the segmental sections directly to the relatively fixed support, said pivot being shiftable bodily toward and from the center of the core.

1,784,961. ELECTRIC ANNUNCIATOR. JOSEPH J. ENNEKING, Fort Thomas, Ky. Filed June 12, 1929. Serial No. 370,356. 1 Claim. (Cl. 40—40.)



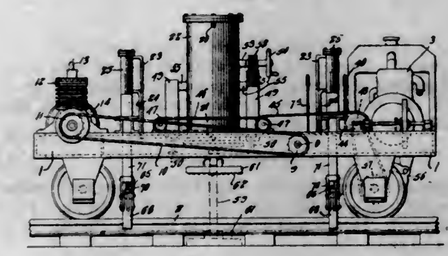
An electric annunciator comprising a hollow resonant supporting member and a figure attached thereto in simulation of a wood pecker and consisting of a hollow body having a shoulder portion provided with an elongated slot in communication with the hollow interior of the body, a movable head mounted on the said shoulder and having a beak in contacting relation with the supporting member, said head and shoulder having relatively broad arcuate contacting bearing faces, a spring strip extending longitudinally of the hollow interior of the body with its inner end secured to the said body and its outer end disposed through the said slot in the shoulder and anchored loosely within the said head and electrically operating means in the said body for rapidly vibrating the said strip to impart oscillatory movement to the said head.

1,784,962. CONVERTIBLE AUTOMOBILE BODY. THOMAS P. FESKO, Ecorse, via Detroit, Mich. Filed Nov. 30, 1929. Serial No. 410,790. 1 Claim. (Cl. 155—7.)



In a convertible automobile body having the back of its front seat supported for movement from its normal position into a horizontal or bed forming position, bearings passing through the floor of the body and provided with flanges contacting with the under side of the floor, the bearings being provided in their upper sides with recesses having upwardly and rearwardly inclined bottom walls, the side walls of the recesses being provided in their front ends with sockets open at their upper sides, plates contacting with the upper side of the floor and closing said sockets and provided with slots registered with said recesses, bolts passing through the flanges and plates and through the floor, braces having their lower ends arranged in the bearing recesses and passing through the slots in the plates, lateral lugs carried by said ends of the braces, and arranged in the bearing socket, and means pivotally and slidably connecting the upper ends of the braces to the back, the braces being adapted to occupy an upwardly and forwardly inclined position with the lower end portions in contact with the bottom walls of the bearing recesses when the seat is in horizontal position.

1,784,963. TRACK-SHIFTING APPARATUS. GROVER J. HOLT and WILFRED LONGEVIN, Crosby, Minn., assignors, by mesne assignments, to The Reclamation Company, St. Paul, Minn., a Corporation of Delaware. Filed May 23, 1929. Serial No. 365,319. 47 Claims. (Cl. 104—8.)

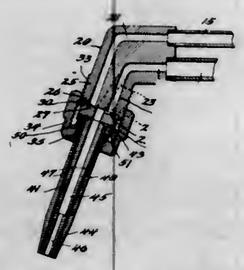


1. In a track shifting machine, a power source and a fluid pressure actuated track raising and shifting mechanism.

1,784,964. CUTTING AND WELDING TORCH. ALEXANDER F. JENKINS, Baltimore, Md. Filed Sept. 7, 1928. Serial No. 304,531. 21 Claims. (Cl. 158—27.4.)

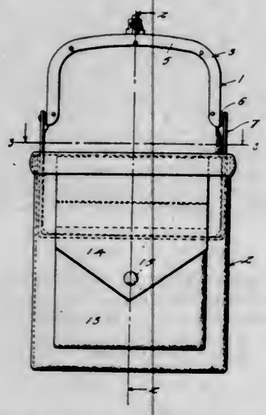
19. In a combined cutting and welding torch, in combination, a torch head having passages therethrough for preheating gas or gases and cutting oxygen, said head having a face with eccentrically arranged apertures in which said passages terminate, a tip having an axial bore, and a plurality of eccentric bores surrounding said axial bore, the

combination of means interposed between said face and the inner end of said tip for adapting said torch for either cutting or welding as desired, said means comprising a cylindrical plug having a central bore always in register



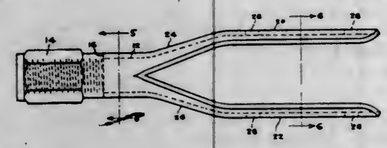
with said axial bore of said tip, and an eccentric bore adapted in one position of said plug to communicate with one of said head apertures, and in another position to lie therebetween.

1,784,965. LEADER CARRIER. SHERMAN O. HUFFMAN, Duquesne, Pa. Filed Mar. 19, 1929. Serial No. 348,267. 7 Claims. (Cl. 43—22.)



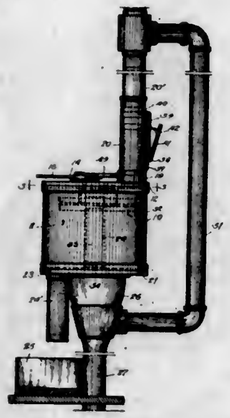
1. A fisherman's leader carrier comprising a purse consisting of a frame and a bag of moisture retaining material secured therein, a water proof pouch designed to receive the purse, and an air bag forming a part of said pouch to make the same non-sinkable.

1,784,966. METHOD OF MAKING COUPLING MEMBERS. EDWARD E. JOHNSON, St. Paul, Minn. Filed Mar. 25, 1929. Serial No. 349,683. 5 Claims. (Cl. 29—148.)



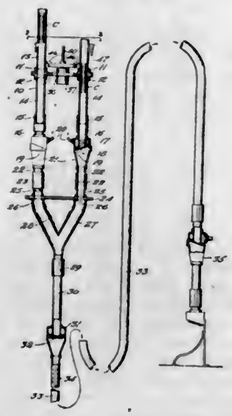
1. The method of making coupling members which consists in providing a pipe section, splitting said section for the greater portion of its length, and separating the split parts to form clasping wings extending from one end of said section to a position comparatively close to the other end of said section.

1,784,967. SINGLE SELECTOR RELAY FOR PNEUMATIC-TUBE SYSTEMS. WILLIAM V. MCGUINNESS, Flushing, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Sept. 17, 1929. Serial No. 393,244. 9 Claims. (Cl. 243—16.)



1. A single selector relay for pneumatic tube systems including a casing, a drum in said casing mounted for oscillatory movement therein, said drum being provided with a carrier receiving pocket, an inlet tube leading to said casing and positioned for alinement with the pocket in one position of the latter, said casing having a pair of outlets arcuately spaced from said inlet tube and with which said pocket is alined successively, a carrier having a selector collar at one end, means fixed to the casing for engaging said collar upon the pocket being alined with the first of said outlets, said means terminating short of the second outlet, and means to effect oscillation of the drum in the casing.

1,784,968. PNEUMATIC-TUBE SYSTEM. WILLIAM V. MCGUINNESS, Flushing, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Jan. 20, 1930. Serial No. 422,195. 7 Claims. (Cl. 243—6.)



1. In a pneumatic tube system, a plurality of transmission tubes, a collector chute to which said tubes lead, a single tube leading from said chute, and means governing the passage of carriers through the plurality of tubes and arranged to permit carriers from only one tube to enter the chute at a time.

1,784,969. TOP FOR DESKS AND THE LIKE. RAYMOND H. MCLEOD, Laurel, Miss., assignor to McLeod Furniture Company, Laurel, Miss., a Corporation of Mississippi. Filed Jan. 5, 1928. Serial No. 244,588. 1 Claim. (Cl. 20—91.)



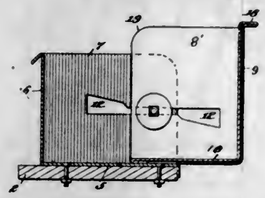
A fabricated three ply panel comprising a sheet of the long fiber, grainless composition produced by the high compression of steam-exploded wood, reinforcing members below said sheet and in the form of wooden strips of uniform thickness spaced apart within limits which will require a minimum of material while leaving no part of said sheet unsupported through an area great enough to permit a flexure sufficient to overcome the elastic limits of said sheet, a second sheet similar in size and composition to said first sheet below said reinforcing members, the whole united by glue and pressure into a unitary structure.

1,784,970. ATTACHMENT FOR HOLDING PICTURES AGAINST POCKET MIRRORS. BERT CLARKE MELTON, London, England. Filed Mar. 4, 1927. Serial No. 172,895. 1 Claim. (Cl. 40—156.)



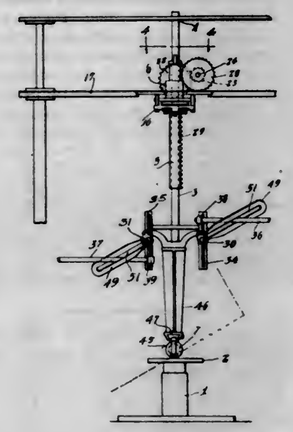
In combination with a pocket mirror having a back, and a yieldable flange disposed at right angles to said back, a sheet of transparent material, said material and said back adapted to embrace a picture therebetween, the face of the picture being against the transparent material, a ring having a rigid flange releasably engaging said yieldable flange, and another flange integral with said rigid flange and disposed at right angles to the latter for gripping the outer marginal portion of the transparent material together with a picture.

1,784,971. LUGGAGE CARRIER FOR AUTOMOBILES. MERRILL MOORE, Creston, Iowa. Filed Mar. 16, 1928. Serial No. 262,096. 7 Claims. (Cl. 280—164.)



1. A box-like luggage carrier fixedly secured to the running board of an automobile, comprising two members of right-angle shape in cross-section adjustably, extensibly and pivotally secured together at each end thereof, one member forming the top of said carrier being adapted to form a step upon the said running board when rotatably adjusted upon the other member.

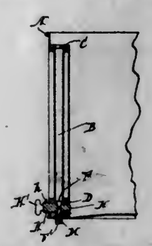
1,784,972. MACHINE FOR FORMING SCREW PROPELLERS. WALTER F. NEWBROUGH, Wilmington, Calif., assignor of one-half to William Lamble, Wilmington, Calif. Filed May 28, 1928. Serial No. 281,304. 11 Claims. (Cl. 90—11.)



1. In a device of the class described, the combination of a work support, a thread turning machine, a working tool, a track, means operably connecting the thread turning machine with said track, means for supporting said tool from said track, a radius arm adjustably mounted at an angle to said track, and means operably connecting said tool with said radius arm to maintain said tool in position substantially perpendicular to each pitch angle of the thread segment being formed.

5. In a device of the character described, the combination of a vertical rod, a sleeve and rack gear on said rod, means for moving said sleeve on said rod when said sleeve is angularly displaced thereon, said means including a rack gear carried by the sleeve, a fixed horizontally disposed gear segment, a horizontally movable gear train adapted to maintain said rack and segment in operative contact, a cutting tool support attached to said sleeve, comprising a threaded shaft and a guide rod extending radially from said sleeve and parallel to each other, a radius rod extending from said sleeve, means for positioning said radius rod at a predetermined angle with said shaft and guide rod, a lever slidably mounted on said guide rod and adapted to cooperate with said radius rod, a cutting tool suspended from said lever, and means operated by rotation of said shaft for moving said lever and cutting tool suspended therefrom longitudinally upon said rod and shaft.

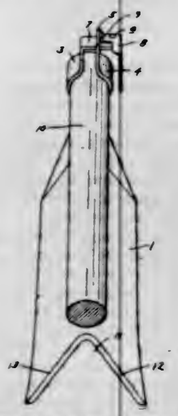
1,784,973. MILK MEASURING AND SAMPLING MEANS. ROBERT PRESTON, Gisborne, New Zealand. Filed June 6, 1922, Serial No. 566,320, and in New Zealand July 25, 1921. 3 Claims. (Cl. 73—21.)



2. In liquid measuring appliances, in combination, a measuring vessel having a vertical indentation in the

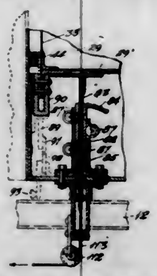
side of the vessel, a vertically extending backing-plate joined to the side edges of said indentation and to the bottom of said vessel, a block secured between the wall of the vessel and between the upper end of said backing-plate, a gauge glass lying in said indentation and having its upper end fitted into said block, said block having a port therein providing communication between said gauge glass and the interior of said vessel, another block secured between said wall and the lower end of said backing-plate, said block being adapted to receive the lower end of said gauge glass said lower block having a bore formed to extend through it, and port passages opening from the bore respectively upwards into the bottom of gauge glass, downwards outside the vessel and sidewards into the inside of the vessel, and a valve plug fitted into said bore and formed with passages through it designed and so positioned as to connect the side port with the upwardly extending port when the plug is in one position, and to close the side port and to connect the upwardly and downwardly extending ports, when in a second position, substantially as and for the purposes set forth.

1,784,974. CULTIVATING DEVICE. BENJAMIN M. ROLPH, Dixon, Ill. Filed Jan. 12, 1928. Serial No. 246,111. 1 Claim. (Cl. 306—26.)



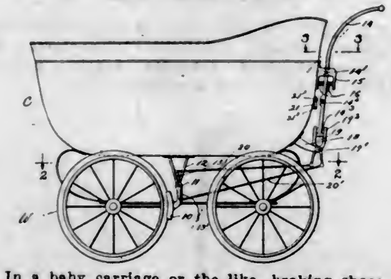
In a fastening device for a cultivating tool, the combination with a pair of connected tool supporting plates in parallel relation with each other, of a pair of of semi-circular socket members projected from said plates, one of said members having a transverse slot, and the other member being provided with an angular tongue passing through said slot, and a cam lever attached to the end of said tongue and bearing against the slotted member.

1,784,975. VEHICLE BODY. ARON ROSMAN, Brooklyn, N. Y. Filed Apr. 19, 1929. Serial No. 356,526. 2 Claims. (Cl. 296—1.)



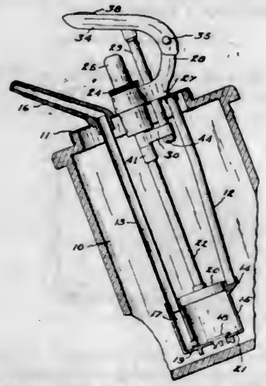
1. In a device of the kind described, a main frame having a bottom plate, a pair of angle bars extending up from the main frame and having juxtaposed vertical legs, one of said angle bars being spread forwardly from the other, the forward angle bar having its vertical leg projecting above the vertical leg of the rearward angle bar, a latch member slidable vertically between said vertical legs and having a notch extending transversely of the main frame along its upper edge, said latch member having a curved striker flange projecting rearwardly from its edge and overhanging the rearward angle member, spring means normally holding the latch member raised, a body movable horizontally onto and off of said main frame, and an angle member fixed to the under side of the body transversely thereof and provided with a vertical leg engaging the striker flange to depress the latch, said last vertical leg having its lower edge engaged in said notch upon movement into alinement therewith by elevation of the latch member under influence of the spring means.

1,784,976. BABY CARRIAGE OR THE LIKE. ALFRED SCHNABEL, New York, N. Y. Filed July 20, 1928. Serial No. 294,102. 5 Claims. (Cl. 188—20.)



3. In a baby carriage or the like, braking shoes tending to normally occupy the operative position, a handle bar pivoted to the carriage, springs tending to hold said handle bar in neutral position, a pair of forceps like elements pivoted to the carriage and engaging between the lower end of said handle bar, a pair of oppositely directed arms operatively connected to each brake shoe, and connecting means between said arms and said forceps like elements, whereby when said handle bar is moved out of its neutral position the brake shoes will be released.

1,784,977. SYRUP PUMP. DEAN C. SEITZ, Cleveland, Ohio, assignor to The Russ Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 5, 1929. Serial No. 337,694. 12 Claims. (Cl. 225—35.)



1. In a syrup dispensing pump, a plunger, a plunger rod connected thereto, a push rod offset from and rigidly connected to said rod, and a hinged operating lever having unconnected sliding engagement with said push rod for actuating said plunger.

1,784,978. TESTING APPARATUS. HUGH S. TAYLOR, Jackson Heights, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 23, 1929. Serial No. 357,369. 12 Claims. (Cl. 179—175.)



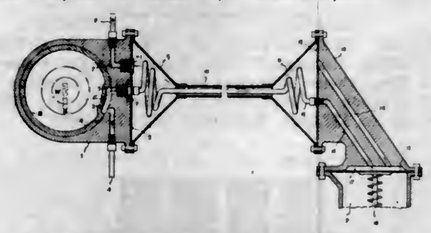
1. An electrical connecting device adapted to connect testing apparatus to terminals on a cord shelf and having supported on a handle member a plurality of aligned terminal connecting members and other terminal connecting means not in alignment with and movable with respect to the said aligned members.

1,784,979. HOLDER FOR SIFTER-TOP CANS OR PACKAGES. LILLIAN S. WITHERSPOON, San Francisco, Calif. Filed Nov. 10, 1928. Serial No. 318,530. 1 Claim. (Cl. 221—61.)



A holder for sifter top cans comprising an elongated container adapted to receive and snugly fit a sifter top can, an integral, shallow, hook-shaped, inwardly and downwardly turned flange on the upper end of the container engageable with the upper end of the sifter top can and leaving the top of the sifter top can exposed, the exterior surface of the can fitting against the holder contiguous to the side walls thereof, whereby the can is firmly held by the side walls against lateral movement, and a bottom on the container engageable with the lower end of the sifter top can to retain the same in firm engagement with the said flange on the upper end of the container.

1,784,980. FLUID-CONDUIT DEVICE. EDWARD C. ADAMS, Washington, D. C. Filed July 2, 1928. Serial No. 289,853. 5 Claims. (Cl. 103—202.)



1. In a fluid conduit device, the combination of a conduit connected with a fluid supply source; a conduit connected with a fluid supply discharge; a pump interposed between said conduits; locking means in a casing interposed between said pump and one of said conduits; and a valve of said pump disposed in said casing.

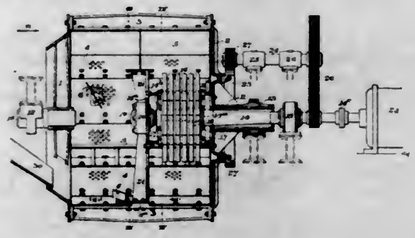
1,784,981. SEPARATOR PLATE. ABRAHAM SIDNEY BEHRMAN, Chicago, Ill. Filed Feb. 11, 1929. Serial No. 339,269. 12 Claims. (Cl. 136—146.)

12. A new composition of matter, consisting of silica gel mixed with a binder.

1,784,982. CURING MASSECUITE. JULIEN BERGÉ, Tirlemont, Belgium, assignor to Raffineric Tirlemontoise Societe Anonyme, Tirlemont, Belgium, a Corporation. Filed Feb. 11, 1927, Serial No. 167,595, and in Germany July 24, 1926. 4 Claims. (Cl. 127—58.)

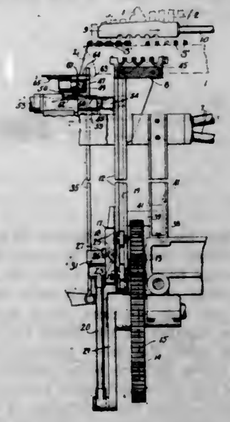
1. A process for increasing the yield of sugar crystals from any kind of massecuite which comprises boiling the massecuite, cooling to a pasty condition, and then separating the mass into sugar crystals and syrup by means of a centrifuge, in which the centrifugal force is considerably more than 800 times the weight of the mass to be separated.

1,784,983. COAL BREAKER. GEORGE W. BORTON, New Lisbon, N. J., assignor to Pennsylvania Crusher Company, New York, N. Y., a Corporation of New York. Filed Aug. 31, 1929. Serial No. 389,771. 10 Claims. (Cl. 83—52.)



1. In a crushing structure, the combination of a rotating cylinder having a foraminous wall, means for rotating said cylinder, lifting means extending longitudinally of said cylinder internally of the same whereby material introduced therein may be lifted for gravitational discharge to the lower portion of the cylinder for fracture and subsequent discharge through the foraminous wall, means for carrying such material forward in the cylinder, and independently operated hammer mechanism disposed at one end of the chamber.

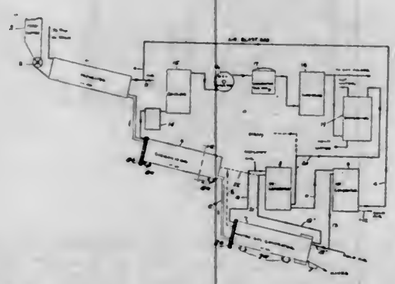
1,784,984. LACING MACHINE. HOWARD D. COLMAN, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a Corporation of Illinois. Filed Apr. 23, 1928, Serial No. 272,029. Renewed Mar. 10, 1930. 15 Claims. (Cl. 28—21.)



1. In a skein-lacing and lace-tying mechanism, the combination of a vertically reciprocatory structure having channels therein, lacing members reciprocable in said channels, a tube fixed to said structure and communicating with said channels, a stationary knotter compris-

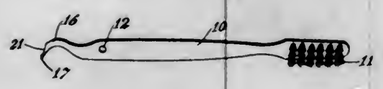
ing a rotary tying bill, two guide plates above the tying bill and a rotary stripper disk between said plates, a suction conduit below said tying bill and arranged to register with said tube in one position of the latter, the upper walls of said tube and conduit being longitudinally slotted to permit the suction current to draw the ends of the lacing from said channels and through said slots into operative relation to said tying bill and plates, and a reciprocatory member arranged to control the slot in the suction conduit to time the movement of the ends of the lacing into operative relation to the tying bill.

1,784,985. APPARATUS FOR GASIFYING COAL AND THE LIKE. CALEB DAVIES, Jr., Poland, Ohio. Filed May 31, 1922. Serial No. 564,689. 5 Claims. (Cl. 48—73.)



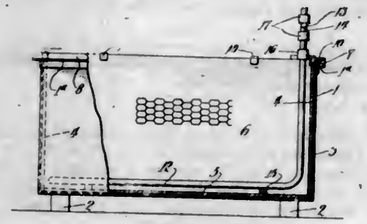
1. Apparatus for complete gasification of solid fuel, comprising a rotary water-gas generator; a carbonizer thereabove connected to receive hot water-gas therefrom and supply carbonized residue thereto, said carbonizer being inclined and having a rotary mounting whereby to continuously lift and drop the fuel through the hot gas stream; a fuel preheater; and a connection between said preheater and said carbonizer.

1,784,986. TOOTHBRUSH. SIMON EISENBERG, Savannah, Ga. Filed Feb. 1, 1929. Serial No. 336,680. 7 Claims. (Cl. 132—89.)



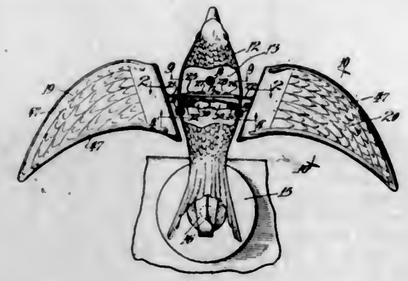
7. A relatively flat tooth brush handle having a comparatively rigid pointed curved end, said end having four surfaces that converge to form the point, the inner surface being substantially normal to the plane of the curve and concave, the two side surfaces being comparatively flat and converging together at the point and converging towards each other from the inner surface towards the outer surface, the outer surface being substantially normal to the plane of the curve and being provided near the point with a concave portion that conforms to the general convexity of the forward (mesial) surfaces of the back teeth, and which permits the pointed end to be easily inserted between the teeth and provides concave scraping edges fitting the convexity of the mesial surface of teeth where the side surfaces of the end join this concave portion.

1,784,987. TANK FOR CHROMIUM PLATING. C. ROY GLEASON, Chicago, Ill. Filed June 3, 1927, Serial No. 196,169. Renewed Mar. 14, 1930. 2 Claims. (Cl. 204—5.)



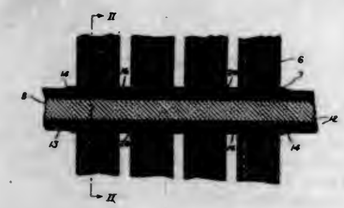
1. A tank for containing the electrolyte for use in the electro-deposition of chromium, comprising a container composed of any suitable material and a lining of lead and then lined with glass.

1,784,988. MECHANICAL RADIATOR ORNAMENT. CHARLES L. HAWES, Chicago, Ill., assignor of one-half to Christopher Strassheim, Chicago, Ill. Filed May 7, 1930. Serial No. 450,398. 5 Claims. (Cl. 46—40.)



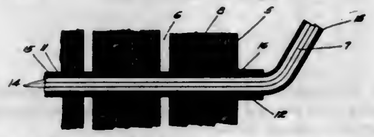
1. A device of the character described comprising a casing, a pair of coacting gear members pivotally mounted within said casing, a pair of links journalled in said gear members, a pair of wings secured to said links, a finger portion on each link, and a second pair of coacting gear members adapted to engage said finger portions to cause oscillation of said links, said second pair of gear members mounted substantially coaxially with said first mentioned gear members.

1,784,989. ELIMINATION OF CORONA IN ALTERNATORS. CHARLES F. HILL, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 11, 1927. Serial No. 182,612. 7 Claims. (Cl. 171—206.)



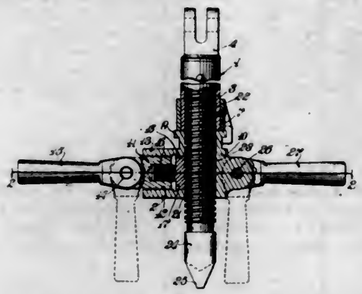
1. The combination with the core of a dynamo-electric machine, of an armature conductor embedded therein and having solid insulation therearound and a coating of a conductive high-resistance material integrally united to the surface thereof entirely covering the portion which is intended to lie within the armature core with which the conductor is to be used, said coating having sufficient conductivity to permit the flow of currents such as to introduce appreciable losses, but the resistance of said coating being sufficiently high that said losses are very small as compared to the ordinary copper losses in the armature.

1,784,990. CORONA ELIMINATION IN DYNAMO-ELECTRIC MACHINES. CHARLES F. HILL, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 3, 1928. Serial No. 258,750. 15 Claims. (Cl. 171—206.)



10. In a high-voltage dynamo-electric machine of the type having insulated armature conductors having coil sides lying in slots and end connections extending out of the slots at the end of the core, means for preventing corona on the end connections near said core, comprising a damping layer of a leaky insulating substance intimately surrounding the insulation on each of said end turns for a predetermined distance, one end of said damping layer being grounded on the core, said damping layer having a very small capacity current induced therein by condenser action from the armature conductor, the length and resistance of the damper layer being such that the potential gradient along the layer is below the value at which corona will appear along the layer itself, and the voltage between the free end of the layer and the conductor is below the corona voltage for the particular conditions existing at this point.

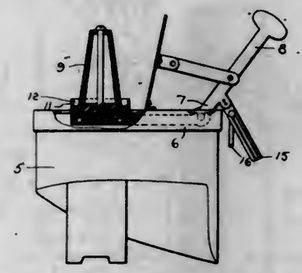
1,784,991. ADJUSTABLE JACK. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed July 20, 1928. Serial No. 294,092. 8 Claims. (Cl. 254—98.)



1. An adjustable jack comprising a tubular body, an adjusting screw telescopically arranged therein, and means for effecting adjustment of said screw relative to said body comprising a housing member rotatably mounted on said body and having a lateral recess, a nut slidably mounted in said recess and engageable with said screw, means for adjusting said nut into and out of engagement with said screw, and means for rotating said body, said body and screw being capable of free telescopic movement when said nut is out of engagement with said screw.

1,784,992. ICE-CREAM-CONE COATER. OTTO LANGE, Chicago, Ill. Filed Aug. 13, 1925. Serial No. 49,955. 4 Claims. (Cl. 91—4.)

1. A coating device comprising a casing adapted to hold the coating material, a cover for said casing, a lever pivotally associated with the cover and with one end projecting into said casing and the other end projecting outwardly, and a coating member fixed to the inwardly projecting lever end and adapted to be revolved upwardly

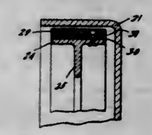


by said lever, said coating member having an annular flange projecting horizontally outwardly from its inner end and a second annular flange projecting from the periphery of said first mentioned flange towards the outer end of the member.

1,784,993. WATER-RESISTANT FIBER PRODUCT AND PROCESS OF MANUFACTURE. WILLIAM H. MASON, Laurel, Miss., assignor to Masonite Corporation, Laurel, Miss., a Corporation of Delaware. Filed May 12, 1928. Serial No. 277,382. 5 Claims. (Cl. 92—21.)

1. A process for producing a water resistant fiber product which comprises the agitating of unsized vegetable fiber pulp in a water bath containing water greatly in excess of the fiber content and free, undissolved paraffin or equivalent hydrocarbon having a melting point of about 125° F. in the proportion of ½ to 10% of paraffin to the weight of dry fiber, maintaining said water bath at a temperature sufficient to prevent congealing of the hydrocarbon material during such agitating and separating the free water from said pulp.

1,784,994. BRAKE LINING. FRED C. MORRIS, San Francisco, Calif. Filed Oct. 5, 1928. Serial No. 310,471. 11 Claims. (Cl. 188—259.)

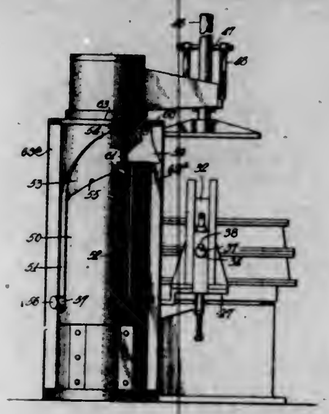


1. In combination, a brake element provided with a supporting surface, a brake lining for said surface, and a strip of material separating said lining from said surface, said strip comprising a relatively non-stretchable element and a resilient element integrally secured together.

1,784,995. MOLDING MACHINE. THOMAS O. MORRIS, Easton, Pa., and JOHN J. LAWLOR, Plainfield, N. J., assignors to Automatic Molding Machine Corporation, Dover, Del., a Corporation of Delaware. Filed Mar. 12, 1929. Serial No. 346,352. 13 Claims. (Cl. 22—26.)

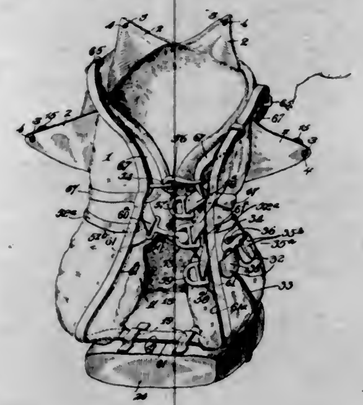
8. In a molding machine, a carrier adapted to reciprocate vertically and swing angularly about a vertical axis, a cam formed with two angularly spaced vertical grooves and an inclined transverse groove connecting the vertical grooves at their upper ends, a pin on the carrier adapted to ride in said grooves and control the angular position

of the carrier, said transverse groove guiding a pin from one vertical groove to the other, upon one vertical rise



of the carrier, and a trigger operating to guide the pin out of the latter groove and into the transverse groove upon the next vertical rise of the carrier.

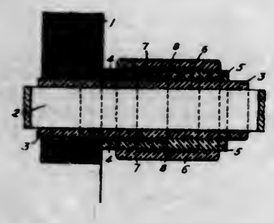
1,784,996. PADDED UPHOLSTERY, HARNESS, AND PACK FOR AIRCRAFT CHAIRS. JAMES FLOYD SMITH, Trenton, N. J., assignor to Switlik Manufacturing Company, Inc., Trenton, N. J., a Corporation of New Jersey. Filed Apr. 3, 1929. Serial No. 352,225. 20 Claims. (Cl. 224—21.)



12. In a device for the purpose indicated, an upholstery and harness for aircraft passengers, the upholstery being tufted, well padded and adapted as a padding between the wearer's body and the harness, as well as conforming to and detachably secured to the back of a chair and constituting an upholstery for the chair.

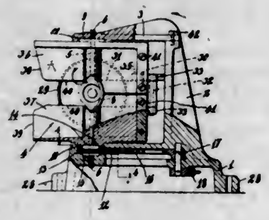
1,784,997. CORONA ELIMINATION IN DYNAMO-ELECTRIC MACHINES. MORITZ SCHENKEL, Berlin-Charlottenburg, Germany, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 13, 1929, Serial No. 370,602, and in Germany July 2, 1928. 3 Claims. (Cl. 173—318.)

3. In electrical apparatus, a high-voltage conductor having an insulating covering, a conductive coating surrounding said covering and grounded to said apparatus, means for preventing the formation of corona at the edge of the said grounded coating comprising a semi-conductive



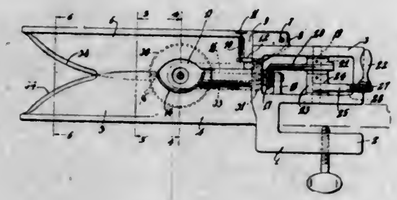
shield embedded in insulating material, said shield surrounding said coating near its edge but concentrically and insulatingly spaced therefrom.

1,784,998. FRUIT PITTER. EARL R. ANDERSON, Los Angeles, Calif., assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif., a Corporation of California. Filed Feb. 6, 1926, Serial No. 86,423. Renewed Mar. 14, 1930. 18 Claims. (Cl. 146—28.)



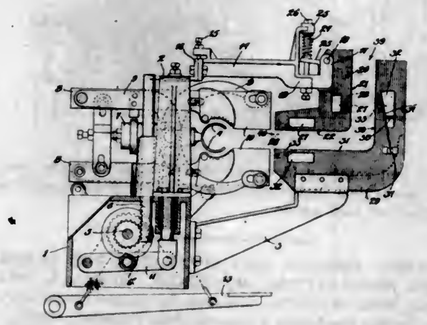
1. In a fruit pitter, the combination of an impaling blade upon which the fruit is adapted to be impaled, pitting means operably connected with the impaling blade and adapted to pass into the incision formed in the fruit during the impaling operation, and means for rotating the impaling blade relative to the said pitting means to sever the fruit from the pit.

1,784,999. FRUIT-PITTING APPARATUS. EARL R. ANDERSON, Los Angeles, Calif., assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif., a Corporation of California. Filed Feb. 6, 1926. Serial No. 86,424. 9 Claims. (Cl. 146—28.)



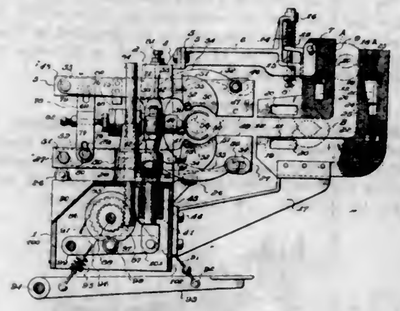
1. In a fruit pitter, the combination of a fixed impaling blade, a movable impaling blade, means for moving the movable impaling blade toward the fixed impaling blade, a curved pitting knife, and means for effecting relative movement between the said knife and impaler blades.

1,785,000. APPARATUS FOR FEEDING, TRIMMING, AND CUTTING FRUIT PREPARATORY TO REMOVING THE PIT THEREFROM. ARTHUR L. DUNCAN, Oakland, Calif., assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif., a Corporation of California. Filed Oct. 7, 1925. Serial No. 60,973. 15 Claims. (Cl. 146—28.)



1. A device of the class described comprising a support, stationary slicing means mounted on said support forming a guideway for the pit of a fruit, portions of said guideway directing the fruit in angular relation to other portions thereof, for forming a slice in a fruit moved through said guideway.

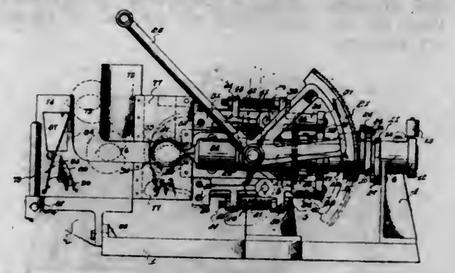
1,785,001. FRUIT-TREATING METHOD AND APPARATUS. ARTHUR L. DUNCAN, Oakland, Calif., assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif., a Corporation of California. Filed Jan. 5, 1926. Serial No. 79,428. 24 Claims. (Cl. 146—28.)



1. That step in the method of seeding or coring a fruit which consists in forming a channel around the fruit to the depth of a central core to be removed by wedging sections of the pulp apart to form a channel and holding the sections apart for the entry of a coring knife.

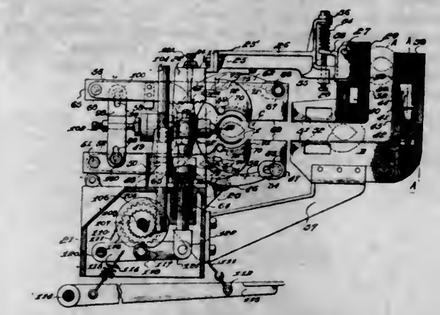
1,785,002. FRUIT PITTING AND CORING APPARATUS. ARTHUR L. DUNCAN, Piedmont, Calif., assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif., a Corporation of California. Filed Mar. 11, 1926. Serial No. 94,025. 32 Claims. (Cl. 146—28.)

1. A peach halving and pitting device including bodily immovable knives spaced apart to permit passage of a pit between them, a portion of one knife being spaced from the other a distance approximating the width of the pit measured in the plane of its suture and another portion of



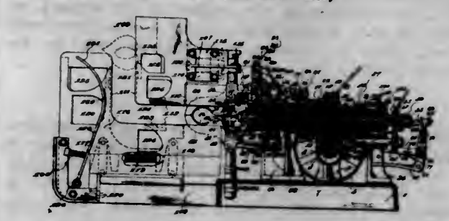
one knife being spaced from a portion of said other knife a distance approximating the length of the pit, measured in the same plane.

1,785,003. FRUIT PITTING AND CORING METHOD AND APPARATUS. ARTHUR L. DUNCAN, Piedmont, Calif., assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif., a Corporation of California. Filed Sept. 28, 1926. Serial No. 138,211. 15 Claims. (Cl. 146—28.)



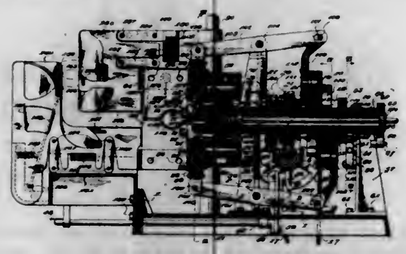
1. The method of pitting peaches which consists in cutting a narrow kerf in the flesh of the peach to expose the suture of the pit, adjusting a severing means to the size of the whole pit in the plane of its suture and then simultaneously cutting both halves of the peach from the whole pit by a revolution of the severing means that ends without crossing the edge of the pit in said plane.

1,785,004. FRUIT PITTING AND CORING APPARATUS. ARTHUR L. DUNCAN, Piedmont, Calif., assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif., a Corporation of California. Filed Nov. 1, 1926, Serial No. 145,530. Renewed May 20, 1930. 18 Claims. (Cl. 146—28.)



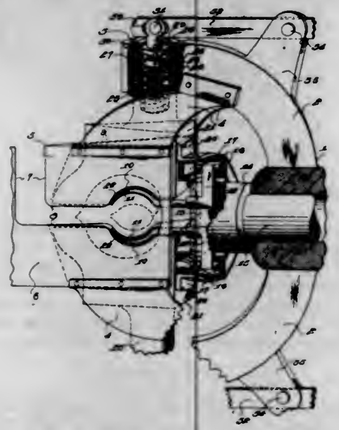
1. In a fruit pitting and coring device, a plurality of curved blades, and frictionally operated means to open and close said blades.

1,785,005. FRUIT PITTING AND CORING APPARATUS. ARTHUR L. DUNCAN, Piedmont, Calif., assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif., a Corporation of California. Filed Nov. 6, 1926. Serial No. 146,754. 51 Claims. (Cl. 146—28.)



1. A fruit coring machine comprising means to form a circumferential recess in the fruit to a depth of a core to be removed, oppositely disposed knives curved to approximate the outline of the pit, means to adjust and center said knives on said core and means to cause said knives to follow a determined non-circular path.

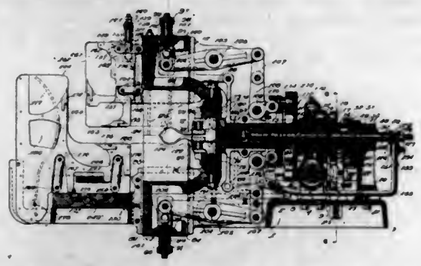
1,785,006. FRUIT PITTING AND CORING METHOD. ARTHUR L. DUNCAN, Piedmont, Calif., assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif., a Corporation of California. Filed Nov. 22, 1926. Serial No. 150,082. 1 Claim. (Cl. 146—28.)



The method of cutting a substantially whole pit from a peach having the edges of the pit in the plane of its suture exposed, which comprises adjusting the severing means substantially to the outline of the exposed pit edges and then moving said severing means transversely of such edges on a non-circular path unguided by the body of the pit.

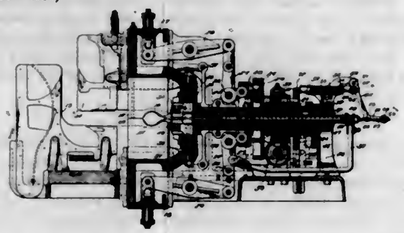
1,785,007. FRUIT PITTING AND CORING MECHANISM. ARTHUR L. DUNCAN, Piedmont, Calif., assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif., a Corporation of California. Filed May 14, 1927. Serial No. 191,334. 21 Claims. (Cl. 146—28.)

1. A fruit coring machine comprising means to form a recess in the flesh of the fruit and to guide the fruit in a substantially predetermined path toward a coring station, a gauge to position the fruit at said coring station, rotatable coring means, mechanism operating in timed relation to withdraw said gauge and to then po-



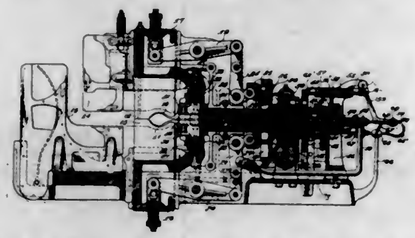
sition and rotate said coring means to remove the core, said mechanism including elements to vary the operative position of said gauge.

1,785,008. METHOD AND APPARATUS FOR CLEARING FRUIT-PITTING MACHINES. ARTHUR L. DUNCAN, Piedmont, Calif., assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif., a Corporation of California. Filed July 30, 1927, Serial No. 209,488. Renewed May 20, 1930. 15 Claims. (Cl. 146—28.)



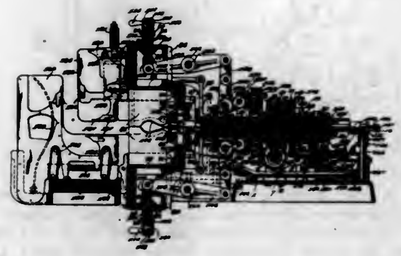
15. In a fruit pitting mechanism, the combination with a pair of rotatable pitting knives arranged to be rotated within a piece of fruit to sever the pit from within the fruit, of a pit remover arranged to be operated in timed relation to the operation of the knives to dislodge the severed pit from the knives.

1,785,009. FRUIT-PITTING MACHINE. ARTHUR L. DUNCAN, Piedmont, Calif., assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif., a Corporation of California. Filed Oct. 24, 1927. Serial No. 228,352. 16 Claims. (Cl. 146—28.)



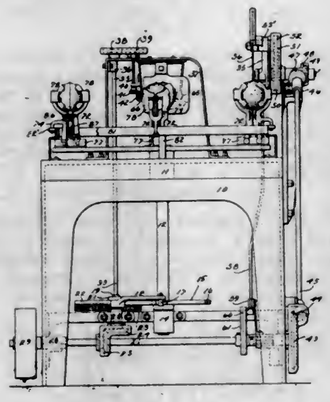
3. A fruit pitting machine of the type that includes rotatable pitting knives arranged to be centered with respect to the substantially intact pit and to rotate about said pit, comprising means to rotate said knives from their initial or centering position to cut the pit from the fruit and to then stop them in said position, means to drive said first named means including an adjustable spring arranged to cushion the movement of said knives through the fruit.

1,785,010. PITTING AND CORING MACHINE. ARTHUR L. DUNCAN, Piedmont, Calif., assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif., a Corporation of California. Filed May 8, 1928. Serial No. 276,154. 21 Claims. (Cl. 146—28.)



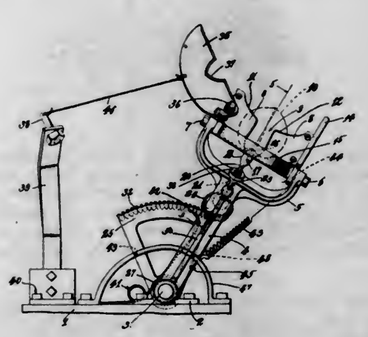
1. In a fruit pitting machine; means for separating the flesh of a fruit to be pitted substantially to the depth of a core to be removed; pitting means adapted to enter between the separated flesh; means for rotating said pitting means; and yieldable means for guiding said pitting means in a predetermined path through the flesh of the fruit to be pitted.

1,785,011. FRUIT-PITTING MACHINE. NARSETE FELIZIANETTI, Los Angeles, Calif., assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif., a Corporation of California. Filed May 13, 1922, Serial No. 560,750. Renewed Mar. 31, 1926. 63 Claims. (Cl. 146—28.)



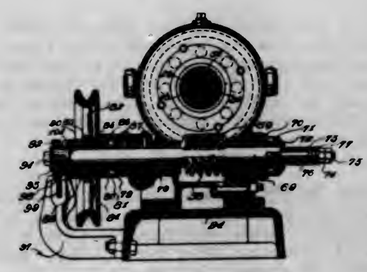
12. In a fruit pitting device, a pair of complementary curved pitting knives mounted upon a single shaft and having their cutting portions arranged on substantially diametrically opposite sides of the shaft, and means providing surfaces with which the flesh of the fruit engages and having an opening through which the knives operate to simultaneously completely sever the pit from the fruit.

1,785,012. FRUIT PITTER. HJALMAR GORANSON and DAVID GORANSON, San Jose, Calif., assignors, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif., a Corporation of California. Filed June 25, 1928. Serial No. 287,992. 19 Claims. (Cl. 146—28.)



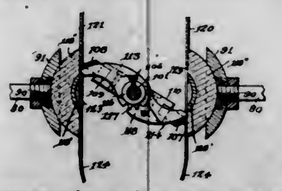
1. In a fruit pitter, the combination of an impaling blade having a pit receiving recess therein, a pitting member, means for actuating the impaling blade to thrust the pitting member around the pit of the fruit, and means for rotating the pitting member to cut the pit from the flesh of the fruit.

1,785,013. FRUIT-PITTING AND CORING MACHINE. WILSON W. HAVENS, Oakland, Calif., assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif., a Corporation of California. Filed Nov. 25, 1927, Serial No. 235,623. Renewed Aug. 19, 1930. 7 Claims. (Cl. 146—28.)



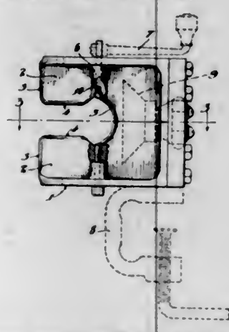
1. A fruit pitting machine of the type that includes a rotatable pitting knife arranged to turn about the pit, comprising a drive shaft adapted to impart rotation to said knife, a worm wheel carried by said shaft, a second shaft, a worm secured to said second shaft and adapted to mesh with said worm wheel, a driving pulley loosely mounted on said second shaft, co-operating clutch members carried by said second shaft and said driving pulley respectively, and yieldable means carried by said second shaft to urge it yieldingly toward said pulley whereby upon said pitting knife encountering an obstruction said second shaft is permitted to move relative to said pulley to disengage said clutch members, said yieldable means being arranged adjacent an end of said second shaft and including accessible means to adjust the yielding effect thereof.

1,785,014. FRUIT PITTER. HAL W. NORGAARD, Burbank, Calif., assignor to Pacific Machinery Company, San Francisco, Calif., a Corporation of California. Filed Mar. 30, 1925. Serial No. 19,392. 13 Claims. (Cl. 146—28.)



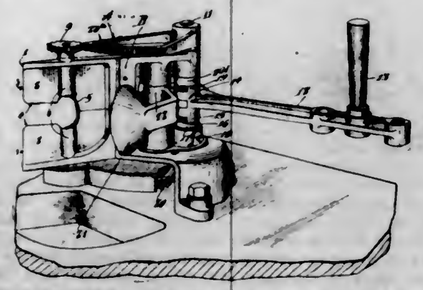
2. A pit remover for a fruit pitting machine, said pit remover including a shaft having a feeler mounted thereon, a curved knife adapted to engage said feeler, said knife being flexible, said knife being mounted to move independently of said feeler, the curvature of said knife being altered when it is engaged by said feeler.

1,785,015. FRUIT PITTER. ALBERT R. THOMPSON, San Jose, Calif., assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif., a Corporation of California. Filed Oct. 14, 1925. Serial No. 62,377. 3 Claims. (Cl. 146—28.)



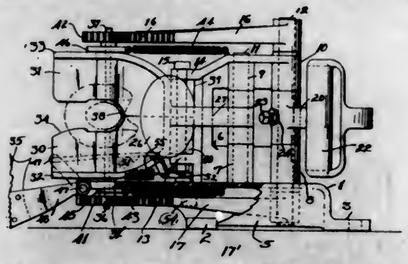
1. In a fruit pitter, impaling means for cleaving the flesh of the fruit and leaving the pit intact, pitting means on said impaling means and adapted to pass around the intact pit and sever the same from the flesh of the fruit, and means for maintaining the second half of the fruit on the blade after the first half of the fruit has been severed from the pit.

1,785,016. FRUIT PITTER. ALBERT R. THOMPSON, San Jose, Calif., assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif., a Corporation of California. Filed Feb. 2, 1926. Serial No. 85,513. 19 Claims. (Cl. 146—28.)



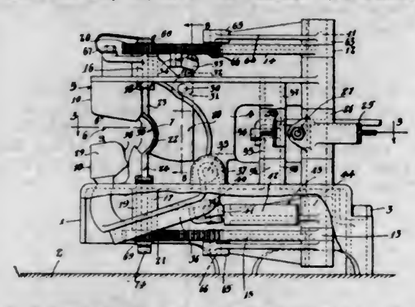
1. In a fruit pitter, a curved knife for cutting the flesh of the fruit from the pit and means for rotating the knife from both of its ends simultaneously.

1,785,017. FRUIT-PITTING MACHINE. ALBERT R. THOMPSON, San Jose, Calif., assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif., a Corporation of California. Filed Mar. 29, 1926. Serial No. 98,077. 32 Claims. (Cl. 146—28.)



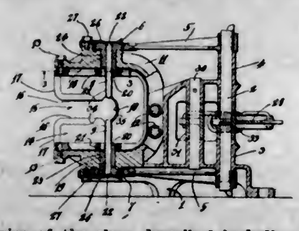
2. A fruit pitting machine comprising a splitting knife having a slot to receive the seed of the fruit, a rotary pitting knife, means to advance said knife when it rotates, means to return said knife to the starting point as it completes its rotation, and means to split the bud end of the fruit near the end of the operation.

1,785,018. FRUIT-PITTING APPARATUS. ALBERT R. THOMPSON, San Jose, Calif., assignor to Pacific Machinery Company, San Francisco, Calif., a Corporation of California. Filed Oct. 30, 1926, Serial No. 145,160. Renewed May 20, 1930. 35 Claims. (Cl. 146—28.)



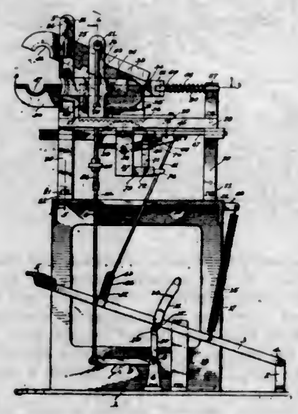
1. A fruit pitter comprising means for halving the flesh of the fruit, a rotary pitting knife having a cutting radius adapted to produce a predetermined depth of cut in the fruit flesh irrespective of the width of the pit, means for rotating the said knife, and means to shift the pit during the rotation of the said knife to permit the knife to pass around the pit.

1,785,019. FRUIT PITTER. ALBERT R. THOMPSON, San Jose, and EARL R. ANDERSON, Los Angeles, Calif., assignors to Pacific Machinery Company, San Francisco, Calif., a Corporation of California. Filed Oct. 1, 1927. Serial No. 223,336. 18 Claims. (Cl. 146—28.)



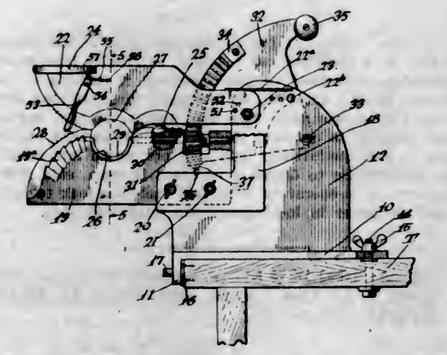
1. A device of the class described including means for halving the fruit, means with said halving means for pitting the fruit, and means for shifting the plane of the halving means during the operation of the pitting means.

1,785,020. CLINGSTONE-FRUIT PITTER. JAMES B. WHIPPLE, Huntington Park, Calif., assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif., a Corporation of California. Filed July 31, 1924, Serial No. 729,316. Renewed Jan. 19, 1927. 5 Claims. (Cl. 146—28.)



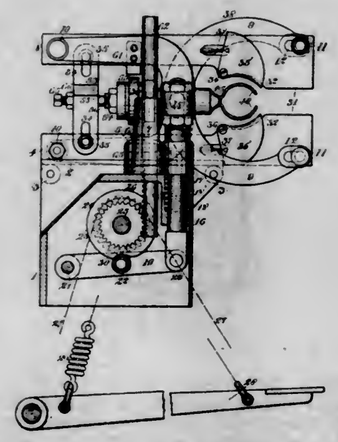
1. A fruit pitter comprising a lower blade rigidly mounted to slide forwardly and backwardly, a second blade pivoted to the first blade and adapted to swing to and from the first blade, said blades being adapted to cut the meat of a peach or the like into two parts and hold the pit, and means having meat spreader edges mounted at the outer sides of the blades and adapted to separate the meat from the pit as the blades are reciprocated.

1,785,021. FRUIT PITTER. JAMES B. WHIPPLE, Huntington Park, Calif., assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif., a Corporation of California. Filed Mar. 4, 1926. Serial No. 92,203. 9 Claims. (Cl. 146—28.)



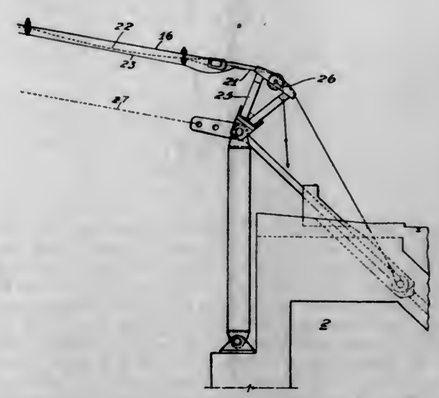
1. A fruit pitter comprising two opposed blades having complementary recesses adapted to cooperate to receive the pit of the fruit, an arcuate knife disposed in one of said recesses, said knife being rotatable upon an axis parallel to the meeting edges of said blades so as to swing into the other recess, and means for rotating said knife.

1,785,022. FRUIT-PITTING MACHINE. ARTHUR L. DUNCAN, Oakland, Calif., assignor, by mesne assignments, to Pacific Machinery Company, San Francisco, Calif., a Corporation of California. Filed Dec. 16, 1924. Serial No. 756,175. 24 Claims. (Cl. 146—28.)



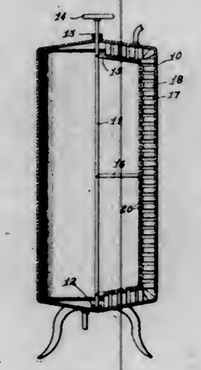
1. A fruit pitting apparatus comprising a base, a spindle rotatably carried thereabove, a pair of curved pitting knives extended outwardly from the end thereof, means for moving the knives longitudinally relatively to the spindle to move their ends to and from each other, and means for revolving the spindle.

1,785,023. BRIDGE-BUILDING APPARATUS. VERE B. EDWARDS, Moon Township, Allegheny County, and GEORGE F. WOLFE, Coraopolis, Pa., assignors to The Dravo Contracting Company, a Corporation of Pennsylvania. Filed Jan. 31, 1930. Serial No. 424,883. 6 Claims. (Cl. 14—23.)



1. Bridge-building apparatus adapted for use in cooperation with bridge towers and two anchorages, such apparatus including adjustable double way-cables, a plurality of carriages movable upon said way-cables, each carriage adapted to receive a cable-strand and provided with a clamp, a messenger line capable of being drawn to and fro over the bridge towers and adapted to engage at one end a cable strand and to draw the cable strand to position between the anchorages and upon the towers, and a back-hauling line adapted to be engaged by the carriage clamps.

1,785,024. BOILER CLEANER. THOMAS D. EVANS, Phoenixville, Pa. Filed Mar. 3, 1930. Serial No. 432,582. 6 Claims. (Cl. 210—206.)



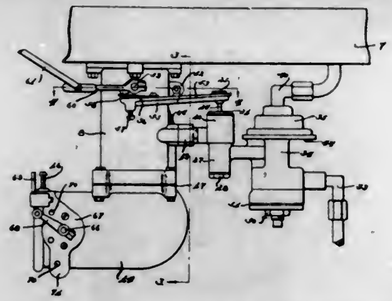
1. A boiler cleaner comprising in combination with a cylindrical boiler, a shaft journaled along the axis within the boiler, arms extending radially from the shaft, a bar carried by the arms extending parallel with the sides of the boiler, continuously similar means carried by the bar and said arms for frictional engagement with the entire inner surface of the boiler, and means to rotate the shaft.

1,785,025. SQUARE TUBING FOR NEWEL POSTS. HAROLD FELSENTHAL, Chicago, Ill., assignor to Guarsteel Safety Stair Co., Chicago, Ill., a Corporation of Illinois. Filed Dec. 2, 1927. Serial No. 237,314. 7 Claims. (Cl. 189—41.)



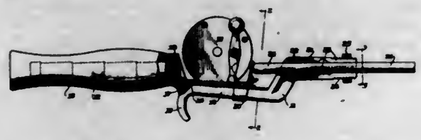
1. A tube of the class described made from a substantially flat steel strip, one surface thereof being provided with longitudinally extending V-shaped grooves, a longitudinally extending thickened portion on the other side of said strip positioned substantially opposite each groove for strengthening the grooved portions of said strip, said strip being bent along said grooves to form a plurality of substantially flat sides angularly disposed to one another, and the lateral edges of said strip being joined to form a hollow unitary structure.

1,785,026. CABURETOR. ARTHUR W. FULWILER, Highland Park, Mich., assignor to The Gwisdalla Floatless Carburetor Corporation. Filed Apr. 30, 1927. Serial No. 187,781. 1 Claim. (Cl. 261—41.)



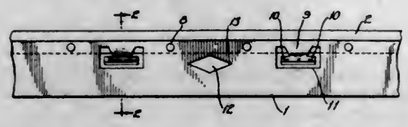
A carburetor of the class described, comprising: a mixing chamber; an arm projecting outwardly to said mixing chamber; a sleeve carried on the outer end of said arm of Venturi bore and communicating through a lateral opening with a passage formed in said arm; a nipple secured to the periphery of said mixing chamber and communicating through its bore and through a passage formed in said mixing chamber with the passage in said arm; a chamber forming member carried on said nipple; a fuel conduit communicating with the chamber in said chamber forming member; a valve for closing communication between said fuel conduit and said passages, said valve being normally slightly open; an additional valve for controlling communication between said conduit and said passages; and a flexible diaphragm, flexible in response to the suction of the engine for raising, upon flexing, said additional valve to open position.

1,785,027. FISHING ROD. HARRY F. GEPHART, Chicago, Ill. Filed June 10, 1929. Serial No. 369,674. 3 Claims. (Cl. 43—22.)



1. In a fishing-rod, the combination of a handle having a seat for a reel-base and a slotted, externally tapered and threaded, apertured portion designed to receive a rod-section in said aperture, an internally-threaded ring fitted over and co-operating with the threads of said portion and adapted to contract said portion on to said rod-section to lock the latter in said aperture, and a lock slidable on said handle to fasten a reel-base thereon, said locked rod-section co-operating with said reel-base lock to maintain the latter in locking relation with said base.

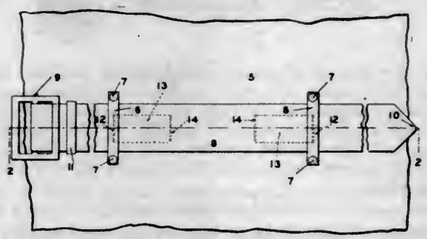
1,785,028. DIVIDING STRIP. ROBERT W. HARDIE, Fanwood, N. J. Filed Apr. 17, 1930. Serial No. 445,025. 2 Claims. (Cl. 94—17.)



1. A dividing strip for use in terrazzo and similar floorings, having a longitudinal series of anchor segments

inclined transversely of the body of the strip from bases located between an outer edge and the central longitudinal line of the strip forming an inner retaining edge opposite the free ends of the anchor segments and provided with ends offset laterally from the body of the segments.

1,785,029. APPAREL COAT. ARTHUR HESSLER, St. Louis, Mo., assignor to The Alligator Company, St. Louis, Mo., a Corporation of Delaware. Filed Aug. 19, 1929. Serial No. 386,874. 2 Claims. (Cl. 2—93.)

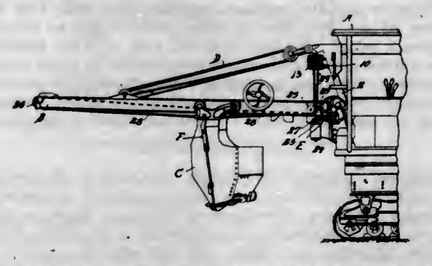


1. An article of the class described comprising a coat body provided with guide straps, a belt sliding in said straps, and a flexible tape interposed between the coat and belt and attached at one end to the coat and at the other to the belt, a portion of said tape between its ends being unattached to either coat or belt to allow relative movement between said parts.

1,785,030. MANUFACTURE OF NITROCELLULOSE. ARTHUR HOUGH, Summit, JOHN ROY DUFFORD, Paterson, and WILLIAM CLELLAND LEONHARD, Passaic, N. J. Filed Aug. 31, 1926. Serial No. 132,906. 8 Claims. (Cl. 260—146.)

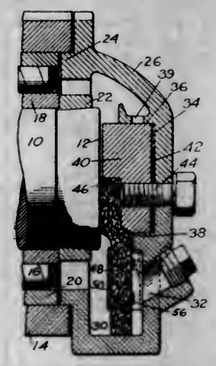
8. Nitrated paper parchment, in a substantially stable condition.

1,785,031. DIRECT BUCKET DRIVE. ERICH H. LICHTENBERG, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed Feb. 12, 1930. Serial No. 427,908. 4 Claims. (Cl. 104—92.)



1. In a paving machine of the class described for distributing concrete aggregates upon a subgrade, in combination, a supporting frame, a boom associated with said frame, pivotal connections intermediate one end of the boom and the frame enabling horizontal and vertical swinging movements of the boom, a bucket to traverse the boom, cable means connected with the bucket to move it in and out on the boom, and an operating unit for said cable means carried by the upper portion of the framework and comprising drive shafting, devices to put said shafting in motion and a cable drum carried by the shafting in a position projecting from the framework so that the drum is arranged above the vertical axis of this boom with the cable means passing therearound in a plane substantially including the said axis, with attaching devices for said unit enabling its bodily removal from the frame.

1,785,032. JOURNAL BOX. PAUL B. LIEBERMANN, Santa Barbara, Calif., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 28, 1926. Serial No. 118,964. 9 Claims. (Cl. 308—41.)



1. In a device of the character described, a journal box, a shaft journalled therein and having a smooth end face, a cap closing the end of the box and having its lower portion enlarged to form a lubricant reservoir, said cap also having a circular recess in line with the end of the shaft, a circular plate fitting in said recess and projecting therefrom to engage the end face of the shaft, said plate having a portion of its projecting face cut away, a wick set in said cut away portion and extending into the lubricant reservoir, and means for holding said circular plate from rotation; substantially as described.

1,785,033. STOCKING PROTECTOR. CURT LORENZ and ELIZABETH BOECHER Pittsfield, Mass., Filed Jan. 24, 1928. Serial No. 249,146. 1 Claim. (Cl. 36—2.)

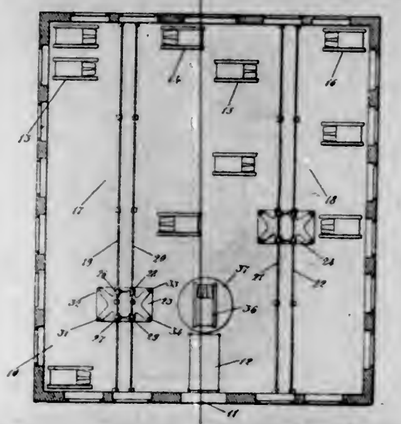


A stocking protector comprising a leg portion of waterproof elastic material reinforced at the top with heavier elastic material, said stocking protector being open at the bottom and provided with a flare of elastic material of heavier material than the body of the stocking protector, said flare being adapted to be turned-up and down, and when turned down adapted to fit snugly the contour of the upper portion of a shoe, and a strap of thin elastic material connected to the leg portion and free of the flare and adapted to fit under the instep of the foot to hold the stocking protector in position.

1,785,034. MEANS FOR HANDLING VEHICLES IN GARAGES. GOTHARD LOWENSTEIN, Brooklyn, N. Y. Filed Nov. 10, 1927. Serial No. 232,298. 5 Claims. (Cl. 214—16.1.)

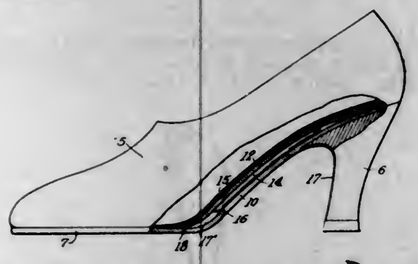
1. In a building for the purpose described the combination, with a storage room, of a trackway running close to the ceiling thereof, a carrier comprising a wheeled

structure running along said trackway, and an elongated vehicle supporting platform depending from said structure, said platform being parallel to and in close proximity to the surface of the floor of said room and being permanent-



ly disposed transversely of the direction of travel of said wheeled structure, and a turn table independent of said carrier, adapted to change the direction of a vehicle to be driven on or off said platform.

1,785,035. TURNED SHOE. FRED MACCARONE, Brooklyn, N. Y., assignor of one-half to Frank Cardone, Brooklyn, N. Y. Filed Mar. 5, 1930. Serial No. 433,242. 6 Claims. (Cl. 36—18.)



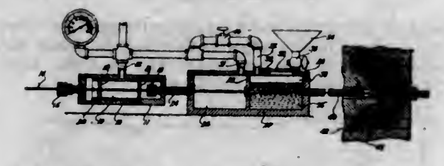
5. A turned shoe having a sole provided with a short tab formed integral therewith near the forward end of the shank of the shoe, a reinforcing flap member having one end joined to said tab and extending therefrom over the shank of the shoe, and a shank piece one end of which rests under said tab and is held against forward movement thereby, and is covered by said flap member.

1,785,036. OSCILLATION GENERATOR. WARREN A. MARRISON, Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 30, 1927. Serial No. 243,604. 4 Claims. (Cl. 171—327.)



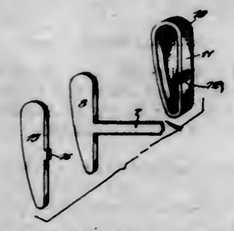
2. A holder for piezo electric resonator comprising a mounting member, two bolts secured thereto, an electrode secured to each said bolt, said electrodes each consisting of bi-metallic elements.

1,785,037. METHOD OF AND APPARATUS FOR COATING CORES. CHARLES MARTELL, Cicero, and BERGER AMANDUS HAGEN, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 20, 1927. Serial No. 214,224. 6 Claims. (Cl. 91—68.)



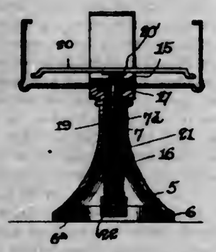
2. The method of continuously applying semi-fluid material to a conductor, which consists in passing the conductor continuously through an evacuated area and through a semi-fluid material adjacent to the evacuated area, and reducing the pressure upon the semi-fluid material to prevent the material from flowing into the evacuated area.

1,785,038. NOSE-GUARD MOUNTING FOR SPECTACLES AND EYEGLASSES. LAURENCE C. MARTIN, Providence, R. I., assignor to Martin-Copeland Company, a Trusteeship consisting of Edgar W. Martin, Barrington, R. I., Laurence C. Martin, Providence, R. I., and George W. Bleecker, Chicago, Ill. Filed July 18, 1929. Serial No. 379,215. 2 Claims. (Cl. 88—48.)



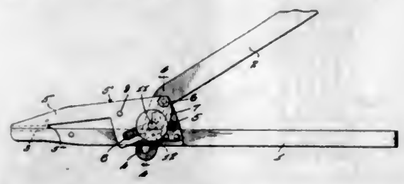
1. A nose-guard for ophthalmic mountings comprising a metallic member formed with a substantially flat head and an arm projecting therefrom for attachment to an eyeglass or spectacle frame, a non-metallic shell comprising a box-like portion enclosing one side and the edges of the head and provided with a slot in its side through which the arm projects, and a cover abutting the opposite side of the head and secured in place within the sides of the box to provide a smooth-surfaced resilient enclosure for that portion of the guard which contacts with the nose of the wearer of the eyeglasses or spectacles.

1,785,039. NAPKIN FIXTURE. WILLIAM P. MCCORKINDALE, South Hadley Falls, Mass., assignor to Specialty Sales Company, Incorporated, Holyoke, Mass., a Corporation of Massachusetts. Filed May 10, 1926. Serial No. 108,109. 4 Claims. (Cl. 311—51.)



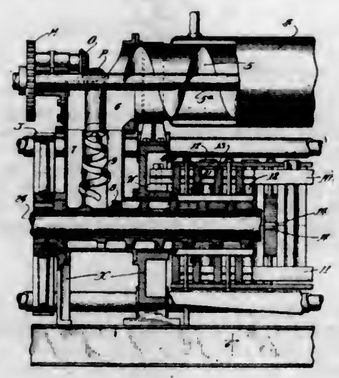
1. A napkin dispensing device consisting of a napkin holding means having four upwardly extending arms provided with inwardly extending spaced terminal stops, and means comprising a tubular member, a plunger therein and a spring in the tubular member engaging the plunger for propelling a stack of napkins against the stops.

1,785,040. VALVE LIFTER. JAMES P. MCCREADY, Berlin, N. H. Filed Jan. 15, 1930. Serial No. 421,026. 4 Claims. (Cl. 29—86.3.)



1. A device of the class described comprising upper and lower handles, an upright fastened to the lower handle intermediate its ends and to which the upper handle is pivoted an appreciable distance from one end, this end of the upper handle having slots therein, a roller having its ends passing through the slots, a jaw member pivoted to the uprights and having a slot therein through which the roller passes.

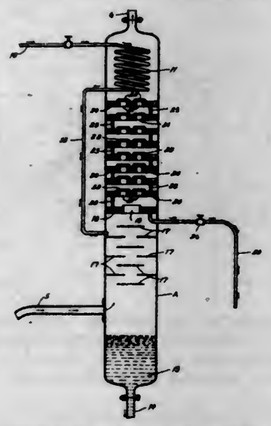
1,785,041. CONTINUOUS SCREW PRESS. WILLIAM MCDONALD, Chicago, Ill., assignor to Swift & Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 1, 1926. Serial No. 138,885. 9 Claims. (Cl. 100—48.)



7. A continuous screw press of the character described and having a cylindrical compression chamber and a screw member arranged to force the material operated upon therethrough and having also a feed chamber in axial alignment with the compression chamber and a feed chute opening transversely into said feed chamber and a spiral feeding member in said feed chute, said screw member extending into said feed chamber and being formed opposite said feeding member with spaced peripheral notches having a crushing action arranged to break up large fragments of material delivered by said feed member to the notched portion of said screw member.

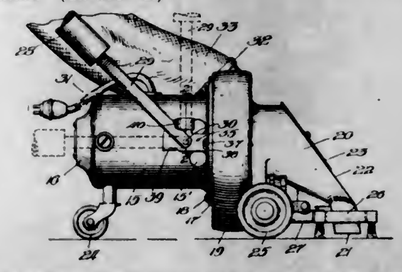
1,785,042. APPARATUS FOR CRACKING HYDROCARBONS. WALTER MILLER, Ponca City, Okla., assignor, by mesne assignments, to Continental Oil Company, Ponca City, Okla., a Corporation of Delaware. Filed June 8, 1927. Serial No. 197,289. 2 Claims. (Cl. 196—99.)

1. In an apparatus for cracking hydrocarbons, a cracking element maintained at a cracking temperature, a dephlegmator receiving the vapors from said cracking element, said dephlegmator comprising a refluxing zone wherein the highest boiling point fraction in said vapors is condensed, and a relatively cool bubbling zone provided with pools of hydrocarbon liquid through which vapors are discharged from said refluxing zone, the vapors from said refluxing zone being passed through said pools of liquid, an inlet device whereby charging stock is delivered



to the reflux condensate formed in said refluxing zone, said inlet device being adapted to prevent the delivery of said charging stock to said bubbling zone, means whereby the mixture of reflux condensate and charging stock is delivered to said cracking element, a storage receptacle, and a discharge device leading from said bubbling zone to said storage receptacle so as to remove the intermediate condensate from the cracking system.

1,785,043. VACUUM-CLEANER-HANDLE MOUNTING. EDWARD MROSS, Racine, Wis., assignor to Hamilton Beach Mfg. Co., Racine, Wis., a Corporation of Wisconsin. Filed Oct. 31, 1928. Serial No. 316,333. 2 Claims. (Cl. 306—4.)

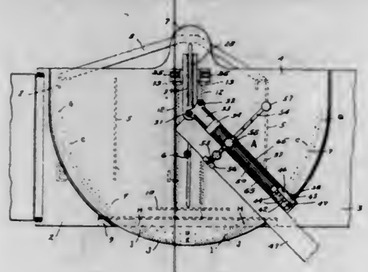


1. A vacuum cleaner having a horizontally disposed pin extending outwardly from each side of the cleaner body, a bracket secured to said body adjacent one of said pins, said bracket consisting of a substantially flat apertured plate member having an outwardly extending, horizontally disposed ear on its lower margin, rearwardly of the aperture in the plate, said pin extending through the aperture of the plate, and a handle having bifurcated arms apertured at their lower ends and pivotally mounted on said pins on the cleaner body in engagement with the outer surface of the bracket.

1,785,044. UNIVERSAL RAFTER-FRAMING MACHINE. JAMES NICKELS, Silvis, Ill. Filed Jan. 21, 1927. Serial No. 162,483. 5 Claims. (Cl. 143—6.)

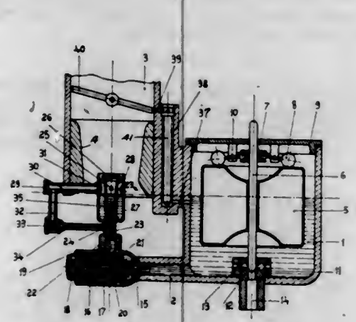
2. In a device of the class described, a saw-table dial provided with a central saw slot, and provided with one

or more series of openings forming arcuate scales, a gage adapted for a pivotal mounting at either side of said slot, and having parallel side faces for the alternative support of a piece of rafter timber in position for being cut, spring-actuated pins for selective engagement with



said perforations, to establish the position of said gage with reference to said saw slot, and a clamping mechanism carried by said gage, capable of adjustment in position to hold a piece of rafter timber to one side or the other of said gage.

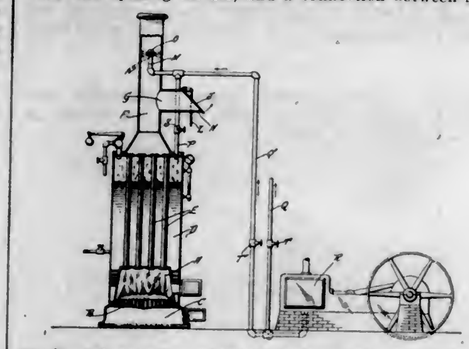
1,785,045. CARBURETOR FOR INTERNAL-COMBUSTION ENGINES. EUGENIO PEDRINI, Turin, Italy. Filed Mar. 14, 1929, Serial No. 347,050, and in Czechoslovakia and Germany Feb. 19, 1929. 6 Claims. (Cl. 261—121.)



1. A carburetor for internal combustion engines comprising, in combination with a constant level chamber, a spray nozzle and a Venturi tube, a cone-shaped distributing tube provided with holes at different heights and being an extension of said spray nozzle, a chamber surrounding said distributor and communicating above with the Venturi tube and means for effecting a compensating action on the fuel delivery in order to ensure a practically constant composition of the mixture in the Venturi tube under varying working condition.

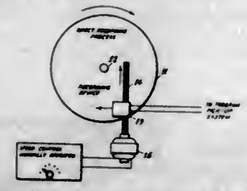
1,785,046. COMBUSTION DEVICE. EDWIN W. PELSTER, St. Louis, Mo. Filed Dec. 3, 1927. Serial No. 237,477. 1 Claim. (Cl. 110—661.)

In combination with a furnace, a flue for the passage of the gases of combustion from said furnace, said flue having an opening in a wall thereof arranged to allow air to flow through said opening into said flue and combine with said gases of combustion, means for controlling the flow of air through said opening, a nozzle positioned in said flue at a point more remote from said furnace than said opening for air, and a connection between said



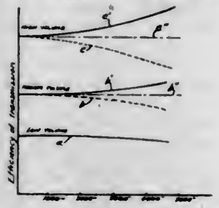
nozzle and a source of steam supply, said nozzle being arranged axially in the flue and formed to deliver steam jets radially and substantially transversely of said flue.

1,785,047. METHOD AND MEANS FOR CUTTING PHONOGRAPH RECORDS. EDWIN JAY QUINBY, Yonkers, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware. Filed Sept. 14, 1927. Serial No. 219,522. 31 Claims. (Cl. 179—100.4.)



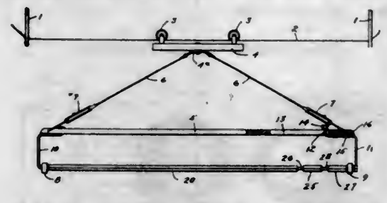
1. The method of cutting sound reproducing grooves in a phonograph record which comprises the steps of rotating the disc about a fixed pivot, subjecting said rotating record to a cutting tool, said cutting tool being responsive to the sound vibrations desired to be recorded, and feeding said cutting tool radially of said disc, the speed of said cutting tool being varied in accordance with the character of the material to be recorded.

1,785,048. SYSTEM FOR ELECTRICALLY TRANSMITTING AND REPRODUCING SOUND. JOHN LOUIS REYNOLDS, Long Island City, N. Y., assignor, by mesne assignments, to Electrical Research Products Inc., a Corporation of Delaware. Filed May 19, 1927. Serial No. 192,616. 7 Claims. (Cl. 178—44.)



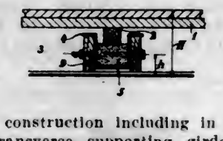
4. In a system for electrically reproducing sounds with the same aural effects as the original sounds, means for translating the sounds into corresponding modulated currents, means for amplifying said currents comprising an electron discharge amplifier having a plurality of stages, means comprising an adjustably tuned circuit for coupling certain of said stages, and means for varying the tuning range of said coupling simultaneously with the gain of another stage of said amplifier to compensate for volume-frequency distortion.

1,785,049. QUILTING MACHINE. JOHN R. RUSSELL, Sterling, Ill. Filed Oct. 3, 1927. Serial No. 223,807. 1 Claim. (Cl. 112—119.)



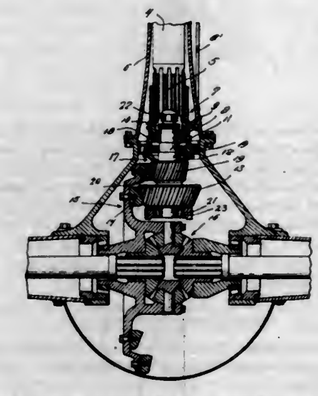
A machine of the class described, comprising a support and carriage movable longitudinally thereof, a bar suspended from said carriage and provided at its ends with hangers, a frame supported at its ends by said hangers, and quilting rollers in said frame provided at one of their ends with one or more sections forming spaced bearings for the support thereof, the hanger adjacent to the section ends of said rollers being adjustable longitudinally of said bar to conform to the adjustments afforded by said sections.

1,785,050. CEILING CONSTRUCTION. ALFRED SCHMID, Vienna, Austria. Filed Aug. 2, 1927, Serial No. 210,139, and in Austria Feb. 15, 1927. 3 Claims. (Cl. 72—66.)



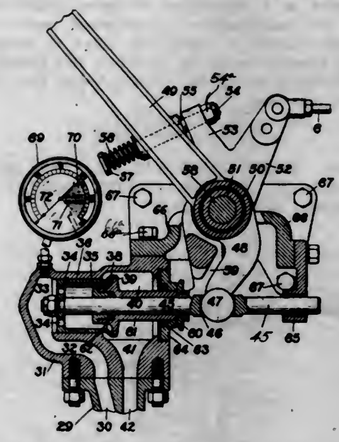
1. A ceiling construction including in combination, a plurality of transverse supporting girders, filling material arranged within and extending throughout the length of the girders, bolsters lying partly in the girders and disposed on and supported by the filling material, spaced horizontal ceiling members supported respectively on the upper surface of the bolsters and on the undersurface of the girders, and horizontally disposed insulating members secured to and continuing from the upper portions of the girders and dividing the space between the ceiling members into two air chambers, substantially as and for the purposes set forth.

1,785,051. POWER TRANSMISSION. JESSE C. SMOOT, Lincolnton, N. C., now by judicial change of name Jess Covington Radnor. Filed July 20, 1927. Serial No. 207,225. 2 Claims. (Cl. 74—58.)



1. In a power transmission construction of the class described, a housing, a pair of axle shafts supported therein, a standard differential mechanism including a driving disc having inner and outer concentric ring gears, a propeller shaft associated with the front end of the housing, a solid driven inner pinion shaft disposed in alignment with said propeller shaft, a pair of longitudinally spaced bearing assemblies in which the opposite end portions of said solid shafts are mounted for rotation, a relatively large pinion gear fastened on said solid shaft and in driving mesh with the inner ring gear, a roller bearing structure mounted in said housing, an outer tubular shaft surrounding and rotatable on said inner solid shaft, said tubular shaft having its front end mounted for rotation in said roller bearings, a relatively small pinion gear carried by the tubular shaft and in mesh with the outer ring gear, an additional roller bearing structure mounted within the front end portion of the tubular shaft, said solid shaft being mounted for rotation in said last-named bearing, said relatively large pinion gear having a recess defining a cavity, and an end thrust bearing arranged in said cavity and receiving the rear end of said tubular shaft, the forward ends of the inner and outer shafts having independent driving teeth, a sliding collar splined for longitudinal sliding motion on said propeller shaft, operating means for adjusting said collar, said collar being provided with internal and external driving teeth adapted to be selectively meshed with the driving teeth of either the inner solid shafts or the outer hollow shaft.

1,785,052. AUTOMATIC BRAKE CONTROL FOR POWER-PROPELLED VEHICLES. EDWIN G. STAUDE, Minneapolis, Minn. Filed Dec. 11, 1925. Serial No. 74,767. 30 Claims. (Cl. 188—152.)



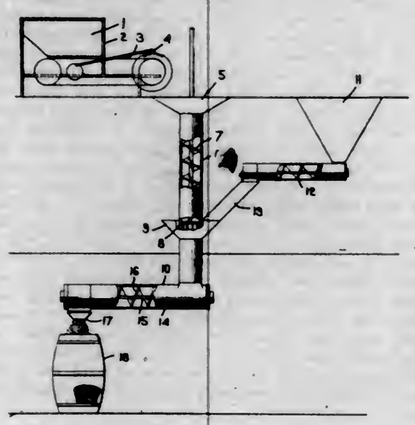
26. A brake control for power propelled vehicles, comprising brake applying means, a pedal, a driven pump having a fluid circulating system, a fixed passage in direct contact with the fluid and through which the circulating fluid flows, relatively movable valve and valve seat elements located within the fixed passage and connections between the pedal and one of the elements and the brake applying means and the other element.

1,785,053. FILLING AND BINDING COMPOSITION. CLEMENT K. STODDER, Brookline, Mass. Filed Apr. 15, 1929. Serial No. 355,426. 3 Claims. (Cl. 106—34.)

3. A powdered filling and binding composition comprising the following ingredients in substantially the following proportions:—

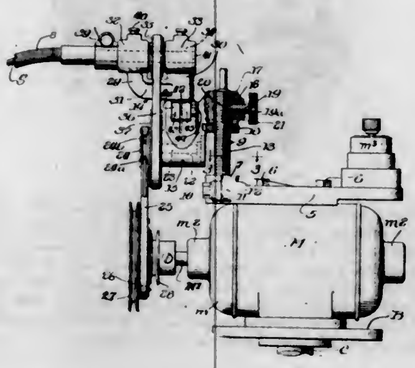
	Parts
Calcined gypsum (plaster of Paris)	32
Dextrine	4
Volcanic ash	4

1,785,054. PROCESS OF PRODUCING SOAP POWDER FROM SOAP STOCK HIGH IN FATTY ACID. CLEMENT K. STODDER, Brookline, Mass. Filed Aug. 28, 1928. Serial No. 302,632. 7 Claims. (Cl. 87—16.)



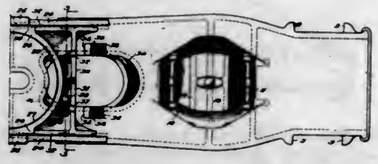
1. A cold process of producing soap powder from a semi-plastic, moisture-containing soap stock which comprises dividing the plastic soap stock into pieces of large surface areas relatively to the mass of said pieces, embedding said pieces in a dehydrated powdered alkali having an affinity for the moisture in said moist soap stock, and aging the mixture to permit the alkali to absorb a substantial proportion of the moisture and thereby render the soap stock brittle and then reducing the mixture to a desired fineness.

1,785,055. DRIVING MECHANISM. NELS A. STRAND, Evanston, Ill. Filed Oct. 15, 1928. Serial No. 312,523. 5 Claims. (Cl. 74—21.)



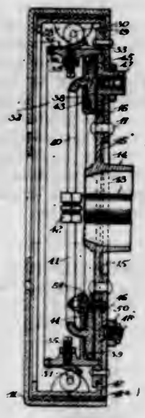
1. In driving mechanism of the character described, the combination of a bracket provided with means whereby it may be attached to the top part of the casing of an electric motor, a stud secured to one end of the bracket and extending upwardly therefrom, a frame adjustably mounted on the stud and provided with a pair of countershafts arranged one above the other, a belt and pulley connection between the rotor shaft of the electric motor and the lower countershaft, and a belt and pulley connection between the two countershafts.

1,785,056. RAILWAY-CAR-TRUCK BOLSTER. THOMAS H. SYMINGTON, Baltimore, Md., assignor to T. H. Symington & Son, Inc., Baltimore, Md., a Corporation of Maryland. Filed Apr. 5, 1927. Serial No. 181,161. 16 Claims. (Cl. 105—200.)



4. In combination, a body bolster having a center plate and depending side bearing elements, a truck bolster having side bearing means cooperating with said depending side bearing elements, means on the truck bolster slidably mounted longitudinally thereof and embracingly engaging said center plate and formed as a ring-like body surrounded by a plate portion having marginal ribs and having diagonal brace webs merging into the ring-like body and into certain of the ribs.

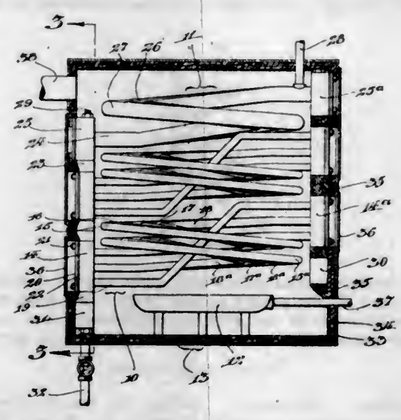
1,785,057. BRAKE MECHANISM. HENRY L. F. TREBERT, Canandaigua, N. Y. Filed Jan. 13, 1926. Serial No. 80,865. 18 Claims. (Cl. 188—152.)



17. In a brake mechanism, the combination of a brake drum, a brake element within the drum, means connected with said brake element for holding it against axial movement within the drum, an annular element mounted within the drum for movement axially thereof, cam means interposed between said annular element and the brake element adapted upon axial movement of said annular element to actuate the brake element and means for actuating said annular element.

1,785,058. BOILER. EARL V. VARCOE, Philadelphia, Pa. Filed May 24, 1927. Serial No. 193,786. 10 Claims. (Cl. 122—50.)

1. A steam generator including a pair of headers; a plurality of tubes extending from one header; making more than a complete turn spirally to form coils, and entering the other header; a plurality of tubes extending



from one header, bending upwardly and forwardly to pass through the coils, and entering the other header; and means for heating the tubes.

1,785,059. CLASP OR FASTENING DEVICE FOR BRACELETS. JULIUS WEISMAN, Providence, R. I., assignor to Plainville Stock Company, Plainville, Mass., a Corporation of Massachusetts. Filed Feb. 8, 1929. Serial No. 338,526. 5 Claims. (Cl. 24—71.)



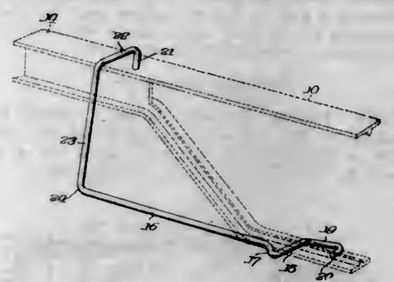
1. In a fastening-device of the character described, a housing provided with an open end, a channel-shaped receptor in the form of a tray slidable within and held against separation from said housing, hinged connecting-members attached to said receptor and foldable therewithin between the sides thereof to maintain them in alinement, and means for normally retaining the receptor and connecting-members telescoped within the housing.

1,785,060. METALLURGICAL PROCESS. JOHN H. WHITE, Cranford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 15, 1926. Serial No. 155,114. 4 Claims. (Cl. 75—1.)

1. The process of treating an alloy of nickel and iron which comprises adding to the nickel-iron alloy while it is in a molten state an amount of another alloy of nickel and a substance having properties similar to those of tantalum, the nickel predominating, said amount being such that said substance will have a mass less than 1% of the total nickel-iron content of the resulting alloy.

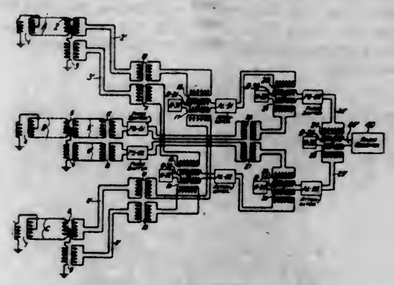
1,785,061. CEILING SUPPORT. WILLIAM E. WHITE, Chicago, Ill., assignor to Kalman Steel Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 21, 1928. Serial No. 263,292. 4 Claims. (Cl. 72—118.)

2. The combination with a truss having upper and lower chords, of a chord extension device consisting of a length of rod bent into substantially a right angle and having hooks formed at its respective ends, the hook at one end having portions adapted to lie below and above a flange of said chord to provide an interlocking



connection that cannot be disengaged without first disengaging the opposite end, the hook on the opposite end overlying the top chord.

1,785,062. TRANSFORMER SYSTEM. HORACE WHITTLE, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 27, 1927, Serial No. 215,863. Renewed June 6, 1930. 20 Claims. (Cl. 250—11.)



1. In combination, a circuit, one or more transformers in said circuit, and one or more other transformers so connected to said circuit and producing in waves transmitted therethrough phase shifts of such magnitude relative to the phase shifts produced by the first mentioned transformers in waves in said circuit as to compensate for the latter phase shifts, one of said first mentioned transformers having electrical constants substantially different from those of any one of said other transformers.

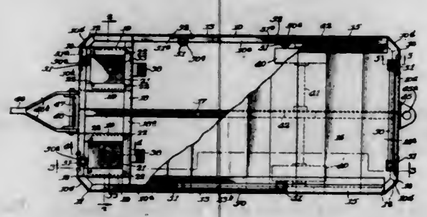
1,785,063. ANTIFRICTION BEARING. JAMES F. WILLIAMS, Lyndhurst, N. J., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Aug. 7, 1928. Serial No. 297,965. 5 Claims. (Cl. 308—212.)



1. In an antifriction bearing, a race ring having a raceway and an arcuate groove at the end of the raceway, the

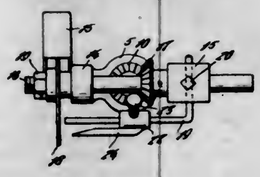
groove being peripherally discontinuous, and its ends breaking out into the raceway, and a guiding and retaining element held in the groove and comprising a flat sided ring having a pair of tongues spaced apart to straddle the material of the race ring between the ends of the arcuate groove; substantially as described.

1,785,064. TRUCK. WERNER ZEINDLER, Albion, Mich., assignor to The Service Caster & Truck Co., Albion, Mich., a Corporation of Michigan. Filed Oct. 4, 1926. Serial No. 139,317. 5 Claims. (Cl. 280—49.)



1. A trailer truck comprising a substantial rectangular frame formed of a channel-shaped member having its flanges directed inwardly and its web extending vertically, side rails of angle cross section attached to the top flanges of the side members of said frame, floor boards resting on the lower flanges of said side rails, and wooden jambs mounted on the ends of said floor boards inside of said rails.

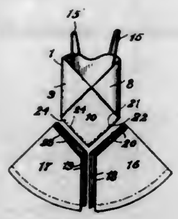
1,785,065. ROTARY SAW. BERTRAND L. ABORN, Belfast, Me. Filed Oct. 11, 1929. Serial No. 398,923. 1 Claim. (Cl. 143—43.1.)



A saw of the character described comprising a supporting sleeve, a bearing in one end thereof, arms projecting from opposite sides of the bearing, aligned bearings on the free ends of the arms, a shaft extending rotatably through the aligned bearings, means operatively connecting the shaft to a source of power for actuation thereby, a saw fixed on the shaft adjacent one of the aligned bearings, a substantially L-shaped depth gauge having one of its legs extending for sliding adjustment through the other aligned bearing, the other leg of the depth gauge disposed parallel to the shaft and terminating in spaced relation to the saw, means for securing the depth gauge in adjusted position, a sleeve mounted for longitudinal sliding adjustment on said other leg of the depth gauge, means for securing the sleeve in adjusted position, and a width gauge formed integrally on the sleeve and extending therefrom in parallelism with the other leg of the depth gauge.

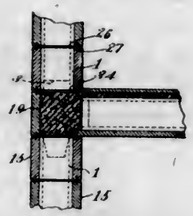
1,785,066. GARMENT. RUTH F. ALBERT, New York, N. Y. Filed Mar. 14, 1930. Serial No. 435,810. 6 Claims. (Cl. 2—73.)

1. A garment provided with a trunk portion composed of a main piece of fabric having its opposite ends folded inwardly and meeting at a point located substantially at the center of the piece, the lower edges of said inwardly folded portions diverging outwardly from the center of the piece towards its opposite sides, an inserted piece of fabric having upper edges extending co-extensively with



the divergent edges on the main piece and stitched thereto, and a skirted portion secured to the lower edges of the inserted piece at the back of the garment and to the lower edges of the main piece at the front of the garment.

1,785,067. BUILDING. ALBERT F. BEMIS, Newton, Mass., assignor to Bemis Industries, Inc., Boston, Mass., a Corporation of Delaware. Filed Dec. 2, 1925. Serial No. 72,678. 17 Claims. (Cl. 72—30.)



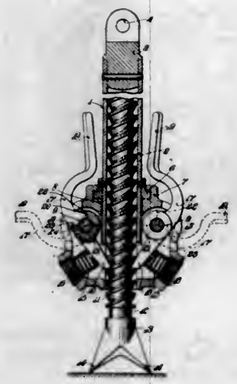
1. In a building construction a structural wall or the like, formed about a series of closely spaced columnar units and having a series of slabs disposed upon opposite sides of the units with connecting member secured to the marginal portions of slabs upon opposite sides of the units and extending into the spaces between the units.

1,785,068. ELECTRIC SWITCH. TONJES A. BOTH, Stratford, Conn., assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 8, 1926. Serial No. 153,287. 10 Claims. (Cl. 200—67.)



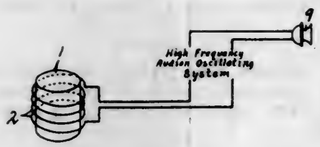
1. In an electric switch, a flat support comprising a plate composed of insulating material mounted to rock in a mounting about an edge of the plate as a pivot in a direction transverse the plane of the plate and having a transverse opening, a switch contact member mounted directly on said support to move therewith in a plane substantially normal to the plane of the plate, means extending into said opening to secure the contact directly to said support, and means for rocking the support.

1,785,069. ADJUSTABLE JACK. CORNELIUS G. BOUDETTE, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Apr. 16, 1928. Serial No. 270,456. 9 Claims. (Cl. 254—98.)



1. An adjustable jack comprising a body member carrying an abutment engaging member, a plurality of pawls carried by said body member, a helical screw arranged to telescope within said body member, spring means normally tending to hold said pawls in engagement with the threads on said helical screw, said pawls having means adapted to cooperate with said threads for effecting relative longitudinal movement of said body member and screw upon rotation of said pawls around said screw, and handle means adjustable relative to said pawls and movable into one position to effect release of said pawls from said threads to permit free collapsing of said jack, said handle means also being adjustable to another position wherein they project laterally to serve as leverage attaining means for rotating said pawls around said screw.

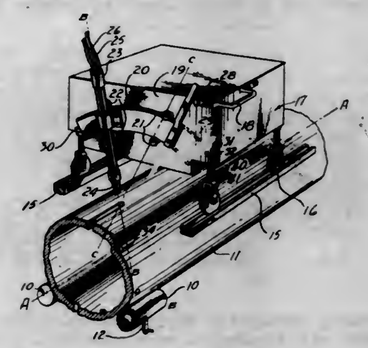
1,785,070. INDUCTIVE LIGHT SOURCE. THEODORE WILLARD CASE, Auburn, N. Y., assignor to Case Research Laboratory Incorporated, Auburn, N. Y., a Corporation of New York. Filed July 23, 1928. Serial No. 294,867. 2 Claims. (Cl. 179—100.3.)



1. A source of light comprising a bulb having a wall permitting the passage of light rays, a gas within the bulb, a coil adjacent the bulb, means for producing high frequency oscillating currents in the coil, and means for modulating said current in accordance with sound wave variations.

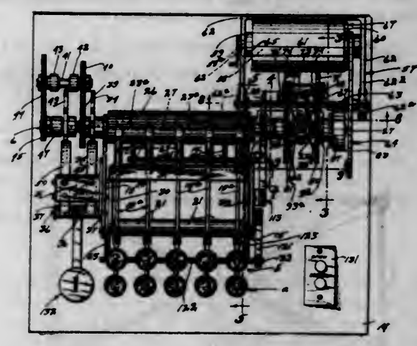
1,785,071. METHOD OF PRODUCING TAPER-SLOTTED PIPE. CLARENCE J. COBERLY, Los Angeles, Calif., assignor to Kobe, Incorporated, Los Angeles, Calif., a Corporation of California. Filed Feb. 4, 1929. Serial No. 337,493. 8 Claims. (Cl. 148—9.)

3. A method of taper-slotting pipe, which comprises: forming a hole in said pipe; directing the flame of a cutting torch through said hole in a non-radial direction; moving said torch relative to said pipe in a direction parallel to the axis of said pipe; shifting said torch into



a different non-radial position; and moving said torch relative to said pipe in a direction parallel to the axis of said pipe.

1,785,072. TELEGRAPHIC TRANSMITTING INSTRUMENT. WILLIAM D. COOPER, St. Paul, Minn. Filed Dec. 16, 1927. Serial No. 240,433. 7 Claims. (Cl. 178—83.)

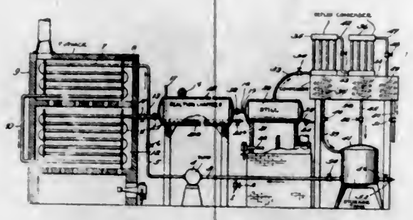


1. In a telegraphic transmitting instrument, a shaft, means for rotating said shaft, means for opening and closing a telegraphic circuit, means for operatively connecting said shaft with said means for opening and closing said telegraphic circuit, a series of keys for producing relatively short telegraphic impulses or dots, and a series of keys for producing relatively long telegraphic impulses or dashes, means for connecting each key in each of said series of keys with said shaft, whereby said shaft is allowed to rotate through different predetermined angular distances when the several keys are manipulated, and means under control of the several keys for positively stopping the rotation of said shaft when the instrument has transmitted a predetermined number of long or short impulses.

1,785,073. PROCESS FOR TREATING PETROLEUM OILS. WALTER M. CROSS, Kansas City, Mo., assignor, by mesne assignments, to Gasoline Products Company, Inc., Wilmington, Del., a Corporation of Delaware. Filed Aug. 28, 1925. Serial No. 53,122. 4 Claims. (Cl. 196—142.)

1. A process of converting hydrocarbon oils comprising heating the oil in a coil and passing it to an enlarged chamber, the oil in the coil and chamber being maintained

at sufficient pressure to retain it substantially in liquid phase, adding a gas containing available oxygen to the oil in the chamber to maintain the thermal conditions of conversion and to supply oxygen to increase the anti-

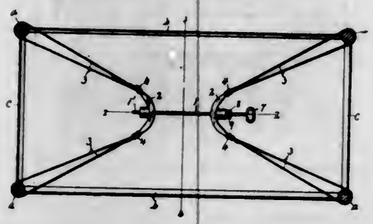


detonating properties of the product, and passing heated oil from the chamber to a stage maintained at pressure conditions reduced to the extent that the lighter fractions are distilled off.

1,785,074. FUNGICIDAL AND INSECTICIDAL COMPOSITION AND METHOD OF PREPARING SAME. LEO P. CURTIN, Freehold, N. J., assignor to Curtin-Howe Corporation, a Corporation of New York. Filed Jan. 25, 1927. Serial No. 163,575. 5 Claims. (Cl. 167—14.)

5. Fibrous organic material which has been impregnated with the herein described solution of arsenous oxide and an aqueous solution of a base, the base not in excess of one-third of the molar equivalent of the oxid.

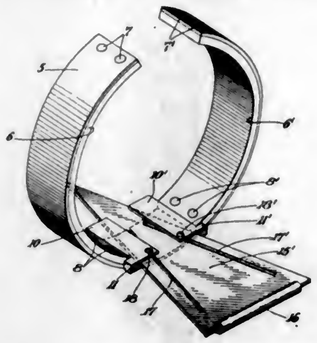
1,785,075. BED STAY. JOHN HENRY DE BOER, Syracuse, N. Y. Filed Feb. 20, 1929. Serial No. 341,409. 2 Claims. (Cl. 5—306.)



1. The combination with a piece of furniture having four legs, of a stay comprising a pair of saddles, means for adjusting the saddles toward each other and for holding them in their adjusted positions, and a pair of stay-wires one for each saddle, each stay wire being continuous from end to end and having its ends attached to opposite ends of its corresponding saddle and its central portion slidably engaged with its saddle and its remaining portion bent into loops divering from the opposite ends of the adjacent saddle and embracing two of the legs to exert inward stress upon said legs along the inwardly converging lines of the loops when tightened, said loops being free to open and close to conform to legs of different sizes.

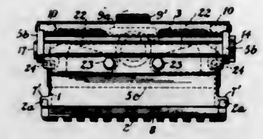
1,785,076. BRAKE-BAND-LINING DEVICE. VLADIMIR FRESHKOFF, New York, N. Y. Filed Aug. 1, 1929. Serial No. 382,752. 2 Claims. (Cl. 29—84.)

1. A device for compressing a sectional brake lining within a brake band, said lining sections being attached to the band at their outer ends and their inner spaced ends squared, comprising blocks having outer faces to contact the inner ends of said sections, said blocks having diagonal slots in their rear surfaces, lugs on said blocks to contact the edges of said lining and band, and a tri-



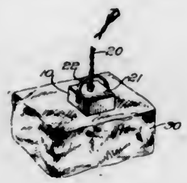
angular plate to enter the slots constituting a wedge whereby the blocks may be forced outwardly to compress the lining sections equally.

1,785,077. SAFETY RAZOR. HENRY J. GAISMAN, New York, N. Y., assignor to Autostrop Safety Razor Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 28, 1927. Serial No. 187,154. 5 Claims. (Cl. 30—12.)



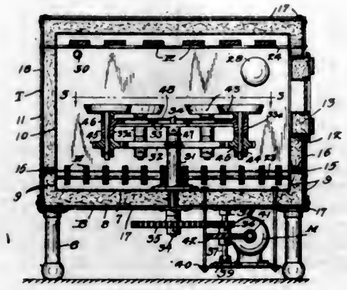
1. A safety razor comprising a frame provided with a guard, a second frame pivoted to the first named frame and having a blade holder and provided with a movable member adapted to engage the first named frame for retaining the blade in shaving relation to the guard, said member being cooperative with the second named frame for retaining the member in position to engage a strop for tensioning it, a roller carried by the second named frame to engage the strop, and gearing connecting said roller with the blade holder for rocking the latter.

1,785,078. DEVICE FOR MAKING SHAPED PIECES OF ICE. CHARLES J. GIBSON, Greenville, Mich. Filed Jan. 31, 1929. Serial No. 336,358. 1 Claim. (Cl. 62—112.)



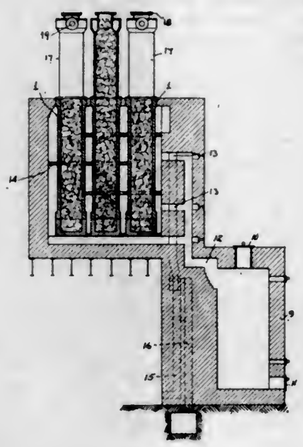
In a device for making shaped pieces of ice from a block thereof, a grid comprising a first series of plates, a second series of plates transverse to said first series, each of said plates having a lower rolled edge, a wire in said rolled edge, and means to cause the flow of electric current thru said wire to heat the latter and, in turn, to heat the rolled edge.

1,785,079. OVEN STRUCTURE. ALBERT E. GRAPP, Minneapolis, Minn. Filed July 16, 1928. Serial No. 292,971. 5 Claims. (Cl. 126—338.)



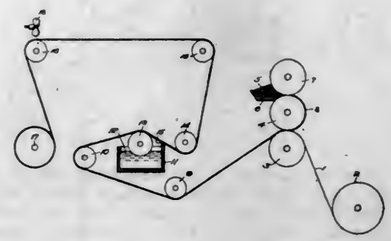
1. An oven comprising a baking chamber, a stationary gear disposed above the bottom of said chamber, a carrier frame above said gear mounted for rotation on an axis concentric with said gear and having a depending shaft projecting through the base of said chamber, a plurality of carrier elements circumferentially arranged about the axis of said carrier frame and rotatably mounted in said carrier frame, said carrier elements having planetary gears in mesh with said stationary gear, means disposed below said chamber for driving said shaft to cause rotation of said frame and in co-operation with said stationary gear to cause independent rotation of said carrier elements at a high rate of speed, and heating elements in said chamber.

1,785,080. APPARATUS FOR CHEMICAL REACTIONS. THOMAS GRISWOLD, Jr., Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Jan. 27, 1927. Serial No. 163,929. 13 Claims. (Cl. 23—262.)



1. In apparatus of the character described, the combination of an externally heated vertically disposed tubular reaction chamber, an externally heated vertically disposed tubular vaporizing vessel, and an externally heated horizontally disposed clean-out chamber below said reaction chamber and vaporizing vessel, separate therefrom and communicating therewith.

1,785,081. RUBBER ARTICLES AND METHOD OF PRODUCING THE SAME. HANS RICHARD HAERTEL, Wrentham, Mass., assignor to Thomas H. Dumper, trustee, Newton, Mass. Filed July 12, 1929. Serial No. 377,895. 10 Claims. (Cl. 91—70.)

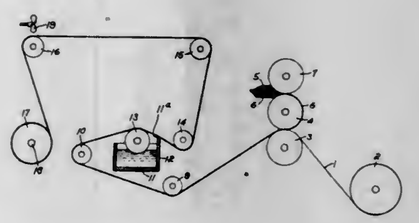


2. The process of treating tacky rubber surfaces which comprises coating them with a liquid containing a volatile solution of shellac and an ammonia solution of a metal carbonate, the latter substantially inert with respect to rubber.

1,785,082. RUBBER ARTICLE AND METHOD OF PRODUCING THE SAME. HANS RICHARD HAERTEL, Wrentham, Mass., assignor to Thomas H. Dumper, trustee, Newton, Mass. Filed July 12, 1929. Serial No. 377,896. 11 Claims. (Cl. 91—68.)

1. That improvement in the method of producing rubberized textile sheets which comprises coating the tacky surface of the rubber with shellac, and afterward wetting the surface of the shellac with a liquid containing an ammonia solution of a metal carbonate.

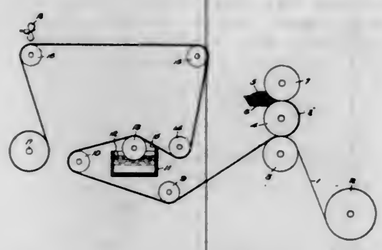
1,785,083. METHOD OF PRODUCING RUBBER ARTICLES. HANS RICHARD HAERTEL, Wrentham, Mass., assignor to Thomas H. Dumper, trustee, Newton, Mass. Filed Oct. 17, 1928. Serial No. 313,032. 8 Claims. (Cl. 91—68.)



1. That improvement in the method of producing rubberized textile sheets which comprises applying a layer of rubber to a textile sheet and removing the tackiness of the rubber by wetting the exposed surface thereof with a film of ammonia solution of a metal carbonate.

7. An article of manufacture comprising a rubber coated textile sheet, the exposed surface of the rubber having thereon a substantially invisible and transparent coating of metal carbonate particles covered by a coating of shellac.

1,785,084. RUBBER ARTICLES AND METHOD OF PRODUCING THE SAME. HANS RICHARD HAERTEL, Wrentham, Mass., assignor to Thomas H. Dumper, trustee, Newton, Mass. Filed Jan. 13, 1928. Serial No. 246,616. 3 Claims. (Cl. 91—68.)



1. That improvement in the method of producing rubberized textile sheets which consists in coating the rubber surface while tacky with shellac and zinc carbonate dissolved in a mixture of alcohol and ammonia, and drying the coating.

1,785,085. RUBBER ARTICLES AND METHOD OF PRODUCING THE SAME. HANS RICHARD HAERTEL, Wrentham, Mass., assignor to Thomas H. Dumper, trustee, Newton, Mass. Filed Jan. 13, 1928, Serial No. 246,617. Renewed Sept. 13, 1930. 5 Claims. (Cl. 91—68.)

1. That improvement in the method of producing rubberized textile sheets which comprises coating the surface of the rubber while tacky with shellac and after drying of the shellac wetting the same with an ammonia solution of zinc carbonate containing alcohol, and drying said solution.

1,785,086. AUTOMATIC FEED DEVICE FOR ROTARY DRILL BITS. JOHN W. HAUK, Whittier, Calif., assignor of one-half to Leroy G. Gates, Bakersfield, Calif. Filed Mar. 1, 1928. Serial No. 258,170. 5 Claims. (Cl. 255—27.)



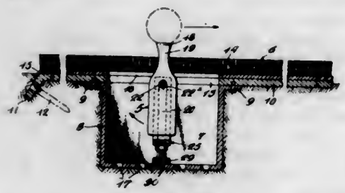
1. In a rotary well drilling apparatus, including a drill stem and a drill bit, a pair of relatively movable members, one carried by said stem and the other carrying said bit; gears carried by said members; and pinions meshing with said gears and connecting said members far relative movement in response to variations in the torque reaction of the bit.

1,785,087. MULTIPLE PUSH-BUTTON UNIT. ARTHUR E. HETZNER, East Orange, N. J., assignor to Graybar Electric Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 17, 1929. Serial No. 355,869. 7 Claims. (Cl. 179—99.)



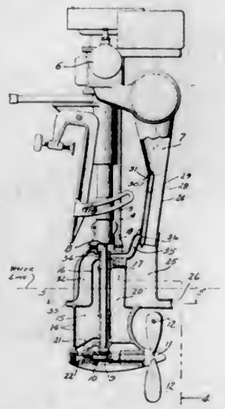
1. In combination with a telephone case having an opening therein adapted to receive an automatic telephone impulse transmitter, a multiple push button unit mounted in said opening comprising a support carrying a plurality of contacts, a contactor cooperating with said contacts, and a plurality of buttons mounted for selectively actuating said contactor to engage a desired contact.

1,785,088. GAME APPARATUS. JOHN RALPH HOGE and LEONARD D. SOUBIER, Toledo, Ohio, assignors to American Patents Corporation, a Corporation of Ohio. Filed Jan. 14, 1930. Serial No. 420,772. 6 Claims. (Cl. 273—33.)



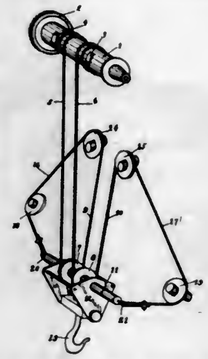
1. In combination, a support, a golf ball tee mounted for vertical sliding and swinging movement on the support, a counterweight on the tee and means for sliding the tee and counterweight vertically and holding them at various elevations.

1,785,089. UNDERWATER EXHAUST MECHANISM. FINN T. IRGENS, Milwuakee, Wis., assignor to Outboard Motors Corporation, Milwaukee, Wis., a Corporation of Michigan. Filed Feb. 6, 1930. Serial No. 426,249. 10 Claims. (Cl. 115—17.)



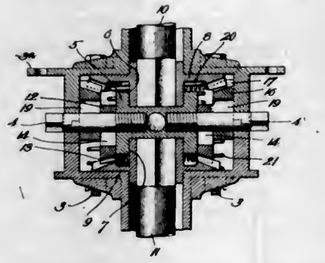
1. The combination with a marine engine having an exhaust manifold, with a submersible outlet and an atmospheric by-pass, of means for establishing a liquid seal for said by-pass.

1,785,090. CRANE. ARTHUR B. JACOBY, Middletown, Ohio, assignor to The American Rolling Mill Company, Middletown, Ohio, a Corporation of Ohio. Filed Sept. 25, 1929. Serial No. 395,063. 9 Claims. (Cl. 254—190.)



1. In a crane, a hook block and means to prevent the turning thereof, comprising opposed cables brought down at an angle and attached to said hook block, and means for taking said cables up during the hoisting operation.

1,785,091. DIFFERENTIAL GEARING. WILLIAM KIRN, Solomon, Kans. Filed Sept. 23, 1929. Serial No. 394,593. 8 Claims. (Cl. 74—7.)



1. A differential gearing comprising a rotatable housing, one or more pins within and rotatable with the housing, a pair of gear wheels suitably journaled within the housing, a pair of axle members axially alined and rotatable with the gear wheels respectively, a pair of telescopically disposed sleeve gears suitably journaled within the housing and each adapted for intermeshing engagement in one of said gear wheels, and means whereby rotation of the housing shall cause the said pins to effect simultaneous rotation in the same direction and at the same speed, to said sleeve gears and hence to the respective shaft sections.

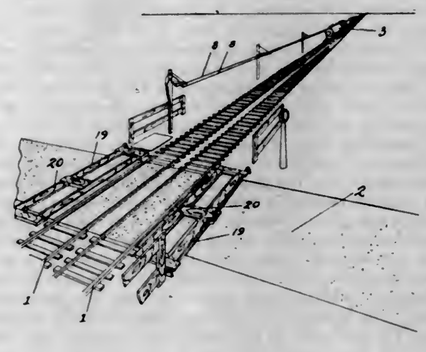
1,785,092. PROCESS OF UNHAIRING HIDES OR SKINS. GEORGE DUNLAP MCLAUGHLIN, GEORGE EDMUND ROCKWELL, FREDERICK O'FLAHERTY, and JOHN HENRY HIGHBERGER, Cincinnati, Ohio, assignors to Tanners' Council of the United States of America, New York, N. Y., a Corporation of the District of Columbia. Filed Mar. 15, 1927. Serial No. 175,627. 9 Claims. (Cl. 149—2.)

1. The process of dehairing a cured skin of a steer which comprises subjecting it to the action of a bath containing saturated lime solution to which has been added about one percent of an amine of the composition

$$C_nH_{(2n+2)-x}(NH_2)_x$$

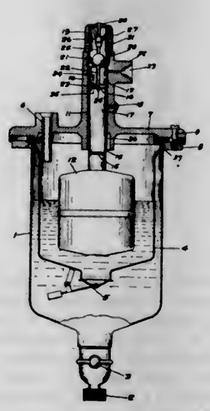
until the skin's hair may be readily removed.

1,785,093. SYSTEM FOR AUTOMATICALLY PREVENTING RAILWAY-GRADE-CROSSING ACCIDENTS. MARTIN E. MCKEE, Cincinnati, Ohio. Filed July 30, 1929. Serial No. 382,191. 2 Claims. (Cl. 246—125.)



1. A system for automatically preventing grade-crossing accidents comprising an electric generator carried by a train road blocking means having an electric motor for actuating said means arranged at the grade-crossing, and electrically conductive trolley wires extending along the track a suitable distance from the crossing and establishing connections with said motor, and trolleys carried by the locomotive for causing current to flow from said generator to said motor, an alarm arranged at the crossing, and means electrically connected with said alarm for closing a circuit from said generator to said motor after a predetermined interval.

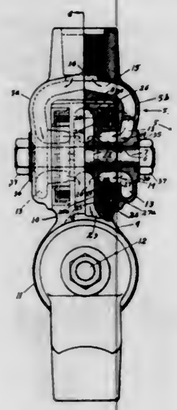
1,785,094. FUEL-SUPPLY APPARATUS. JOSEF V. PACHER, Brooklyn, N. Y., assignor to International Postal Supply Company, Brooklyn, N. Y. Filed Mar. 22, 1930. Serial No. 437,970. 7 Claims. (Cl. 103—236.)



1. A fuel supply apparatus including; a main receptacle having a discharge outlet therefrom and having a free

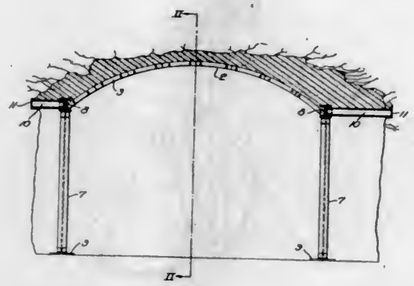
air opening near its upper edge, an auxiliary receptacle positioned within and spaced from the sides of said main receptacle with a fuel inlet thereto, said auxiliary receptacle being shorter than the main receptacle and having an opening in the bottom for quickly discharging its contents in said main receptacle, and a valve for controlling said discharge opening; a cover for both of said receptacles, said cover having a hollow extension, a float in said auxiliary receptacle and having a hollow stem projecting into and guided in said cover extensions, said stem terminating in a pair of spaced collars, said stem also having an imperforate disc positioned just above the float and further having an opening into the auxiliary receptacle, a valve seat positioned in the upper end of said extension, a ball valve to fit said seat, said ball having pins extending from diametrically opposite sides thereof, the lower pin having a guiding fit in the outer of said spaced collars on the float stem, and having a reduced part passing through a hole in the second collar, means for preventing said reduced portion of the pin from being pulled through said second collar, said collars having holes therethrough other than those for said pin, a cap fitting the upper part of said extension, a member having a plurality of spring arms carried by said cap, the upper of said pins carrying a double cone-shaped device against which the free ends of said spring arms engage, said cap having at least one air opening, a port opening into said hollow extension below said valve seat and above the upper limit of movement of said float stem, said port opening adapted to be continuously connected into operative relation to a suction pipe.

1,785,095. FLEXIBLE PIPE ASSEMBLY. EDGAR W. PATTERSON, Los Angeles, Calif., assignor, by direct and mesne assignments, to Walter P. Lacy, William G. Lacy, and C. A. Stiles. Filed June 6, 1929. Serial No. 368,937. 3 Claims. (Cl. 285—19.)



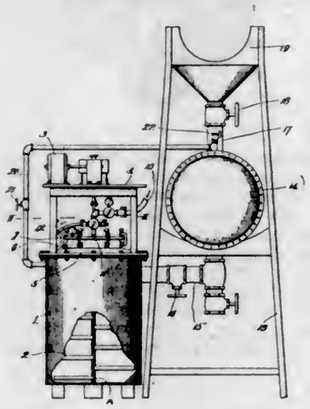
3. In a flexible pipe assembly, a swivel joint comprising a head; and a bifurcated pipe joint member having bifurcations between which said head is pivotally mounted with a working fit, there being a circular groove in a side of said head in radially spaced relation to the pivotal mounting thereof, there being, in spaced relation to the bottom of said groove, a circular passage within said head extending around and in spaced relation to the pivotal mounting thereof, there also being ports affording communication between said groove and said circular passage, a bifurcation of said bifurcated member having a passage which is in communication with said groove, through a plurality of ports.

1,785,096. TUNNEL. ROBERT V. PROCTOR, Youngstown, Ohio, assignor to The Commercial Shearing & Stamping Company, Youngstown, Ohio, a Corporation of Ohio. Filed July 14, 1928. Serial No. 292,874. 2 Claims. (Cl. 61—42.)



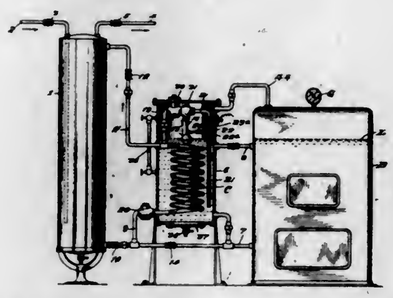
1. A tunnel lining, which comprises a plurality of wrought metal plates having flanges provided with openings and extending toward the inside of the tunnel, the openings being provided with bolts for securing the plates together, a plurality of metal members spaced longitudinally of the tunnel on opposite sides thereof, stringers extending longitudinally of the tunnel arranged on the metal members, means for connecting the stringers with the arch, and struts spaced longitudinally of the tunnel for bracing the stringers.

1,785,097. DISPENSING DEVICE. GWYNNE RAYMOND, Kansas City, Mo. Filed Sept. 4, 1928. Serial No. 303,715. 1 Claim. (Cl. 221—74.)



The combination in pressure spraying apparatus, of a pressure tank adapted to contain a liquid to be sprayed, a discharge connection leading from a point adjacent the bottom of said tank, a filling tank adapted to contain spraying liquid to be admitted to said pressure tank, a valve-controlled liquid supply line connected at one end to the bottom of the filling tank and at its other end to said pressure tank, a valve-controlled pressure line connecting each of said tanks at points above the normal liquid levels therein, and a connection to the upper part of said pressure tank from a source extraneous to both tanks for applying compressed air to said pressure tank.

1,785,098. AUTOMATIC BOILER CONTROL AND WATER-HEATING DEVICE. MORRIS SEIDEL, Brooklyn, N. Y., assignor of fifty per cent to Leon Sanders, Woodmere, Long Island, and George Green, Brooklyn, N. Y. Filed May 31, 1929. Serial No. 367,498. 9 Claims. (Cl. 122—32.)

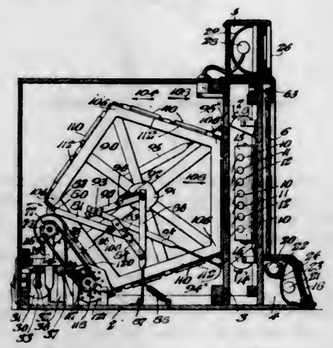


1. In combination, a boiler, a hot water heater in communication with the water space of said boiler, a heat-absorbing coil located in said heater, a hot water reservoir connected to said heat-absorbing coil, said water reservoir having a water inlet pipe and a water outlet pipe connected thereto, a pipe connected to said reservoir and communicating with said heater, and a float controlled valve adapted to control the flow of water through said pipe into the heater.

1,785,099. PROCESS OF PREPARING COMPOSITE GLASS FOR SEALING. JAMES H. SHERTS, Glen Ridge, N. J., assignor to Duplate Corporation, a Corporation of Delaware. Filed May 26, 1928. Serial No. 280,958. 3 Claims. (Cl. 49—81.5.)

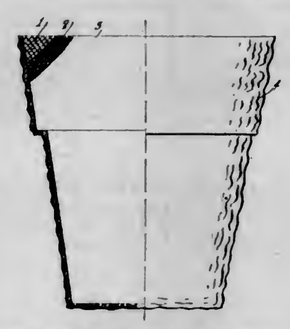
2. The process of removing the periphery of the reinforcing sheet lying between a pair of glass sheets in a composite plate which consists in submerging the edges of the plate in a corrosive liquid which will react with the material of the reinforcing sheet but which will not react with the glass, and leaving the edges of the plate in the liquid until the edges of the reinforcing sheet have been removed to a point inside the edges of the glass sheet.

1,785,100. ADVERTISING DEVICE. DAVID SOLODAR, Ephrata, Pa. Filed Oct. 26, 1929. Serial No. 402,575. 13 Claims. (Cl. 40—33.)



1. In an advertising device, a polygonal drum, tensioned levers in which said drum is rotatably mounted, means for intermittently rotating said drum, and means for retracting and advancing said levers and drum during the rotation of the latter.

1,785,101. POROUS FIBROUS MATERIAL. DANIEL MANSON SUTHERLAND, Jr., Morrisville, Pa., assignor, by mesne assignments, to Better Packages, Inc., Shelton, Conn., a Corporation of New York. Filed Oct. 11, 1928. Serial No. 311,768. 4 Claims. (Cl. 92—55.)

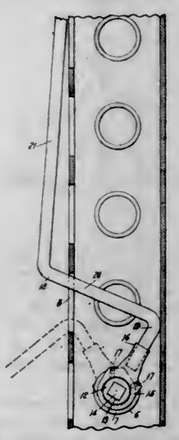


1. A porous fiber body consisting of fibers having air-porous interstices between them and bound together by red gum deposited upon the fibers.

1,785,102. ABRASIVE OR REFRACTORY ARTICLES AND METHOD OF MAKING THE SAME. PRESCOTT H. WALKER and SHERMAN S. KENYON, Niagara Falls, N. Y., assignors to The Carborundum Company, Niagara Falls, N. Y., a Corporation of Pennsylvania. Filed May 1, 1928. Serial No. 274,352. 19 Claims. (Cl. 18—47.5.)

5. A method of producing ceramic articles of low permeability which consists in forming a bonded article of granular material and a binder, and then filling the pores of the article throughout the mass with an inorganic heat resistant substance distinct from the binder.

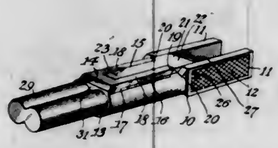
1,785,103. OPERATING DEVICE FOR TUBE EXPANDERS AND THE LIKE. GUSTAV WIEDEKE, Dayton, Ohio, assignor to Gustav Wiedeke Company, Dayton, Ohio, a Copartnership consisting of Gustav Wiedeke, Otto Wiedeke, and Robert Wiedeke. Filed Oct. 28, 1929. Serial No. 402,852. 2 Claims. (Cl. 81—60.)



1. A device for operating a tube expanding or cutting tool, or the like, in a header having in one side thereof a longitudinal series of tube receiving openings and having a second longitudinal series of openings in a side thereof which is at a substantially right angle to the first men-

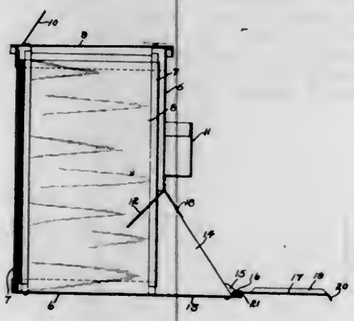
tioned side, the openings of said second series being arranged adjacent to the respective tube receiving openings, said device comprising a pawl and ratchet wrench to be connected with a tool which has been inserted in a tube in one of said tube receiving openings, and a handle for said wrench having a part extending from said wrench lengthwise of said header, and a part extending transversely to the axis of said wrench and arranged to extend through an opening in said second series which is spaced longitudinally of said header from the tube in which said tool is mounted, and also having a part extending from the outer end of said transverse part lengthwise of said header.

1,785,104. ADJUSTABLE CONNECTION FOR BRACELETS AND THE LIKE. ALEXANDER WITTMAYER, Brooklyn, N. Y. Filed July 15, 1929. Serial No. 378,346. 11 Claims. (Cl. 24—206.)



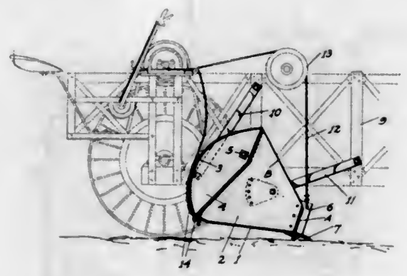
5. In a connection, a head, a shank having a projection, and a rockable rack member on said head having shoulders and a tongue between them with teeth to engage said projection of the shank, said shank being slidable in said head, and means on the head engaging said shoulders for controlling the movement of said rack.

1,785,105. DISPLAY DEVICE. JOSEPH WOZNIAK and ERNEST G. BREMFORDER, Detroit, Mich. Filed Jan. 14, 1929. Serial No. 332,318. 1 Claim. (Cl. 312—114.)



A display receptacle, comprising upright walls, a top and a bottom, one of said upright walls terminating at a distance above the bottom to provide an outlet, the bottom being extended outwardly beyond the plane of said last mentioned wall, the two sides adjacent said outlet having triangular extensions joining the bottom extension to constitute a spout substantially co-extensive in width with the receptacle; the bottom extension being provided with marginal side flanges overlapping the lower edges of the side walls and of the triangular extensions and extending outwardly beyond the latter, a hinge rod connecting the extending portions of said flanges, and a door hinged on said rod and adapted to close against the upper edges of said triangular extensions, the bottom being extended outwardly far enough to provide an abutment to limit the opening of the door to a horizontal position.

1,785,106. SCRAPER-BOWL CONSTRUCTION. WILLIAM J. ADAMS, Santa Cruz, Calif., assignor to Ball Wagon Grader Company, Stockton, Calif., a Corporation. Filed Nov. 6, 1928. Serial No. 317,628. 1 Claim. (Cl. 37—128.)



A scraper bowl having bottom and side plates, an endgate extending between the side plates and alining with the rear edges thereof when the gate is closed, ears on the edges of the gate having a running fit between the side plates of the bowl, pivots between the ears and bowl nearer the top than the bottom thereof, the forward edges of the ears having a slight inclination forwardly from the upper rear corners of the side plates to points adjacent the pivots, and a slight reverse inclination from those points rearwardly to the lower rear corners of the side plates.

1,785,107. TOOTHPICK HOLDER. CASSIUS M. BARTHOLOMEW, Columbus, Ohio. Filed Feb. 14, 1929. Serial No. 339,994. 5 Claims. (Cl. 312—73.)



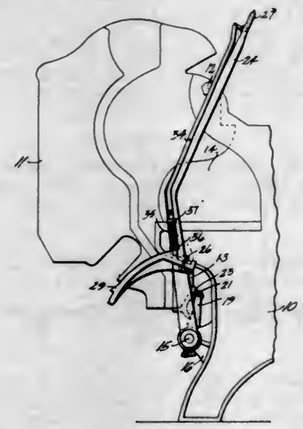
1. A toothpick server comprising an elongated rectangular receptacle arranged in substantially upright position, said receptacle having a forward wall and a bottom wall arranged to form an acute angle therewith, means to permit of the removal of said forward wall, a flange constituting a platform extending upwardly and outwardly from and forming an angle with the forward edge of said bottom wall, a guard flange extending upwardly and outwardly from the lower edge of said forward wall, means for supporting the forward wall to maintain the flange in spaced relation, the lower edge of said forward wall being directed at the point of the angle formed between the platform and the bottom wall, said forward wall and bottom wall having the lower edges thereof centrally recessed to facilitate grasping a pick, and means for securing the forward wall in position.

1,785,108. ENGINE. PAUL BASTIEN, Indianapolis, Ind. Filed Dec. 17, 1925. Serial No. 76,053. 2 Claims. (Cl. 123—52.)



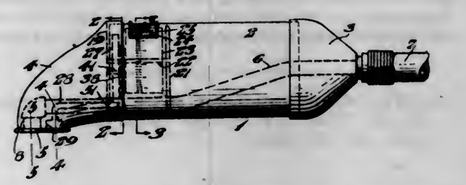
1. In an internal combustion engine having eight cylinders in line and all arranged on the same side of the crank shaft, the combination of a shaft having cranks of which the four middle cranks are in a common plane and in which the two end pairs of cranks are in a common plane at right angles to the first mentioned plane, thereby permitting a firing order of four middle cylinders in regular sequence at each half revolution of the crank shaft and a firing order of four end cylinders in regular sequence and alternating with that of said four middle cylinders, a detachable head for said cylinders including a pair of parallel positioned vertical conduits positioned midway of the engine, a laterally extending manifold passage connected at one end by a branched passage to the third and fourth cylinders and at its opposite end to the fifth and sixth cylinders and at its mid portion to the top of the vertical conduit closest to the cylinders, a second laterally extending manifold passage substantially parallel to the first mentioned passage and similarly arranged relative to the end pairs of cylinders and the more remote vertical conduit, the lower ends of said vertical conduits being arranged for independent carburetor connection, and an outer wall associated with the exhaust passages and intake passage and fully inclosing the same and providing water jacketing space therebetween, and valves arranged in line and carried by the head for controlling the supply of fuel to and the exhaust from said cylinders.

1,785,109. BREAST LIFTER FOR GINS. JOSEPH BEHLE, Dallas, Tex., assignor to The Murray Company, Dallas, Tex., a Corporation of Texas. Filed Dec. 7, 1929. Serial No. 412,390. 4 Claims. (Cl. 19—55.)



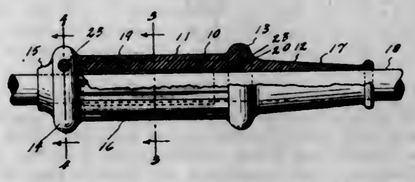
1. In a gin breast lifting device, the combination with a gin frame, a rock shaft, elements carried by said shaft for engaging the breast to elevate said breast when the shaft is rocked, means for rocking said shaft, and oppositely coiled springs surrounding the shaft, each spring having one end immovably held and its opposite end adjustably secured and arranged for rotation whereby the tension of the spring may be varied, said springs being under tension when the breast is lowered and uncoiling when the breast is elevated to assist in lifting the same.

1,785,110. COMBINED COMPRESSED-AIR HOSE AND AIR-PRESSURE GAUGE. CHARLES A. BELZ, Arcola, Pa. Filed July 19, 1929. Serial No. 379,457. 3 Claims. (Cl. 152—11.5.)



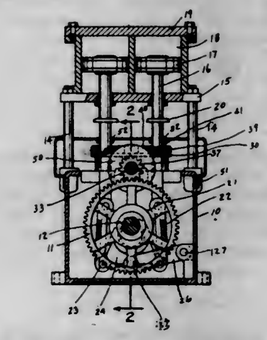
1. In a device of the character stated, a cap formed with a nozzle, said cap being secured to a handle, a pair of pipes arranged in said cap, one of said pipes leading to and communicating with an air pressure gauge secured in said handle, there being a window in the handle, said window disclosing a portion of said air gauge.

1,785,111. HANDLE. CHARLES S. CRICKMER, Dallas, Tex., assignor to Tridex Corporation, Dallas, Tex., a Corporation of Texas. Filed Apr. 19, 1928. Serial No. 271,156. 5 Claims. (Cl. 16—116.)



5. A flexible handle including an elongated body having a longitudinal bore and a longitudinal cavity contiguous to said bore terminating short of the ends of the bore, said body having a longitudinal surrounding hand grip extending substantially the length of the cavity, collars at each end of the hand grip of the body, and metallic adjustable clamps embedded in the body and surrounding the bore at the collars.

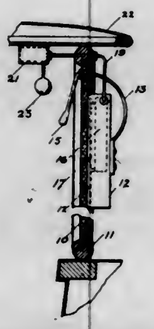
1,785,112. COMBINATION DRIVE AND OIL PUMP. STUART DEAN, Indianapolis, Ind. Continuation in part of application Serial No. 219,868, filed Sept. 16, 1927. This application filed July 18, 1928. Serial No. 293,742. 10 Claims. (Cl. 184—13.)



4. In combination a gear chamber constituting an oil reservoir, a gear therein adapted to run in oil in said chamber, a superposed gear meshing therewith, a cover for said chamber including an oil passageway for gravity lubrication, and including an opening above the superposed gear for supplying the oil to the passageway from the lat-

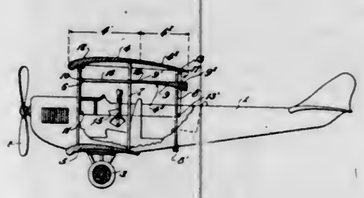
ter, a shaft supporting the superposed gear in position beneath said cover passageway and lubricated thereby, and plates carried by the shaft adjacent the superposed gear for rotation with and by the shaft in the rotation of the gear, said plates overlapping both gears and the meshing engagement for laterally confining the oil carried by the first-mentioned gear to the engageable portions of said gears.

1,785,113. WINDSHIELD WIPER. HUGH DOLAN, Pottsville, Pa. Filed Nov. 2, 1928. Serial No. 316,862. 1 Claim. (Cl. 15—255.)



A wind-shield wiper comprising a block member provided with a solution holding chamber and a communicating open groove formed in and extending along one edge thereof, said groove adapted to lie in contact with the surface of the wind-shield, the block portions immediately adjacent said groove and for the full length thereof constructed with oppositely disposed knife-edges for the purpose set forth.

1,785,114. AIRPLANE. FRANCIS A. DOYLE and GEORGE A. LYONS, Springfield Mass. Filed Aug. 10, 1927. Serial No. 212,022. 6 Claims. (Cl. 244—29.)

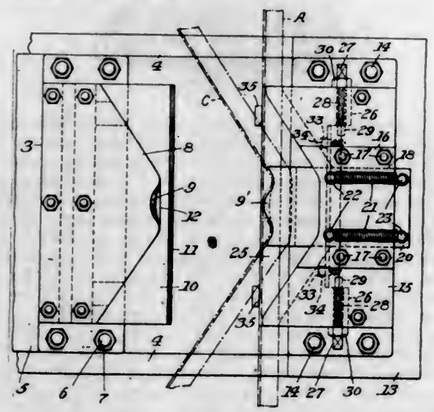


1. In an airplane comprising, in combination, a pair of supporting wings one of the wings being mounted for free and unrestricted movement, either upward or downward, for creating an air pressure on either the upper or lower surface of said wing, and means for retaining the movable wing in a fixed position for retarding the motion of the airplane.

1,785,115. SOLDERING FLUX. HARRY B. DYKSTRA, Wilmington, Del., assignor, by mesne assignments, to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Delaware. Filed May 7, 1930. Serial No. 450,599. 2 Claims. (Cl. 148—23.)

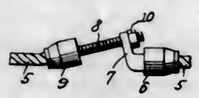
1. In a process of soft soldering, the step of applying a flux comprising a chlorinated rosin.

1,785,116. DIE MECHANISM. CHARLES FASSINGER, Pittsburgh, Pa., assignor to Oliver Iron & Steel Corporation, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 17, 1928. Serial No. 320,077. 8 Claims. (Cl. 153—25.)



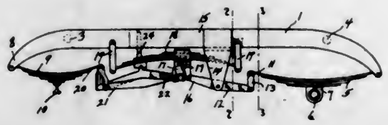
1. A die mechanism for bending structural shapes, which comprises a plurality of dies, means for causing relative movement of said dies toward and away from each other, and means including a hinge plate and a spring-controlled slide for preventing warping of the shapes during bending.

1,785,117. ANTISKID CHAIN. EDWARD FONFEREK, Gillett, Wis. Filed July 28, 1928. Serial No. 296,021. 1 Claim. (Cl. 24—124.)



A connector for the ends of cables of antiskid devices comprising a head secured to one end of a cable, an apertured member extending from said head, said apertured member being extended laterally, a bolt extending from the opposite end of the cable and passing through the apertured member, and a nut operating on the bolt for drawing the ends of the cable together.

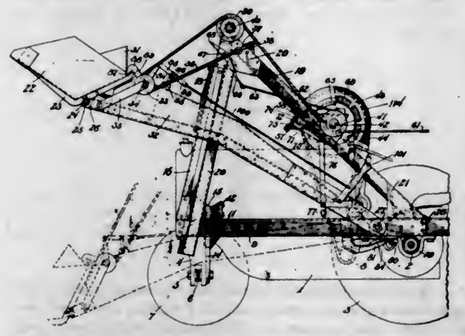
1,785,118. BALANCING SPRING. JOHN W. FRY, Struthers, Ohio. Filed Aug. 6, 1928. Serial No. 297,669. 3 Claims. (Cl. 280—104.)



1. In a device of the class described, a pair of rear springs, the rear end of each of said springs being attached to a vehicle frame, said spring being supported by a rear axle, a pair of front springs, the front end of each of said front springs being attached to a vehicle frame, each of said front spring being supported by a front axle, a cross bar secured to said frame and positioned between the front and rear axles, a pair of cross levers having their front ends shackled to rear ends of said front springs, said cross levers being pivotally mounted on said cross bar, a pair of oppositely disposed centrally located springs each of which is suspended by shackles to the frame of the vehicle, the rear ends of said cross levers being shackled to the central portion of the centrally located springs, a

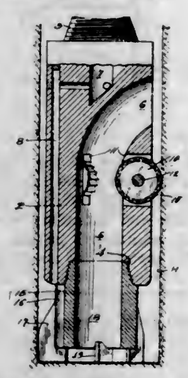
pair of support members oppositely disposed and secured to each side of said frame, a pair of oppositely disposed levers pivotally secured to said support members, the front end of each of said oppositely disposed levers being shackled to one of said centrally located springs, the rear end of each of said oppositely disposed levers, being shackled to the front end of one of said rear springs, substantially as described.

1,785,119. LOADER. HOWARD F. GORSUCH and ARTHUR SHERIDAN HUGHES, Mansfield, Ohio, assignors to Hughes-Keenan Company, Mansfield, Ohio, a Corporation of Ohio. Filed June 5, 1926, Serial No. 113,962. Renewed May 14, 1930. 17 Claims. (Cl. 214—140.)



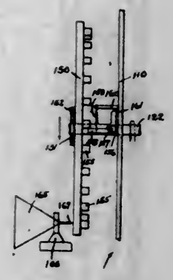
1. An attachment for a tractor comprising a main frame with horizontal side bars adapted to be secured to the rear axle housing of the tractor at opposite sides of the tractor body, a transverse member rigidly connecting the front ends of the side bars and adapted to be supported from the front axle tree of the tractor, inclined bars at each side of the main frame, said inclined bars being disposed in a vertical plane and secured at their lower ends to the side bars and secured at their upper ends to each other, guide rails secured respectively to the front inclined bars, a swinging frame including a pair of arms rigidly connected together and pivoted at their rear ends to the main frame so as to swing upwardly and downwardly, said arms being guided in their swinging movement by said guide rails, means at the forward end of the swinging frame for carrying a load, means for raising the swinging frame about its pivot, and releasable means for retaining the swinging frame in raised position.

1,785,120. CORE BY-PASS DRILL. OSCAR F. HARDING, Long Beach, Calif. Filed Oct. 8, 1928. Serial No. 311,158. 5 Claims. (Cl. 255—72.)



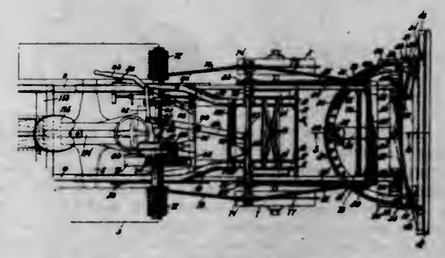
1. A well drilling tool body having a core receiving bore deflected out to one side, a set of rotary leading cutters cutting the hole and forming a core smaller than the bore, and an upper set of cutters reducing the core and reaming the hole.

1,785,121. GRAPHOPHONE CLOCK. JOHN H. HOLLOWAY, La Fayette, Ind. Filed Dec. 12, 1927. Serial No. 239,496. 2 Claims. (Cl. 58—14.)



1. In a clock, a rotating shaft, a rotatable sound reproducing disc, a spring connected at one end to said shaft and at its other end to said disc, a stop, and a spring holding said stop in engagement with said disc, said stop spring overcome by tension of said first mentioned spring when the shaft has reached a predetermined position.

1,785,122. EARTHWORKING ATTACHMENT FOR TRACTORS. ARTHUR SHERIDAN HUGHES, Mansfield, Ohio. Filed Dec. 16, 1926. Serial No. 155,206. 6 Claims. (Cl. 37—159.)

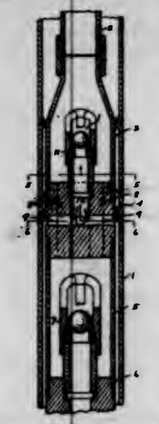


3. In an attachment for tractors, the combination of a main frame, arms pivotally connected to the main frame to swing upwardly and downwardly, said arms extending forwardly of the main frame, means operable by the tractor engine for raising or lowering said arms, a supporting frame secured to the forward portions of said arms, an implement frame, a vertical pivot pin connecting the implement frame to the supporting frame, said implement frame having an arcuate flanged portion concentric with the pivot pin, brackets secured to the respective swinging arms and to the supporting frame and having flanges between which the flanged arcuate portion of the implement frame is supported and guided, means for securing the implement frame in adjusted position with respect to the pivot pin, and an earth working implement carried by said implement frame.

1,785,123. WELL PACKER. GRANVILLE A. HUMASON, Houston, Tex. Filed Nov. 10, 1924. Serial No. 748,830. 3 Claims. (Cl. 166—10.)

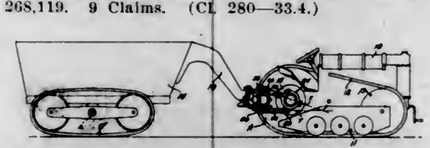
1. The combination with a tubular member adapted to rest on the bottom of the well bore and having an external abutment and formed of telescopically arranged parts having interengaging shoulders and also having a limited slidable movement relative to each other, of a mandrel

connected to the upper end of one of said telescoping parts and formed with an expander, an expansible sleeve around said mandrel, end abutments associated with the



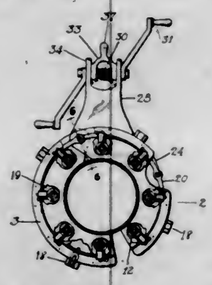
mandrel and confining said sleeve, anchoring means adapted to cooperate with said expander and to be engaged and actuated by the abutment on said tubular member into engagement with the walls of said bore.

1,785,124. HAULING UNIT. GEORGE C. JETT, Milwaukee, Wis., assignor of two-fifths to Walter H. Stiemke, Milwaukee, Wis. Filed Apr. 7, 1928. Serial No. 268,119. 9 Claims. (Cl. 280—33.4.)



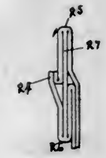
1. A hauling unit comprising a tractor, a crawler tread therefor, a trailer having a body for receiving and transporting loose materials, and a load sustaining draft mechanism therebetween attached to one end of said tractor, said draft mechanism including a member for oscillation about a longitudinal horizontal axis, and means coacting with said tractor and trailer to transmit and apply a portion of the trailer load to said tractor at a point forwardly of the point of attachment of said mechanism to said tractor to thereby distribute said load over said crawler tread.

1,785,125. MULTIPLE WRENCH. ALBERT A. KALO, Columbus, Ohio, assignor of one-half to C. A. Hanner, Canton, Ohio. Filed July 31, 1929. Serial No. 382,403. 7 Claims. (Cl. 81—54.)



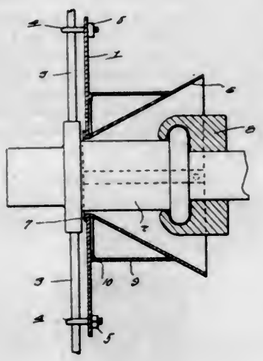
1. A multiple wrench comprising a pair of relatively movable supporting sections formed to be positioned around a pipe adjacent to a pipe coupling, a plurality of axially rotatable socket devices mounted for turning movement in said supporting sections, the ends of said devices being formed with open nut receiving sockets for the reception of the nuts of said coupling, primary means carried in connection with said supporting sections for effecting relatively rapid rotation of said socket devices during the initial tightening of the coupling nuts, and secondary operating means for relatively slow turning movement of said socket devices to produce a powerful tightening rotation of the coupling nuts.

1,785,126. BAG. MARVIN R. KENDALL, Chicago, Ill., assignor, by mesne assignments, to St. Regis Paper Company, New York, N. Y., a Corporation of New York. Filed Apr. 28, 1928. Serial No. 273,490. 5 Claims. (Cl. 150—9.)



1. A bag comprising a tubular body portion having gusset folded sides and an outstanding end closing seam, the walls of the bag being creased across the end substantially parallel with the seam and at a distance from the seam substantially equal to the depth of the gusset fold.

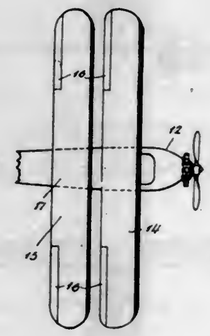
1,785,127. WHEEL-HUB PROTECTOR. HENRY E. KIEHLBAUCH, Tyndall, S. Dak. Filed Mar. 22, 1930. Serial No. 438,150. 2 Claims. (Cl. 301—123.)



1. A wheel hub protector of the character described comprising a plate adapted to be mounted on the wheel in a manner to encircle the hub, a frusto-conical sleeve mounted on the disk and extending laterally therefrom around the hub and an annulus having one end mounted on the sleeve and its opposite end mounted on the disk.

1,785,128. AEROPLANE. ANTHONY LANZETTA, Bronx, N. Y. Filed Mar. 22, 1928. Serial No. 263,655. 4 Claims. (Cl. 244—12.)

1. An aeroplane comprising a wing divided into sections arranged one behind another and in close proximity to each other, one of which sections has a central portion disposed in a plane above and parallel to that of the other section, and end portions which extend diagonally



downward from said central portion, the extremities of said end portions being in the same horizontal plane with said other section.

1,785,129. MEANS FOR CONNECTING TUBULAR MEMBERS. ERNST PAUL LEHMANN, Brandenburg-on-the-Havel, Germany. Filed Mar. 8, 1928, Serial No. 260,173, and in Germany Oct. 6, 1927. 1 Claim. (Cl. 285—182.)



In combination, a tube having a longitudinal slot therein, a wider slot at one end of the tube adjoining said longitudinal slot so as to form a continuation thereof, said wider slot having a width gradually increasing in size towards the said end of the tube, and a second tube adapted to receive the first-mentioned tube and having an inward projection adapted to engage in said wider slot and force the walls thereof apart on the first-mentioned tube being inserted in the second-mentioned tube, as and for the purposes set forth.

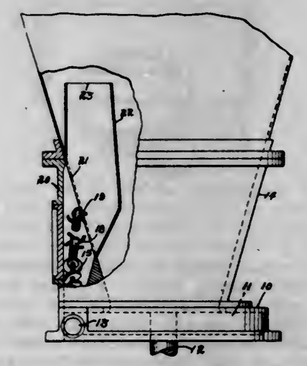
1,785,130. PROCESS FOR MAKING ROAD SURFACES. MARCEL LÉVY, Geneva, Switzerland, assignor of one-half to Prodorite S. A., Geneva, Switzerland, a Corporation of Switzerland. Filed June 23, 1927, Serial No. 201,023, and in Germany July 2, 1926. 1 Claim. (Cl. 94—23.)

A process for improving a freshly tarred road surface consisting in scattering over the tarred surface a dry bituminous stone powder obtained by impregnating 100 parts of powdered limestone with 10 to 15 parts of bitumen.

1,785,131. ZINC-CHLORIDE-BASE FLUX. GEORGE LUTZ, Rocky River, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Delaware. Filed Dec. 26, 1929. Serial No. 416,756. 3 Claims. (Cl. 148—23.)

1. As a new composition of matter a soft soldering flux comprising a sulfonated vebetable oil compound and zinc chloride.

1,785,132. FEEDING DEVICE. ESLI A. MARSH, Chicago, Ill., assignor, by mesne assignments, to St. Regis Paper Company, New York, N. Y., a Corporation of New York. Filed Mar. 7, 1929. Serial No. 345,190. 8 Claims. (Cl. 221—129.)



1. In combination, a main feeding device, a hopper in position to furnish material to said device, an auxiliary feeding device, and a guide chute extending into said hopper, dividing material from that directed towards the main feeding device, and directing said divided material to said auxiliary feeding device.

1,785,133. BARREL-HEAD-FASTENING MEANS. DONALD B. MCDONALD, Quitman, Ga. Filed Mar. 19, 1929. Serial No. 348,298. 2 Claims. (Cl. 217—76.)



2. A container having a groove near its end, a ring adapted to fit in said groove and to be substantially enclosed therein said ring having diametrically oppositely disposed offsets extending inwardly from said ring and in substantially the same plane as the ring and a head for the container having on its inner surface a bar with wedge shaped ends extending circumferentially of the head and terminating at approximately the outer periphery of the head.

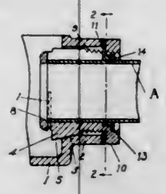
1,785,134. SOLDERING. HOWARD S. MCQUAID, East Chicago, Ind., assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Delaware. Filed Dec. 26, 1929. Serial No. 416,751. 6 Claims. (Cl. 148—23.)

6. A soldering flux comprising an ethanol-amine.

1,785,135. FLUX FOR SOFT SOLDERING. HOWARD S. MCQUAID, East Chicago, Ind., assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Delaware. Filed Dec. 26, 1929. Serial No. 416,753. 6 Claims. (Cl. 148—23.)

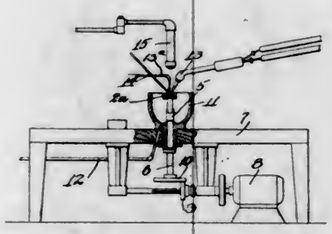
4. As a soldering flux an organic amine soap.

1,785,136. CONDUIT FITTING. GEORGE R. METCALF, Jr., Erie, Pa., assignor to Erie Malleable Iron Company, Erie, Pa., a Corporation of Pennsylvania. Filed Apr. 4, 1928. Serial No. 267,435. 2 Claims. (Cl. 247—25.)



2. In a conduit fitting, the combination of a body having a conduit opening therein; a slotted sleeve in the opening, said sleeve and walls of the opening having wedging surfaces operable to contract the sleeve with relative axial movement of the sleeve and body, said sleeve having a gland opening on its inner periphery; a nut on the outer end of the sleeve engaging the end of the body forcing the sleeve endwise; a gasket in the gland having a tongue extending into the slot and subjected to the closing action of the slot upon the contraction of the sleeve; and a gasket between the nut and the body having a tongue extending inwardly into the slot in position to be engaged by the tongue of the gasket on the gland.

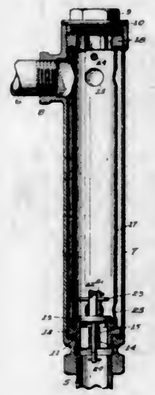
1,785,137. COMPOSITE-METAL ARTICLE AND METHOD OF MAKING THE SAME. CLARENCE W. MILLER and RICHARD E. BISSELL, Cleveland, Ohio, assignors to Thompson Products, Inc., Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 30, 1927. Serial No. 243,546. 9 Claims. (Cl. 148—1.)



1. The method of applying an homogeneous cast iron head substantially free from pits and blow holes to a steel member comprising recessing the member and preheating the same while rotating, applying a flux to the recess during preheating and prior to oxidation, depositing molten cast iron on the fluxed preheated recess while continuing such rotation, and then quenching the article while rotation is continued.

1,785,138. SUBTERRANEAN CHECK VALVE. JOHN J. MOHLER, Peoria, Ill., assignor, by direct and mesne assignments, to Wilmoh Manufacturing Corporation, Chicago, Ill., a Corporation of Illinois. Filed May 10, 1929. Serial No. 361,905. 4 Claims. (Cl. 137—69.)

1. In a subterranean check valve the combination of an elongated housing, an inlet passage to the housing, an outlet passage from the housing, a check valve between the two passages, and means extending from the check valve to a point adjacent one end of the housing and disengageably co-operating with the housing to exert

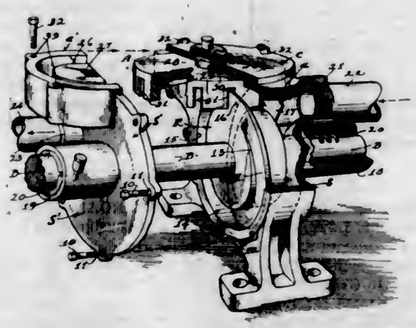


a downward pressure to hold the check valve in position and when disengaged serving to remove the check valve from the housing.

1,785,139. PROCESS OF PRODUCING METALLIC CADMIUM FROM CADMIUM-CONTAINING MATERIAL. HANSON H. MONROE, Painesville, Ohio, assignor, by mesne assignments, to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Delaware. Filed May 18, 1928. Serial No. 278,912. 9 Claims. (Cl. 75—17.)

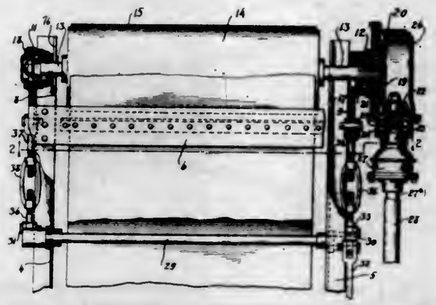
1. The process of recovering metallic cadmium from zinc and cadmium bearing material, which comprises submitting said material to the action of a molten caustic alkali in the presence of a carbonaceous reducing agent.

1,785,140. ROTARY FLUID PUMP. THOMAS L. MORRIS, Van Nuys, Calif. Refile for abandoned application Serial No. 195,801, filed June 1, 1927. This application filed Aug. 6, 1928. Serial No. 297,586. 2 Claims. (Cl. 103—123.)



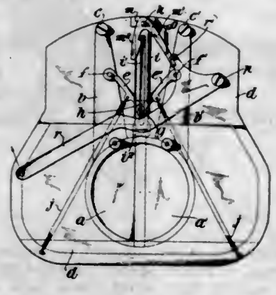
1. A device of the class described comprising a casing having a chamber therein, a detachable side head for the chamber, a rotor in the chamber provided with a helical impeller vane, said casing having a top chamber above said rotor with a detachable top therefor having a seat therein, a rotatable disc having a trunnion at its central portion fitting in said seat and a downwardly projecting peripheral rim having notches therein through which the vane may pass, a base for supporting the rotor chamber, said detachable side head carrying an outer wall and a bored seat for said rim.

1,785,141. ELEVATOR. ROLLA A. MORTON, Long Beach, Calif., assignor to Western Wheeled Scraper Company, Aurora, Ill., a Corporation of Illinois. Filed Feb. 12, 1926. Serial No. 87,863. 8 Claims. (Cl. 198—203.)



1. The combination with an elevator frame comprising side members, a transverse support mounted on said side members for adjustment longitudinally thereof, said support comprising a plate extending across the frame below said side members, and a slide block between said plate and each of said side members, of a roller, bearings for said roller, carried by said support, driving means, and driving connections between said driving means and said roller adjustable longitudinally of the frame with said support.

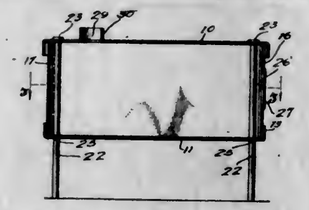
1,785,142. OBJECTIVE SHUTTER. RICHARD NERRLICH, Berlin, Germany. Filed Nov. 21, 1929, Serial No. 408,852, and in Germany Nov. 23, 1928. 5 Claims. (Cl. 95—62.)



1. An objective shutter of the character described, comprising, in combination, a pair of oscillable arms adapted to be moved towards, and away from, one another and forming at their free ends the shutting members proper for the objective; a toggle-joint lever located between said arms and being connected with them; springs engaging the toggle-joint lever arms and tending to maintain said shutter members proper in closed position; a slotted longitudinal member also located between the oscillable arms and behind said toggle-joint lever, the middle junction pivot of this lever engaging said slot; and damping means so arranged as to be adapted to intercept the said shutter members proper just before the very end of their closing path.

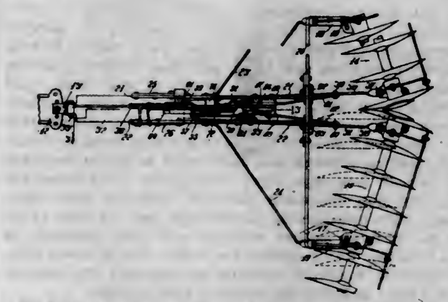
1,785,143. KNOCKDOWN STOVE. HARRY OONK, Phoenix, Ariz. Filed Mar. 18, 1929. Serial No. 347,945. 2 Claims. (Cl. 126—9.)

1. A knockdown stove comprising a top section, a bottom section, other sections interposed between the top and bottom sections to space the latter sections and form the side walls of the stove, hangers on the top and bottom sections for confining said other sections against outward displacement, tie members extending through the top and



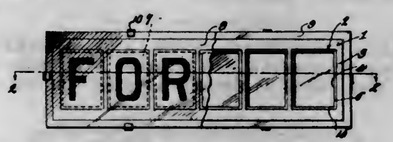
bottom sections within and in proximity to said other sections to prevent inward displacement of the latter sections, heads on the tie members, and removable pins in the tie members co-acting with the heads to maintain the sections assembled by the tie members.

1,785,144. DISK HARROW. WILLIAM L. PAUL, Berkeley, Calif., assignor to Deere and Company, Moline, Ill., a Corporation of Illinois. Filed Nov. 13, 1925, Serial No. 68,835. Renewed Oct. 3, 1929. 45 Claims. (Cl. 55—81.)



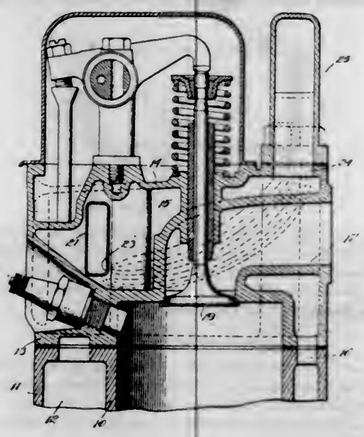
1. A gang shifting mechanism for disk harrows, comprising a draft member movable fore and aft relatively to the harrow frame, and means comprising rotary clutch controlled devices actuated by movement of said draft member to adjust the angular position of the gangs.

1,785,145. SIGN. EDWIN B. ROLL, Los Angeles, Calif. Filed Apr. 2, 1928. Serial No. 266,795. 1 Claim. (Cl. 40—140.)



In a sign of the character described, a foundation comprising a flat body consisting of facially united plies, said plies being formed with registering openings of corresponding marginal contour, the openings in one of the plies being of smaller dimensions than the openings in the other ply to provide supporting portions projecting within the bounds of the openings of said other ply, sign character bearing members equal in thickness to said other ply and removably arranged within the openings of said other ply and resting marginally against said supporting portions, a transparent removable sheet disposed against said other ply and the transparent bearing members to hold the latter in place, a transparent removable sheet disposed against the ply having the smaller openings, and means for clamping the first and second mentioned transparent removable sheets in position.

1,785,146. INTERNAL-COMBUSTION ENGINE. OTTO R. SCHOENROCK, Chicago, Ill. Filed Apr. 20, 1929. Serial No. 356,815. 6 Claims. (Cl. 123—173.)

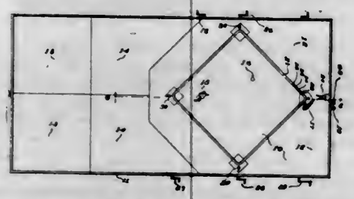


1. An internal combustion engine comprising, in combination, a cylinder block with a plurality of parallel aligned cylinders and a water jacket about said cylinders, a head structure on said block, said head structure having a water jacket extending the length of said block, said water jackets being in communication, valve conduits in said head structure, a sheet metal water distribution pipe removably inserted in one end of said head structure and extending through said head water jacket to the other end thereof, said pipe being rectangular in cross-section with the long dimension disposed vertically and being formed with large discharge openings, one for each cylinder, in its lower corner adjacent said valve conduits to direct cooling water toward the latter, and a water take-off manifold having a plurality of branches one opening to said head jacket in the region of each cylinder.

1,785,147. SULPHONATED MINERAL OILS AS ADDITION AGENTS TO ZINC-CHLORIDE-BASE FLUXES. WILLIAM KENMORE SCHWEITZER, Cleveland, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Delaware. Filed Dec. 26, 1929. Serial No. 416,759. 4 Claims. (Cl. 148—23.)

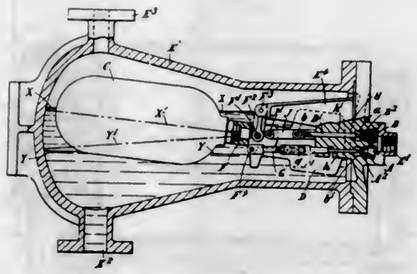
1. As a new composition of matter a soldering flux comprising zinc chloride and a sulphonated mineral oil.

1,785,148. BASEBALL GAME AND APPARATUS. PARKER T. SIMMONS, East Hampton, N. Y. Filed Aug. 17, 1928. Serial No. 300,236. 4 Claims. (Cl. 273—89.)



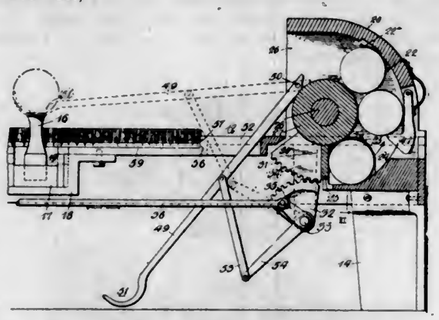
1. In a device of the character described, a field floor having an orbital slot therein, a plurality of series of endless members movable in a similar orbit beneath the slot, separate operating means for each endless member, a runner-carrying member extending from each endless member upwardly through the slot, runner figures thereon, said runner carrying members being successively spaced horizontally for independent movement past each other.

1,785,149. FEED-WATER REGULATOR. WALTER SMITH, Harrow-on-the-Hill, England. Filed Oct. 1, 1928, Serial No. 309,567, and in Great Britain Oct. 15, 1927. 6 Claims. (Cl. 137—103.)



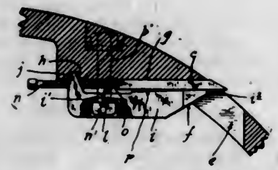
1. In a feed-water control, the combination of a water chamber having an outlet for the feed-water; a pair of valves in said chamber to control the outlet; a float in the chamber; a lever pivoted in said chamber and carrying the float; and pivotal connections between the valves and the lever at opposite sides of the lever pivot for operating said valves in succession consequent upon the movement of the float in a single direction.

1,785,150. GAME APPARATUS. LEONARD D. SOUBIER and EDWIN J. CARL, Toledo, Ohio, assignors to American Patents Corporation, a Corporation of Ohio. Filed Jan. 4, 1930. Serial No. 418,512. 17 Claims. (Cl. 273—35.)



1. In combination, a tee adapted to support balls in driving position, a target spaced horizontally from the tee, a return conduit thru which driven balls are carried to a position adjacent the tee, and mechanical means for placing balls one at a time on the tee while the latter is disposed to support balls in driving position.

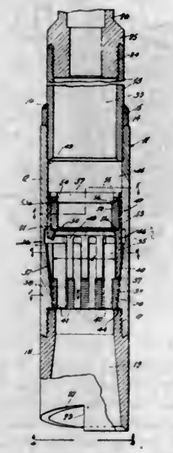
1,785,151. KNIFE-HOLDING MEANS FOR CHIPPING MACHINES. CHARLES B. SPRAGUE, Portland, Oreg. Filed May 20, 1929. Serial No. 364,594. 5 Claims. (Cl. 83—75.)



1. In a rotary cutter the combination of a hollow cylindrical head provided with longitudinal knife receiving

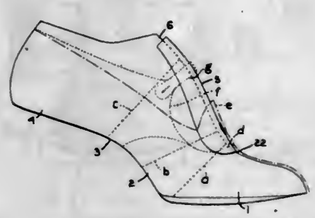
slots, the cylinder wall provided on the interior with a plane face constituting a knife seat, the interior end of said knife seat provided with a groove, a knife holding bar provided at its inner end with a retaining rib engaging in said groove, a knife clamped by said bar to said seat and the clamping face of said bar having a taper from its toe rearward for the purpose mentioned.

1,785,152. OVERSHOT. FREDERICK STONE, Los Angeles, and ALBERT L. STONE, Redondo Beach, Calif., assignors to Doheny-Stone Drill Co., Los Angeles, Calif., a Corporation of Delaware. Filed May 25, 1929. Serial No. 365,910. 17 Claims. (Cl. 294—102.)



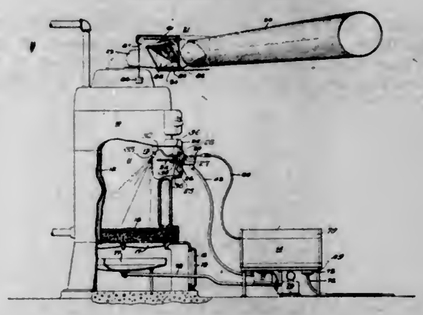
1. In a fishing tool, a barrel adapted to take work within its bore, there being a slip socket in the barrel bore and having downwardly and inwardly converging walls, a plurality of wedge slips mounted in the slip socket for bodily individual movement along said walls longitudinally of the barrel and hence radially with respect thereto, means for introducing fluid under pressure to said bore, said slips being movable downwardly and hence radially inwardly with respect to the barrel under the influence of hydraulic pressure applied through the barrel bore.

1,785,153. INCREASER FOR LASTS. JOHN E. SWANSON, Jamaica Plain, Mass. Filed Dec. 9, 1927. Serial No. 238,802. 2 Claims. (Cl. 12—137.)



1. An increaser for lasts comprising a pad of resilient fibrous material permanently curved to conform to the waist portion of the comb of the last with its lateral and lower edges tapered to merge into the curvature of the last, a stud having a split and slightly expanded lower end adapted frictionally and detachably to engage a socket in the last and having a reduced upper end portion extending through said pad and presenting a shoulder beneath said pad, a washer on said reduced portion engaging said shoulder and the under face of the pad, a washer on said stud engaging the upper face of the pad and curved to conform to the surface of the pad and countersunk therein with the end of the stud expanded upon said upper washer, said pad having an aperture therethrough adjacent to said washers to permit the introduction of the end of a detaching tool below the lower washer whereby the pad may be removed without distorting or otherwise damaging the same.

1,785,154. OIL-BURNING PROCESS. WHITMAN SYMMES, San Francisco, Calif., assignor to Anson Stiles Blake, Berkeley, Calif. Filed June 28, 1926. Serial No. 118,968. 1 Claim. (Cl. 158—117.5.)

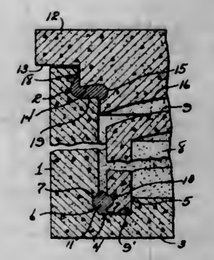


A noiseless method of burning oil utilizing a nozzle for spraying the oil, a combustion chamber, and a porous bed of loose material forming the lower wall of the combustion chamber, said method comprising inducing a draft of air upwardly through said bed, spraying oil downwardly toward said bed to maintain combustion within the chamber, and maintaining the pressure within the chamber substantially constant.

1,785,155. ZINC-CHLORIDE-BASE FLUX. EDWARD A. TAYLOR, Cleveland, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Delaware. Filed Dec. 26, 1929. Serial No. 416,757. 5 Claims. (Cl. 148—23.)

1. As a new composition of matter a soldering flux in which zinc chloride is the base, comprising zinc chloride and an alkyl naphthalene sulfonic acid compound.

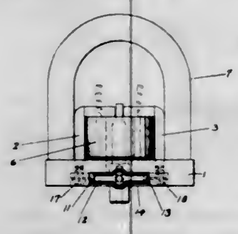
1,785,156. BURIAL VAULT. FLOYD L. TEMPLE, Terre Haute, Ind. Filed Feb. 8, 1930. Serial No. 426,934. 2 Claims. (Cl. 72—7.)



1. A reinforced concrete burial vault comprising a substantially rectangular outer body formed at its inner corner with a continuous inwardly directed pocket which reduces the outer end of the said body, said body having its inner wall at the juncture of the base thereof formed

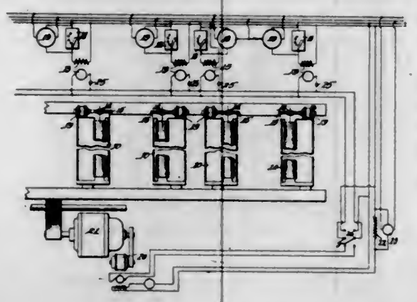
with a continuous channel whose outer wall is disposed at an angle, an inner substantially rectangular body having a continuous groove adjacent to the outer corner thereof, a plastic cement received in the channel designed to be compressed by the weight of the inner body when closed thereon to cause the said cement to enter the groove of the inner body, a sealing slab which is stepped and which has the side wall of its inner stepped portion grooved, the pocket of the outer body designed to receive therein a plastic cement which is contacted by the central shoulder of the stepped portion of the sealing slab and compressed by such contact to force the cement into the groove and into the joint between the outer stepped portion of the slab and the top of the outer body.

1,785,157. ELECTRIC PICKUP FOR PHONOGRAPH RECORDS. HERBERT JOSEPH TOEGEL, Elizabeth, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Filed May 19, 1928. Serial No. 278,989. 6 Claims. (Cl. 179—100.41.)



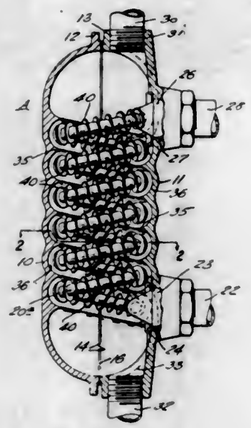
4. In a device of the class described, a base, a magnet positioned on the base, a generating coil disposed on the base between the limbs of the magnet, a pair of pole pieces for the magnet having free ends extending over the end of said coil which is farthest from the base and turned toward its axial center, a pair of pieces of flexible material, a plate positioned between said pair of pieces and substantially enclosed thereby and having a stem forming a core for said coil and having its extremity positioned between said pair of pole pieces, a clamp extending over said plate and resting against one of said pieces for adjustably mounting the said two pieces and plate to the base and a socket member attached to the plate and adapted to receive a record-playing needle.

1,785,158. INK-FOUNTAIN DRIVE. ISIDOR TORNBERG, Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Sept. 23, 1927. Serial No. 221,453. Renewed May 9, 1930. 7 Claims. (Cl. 101—350.)



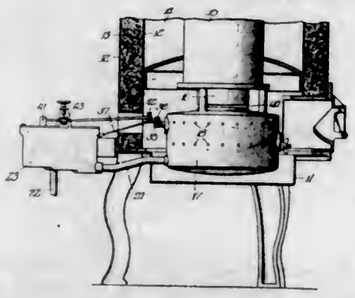
1. In a printing press, the combination with a main motor for driving the press, and a plurality of ink fountain cylinder motors, of a generator driven by the main motor, and means for conducting the current from the generator to the ink fountain cylinder motor armatures to drive them.

1,785,159. HEAT-INTERCHANGE DEVICE. HERBERT G. ULLMAN, Tuckahoe, N. Y. Filed Sept. 14, 1927. Serial No. 219,454. 5 Claims. (Cl. 257—229.)



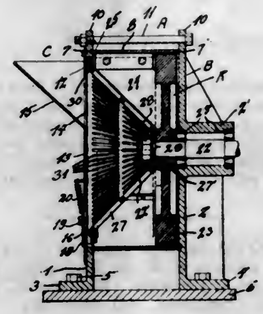
1. In a heat interchange device, a hollow coil composed of a plurality of spaced turns through which a fluid medium is passed, a casing extending about said coil and into which a second fluid medium enters and passes over said coil, said casing having an inner surface disposed in spaced relation to the outer side of said coil, said surface being formed with ribs extending inwardly between the turns of said coil at the outer side thereof so as to leave the inner side of said coil unobstructed and said ribs being spaced from said coil for directing fluid in said casing away from said surface between and over said turns of said coil towards the inner unobstructed side thereof, for the purpose set forth.

1,785,160. FUEL-FEED CONTROL. BEN VALJEAN, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a Corporation of Michigan. Filed Sept. 19, 1929. Serial No. 393,627. 3 Claims. (Cl. 236—15.)



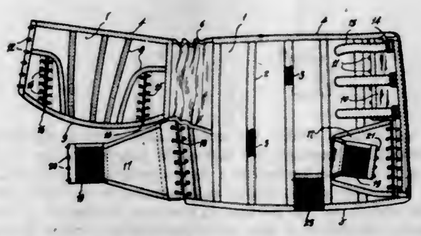
1. The combination with a fluid fuel burner of the carburetor type and a fuel supply passage, of means for automatically controlling the supply of fuel to the pilot and to the burner, said control means comprising a thermostatic device disposed within the carbureting chamber of the burner above the pilot and below the normal flame area, independently acting valves in the fuel supply passage, a connection between each of the valves and the thermostat whereby to open and close the pilot valve to a greater or less extent to maintain a uniform degree of heat at the pilot in the absence of flame within the burner proper, to increase the flow of fuel to the burner in the intermediate stage when there is flame in the burner proper and again to decrease the flow of fuel to the burner when the base of the flame rises above the burner proper as in normal operation.

1,785,161. SAND SCREEN. WALTER H. WANGELIN, St. Louis, Mo. Filed Oct. 15, 1928. Serial No. 312,449. 4 Claims. (Cl. 209—279.)



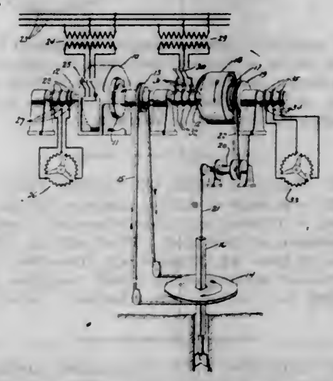
1. A sand screen comprising a housing having inlet and discharge openings, an impeller arranged for rotary movement within said housing by which sand is forcibly driven from said housing through the discharge opening thereof, a conical sieve located within said housing through which the sand passes before being acted on by said impeller, said sieve being rotatable with said impeller, and a fly wheel located within said housing immediately adjacent to and rotatable with said impeller.

1,785,162. ABDOMINAL SUPPORT OR CORSET. VIRGINIA A. WHITE, Dallas, Tex. Filed May 23, 1929. Serial No. 365,262. 1 Claim. (Cl. 2—41.)



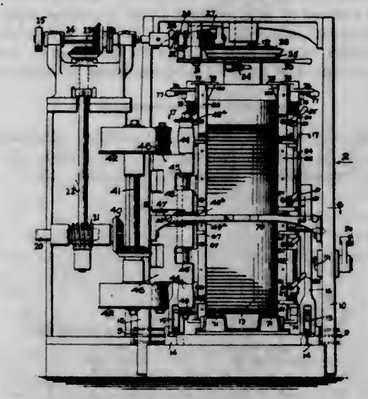
A corset having a suitably braced body portion encircling the back of the figure and overlapping the hips, the upper edge of the corset being on the waistline of the figure and the lower edge of the corset extending to a point below the hips, pliable connecting strips at each side of the body portion, an abdominal supporter connecting said pliable side strips, said abdominal support having an unbroken front and a lower edge curved to follow the contour of the lower part of the abdomen, a quick detachable means at one side only of said abdominal support, comprising hook and eye members, buckle and strap means for relatively permanently adjusting said pliable connecting strips, means for adjusting the lower part only of said abdominal support, comprising a pair of laced slits, one adjacent each side thereof, and extending partway from the lower edge of the abdomen support upwardly, but terminating short of the waistline, and wing portions connected to the body portion of the corset located below and separate from the abdominal support, said wing portions having adjusting means for the control of the hips, the adjusting means comprising a pair of laced slits located immediately below said pliable connecting side strips.

1,785,163. WELL-DRILLING EQUIPMENT. ROY WILKINS, San Francisco, Calif. Filed Feb. 11, 1928. Serial No. 253,606. 12 Claims. (Cl. 255—19.)



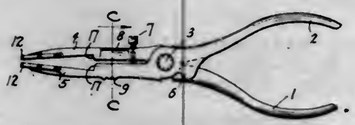
1. A motive power unit for driving a cutting tool comprising a main driving motor, a cutting tool adapted to be driven by said motor, a means for controlling the feed of the cutting tool, a second motor having its rotor directly connected to the rotor of said first motor for regulating the feed of said cutting tool with respect to the work, and means whereby the stator of said second motor can rotate with respect to its rotor to thereby control the feed controlling means of said cutting tool.

1,785,164. MULTIPLE-STEREOTYPE-PLATE-CASTING MACHINE. HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Continuation of application Serial No. 568,137, filed June 14, 1922. Renewed Sept. 22, 1926. This application filed Apr. 9, 1927. Serial No. 182,525. 39 Claims. (Cl. 22—3.)



1. As an article of manufacture, a stereotype printing plate mold having means connected with the parts thereof for holding two stereotype matrices and leaving a metal receiving space between their ends to permit casting two complete stereotype printing plates integrally connected end to end.

1,785,165. PROCESS AND APPARATUS FOR REGULATION OF TONE-PRODUCING QUALITY OF HAMMERS IN STRINGED MUSICAL INSTRUMENTS. CHARLES CARLTON WOODS, Denver, Colo. Filed May 18, 1928. Serial No. 278,858. 8 Claims. (Cl. 84—460.)

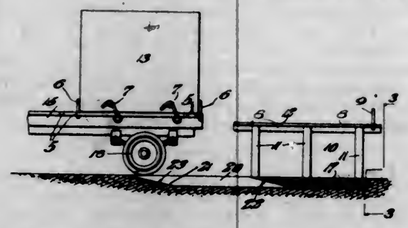


1. The process of voicing musical instrument hammers formed in layers comprising subjecting the opposite sides of the hammer simultaneously to a relatively opposed massaging action against the edges of the layers and then shaping the edge of the hammer.

1,785,166. MANUFACTURE OF ESTERS FROM ALDEHYDES. CHARLES O. YOUNG, Jackson Heights, N. Y., assignor to Carbide & Carbon Chemicals Corporation, a Corporation of New York. Filed July 14, 1925. Serial No. 43,616. 11 Claims. (Cl. 260—106.)

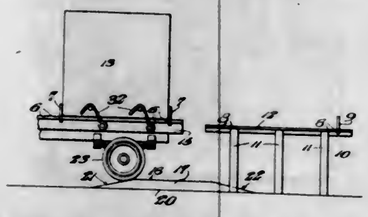
1. Process of making esters which comprises bringing an aldehyde into contact with aluminum butoxide as a catalyst.

1,785,167. LOADING AND UNLOADING APPARATUS. CHARLES D. YOUNG, Wayne, Pa. Filed Sept. 17, 1928. Serial No. 306,547. 12 Claims. (Cl. 254—45.)



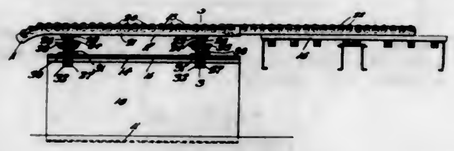
1. A container handling apparatus comprising the combination of a vehicle for supporting a container, a fixed support for said container, a roadway having trackways for said vehicle leading to said support, and removable blocks respectively in said trackways to lower the supporting surface of said vehicle below the supporting level of said support whereby movement of said vehicle towards said support causes said surface to lower at a predetermined location and transfer said container to said support.

1,785,168. LOADING AND UNLOADING APPARATUS. CHARLES D. YOUNG, Wayne, Pa. Filed Sept. 17, 1928. Serial No. 306,548. 6 Claims. (Cl. 254—45.)



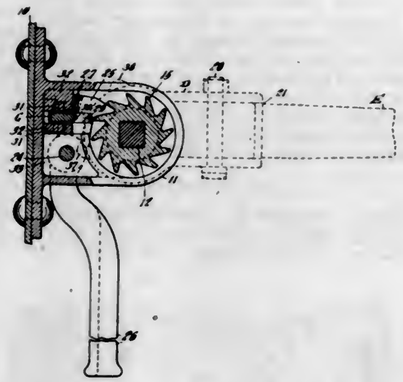
1. A container handling apparatus comprising in combination a movable platform for supporting a container, a fixed support for said container, and means including a plurality of blocks arranged to be placed on the surface of a roadway for varying the level of said roadway adjacent said fixed support whereby movement of said platform along said roadway a distance substantially equal to the length of said container causes said container to be automatically transferred from one supporting medium to the other.

1,785,169. RAMP-RAIL CONSTRUCTION. CHARLES D. YOUNG, Wayne, Pa. Filed Jan. 18, 1929. Serial No. 333,332. 3 Claims. (Cl. 214—38.)



1. In a container transfer system, a fixed frame, a plurality of feed screws mounted on said frame for movement relative thereto, a ramp rail supported by said feed screws, leader nuts respectively on said feed screws and thrusting against said frame, and means for manually turning said nuts to raise or lower said rail with respect to said frame.

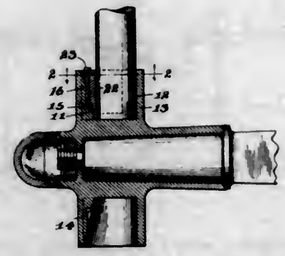
1,785,170. HAND BRAKE. CHARLES A. ZWEIBEL, Louisville, Ky., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Dec. 5, 1928. Serial No. 323,821. 3 Claims. (Cl. 74—116.)



1. In a hand brake, the combination with a rotatable chain-winding member; of means for intermittently rotating said member, including a lever-operated carrier rotatably mounted to turn about said member in reverse directions; means for preventing unwinding movement of said member, including a dog and cooperating ratchet means the ratchet means being fixed to the chain winding member; spring means for holding said dog in engagement with the ratchet means, said dog being movable to inoperative position to permit free rotation of said member; a latch element for locking the dog in inoperative position; and means on the carrier for unlocking said latch element from the dog upon movement of the carrier in either of said reverse directions.

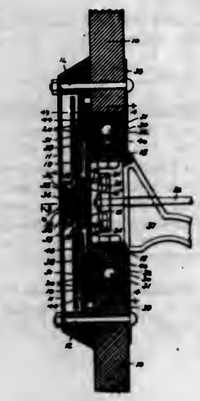
1,785,171. SPOKE. MATHIAS J. ADAMS and PETER PAUL ADAMS, Turkey River, Iowa, assignors of one-fourth to Adams Patent Wheel Co., Turkey River, Iowa. Filed Nov. 23, 1928. Serial No. 321,438. 3 Claims. (Cl. 301—81.)

3. A hub and spoke connection comprising a socket upon the hub having an inclined surface upon one side of the recess therein, a wedge member cooperating with said inclined surface to jam the inner end of the spoke against



the opposite side of the recess and means passing through the wedge member and anchored in the inclined surface for holding the wedge member within the recess.

1,785,172. FRONT-WHEEL GUIDE AND BRAKE. PETER PAUL ADAMS, Turkey River, Iowa. Filed May 5, 1928. Serial No. 275,459. 3 Claims. (Cl. 188—194.)

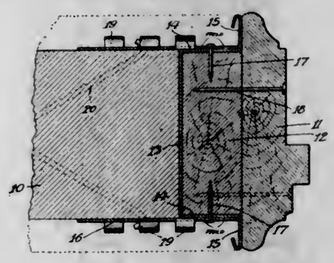


1. In a vehicle wheel brake, a pivotally mounted axle carried non-rotatable brake disk, a second non-rotatable brake disk spaced therefrom, means to mount the second disk for movement toward and away from the first mentioned disk, means to move said second mentioned disk, and a dished, wheel carried, brake disk positioned between and normally spaced from the first and second mentioned disks and engageable with the latter when the second mentioned disk is moved in one direction.

1,785,173. SOLDERING FLUX. HAROLD J. BARRETT, Wilmington, Del., assignor, by mesne assignments, to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Delaware. Filed May 7, 1930. Serial No. 450,596. 6 Claims. (Cl. 148—23.)

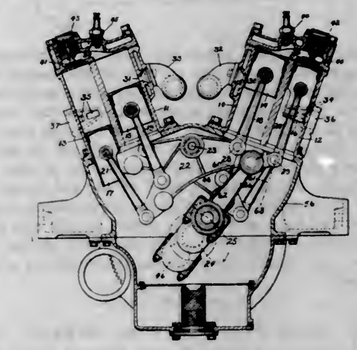
1. In a process of soft soldering, the step of applying a flux comprising a polymerized organic ester of vinyl alcohol.

1,785,174. DOORFRAME. ISAAC A. BAUM, Chicago, Ill. Filed Mar. 25, 1929. Serial No. 349,634. 6 Claims. (Cl. 72—98.)



1. In frame construction, the combination of a channel shaped buck, and a continuous strip welded to a flange of the channel and extending rearwardly a substantial distance beyond the limits of the channel in line with the flange, and plaster anchors formed in said strip.

1,785,175. TWO-CYCLE V MOTOR. EDWARD H. BELDEN, Toledo, Ohio, assignor to Belden Patents Incorporated, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 21, 1923. Serial No. 682,001. 18 Claims. (Cl. 123—54.)

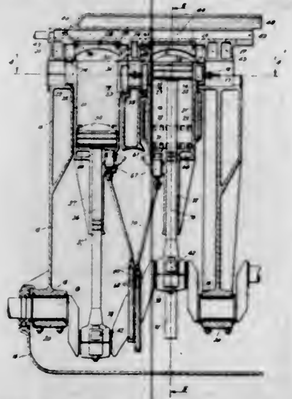


1. In an internal combustion motor, a working cylinder and piston, a charging cylinder and piston at one side of and substantially parallel with the working cylinder, there being a port connecting adjacent ends of the two cylinders, and an inlet port uncovered by the movement of the charging piston near the end of its travel away from the connecting port, and connections to move the charging piston simultaneously with and always in the same direction as the working piston.

1,785,176. INTERNAL-COMBUSTION ENGINE. LEO BERNER, South Milwaukee, and PAUL LOHR, Milwaukee, Wis. Filed May 14, 1928. Serial No. 277,582. 10 Claims. (Cl. 123—42.)

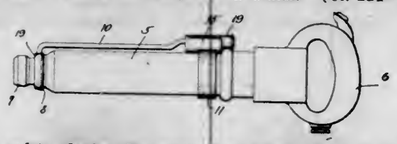
7. In an internal combustion engine, the combination of an oscillatory cylinder provided with a curved head whose center of curvature coincides with the center of oscillation of the cylinder, a semicylindrical valve of similar curvature, ports in said head and said valve, a fixed

head having a port adapted to register with said first-named ports, said cylinder having projections engageable



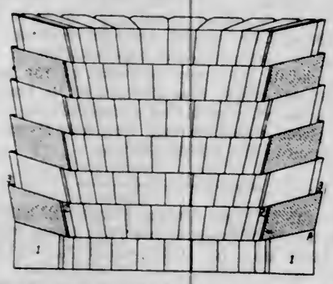
with said valve to intermittently oscillate the same, and means for otherwise restraining the movement of said valve.

1,785,177. SAFETY DEVICE FOR PNEUMATIC HAMMERS. JOHN G. BOLLOCK, Hastings, Nebr. Filed Sept. 4, 1928. Serial No. 303,915. 1 Claim. (Cl. 121—32.)



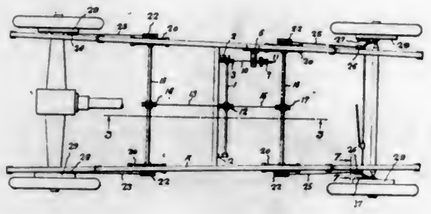
A safety device for pneumatic hammers, including a supporting barrel, the upper portion of the barrel being cut away throughout its length and having a notch in one end of the body portion, a removable tubular housing positioned in the barrel, a rod having a head on one of its ends and having a ring on the opposite end to embrace the hammer plunger with which the device is used, said rod resting in the notch, the head of the rod being positioned in the housing, a coiled spring surrounding one end of the rod and held between the head and one end of the barrel to normally hold the rod to the limit of one of its movements, and means for clamping the device to a pneumatic hammer.

1,785,178. WALL FOR REACTION TOWERS. FREDERICK J. BOWMAN, Cleveland, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Delaware. Filed Apr. 29, 1929. Serial No. 359,141. 7 Claims. (Cl. 23—283.)



1. Walls of reaction towers formed of blocks of building material in which the joints between the blocks drain towards the inside of the tower and in which the joints are widened at the outside of the walls to form grooves and ledges.

1,785,179. EQUALIZING SYSTEM FOR FOUR-WHEEL BRAKES. BERNARD CARLIN, Pensacola, Fla. Filed July 18, 1928. Serial No. 293,533. 2 Claims. (Cl. 188—204.)



2. In combination with a vehicle having braking means associated with each wheel thereof, a pair of shafts, yieldable means for supporting the shafts whereby they can move toward and away from the front and rear axles of the vehicle, means for connecting the shafts with the brake means whereby rotary movement of the shafts will actuate the brake means, a third shaft, manually operated means for rotating the same and means for communicating the movement of the third shaft to the other two shafts.

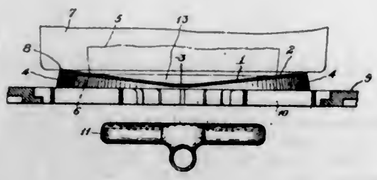
1,785,180. FLUX FOR USE IN SOLDERING. HARRY P. CORSON, Lakewood, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Delaware. Filed Dec. 26, 1929. Serial No. 416,754. 3 Claims. (Cl. 148—23.)

1. In a process of soft soldering metals the step of applying a soldering flux comprising a sulfonated vegetable oil compound.

1,785,181. SOFT SOLDERING FLUX. HARRY P. CORSON, Lakewood, and EARL S. RIDLER, Shaker Heights, Ohio, assignors to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Delaware. Filed Dec. 26, 1929. Serial No. 416,755. 4 Claims. (Cl. 148—23.)

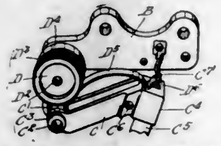
1. In a process of soft soldering metals the step of applying a flux comprising zinc chloride and an aldehdye.

1,785,182. BASE MEMBER FOR USE WITH COOKING VESSELS. EARL V. COULSTON, Shaker Heights, Ohio. Filed July 11, 1928. Serial No. 291,987. 1 Claim. (Cl. 126—215.)



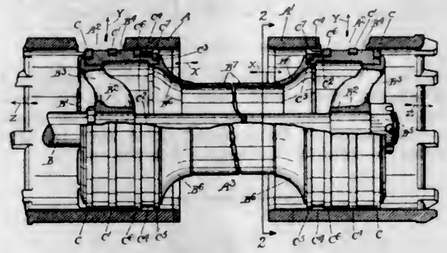
A base member for use with cooking vessels, consisting of an imperforate plate having a concave upper surface and an upwardly-inclined bottom surface, said upper surface radiating in all directions from its center by the same inclination, and a peripheral supporting flange downwardly-extended from said plate to a point below said center, whereby a circular vessel having a plane bottom will rest upon the plate by a line contact, and whereby an air pocket will be formed within the line of contact and between the plate and vessel.

1,785,183. BRUSH HOLDER FOR ELECTRICAL MACHINES. CHARLES W. DAKE, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a Corporation of New Jersey. Filed Oct. 15, 1926. Serial No. 141,765. 7 Claims. (Cl. 171—324.)



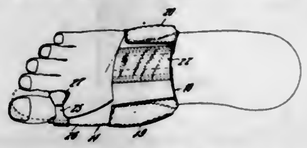
1. In a brush holder, a supporting plate, pins projecting therefrom, a brush holding arm pivoted on one pin, a brush carried by the arm, a tension member rotatable on the other pin, an arm projecting from the tension member engaging the free end of the brush holding arm and means for adjusting the tension therein, said means comprising a drum, a spring wound about the drum and interposed between it and the tension arm and means for locking the drum in adjusted position.

1,785,184. DISTRIBUTION VALVE. CHARLES W. DAKE, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a Corporation of New Jersey. Filed Mar. 16, 1928. Serial No. 262,247. 6 Claims. (Cl. 121—142.)



1. A distribution valve mechanism for steam engines and the like, comprising a ported bushing, a piston adapted to reciprocate therein, a spring ring mounted on the piston, a peripheral channel in the outer face of the ring, and a longitudinal channel extending through one side of the ring and joining the peripheral channel.

1,785,185. BUNION CORRECTOR. JEREMIAH C. DAY, Lexington, Ky. Filed Jan. 15, 1927, Serial No. 161,420. Renewed May 3, 1930. 1 Claim. (Cl. 128—81.)



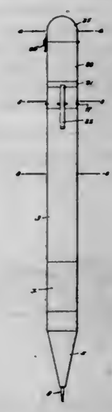
In a bunion corrector, a band adapted to encircle the foot around the metatarsal joints, and including a strip of elastic webbing to permit the band to yield when pressure is exerted upon the foot, a pad arranged centrally of the band and located beneath the foot, pads arranged at the opposite sides of the band to bear against the first and fifth metatarsal joints and to provide an anterior metatarsal support, an extension projecting forwardly from one side and the adjacent portion of the forward edge of the bottom edge of the band and arranged along the side of the foot adjacent the great toe and extending beneath the foot, a great toe encircling band carried by the extension, whereby an outward pull is exerted upon said toe when the band is extended under the pressure of the foot, and a pad carried by the toe encircling band and positioned between the great toe and next adjacent toe.

1,785,186. BUTTON RECEPTACLE. JAMES C. DAY, South Orange, N. J., assignor to The Whitehead and Hoag Company, Newark, N. J., a Corporation of New Jersey. Filed July 16, 1928. Serial No. 293,133. 11 Claims. (Cl. 40—10.)



1. In a device of the class described, a front plate, a back plate connected and having its central portion in spaced relation thereto to form a pocket, a fastening means positioned in the back plate, an aperture through the back plate communicating with the pocket to permit the introduction of an article therein, a portion of the back plate return bent on itself to hold the fastening means in position, and additional portions of the back plate return bent to hold in position the first mentioned return bent portion.

1,785,187. COMBINATION PENCIL. FRANCISCO DE LA TORRE, Chicago, Ill. Filed Oct. 1, 1929. Serial No. 396,498. 1 Claim. (Cl. 206—38.)



A device of the class described having a tubular body portion constituting a chamber having an opening therein, a closure for said opening hingedly secured to the tubular body portion, and a resilient retaining clip rotatably mounted on the tubular body portion in a manner to be shifted for engagement over the closure for retaining the same in its closed position said clip being further adapted to engage the side portions of the tubular body for detachably retaining the device in a pocket.

1,785,188. METHOD OF CONNECTING SPRINGS. ANTHONY GERLOWSKI, Chicago, Ill., assignor to The Rome Company, Inc., a Corporation of New York. Filed July 29, 1929. Serial No. 382,059. 1 Claim. (Cl. 140—3.)

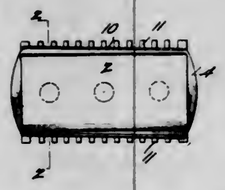
The method of making a connection between the wire of a spring and a small helical spring, which consists in

screwing the free helical end of a helical spring upon the wire until said end passes a short distance beyond the wire on the side on which the helical spring is located, and then pressing together the free end of the helical



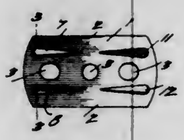
spring and the portion of the helical spring about 180 degrees distant therefrom to form a closed eye and twisting the eye to cause it to extend more or less in the direction of the spring.

1,785,189. RAZOR. PAUL D. GRISARD, Poughkeepsie, N. Y. Filed Apr. 24, 1929, Serial No. 357,789. Renewed Oct. 27, 1930. 6 Claims. (Cl. 30—12.)



1. A safety razor including clamping elements, a flexible blade with which the clamping elements cooperate, the blade in its initial cooperation with such elements having its cutting edge in parallel relation to the edges of such elements, and means formed on said elements to compel the cutting edge of the blade to assume a diagonal relation to the edges of said clamping means.

1,785,190. RAZOR. PAUL D. GRISARD, Poughkeepsie, N. Y. Filed Feb. 19, 1930. Serial No. 429,727. 8 Claims. (Cl. 30—12.)



1. A safety razor including a clamp and a guard plate, a blade to be confined between and clamped by the clamp and guard plate, the respective surfaces of the blade engaged by the clamp and guard plate being formed to compel the blade on the respective sides of the longitudinal median line to present different degrees of curvature under the clamping action whereby under such clamping action and incident to the different degrees of curvature the cutting edge of the blade will be positioned on a line diagonal to the line passing through the free ends of the guard plate when the blade is in clamped position.

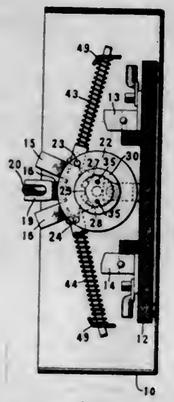
1,785,191. KITCHEN UTENSIL. CLYDE H. HALE, Riverside, and HENRY J. KLEEFISCH, Oak Park, Ill. Filed Feb. 27, 1928. Serial No. 257,162. 1 Claim. (Cl. 7—1.)

A kitchen utensil comprising in combination a fork having a shank of reduced size fixedly connected therewith, a pair of sharpening members having cutting edges in angularly spaced relation mounted on said shank adjacent to the fork, a guard plate on said shank adjacent to said sharpening members, an elongated sleeve on said shank next to said guard plate, a nut secured by screw threads



on the end of said shank serving by engagement with said sleeve to hold said sharpening members in tightened position against the fork, and a handle provided with a socket in which said shank and said sleeve are secured.

1,785,192. DOUBLE-THROW SWITCH. HERMAN J. HAMMERLY, Wallingford, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a Corporation of Connecticut. Filed July 18, 1928. Serial No. 293,675. 12 Claims. (Cl. 200—67.)

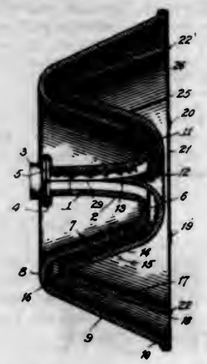


1. An electric switch including an operating crank, supporting means therefor, an operating handle, quick-make and break mechanism coacting between said handle and said crank and including two independent and detachably mounted throwing members each of which has a lost motion connection with the other movable parts of the said mechanism, and detachable means of connection between said throwing members and the means coacting therewith.

1,785,193. AMPLIFIER HORN. JESSE B. HAWLEY, Wilmette, Ill., assignor, by mesne assignments, to United Reproducers Corporation, St. Charles, Ill., a Corporation of New Jersey. Filed Sept. 27, 1924. Serial No. 740,159. 17 Claims. (Cl. 181—27.)

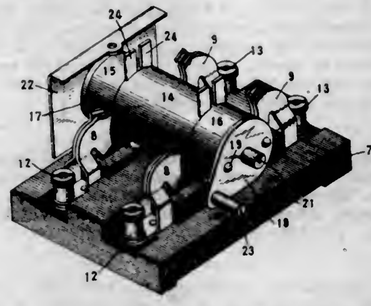
3. A sound amplifier comprising a hollow member forming sound guiding and amplifying surfaces, a diaphragm

disposed in said hollow member, a cooperative sound guiding member disposed relatively to said hollow member to direct the sound emitted by said diaphragm to am-



plify the same, said cooperative surface being vibratably mounted and spaced from said diaphragm, and means for connecting said diaphragm and said cooperative member to cause said cooperative member to vibrate.

1,785,194. MULTIPLE-BREAK SWITCH. HERMAN J. HAMMERLY, Wallingford, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a Corporation. Filed Jan. 15, 1930. Serial No. 420,927. 7 Claims. (Cl. 200—162.)



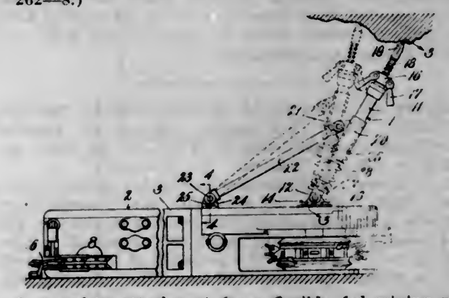
1. In a double break switch unit the combination of oppositely disposed stationary contacts, an insulating carrier mounted between the contacts and a switch blade carried by the carrier and consisting of two separately movable conducting bars having their ends projecting from opposite sides of the carrier.

1,785,195. CHAFFER FOR THRASHING MACHINES AND GRAIN HARVESTERS. JAMES W. HOES and HOWARD CRONK, Sidney, Nebr., assignors, by direct and mesne assignments, to The Wind-Blast Chaffer Company, Sidney, Nebr., a Corporation of Nebraska. Filed Feb. 7, 1928. Serial No. 252,458. 2 Claims. (Cl. 209—312.)



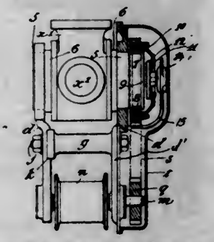
1. In a chaffer, a box, a series of perforated screen-sections therein, spaced from each other at adjacent ends to provide openings for the passage of air, valves controlling the passage of air through the openings, and means for simultaneous adjustment of the valves.

1,785,196. MINING MACHINE. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Sept. 13, 1929. Serial No. 392,332. 18 Claims. (Cl. 262—8.)



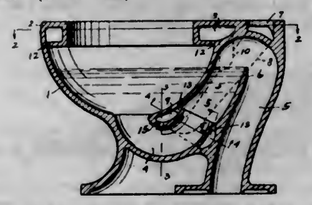
1. A safety attachment for a flexibly fed mining machine including a pivoted abutment engaging element adapted for connection to the frame of a mining machine, an element adjustably connected to said pivoted element, a link connection between said element and the frame of the mining machine, and resilient means acting on said adjustable element for urging said pivoted element into its operative position.

1,785,197. POWER-TRANSMISSION GEARING FOR USE ON RAILWAY AND OTHER VEHICLES. ALFRED EDWARD HONEY, Ilford, England, assignor to J. Stone & Company Limited, Deptford, England, a Corporation of Great Britain. Filed Feb. 3, 1928, Serial No. 251,631, and in Great Britain Feb. 9, 1927. 9 Claims. (Cl. 105—105.)



1. Power transmission gearing for use on railway and like vehicles for transmitting power from a running axle to a piece of apparatus on such vehicle, said gearing comprising an elongated two-sided frame pivotally suspended from the said piece of apparatus, a pulley revolubly mounted in bearings in the lower part of the side members of said frame, a gear revolubly mounted coaxially with the suspension pivot and operatively connected with the spindle of the driven piece of apparatus, transmission gearing between said pulley and said gear, and a cross frame member spacing the side frame members apart.

1,785,198. WATER-CLOSET BOWL. HOWARD F. KELSO, Houston, Tex. Filed Nov. 25, 1929. Serial No. 409,524. 4 Claims. (Cl. 4—73.)



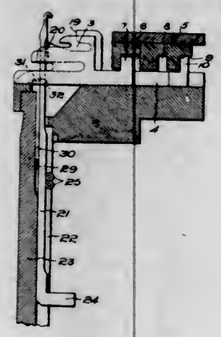
1. A water closet bowl having a trap formed with an outlet passageway through which the contents of the bowl

may be discharged, there being inlet side channels terminating in series of correspondingly inclined outlet openings arranged about said outlet passageway and also a passageway leading from each channel and merging into common outlet openings arranged about the bowl, said outlet openings being disposed to direct the finishing fluid, in spiralled fashion, about the walls of said bowl, and outlet passageway, respectively.

1,785,199. MANUFACTURE OF LOW-CARBON CHROME STEEL. FRANK O. KICHLINE, Lebanon, Pa., assignor to Bethlehem Steel Company. Filed Apr. 20, 1926. Serial No. 103,377. 7 Claims. (Cl. 75—22.5.)

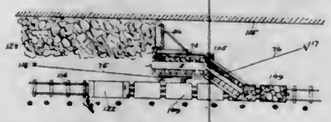
1. A process for the manufacture of low carbon chrome steel which consists in, intimately mixing comminuted pig iron containing carbon with crushed chrome ore and slag forming material, and fuzing the mixture in an electric furnace, so as to effect a reduction of chromium from the ore through the influence of the carbon in the pig iron.

1,785,200. MECHANISM FOR CONTROLLING KNITTING NEEDLES IN PLATING OPERATIONS. JOHN LAWSON and ROBERT H. LAWSON, Pawtucket, R. I., assignors to Hemphill Company, Pawtucket, R. I., a Corporation of Massachusetts. Original application filed Mar. 10, 1927, Serial No. 174,176. Divided and this application filed Mar. 23, 1929. Serial No. 349,360. 7 Claims. (Cl. 66—36.)



1. In a knitting machine having a series of independent needles and having means to feed two threads thereto in a plating relation, a series of instrumentalities one for each needle and movable in and out in knitting relation, each of said instrumentalities being recessed and a jack or element in the groove of the corresponding needle at the back of the latter and engaging said recess whereby outward movement of said instrumentality causes outward movement of the corresponding needle by reason of movement of said jack.

1,785,201. COAL-LOADING MACHINE. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Aug. 8, 1924, Serial No. 730,951. Renewed Mar. 27, 1930. 27 Claims. (Cl. 262—28.)



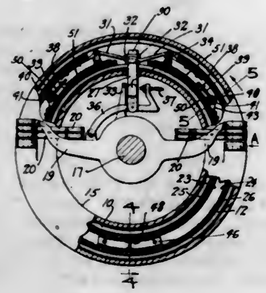
1. In a machine of the class described, the combination with a conveyor trough, of a series of continuously moving carrier elements adapted to slide over the mine floor in front of the forward end of said trough to pass beneath and lift loose material from the mine floor and carry it into and along said trough, laterally extending gathering means to move loose material into the path of said carrier elements, and means to bodily advance the machine to engage said gathering means with said material.

1,785,202. ELECTRIC ACCUMULATOR. CARL HILDING OSSIAN LUBECK, Stockholm, Sweden. Filed Oct. 21, 1925, Serial No. 63,982, and in Sweden Oct. 31, 1924. 5 Claims. (Cl. 136—81.)



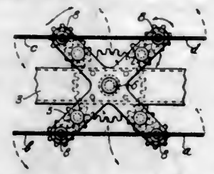
1. In a storage battery in combination a number of positive electrodes having the active mass enclosed between perforated cover plates and corresponding negative electrodes assembled into a group, intermediate spacing members of insulating material disposed between the electrodes at those points, where the electrodes tend to belly owing to the tendency of swelling of the active mass, a pair of press plates bearing each against one of the outermost electrodes and members connecting said press plates and adapted to take up, through the medium of the spacing members and the press plates, the inner pressure produced by the tendency of swelling.

1,785,203. BRAKE MECHANISM. ABRAM E. MINIUM, Denver, Colo., assignor of one-half to Gustave J. Ornauer, Theodore E. Syman, and Walter J. Heath, Denver, Colo. Filed Oct. 11, 1929. Serial No. 398,951. 1 Claim. (Cl. 188—75.)



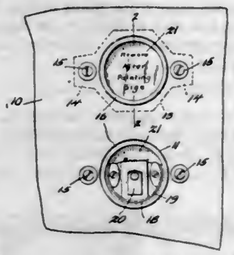
Brake mechanism comprising a rotary body having brake faces, brake bands cooperative with said faces, mechanism for the simultaneous expansion and contraction of the brake bands, including bell cranks fulcrumed at the ends of one of the bands, lugs at the end portions of the other band, members slidable upon the last mentioned band, in pivotal connection with the bell cranks, and adjusting screws for the members, mounted on the lugs, a housing for the brake faces and the brake bands, and means for rotation of the adjusting screws, exteriorly of the housing.

1,785,204. CHANGEABLE SIGN. OLIVER J. NELSON and FREDERICK G. BAENDER, Parsons, Kans., assignors, by mesne assignments, to Fred G. Baender, trustee, Parsons, Kans. Filed Mar. 31, 1927. Serial No. 179,741. 17 Claims. (Cl. 40—76.)



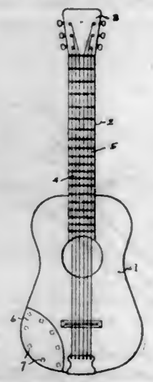
1. A changeable sign comprising, a rotatable carrier, panels rotatable on said carrier and arranged to be shifted into alignment with their adjacent edges in close relation, means for intermittently shifting said carrier, and planetary gearing connected to said panels to reverse same at each shift of said carrier.

1,785,205. LAMP RECEPTACLE. COLEMAN LINDZEY NICHOLSON, 2d, Syracuse, N. Y., assignor to Pass & Seymour, Inc., Solvay, N. Y., a Corporation of New York. Filed Aug. 13, 1928. Serial No. 299,418. 2 Claims. (Cl. 173—335.)



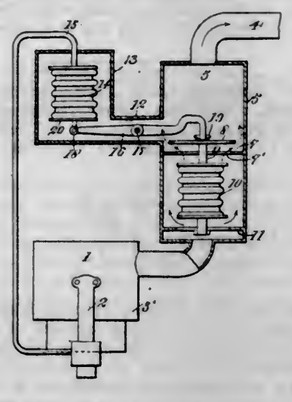
1. In a lamp receptacle having an insulation block provided with a recess, a screw shell contact in said recess below the mouth thereof and a removable disk frictionally engaging the wall of said recess near the mouth to retain the disk in position and sealing the recess to protect the contact.

1,785,206. MUSICAL INSTRUMENT. ANTOINETTE E. OVERTON, Houston, Tex. Filed Aug. 23, 1927. Serial No. 214,824. 3 Claims. (Cl. 84—328.)



1. In a stringed musical instrument having a body, a neck and a bridge on said body; an arm rest spaced from the body, and located remote from the neck and to one side of said bridge and legs formed of cushioning material arranged under the margins of said rest and resting on the top of said body and supporting the rest on said body.

1,785,207. MOTOR - TEMPERATURE - CONTROLLING MEANS. STANLEY H. PAGE, Los Gatos, Calif. Filed July 11, 1927. Serial No. 204,980. 5 Claims. (Cl. 123—178.)



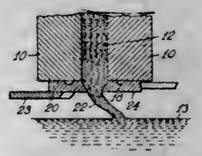
1. In combination with an internal combustion motor provided with an element for cooling the cylinder thereof and an inlet manifold, a means for controlling the cooling effect of the cooling element, a diaphragm operated by a variation of pressure in the inlet manifold, a diaphragm operated by a variation of the temperature of the cooling element, a member connecting the two diaphragms together and with said means, whereby the operation of said diaphragms actuates the means to vary the cooling effect of the cooling element to vary the temperature of the cylinder inversely with a variation in the power output thereof.

1,785,208. SMOKER'S PIPE. STEVE PAVLOFF, Camas, Wash. Filed May 1, 1929. Serial No. 359,697. 3 Claims. (Cl. 131—12.)



1. In a pipe, a bowl having a body consisting of two similar halves forming hollow semi-cylinders, a hinge securing said halves together at one side, caps each fitting over an end of the bowl to hold the halves in closed position, and a stem receiving nipple projecting from one of said caps and communicating with the interior of the bowl.

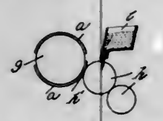
1,785,209. APPARATUS FOR GATHERING GLASS. KARL E. PEILER, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Apr. 21, 1925. Serial No. 24,789. 3 Claims. (Cl. 49—5.)



2. A split suction gathering receptacle for glass working, comprising cooperating longitudinal receptacle halves, a separate one piece annular severing member adapted to be moved into cooperative relation with the lower end of said receptacle and having an opening therein adapted to form a continuation of the receptacle cavity, said receptacle and said severing member being adapted to be

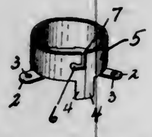
separated by a substantially vertical bodily movement of one of them with respect to the other, and a reciprocable shearing member adapted to move across the bottom surface of said annular member in synchronism with the movements of the receptacle while said annular member is in cooperative relation with the receptacle.

1,785,210. PROCESS FOR THE PRODUCTION OF PRINTING. HEINRICH RANCK, Hamburg, Germany. Filed Dec. 22, 1928, Serial No. 328,057, and in Germany Mar. 21, 1928. 2 Claims. (Cl. 101—149.)



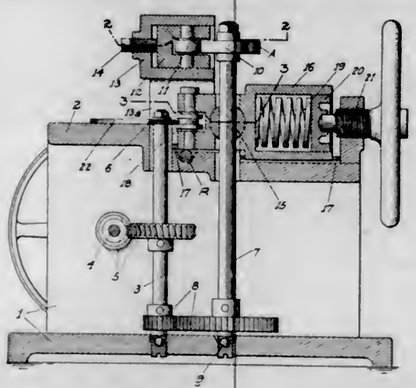
1. A process for the purpose described wherein the mercury forming the ink-repelling material of the printing plate is continually renewed during the inking of the plate, consisting in applying the mercury in finely divided form to the printing ink while such ink is on the inking roll.

1,785,211. SOCKET SLEEVE. THEODORE JOHNSON SCOFIELD, Jackson, Mich., assignor to The Sparks-Withington Company, Jackson, Mich., a Corporation of Ohio. Filed Mar. 18, 1926. Serial No. 95,607. 3 Claims. (Cl. 173—328.)



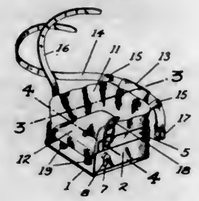
1. The method of forming socket sleeves comprising forming a blank having laterally projecting attaching lugs and spaced tube-supporting lugs extending from the same side of the blank as the attaching lugs, shaping the blank into cylindrical form, and bending the attaching lugs outwardly at substantially right angles to the axis of the cylinder.

1,785,212. PISTON-RING PEENER. JAMES SHAW, Lodi, Calif., assignor of one-third to C. H. Oehm and F. M. Oehm, Brooklyn, N. Y. Filed Mar. 23, 1928. Serial No. 264,213. 7 Claims. (Cl. 29—1.)



1. A piston-ring peener including a peening disc, means for rotating the disc, a member horizontally alined with the disc and spaced relative thereto to enable the width of a ring being received between the disc and said member, pressure means acting to force the member toward the disc to cause the ring to be frictionally engaged by the disc, and means for moving said member away from the ring at predetermined intervals against the resistance offered by the pressure means.

1,785,213. KNEE PAD. JOSEPH EMSLEY SHOTWELL, Chowchilla, Calif. Filed Aug. 12, 1930. Serial No. 474,740. 2 Claims. (Cl. 2—24.)



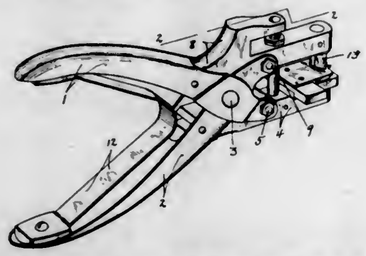
1. A knee pad comprising a primary shoe, and a secondary shoe movable within the primary shoe and normally held quiescent by a plurality of yieldable elements interposed between the bottoms of the two shoes, pivots on the secondary shoe connected with the primary shoe near the rear end thereof, the front plate of the primary shoe having a vertical slot and a stud on the front end of the secondary shoe projecting into and being movable vertically within the slot.

1,785,214. TENSION-HOLDING MEMBER FOR CONCRETE-REENFORCEMENT-TENSIONING DEVICES. HENRY SORENSEN, San Francisco, Calif. Filed Oct. 3, 1927. Serial No. 223,722. 3 Claims. (Cl. 72—128.)



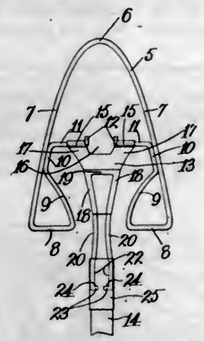
1. In a device to impart initial tension into the reenforcement of an infilled structure including means to hold said reenforcement to a support of the structure while under tension, the combination of a member adapted to strut said support against said tension, said member being isolated from the infilling, whereby said member may be removed after said infilling has set into cohesion with said reenforcement.

1,785,215. FILM PUNCH. EARL IRA SPONABLE, New York, N. Y., assignor to Fox Case Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 26, 1928. Serial No. 264,705. 3 Claims. (Cl. 164—120.)



1. In a punch for removing spliced portions of a sound record element of a sound moving picture film, a punch, a die, a back plate for positioning the punch transversely of the film, a guide plate, and means for positioning the punch longitudinally of the film, said means comprising opposed fingers extending outwardly from the guide plate and spaced apart a distance corresponding to the width of the splice.

1,785,216. REVERSIBLE MOP HEAD. LESLIE M. THORNTON, Kansas City, Mo. Filed July 26, 1928. Serial No. 295,436. 9 Claims. (Cl. 15—229.)



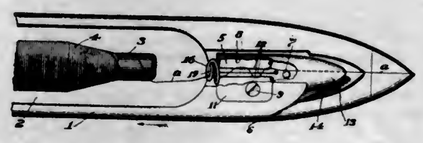
6. A mop head comprising a frame having a tapering body portion provided with a rounded forward end portion and having its greatest width at the rear end thereof, said rear end comprising a pair of spaced heel portions movable toward each other to transversely contract said frame at its portion of greatest width and a pair of aligned pivot members extending inwardly from opposite sides of said frame forwardly of said heel portions and a clip having bearings for pivotally receiving said pivot members.

1,785,217. FINGER RING. LEE M. WARGIN, St. Louis, Mo. Filed Feb. 6, 1930. Serial No. 426,323. 3 Claims. (Cl. 63—15.)



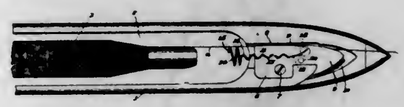
1. A finger ring including an outer composite black band and an inner supporting and reinforcing band, one edge of the outer band being flush with an adjacent edge of the inner band to present exposed edge portions of contrasting colors.

1,785,218. AUTOMATICALLY-THREADING LOOM SHUTTLE. CARL D. BROWN, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Jan. 27, 1930. Serial No. 423,658. 14 Claims. (Cl. 139—215.)



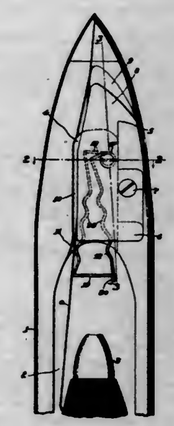
1. An automatically threading loom shuttle having a longitudinal thread passage and a side delivery eye communicating therewith, a plurality of thread tensioning members extending longitudinally of the thread passage and relatively yieldable in a direction towards and from each other, and thread guiding means to cause the thread during the first pick of the shuttle to be wrapped about the plurality of tensioning members as a unit as the thread is withdrawn from the shuttle, to thereby secure the same character of tension during the first and subsequent picks of the shuttle following replenishment.

1,785,219. AUTOMATICALLY-THREADING LOOM SHUTTLE. CARL D. BROWN, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Feb. 24, 1930. Serial No. 430,501. 10 Claims. (Cl. 139—215.)



1. An automatically threading loom shuttle having a bobbin chamber, a longitudinal thread passage and a side delivery eye communicating therewith that the shuttle may be automatically threaded, a thread tensioning member having its forward end secured to the shuttle and resiliently responsive to deflection by the thread as it is withdrawn from the shuttle, and thread director positioned between said forward end and the supply of filling for directing a plurality of coils of the thread about the resilient tensioning member as the shuttle is picked.

1,785,220. AUTOMATICALLY-THREADING LOOM SHUTTLE. CARL D. BROWN, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Feb. 24, 1930. Serial No. 430,502. 10 Claims. (Cl. 139—215.)

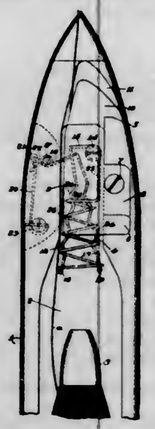


1. An automatically threading loom shuttle having a bobbin chamber, a longitudinal thread passage and a side delivery eye communicating therewith, a plurality of thread tensioning members constituted as arms extending longitudinally of the thread passage in spaced relation to each other and having their ends remote from the bobbin chamber secured to the shuttle and their ends adjacent the bobbin chamber free that the swirling thread may be wrapped about the plurality of spaced tensioning members as a unit by the swirling or revolving movement of the unwinding thread when the shuttle is picked and the tensioning members act within the thread wrappings under the pull of the thread and take up slack.

1,785,221. AUTOMATICALLY-THREADING LOOM SHUTTLE. CARL D. BROWN, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Feb. 25, 1930. Serial No. 431,236. 9 Claims. (Cl. 139—215.)

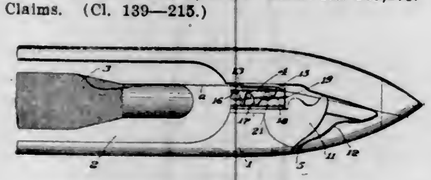
1. An automatically threading loom shuttle having a bobbin chamber, a longitudinal thread passage and a side

delivery eye communicating therewith, a plurality of thread tensioning members constituted as arms extending longitudinally of the thread passage, and a spiral unat-



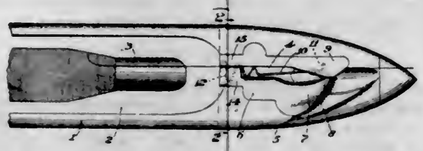
tached to and the coils of which enclose said plurality of tensioning members for directing the thread progressively about said tensioning members as a unit on the first pick of the shuttle following replenishment.

1,785,222. AUTOMATICALLY-THREADING LOOM SHUTTLE. CARL D. BROWN, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed May 2, 1930. Serial No. 449,178. 10 Claims. (Cl. 139—215.)



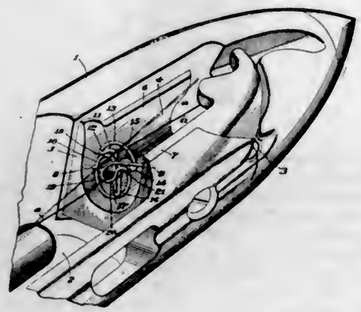
1. An automatically threading loom shuttle having a bobbin chamber, a longitudinal thread passage and a side delivery eye communicating therewith that the shuttle may be automtically threaded as the shuttle is picked, a thread tensioning member extending longitudinally of the thread passage and resiliently responsive to the pull of the thread to maintain tension thereon and take up slack during weaving, and a thread directing spiral the coils of which surround the tensioning member for progressively directing the thread about the resilient tensioning member as the shuttle is picked.

1,785,223. AUTOMATICALLY-THREADING LOOM SHUTTLE. CLARE H. DRAPER, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Feb. 25, 1930. Serial No. 431,155. 8 Claims. (Cl. 139—215.)



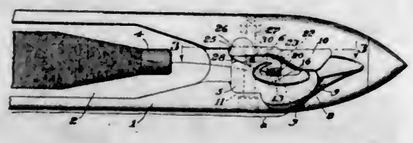
1. An automatically threading loom shuttle having a bobbin chamber, a longitudinal thread passage and a side delivery eye communicating therewith, a thread tensioning member extending longitudinally of the thread passage, an elongated spiral for directing the thread about the tensioning member, and a protecting guard extending about and over the top of the elongated spiral to prevent the thread from entanglement with the elongated spiral during weaving.

1,785,224. AUTOMATICALLY-THREADING LOOM SHUTTLE. VERNER LINDSJO, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Apr. 7, 1930. Serial No. 442,232. 8 Claims. (Cl. 139—215.)



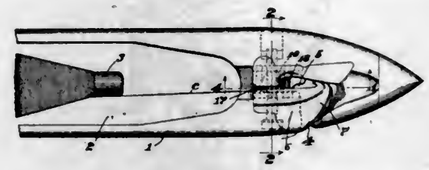
1. An automatically threading loom shuttle having a bobbin chamber, a longitudinal thread passage and a side delivery eye, a tortuous thread tension device between the bobbin chamber and side delivery eye having the ends thereof secured to the shuttle at opposite sides of the thread passage in offset relation longitudinally of the thread passage, a thread deflecting loop formed in the tension device above one secured end thereof, a thread directing loop formed below the other secured end of the tension device, and a leg between the two loops about which the thread passes from the directing loop on its way to the thread deflecting loop.

1,785,225. AUTOMATICALLY-THREADING LOOM SHUTTLE. HARRY A. DAVIS, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Dec. 27, 1929. Serial No. 416,776. 11 Claims. (Cl. 139—217.)



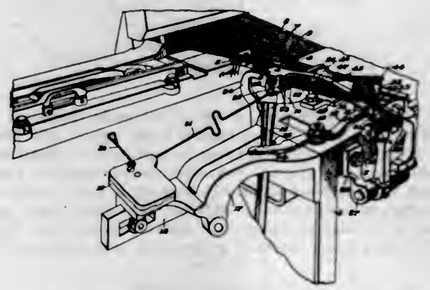
1. An automatically threading loom shuttle having a longitudinal thread passage and a side delivery eye communicating therewith that the shuttle may be automatically threaded, a thread tensioning post mounted at the point of communication between the side delivery eye and longitudinal passage, a tensioning plate supported independently of the post at the side of the thread passage opposite the tensioning post, a spring secured at the rear of the thread passage so that it is supported independently of said plate and having a forwardly extending portion bearing upon the tensioning plate that the thread may be tensioned between the post and plate as it passes about the post to the side delivery eye.

1,785,226. AUTOMATICALLY-THREADING LOOM SHUTTLE. HORACE E. WHITE and GEORGE M. F. DEPPER, Baltimore, Md., assignors to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Oct. 30, 1929. Serial No. 403,459. 8 Claims. (Cl. 139—212.)



1. An automatically threading loom shuttle having a longitudinal thread passage and side delivery eye, a thread tensioning ball loosely mounted in the longitudinal thread passage to engage and tension the thread on the first pick of the shuttle following replenishment, a ball cavity having side walls formed on curves one of which is higher than the other to cause the ball to gravitate to one side wall, a thread guide extending transversely of the thread passage above the bottom of the ball and over which the thread draws to direct the thread above the bottom of the ball and to one side thereof that the thread may be tensioned between the side of the ball and the adjacent side wall of the longitudinal thread passage during weaving.

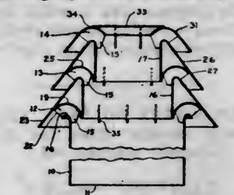
1,785,227. FILLING-REPLENISHING LOOM. FERDINAND A. F. SCHMID, Rosemary, N. C., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine, Filed Oct. 10, 1929. Serial No. 398,652. 11 Claims. (Cl. 139—230.)



1. In a filling replenishing loom, the combination of a filling feeler to detect the condition of the filling in the shuttle, a train of mechanism under control of the feeler to effect replenishment of filling when the feeler detects substantial exhaustion thereof, a filling fork mechanism to detect the presence or absence of filling in the shed, means actuated by the fork mechanism to stop the loom when the filling fork mechanism detects absence of filling, and a trip for rendering said train of mechanism inoperative to prevent the filling feeler from effecting replenishment of filling when it detects substantial exhaustion of filling and the fork mechanism detects absence of filling on the same detecting beat.

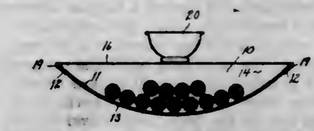
1,785,228. DISCHARGE LOUVER. HENRY F. SCHMIDT, Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 5, 1930. Serial No. 426,144. 16 Claims. (Cl. 98—66.)

1. In a ventilating louver for gaseous media, the combination of a main duct and a plurality of branch ducts for exhausting gaseous media therefrom, said branch ducts having their entrant portions facing in the direction of flow of the gaseous media through the main duct and their discharge portions extending outwardly and



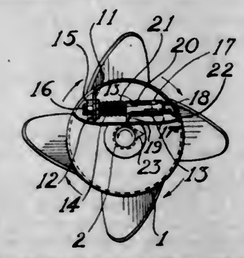
about the entire periphery of the main duct, the total flow-area of the entrant portions of said branch ducts being approximately equal to the flow-area of the main duct.

1,785,229. COMBINED DESK BLOTTER AND BOX. EMIL A. SCHUELKE, Meriden, Conn., assignor to The Napier Company, Meriden, Conn., a Corporation. Filed Sept. 30, 1929. Serial No. 396,053. 2 Claims. (Cl. 120—24.)



1. A box having a longitudinally bowed bottom provided at opposite sides with lips for the reception of ends of a strip of blotting-paper, and a cover hinged to one side of the box and provided on its top with a handle.

1,785,230. METHOD AND APPARATUS FOR CLEANING PIPE LINES. GEORGE A. SHANER and RALPH E. DAMP, Tulsa, and GEORGE G. DONOVAN, Seminole, Okla., assignors to Standard Oil Development Company, a Corporation of Delaware. Filed Sept. 18, 1929. Serial No. 392,471. 9 Claims. (Cl. 116—67.)



1. A method of cleaning pipe lines which comprises placing in the line a cleaning device, propelling the same thru the line and causing the device to energize a separate source of sound waves thereon to emit continuously sound audible at a distance.

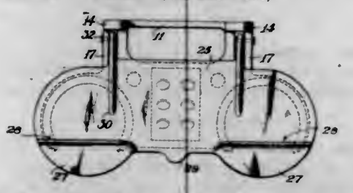
1,785,231. METAL BASE FOR NICKEL CLOCKS. JOHN O. SIMPSON, Bristol, Conn., assignor to the E. Ingraham Co., Bristol, Conn., a Corporation. Filed Nov. 2, 1928. Serial No. 316,640. 1 Claim. (Cl. 58—53.)



In combination with a clock case, a one-piece strap-like base having a mounting-reach to which the clock

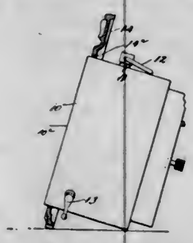
is secured, and two integral complementary feet extending downwardly from the ends of the said mounting-reach and substantially corresponding in width at their ends to the depth from front to rear of the said clock-case, whereby the clock is stabilized against tilting edgewise or flatwise.

1,785,232. MILK-BOTTLE HOLDER. RICHARD J. SIMS, Ottawa, Ontario, Canada. Filed Nov. 1, 1927. Serial No. 230,309. 1 Claim. (Cl. 248—65.)



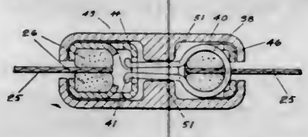
As a new article of manufacture, a holder including a one piece body constructed to provide a depending pocket open at its front side and having a bottom inturned flange inclined on its inner edges only; the material at the corners of the said pocket being turned out to form arcuate inturned flanges; the said body having a perforated arcuate depressed portion; and a cover hinged on said body to simultaneously close said pocket and the said arcuate depressed portion of the body; said cover having an upwardly offset portion at its outer edge over and projecting past the open front side of the said pocket.

1,785,233. ORNAMENTAL FRAME FOR ALARM CLOCKS. PAUL SIPTROTT, New York, N. Y. Filed May 4, 1928. Serial No. 275,034. 6 Claims. (Cl. 58—56.)



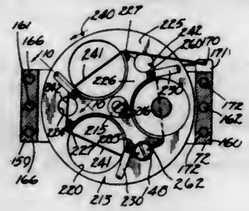
6. The combination with a clock having a casing, of a frame adapted to surround said casing, said frame having an opening therein, said opening having a bevelled wall tapering toward the front of said frame so that when said frame is mounted on said clock, the front portion of said bevelled wall forms the sole means of support of said frame on said clock.

1,785,234. SEPARABLE FASTENER. GIDEON SUNDBACK, Meadville, Pa., assignor to Hookless Fastener Company, Meadville, Pa., a Corporation of Pennsylvania. Filed Feb. 14, 1925. Serial No. 9,087. 21 Claims. (Cl. 24—205.)



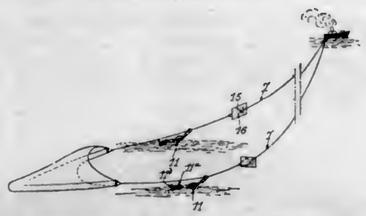
1. A slide type fastener comprising a pair of stringers having a plurality of pairs of opposed locking members, one member of each pair having a recess and the other member of each pair having resilient projections flexed to grip opposite edges of said recess.

1,785,235. VESSEL-CAPPING MACHINE. CHARLES L TURNER, Los Angeles, Calif., assignor of one-half to Ford W. Harris, Los Angeles, Calif. Filed Mar. 5, 1927. Serial No. 173,030. 27 Claims. (Cl. 226—92.)



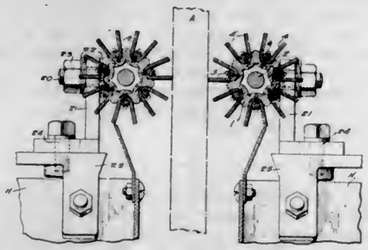
1. In a vessel capping machine, the combination of: a magazine for storing caps; a capping member movable toward a vessel for capping the same; a rotatable member for feeding a cap from said magazine into position between said capping member and said vessel; means upon said rotatable member for extending a string between said cap and said vessel; and means for cutting a piece from said string.

1,785,236. TRAWLING GEAR. JEAN-BAPTISTE JOSEPH ALPHONSE VIGNERON, La Rochelle, France, assignor to V. D. Limited, London, England. Filed Mar. 28, 1929, Serial No. 350,527, and in France May 16, 1928. 8 Claims. (Cl. 43—9.)



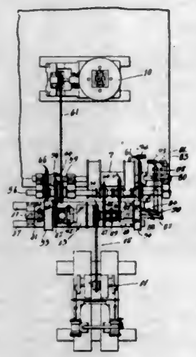
1. In a trawling gear, a net, a net cable connected to said net, a boat, a towing hawser connected to said boat, a buoyant shear board adapted to operate at a small distance above the ground, means for connecting said shear board with said net cable and hawser, a ballast member attached to said net cable adjacent said shear board and adapted to drag on the ground and a substantially cylindrical wire brush pivotally attached to said ballast member.

1,785,237. FILTER-CAKE DISCHARGER. JOSEPH V. ZENTHOEFER, Hazleton, Pa., assignor, by mesne assignments, to Oliver United Filters Inc., San Francisco, Calif., a Corporation of Nevada. Filed Feb. 15, 1927. Serial No. 168,274. 13 Claims. (Cl. 210—201.)



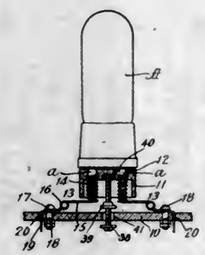
1. A device for stripping a filter cake from a filter screen comprising a rotating longitudinally grooved member, U shaped wiping members secured in said grooves with the legs of the U extending outward from the body member.

1,785,238. APPARATUS FOR DRILLING WELLS. LEWIS E. ZERBE, Moneta, Calif., and MERTON T. ARCHER, Pittsburgh, Pa., assignors to Union Tool Company, Torrance, Calif., a Corporation of California. Filed Apr. 30, 1925. Serial No. 26,880. 9 Claims. (Cl. 255—19.)



1. An apparatus for drilling wells, comprising a prime mover, a drill bit, means for rotating the drill bit, means for controlling the feed pressure on the drill bit, a differential connecting the prime mover with the rotating means and feed pressure control means, the connection between the differential and feed pressure control means consisting of a plurality of chain drives selectively utilizable for establishing various speed ratios between the differential and feed pressure control means, said chain drive operating through the medium of a countershaft.

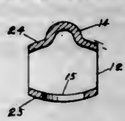
1,785,239. SUPPORT FOR VACUUM TUBES. MILTON ALDEN, Springfield, Mass., assignor, by mesne assignments, to Robert S. Allyn, New York, N. Y. Filed Aug. 12, 1926. Serial No. 128,725. 6 Claims. (Cl. 173—328.)



1. A support for a vacuum tube or the like comprising, in combination, a base, an insulating member, a plurality of springs yieldingly supporting said insulating member upon said base, each of said springs embodying therein a torsion coil and a compression coil, the latter being fast to said insulating member and adapted to engage a terminal of a vacuum tube, said spring constituting an electric circuit connection thereto, and means to fasten each of said springs to said base.

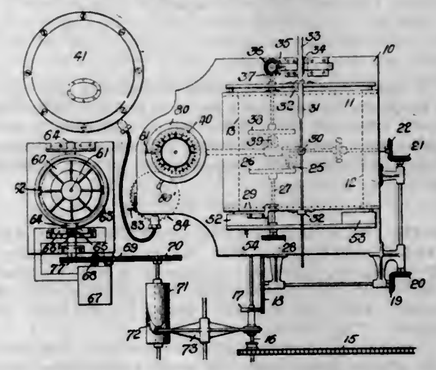
1,785,240. SEPARABLE FASTENER. PETER A. ARONSON, Rivercliffe, Devon, Conn., assignor to Hookless Fastener Company, Meadville, Pa., a Corporation of Pennsylvania. Original application filed June 14, 1923, Serial No. 645,223, and in Great Britain June 6, 1924. Divided and this application filed Jan. 23, 1928. Serial No. 248,675. 10 Claims. (Cl. 24—205.)

1. A locking member for a separable fastener having a projection and a recess on opposite sides of the member, the surfaces around the projection being transversely inclined away from the projection toward the recess side of the member and the surfaces around said recess being



transversely inclined away from the recess toward the projection side of the member to permit rocking of cooperating locking members on one another.

1,785,241. DEAD-RECKONING TRACER. MORTIMER F. BATES, Brooklyn, N. Y., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Mar. 17, 1925. Serial No. 16,146. 14 Claims. (Cl. 234—8.)

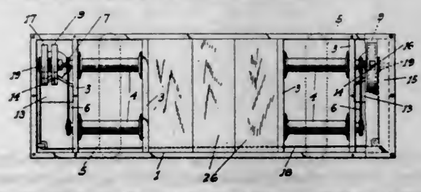


1. In combination with a vehicle, a dead reckoning tracer comprising recording mechanism including a movable chart and a marker, means whereby said marker is moved in accordance with deviations from a predetermined course in azimuth of said vehicle, means for moving said chart, and means whereby said last named means is effective only as long as said vehicle has a component of travel along said course.

1,785,242. PROCESS OF RECLAIMING RESIDUES. ARMAN E. BECKER, Newark, and REGINALD G. SLOANE, Elizabeth, N. J., assignors to Standard Oil Development Company, a Corporation of Delaware. Filed Nov. 28, 1923. Serial No. 677,513. 3 Claims. (Cl. 196—34.)

1. The process of working up residues left from distillation of petroleum oils with caustic soda, which comprises thinning the residue with naphtha, washing with water and recovering naphthenates from the wash water, treating the residue while in the presence of naphtha with 66° Bé. sulphuric acid at the rate of about 50 lbs. to the barrel, settling and removing sludge, treating with caustic soda solution, washing, and distilling off naphtha.

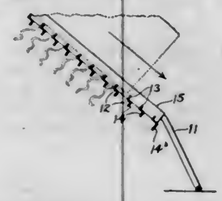
1,785,243. BRAKE-TESTING MACHINE. EDSON P. BEWLEY, Santa Cruz, Calif. Filed Jan. 9, 1928. Serial No. 245,412. 4 Claims. (Cl. 265—25.)



1. A vehicle brake testing machine including a roller to be engaged by a wheel of the vehicle, a pendulum

mounted independent of one roller, driving means for the roller mounted on the pendulum, and connections between the driving means and the roller for causing the force of the driving pressure to impart a rotation to the pendulum only when a resistance to the free rotation of the roller is had.

1,785,244. GRATER. THOMAS W. BIGONEY, Philadelphia, Pa. Filed Aug. 20, 1929. Serial No. 387,212. 2 Claims. (Cl. 146—180.)

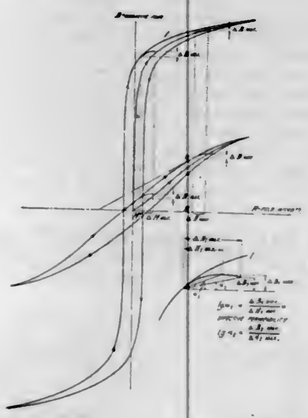


1. A grater comprising a frame supporting a body portion integrally formed with a series of parallel transverse members separated from each other by substantially rectangular open spaces, and having opposed perpendicular flanges reinforcing said members and forming cutting edges.

1,785,245. REMOVAL OF LEAD COATINGS FROM METALLIC ARTICLES. KIEL B. BOWMAN, Massillon, Ohio, assignor, by mesne assignments, to Republic Steel Corporation, Youngstown, Ohio, a Corporation of New Jersey. Filed Oct. 8, 1929. Serial No. 398,276. 10 Claims. (Cl. 75—18.)

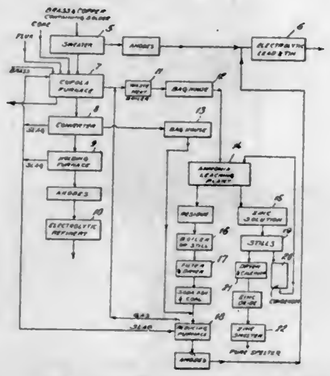
1. The method of removing the lead coating from lead coated articles, which consists in treating the articles with an agent which oxidizes the lead coating and then removing the oxidized lead coating by means of an acid.

1,785,246. MAGNETIC MATERIAL. WIEBOLD FRANS BRANDSMA, POPKO REINDER DIJKSTERHUIS, GERARDUS JOHANNES SIZOO, and GOTTFRIED BRUNO JONAS, Eindhoven, Netherlands, assignors to Radio Corporation of America, a Corporation of Delaware. Filed Aug. 1, 1928, Serial No. 296,665, and in the Netherlands July 19, 1927. 1 Claim. (Cl. 175—21.)



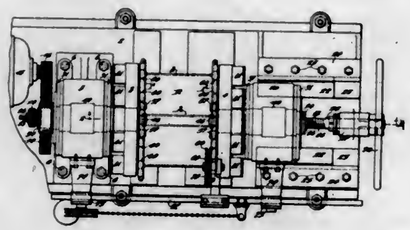
A transformer core comprising magnetic material which is substantially decarbonized and partly oxidized to such an extent that the hysteresis curve is substantially straight.

1,785,247. RECOVERY OF METALLIC ELEMENTS AND ALLOYS. HARVEY M. BURKEY, Plainfield, and DANIEL L. OGDEN, Woodbridge, N. J., assignors to American Metal Company, Ltd., New York, N. Y., a Corporation of New York. Filed Aug. 15, 1928. Serial No. 299,672. 15 Claims. (Cl. 75—17.)



1. The method of recovering copper and zinc from waste alloy material containing these elements, which comprises smelting the alloy material, separating a fume containing the zinc from the gases evolved by the smelting operation, leaching the fume with a solvent for the zinc and recovering the zinc from the solution.

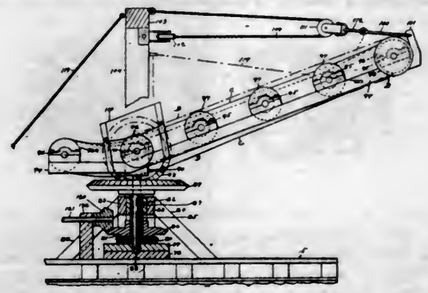
1,785,248. CHUCK FOR SPOOLING OR REELING MACHINES. HERBERT S. BUSBY, Providence, R. I., assignor to American Electrical Works, Phillipsdale, R. I., a Corporation of Rhode Island. Filed June 28, 1929. Serial No. 374,496. 12 Claims. (Cl. 242—54.)



2. In a spooling or reeling machine, a chuck comprising a rotatable driving-head, a movable head adapted for adjustment towards and away from the driving-head, self-adjusting centers slidable axially of the heads to adapt them to engage the bore of a reel or spool, and means slidable on the heads to engage the sides of the reel to clamp the latter in position in the chuck to prevent it from running out of true or vibrating.

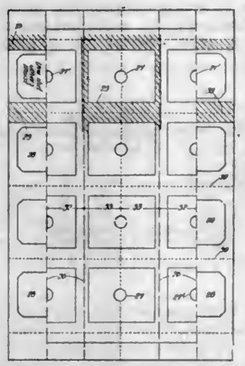
1,785,249. ROCK CONVEYER. ROY R. DAILEY, Colorado Springs, Colo. Original application filed Mar. 23, 1929, Serial No. 349,417. Divided and this application filed Jan. 27, 1930. Serial No. 423,851. 4 Claims. (Cl. 198—119.)

1. A stacker of the class described comprising a pair of main bearings mounted in vertical alignment; a vertically disposed hollow shaft journalled in said main bearings; a horizontally disposed secondary bevel gear keyed on said vertically disposed hollow shaft, between said vertically aligned bearings; a horizontally disposed drive shaft provided with bearings and carrying a bevel pinion meshed with said secondary bevel gear; a horizontally disposed main bevel gear keyed on said hollow shaft, above said main bearings; a vertically disposed solid shaft mounted



in said hollow shaft and carrying a bracket; a horizontally disposed conveyer actuating shaft journalled in said bracket, and carrying a bevel gear mounted on one end and meshed with said main bevel gear.

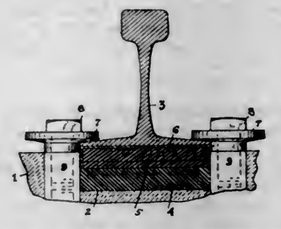
1,785,250. METHOD OF AND APPARATUS FOR MAKING TICKETS. STANLEY LEOPOLD HENRY EBERHARDT, London, England. Filed Jan. 29, 1929, Serial No. 335,972, and in Great Britain Jan. 31, 1928. 10 Claims. (Cl. 93—87.)



1. Apparatus for making tickets from a single blank each adapted to carry a removable slip, wherein the continuous section of the blank from which the removable slips are made is interposed between two other continuous sections of the blank adapted to form the outer layers of the ticket proper, comprising a blank reel, printing units for printing advertising matter on the sections of a blank, a stamping unit for severing the appropriate section of the blank along three lines which correspond with three sides of the removable slip, gluing rollers for applying glue to predetermined portions of the blank, a folding device for folding the printed section to lie between the unprinted sections, a cutting device for releasing the inset sections, and a cutting device for severing the tickets one from the other.

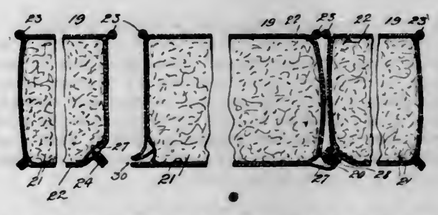
1,785,251. SUPPORT FOR RAILWAY RAILS. HARRY ETHERIDGE, Zelienople, Pa. Filed Feb. 12, 1930. Serial No. 427,829. 2 Claims. (Cl. 238—283.)

1. In a railway track construction, the combination with a rail support extending beneath the rail and longitudinally thereof and having formed in its upper surface a seat extending longitudinally of the rail support and beneath the position of the base of the rail and means carried by the support and engaging the sides of the base of the rail to prevent lateral displacement of the rail but permitting a limited vertical movement, of a resilient pad stepped in said seat and extending sufficiently above the top surface of the support to at all times hold the rail out



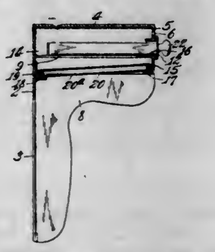
of contact with the support, and an inverted metal box having its bottom interposed between the rail base and the top of the pad and having its sides extending down into the seat and having a sliding fit with the walls of the seat, the upper portion of the pad being inclosed by the box.

1,785,252. FOLDING MATTRESS. BENJAMIN M. FRANK, New York, N. Y., assignor to Greenpoint Metallic Bed Co., Inc., Brooklyn, N. Y., a Corporation of New York. Filed Sept. 20, 1929. Serial No. 393,905. 1 Claim. (Cl. 5—357.)



A folding mattress for a davenport type of bed, including a lower mattress section and an upper mattress section secured to the lower mattress section at the front of the upper section and front of the lower section to provide a fold connection, the upper mattress section comprising cushions connected at the lower edges of their adjacent sides so as to expose when inverted a substantially continuous bed surface in the plane of the upper surface of the lower mattress section, the complete lower edge at the side of one of said cushions lying between the fabric of the side and bottom of the adjacent cushion and being secured thereto.

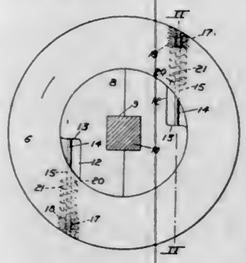
1,785,253. COVER FOR REGISTERS AND RADIATORS. WILLIAM K. GAMMETER, Cadiz, Ohio. Filed July 21, 1928. Serial No. 294,522. 2 Claims. (Cl. 237—79.)



1. In an air filtering and humidifying attachment for registers and radiators, a casing-like shield comprising side walls, front and rear walls and a top, all occupying permanently fixed relation, a drawer-like water pan occu-

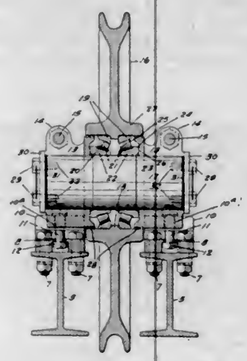
pying a position wherein it is enclosed by said shield walls, said pan being slidable through the front shield wall to and from said position, said pan being spaced from the top wall to provide an intermediate horizontal air passage and having its rear edge spaced from the rear shield wall to provide a vertical air passage opening into said horizontal passage, said front wall having therein air discharge openings located above the level of said pan, and means for filtering air passing to said vertical passage.

1,785,254. EARTH-BORING ROTARY. EDGAR E. GREVE, Bellevue, Pa., assignor, by mesne assignments, to Oil Well Supply Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Apr. 17, 1923. Serial No. 632,672. 4 Claims. (Cl. 64—100.)



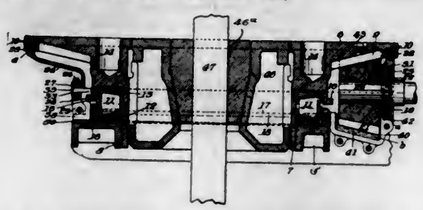
4. An apparatus of the class described comprising a driving member, a driven member, one of said members being cut away peripherally and having a portion thereof forming a radially disposed shoulder, a kick-out device tangentially disposed on the other member and normally engaging said shoulder to drive one device from the other device, said kick-out device being adapted to yield upon predetermined resistance being encountered to overcome the driving relation of the members.

1,785,255. CROWN-BLOCK-PULLEY CONSTRUCTION. EDGAR E. GREVE, Bellevue, Pa., assignor, by mesne assignments, to Oil Well Supply Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Apr. 6, 1927. Serial No. 181,593. 7 Claims. (Cl. 308—208.)



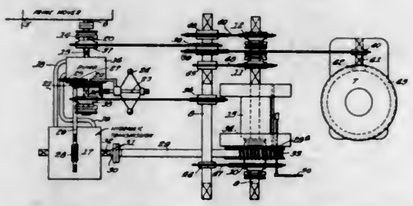
1. A crown block pulley including a relatively fixed shaft, a sheave, conical anti-friction bearings for the sheave, adjustable shaft bearings adapted to be anchored on supporting means and jointly with the sheave enclosing the anti-friction bearings and arranged for movement on the shaft for adjusting the sheave bearings, and means for moving the shaft bearings on the shaft.

1,785,256. ROTARY-DRILLING MACHINE. EDGAR E. GREVE, Bellevue, Pa., assignor, by mesne assignments, to Oil Well Supply Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 23, 1928. Serial No. 256,143. 3 Claims. (Cl. 255—23.)



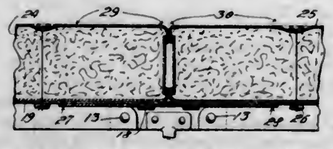
1. In a rotary drilling machine, the combination with a base, of a rotary table having a peripheral gear, an annular raceway between the table and the base, anti-friction bearings disposed in said raceway and interposed between the base and table, a drive pinion for the table, and a closure structure mounted on the base and cooperating with the table for enclosing the gear, anti-friction bearings and pinion, said closure structure including upper and lower members, said lower member mounted on and secured to the base and having hold-down means cooperating with means on the table, and lubricant-receiving means positioned outside of the base.

1,785,257. CONTROL MECHANISM FOR ROTARY DRILLING APPARATUS. EDGAR E. GREVE, Bellevue, Pa., assignor, by mesne assignments, to Oil Well Supply Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 21, 1929. Serial No. 341,665. 5 Claims. (Cl. 255—19.)



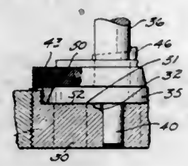
1. In a well drilling apparatus, the combination with a prime mover having a drive shaft, a rotary table, driving means between the prime mover and the table, a variable speed rotatable hoist mechanism, a drill stem suspended from the hoist mechanism and rotated by the table, and automatically operable means associated with the rotating and hoist mechanism including a hydraulic transmission mechanism having a shaft connected with the said drive shaft, means connecting the transmission mechanism and the hoist mechanism, and a governor for controlling the operation of the hydraulic transmission, said governor operatively connected with the drive shaft and actuated in accordance with the speed of rotation imparted to the drill stem.

1,785,258. FOLDING COT. HYMAN GURSKY and MORRIS VOLKES, Brooklyn, N. Y. Filed May 4, 1929. Serial No. 360,390. 4 Claims. (Cl. 5—357.)



2. A combined canvas top and mattress for cots, the mattress being in two sections stitched to the top by transverse, spaced, lines of stitching at a considerable distance back of the adjoining edges of the sections, and which lines are at the middle portion of the top, and lines of stitching connecting the mattress sections with the top and extending some distance back of the side and end edges of the top, so as to leave the corresponding edge portions of the top and of the mattress sections free from each other, the mattress being of greater area than the top, whereby each of the mattress sections is provided with free edge portions all around, which when the top and mattress are flat, may abut at the adjacent edges of the sections, and which at the side and outermost extend a considerable distance beyond the edges of the top.

1,785,259. VALVE CONSTRUCTION FOR SLUSH PUMPS. HENRY P. HICKERSON, Anaheim, Calif., assignor to Ernest Koppl, Long Beach, Calif. Filed Jan. 10, 1927. Serial No. 160,123. 20 Claims. (Cl. 251—144.)

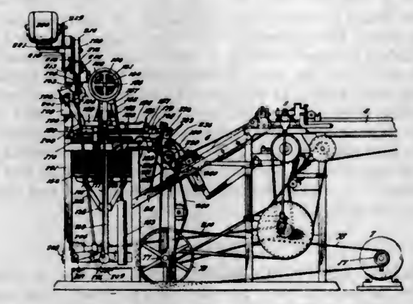


2. A valve construction for slush pumps comprising: a seat; a valve adapted to engage said seat; and a resilient sealing member carried by said valve and being operable to engage said seating member should any portion of the valve fail to engage said seats but being normally substantially disengaged from said seating member.

1,785,260. STENCIL SHEET. SHINJIRO HORII, Tokyo, Japan. Filed Nov. 17, 1928, Serial No. 320,215, and in Japan June 15, 1928. 1 Claim. (Cl. 41—38.6.)

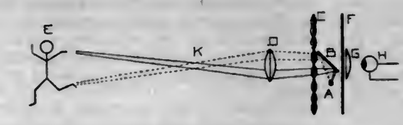
A stencil sheet adapted for stencilizing by pressure, comprising a base of fibrous material coated with a coating composition consisting of a solution of esters of polysaccharides, tempering agents and stabilizing coloring substances which absorb the ultra-violet rays of the sunlight.

1,785,261. MEANS FOR ASSEMBLING SHEETS AND APPLYING ADHESIVE THERETO. CHARLES C. HOWARD, Louisville, Ky. Original application filed Nov. 22, 1928, Serial No. 321,216. Divided and this application filed Sept. 20, 1929. Serial No. 394,006. 14 Claims. (Cl. 11—1.)



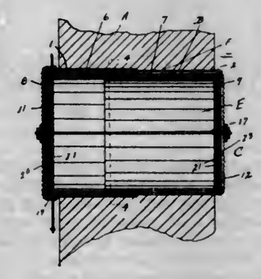
1. In a book-making machine, the combination of glue devices, and means for feeding sheets having folded ends to said devices and presenting the folded ends thereof thereto.

1,785,262. DUPLEX SCANNING DISK. CHARLES FRANCIS JENKINS, Washington, D. C., assignor to Jenkins Laboratories, Washington, D. C., a Corporation of the District of Columbia. Filed Sept. 6, 1928. Serial No. 304,353. 11 Claims. (Cl. 178—6.)



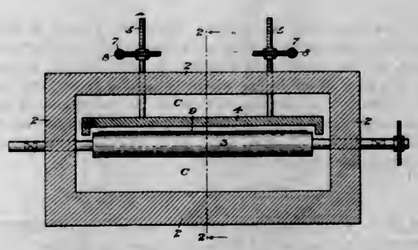
1. In spot scanning of electrically transmitted subjects, the combination of a rotatable scanning disk common to both spot illumination and spot cell-pickup; a source of light from which light is passed through said scanning disk; a disk having apertures in alignment with the scanning elements of said scanning disk and a light-sensitive cell upon which light from the source falls after passing through the said scanning disks.

1,785,263. VENTILATOR. JEDD L. JENSEN, Salt Lake City, Utah. Filed Mar. 1, 1930. Serial No. 432,287. 4 Claims. (Cl. 98—118.)



1. In a ventilator the combination of two telescoping cylindrical members having the outer end of each closed with openings therethrough; another set of similar telescoping cylindrical members carried therein having openings in the ends thereof adapted to be partially rotated into alignment with the openings in the first members as desired.

1,785,264. METHOD OF AND APPARATUS FOR ANNEALING MATERIALS. CHARLES B. KINGSLEY, Clairton, Pa., assignor to Mississippi Glass Company, a Corporation of New York. Filed Mar. 8, 1927. Serial No. 173,675. 6 Claims. (Cl. 49—47.)

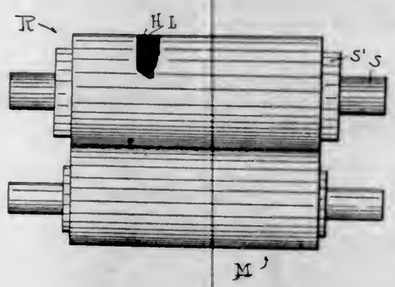


1. The method of annealing a continuously formed sheet of glass, comprising advancing the sheet of glass through an annealing chamber of fixed cross section, and controlling the rate of cooling of the sheet of glass as it

passes through said chamber by interposing between the upper surface of the sheet and the upper wall of said chamber a heat absorbing and heat retaining element without restricting the cross sectional area of the chamber.

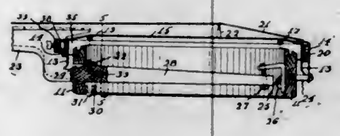
4. In an apparatus for annealing a continuously formed sheet of glass, the combination comprising an open ended treating chamber of fixed cross section, means for conveying a sheet of glass through said chamber, and a heat absorbing and heat retaining curtain disposed immediately above the sheet of glass and away from the walls of said open ended chamber.

1,785,265. CALENDER ROLL. ARCHIBALD LADE, Northampton, Mass., assignor to B. F. Perkins & Son, Inc., Holyoke, Mass., a Corporation of Massachusetts. Filed Dec. 21, 1928. Serial No. 327,651. 2 Claims. (Cl. 92—71.)



1. A pair of calender rolls for finishing paper comprising in combination, a metallic roll having a relatively rigid body and a non-yieldable surface, a roll having a relatively non-rigid heat resisting body and a yieldable surface, the latter roll including a metallic shaft and paper and asbestos laminations intermingled to form a body which are held together in pressed relation by flanges at opposite ends of said shaft.

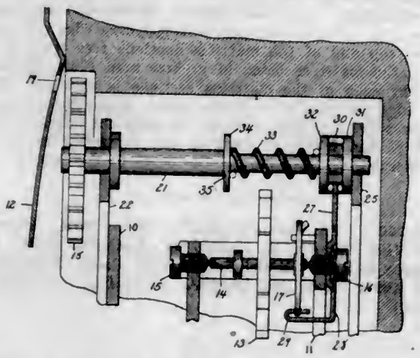
1,785,266. NECK ADJUSTER FOR BANJOS. WILLIAM L. LANGE, New York, N. Y. Filed July 11, 1929. Serial No. 377,376. 8 Claims. (Cl. 84—293.)



1. In a banjo and the like an inner rim, a neck, a dowel forming an extension of said neck adjustably pivotally connected at the lower end thereof to said rim at a point near the part of said rim, which is remote from said neck, and a means for turning said neck in the plane of said rim around said point as a pivot, thereby adjusting the angular position of said neck with relation to said rim in a plane parallel to the latter.

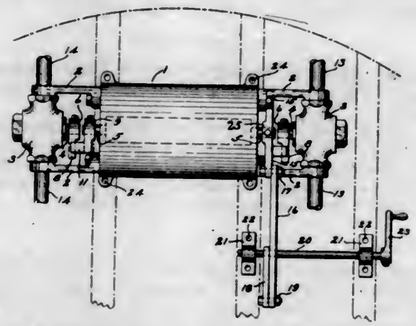
1,785,267. REGULATOR FOR CLOCK MOVEMENTS. WILLIAM J. LARGE and JOHN O. SIMPSON, Bristol, Conn., assignors to The E. Ingraham Co., Bristol, Conn., a Corporation. Filed Nov. 2, 1928. Serial No. 316,702. 2 Claims. (Cl. 58—109.)

1. In a clock, the combination with a time-movement having an escapement, of regulating-mechanism for the said escapement, a dial having a regulating-opening extending from front to rear therethrough, a toothed regulating-wheel located behind the said dial in the plane thereof in



position to have its teeth directly engaged through the said opening therein and mounted with capacity for full rotation, and movement-reducing connection between the said wheel and the said regulating-mechanism.

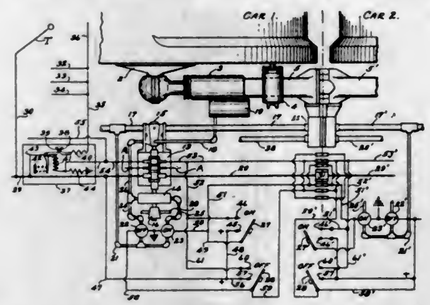
1,785,268. VALVE AND SWITCH OPERATING MEANS. ERNST A. LARSSON, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed May 16, 1927. Serial No. 191,707. 3 Claims. (Cl. 200—53.)



1. Electric and air control mechanism comprising a pair of valves spaced apart to control separate air lines, a drum type switch interposed between the valves and rotatable about a separate axle, but the axes of the switch and valves being in substantial alinement, an arm secured to each valve and projecting at right angles to the axis thereof to transmit motion to the valves, an arm secured to each end of the axle of the switch drum and projecting at right angles to the axle, spaced members projecting laterally from one pair of said arms, engaging with the other pair of said arms between said spaced members to cause said pairs of arms to rotate in unison and means on one of said arms to transmit motion alternately in two directions to the said arm to rotate the valves and drum switch in unison.

1,785,269. COUPLING MECHANISM. ERNST A. LARSSON, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Sept. 7, 1929. Serial No. 391,044. 19 Claims. (Cl. 246—62.)

1. The combination with an electrically operated car, of car, air and electric couplers, an air system and electric circuits connected to the air and electric couplers respectively, a valve to control the air current, a circuit switch to control the electric circuits to the coupler, air operated means to operate the switch and valve to open the valve when the switch is closed, a conductor switch to control the current from a conductor and electrically operated

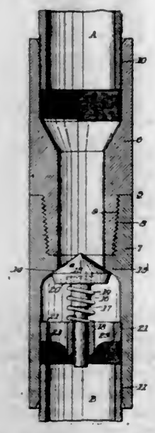


means to automatically close this switch whenever the conductor is energized and to hold the switch closed, means to open the switch when the conductor is de-energized, and manually operated means to short circuit the electrically operated means to open the last said switch at will of the operator prior to the opening of the circuit switch.

1,785,270. PROCESS OF PREPARING PETROLATUM AND THE LIKE AND PRODUCT OBTAINED THEREBY. FRANCOIS LAVIROTTE, Lyon, France, assignor to Standard Oil Development Company, a Corporation of Delaware. Filed Sept. 30, 1925, Serial No. 59,518, and in France Oct. 4, 1924. 13 Claims. (Cl. 196—40.)

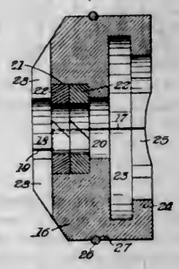
7. In a process of preparing petrolatum of substantial purity, the improvement which comprises reacting at an elevated temperature with fuming sulfuric acid upon a material containing petrolatum associated with carbonizable substances, continuing the acid treatment until the said substances are converted into non-liquid carbonaceous bodies, and separating the residual petrolatum.

1,785,271. BACK-PRESSURE JOINT. JOHN D. LEMEX, Tulsa, Okla., assignor, by mesne assignments, to Oil Well Supply Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed June 5, 1928. Serial No. 283,011. 3 Claims. (Cl. 137—69.)



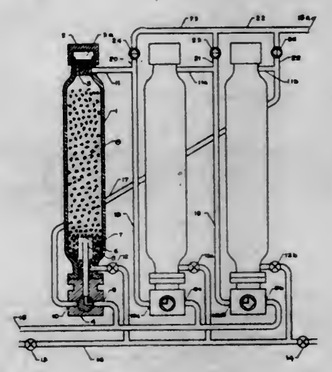
1. A drill pipe float joint comprising a hollow body having an interiorly extending portion integral therewith formed with a reduced bore portion, said portion on one side being adapted for abutment by the adjacent element of the drill pipe line and on its other side providing a valve seat, a valve guide within and supported by the hollow body below the seat, and a spring pressed valve interposed between the guide and the seat, said guide having a fluid passage area greater than the valve area to permit of an uninterrupted flow of fluid through the joint.

1,785,272. SAND CAP. JOHN D. LEMEX, Tulsa, and DEWEY R. SMITH, Ardmore, Okla., assignors, by mesne assignments, to Oil Well Supply Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed June 13, 1928. Serial No. 284,920. 1 Claim. (Cl. 286—18.)



A sand cap for the purpose specified having a bore therethrough, said cap being in separable sections, said bore being enlarged to form a groove, packing disposed in said groove for engagement with a polish rod, said cap below said groove having a depending marginal flange adapted to surround the stuffing-box below its upper end, said bore being further enlarged to provide a recess adapted to receive parts of a stuffing-box for attachment of the cap thereto, a contractile ring securing said sections together, said sections adjacent the top having oppositely extending lateral flanges, and the sections having recesses receiving said latter flanges.

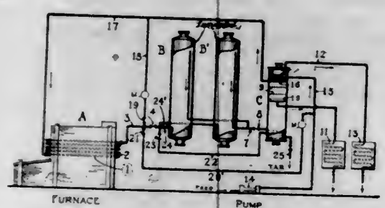
1,785,273. METHOD AND APPARATUS FOR TREATING FLUIDS WITH SOLIDS. ISAAC H. LEVIN, Pittsburgh, Pa., assignor, by mesne assignments, to Gas Industries Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 1, 1925. Serial No. 34,073. 12 Claims. (Cl. 183—39.)



1. In an apparatus for treating fluids, a casing having a fluid inlet end and a fluid outlet end, a cap associated

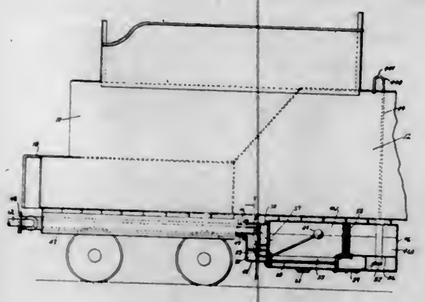
with the inlet end, and a valve controlled pipe dually functioning to discharge water into the inlet end to flush same and to accommodate drainage therethrough.

1,785,274. ART OF PYROLYSIS. NATHANIEL E. LOOMIS, ALBERT H. TOMLINSON, and FRANK A. HOWARD, Elizabeth, N. J., assignors to Standard Oil Development Company, a Corporation of Delaware. Filed May 31, 1923. Serial No. 642,400. 8 Claims. (Cl. 196—51.)



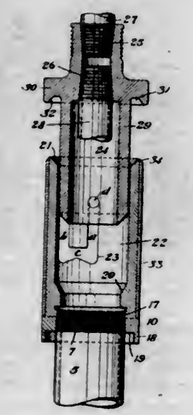
6. The improvement in the art of pyrolytic conversion under pressure of hydrocarbon oils to lower boiling products, which comprises flowing a stream of the hydrocarbons through a heating zone under conditions of temperature, pressure, and time such as to give substantial cracking and substantial evaporization, then through a zone in which the oil is held for a relatively longer time, introducing relatively cool oil into the last mentioned zone to hold a temperature therein substantially lower than the temperature in the first zone but not below an effective cracking temperature, and withdrawing substantially all the fluid products together from the last mentioned zone.

1,785,275. HEATING UNIT FOR LOCOMOTIVE TENDERS. NATHAN M. LOWER, Pittsburgh, Pa., assignor, by mesne assignments, to The Standard Stoker Company Inc., New York, N. Y., a Corporation of Delaware. Filed Jan. 7, 1924. Serial No. 684,802. 4 Claims. (Cl. 122—434.)



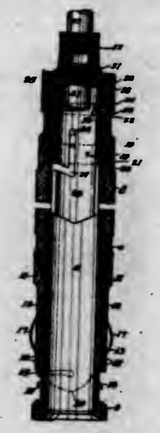
1. In a tender for locomotives, a tank, a reservoir associated with said tank from which water is supplied to the boiler of said locomotive, means for conducting the exhaust steam of said locomotive to said reservoir, means associated with said reservoir and controlled by the water level therein admitting said steam thereto, and means controlled by the pressure in said reservoir for admitting water to said reservoir from said tank.

1,785,276. OIL-WELL PACKER. PATRICK H. MACK, Bradford, Pa., assignor, by mesne assignments, to Oil Well Supply Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed July 6, 1927. Serial No. 203,804. 2 Claims. (Cl. 166—12.)



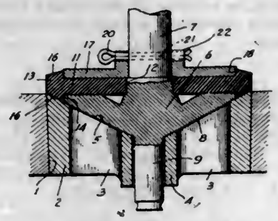
1. A device of the class described comprising a head including a body portion formed with a slot, a sleeve embracing the body portion of the head, a member associated with the head and having a pin connection with the slot of the head.

1,785,277. OIL-WELL PACKER. PATRICK H. MACK, Bradford, Pa., assignor, by mesne assignments, to Oil Well Supply Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed July 6, 1927. Serial No. 203,805. 1 Claim. (Cl. 166—12.)



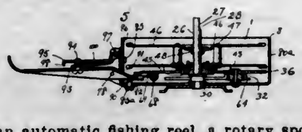
The combination with a tubular body of a packer, a relatively short head on said body having its bore of substantially the same diameter as the adjacent portion of the body, a cap surmounting the head and having sealing engagement therewith, a depending tubular portion carried by the cap and substantially snugly fittting the bore of the head and the body, said tubular member having an irregular slot opening through the lower end thereof, and a pin carried by the head and disposed in said slot.

1,785,278. VALVE. JOHN W. MACCLATCHIE, Compton, Calif. Filed July 6, 1927. Serial No. 203,780. 5 Claims. (Cl. 251—127.)



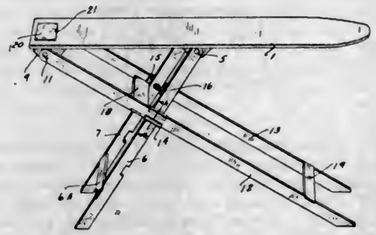
1. In a valve the combination of a valve seat comprising an annulus having inwardly extending ribs with the end of the annulus and ribs forming a tapering seating surface, and a valve including a body and packing thereon, the body forming a wear-resisting seating surface, and the packing forming seating surfaces at its opposite faces and adapted for reverse mounting relative to the body for juxtaposing either of said packing seating surfaces and the wear-resisting seating surface so as to form a continuous tapering seating surface of which the packing and wear-resisting portions are adapted for respective engagement with the annular portion and the rib portion of the tapering seating surface of the valve seat.

1,785,279. BRAKE FOR AUTOMATIC REELS. ALFRED D. MAURY, Ilion, N. Y., assignor to Martin Automatic Fishing Reel Company, Incorporated, a Corporation of New York. Filed Apr. 14, 1927. Serial No. 183,877. 5 Claims. (Cl. 242—84.5.)



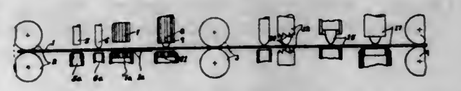
1. In an automatic fishing reel, a rotary spool, a horseshoe shaped brake member having arms with leather strips thereon adapted to make contact with said spool for stopping the rotation of said spool, and a pivotally mounted lever to release said brake member.

1,785,280. IRONING BOARD. HUBERT C. MORRIS, Albany, Oreg. Filed May 12, 1928. Serial No. 277,275. 4 Claims. (Cl. 68—10.)



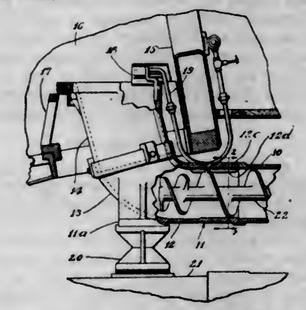
1. An ironing board including folding legs for the same, the legs being fixedly hinged upon one end to the board member, sleeves carried by one pair of such legs within which the other pair of such legs are slidable, each of said sleeves constituting a single member formed of sheet material having a base or bed, upwardly turned side walls spaced apart, inwardly turned rear walls spaced from the bed and parallel thereto, the edges of the rear walls being spaced apart to provide an opening therebetween, and means for pivotally supporting such sleeve upon its associated carrier leg.

1,785,281. MECHANISM FOR FORMING LOCK WASHERS. CARL G. OLSON, Chicago, Ill., assignor to Shakeproof Lock Washer Company, Incorporated, Chicago, Ill., a Corporation of Delaware. Filed Nov. 17, 1927. Serial No. 233,749. 2 Claims. (Cl. 10—73.)



1. Means for producing two different kinds of pronged lock washers from the same stock strip, comprising strip-feeding means, dies for progressively piercing and piloting the strip, a ribbed punch and a complemental ribbed die adapted to blank one of said washers and to push it part way only through the strip, a second ribbed punch and a ribbed die having beveled work-engaging faces on its ribs adapted to push said washer completely through the stock and to simultaneously twist its prongs, the spaces for the prongs between adjacent ribs in said last mentioned die being narrower than those in the said blanking die, a pilot, a tooth-twisting punch and die adapted to twist the prongs remaining in the stock strip after passing the above mentioned dies, a die for flattening the area of the annular ring of material surrounding the said last mentioned prongs and a blanking punch and die for severing said flattened ring from the stock strip, thereby producing a second washer.

1,785,282. CONVEYER FOR STOKERS. FRANK C. PICKARD, Erie, Pa., assignor to The Standard Stoker Company, Incorporated, a Corporation of Delaware. Filed Dec. 18, 1928. Serial No. 326,869. 6 Claims. (Cl. 198—15.)



1. A conduit elbow for a stoker having upright sides and a roof portion, the inner face of its roof portion being provided with a curved bearing surface terminating short of said upright sides.

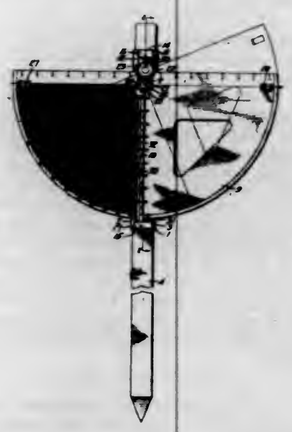
1,785,283. PROCESS FOR PRODUCING LAMELLIFORM METAL POWDERS. EMIL PODSZUS, Berlin-Friedrichshagen, Germany, assignor to Hartatoff-Metall Aktiengesellschaft (Hametag), Berlin-Copenick, Germany. Filed Sept. 6, 1923, Serial No. 661,331, and in Germany Sept. 12, 1922. 2 Claims. (Cl. 134—76.)



1. The method of producing a lustrous metal product composed of lamelliform particles for use in the manufac-

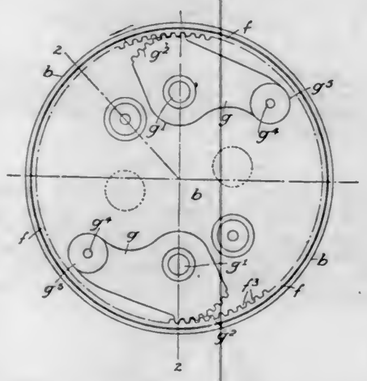
ture of bronze paints, comprising subjecting the particles of previously finely comminuted metal to continual impact between a large number of tiny steel balls by imparting to said steel balls a revolving motion.

1,785,284. SURVEYING INSTRUMENT. WILLIAM T. RHODES, Mariposa, Calif. Filed Oct. 24, 1927. Serial No. 228,289. 10 Claims. (Cl. 88—2.2.)



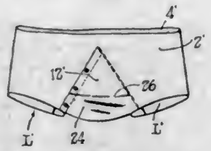
4. In a surveying instrument of the class described, a support, staff means for locating said support at a predetermined distance above a surface, a sector rotatably mounted at an axis of the support, a level carried by said support, sights on said sector, and means between the sights enabling an operator to observe the level while looking through said sights to maintain the staff means in a desired angular position relative to said surface.

1,785,285. CENTRIFUGAL GOVERNOR. JOHN HOGG ROBERTSON, London, England. Filed July 7, 1928, Serial No. 291,121, and in Great Britain Apr. 10, 1928. 7 Claims. (Cl. 264—16.)



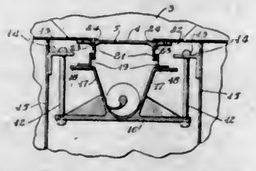
1. A governor comprising a rotary casing, an annular member mounted concentrically within said casing and capable of angular movement in relation thereto, a plurality of weighted levers pivoted upon said casing and interiorly of said annular member, each of said levers including a toothed sector, said annular member having internal teeth meshing with the toothed sectors of said levers, the centers of gravity of said levers being so disposed in relation to their respective fulcra that said sectors co-operate in producing angular movement of said annular member as a result of centrifugal force, and resilient means for opposing the angular movement of said annular member.

1,785,286. UNDERWEAR GARMENT. ERNEST W. ROBISCHON, Mount Vernon, N. Y., assignor, by direct and mesne assignments, of one-half to Frank Chodorov and one-half to Step-in-all Underwear, Corporation, a Corporation of Massachusetts. Filed May 7, 1929. Serial No. 361,114. 1 Claim. (Cl. 2—78.)



A step-in underwear garment comprising in combination, front and rear sections of fabric joined together at upper and side marginal edges providing unsecured lower edges and having neck and arm openings at the upper and side edges thereof, the said sections being provided with V-shaped cutouts having side edges which converge upwardly from points on the lower marginal edges of the sections which are spaced inwardly from the sides thereof, a gusset member having converging V-shaped ends, the side edges of the rear end and one side edge of the front end of said gusset being secured to the side edges of the cut-outs on said sections leaving a free edge of the gusset for overlying a free edge of the cut-out in the front section, the said gusset joining the sections together to provide leg openings at either side thereof and including end portions and a central portion of fabric which is relatively more elastic than the fabric of the garment having its upper rear and forward edges secured to said end portions of the gusset, the said central portion being arranged to distend between the leg openings.

1,785,287. LOCOMOTIVE TENDER. EDWARD RYAN, Knox, Ind., and ERNEST R. FUNK, Galesburg, Ill., assignors to The Standard Stoker Company, Incorporated, New York, N. Y., a Corporation of Delaware. Original application filed Nov. 24, 1928, Serial No. 321,541. Divided and this application filed Jan. 7, 1930. Serial No. 419,099. 7 Claims. (Cl. 105—234.)

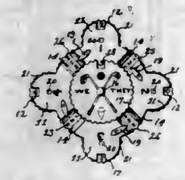


1. In a tender, the combination of a fuel bin having a floor with an opening therein, a pair of members positioned beneath said floor and extending along the opposite sides of said opening and having inclined upper surfaces providing a pair of parallel supporting guideways, and a plurality of plates having angularly formed edges slidable on said guideways to control the supply of fuel through said opening.

1,785,288. GOLF SCORING DEVICE. JAMES E. SWARTHOUT, Elmira, N. Y. Filed Apr. 16, 1928. Serial No. 270,339. 1 Claim. (Cl. 235—114.)

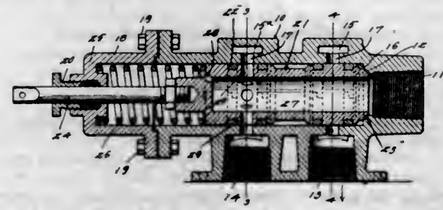
An article of manufacture, a golf scoring device comprising a substantially square cover plate having at the ends of each of its normally arranged diameters and diagonals a sight opening, two rotatable registering disks

with medal play indices and arranged on the inner side of and rotatably connected with said cover plate, said disks superimposed and overlapping each other at their inner sides and their indices adapted to register with the sight openings at the ends of one of the diameters of said plate, a rotatable registering disk with stroke play indices and arranged on the inner side of said plate at each end of each of said diagonals with their indices adapted to register with the sight openings at the ends of said diagonals, a second substantially square cover



plate, two rotatable registering disks with medal play indices similar to aforesaid first mentioned disks and arranged on the other diameter at the inner side of and rotatably connected with said second plate, said last mentioned disks superimposed and overlapping each other at their inner sides, said cover plates surrounding said disks and secured together so that their diameters and diagonals coincide and the indices of the two rotatable disks on one of said cover plates register with the sight openings at the ends of the diameter of the other cover plate.

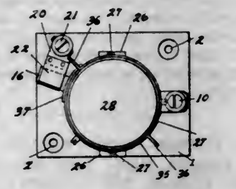
1,785,289. BALANCED VALVE. JOHN WILSON TUCKER, Beaumont, Tex. Filed Apr. 24, 1928. Serial No. 272,485. 1 Claim. (Cl. 251—76.)



In a valve, a barrel provided at one end with an axial port and provided between its ends with longitudinally spaced intake and exhaust ports, the barrel being provided with annular passages communicating with the intake and exhaust ports and with annular series of radial ports communicating therewith and with said axial port, a bonnet secured to the other end of the barrel, an annular valve seat within the barrel about the axial port, a piston slidable within the barrel for adjustment into closed or opened position and provided with a longitudinal bore opening out through its inner and outer ends and in constant communication with the bonnet and axial port, the piston extending across one of the annular series of radial ports when in closed position and having its inner end arranged between the series of these ports when in opened position, the piston being provided with radial ports communicating with the bore and communicating with one of the series of radial ports when the piston is in closed position, and an annular seat on the inner end of the piston contacting with said first seat when the piston is in closed position.

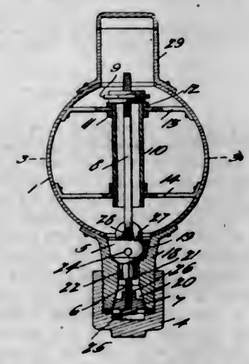
1,785,290. SAFETY ELECTRICAL DEVICE. GEORGE E. WADSWORTH, Erlanger, Ky., assignor, by mesne assignments to The George B. Wadsworth Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 4, 1929. Serial No. 368,244. 8 Claims. (Cl. 200—50.)

1. In an electrical device, a series of concentric tubes, one of said tubes comprising a housing, another a cover movable longitudinally with respect to said housing, and a third an operating tube movable in a rotary manner with respect to said housing, and means interrelating the movements of the said tubes whereby when the second



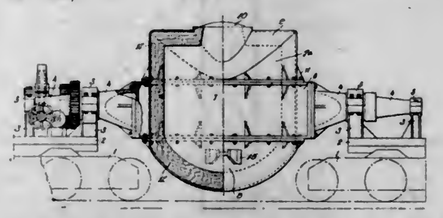
of said tubes is in one longitudinal position, the third may not be rotated, and when the third has been rotated to a given position, the second may not be moved longitudinally.

1,785,291. HERMETICALLY-CLOSING-UP DEVICE FOR CARS. ANDREW YAKUNIN, Calgary, Alberta, Canada. Filed June 8, 1929, Serial No. 369,355, and in Canada May 2, 1929. 1 Claim. (Cl. 137—21.)



A tank car or the like formed with an outlet having inwardly converging upper and lower valve seats, a valve cooperating with the upper seat, a stem depending therefrom, a valve adapted to be threaded on said stem and having wedging cooperation with the lower seat, a valve stem for the upper valve, a cylindrical guard for the stem arranged within the tank car, and a nut threaded on the upper stem and supported on the guard for adjusting the position of the upper valve.

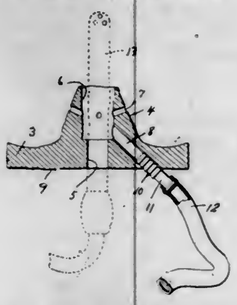
1,785,292. HOT-METAL CAR. CARL P. ASTROM, East Orange, N. J., assignor to M. H. Treadwell Company, New York, N. Y., a Corporation of New York. Filed Apr. 23, 1929. Serial No. 357,589. 1 Claim. (Cl. 22—81.)



In a vertical type hot metal car, a multisection body comprising a dished bottom, a central cylindrical section joining said dished bottom at one end, a top cylindrical section joining said central cylindrical section at its other end, and a spout on the top section, said top section hav-

ing its axis in a plane substantially at right angles to the plane of the axis of the central cylindrical section, the sides of said spout lying within a projection of the walls of the central cylindrical section of the body and the uppermost portion of said spout lying closely adjacent to a plane perpendicular to the axis of the central cylindrical body section and passing through the intersection of the axis of the central cylindrical body section with the cylindrical portion in which the top cylindrical section of the body lies.

1,785,293. SYRINGE ATTACHMENT. JOSEPH W. BRUNETTE, Fordson, Mich. Filed Mar. 2, 1929. Serial No. 343,975. 1 Claim. (Cl. 128—244.)



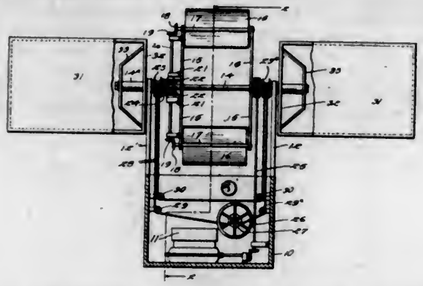
A shield for a syringe comprising a substantially solid body of resilient material having a flat base of substantial thickness concaved on its upper side, and a tapering protuberance extending centrally from the concaved side of the base, said body having an opening extending centrally through the base and protuberance for the reception of a syringe nozzle and having the opening restricted at the lower portion of the body to dispose the material of the latter closely about the nozzle for substantially the full thickness of the base and being enlarged at the upper portion of the body to provide a relatively large waste collecting chamber around the nozzle, said body being further provided with end flow openings communicating with the chamber through the side walls of the protuberance and a drain opening communicating with the chamber from the bottom side of the base.

1,785,294. TOBACCO CAN. ARTHUR E. CALVIRD, Farmington, Mo. Filed Jan. 13, 1930. Serial No. 420,427. 3 Claims. (Cl. 206—38.)



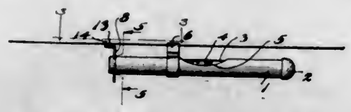
1. A tobacco container of the class described open at each end, covers for each end of the container and a match holder positioned in one end of the container and movable longitudinally thereof.

1,785,295. AEROPLANE. JOHN A. CASHEL, Worthington, Minn. Filed Aug. 6, 1929. Serial No. 383,866. 6 Claims. (Cl. 244—16.)



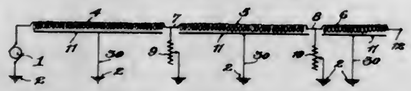
1. In an aeroplane, a driven shaft, a plurality of pairs of spaced arms secured thereto, a blade rotatable between the outer ends of each pair of arms, a drum rotatably mounted upon the shaft and a connection between each blade and said drum whereby each blade is rotated once for each two rotations of the shaft, each blade at a corresponding point with relation to the shaft being radial to the shaft and a pair of wings mounted on said driven shaft and connected to said drum and adapted to be adjustably rotated therewith.

1,785,296. LINE LEVEL. ANDERS E. CHRISTENSEN, Mayfield Heights, Ohio. Filed July 21, 1927. Serial No. 207,460. 3 Claims. (Cl. 33—207.)



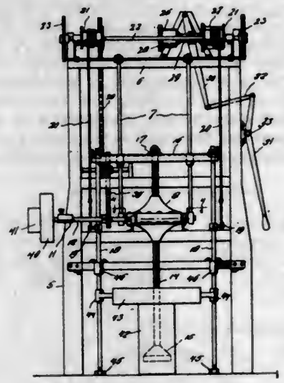
1. A line level of the class described, comprising, in combination, an elongated casing having slots near one end thereof, said end being crimped, a suspension member secured to the casing, a member slidable in said slots and having a screw threaded aperture therein, a washer within said casing and interposed between the last named member and the crimped end of the casing, said washer having a slot therein, and a screw passing through the slot in the washer and engaging the screw threaded aperture in said member, whereby the member may be adjusted in respect to the casing.

1,785,297. ELECTRIC SIGNALING. LOUIS COHEN, Washington, D. C. Filed Nov. 17, 1927. Serial No. 233,919. 12 Claims. (Cl. 250—20.)



1. A system for the selective reception of electric signals of a particular frequency which consists in interposing between the source where the signals are received and the detecting means, a sectional wave conductor comprising several sections each of said sections except the last adjusted to a half wave length corresponding to the frequency of the signal, and the last section of said sectional wave conductor adjusted to a quarter wave length corresponding to said signal frequency; also providing resistance leaks connected at the juncture points of adjacent sections of said sectional wave conductor and associating with said sectional wave conductor means for detecting said electric signals.

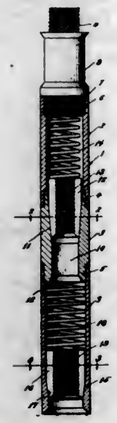
1,785,298. MACHINE FOR MAKING CONCRETE PIPES. STEPHEN H. COOGAN, Elsinore, Calif., assignor to Coogan Concrete Machinery Company Ltd., Elsinore, Calif. Filed May 8, 1928. Serial No. 276,072. 2 Claims. (Cl. 25—30.)



1. A machine for making concrete pipes comprising a vertically movable frame, a vertically disposed packer carrying shaft swivelly connected at its upper end to said movable frame and supported thereby for vertical movement with said frame, a gear splined on said packer shaft, means for holding said gear in a fixed given horizontal plane, a worm gear meshing with said gear, a horizontally disposed power shaft for driving said worm gear, power means for driving said power shaft and for operating said packer shaft vertically, and hand operatable means for actuating said power means, said hand operatable means adapted when moved in one direction to actuate the packer shaft upwardly and adapted when moved in the other direction to brake the gravity descent of the packer shaft and all parts movable therewith

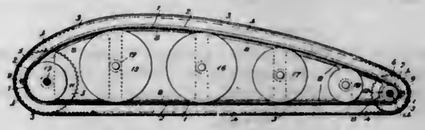
---

1,785,299. WELL-FISHING TOOL. LOUIS E. DAVIS, Seminole, Okla. Filed Sept. 28, 1929. Serial No. 395,926. 1 Claim. (Cl. 294—102.)



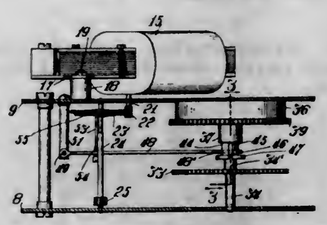
A well fishing tool comprising similar upper, lower and intermediate tubular sections of like external diameter and having openings therethrough of different diameters, the intermediate and lower sections having the bottom portion of the openings of uniform diameter and the part immediately thereabove tapered, slips in the respective sections having their lower ends tapered and their upper ends of uniform diameter, the slips in the intermediate section being of less external diameter than the slips in the lower section, and springs coacting with the slips to exert a downward pressure thereon to hold their tapered ends in the tapered openings of the respective sections.

1,785,300. ROLLING APRON FOR AIRPLANE WINGS. FILIBERTO DE LA TOUR CASTELCICALA, Rome, Italy. Filed Aug. 2, 1929, Serial No. 383,084, and in Italy Aug. 3, 1928. 5 Claims. (Cl. 244—14.)



1. A device for producing an unbalanced pressure on the wings of an aircraft comprising a plurality of rotatable supporting elements secured to said wings and having perimeters of varying sizes, a plurality of endless members trained about said supporting elements so as to assume the contour of said wings, means rigidly connecting the sides of said endless members and means housed by said first named means cooperating with other means fixed to certain of said supporting elements for driving said endless members.

1,785,301. ELECTRICALLY-WOUND CLOCK. CHARLES E. DE LONG, Springfield, Ill., assignor to Sangamo Electric Company, Springfield, Ill., a Corporation of Illinois. Filed Oct. 4, 1926. Serial No. 139,293. 3 Claims. (Cl. 185—40.)



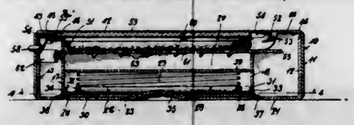
1. In an electrically wound clock, the combination of a clock spring, an electric motor, a gear train operatively connecting said electric motor with said spring, a rotating brake surface associated with said gear train adjacent to the motor end thereof, a pair of threaded members operatively connected to the opposite ends of said spring, brake mechanism responsive to relative threading motion between said members for applying frictional braking pressure to said brake surface, and means for relatively adjusting said brake mechanism and said brake surface.

1,785,302. ORE CLASSIFIER. THOMAS A. DICKSON, Denver, Colo., assignor to Colorado Iron Works Company, Denver Colo., a Corporation of Maine. Filed Jan. 10, 1928. Serial No. 245,709. 10 Claims. (Cl. 209—464.)



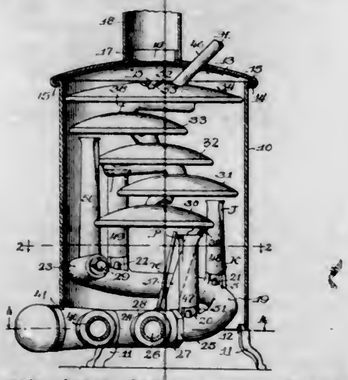
1. In apparatus of the class described, a trough having feed and delivery means, a tubular shaft therein having one end submerged, means for supporting and driving the unsubmerged end, and a bearing block closing the submerged end of the shaft and having a cylindric bearing part fitting within said end.

1,785,303. VANITY CASE. GEORGE WALTER DUNNICAN, Bloomfield, N. J., assignor to Dorothy Gray, Inc., a Corporation of New Jersey. Filed July 16, 1929. Serial No. 378,793. 6 Claims. (Cl. 132—83.)



6. A vanity case comprising a casing formed with external walls forming the edges thereof, internal walls parallel with and spaced from said external walls and defining a powder chamber, said internal walls of less height than said external walls, a slidable perforated diaphragm supported on the inner edges of said internal walls and separating said powder chamber from a powder puff chamber, means overlying said diaphragm to guide its movement and forming a portion of the puff chamber enclosure, a cover for said puff chamber hinged upon the casing, a projection upon said cover extending beyond the hinge acting upon an edge of said diaphragm in one of the spaces between said walls to cause movement of said diaphragm when the cover is opened, a cover for said powder chamber, a plate for pressing powder toward said diaphragm and a spring abutting said last named cover to move said plate.

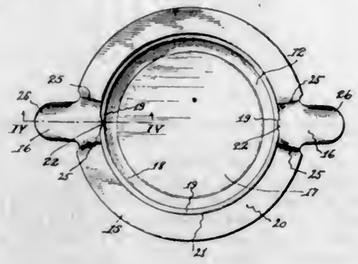
1,785,304. WATER HEATER. LEO GANZ, Chicago, Ill. Filed Feb. 10, 1926. Serial No. 87,315. 8 Claims. (Cl. 122—25.)



1. In a water heater, having a series of vertically spaced plates of hollow construction, and water conductors inter-connecting the plates; the combination of a fuel conductor entirely below the plate assembly, and a series of direct burner columns upon said fuel conductor upwardly extended from the fuel conductor to the vicinity of the respective plates for the discharge of flame in the direction of the bottoms of the plates and thereagainst.

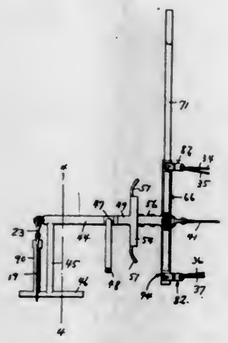
7. In a water heater, a series of vertically-spaced plates of substantially circular contour, said plates also being hollow to accommodate a sheet-like body of water, a series of conduits for successively connecting said plates and entering the same tangentially at the periphery, and leaving said plates at substantially the center, the supply forming a water body in each plate which is composed of inherent currents describing a twirling spiral commencing at the supply and ending at the discharge.

1,785,305. ASH TRAY. ERNEST MYRON GRILLEY, Waterbury, Conn., assignor, by mesne assignments, to George E. Alling & Sons, Winsted, Conn. Filed Jan. 21, 1928, Serial No. 248,411. Renewed Nov. 4, 1930. 2 Claims. (Cl. 131—51.)



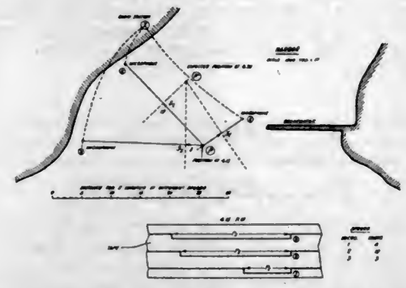
1. A tray comprising a thin single sheet of material having a depressed circular bowl portion bordered at its top edge by an annular outwardly projecting rim, and having narrow integral troughs formed solely from the material of said rim and extending radially across said rim and arranged along a diameter of and on opposite sides of said bowl and provided with a lip adjacent to end of said troughs and projecting slightly over the top edge of said bowl portion, whereby said depressed circular bowl portion may be slightly distorted into an oblate form for the insertion of a lining in said bowl portion.

1,785,306. AEROPLANE-STEERING APPARATUS. ROMEO GUILLEMETTE, Taunton, Mass. Filed Dec. 30, 1929. Serial No. 417,505. 3 Claims. (Cl. 244—29.)



1. In a control mechanism for aeroplanes, comprising a longitudinal shaft adapted to be journaled in a fuselage of an aeroplane, a cross bar on the forward end of the shaft having control wires secured to its opposite free ends for moving the ailerons of an aeroplane, a frame rockable on the shaft at its rear end, control wires for the elevators secured to opposite vertical points of the frame, control wires for the rudders secured to the frame at opposite horizontal points on the frame, the opposed vertical and horizontal points having a pivotal connection between the frame and the control wires, a steering post projecting from the frame and secured thereto, and stop members secured to the shaft and fuselage for limiting the movement of the frame and the cross bar respectively.

1,785,307. SYSTEM AND METHOD OF COMMUNICATION. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Sept. 2, 1926. Serial No. 133,094. 22 Claims. (Cl. 177—352.)



22. The method for determining the speed of a ship relative to a fixed point which includes the step of transmitting an audio frequency signal by a slow transmitting medium between the two, receiving and retransmitting the signal in the reverse direction between the two through an instantaneous transmitting medium, receiving the retransmitted signal at the transmitting station and comparing the frequencies of the transmitted signal and the signal finally received thereat.

1,785,308. VALVE PUSH ROD. BERT R. HEIMENDINGER, Britt, Iowa. Filed May 20, 1929. Serial No. 364,556. 4 Claims. (Cl. 123—90.)

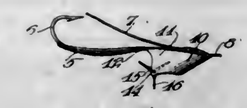


1. In combination with an internal combustion engine, a sectional push rod, the upper of said sections being formed with a socket and the upper end of the lower section movably confined in said socket, a shoulder formed on said other section intermediate the ends thereof and in spaced relation to the edges of said socket, a coil spring circumposed about said other section having its opposite ends in abutment with said shoulder and the edges of the socket for urging said sections apart, said upper section having a passage extending axially therethrough from the upper end and in communication with said socket for conducting oil into the socket to form a film to provide a cushion for the abutting parts.

1,785,309. METHOD AND PRODUCT FOR PREVENTING EFFLORESCENCE IN CERAMICS. ARTHUR HOUGH, Summit, N. J., and JOHN GEORGE HARRISON, New York, N. Y.; said Hough assignor to said Harrison. Filed June 15, 1927. Serial No. 199,124. 5 Claims. (Cl. 106—11.)

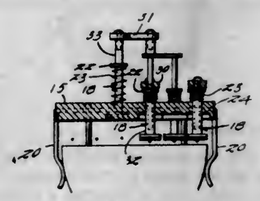
1. The process of preventing efflorescence or scumming in ceramics which comprises adding barium silicate to the material from which the ceramics are made.

1,785,310. ARTIFICIAL FISH LURE. LOUIS JOHNSON, Chicago, Ill. Filed Apr. 3, 1930. Serial No. 441,345. 11 Claims. (Cl. 43—45.)



1. An artificial fish lure comprising a plate pointed at its forward end and curved laterally to form a conoidal body from the point wholly beneath the plane of the top surface of the plate.

1,785,311. ATTACHMENT FOR FRETTED MUSICAL INSTRUMENTS. SAMUEL W. JOHNSON, Port Allegany, Pa., assignor of one-half to Ralph L. Springstead, Port Allegany, Pa. Filed Sept. 29, 1928. Serial No. 309,232. 4 Claims. (Cl. 84—317.)

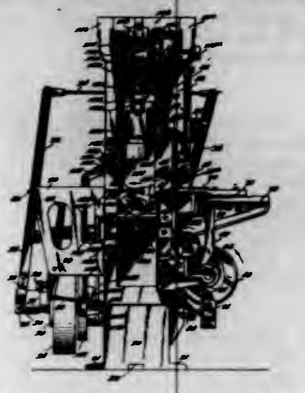


1. An attachment for use in playing a group of chords upon a fretted musical instrument comprising an elongated base, holding means mounted at opposite ends of said base for removably holding said base on the neck of the instrument, adjustable means in said base for spacedly positioning the base above the finger board, a plurality of string engaging members in the base having enlarged lower portions adapted to selectively engage the strings of the instrument, and padding carried by the lower portions of the string engaging members.

1,785,312. SOAP PRESS. RUEL ANDERSON JONES, Covington, Ky., assignor to R. A. Jones & Company, Inc., Covington, Ky., a Corporation of Kentucky. Filed Oct. 8, 1928. Serial No. 310,965. 40 Claims. (Cl. 25—7.)

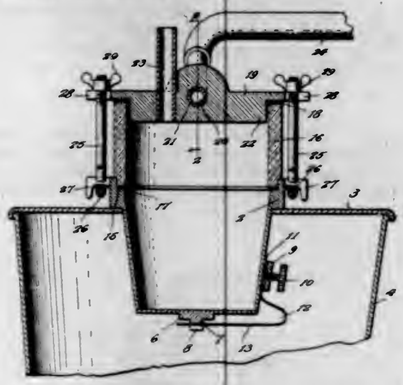
1. In a machine for successively pressing bars of plastic material, a magazine supporting a stack of said bars, carrier means for transporting the lowermst bar of the stack from the magazine, a pair of dies disposed transverse to the path of movement of said carrier means, one die re-

ciprocable toward and from the other die, said latter die mounted for oscillation transverse to the pressing move-



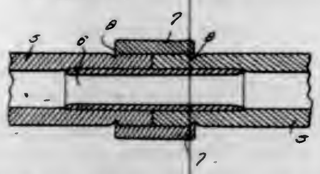
ment of the reciprocable die for ejecting the pressed article, and a conveyor moving laterally away from the forward side of the dies.

1,785,313. VALVE FOR MILKING MACHINES. MONROE KEENER, Lititz, Pa., assignor to Howard J. Hull, Lancaster, Pa. Filed Aug. 23, 1928. Serial No. 301,619. 2 Claims. (Cl. 31—86.)



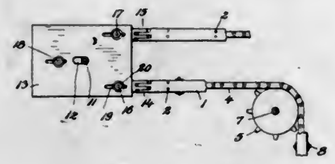
1. A valve cup for milking machines comprising a cup, a ring resting on the upper edge of the cup, a valve block resting on the upper edge of the ring, a milk inlet passage extending across said block and downwardly therethrough from the upper edge portion thereof to the opposite lower edge portion thereof and terminating in proximity to the inner concave surface of the ring, and an air passage through the block eccentric to the milk inlet passage and remote from the outlet of the same.

1,785,314. HOSE MENDER. SIDNEY R. KELLY, Gem, Idaho. Filed Mar. 11, 1927. Serial No. 174,530. 1 Claim. (Cl. 285—77.)



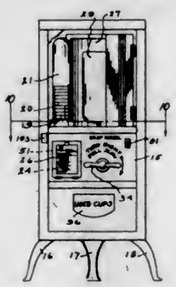
In a mending device for the adjacent ends of a pair of hose sections, a tube of greater diameter than the inner diameter of the hose section, said tube being of uniform diameter throughout its entire length and having a smooth outer surface, the end portions of the tube being forcibly fitted in the respective ends of the abutting hose sections, a pair of identical semi-circular clamping sections arranged around the hose sections at their abutting ends, said tube being of such length as to have its ends extending beyond the respective ends of the clamping sections, means for securing the sections together in tight engagement around the hose sections, an inwardly extending tapered lip formed at the ends of each section for biting engagement with the outer surface of the respective hose sections and for compressing the ends of the hose sections between the internal tube and the sections of the clamp.

1,785,315. MEANS FOR ADJUSTING THE RAILS OF CONVEYERS RELATIVE TO THE CHAINS THEREOF. EDWIN E. KENNEDY, North Olmsted, Ohio. Filed June 3, 1929. Serial No. 367,871. 4 Claims. (Cl. 104—107.)



1. In a means for adjusting the rails of conveyers relative to the chains thereof, the combination of a chain, a rail, the chain being supported from the rail, the rail being separated transversely into two portions, a wheel for driving said chain, the wheel being supported in an adjustable position relative to said chain, and one of said portions of said rail being adjustable relative to said wheel.

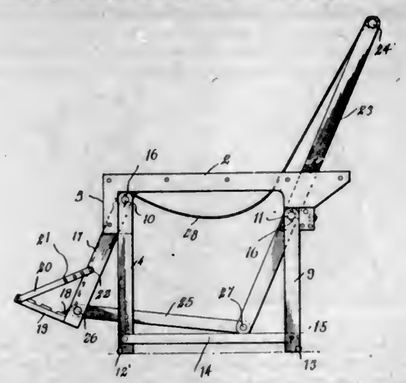
1,785,316. LIQUID-DISPENSING DEVICE. FREDERICK C. KIMMEL, Columbus, Ind. Filed Apr. 10, 1929. Serial No. 354,092. 16 Claims. (Cl. 225—21.)



14. In a liquid dispensing device having a cup dispensing means, a liquid container, an operating shaft movable both rotatively and axially, means actuated by rotary movement of said shaft for operating said cup dispensing means, and means actuated by axial movement of the shaft to cause withdrawal of liquid from said container, both of said means being operated in sequence by rotative and axial movement of said shaft.

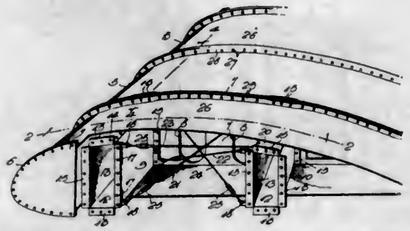
1,785,317. CHAIR. RUSSELL L. KLOTZ, Little Falls, N. J. Filed Sept. 26, 1928. Serial No. 308,351. 2 Claims. (Cl. 155—106.)

1. A chair comprising side arms each having pendent portions at its front and rear ends, a bar rigidly connecting the rear ends of the side arms, legs pivoted to the depending portions of the side arms, stops on said depending portions holding the front legs against forward



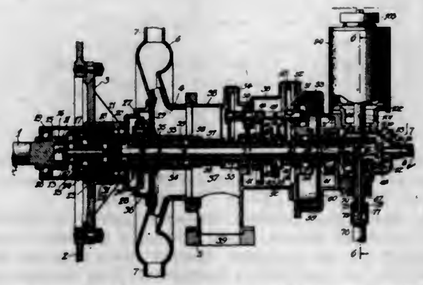
movement and the rear legs against rearward movement, connections between the lower ends of the legs, and a seat structure pivotally mounted between the side arms.

1,785,318. WING STRUCTURE FOR AIRPLANES. WILLIAM C. LAMBERT, Ironton, Ohio, assignor, by direct and mesne assignments, of one-fourth to Dean McG. Gilfillan, Ironton, Ohio, and one-fourth to Elmer Stewart, Washington, D. C. Filed Jan. 26, 1929. Serial No. 335,221. 8 Claims. (Cl. 244—31.)



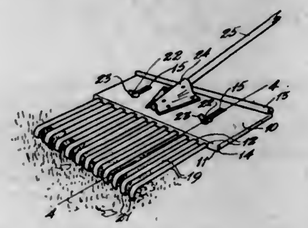
1. In an airplane wing, a pair of longitudinal ribs, a pair of transverse tubular spar sections having end flanges in abutting engagement with the ribs, bracing means between opposite end flanges of the spar sections, a cover extending between the ribs and cover strips over the edges of the ribs.

1,785,319. ENGINE STARTER. RAYMOND P. LANSING, Montclair, N. J., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York. Filed Jan. 10, 1927. Serial No. 160,236. 81 Claims. (Cl. 123—179.)



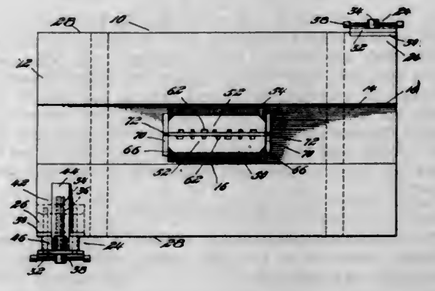
1. In combination with an internal combustion engine and its carburetor and with a supercharger therefor adapted to be operated by the engine, an engine starter drive adapted to be engaged with and to crank the engine for starting the same and to be operatively connected with the supercharger to operate it independently of the engine.

1,785,320. LAWN RAKE. CHARLES LORBER, Louisville, Ky., assignor to Eastern Tool and Manufacturing Company, Bloomfield, N. J., a Corporation of New Jersey. Filed June 19, 1929. Serial No. 372,149. 4 Claims. (Cl. 55—10.)



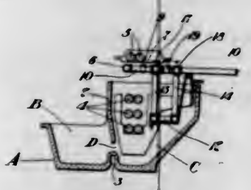
1. In a rake, a body consisting of a metal sheet having a flange at its forward edge provided with spaced openings, rake teeth slidably mounted for adjustment in said openings, means slidably supported by said body beneath the same to secure said teeth in fixed position relative to each other to cause the teeth to move in unison in said openings, and means to secure said teeth in adjusted position.

1,785,321. MANUAL-TRAINING BENCH. CHARLES H. MASON, East Providence, R. I. Filed June 8, 1928. Serial No. 283,892. 6 Claims. (Cl. 144—286.)



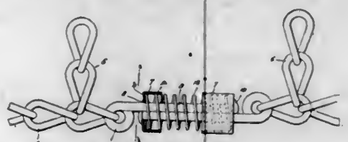
1. A double manual training bench comprising a flat top having a central longitudinally extending flat edged groove therein, four longitudinally and transversely braced legs supporting said top, vises for each student mounted on obliquely opposite ends of each side thereof so as to have the supper surface of the movable gripping jaws thereof substantially level with the bench top, T-braces for board ends having T-stems adapted to overlie the bench top surface for abuttal of a board end thereon and T-heads of substantial depth secured to the upper under surface of the T-head adapted to be detachably clamped between the vise jaw surfaces, a common removable tool holding stand having a top having separate sets of vertical tool snpporting holes therein on opposite sides thereof, one set for each student and a base of substantially the width of the flat edged groove adapted to rest in the central groove below the bench top, and means to detachably secure said tool stand base against longitudinal movement within said central groove comprising arms spaced from each other substantially the length of the tool stand base pivotably mounted centrally of said central groove pivotable to longitudinal alignment within said groove for cleaning purposes on removal of said stand for said groove.

1,785,322. TIN POT. JESSE T. MCQUISTON, Sharon, Pa., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Jan. 12, 1927. Serial No. 160,651. 3 Claims. (Cl. 91—59.4.)



1. The combination with a tin pot having a pair of plate cooling lances, of a cooling coil mounted in the exit side of the pot to cool the body of oil normally maintained on the tin, a source of air supply for said air lances and said coil, and means for controlling the flow of air to said coil and said lances so that the air may be caused to flow through said coil before entering said lances or to said lances direct as desired.

1,785,323. NONSKID-CHAIN TIGHTENER. JAMES F. PERSINGER, Lander, Wyo. Filed Apr. 19, 1929. Serial No. 356,490. 1 Claim. (Cl. 267—72.)



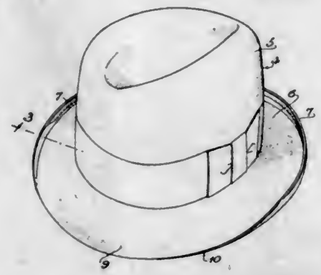
A spring device of the class described comprising a pair of cup shaped members each including cylindrical bodies with one disc end apiece, the disc ends being provided with off center adjoining openings, bolts extending through the openings, heads and eyes on the ends of the bolts, the bolts and the eyes being oppositely disposed, a spring disposed about the bolts and impinging against the disc plates, said heads being formed with notches to receive the bolts, so that said bolts may be disposed close together.

1,785,324. RAILROAD TIE. EDWARD C. RASSEL, Mio, Mich. Filed Apr. 5, 1930. Serial No. 441,943. 3 Claims. (Cl. 238—59.)



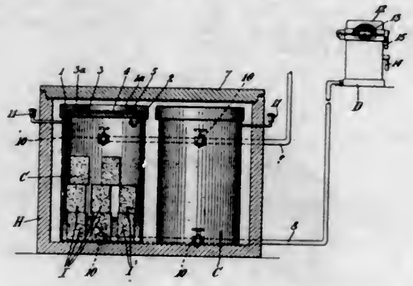
3. A railroad tie of the class described comprising an elongated channel-shaped body open at the bottom comprising an elongated substantially rectangular top plate, and substantially rectangular side plates depending rightangularly from and extending completely the length of the longitudinal edges of the top plate, said top plate being provided with a pair of inset portions forming shoulders for seating a rail, a bendable rectangular tongue rising from the top plate adjacent one shoulder, and another bendable rectangular tongue rising adjacent the opposite shoulder of each inset portion, said tongues being diagonally opposed near opposite longitudinal edges of the top plate and adapted to be bent upon the feet of a pair of rails seated in said inset portions, and webs formed transversely of the tie and between and attached to said top plate and said sides and supporting said inset portions.

1,785,325. HAT BRIM. HARRY ROLNICK, Dallas, Tex., assignor of fifty per cent to Byer-Rolnick Company, Dallas, Tex., a Corporation. Filed June 10, 1930. Serial No. 460,264. 2 Claims. (Cl. 2—178.)



1. A hat comprising a brim, having a raw edge in front and a welted portion in the rear so that the front portion may be turned down and the rear portion turned up, the welted portion serving to reinforce and retain the shape of the hat.

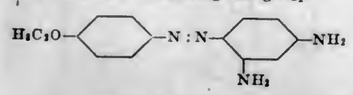
1,785,326. METHOD OF AND APPARATUS FOR UTILIZING PHASE-CHANGEABLE MATERIAL. HARRY B. RUDD, Douglaston, N. Y. Filed June 24, 1929. Serial No. 373,134. 7 Claims. (Cl. 220—24.)



1. The method of sealing the filling opening of a container, which comprises introducing phase-changeable solid material into said container through said opening, and thereafter retaining a closure plate in sealed relation with respect to said opening solely by the pressure exerted thereon by gas arising from change in phase of said solid material.

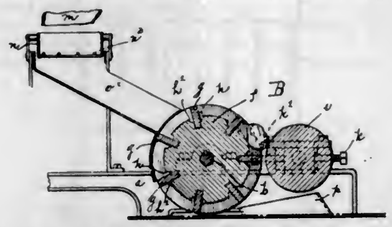
1,785,327. ALKYL-PHENYL ETHER. IWAN OSTROMISLENSKY, New York, N. Y., assignor to Ostro Research Laboratories, Inc., New York, N. Y., a Corporation of New Jersey. Filed Apr. 11, 1930. Serial No. 443,615. 7 Claims. (Cl. 260—97.)

2. A new compound comprising the group

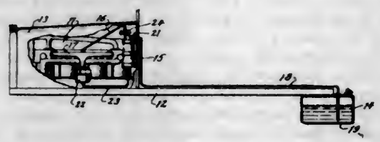


1,785,328. NUTCRACKER. CLINTON B. REPP, Plainfield, N. J. Filed Mar. 12, 1926, Serial No. 94,151. Renewed Apr. 25, 1930. 9 Claims. (Cl. 146—11.)

1. A nut cracker embodying therein a rotatable cylinder having pocket forming means projecting substantially radially from the perimeter thereof and extending continuously for substantially the full length of the cylinder, an idly mounted, heavy cylinder adjacent but spaced away from said first named cylinder, and means rotating said first named cylinder, the pockets formed by said radially extending means being relatively greater peripherally of the cylinder than the dimensions of a nut to be cracked and of a length to simultaneously accommodate a plurality of nuts, whereby all of the nuts in each pocket will be readjusted in a pocket so that with continued rotation of said rotatable cylinder each nut will be brought to a position to be engaged at three points thereof by said cylinders, and said radially extending means, and the crushing power will be applied at a substantially single point during the rotation of said cylinder, and portions of the shell and the cracked nut during, and immediately following, the application of the crushing strains will pass from the operative relation to both of said cylinders.

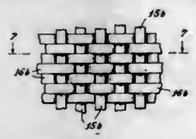


1,785,329. FUEL-SIGNAL DEVICE. RAYMOND D. SCHNOOR, Park Ridge, Ill. Filed Mar. 25, 1929. Serial No. 349,700. 19 Claims. (Cl. 116—109.)



1. A device of the character described, comprising a housing, said housing having a suction connection, a vacuum connection, and a connection to the outside air, an alarm device in said last named connection, and a fluid controlled piston associated with and adapted to actuate said alarm device when a predetermined volume of fluid passes between said suction connection and said vacuum connection.

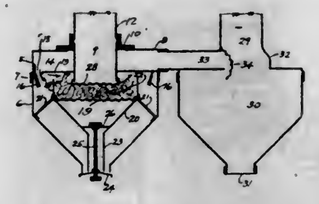
1,785,330. MOVING-PICTURE SCREEN FOR USE IN CONNECTION WITH SOUND PICTURES. WILLIAM J. SCHOONMAKER, New York, N. Y. Filed Mar. 7, 1929. Serial No. 345,032. 4 Claims. (Cl. 88—24.)



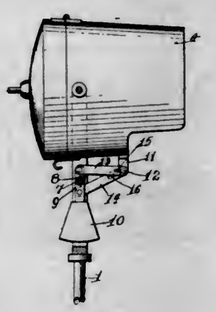
1. A woven sound picture screen comprising a plurality of adjacent substantially rectangular warp strips interwoven with a plurality of spaced weft strips so as to produce air passages on either side of the weft strips and between the warp strips, said warp strips having adjacent edges tightly engaged with each other for providing substantial light proof seams.

1,785,331. ELASTIC-FLUID DUST SEPARATING AND COLLECTING SYSTEM. GEORGE M. SPENCER, St. Louis, Mo. Filed Aug. 14, 1928. Serial No. 299,471. 9 Claims. (Cl. 183—85.)

1. An air cleaner comprising a casing having a body portion and a cover portion, said cover portion having an outlet therein, a diaphragm having a part of its edge spaced from the wall of said casing to define a narrow peripheral passageway, and an interior casing surrounding the lower end of said outlet and having its upper edge spaced from said diaphragm and inwardly from the periphery thereof.

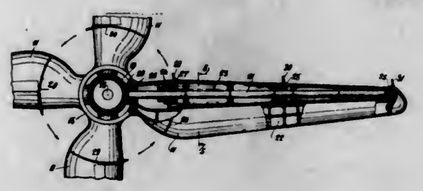


1,785,332. HEADLIGHT. GUSTAV A. THOM, West Allis, Wis. Filed Sept. 16, 1929. Serial No. 392,844. 4 Claims. (Cl. 240—62.)



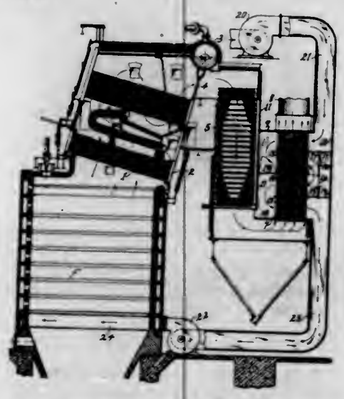
1. In a vehicle headlight, means for pivotally supporting the headlight, a counter-balance weight pivotally mounted below the headlight and links forming a direct connection between the weight and the headlight for normally maintaining the headlight in the same general plane as the vehicle.

1,785,333. HELICOPTER. SERGE TREY, Stamford, Conn. Filed Nov. 18, 1926. Serial No. 149,034. 11 Claims. (Cl. 244—19.)



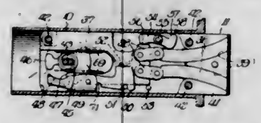
1. In an aerofoil, the combination with a rotor forming the leading edge thereof, of a fairing and one or more fins surrounding said rotor and said fairing.

1,785,334. AIR HEATER. JOHN E. BLACK, Rumson, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Mar. 4, 1926. Serial No. 92,191. 10 Claims. (Cl. 257—224.)



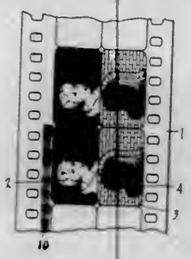
1. A fluid heater having hollow heating elements, means for passing one fluid through the elements and another fluid in contact with the other surface of the elements a multiplicity of times, and means for varying the number of passes for the latter fluid.

1,785,335. LOCK. LOUIS L. BRESLER, Chicago, Ill., assignor to H. T. Pollan, Chicago, Ill. Filed Feb. 23, 1929. Serial No. 341,911. 10 Claims. (Cl. 70—91.)



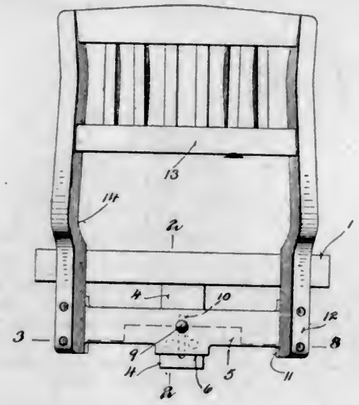
1. In a door lock, a spring-projected bolt, inside and outside means operable independently of each other to retract the bolt, a supplemental locking member carried by the bolt, and inside and outside means operable independently of each other to project said member with respect to the bolt.

1,785,336. MOVING-PICTURE FILM AND METHOD OF MAKING. JACOB BURKHARDT, Detroit, Mich., assignor to Third Dimension Pictures, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 22, 1929. Serial No. 357,146. 6 Claims. (Cl. 88—16.)



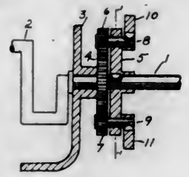
4. A motion picture film of standard width comprising a series of background pictures and a series of action pictures arranged in pairs and disposed transversely of the film, each background picture of each pair having a mask of the foreground picture of the pair.

1,785,337. CHAIR. LEON H. CLARK and WILLIAM S. SENGPIEL, Philadelphia, Pa., assignors to The Sikes Company, Philadelphia, Pa. Filed June 21, 1928. Serial 287,173. 1 Claim. (Cl. 155—157.)



In a device of the class described, a seat member, an arm extending downwardly from the back portion of the seat member and having a longitudinal slot, a back including spaced side arms normally projecting below the seat, a transverse bar having its ends rigidly connected to the lower ends of the side arms, a transverse enlargement at the intermediate portion of the bar extending beyond one of the longitudinal edges of the bar and formed with a plurality of depressions arranged in spaced relation longitudinally of the enlargement, a bolt carried by the transverse bar at its intermediate portion and movable in the slot in the arm, spring pressed plungers carried by the arm and adapted to engage the depression for retaining the back in various adjusted positions with respect to the seat and spaced ribs extending transversely of the bar upon opposite sides of the arm to form a guide for said arm.

1,785,338. TORQUE-IMPULSE MULTIPLIER. GEORGE B. COLEMAN, Detroit, Mich. Filed Apr. 1, 1930. Serial No. 440,856. 4 Claims. (Cl. 74—34.)

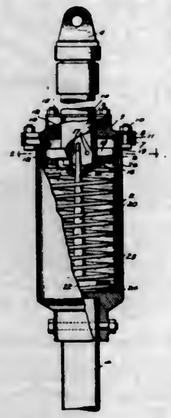


1. A torque impulse multiplier comprising a planet carrier, planetary gears rotatably carried by said planet carrier, a mass member operatively secured to said planetary gears, and a non-rotatable gear meshing with said planetary gears.

1,785,339. SHOCK ABSORBER FOR LANDING GEARS OF AIRPLANES. ELLIOT DALAND, Torresdale, Pa., assignor to Keystone Aircraft Corporation, Bristol, Pa., a Corporation of Delaware. Filed Aug. 20, 1928. Serial No. 300,875. 4 Claims. (Cl. 267—8.)

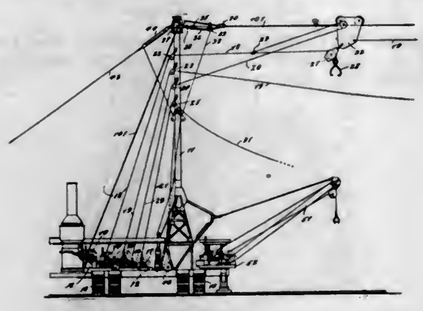
1. A device of the character described including a cylinder and a piston, the former including an element for connection to the wheel and axle mounting of an airplane,

the piston including a piston rod for connection to an airplane structure, the said piston being restricted to a central opening in its head and having a plurality of small ports above the piston head, and having a chamber communicating with said small ports and open to the cylinder above the piston to establish and maintain communication between the contents of the cylinder on both sides of the piston at all times, a tapered metering pin within the said cylinder, having its upper end extending through the said central opening in the piston head to provide a space around the tapered stud to control displacement of a



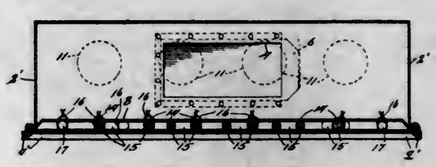
fluid through piston head upon movement of the piston in the cylinder in either direction, and a spring within the cylinder and under the piston to normally hold the piston in operative position, the whole arranged whereby upon inward movement of the piston in the cylinder and along the tapered metering pin, the displacement of fluid below the piston head is progressively restricted by the progressively diminishing area of the space in the piston-head around the tapered metering pin and upon outward movement of the piston in the cylinder, a rapid displacement of the fluid from above the piston is restricted by the said small ports above the piston.

1,785,340. PORTABLE CABLEWAY. JOSEPH H. DICKINSON, Winter Park, Fla., and MERIAN H. DICKINSON, Seattle, Wash., assignors to Lidgerwood Manufacturing Company, Elizabeth, N. J., a Corporation of New York. Filed Oct. 3, 1929. Serial No. 397,004. 5 Claims. (Cl. 104—117.)



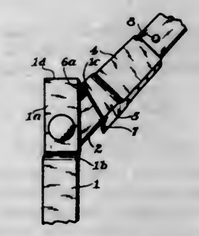
1. In combination, an engine comprising a drum, a spar, a main cable wound upon said drum, a clamp adapted to grip said cable, and means for connecting said clamp to said spar, said drum then serving merely to store cable.

1,785,341. LUMINOUS SIGN. ROBERT W. FISHER, Chicago, Ill., assignor to Peter Riess, Chicago, Ill. Filed Aug. 27, 1928. Serial No. 302,243. 9 Claims. (Cl. 40—133.)



1. In a luminous sign, a panel piece of relatively opaque material having character formations through which light may pass, and similarly shaped rods of material through which light will pass forming characters fitted over and covering said character formations, said rods being so arranged as to permit substantially no light to be emitted through said character formations except that which passes through said rods.

1,785,342. FOLDING JOINT FOR BRACES AND THE LIKE. HENRY J. GILBERT, Saginaw, Mich., assignor to Saginaw Manufacturing Co., Saginaw, Mich., a Corporation of Michigan. Filed Sept. 20, 1928. Serial No. 307,208. 2 Claims. (Cl. 287—98.)



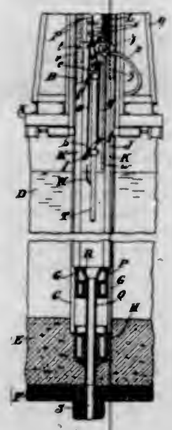
2. In a folding brace including two pivotally joined bars one having an end portion of uniform cross sectional shape throughout its length in overlapping relation with the other bar, a slidable catch on the other bar having two side walls of different lengths, the shorter adapted to slide first upon the side edge and then upon the end edge of the overlapping end portion of said first mentioned bar during the sidewise movement of the said end portion, the longer wall of said catch constituting a sidewise alinement stop for said bars.

1,785,343. LATCH FOR FOLDING BRACES. HENRY J. GILBERT, Saginaw, Mich., assignor to Saginaw Manufacturing Co., Saginaw, Mich., a Corporation of Michigan. Filed Sept. 20, 1928. Serial No. 307,210. 3 Claims. (Cl. 387—99.)



1. In a brace comprising two bars pivotally joined, one having an extension member in overlapping relation to the other bar, and stop means for limiting the movement sidewise of said member, a keeper formed in the end of said member, a pivotally mounted gravitational latch on the second bar whose path of angular movement intercepts the path of angular movement of the keeper.

1,785,344. CHARGING DEVICE. CHARLES C. HANSEN, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Feb. 24, 1930. Serial No. 430,860. 9 Claims. (Cl. 102—5.)



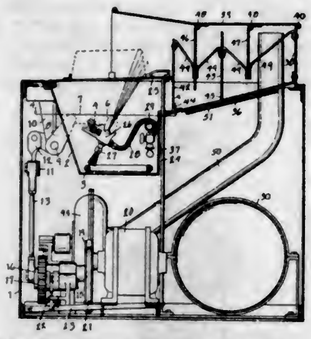
1. In a charging device for drill holes, the combination of a support and parallel members thereon to form a guide frame, means forming a container for explosive material, and means secured to the container and cooperating with the guide frame to guide the container to the drill hole.

1,785,345. CASING FOR FLEXIBLE SHAFTS. JOHN L. HASEMANN, Caldwell, N. J., assignor to American Flexible Shaft Manufacturing Corporation, Newark, N. J. Filed May 19, 1928. Serial No. 278,980. 2 Claims. (Cl. 64—30.)



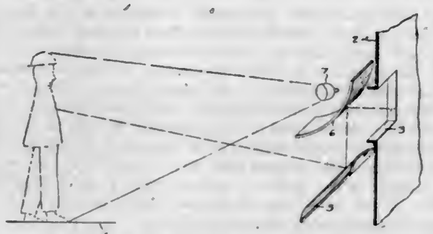
1. A casing for flexible shafts comprising a spiral bearing strip, a liquid-proof sleeve surrounding said spiral strip, a woven cover on the sleeve and a closely wound protecting strip on the outside of the cover, all said elements being of limited flexibility.

1,785,346. SEPARATOR. CHARLES T. HATCH, Albion, Mich., assignor to Union Steel Products Company, Albion, Mich. Original application filed May 1, 1926, Serial No. 106,025. Divided and this application filed Jan. 6, 1928. Serial No. 244,872. 6 Claims. (Cl. 183—110.)



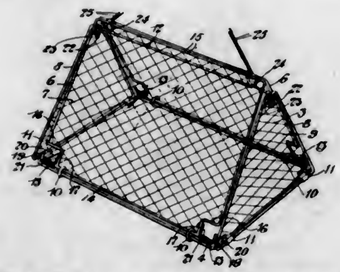
6. In a structure of the class described, a separator chamber provided with a top hinged at one end to swing in a vertical plane, baffles mounted in spaced relation within said separator chamber, and coacting baffles pivotally mounted on said top to coact with the first mentioned baffles.

1,785,347. MEANS FOR PRODUCING THEATRICAL EFFECTS. WILLIAM HERRSCHAFT, New York, N. Y. Filed Sept. 24, 1926. Serial No. 137,455. 4 Claims. (Cl. 88—24.)



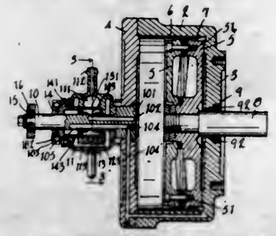
1. The combination with a concealed stage and means forming a proscenium opening, of means for forming a reduced reflected image of actors visible to the audience through said proscenium opening, said means comprising two cylindrical mirrors disposed with their curvatures at right angles, so that one reduces the image in width, while the other reduces it in height, substantially as set forth.

1,785,348. CRAB TRAP. JOSEPH HOLOUBEK, New York, N. Y. Filed Nov. 21, 1929. Serial No. 408,735. 7 Claims. (Cl. 43—102.)



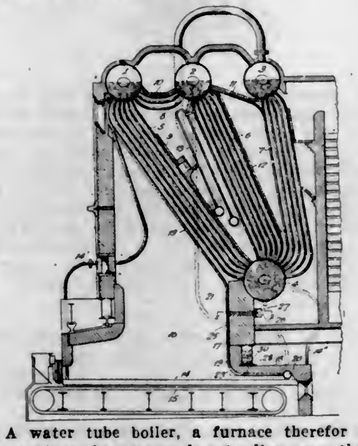
1. A trap of the type described comprising a bottom member; a plurality of leaves to form the sides of the trap; hinge means between said leaves and the bottom member adapting the leaves to fold upwardly and downwardly to close and open the trap; spring mountings in the form of pintles carried by the leaves at the opposite ends thereof, extending axially outwardly beyond the hinge means and having their outer ends free; and coiled torsion springs encircling said pintles outwardly of the hinge means and engaging the leaves to swing them downwardly, the spring mountings adapting the springs to be inserted or removed endwise.

1,785,349. PNEUMATIC ENGINE CYLINDER AND CONTROL FOR LATHE CHUCKS AND THE LIKE. GEORGE F. HOPKINS, Jackson, Mich.; William K. Sagendorph executor of said George F. Hopkins. Filed Feb. 19, 1927. Serial No. 169,501. 4 Claims. (Cl. 121—38.)



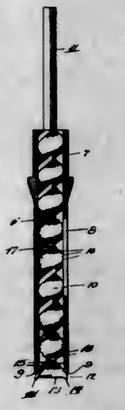
1. An engine cylinder with means to secure the same to the hollow spindle of a lathe, a piston with rod extended and adapted to actuate the lathe chuck, an axially disposed journal rod on the opposite cylinder head with longitudinal bores and lateral ports at different distances thereon, the longitudinal bores being extended into and connecting the opposite ends of the engine cylinder, a slide valve supported on the said journal rod having a central supply chamber and exhaust chambers at each side, a packing within the valve comprising oppositely disposed cup members with opposed tube parts in spaced relation to each other, each having an outwardly projecting flange, a clamping thimble between the said cup members forming a chamber around the tubular parts and perforated laterally midway of its length, and a clamping head for retaining the said cup members and clamping thimble in place to reciprocate and revolubly engage the said rod.

1,785,350. SLAG SCREEN AND WALL-COOLING MEANS. HOWARD J. KERR, Westfield, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New York. Filed Jan. 4, 1926. Serial No. 79,126. 3 Claims. (Cl. 122—235.)



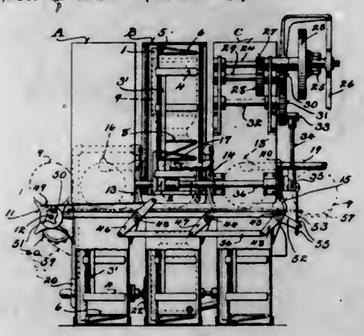
1. A water tube boiler, a furnace therefor having a chain grate stoker, an arch extending over the rear of the stoker, and a vertical wall extending upwardly from the inner end of said arch, some of the tubes of said boiler extending along the inside of said vertical wall and rearwardly beneath said arch.

1,785,351. MORTISING TOOL. WILLIAM M. KNOUREK, River Forest, Ill. Filed May 19, 1930. Serial No. 453,728. 2 Claims. (Cl. 145—122.)



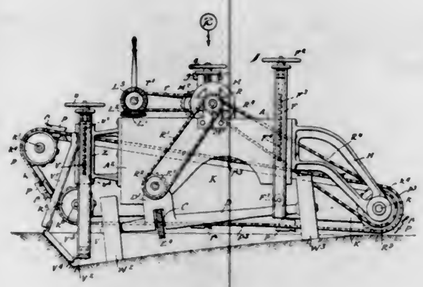
1. A mortising tool comprising a hollow chisel, and a bit rotatably mounted therein, the cylindrical face of said bit being formed with clip reducing elements adjacent the cutting end of the bit.

1,785,352. CAN-WASHING MACHINE. HERMANN KRAUSE, Menomonee Falls, Wis., assignor to Stout Manufacturing Company, Menomonee Falls, Wis., a Corporation of Wisconsin. Filed Mar. 8, 1928. Serial No. 260,160. 1 Claim. (Cl. 141—7.)



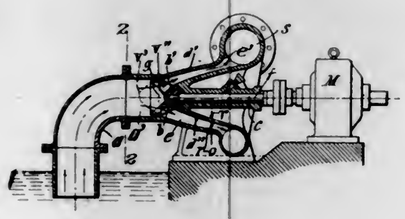
A can washing machine comprising a plurality of compartments adjacent to each other, a driven shaft extending substantially horizontally through said compartments, means for imparting rotation to said shaft at predetermined intervals, a rotary frame mounted on the shaft in each of said compartments, means for depositing cans on said frame in the end compartments at the feed end of the machine, means for moving cans from the frame in one compartment to the frame in the next succeeding compartment during the periods of rest of said frames, substantially horizontal fingers carried by each frame and positioned in pairs at each side and at each end of the cans carried by each frame for supporting the cans in said frame, and means for discharging the cans from the frame in the end compartment at the discharge end of the machine.

1,785,353. EXCAVATING MACHINE. ROBERTO KURTZ, Buenos Aires, Argentina. Filed May 19, 1924. Serial No. 714,197. 14 Claims. (Cl. 37—109.)



1. An excavating machine comprising a main body, wheels for supporting the same, an adjustable excavating unit carried by the body, and a rear axle, on which a pair of such wheels is mounted, equipped with driving mechanism therefor, enclosed within a casing joined to the main body by means of a hollow pivot.

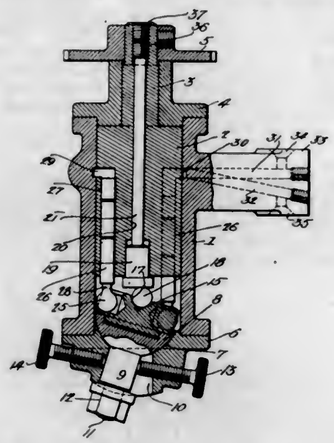
1,785,354. HYDRAULIC MACHINE. FRANZ LAWACZECK, Munich, Germany, assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed May 19, 1926, Serial No. 110,266, and in Germany Jan. 19, 1926. 6 Claims. (Cl. 103—89.)



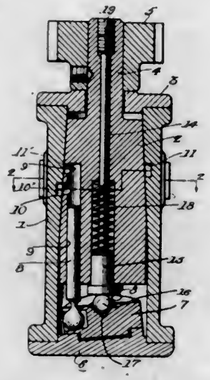
1. A hydraulic machine comprising a rotor, a casing, and a suction pipe, said casing having on that side of the rotor opposite the suction pipe an annular liquid passage, the water-contacting surfaces of the walls of said liquid passage being formed to coincide with surfaces of paraboloids.

1,785,355. SPINNING PUMP. CHARLES W. LAWSER, Bala, Pa., assignor to Wicaco Machine Corporation, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 15, 1926. Serial No. 154,977. 11 Claims. (Cl. 103—162.)

2. In a spinning pump, the combination with a cylindrical casing, of a rotor in said casing having a longitudinal bore, a plunger adapted to operate in said bore, and an actuating member adapted to rotate within the casing about an axis at an angle to the axis of said rotor, said member having a cylindrical recess extending radially inwardly from its edge and having a radial slot opening into said recess from the face of the member adjacent the said rotor, and said plunger having at its outer end a spherical part adapted to fit slidably within said recess and having adjacent thereto a restricted part adapted to pass loosely through the said slot in the actuating member whereby to permit relative movement between the plunger and the actuating member in a plane transverse to the longitudinal axis of said recess.



1,785,356. SPINNING PUMP. CHARLES W. LAWSER, Bala, Pa., assignor to Wicaco Machine Corporation, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 3, 1927. Serial No. 230,792. 7 Claims. (Cl. 103—162.)

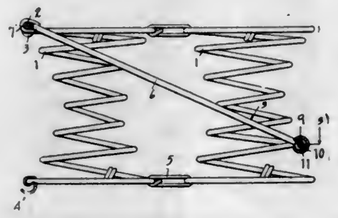


1. In a spinning pump, the combination with a casing having intake and discharge ports and a tapered chamber with which said ports communicate, of a correspondingly tapered rotor mounted in and seated upon the tapered wall of said chamber whereby the contacting tapered surfaces determine the position of the rotor axially in the casing, said rotor having cylindrical openings adapted to be brought into alternate and successive communication with the said ports as the rotor is rotated, plungers in said cylindrical openings, and means in the casing for reciprocating the plungers as the rotor is rotated.

1,785,357. WATERPROOF FIBROUS PRODUCT. HAROLD L. LEVIN, Worcester, Mass., assignor to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 7, 1927. Serial No. 231,790. 11 Claims. (Cl. 92—21.)

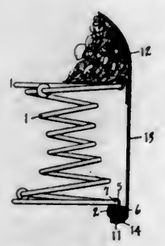
1. A felted fibrous sheet, containing in addition to the fibres thereof, filler and thermoplastic material fused onto the fibres thereof, the fibre content of said sheet being so low as to be incapable, in the absence of said thermoplastic material, of fabrication into a felted form-sustaining sheet.

1,785,358. SPRING STRUCTURE. FALCONER O'BRIEN, Detroit, Mich., assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich. Filed Sept. 19, 1929. Serial No. 393,638. 4 Claims. (Cl. 5—262.)



1. The combination in a spring structure of a plurality of coiled body springs, a top border frame, a member of channel cross section clamped upon intermediate coils of a plurality of body springs, a coiled coupling member clamped within the channel of said member, and a brace secured at one end to said border frame and having a laterally disposed pintle-like coupling engaging portion disposed within the coils of said coupling member.

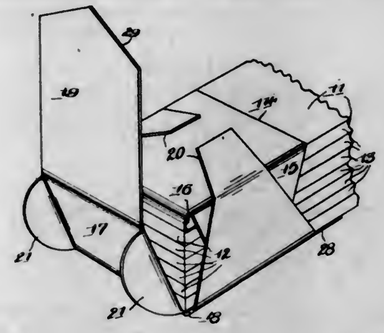
1,785,359. SPRING STRUCTURE. JOHN M. OLDHAM, Detroit, Mich., assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich. Filed Feb. 13, 1930. Serial No. 428,041. 7 Claims. (Cl. 155—180.)



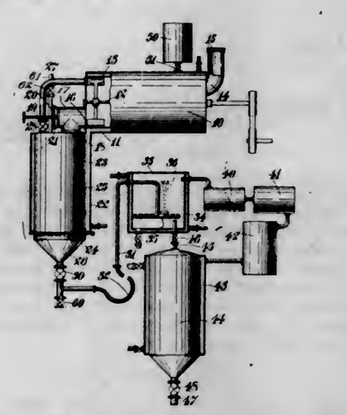
7. A channeled spring structure frame element having spaced overlapping flanges providing body spring securing means, and a tacking strip arranged within the frame channel, one wall of the frame having openings therein through which tacks may be driven into the tacking strip for securing the upholstery covering thereon.

1,785,360. LUMBER PACKAGE. HENRY H. PAYZANT, Everett, Wash., assignor to Weyerhaeuser Timber Company, Tacoma, Wash., a Corporation of Washington. Filed May 16, 1927. Serial No. 191,602. 17 Claims. (Cl. 206—60.)

1. In fastening means for a bundle containing a plurality of boards disposed face to face, one upon another, the combination with a retaining band encircling said boards near an end thereof, a hinge member extending across the ends of said boards, flaps on said member positioned upon opposite outer faces of said boards, at least one of said flaps overlapping said band and means securing the otherwise free ends of said flaps upon the outer surfaces of said boards.



1,785,361. APPARATUS FOR RECOVERY OF FATS, OILS, OR OLEAGINOUS SUBSTANCES FROM MATERIALS YIELDING THEM. WILLIAM THOMAS POWLING, London, England, assignor to John William Pittock, Philadelphia, Pa. Filed Jan. 13, 1927, Serial No. 160,834, and in Great Britain Jan. 29, 1926. 15 Claims. (Cl. 87—13.)

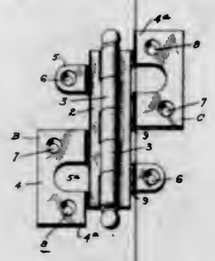


6. Apparatus for dry-render recovery of fat from fat-yielding materials, comprising, in combination, a closed rendering vessel, a closed draining vessel to receive cracklings discharged from the rendering vessel, a closed fat-collector, means placing these three elements in air-sealed series connection with one another, a vapour-exit in the fat-collector, and means to "collect" the vapour at said vapour-exit.

1,785,362. HINGE STRUCTURE. EUGENE A. REGAN, Oakland, Calif. Filed Jan. 3, 1928. Serial No. 244,155. 3 Claims. (Cl. 16—128.)

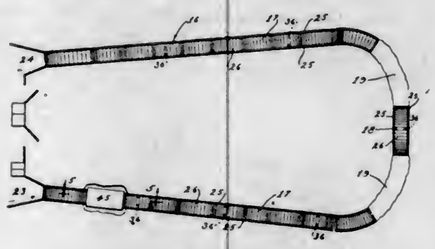
1. In a hinge of the character described, a pair of leaves each having a bearing plate, a plurality of spaced pintle bearings formed on one edge of each bearing plate, a pintle extending through the said bearings, a plurality of attaching plates connected to each bearing plate, one of said attaching plates on each leaf having a cut-out

portion and diagonally spaced from the corresponding plate of the other leaf, and the other attaching plate of each leaf being of reduced size to fit within the cut-out portion of the wider plate in the opposite leaf, the attach-



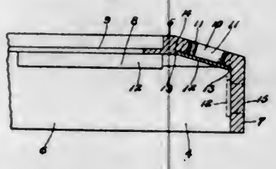
ing plates of one leaf being offset from the plane of their bearing plates such distance that when the hinge leaves are moved to closed position, the attaching plates will all lie in end-to-end relation.

1,785,363. AUTO THRILLER AND AMUSEMENT APPARATUS. HARRY ROCKS, Jr., Torrance, Calif. Filed May 14, 1929. Serial No. 362,889. 7 Claims. (Cl. 104—63.)



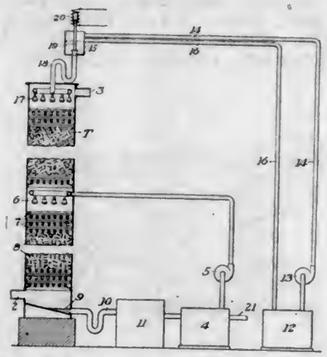
1. An auto thriller and amusement apparatus comprising a hill and dale runway for automobiles, said runway including cross members, one of said cross members being movably mounted, an electric contact connected with the movably mounted cross member, a stationarily mounted electric contact engageable by the first mentioned electric contact when the movably mounted cross member is depressed, and an electrically operated signal electrically connected with said contacts.

1,785,364. ORNAMENTED JEWELRY. JOHN SCHUMER, Cincinnati, Ohio. Filed Nov. 29, 1927. Serial No. 236,537. 2 Claims. (Cl. 41—34.)



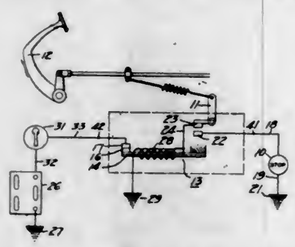
1. A watch case member comprising a stamping of thin sheet metal provided with an interior channel and an opposed exterior face to be decorated, the channel being ornamentally pierced and cut through, and an imperforate strip secured interiorly within the channel for closing the perforations and presenting an appearance of deep engraving.

1,785,365. PROCESS FOR THE REMOVAL OF NAPHTHALENE AND CARBON BISULPHIDE FROM GASES. GILBERT E. SEIL, Newark, N. J., assignor to Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 6, 1926. Serial No. 107,062. 4 Claims. (Cl. 23—3.)



1. In a process of removing both naphthalene and carbon bisulphide from flowing fuel gas containing them, the steps comprising recirculating in the path of the gas a solvent which will absorb both naphthalene and carbon bisulphide, withdrawing portions of the solvent to reduce the amount of naphthalene contained in the recirculated body of solvent, adding relatively fresh solvent to maintain the solvent at a substantial degree of purity, and treating the recirculated solvent to remove carbon bisulphide therefrom and thus maintain in the solvent a substantial capacity for absorbing carbon bisulphide from the gas.

1,785,366. SIGNALING SYSTEM. MILTON H. SHOENBERG and LESTER SCHON, San Francisco, Calif.; said Schon assignor to said Shoenberg. Filed June 7, 1927. Serial No. 197,057. 3 Claims. (Cl. 177—339.)

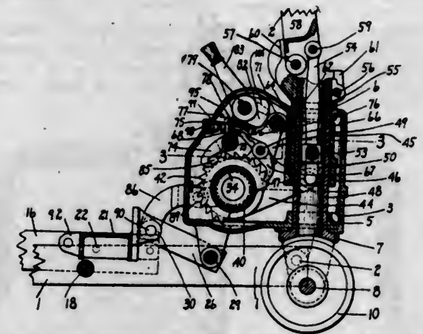


2. In combination with an automobile having the usual engine ignition switch, a signaling system including a signal lamp, a circuit for said lamp including a source of current, a switch adapted to be operated by a driver to open and close the lamp circuit, and a thermostatic flasher connected to said source of current in series with the ignition switch whereby the flasher is continually operated when the ignition switch is closed, the contacts of said flasher being connected in series with said driver operated switch.

1,785,367. COATING COMPOSITION AND METHOD OF PREPARING THE SAME. CARL H. SIEVER, Oak Park, Ill. Filed Feb. 2, 1927. Serial No. 165,503. 3 Claims. (Cl. 134—17.)

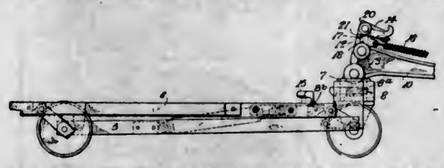
1. A coating composition including a cellulose derivative, an organic solvent, and an artificial isomer of rubber obtained by heating rubber with an acid reagent having the formula $R—SO_2—X$, where R is an organic radicle or a hydroxyl group, and X represents a halogen or a hydroxyl group.

1,785,368. TRUCK. WILLIAM STUEBING, Jr., Cincinnati, Ohio, assignor, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn., a Corporation of Connecticut. Filed Aug. 14, 1922, Serial No. 581,724. Renewed Apr. 22, 1930. 40 Claims. (Cl. 254—10.)



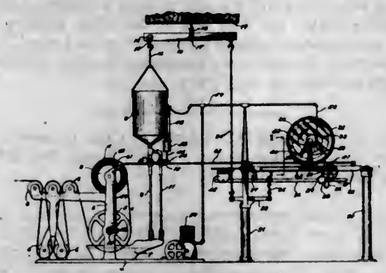
1. A lifting truck including a wheel supported frame, an elevating platform carried by said frame, a steering handle for said frame, means actuated by said handle for raising said platform and including an operating member, locking means for the platform including a pawl-carrying member, a pawl pivoted thereto, and a control member engageable with and disengageable from the operating member and pawl-carrying member to effect disengagement of the operating member and the pawl.

1,785,369. LIFT TRUCK. WILLIAM STUEBING, Jr., Cincinnati, Ohio, assignor, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn., a Corporation of Connecticut. Filed Oct. 14, 1927. Serial No. 226,072. 22 Claims. (Cl. 254—10.)



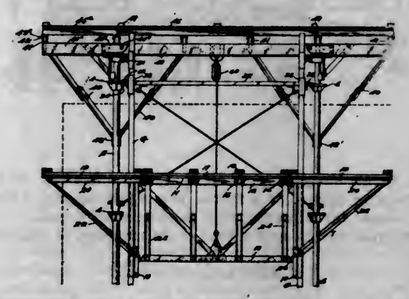
1. A lifting truck comprising in combination an elevating frame, a steering lever arranged to swing in a vertical plane, and means for connecting the steering lever and the elevating frame to raise the latter comprising an extensible link connected to one part and arranged to be manually engaged with the other part.

1,785,370. FLOW-CONTROLLING SCALE. EDWARD G. THOMAS, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Sept. 10, 1923. Serial No. 661,733. 3 Claims. (Cl. 91—18.)



1. In a device of the class described, in combination, means for delivering sheet material, means for applying liquid treating compound thereto, means for squeezing a portion of the compound so applied from said sheet material, to secure a definite degree of saturation, and means for indicating variations in the ratio of the rate of producing said saturated sheet material to the rate of accretion of weight of the product.

1,785,371. ADJUSTABLE SKIP HOIST. WILLIAM G. VENARD, Long Beach, Calif. Filed Apr. 9, 1928. Serial No. 268,729. 9 Claims. (Cl. 214—95.)

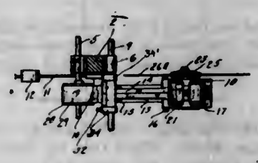


1. A skip hoist and scaffold apparatus including a standard and guide structure including a header means, and an unloading deck adjustably connected to the header means.

1,785,372. ALLOY. JONATHAN NEWTON WHITE, New York, N. Y. Filed Nov. 12, 1929. Serial No. 406,722. 2 Claims. (Cl. 75—1.)

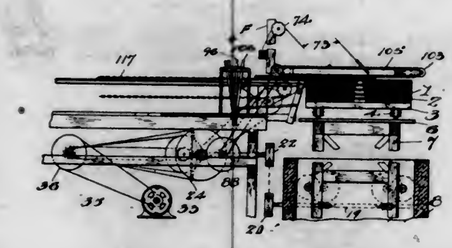
2. An alloy comprising 93 to 95% copper, 1 to 1¼% manganese, and the balance zinc.

1,785,373. HAND-OPERATED LUMBER TRIMMER. CHARLES WILLIAM WILLETTE, Portland, Oreg. Filed Apr. 9, 1928. Serial No. 268,728. 3 Claims. (Cl. 143—41.)



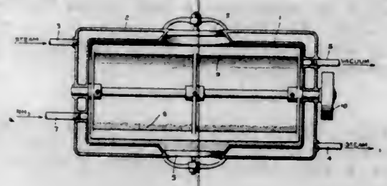
1. In a device of the class described, in combination with a lumber trimmer, a saw arbor frame comprising two complementary arm members extending forward and rearward respectively, a support bracket comprising a sleeve having a downwardly and rearwardly directed elbow provided with a bore in parellel alignment with the sleeve, the sleeve being pivotally connected with a journal bearing block by a supporting shaft, the rearwardly extending arm member, having a weighted element adjustably positioned thereupon being removably secured to elbow of the support bracket, the forwardly extending arm member being pivotally connected to the support bracket by a secondary shaft extending through bores of the support bracket, the forwardly extending arm being split and having housings with inwardly projecting annular faces, a pulley positioned within annular faces and round saw arbor maintained in alignment with driving shaft pulley.

1,785,374. UNSTACKING MACHINE. ALBERT E. BRONSON and ALFRED M. BRADEN, Gibbs, Idaho; assignors to Union Iron Works, Spokane, Wash. Filed July 16, 1928. Serial No. 293,209. 2 Claims. (Cl. 214—8.5.)



1. In an unstacking machine, the combination with an unstacking device, of a frame, a movable housing thereon and means for adjusting said housing with relation to the unstacking device, and a feed chain mounted in said housing.

1,785,375. AMMONIUM-PHOSPHATE FERTILIZER COMPOSITION AND METHOD OF MAKING THE SAME. GUY H. BUCHANAN, Westfield, N. J., assignor to American Cyanamid Company, New York, N. Y., a Corporation of Maine. Filed Jan. 28, 1927. Serial No. 164,345. 7 Claims. (Cl. 23—106.)



1. A method of making an ammonium phosphate composition which comprises treating mono-ammonium phosphate in a substantially dry condition with ammonia.

1,785,376. ORTHOPEDIC APPLIANCE. IRWIN BUCKNER, Spokane, Wash. Filed Dec. 22, 1928. Serial No. 327,822. 2 Claims. (Cl. 128—81.)



1. An orthopedic appliance comprising a pair of angular clamp levers each having an end hook and an intermediate fulcrum point, said levers having eyes at their adjoining ends and a flexible tension tie connecting said eyes, and a tension link on the tie, whereby the link may be turned to vary the tension of the tie.

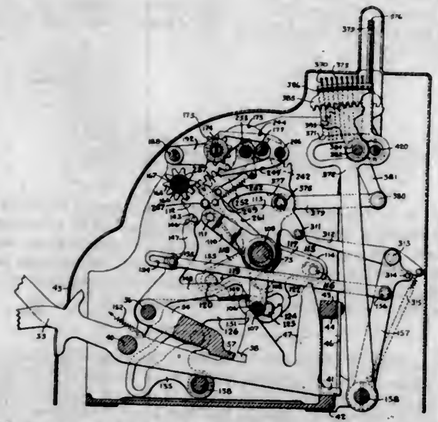
1,785,377. LOUD-SPEAKER. LEE DE FOREST, New York, N. Y., and RICHARD HALPENNY, Washington, D. C., assignors, by mesne assignments, to General Talking Pictures Corporation, a Corporation of Delaware. Filed Dec. 1, 1926. Serial No. 151,857. 12 Claims. (Cl. 181—27.)



1. In a loud speaker, the combination with a logarithmic horn and a cone mounted thereon of separate means for vibrating said horn and cone.

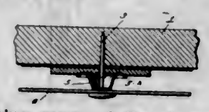
5. In a sound producing device, the combination with a horn having a bell and a baffle plate in said bell of a vibratile cone mounted on back of said plate.

1,785,378. CASH REGISTER. JOHN P. FRANK, Dayton, Ohio, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Filed Jan. 28, 1926. Serial No. 84,350. 21 Claims. (Cl. 235—7.)



3. In a machine of the class described, the combination of complementary movable pivoted members, a slidable actuating plate, pin and slot connections between said plate and members, means for operating said plate, and a differentially movable arm for controlling the adjustment of said members by said plate.

1,785,379. SHEATHING PAPER. CARL GILMORE, Oakland, Calif. Filed June 1, 1929. Serial No. 367,806. 4 Claims. (Cl. 154—50.)



1. In sheathing paper of the character described, a sheet of paper, a plurality of relatively narrow spaced

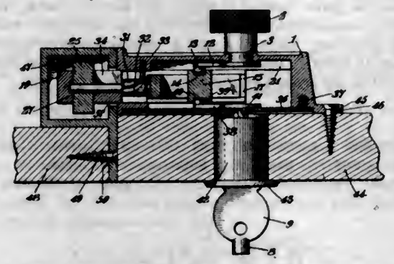
binding strips disposed flat against one side thereof and cemented thereto and forming an integral part thereof, said strips formed of a composition containing a larger percentage of mineral substance than is contained in the composition comprising said sheet of paper.

1,785,380. BAG-FRAME CLASP. WILLIAM C. HIBBING, Newark, N. J., assignor to J. E. Mergott Company, Newark, N. J., a Corporation of Delaware. Filed Oct. 11, 1928. Serial No. 311,750. 3 Claims. (Cl. 298—228.)



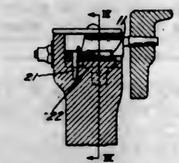
1. A clasp for latching bag frame members comprising a base plate, a cap, and a body portion intermediate said base plate and cap, said body portion having integral loop extensions passing through the base plate by which it may be pivotally mounted on a bag frame member.

1,785,381. LOCK. JOHN HOLTZMAN, New York, N. Y., assignor to Francis Keil & Son, Inc., a Corporation of New York. Original application filed May 12, 1925, Serial No. 14,980. Divided and this application filed June 13, 1925. Serial No. 36,801. 24 Claims. (Cl. 70—14.)



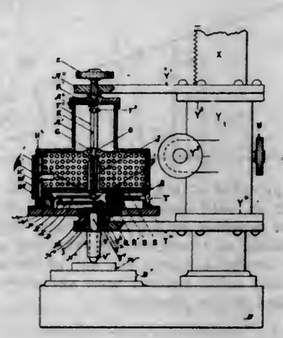
1. A lock having a bolt, a rotary bolt member carried by the bolt, adapted to be thrown out of the path of movement of the bolt when the bolt is in locking position, and a detent adapted to be moved into the path of movement of the rotary bolt member to prevent the movement of said rotary bolt member.

1,785,382. WEIGHING SCALE. SAMUEL N. HURT, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Mar. 12, 1828. Serial No. 260,862. 7 Claims. (Cl. 308—2.)



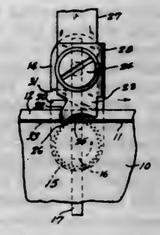
1. In a device of the class described, a frame, a member provided with a pivot, a bearing carried by said frame and supporting said pivot, a resilient clip adapted to secure said bearing against displacement, the parts being arranged so that said clip may be distorted to permit removal of the bearing.

1,785,383. PRECISION GAUGE. WILLIAM JANDUS and HERBERT S. JANDUS, East Cleveland, Ohio. Filed June 5, 1922. Serial No. 566,119. 10 Claims. (Cl. 33—147.)



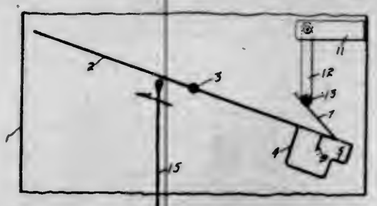
1. A gauge of the character set forth comprising a base, a measuring element disposed in operative relation to said base and adapted to move relative thereto, a lever system connected to said element, torsional spring means connected to said lever system, an indicating needle carried by said torsional spring means, and means for varying said lever system to vary the ratio of movement between said element and needle.

1,785,384. CAN OPENER. JOHN KOVATS, Bridgeport, Conn., assignor to Lorraine Metal Manufacturing Company, Bridgeport, Conn., a Corporation of New York. Filed Sept. 26, 1927. Serial No. 221,924. 1 Claim. (Cl. 30—3.)



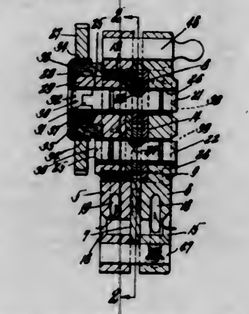
In a can opener, an upright support, an upright toothed wheel mounted in the lower part of said support to engage under the outer side of the flange at the end of the can, a finger piece for operating said wheel, said support having a lateral guide and stop to extend inwardly over and engage the top of the flange to the rear of the wheel, a lever pivoted to the support above the wheel to swing in an upright plane, and a cutter on said lever in front of the guide having a point to pierce the can and an inclined cutting edge forwardly of the point to cut the end of the can after the point is forced through it, said cutter also having a lateral flange extending over one edge of the lever to cause the cutter to turn with the lever, said lever being mounted between the cutter and the support to space the cutter inwardly from the support and including an operating handle to swing the cutter to cutting position, said cutter and lever being limited by said stop in its turning movement under action of the top being cut by said guide.

1,785,385. FLUE DAMPER AND LATCHING MECHANISM. GEORGE E. LAUER, Oakland, Calif. Filed Nov. 1, 1928. Serial No. 316,380. 7 Claims. (Cl. 126—285.)



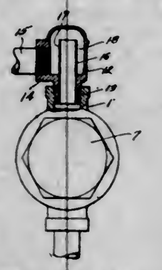
1. A flue provided with a pivoted damper, a catch member provided on said damper, a pendulum supported by said flue and provided with a horizontally extending portion for guilding said horizontally extending portion in a closed path around and into and out of latching engagement with said catch member upon successive movement of the damper in one direction.

1,785,386. METERING PUMP. FREDERIC MCINTYRE, Newton, Mass. Filed Sept. 8, 1927. Serial No. 218,340. 11 Claims. (Cl. 103—126.)



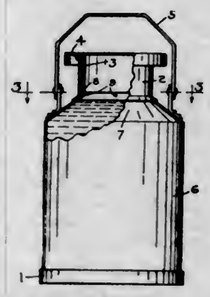
1. A metering pump for delivering fluid cellulose compound to be spun into artificial silk comprising a casing having interior circular chambers for the reception of pump gears and inlet and outlet passages to and from such chambers, straight spur gears located in said chambers, and rotatable shafts on which said gears are mounted and rigidly fixed, having bearings in the casing, said bearings extending and opening to the exterior of the casing and providing channels for the flow from said chambers past the gears and shafts of a controlled quantity of the fluid being pumped, for lubrication.

1,785,387. DIRT TRAP FOR THERMOSTATS. CLARENCE H. MONROW, Cleveland, Ohio, assignor to The Hotstream Heater Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 9, 1927. Serial No. 204,652. 1 Claim. (Cl. 183—75.)



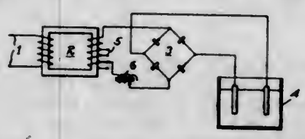
A dirt trap for thermostatic regulators, comprising a one-piece hollow casing having a closed end and provided at the other end with an elongated extension threaded externally for direct connection with a thermostatic regulator, the threaded extension having a through bore, a split tube press-fitted in said bore and extending into the chamber of the casing, said casing having a lateral opening towards the extending portion of said tube and internally threaded for connection with a gas supply pipe, whereby the trap may take the place of a standard elbow pipe fitting and will serve its purpose in any position.

1,785,388. SELF-DRAINING OIL CAN. SWAN E. NORD, Seattle, Wash. Filed Oct. 23, 1928. Serial No. 314,524. 4 Claims. (Cl. 220—1.)



1. A self-draining oil can, comprising a body portion, a neck, a top slidably engaged within the neck, an apertured extension to the body portion projected into the neck, providing, when the can is inverted, a member for diverting drainings of oil from the body portion away from the joint formed between the top and neck, in their sliding engagement, and directing the same into said top, and affording, when the can is upright, a circumferential channel located between the extension and the neck for draining oil from the top into the body portion.

1,785,389. PROCESS FOR CONTROLLING ELECTROPLATING. ROBERT J. PIERSOL, Pittsburgh, Pa. Filed Jan. 14, 1929. Serial No. 332,896. 5 Claims. (Cl. 204—1.)



1. A plating system including a plating solution having two electrodes therein, and means for supplying a plating current thereto comprising a source of alternating current, a transformer having its primary winding connected to said source, and rectifying means connected between the secondary winding of the transformer and the electrodes in the plating solution, and means for controlling the amplitude and the phase condition of the current supplied to the rectifying means.

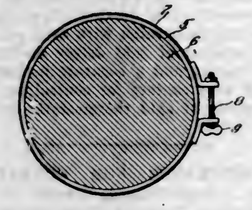
1,785,390. TIRE BOOT. WALTER R. PINNEO, Marshalltown, Iowa. Filed May 28, 1927. Serial No. 193,546. 1 Claim. (Cl. 152—24.)

A device of the character described comprising a flexible body consisting of superposed layers of pliable material, rows of flat metal disks disposed in spaced relation to opposite side edges of said body, the disks of each row being spaced from each other longitudinally of the body, and fasteners for said disks passed through the disks centrally thereof and through said body and having heads at their outer ends bearing against the outer faces of the disks, portions of each disk between its fastener and the margin of the disk being struck outwardly to form circumferentially spaced openings through the



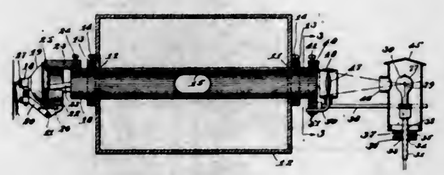
disk and an outstanding bordering flange for each opening, the bordering flanges being serrated to form teeth adapted to bite into a tire casing and prevent the device from slipping.

1,785,391. METHOD OF MAKING BRAKE BANDS AND THE LIKE. THOMAS M. RUSSELL, Middletown, Conn., assignor to The Russell Manufacturing Company, Middletown, Conn., a Corporation of Connecticut. Filed Nov. 26, 1926. Serial No. 150,787. 8 Claims. (Cl. 18—47.5.)



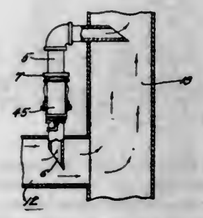
1. The method of making brake bands and other articles of the class described which consists in producing a strip of material comprising or including suitable indurating material, then condensing the strip by compression in the presence of heat, then relieving the strip of compression and while the strip is still warm and sufficiently pliable bending the same into the required curved form of the desired brake band or the like, and then allowing the article to cool and become permanently set in the said curved form.

1,785,392. DEVICE FOR INDICATING AND RECORDING THE QUALITY OF SMOKE. FRANK SAWFORD and FRANK SAWFORD, Jr., Vancouver, British Columbia, Canada. Filed Mar. 28, 1927. Serial No. 178,963. 3 Claims. (Cl. 88—14.)



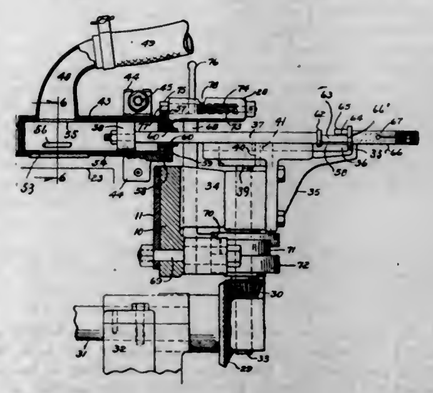
1. In combination, a flue or smoke passage having two oppositely disposed open orifices to permit the entrance of air into the flue, a source of light outside the flue adjacent one of said orifices, a light-sensitive device outside the flue adjacent the other of said orifices, said light source and light sensitive device being aligned with said orifices and spaced therefrom to provide an annular passage between said orifices and the outside air, an indicator, electric connections between the light-sensitive device and said indicator, and means for enclosing the path of the ray through the flue except for a predetermined distance.

1,785,393. APPARATUS FOR DETERMINING THE DENSITY OF SMOKE. FRANK SAWFORD, Vancouver, British Columbia, Canada, assignor of one-half to Frank Sawford, Jr., Vancouver, British Columbia, Canada. Filed Nov. 19, 1928. Serial No. 320,387. 1 Claim. (Cl. 84—14.)



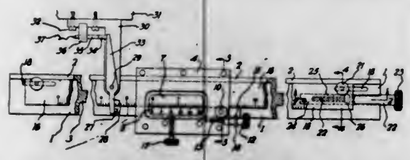
In an apparatus for indicating the density of smoke in a flue, stack, or the like, in combination, a by-pass pipe extending in the direction of flow of smoke in said flue, two oppositely disposed alined orifices in said by-pass pipe, a source of light arranged to throw a ray through said orifices, a light sensitive device for receiving said light ray, said orifices being disposed in a line perpendicular to the path of travel of smoke in said by-pass pipe, and means for indicating the density of the smoke in response to the impression of said light upon said device, said by-pass pipe extending into and being arranged in said flue so as to receive for passage therethrough a representative sample of smoke passing through said flue.

1,785,394. BATTER-FEEDING DEVICE FOR PASTRY-CAKE MACHINES. CHARLES SCHROEDER and HARRY TATOSIAN, Bridgeport, Conn., assignors to Ice Cream Cone Machinery Inc., Bridgeport, Conn., a Corporation of Connecticut. Filed Jan. 3, 1928. Serial No. 244,164. 2 Claims. (Cl. 107—28.)



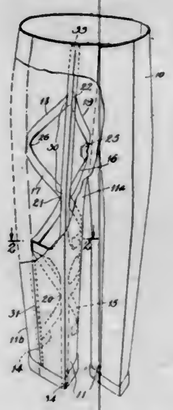
1. In a batter feeding device, a casing having inlet and outlet openings, a rocker cylinder in the casing and having an inlet and an outlet, a piston within the cylinder, a driven shaft, means on the shaft for reciprocating the piston, a cam on the shaft, means rocked by the shaft, a retractable spring, pressed pin connecting said means with the cylinder whereby the cylinder will rock with the means, and means to retract the pin and secure it in inoperative position whereby the cylinder will not be moved by said means.

1,785,395. ZEROIZING SCALE FOR WORK-POSITIONING MECHANISM FOR MACHINE TOOLS. JOHN C. SHAW and ROBERT D. SHAW, Brooklyn, N. Y., assignors to Keller Mechanical Engineering Corporaton, Brooklyn, N. Y., a Corporation of New York. Filed Jan. 3, 1928. Serial No. 244,167. 5 Claims. (Cl. 90—58.)



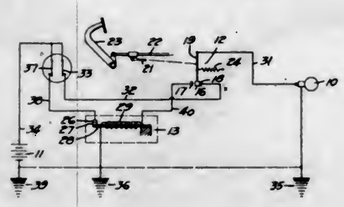
1. A zeroizing scale for work positioning mechanism for machine tools wherein a work table is movable relative to the tool, comprising a graduated scale, means for supporting said scale on the work table parallel to the direction of motion thereof, a slide-way on said supporting means, a slide block mounted on said slide-way for adjustment along the scale, a vernier bar on said slide block adjustable relative to said scale, means for clamping the vernier bar to the slide-way in any adjusted position relative to the scale, a lever, carrying contacts controlling motion of the work table, located in position to be actuated by said vernier bar, as the latter moves with the work table, to open the contacts and stop said motion, and means for adjusting said scale relative to the vernier bar, after the latter has stopped motion of the work table, for zeroizing the scale, whereby the work may be positioned by adjusting the vernier bar according to measurements from the zero of the zeroized scale.

1,785,396. KNEE PROTECTOR FOR TROUSERS. CHARLES SHEFFOLD, Clinton, Conn. Filed Sept. 19, 1929. Serial No. 393,636. 8 Claims. (Cl. 2—231.)



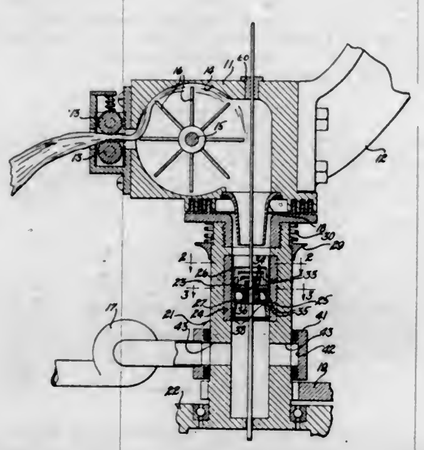
1. In combination with the leg portions of a pair of trousers including side seams, a protector for each leg portion comprising a transverse band adapted to be positioned at the forward part of the knee portion of a trouser leg, means involving strap members attached to the ends of said band and arranged diagonally with reference thereto for taking up the stress to which said transverse band is subjected, the ends of said transverse band being attached to the side seams of the trouser leg, the ends of said strap members being also attached to the side seams of said trouser leg and other strap members extending from the ends of one set of the first named strap members at said side seams to a point in alignment with the crease in the trousers, and means for supporting the last named ends of said strap members in connection with the trousers.

1,785,397. AUTOMOBILE SIGNALING SYSTEM. MILTON H. SHOENBERG and LESTER SCHON, San Francisco, Calif.; said Schon assignor to said Shoenberg. Filed Oct. 5, 1927. Serial No. 224,123. 4 Claims. (Cl. 177—337.)



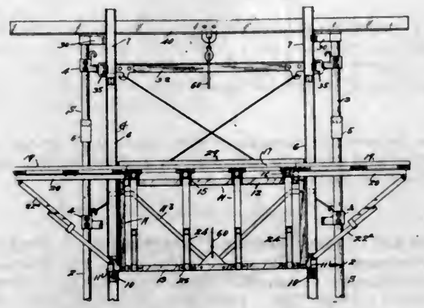
2. In a signaling system adapted to be used with a motor vehicle having an ignition switch, a signal lamp, a thermostatic flasher switch having its heating coil and normally closed contacts connected in series with said ignition switch, a driver operated switch having front and back contacts and connected to said lamp, said front contacts connected to said heating coil so that said signal lamp is connected in parallel with said coil to flash said lamp upon operation of said driver operated switch in applying the brakes, and a separate manual switch connected to said back contact for controlling the lamp circuit independently of said thermostatic switch.

1,785,398. APPARATUS FOR COVERING CORES. BRUNO MAX ALFRED TREBES, Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 11, 1927. Serial No. 225,458. 12 Claims. (Cl. 19—145.)



1. In an apparatus for applying a fibrous covering to a core, means for feeding fibrous material to the apparatus at a predetermined rate, a wheel having a plurality of paddles and provided with pins on one of the paddles for separating the fibrous material into individual fibers, and means for applying the fibers to the core.

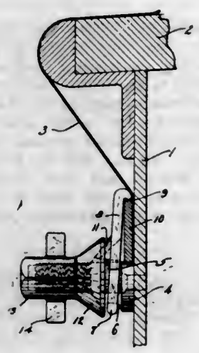
1,785,399. SCAFFOLD. WILLIAM G. VENARD, Los Angeles, Calif. Filed Nov. 4, 1929. Serial No. 404,620. 6 Claims. (Cl. 304—2.)



1. A skip hoist and scaffold apparatus, including a pair of sectional standards and a pair of channel guides, spaced forwardly thereof, foot-irons and crown-irons connecting the respective parts of the standards and guides and transverse braces connecting the standards and having forwardly reaching arms to gage the guides.

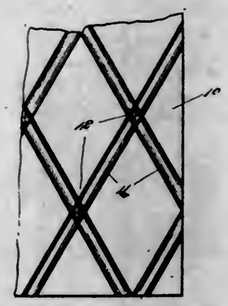
4. In a skip hoist, a skip structure including upper and lower cross-bars which are connected by upright stiles forming a rigid frame; the upper bar having at its ends back shoes to run in guides, and lugs attached to the ends of the lower bar and having front shoes to run in said guides.

1,785,400. BATTEN CLAMP. FREDERICK W. WATSON, Cleveland Heights, Ohio. Filed Dec. 31, 1928. Serial No. 329,595. 2 Claims. (Cl. 114—203.)



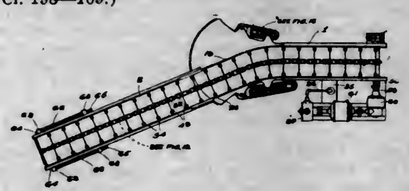
1. In combination with a hatch combing, batten stop means arranged thereon, loose battens engaging the stop means and a plurality of batten clamps each having a single hook engaging the outer face and upper edge of the batten, clamp stop means for resisting the inward thrust of the clamps to force their upper ends toward said batten, and means engaging said clamps and exerting inward and downward thrust thereon.

1,785,401. GLASS ORNAMENTATION. EMANUEL ZUCKERBERG, Providence, R. I. Filed Nov. 6, 1929. Serial No. 405,205. 9 Claims. (Cl. 41—21.)



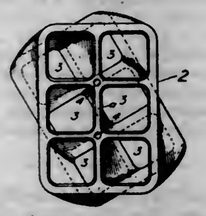
8. A glass panel provided on one face thereof with ornamental grooves having convex bottom walls and diverging side walls.

1,785,402. ARTICULATED CONVEYER. EINAR M. AARENTZEN, Franklin, Pa., assignor to Joy Manufacturing Company, Franklin, Pa., a Corporation of Delaware. Filed Dec. 26, 1928. Serial No. 328,500. 3 Claims. (Cl. 198—109.)



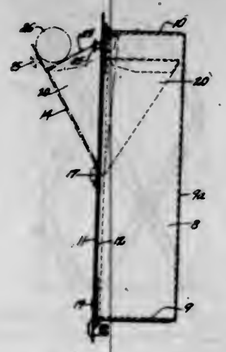
2. A conveyer organization of the endless chain and scraper type comprising in combination a main frame for said conveyer consisting of two longitudinally-alined, articulated, abutting sections one of which is adapted to have horizontal, radial adjustment relative to the other section. means operable to cause such adjustment, a deck for each of said sections the adjacent abutting ends of which decks are so arranged that material may be moved uninterruptedly thereover, a vertically-disposed flange for each side of said decks each of said flanges having a laterally flexible portion extending across the articulated area of said sections, scrapers adapted to travel upon and throughout the combined length of said decks to move material thereover, an endless chain connected and transmitting motion to said scrapers and means for driving said chain.

1,785,403. CONDUIT. EDWIN BABB, Aultman, Ohio, assignor, by mesne assignments, to National Fireproofing Corporation, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 2, 1928. Serial No. 274,533. 14 Claims. (Cl. 247—33.)



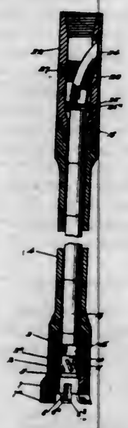
1. A transposing conduit section having substantially parallel end faces and having a curved duct for containing a current carrying conductor.

1,785,404. MAIL BOX. ALBERT EDGAR BLACKMAN, Mount Vernon, N. Y. Filed Sept. 8, 1927. Serial No. 218,193. 2 Claims. (Cl. 232—21.)



1. In a mail-box having a plurality of compartments open at the front, a master door, for closing the upper portions of all of said compartments, a plurality of hoods extending inwardly of the box and fixed upon the master door, a hood corresponding to each compartment and adapted to come within its corresponding compartment when the door is closed, each hood having a top and side portions in fixed relation to each other and being provided with a slot in its top for the introduction of mail, said hoods, except for their slots, obstructing access to the interior of their corresponding compartments when the master door is open.

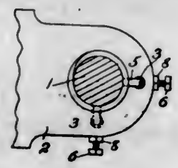
1,785,405. CORE-DRILLING BIT. RAPHAEL ROGERS CANDEE, McKittrick, and OSCAR FRED HARDING, Coalinga, Calif. Filed Oct. 5, 1927. Serial No. 224,197. 4 Claims. (Cl. 255—72.)



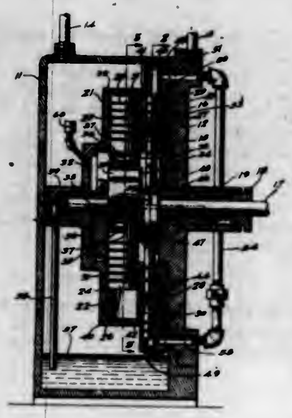
1. In combination, in a drill, a bit body head having a series of helical reaming blades with straight bottom cutting edges extending under the bottom of the body and a series of bottom cutting blades; the bottom edges of both series of blades lying in a common plane.

1,785,406. SCREW-THREAD CLEANER. ROBERT M. CORNETT, Kansas City, Mo. Filed Jan. 23, 1930. Serial No. 422,964. 6 Claims. (Cl. 74—40.)

1. In a screw thread cleaner, the combination with a screw and an internally threaded member fitted thereon, of a device rotatable on and slidably fitted to and adjustable inwardly on said member to a thread cleaning position between the threads of said screw, and means for forcing said device to said position and for holding said device from turning on said member.

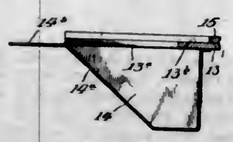


1,785,407. COMPRESSOR MECHANISM. WILFRED FOURNESS, Oakland, Calif., assignor to The Fourness Development Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 12, 1928. Serial No. 318,736. 7 Claims. (Cl. 230—185.)



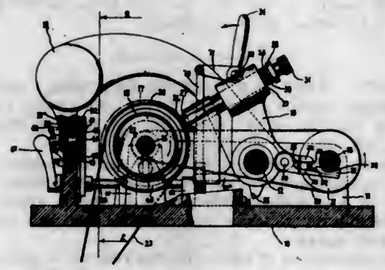
1. In a compressor mechanism the combination of a casing, a detachable cover for the casing, a shaft extending across the casing, said casing having one or more cylinder bores radial to the shaft, pistons in said bores, and a slide in the casing arranged to be reciprocated by the shaft and guided by the casing, said slide being in mechanical connection with the pistons, said connection being characterized by the fact that the slide is detachably dovetailed to the pistons, and that the cover prevents relative axial movement of the slide and the shaft, to prevent disconnection of the dovetailed connection.

1,785,408. ROTATABLE INDEXING TABLE. PHILIP A. FRAZIER, Chicago, Ill., assignor to R. R. Donnelley & Sons Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 10, 1928. Serial No. 318,383. 6 Claims. (Cl. 45—26.)



1. An indexing table comprising a stationary top having an opening therein, a movable member beneath said top having a series of pockets each adapted to hold indexing tabs of a given kind and each having an outer wall inclined to facilitate the removal of the tabs upwardly through the opening, and means on said movable member uncovered by said opening for identifying each of said pockets.

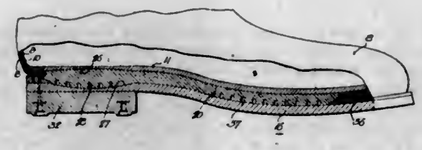
1,785,409. RECORD-RESURFACING MACHINE. VICTOR L. FRYKMAN, Bridgeport, Conn., assignor to Dictaphone Corporation, Bridgeport, Conn., a Corporation of New York. Filed July 23, 1927. Serial No. 207,848. 22 Claims. (Cl. 82—1.1.)



1. In a record-resurfacing machine, the combination of a mandrel for supporting a record to be resurfaced, a carriage, means determining the position of said carriage relative to said record, and means automatically operated as an incident to each successive movement of the carriage to initial resurfacing position for changing step by step the position of said determining means to bring said carriage into closer relation to said record.

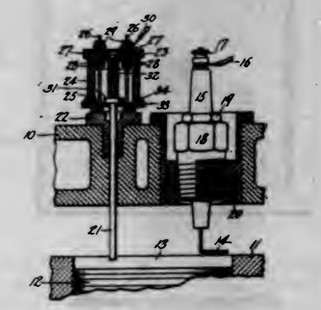
8. In a record-resurfacing machine, the combination of a frame; a mandrel for supporting a record to be resurfaced; a carriage mounted on said frame; a settable knife mounted on said carriage; means for locking said knife in set position; means for automatically advancing the knife toward the record; manually operable means for ejecting the record from said mandrel; and means operated coordinately with the operation of the record-ejector for restoring the knife-advancing means and releasing the knife-locking means.

1,785,410. CUSHIONED SHOE. FRANCIS M. GILKERSON, Beloit, Wis. Filed Feb. 13, 1930. Serial No. 428,109. 5 Claims. (Cl. 36—17.)



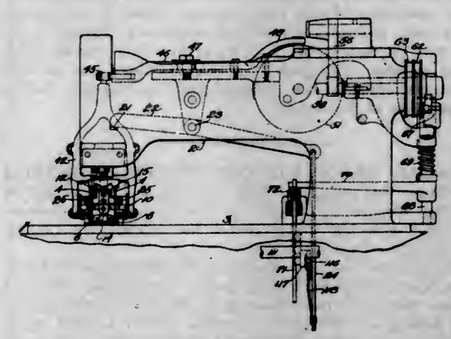
1. In a Goodyear welt shoe having a nailed seat, a cushion heel construction comprising a soft rubber member interposed between the inner and outer soles, a marginal frame member of stiffer material surrounding the outer edge portion of said soft rubber member and nailed to the heel seat, a heel, and nails passing through the outer sole, frame member and into the inner sole, said soft rubber member having a portion projecting over the inturned edge of the upper and counter flange at the heel seat.

1,785,411. IGNITION SYSTEM. WILLIAM F. HAMILTON, New York, N. Y., assignor of one-half to Frank S. Rollins, New York, N. Y. Filed Jan. 10, 1929. Serial No. 331,496. 5 Claims. (Cl. 123—148.)



1. An ignition system for internal combustion engines, comprising primary and secondary circuits, the primary circuit including a normally closed piston actuated circuit breaker, and the secondary circuit including a spark electrode disposed in a combustion chamber within sparking distance of a wall thereof.

1,785,412. LABEL-SEWING MACHINE. PERCY W. HATFIELD, Wakefield, Mass., assignor to Winship, Boit & Co., a Copartnership consisting of Charles N. Winship and Elizabeth S. Boit, Wakefield, Mass. Original application filed Feb. 4, 1924, Serial No. 690,359. Divided and this application filed July 24, 1925. Serial No. 45,861. 10 Claims. (Cl. 112—252.)

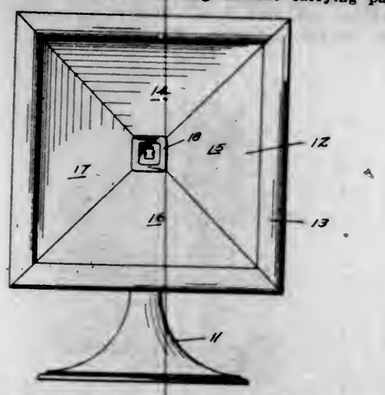


1. In a label sewing machine, the combination of sewing instrumentalities adapted to stitch simultaneously across opposite ends of a label, said instrumentalities including two needles spaced apart and shuttles cooperating with said needles, means for holding the label and the work in operative relationship to said instrumentalities, mechanism cooperating with said means to feed the work and the label past said instrumentalities, cutters operative to sever both the needle and shuttle threads, and a common actuating means for said cutters.

1,785,413. ELECTRIC REFLECTING HEATER. WILLIAM WESLEY HICKS, San Francisco, Calif. Filed June 23, 1927. Serial No. 200,885. 3 Claims. (Cl. 219—34.)

1. In an electrical heater, a reflector having an axis and of such form that sections perpendicular to the axis

are polygonal figures, and an electrical heating unit arranged on the axis and having current carrying parts



substantially paralleling the sides of said figures and forming a polygon at said sections similar to the said figure.

1,785,414. TYING STRING FOR SKEINS. HUGO HOFMANN, Johnson City, Tenn., assignor to American Bemberg Corporation, New York, N. Y. Filed May 14, 1930. Serial No. 452,494. 6 Claims. (Cl. 40—1.)



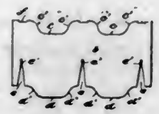
1. The method which consists in tying around a supported skein of artificial filaments a flexible marking member, consisting of only two portions, joined to each other, and each having a distinctive individual characteristic, so that the knot appears to the right of the person tying said member, and part of a predetermined one of said portions, adjacent the point of junction, appears on the upper face of the skein.

1,785,415. REMOVAL OF CARBON BISULPHIDE FROM GAS. WALTER J. KLAIBER, Pittsburgh, Pa., assignor to The Koppers Company, a Corporation of Delaware. Filed Apr. 22, 1927. Serial No. 185,927. 2 Claims. (Cl. 23—3.)

1. In a process of removing both naphthalene and carbon bisulphide from flowing fuel gas containing them, the steps comprising recirculating in the path of the gas an oil having solvent properties with respect to both naphthalene and carbon bisulphide, withdrawing portions of the solvent oil to reduce the amount of naphthalene contained in the recirculated body of solvent oil, adding relatively fresh solvent oil to maintain the solvent at a substantial degree of purity, and treating the recirculating solvent oil with an aqueous alkaline sulphide solution to remove carbon bisulphide therefrom and thus maintain in the solvent oil a substantial capacity for absorbing carbon bisulphide from the gas.

1,785,416. BOX PARTITIONING. LEON E. LA BOMBARD, Waltham, and MELVIN H. SIDEBOTHAM, West Newton, Mass., assignors to Specialty Automatic Machine Company, Chelsea, Mass., a Corporation of Massachusetts. Filed Dec. 2, 1929. Serial No. 411,090. 2 Claims. (Cl. 217—30.)

1. Box partitioning comprising two sets of strips crossing each other, both edges of each strip presenting alternating convexities and concavities, the convex portions of one edge being opposite the concave portions of the other edge, and one edge of each strip having notches alternating with its convexities, the middle portions of the



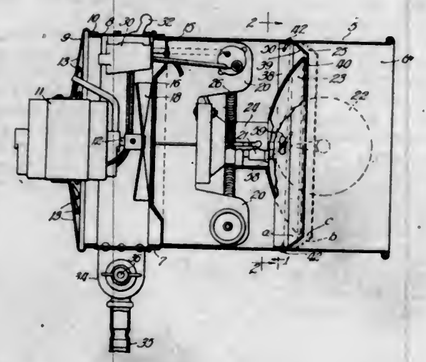
convexities and concavities presenting straight edge portions, there being only one straight projecting edge of substantial length on each strip for each pocket whereby an elongated bearing foot is provided.

1,785,417. PAINT AND VARNISH REMOVER. JOSEPH J. MCEVOY and CHARLES H. UPSON, Waterbury, Conn. Filed Mar. 17, 1928. Serial No. 262,598. 5 Claims. (Cl. 87—5.)

3. A pasty composition of matter for the removal of paint, varnish, and lacquer resulting from the mixing together in a colloidal suspension of a caustic alkali, an alkaline silicate, water, a water soluble iron salt and a thickening agent.

5. A composition of matter for the removal of paint, resulting from the mixing together of about 10.45% caustic soda, 9.14% water glass (40—42 degrees Baumé), 69.55% water, .71% copperas, and 10.15% flour.

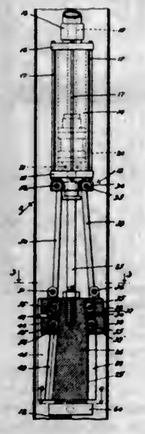
1,785,418. HAIR DRIER. WILLIAM MEYER, Chicago, Ill. Filed Sept. 4, 1928. Serial No. 303,893. 13 Claims. (Cl. 34—96.)



1. In a device of the class described, the combination of a casing, means for projecting a blast of air therefrom, means for simultaneously heating the air and means for adjusting the volume of the air blast projected from said casing for adjusting the heat effect upon the head, said means comprising a deflector spaced peripherally from the interior of the casing with a peripheral passage between the periphery of the deflector and the interior of the casing and a ring adjustable within the casing for adjusting said peripheral passage.

1,785,419. WELL-CASING PERFORATOR. ROSCOE MOSS, Los Angeles, Calif., assignor to Roscoe Moss Company, a Corporation of California. Filed Apr. 15, 1929. Serial No. 355,074. 3 Claims. (Cl. 81—188.)

1. A casing perforator embodying: a mandrel; a holding block and a cutter guide-block in sliding engagement with surfaces on said mandrel and adapted to move laterally into engagement with the inner surface of a casing; supporting means for said mandrel; supporting means for said holding block and said cutter guide-block; and means for effecting relative transverse movement between said mandrel and said blocks, the surface of said mandrel



which engages said holding block comprising a tapered section and an untapered section and the surface of said mandrel, which engages said cutter guide-block comprising a tapered section which extends beyond the point at which the tapered and untapered section merge on the surface engaging said holding block.

1,785,420. SEPARABLE FASTENER SLIDER AND METHOD OF MAKING SAME. ROBERT H. NICHOLSON, Meadville, Pa., assignor to Hookless Fastener Company, a Corporation of Pennsylvania. Filed Oct. 12, 1928. Serial No. 312,097. 20 Claims. (Cl. 29—148.)

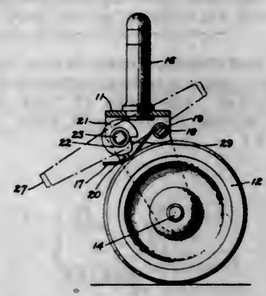


1. The herein described method of making a slider for separable fasteners which has superposed wings with guide flanges projecting from the opposed faces of the wings, which comprises coining flanged wing blanks from flat metal stock, separating the blanks from the stock, and disposing the coined wings in opposing relation.

17. A one piece separable fastener slider formed of metal and comprising parallel wings having overlying flat-faced coined flanges extending inwardly from the side edges thereof to stiffen the slider and having the inner edges of said flanges formed to guide interlocking members between them.

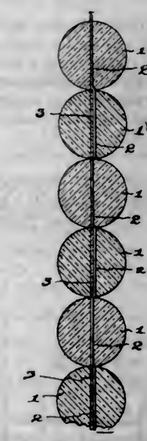
1,785,421. BRAKE STRUCTURE FOR CASTER WHEELS. HANS P. NIELSEN, Alameda, Calif., assignor to Eames Company, San Francisco, Calif., a Corporation of California. Refiled for application Serial No. 247,048, dated Jan. 16, 1928. This application filed Feb. 19, 1930. Serial No. 429,839. 3 Claims. (Cl. 16—35.)

1. A caster including a fork, a wheel embraced thereby, a pivotal brake member carried by the fork and adapted to engage the peripheral surface of the wheel, spring means constantly tending to maintain said brake member out of



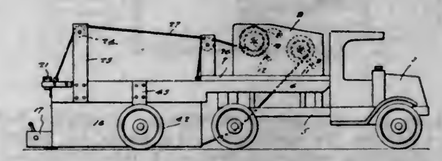
contact with the wheel, and operative cam means adapted to press said brake member into firm contact with the periphery of the wheel.

1,785,422. HIGHWAY SIGNAL. NIELS JORGEN NIELSEN-KLOPSKOV, Ringsted, Denmark. Filed Aug. 18, 1927, Serial No. 213,936, and in Denmark Aug. 18, 1926. 2 Claims. (Cl. 40—125.)



1. A highway signal comprising a frame, and a plurality of translucent coloured bodies and light-reflecting bodies alternately arranged on said frame and visible from either side of the highway.

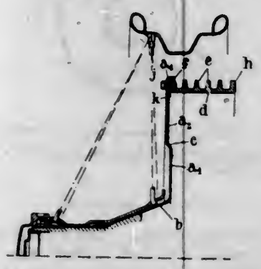
1,785,423. SNOW-HAULING TRUCK. JOSÉ ANGEL ORTIZ, New York, N. Y. Filed Dec. 7, 1929. Serial No. 412,454. 5 Claims. (Cl. 37—5.)



1. In an apparatus of the class described, a wheeled truck, a frame on the truck having an opening, a body mounted in the opening in the frame, means for lowering and raising the body through said opening, a bottom clos-

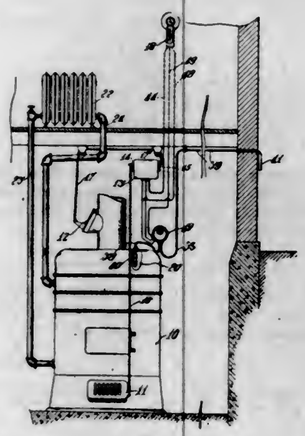
ure in the body having a knife edge at its inner end, means movably mounting the bottom closure, and means for sliding the bottom structure to open and closed position.

1,785,424. BRAKE DRUM. JOHN VERNON PUGH, Coventry, England, assignor to Rudge-Whitworth, Limited, Coventry, England. Filed Nov. 22, 1926, Serial No. 150,094, and in Great Britain Dec. 1, 1925. 12 claims. (Cl. 188—218.)



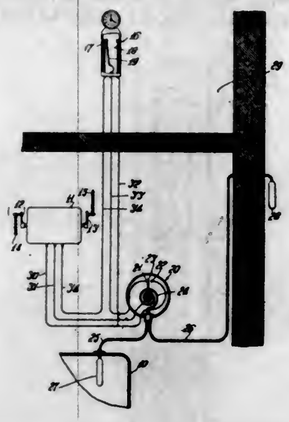
1. A vehicle wheel braking device having in combination a thin plate metal disc upset centrally from a flat plate to afford increased rigidity and a vehicle wheel brake ring of not less than double the thickness of the material of said disc fastened thereto by a series of attachment means distributed around the axis of rotation.

1,785,425. APPARATUS FOR CONTROLLING HEATING SYSTEMS. FRED I. RAYMOND, River Forest, Ill. Filed Jan. 3, 1928. Serial No. 244,225. 23 claims. (Cl. 236—9.)



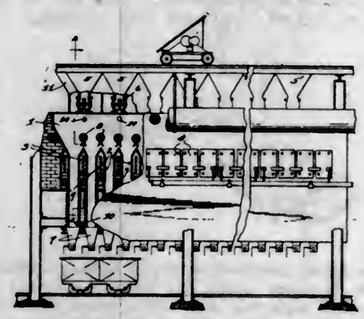
1. In a heating system employing a circulating fluid as a medium, the combination of a heater for heating the circulating medium, a thermostat responsive to temperature fluctuations in the space to be heated, a thermostat the response of which is conditioned upon temperature fluctuations of the medium and also of the outdoors atmosphere, and mechanism for controlling the heater which is governed by the joint action of said thermostats.

1,785,426. METHOD OF HEATING. FRED I. RAYMOND, River Forest, Ill. Filed July 16, 1928. Serial No. 293,293. 15 claims. (Cl. 236—9.)



1. Method of heating which comprises controlling the introduction of heat to the space heated in accordance with temperature fluctuations of said space and also of the heating medium, and varying the temperatures at which the heating medium effects its control in accordance with temperature changes of the outside atmosphere.

1,785,427. COMBINED ORE-REDUCING AND HYDROCARBON-REFINING APPARATUS. WILLIAM H. SMITH, Detroit, Mich. Filed Dec. 27, 1926. Serial No. 157,225. 24 claims. (Cl. 263—10.)

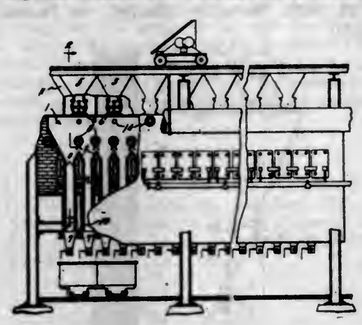


1. Apparatus of the type described comprising a retort for receiving one or more continually moving streams of ore and a heat unit positioned intermediate the ends of and substantially confined within the mass of continually moving ore to define a fixed limited heating zone, the heat being produced by electrical resistance means.

1,785,428. PROCESS OF REDUCING ORE AND CONVERTING HYDROCARBONS. WILLIAM H. SMITH, Detroit, Mich. Filed Apr. 4, 1927. Serial No. 180,746. 21 claims. (Cl. 75—14.)

1. In the art of reducing metallic oxides and cracking hydrocarbons without melting the charge, the steps of preparing a charge containing the oxides to be reduced, adding a heavy hydrocarbon to the charge, continuously feeding the charge through a fixed temperature zone

maintained at a temperature sufficient to crack the hydrocarbons in the presence of the materials of the charge removing the cracked hydrocarbons at a predetermined



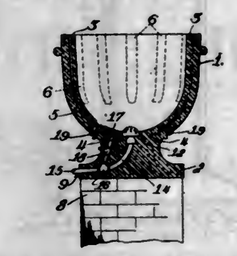
point, relative to said zone and completely reducing the ore without melting during the same operation by a reducing agent present in the charge.

1,785,429. METHOD OF AND MEANS FOR PRODUCING AND DISPLAYING CHANGEABLE SIGNS FOR ADVERTISING PURPOSES. ALBERT EDWARD TILBURN, Melbourne, Victoria, Australia. Filed May 2, 1929. Serial No. 359,854, and in Australia May 8, 1928. 14 Claims. (Cl. 40—28.)



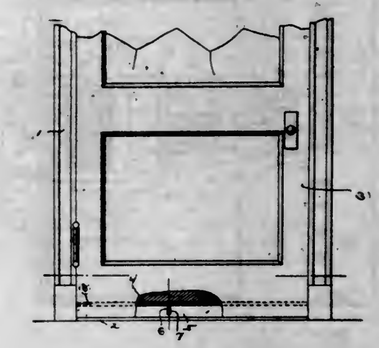
1. A method of producing and displaying luminous signs, announcements and the like for advertising or other purposes, which consists in arranging a translucent sheet or screen between a source of light and a reflector, coating that surface of the sheet which is remote from the reflector with an opaque substance, and progressively removing portions of the opaque coating from said screen whereby light will pass through the resultant translucent portions of the screen onto said reflector so that the desired luminous sign appears progressively upon said reflector and is thereby reflected clear of said screen.

1,785,430. FLOWER URN. CARL LEONARD AGNELL, Chicago, Ill. Filed Sept. 9, 1929. Serial No. 391,204. 5 claims. (Cl. 47—38.)



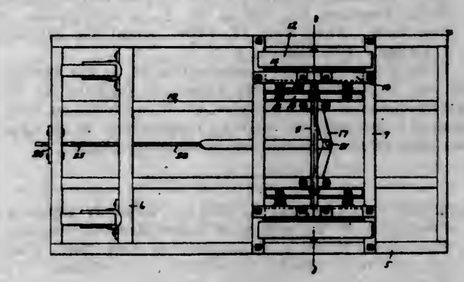
1. In a device of the character set forth, inner and outer receptacles, the inner receptacle being supported by a pillar within said outer receptacle so as to provide a reservoir space between said receptacles, and spacers between said receptacles dividing said reservoir, said inner receptacle being porous to permit the gradual passing of water therethrough.

1,785,431. THRESHOLD WEATHERSTRIP. WILLIAM B. BAILEY, Olympia, Wash. Filed July 31, 1929. Serial No. 382,412. 1 claim. (Cl. 20—68.)



The combination with a door having an elongated groove in its bottom edge, a pin extending transversely through said groove and positioned substantially midway between the hinged side of the door and the middle thereof, an elongated weatherstrip bodily movably mounted in said groove and free to move bodily downward by gravity and provided with an elongated slot extending vertically above the longitudinal axis of the strip, and adapted to receive said pin, whereby the strip is free to move vertically in said groove and adapt itself to the threshold of the door to form a tight joint therewith, and a cushion in the top of the groove at the hinge side of the door.

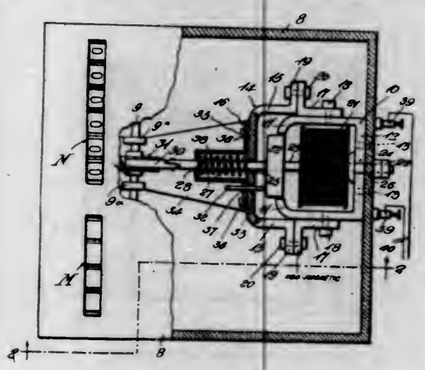
1,785,432. BRAKE MECHANISM. STANLEY BEATTY, Highland, N. Y. Filed Jan. 9, 1930. Serial No. 419,634. 5 Claims. (Cl. 188—21.)



1. In a truck structure of the class described, a frame, a pair of spaced cross members under the frame, a pair of longitudinally disposed blocks under the cross members, an axle mounted under the blocks transversely of the frame, wheels journaled on the axle, shoes slidably mounted on top of the blocks, bolts extending inwardly from the shoes, a pair of bars through which the bolts are slidable, springs on the bolts between the bars and

the shoes, and means for moving the bars laterally in respect to the frame for tensioning and untensioning the springs to apply or disengage the brake.

1,785,433. MINE-CAR DUMP-REGISTERING MEANS. JOSEPH J. BODY and REBECCA A. BODY, Dante, Va. Filed May 12, 1928. Serial No. 277,300. 3 Claims. (Cl. 175—344.)

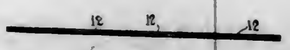


1. A mechanism of the class described comprising a U-shaped member of magnetic metal and means for magnetizing said member, a second U-shaped member having its arms secured to the arms of the first named member, the arm-connecting portion of said second U-shaped member being outwardly spaced from the ends of said arms of the first named member, the arm-connecting portions of the two members having alined rod-receiving openings, a rod passing through said openings and having an armature shiftable in one direction under the influence of said magnetizing means, spring means acting against said rod and reacting against one of said arm-connecting portions for returning the rod after each magnetically effected movement thereof, and a stop on the rod at the outer side of the other of said arm-connecting portions for limiting the movement of said rod under the influence of said spring means.

1,785,434. WATERPROOFING OF MATERIALS. WALTER A. BRIDGEMAN, Owego, N. Y., assignor to The Wilbur White Chemical Co., Owego, N. Y., a Corporation of New York. Filed Apr. 17, 1928. Serial No. 270,807. 3 Claims. (Cl. 134—11.)

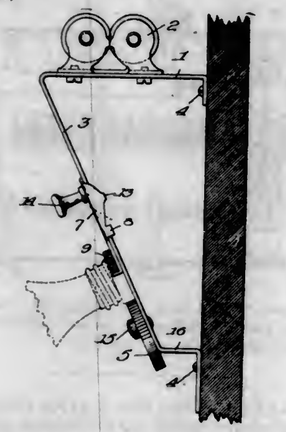
1. As a new product, a composition of matter suitable for use in conjunction with aluminum sulphate for the waterproofing of textile fabrics which comprises an emulsion of a fat, solid at ordinary temperature, in an aqueous soap solution containing an aromatic phenol.

1,785,435. PULVERIZING MILL. FRED J. BULLOCK, Shortsville, N. Y., asignor to Papec Machine Company, Shortsville, N. Y., a Corporation of New York. Filed Jan. 21, 1930. Serial No. 422,402. 11 Claims. (Cl. 83—11.)



1. In a pulverizing mill of the character described, hammers formed of laminated metal, the outer laminæ being relatively hard and the intermediate lamina or laminæ being relatively soft, said hammers being arranged to operate through travel in the plane of lamination.

1,785,436. CLOSURE-REMOVING DEVICE. GUSTAV A. CARLSON, Chicago, Ill., assignor to The Boye Needle Company, Chicago, Ill., a Corporation of Illinois. Filed July 21, 1928. Serial No. 294,498. 11 Claims. (Cl. 81—3.1.)



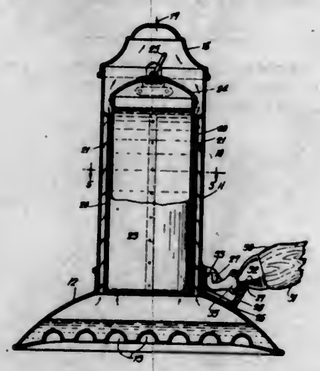
1. A utensil of the character set forth, comprising a bracket having a guide-member, means for securing said bracket to a stationary support, an eccentric device connected with said guide-member, and a sliding body mounted on said guide-member and opposed to said eccentric device.

1,785,437. PROCESS OF MAKING ABRASIVE DISKS. ALBERT J. DOERMANN, Chicago, Ill. Filed Aug. 12, 1927. Serial No. 212,550. 2 Claims. (Cl. 51—278.)



1. The process of making an abrasive disk comprising, mixing powdered abrasive and bakelite cement, placing the same in a mold with a layer of finely powdered abrasive on the bottom, and baking the same.

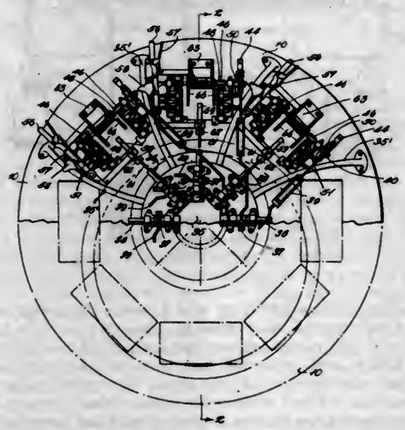
1,785,438. NURSING-BOTTLE HEATER. WALTER F. EDLIN, Union City, N. J. Filed Nov. 19, 1929. Serial No. 408,303. 1 Claim. (Cl. 53—1.)



A nursing bottle heater comprising a hollow dome like base, a cylindrical body rising centrally from said base,

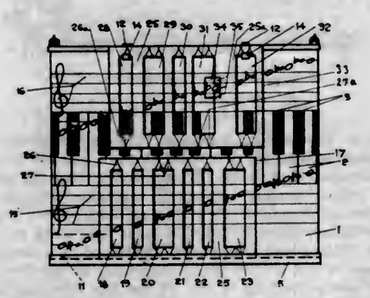
and being open at its top, a cover closing the open top of said body, spaced tubes rising upward from the bottom of said cylindrical body, and opening directly into the interior of said dome like base, said tubes extending inwardly from the side walls of the body for spacing a container adapted to be placed therein in spaced relation to the walls of said body, and said tubes having perforations therein, and means on said base for facilitating the filling of the same with water, substantially as and for the purpose specified.

1,785,439. SHINGLE AND VENEER CUTTING MACHINE. JAMES E. ECKENSLEY, Aberdeen, Wash., assignor of one-half to Alexander Polson, Hoquiam, Wash. Filed July 16, 1929. Serial No. 378,702. 6 Claims. (Cl. 143—8.)



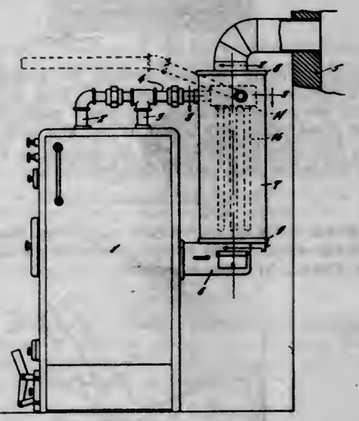
1. In a machine of the character described, the combination with the bed plate, and its base, of a vertical fixed shaft in said base, a gear wheel keyed to said shaft, a support frame journalled on said shaft, a stub shaft revolubly mounted in said frame, intermeshing gears keyed to the said shaft and stub shaft, a knife revolubly mounted on said frame, block feeding devices on said bed plate, means connecting the said stub shaft and feeding devices for operating said feeding devices in timed relation to the travel of the knife.

1,785,440. DEVICE TO BE USED IN TEACHING MUSIC. GUSTAF M. EKSTEDT, Gottenborg, Sweden. Filed Feb. 1, 1929, Serial No. 336,849, and in Sweden Oct. 31, 1928. 6 Claims. (Cl. 84—472.)



1. A music teaching device comprising a chart with music staffs and a screen movable along the staffs to designate any desired group of music symbols, said chart including two staffs parallel to each other, one staff showing the chromatic sharp scale, and the other staff showing the flat scale and a plan of a key board arranged between the two staffs, the two staffs and the key board plan being arranged on a line directly above each other with the individual note symbol in the sharp scale in the same relative position as the same individual note symbol in the flat scale, the line passing over the representation in the key board plan which corresponds to the individual note symbol, said screen including a plate with windows therein so arranged in relation to the width of the keys in the key board plan as well as to the distance between the key board and each of the staffs, that in any selected dispositon of the screen, each of its windows renders visible the required note symbol in the sharp scale or the flat scale, as the case may be, as well as the corresponding key in the key board plan whereby, in consideration of the configuration of the groups of notes for which the said screen is provided, either one single note symbol and the corresponding single key representation or two adjacent note symbols and the corresponding two adjacent key representations is visible in each individual window.

1,785,441. SUPERHEATER FOR BOILERS. ROBERT H. M. ERDMANN, Jamaica, N. Y. Filed Dec. 20, 1928. Serial No. 327,275. 1 Claim. (Cl. 122—460.)

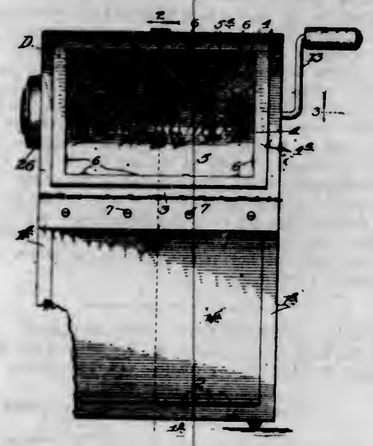


In a super heater for association with a smoke flue that leads from a boiler, a vertically disposed casing mounted exteriorly of the boiler forming a section of the smoke flue and having intake and outlet openings at its lower and upper ends, respectively, a manifold arranged within the casing and spaced from the inner walls thereof, a steam supply pipe extending from the boiler through one wall of the casing into the manifold, superheated steam outlet pipes extending from the manifold through opposite walls of the casing, said pipes constituting means for supporting the manifold in the casing in spaced relation to the walls thereof, and a series of spaced U-tubes communicating at their upper ends with the bottom of the manifold and having their lower ends disposed adjacent the intake opening in the casing and adapted to collect water globules from the steam in the manifold and vaporize said globules, the steom in the manifold being superheated by the products of combustion passing upwardly through the casing from the smoke flue.

1,785,442. EDUCATIONAL TOY AND DISPLAY DEVICE. CHARLES FISHER, New York, and CHARLES D. FISHER, Beacon, N. Y.; L. Stewart Gatter executor of said Charles Fisher, Deceased. Filed Sept. 12, 1925. Serial No. 55,960. 20 Claims. (Cl. 40—96.)

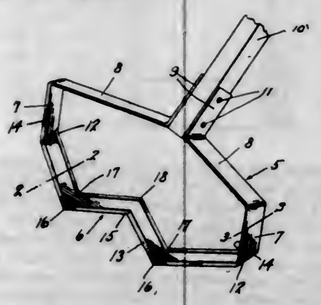
1. In a machine of the character set forth, the combination of a cabinet provided at its upper front portion

with a window, a film-guide in the upper portion of said cabinet and open to said window and projecting rearwardly therefrom and affording an upper film-confining wall, the space below said wall serving to receive the film folds, an endless film pasing between said film-guide and said window, and a friction-feed device back of said film-guide



serving to draw the film through the passage between said window and said film-guide and force it to form in folds below the film-guide, the lower walls of said cabinet co-operating with a wall of the film-guide to confine the film, whereby folds will be formed in the film as the film issues from said friction-feed device.

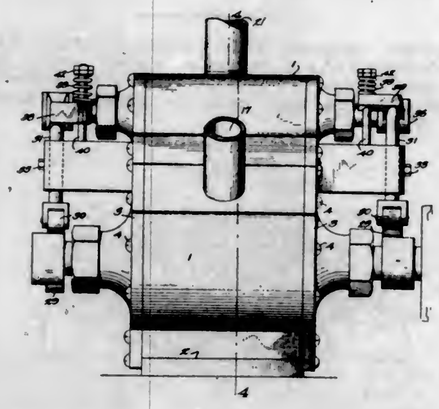
1,785,443. WEED CUTTER. ISAAC W. FISHER, Long Beach, Calif. Filed July 31, 1929. Serial No. 382,574. 1 Claim. (Cl. 30—9.)



In a hand tool of the class described, an oblique main blade having its opposite edges cut in a zig-zag fashion to provide on one of said edges a tooth arranged substantially in line with the transverse center line of said blade, and a pair of teeth at the other of said edges, one to each side of said transverse center line of the main blade, end blades extending upwardly at an angle to said main blade and obliquely with respect to said main blade, said end blades respectively being sharpened on one edge only, and said end blades adjacent their free ends terminating in inwardly directed end portions provided with means for securing therebetween one end of a handle.

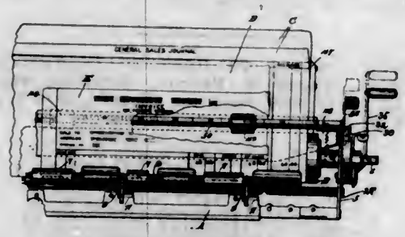
1,785,444. ROTARY PUMP OR ENGINE. ERNIE GROESBECK, Oshkosh, Wis. Filed May 26, 1925. Serial No. 33,029. 1 Claim. (Cl. 103—123.)

A device of he character described comprising a cylindrical casing, a partition arranged in said casing to divide it into two cylindrical sections, a solid cylindrical rotor mounted in each section of said casing, and having its periphery spaced from the walls of the casing, a main shaft extending through said casing and carrying said rotors, rigid radial abutments carried by and integral with said rotors at substantially 180° from each other, an outlet chamber communicating with each section of said casing, gates mounted in said outlet chambers, each gate being arranged to project into different sections of said casing



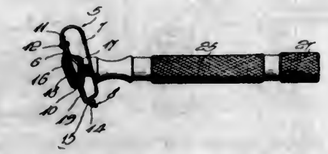
to engage the periphery of said rotors, said casing being provided with an inlet opening forwardly of said gates whereby fluid enters between the casing and the rotors on one side of said gates and flows into said outlet chamber on the opposite side of said gates, said gates being provided with pivoted arms, an auxiliary shaft arranged to operate said arms, cranks secured to said last named shaft, tappet means for actuating said cranks, and cams carried by the main shaft for actuating said tappet means.

1,785,445. TYPEWRITING MACHINE. GEORGE F. HANDLEY, Glendale, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 15, 1928. Serial No. 326,317. 1 Claim. (Cl. 197—127.)



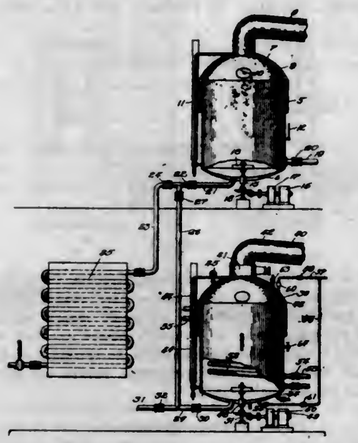
In a typewriting machine, the combination with a carriage, of a platen journaled thereon, releasable pressure rolls cooperating therewith, means for releasing said pressure rolls including a manually operable lever fulcrumed on the carriage, a line spacing mechanism for the platen including a manually operable lever fulcrumed on the carriage, both of said levers being fulcrumed on a common axis in rear of the platen axis, a pin fixed to the line spacing lever and projecting in rear of the roll releasing lever for engaging and actuating the latter upon movement of the line spacing lever, a guide pin fixed to the carriage and located eccentrically relative to the travel of the pin, a link pivoted at one end to the roll releasing lever and having a sliding pivotal connection at its other end with said guide pin, and a tooth projecting downwardly from the link and movable in an eccentric path relative to the pivot of the levers and adapted to be positioned in rear of the pin when the levers are in operative position, whereby when the line spacing lever is returned to its initial position the pin will engage the tooth and move the roll releasing lever towards its initial position.

1,785,446. SAFETY RAZOR. HUBERT C. HART, Unionville, Conn. Filed Mar. 28, 1930. Serial No. 439,699. 1 Claim. (Cl. 30—12.)



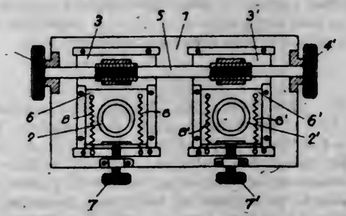
A safety razor comprising a spring metal blank bent into U-shape and having widened end portions forming a front plate and a rear plate, the free edge of said rear plate being bent into channel form and slotted transversely of the channel to provide a guard comb, a relatively stiff plate at the rear side of said front plate and having its outer edge disposed beyond the outer edge of said front plate but spaced inwardly from said comb, said outer edge of said stiff plate being provided at its ends with projecting rearwardly turned fingers adapted to lie upon the ends of said comb, means securing the inner edge portions of said front plate and said stiff plate together, whereby the former may act to clamp a blade against the latter, said front plate and said stiff plate being transversely bowed away from each other to hold the head of the blade, and a combined handle and adjuster for drawing said front and stiff plates toward said rear plate, said combined handle and adjuster having a portion abutting said rear plate, and a portion connected with said stiff plate, said rear plate having an opening through which the last-named portion passes.

1,785,447. ALDEHYDE-FREE ALCOHOLIC LIQUIDS. HERMAN HEUSER, Chicago, Ill. Filed June 28, 1926. Serial No. 119,057. 13 Claims. (Cl. 202—43.)



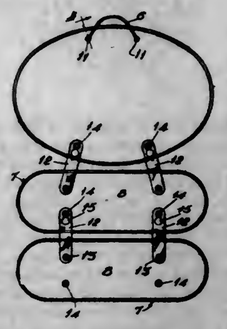
12. The method of producing an aldehyde-free liquid from an alcoholic liquid in which fusel oil or aldehydes are present which comprises charging a portion of such liquid into a closed chamber, heating it therein to evaporate and remove therefrom its entire aldehyde contents together with a portion of its alcoholic contents, similarly heating a second portion of said liquid in a second chamber, discharging the aldehyde-free residue from the second chamber while boiling into the first chafber to completely fill the latter, sealing the first chamber while its contents are at boiling temperature, subsequently cooling its contents, and permitting an oxygen-free gas to enter the space formed by contraction of the contents of the chamber.

1,785,448. STEREOSCOPIC MEASURING INSTRUMENT. REINHARD HUGERSHOFF, Dresden, Germany, assignor to "Ikarus" Internationale Patent-Verwertungs A. G., Vaduz im Furstentum, Liechtenstein, Germany. Filed June 1, 1927, Serial No. 195,821, and in Germany Oct. 5, 1926. 3 Claims. (Cl. 88—2.7.)



1. A double eyepiece assembly for stereoscopic measuring instruments, comprising the combination with an eyepiece support of a pair of eyepieces mounted on said support and adapted to be displaced horizontally thereon, at least one of said eyepieces being displaceable also upwardly and downwardly, means connected to said eyepieces for simultaneously adjusting the eyepieces towards and away from one another to suit the interocular distance of the observer and means connected to the upwardly and downwardly displaceable eyepiece for displacing said eyepiece upwardly and downwardly independently of the other eyepiece for adjusting the eyepieces to suit the difference in level of the eyes of the observer.

1,785,449. DISPLAY DEVICE. LOUIS E. KAHN, Chicago, Ill., assignor to Parisian Novelty Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 20, 1930. Serial No. 430,031. 2 Claims. (Cl. 40—128.)

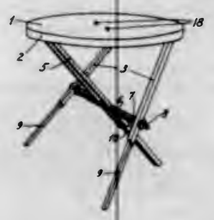


1. A display device comprising a plurality of separate plate-like members, and means dependingly supporting one of said members from the other thereof comprising strip-like members of transparent material.

1,785,450. FOLDING TABLE. JACQUES JEAN LAFFILLÉE, Paris, France. Filed Nov. 18, 1929, Serial No. 406,939, and in France Nov. 27, 1928. 6 Claims. (Cl. 45—11.)

1. A portable table of the type described, comprising a cup-shaped table top, a pair of legs pivoted to said table

top and adapted to be folded therein, a third leg opposite said first two legs pivoted to said table top and adapted

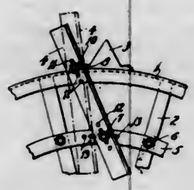


to be folded therein, a cross piece rigidly secured at the middle to said third leg and means for releasably securing said cross piece to said first two mentioned legs.

1,785,451. INSECTICIDE. JOSEPH H. LAMBERT, Chicago, Ill., assignor to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed Dec. 6, 1924. Serial No. 754,437. 2 Claims. (Cl. 167—43.)

1. A concentrated tree spray composition adapted to be mixed with large volumes of water and emulsified therein for application to fruit trees and the like, which composition comprises straw oil mixed with a small amount of an oil soluble sulfonic compound derived from the treatment of heavy hydrocarbon oils with concentrated sulfuric acid, small amounts of a water soluble emulsifying soap, and small amounts of an alcohol.

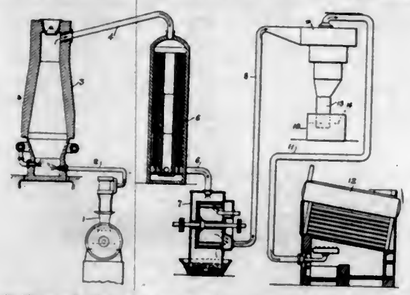
1,785,452. ATTACHMENT FOR TRACTION WHEELS. WALTER JONATHAN LEWIN, Mathoura, New South Wales, Australia. Filed June 8, 1928, Serial No. 283,926, and in Australia Mar. 1, 1928. 2 Claims. (Cl. 301—50.)



1. An attachment for a traction wheel consisting of a metal ring detachably secured to one side of the wheel, a series of gripping members arranged against the ring and the rim of the wheel and projecting beyond the rim of the wheel, means engaged in various positions of adjustment of the gripping members and detachably engaged with the remote side of the wheel for adjustably connecting each of the gripping members in position and at the same time permitting of a pivotal movement of each of said members, and means detachably engaged with the inner portions of the members and the ring for holding the members in various positions of adjustment.

1,785,453. DUST COLLECTION. CLARK T. MORSE and EDWARD L. HOGAN, Detroit, Mich., assignors, by mesne assignments, to American Blower Corporation, Detroit, Mich., a Corporation of Delaware. Filed Aug. 15, 1927. Serial No. 212,892. 6 Claims. (Cl. 183—22.)

1. In a method of dust collection, incorporating moisture with a dust laden gas stream, subjecting the stream to centrifugal action comprising moving the dust and moisture in a continuous path, extracting the clean gas therefrom by moving the dust laden gas in a horizontal path for approximately a revolution, conveying it to a next lower horizontal level, again moving it in a horizontal plane in a path of lesser diameter than that of the first, said path becoming increasingly closer to the center of



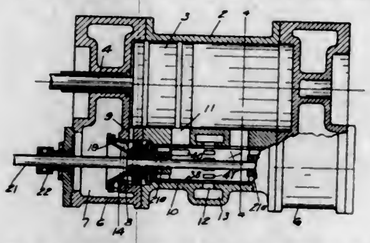
revolution of the stream and continuing this operation until said center of the stream is reached, and dropping the moisture laden dust by gravity downwardly through the center of the stream and discharging the dust free gas upwardly in a path which is the prolongation of the central portion of the stream.

1,785,454. RAILWAY-SWITCH STRUCTURE. HARRY L. MILLER, Chicago, Ill., assignor to Pettibone Mulliken Company, Chicago, Ill., a Corporation of Delaware. Filed May 15, 1930. Serial No. 452,673. 16 Claims. (Cl. 246—443.)



1. A switch structure comprising a base member, a pivoted switch tongue member, and ball and sectional socket means on said tongue member and base member for preventing upward displacement of said tongue member.

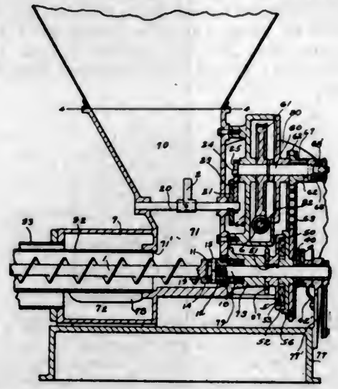
1,785,455. STEAM ENGINE. HERMAN G. MUELLER, Erie, Pa., assignor to Skinner Engine Company, Erie, Pa., a Corporation of Pennsylvania. Filed Sept. 7, 1923. Serial No. 661,341. 10 Claims. (Cl. 121—180.)



1. In a steam engine, the combination of a cylinder having steam ports at its ends; valve seats, said seats having cylindrical extensions through which said ports extend; packing rings on the extensions at each side of the ports; a rotatable shaft parallel to the axis of the cylinder and opposed tapered rotatable valves on the shaft operating on the said seats.

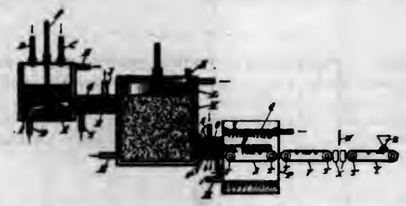
1,785,456. AUTOMATIC COAL BURNER. ADOLPH OUSDAHL, Seattle, Wash. Filed Feb. 10, 1925. Serial No. 8,294. 12 Claims. (Cl. 110—101.)

2. In coal-burning apparatus, in combination, a feed screw including a shaft, an extension operatively connected to said shaft, a two-part cam upon said extension of the feed screw shaft, one part being stationary, a sleeve mounted upon said extension and carrying the other part of said cam, means for adjusting said sleeve and the cam member carried thereby angularly relative



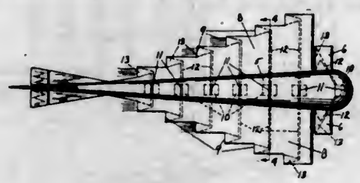
to the stationary cam member, a clutch upon said extension and comprising one member fixed thereto and a second member continuously rotatable thereabout, and means carried by said rotatable clutch member and engageable by said cam to determine the period of engagement of the clutch members.

1,785,457. APPARATUS FOR MOLDING BITUMINOUS MATERIALS. ANTHONY J. PFOHL, Lockland, Ohio. Filed June 25, 1925. Serial No. 39,619. 9 Claims. (Cl. 18—12.)



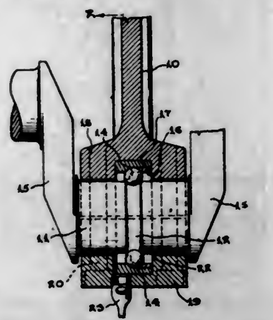
1. An extrusion mold consisting of a removable member formed of Babbitt metal, a support having an orifice, the removable member providing walls for an extrusion orifice, and means for heating said member.

1,785,458. PNEUMATIC AIRCRAFT-PROPELLING MEANS. OTTO KARL QUAST, Spokane, Wash. Filed Oct. 29, 1929. Serial No. 403,189. 3 Claims. (Cl. 244—18.)



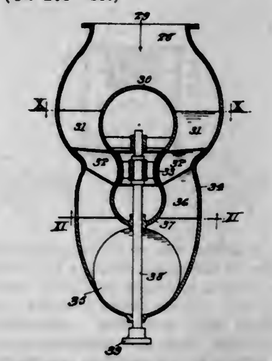
1. The combination of an air-craft having a round body tapering from a semi-globular head to a pointed tail, relatively small upper and lower gill wings adjacent said head, a relatively large wing extending a greater portion of the body, steps forming the outer edges of said wing, a plurality of rotary propelling mechanisms mounted within the body, vacuum means for forcibly drawing air from above into said mechanisms, discharge means for forcibly expelling the air rearwardly through the steps of the large wing, and intake and discharge means for the propelling mechanisms of the gill wings.

1,785,459. CONNECTING-ROD BEARING. SILAS G. REINHARD, Toledo, Iowa. Filed Mar. 8, 1928. Serial No. 260,024. 1 Claim. (Cl. 308—179.)



In combination with a crank shaft and connecting rod, a ball bearing having balls running in a groove formed directly upon the crank pin of the crank shaft and a race ring in surrounding relation to said balls, the connecting rod having a head portion in surrounding relation to said race ring, the head portion of the connecting rod being provided with a removable cap, the ball bearing being provided with a retainer enclosed by said race ring and said retainer and race ring having interior diameters sufficient to permit the two being slipped around the crank on to the crank pin in the mounting of the ball bearing.

1,785,460. PUMP OR THE LIKE. GEORG ARTHUR SCHLOTTER, Dresden, Germany, assignor of ten per cent to Robert Suczek, New York, N. Y. Filed Feb. 27, 1926, Serial No. 91,112, and in Germany Mar. 2, 1925. 24 Claims. (Cl. 103—89.)



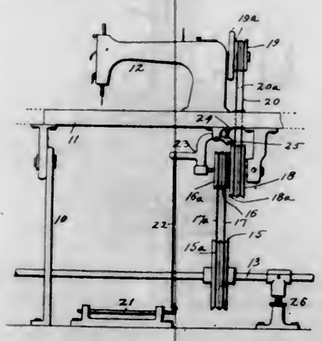
1. A turbine syatem comprising, a casing provided with an inlet and an outlet, a running wheel interposed in said casing between said inlet and outlet, said wheel having blades, blades located in the casing adjacent said running wheel, all of said blades formed by portions of curved surfaces, whereby the curved surfaces are portions of surfaces of bodies generated by rotation of a conical section line as of a sphere, ellipsoid, paraboloid or hyperboloid.

1,785,461. ART AND PROCESS OF PRESERVING EGGS. DELASKA E. SEAWARD, Oklahoma City, Okla. Filed May 31, 1928. Serial No. 282,048. 4 Claims. (Cl. 99—8.)

1. The art and process of preserving eggs in good condition consisting in subjecting suitable wrapping material

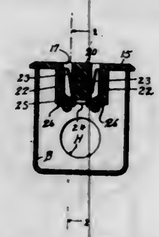
to a solution of silver nitrate and water, then permitting it to dry, then wrapping a suitably sized portion of same around the egg, then twisting the corners together thereby shutting out the light, air, germs and bacilli.

1,785,462. OPERATING MECHANISM FOR SEWING MACHINES. SAMUEL P. STEIN, Williamsport, Pa. Filed Mar. 15, 1917, Serial No. 155,007. Renewed July 1, 1924. 5 Claims. (Cl. 74—21.)



1. As an improvement in power mechanism for sewing machines, the combination of a driving shaft, a plurality of pulleys thereon, a plurality of pulleys through which power is transmitted to the same sewing machine, and belts connecting the driving and driven pulleys in pairs each belt alone being able to transmit the required driving power.

1,785,463. DUPLEX RECEPTACLE. HERMAN L. STRONGSON, New York, N. Y. Filed Oct. 19, 1925. Serial No. 63,235. 15 Claims. (Cl. 173—330.)

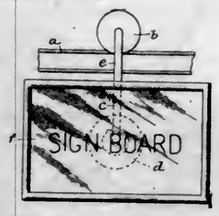


1. A wall outlet of the multiple receptacle type comprising, a plate of insulation forming an outlet box cover and provided with a plurality of plug-in receptacle slots made therethrough, contact blades disposed and held within the receptacle slots, a housing of insulation material on the back of the plate and surrounding each contact blade, and a circuit bar disposed to the rear of the housing and connected with the contact blades.

1,785,464. PROCESS OF PREPARING PURE ALUMINA. TSUNEO SUZUKI and HIROSHI TANAKA, Tokyo, and TORAO KURITA, Tokyo Prefecture, Japan, assignors to Zaidan Hojin Rikagaku Kenkyujo, Tokyo, Japan. Filed July 6, 1927, Serial No. 203,869, and in Japan Feb. 3, 1927. 2 Claims. (Cl. 23—142.)

1. The process of purifying impure alumina containing silicon, iron, ferro-silicon and oxides of iron as impurities which comprises heating the impure alumina with a carbonaceous reducing agent to reduce the major portion of any iron oxide contained therein and thereafter subjecting the alumina to the action of chlorine gas and carbon monoxide at an elevated temperature until the iron and silicon constituents have been removed as their volatile chlorides.

1,785,465. MOVING LAMP FOR SIGNS AND ADVERTISEMENTS. KARL FREIHERR ROEDER VON DIERSBURG, Graefelfing, near Munich, Germany. Filed July 17, 1928, Serial No. 293,413, and in Germany Jan. 15, 1928. 2 Claims. (Cl. 40—130.)



1. In an advertising or signal device, a track, a bracket having an axle portion, a roller carried by the axle portion and mounted to travel on the track, a lamp carried by the bracket and arranged at one side of the vertical plane of the roller, an arm depending from the axle portion, and a counter-balance for the lamp carried by said arm and arranged therewith on the opposite side of the vertical plane of the bracket.

1,785,466. PROCESS FOR THE MANUFACTURE OF MIXED ESTERS OF CELLULOSE. CHARLES S. WEBBER and CYRIL J. STAUD, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 2, 1929. Serial No. 383,148. 27 Claims. (Cl. 260—101.)

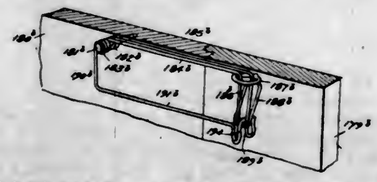
22. Cellulose-acetate-toluate.

1,785,467. PLEASURE SLED OR SLEIGH. FRANZ WELS, Schloss Harta, near Hohenelbe, Czechoslovakia, assignor of one-half to Christian Krönig, Schloss Harta, near Hohenelbe, Czechoslovakia. Filed Dec. 3, 1929, Serial No. 411,359, and in Austria Nov. 29, 1928. 6 Claims. (Cl. 208—157.)



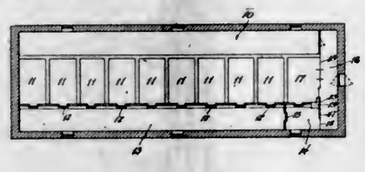
1. In a pleasure sled the provision of a rocking lever pivoted to the sled, a resiliently movable driving member rotatably attached to the free end of said lever, and means connected with said lever for rocking the same and operating said driving member.

1,785,468. LATCH. ARCHELOUS B. YANCEY, Pasadena, Calif. Filed Oct. 31, 1927. Serial No. 229,934. 8 Claims. (Cl. 292—87.)



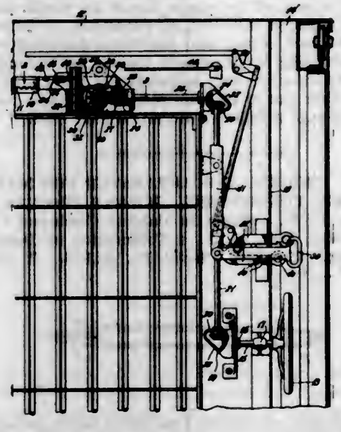
1. A latch made from a single piece of resilient material formed into an inner bearing coil and an outer bearing coil, a pivot element on which the coils are mounted, the coils being prolonged at their inner ends to form approximately parallel strips which constitute the body of the latch, the strips being extended to fashion a loop-shaped member disposed at an angle to the body, a keeper through which the loop-shaped member passes, the outer end of the outer bearing coil being extended to form an arm comprising an inner terminal part and an outer terminal part disposed at an angle to each other, the outer terminal part being engaged with said loop-shaped member.

1,785,469. JAIL. DAVID FRANKLIN YOUNGBLOOD, San Antonio, Tex. Filed June 25, 1929. Serial No. 373,532. 10 Claims. (Cl. 189—7.)



1. In a cell room having a row of cells and cell doors arranged to be operated by a master locking and operating system, a partition at one end of the row of cells providing a corridor; a master control box providing a housing for said operating mechanism set inside of the partition in substantial alinement with the cell doors; and a sliding door for the control box substantially flush with the partition.

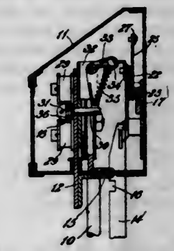
1,785,470. MASTER OPERATING MECHANISM FOR CELL DOORS AND LOCKS. DAVID FRANKLIN YOUNGBLOOD, San Antonio, Tex. Filed Aug. 15, 1929. Serial No. 386,035. 31 Claims. (Cl. 189—7.)



1. In a master operating system for cell doors and locks having locking mechanism and door propelling mechanism, a single actuating element; and means to connect said element so that it will actuate either the locking mechanism or the door propelling mechanism.

1,785,471. MASTER-CONTROL SYSTEM FOR CELL DOORS AND LOCKS. DAVID FRANKLIN YOUNGBLOOD, San Antonio, Tex. Filed Aug. 15, 1929. Serial No. 386,036. 20 Claims. (Cl. 189—7.)

1. In combination with a master operating system for cell doors and locks, selector mechanism for each door including movable latch means to effect a mechanical connection to the lock; and means connected to the movable latch means automatically to connect the door to its propelling mechanism so that it can be opened when it is unlocked, said door-connecting means being connected to the lock-actuating mechanism so that it is operated simultaneously therewith.



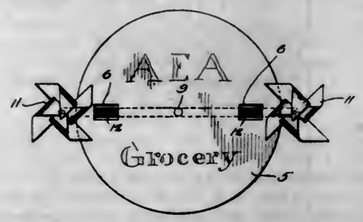
1,785,472. SEED FUNGICIDE AND DISINFECTANT. HOWARD ADLER and GUY A. MCDONALD, Chicago Heights, Ill., assignors to Victor Chemical Works, Chicago, Ill., a Corporation of Illinois. Filed Dec. 10, 1927. Serial No. 239,262. 4 Claims. (Cl. 167—16.)

2. A fungicide and seed disinfectant comprising particles of simultaneously formed copper oxalate and calcium sulfate.

1,785,473. GRANULAR CALCIUM PHOSPHATE. HOWARD ADLER and GUY A. MCDONALD, Chicago Heights, Ill., assignors to Victor Chemical Works, a Corporation of Illinois. Filed Jan. 7, 1929. Serial No. 330,961. 5 Claims. (Cl. 23—109.)

1. A mechanically resistant mono-calcium phosphate containing less than 0.5% iron phosphate, and from 0.6 to 2% MgO.

1,785,474. ADVERTISING DEVICE. JOHN W. ALLEN, Fresno, Calif. Filed May 20, 1930. Serial No. 454,041. 2 Claims. (Cl. 40—39.)

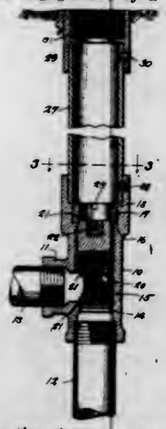


1. An advertising device comprising a disk-like body portion having openings extended therethrough, a bar mounted for rotary movement at the rear of the body portion and having colored portions to be viewed through the openings, rotary members operated by wind pressure, supported adjacent to the front surface of the body portion, a support for the body portion, and the front surface of the body portion adapted to receive printed matter.

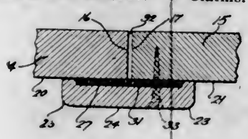
1,785,475. SHUT-OFF VALVE. CHARLES H. BLIVEN, Norfolk, Va. Filed Apr. 12, 1928. Serial No. 269,381. 1 Claim. (Cl. 251—35.)

A stop valve comprising a T coupling having a vertically disposed run and a lateral outlet arm intermediate its ends, the lower end of the vertical run being adapted to be connected with a supply pipe, an upwardly facing valve seat in said run below the outlet arm, an upper por-

tion of the vertical run being of increased internal diameter to form a socket, the walls of the run being threaded in one direction between the valve seat and lower end of the socket and the walls of the socket being threaded in an opposite direction, an externally threaded ring screwed tightly into said socket and having its lower end shaped to define a valve seat exposed through the bottom of the socket, the upper portion of the ring being adapted for engagement by a wrench when inserting and removing the ring, and a threaded valve plug screwed into said run between the lower valve seat and socket, said plug being of less length than the distance between the outlet arm and socket but of greater depth than the diameter of the outlet arm and having its upper and lower ends formed with surfaces conforming to the valve seats of the run and ring and adapted to seat firmly against the seats to form tight closures, the upper end of the plug being adapted for engagement by an operating element passed downwardly through said ring.

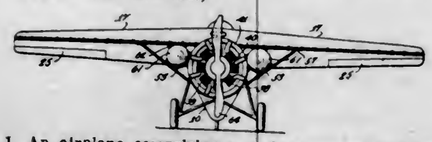


1,785,476. WEATHER STRIP. MAURICE E. BOSLEY, Chicago, Ill., assignor to The D. W. Bosley Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 25, 1928. Serial No. 314,917. 4 Claims. (Cl. 20—69.)



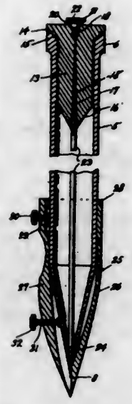
1. The combination with a pair of double doors having adjacent free edges, of a weatherstripping therefor, including, a door batten strip applied to one of the doors and having a recess let into its inner surface facing said doors, and an insulating packing retained in the recess of said strip and extending across the gap between said doors and in engagement with the door surfaces adjacent said free edges.

1,785,477. AIRPLANE. THOMAS F. COONEY, Las Cruces, N. Mex. Filed Sept. 5, 1928. Serial No. 304,062. 11 Claims. (Cl. 244—31.)



1. An airplane comprising a main structure including a fuselage and supporting wings, a portion of said structure being provided with a chamber for receiving exhaust gases from the motor of the airplane, a conduit for conducting exhaust gases from the motor to said chamber, and an outwardly opening check valve associated with said chamber and operable to open under the influence of the pressure of exhaust gases in the chamber.

1,785,478. DRAFTSMAN'S FOUNTAIN AND LETTERING PEN. EDWARD L. DELANEY, Elyria, Ohio, assignor to Irene A. Delaney, Elyria, Ohio. Filed July 29, 1929. Serial No. 381,837. 1 Claim. (Cl. 120—43.)



A fountain drawing pen comprising a barrel tapered at one end, said tapered end of the barrel being provided with a duct opening through one side thereof adjacent its extremity, a pen structure against which the tapered end of the barrel is adapted to engage, means for regulating the flow of ink through said duct, an adjustable air admitting plug for the said barrel, said plug being provided with a channel extending longitudinally therein and terminating inwardly of its outer end, and a needle valve projecting from the inner end of the said plug and adapted to have its free end seat within the aforementioned duct.

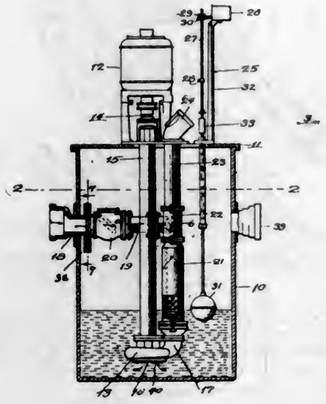
1,785,479. PROCESS AND APPARATUS FOR MAKING ELECTRIC CONDENSERS. WILLIAM DUBILIER, New Rochelle, N. Y., assignor to Dubilier Condenser Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 15, 1926. Serial No. 81,527. 7 Claims. (Cl. 175—41.)



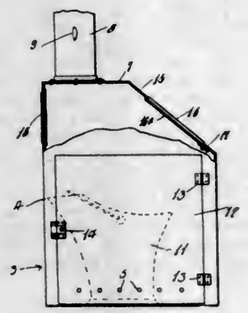
1. The process of making condensers which consists in enveloping sections in a wrapping, piling said sections one upon another, and then treating said sections simultaneously.

1,785,480. PUMPING APPARATUS FOR SEWAGE AND OTHER LIQUIDS. AUGUSTUS C. DURDIN, Jr., Chicago, Ill. Filed Apr. 27, 1927. Serial No. 187,007. 8 Claims. (Cl. 103—1.)

1. Pumping apparatus comprising in combination a liquid receiving receptacle, an inlet conduit entering said receptacle and adapted to be connected with a source of liquid supply, a centrifugal pump contained in said receptacle and having an inlet side and a discharge side within said receptacle, the inlet side opening directly into said receptacle, an upright discharge pipe leading away from the discharge side of the pump and connected to said inlet conduit, and a screen within said pipe and located between the discharge side of the pump and the connection between the inlet conduit and discharge pipe.



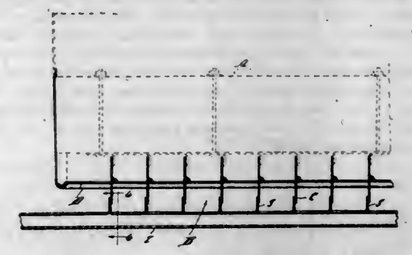
1,785,481. ASH-DUST ELIMINATOR. FRANCIS R. DYKE, Dartmouth, Nova Scotia, Canada. Filed Apr. 21, 1927 Serial No. 185,534. 1 Claim. (Cl. 126—242.)



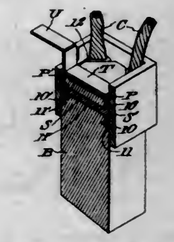
An ash dust eliminator comprising a casing adapted to receive a receptacle and provided adjacent its bottom with air inlet openings, an inwardly movable door in a wall of the casing, said door inclining upwardly and rearwardly, hinge means adjacent the lower edge of the door securing it to the casing, and spring means normally holding the door in closed position and urging it thereto, said door being of a size and so arranged that a shovel may be placed against the same in emptying ashes into the receptacle to control its opening and closing movement.

1,785,482. AUTOMOBILE RADIATOR SHUTTER. JOSEPH GUY GIAMPAOLI, Elkridge, Md. Filed Oct. 27, 1928. Serial No. 315,538. 2 Claims. (Cl. 280—152.)

2. An anti-vibrating device for automobile radiator shutters comprising, in combination, a horizontally disposed brace bar for the headlights of the automobile, said bar being provided with a plurality of obliquely disposed spring fingers adapted to be tensioned by disposing the usual panels of the shutter in open position and against the said fingers.

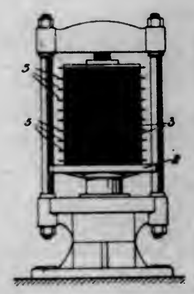


1,785,483. CURRENT-COLLECTING BRUSH. CHARLES HANSEN and HORACE S. ELLSON, Lakewood, Ohio, assignors to National Carbon Company, Inc., a Corporation of New York. Filed July 22, 1924. Serial No. 727,519. 7 Claims. (Cl. 171—326.)



1. A current-collecting brush comprising a block containing carbon or graphite and having part of one of its longitudinal corners removed at the outer end of the block, a flexible conductor, a plate bearing against said block and having one end thereof bent upon itself to clamp an end of said conductor, said bent end and conductor end therein being disposed in the space corresponding to said removed part of said block and extending substantially parallel to the main axis of the brush and transversely of the length of said plate, and means securing said plate to said block.

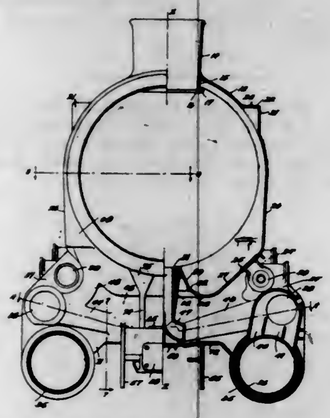
1,785,484. PROCESS OF AND APPARATUS FOR TREATING PAPERBOARD AND THE LIKE. RICHARD KASTNER, Steyrermuhl, and HERBERT SCHMOLKA, Vienna, Austria. Filed Jan. 21, 1928, Serial No. 248,450, and in Austria Jan. 29, 1927. 2 Claims. (Cl. 34—24.)



1. A process for removing water from wet sheets of pasteboard and the like, which consists in forming a pile

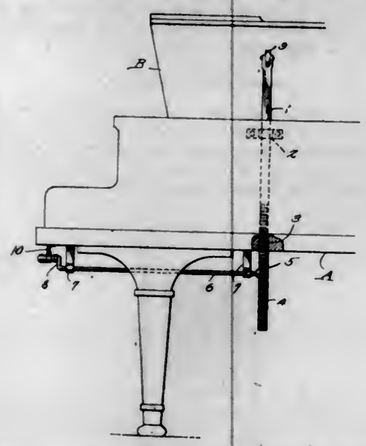
of the sheets, subjecting the pile of sheets to mechanical pressure at ordinary temperature so as to remove a portion of the water therefrom, passing electric alternating current through the sheets while the pile is subjected to pressure so as to supply heat to the pile so as to reduce the viscosity of the water remaining therein, allowing a further quantity of water to flow off from the pile of sheets without increasing the pressure, increasing the supply of heat to the pile so as to raise the temperature of the sheets and then reducing the pressure, as and for the purposes set forth.

1,785,485. LOCOMOTIVE. WILLIAM F. KIESSEL, Jr., Altoona, Pa. Filed Aug. 26, 1927. Serial No. 215,726. 19 Claims. (Cl. 105—44.)



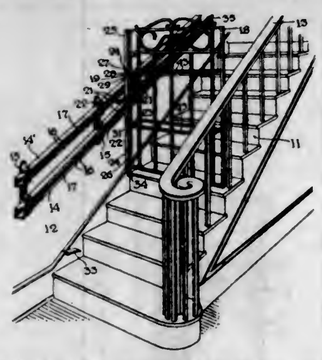
1. In a locomotive, in combination, a smoke-box of non-circular transverse section, and a cylinder saddle, the lower wall of said smoke-box forming a portion of said saddle.

1,785,486. PIANO-LID ADJUSTER. EDMUND B. KURSHEEDT, Daytona Beach, Fla. Filed Oct. 5, 1928. Serial No. 310,643. 3 Claims. (Cl. 84—177.)



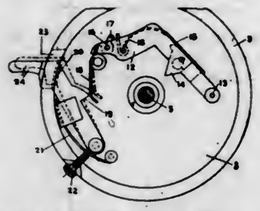
1. The combination with a piano having a hinged lid, of a lifting member supported by the piano, and means actuated from a point outside of the piano for sliding said member upwardly and downwardly to raise or lower the lid.

1,785,487. STAIRWAY GUARD. DANIEL EDWARD MCAVOY, Long Island City, N. Y. Filed Jan. 24, 1930. Serial No. 423,144. 10 Claims. (Cl. 189—43.)



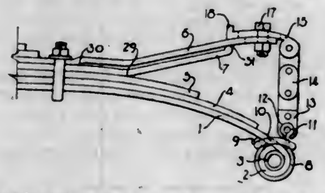
1. A guard for stairs, comprising a gate, guide means disposed in parallel relation to said stairs, and means engaging said guide means for supporting said gate, said supporting means being slidable longitudinally of the stairs along the guide means.

1,785,488. CASTING REEL FOR FISHING RODS. ANDREW MCDOUGALL, Parel, Bombay, India. Filed May 27, 1927, Serial No. 194,811, and in India July 9, 1926. 3 Claims. (Cl. 242—84.5.)



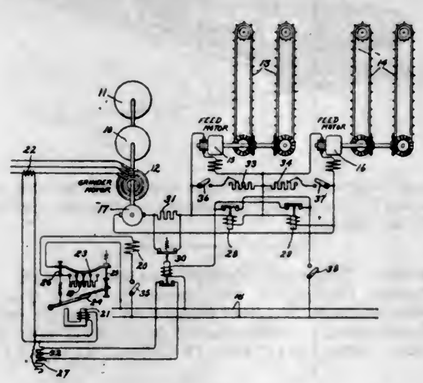
1. A casting reel comprising a plate, a drum rotatably mounted on said plate, a braking member pivoted on said plate, a pawl arm pivoted to said plate, a ratchet on said drum adapted to cooperate with said pawl, spring means secured to said plate and cooperating with said braking member to move said member into engagement with said drum, yieldable means secured to said pawl arm and adapted to move said member out of engagement with said drum against the action of said spring means, and means for locking said pawl arm and yieldable means in engagement with said ratchet and said braking member respectively.

1,785,489. SPRING. RUPERT E. MCGEE, Tampa, Fla., assignor of one-half to D. E. Walters. Filed Aug. 27, 1928. Serial No. 302,249. 6 Claims. (Cl. 267—48.)



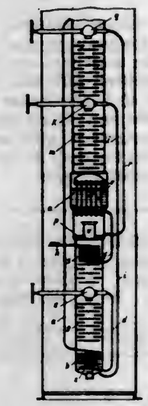
1. A laminated spring consisting of a main leaf and a plurality of shorter leaves, and a snubbing leaf having its end spaced from the end of the main leaf and connected therewith under tension by means including a flexible element having a terminal member adjustable longitudinally of the snubbing leaf.

1,785,490. DRIVE FOR WOOD-PULP GRINDERS AND THE LIKE. WILBUR L. MERRILL, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 10, 1925. Serial No. 8,289. 9 Claims. (Cl. 83—75.)



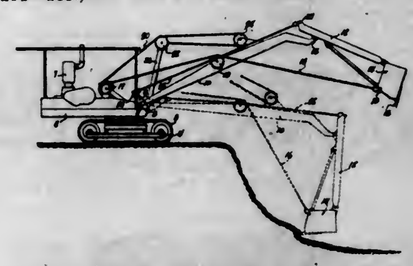
1. A wood pulp grinder drive comprising a grinder motor for driving a plurality of grinder stones, a separate feed motor for feeding the wood to each grinder stone, a generator for supplying power to said feed motors, the said feed motors being connected in series relation to automatically maintain a predetermined relation between the loads imposed on said grinder motor by said feed motors, and means responsive to the load on said grinder motor for automatically regulating the voltage of said generator to maintain substantially constant the load of said grinder motor.

1,785,491. METHOD FOR THE COMPLETE SEPARATION OF LIQUID AIR INTO OXYGEN AND NITROGEN. ADOLF MESSER, Frankfort-on-the-Main, Germany. Filed Feb. 18, 1927, Serial No. 169,400, and in Germany Feb. 18, 1926. 3 Claims. (Cl. 183—115.)



3. The process of separating liquid air into oxygen and nitrogen, which includes maintaining two rectification columns under different pressures, delivering to the higher pressure column at a point intermediate the ends of the latter the liquid condensed at still higher pressure by the liquid collecting in the bottom of said column, completely liquefying the vapors in the higher pressure column above the point of admission of said liquid, and in two successive stages, returning the liquid formed in the first stage to said column, delivering to the lower pressure column the liquid formed in the said second stage and the liquid collecting in the bottom of the higher pressure column, effecting the said liquefaction in the said two stages by the liquid collecting in the bottom of the lower pressure column, and withdrawing as entirely separate gases the separate vapors produced from the liquids used in cooling said first and second stages.

1,785,492. BACK DIGGER. ARTHUR ORLOFF, Green Bay, Wis., assignor to Northwest Engineering Corporation, Green Bay, Wis., a Corporation of Wisconsin. Filed Apr. 22, 1929. Serial No. 357,067. 9 Claims. (Cl. 214—138.)

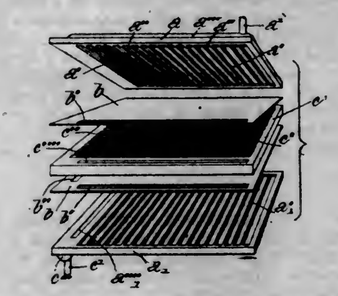


1. In an excavating machine, the combination of a base, a movable boom support mounted on said base, a boom pivotally mounted on said support for up and down movements and so that its pivot moves relative to the base of the machine during the digging cycle, a dipper handle pivotally mounted on the outer end portion of said boom and carrying a dipper working toward the machine during digging, a hoisting cable associated with the boom, and means associated with said support and moved thereby under the forces exerted thereon by the boom for effecting shifting movements of the dipper and dipper handle relative to the boom.

1,785,493. METHOD OF MAKING PLATED SHOT. EDWIN PUGSLEY, New Haven, Conn., assignor, by mesne assignments, to Winchester Repeating Arms Company, a Corporation of Delaware. Filed Jan. 9, 1929. Serial No. 331,395. 3 Claims. (Cl. 91—68.2.)

1. The process of making plated lead shot which comprises dropping globules of molten lead into a solution of a metallic salt containing a metal adapted to replace the metal of the salt when lead is dipped in the solution whereby the globules are formed into shot and plated with the metal of the salt.

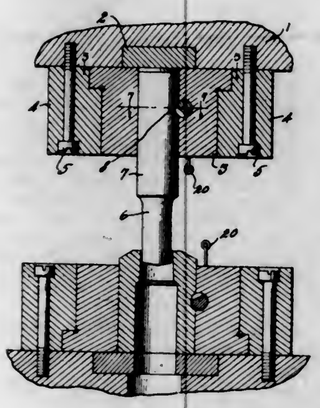
1,785,494. FILTER PRESS. LOUIS REVEL, Le Vigan, France. Filed June 6, 1928, Serial No. 283,155, and in France June 14, 1927. 2 Claims. (Cl. 210—188.)



1. In a filter press assembly, a first feed plate having a plurality of depressions formed therein, conduit means

communicating with said depressions, a discharge plate having a slot formed therethrough and positioned so that when said feed and discharge plates are in operative position, said slot crosses a plurality of said depressions, said discharge plate also having a plurality of grooves formed therein which are substantially co-directional with said slot, said grooves being separated from and independent of said slot, a discharge conduit system communicating with said grooves, and a second feed plate having a plurality of depressions formed therein positioned so that, in operating position, said slot crosses the direction of, and communicates with the depressions of said second feed plate, said second feed-plate having a slot formed therein separate from and independent of the depressions formed therein, said last named slot being positioned to communicate with, and form part of, the discharge conduit system.

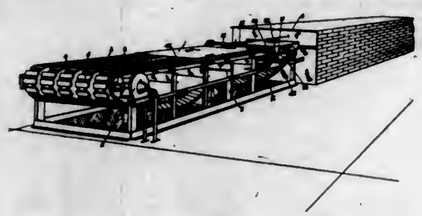
1,785,495. PUNCH AND DIE RETAINER. CLEMENT C. RICHARD, Detroit, Mich., assignor to Allied Products Corporation, Detroit, Mich., a Corporation of Illinois. Filed Oct. 22, 1927. Serial No. 228,095. 3 Claims. (Cl. 279—97.)



1. In a retainer for punches, dies and similar tools, a member having an aperture for a tool shank or body, a lock member having a seat in the said first named member and having a part movable into the aperture for the shank, said tool shank having an arcuate notch formed therein on one side, the radius of which is greater than the radius of the part of the lock member turning thereinto and the axis of which is eccentric to the axis about which the lock member turns whereby by a mere turning of the lock member on its axis it may assume a wedging relation relative to the notch to prevent longitudinal movement of the tool in its aperture, and a spring tending to turn the lock member on its axis to locking engagement with the notch of the shank, the said first member, lock member, and notch of the tool being so complementally formed and arranged as to hold the tool shank from rotative movement in its aperture in said first member.

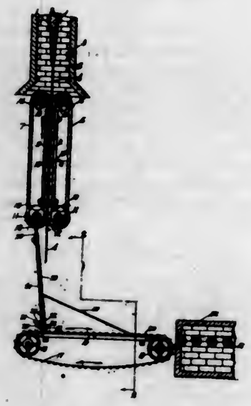
1,785,496. APPARATUS FOR CUTTING SHEET GLASS. CLIFFORD A. ROWLEY, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed May 19, 1924. Serial No. 714,416. 17 Claims. (Cl. 33—32.)

1. An apparatus for transversely scoring a moving sheet of glass, comprising a carriage movable parallel with the movement of the sheet and including a guide-bar for a scoring tool extending transversely of the sheet, and



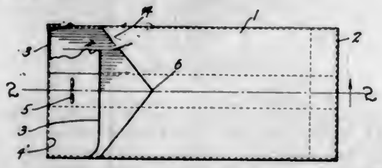
means connected to the carriage and engageable with the free end of the advancing sheet for moving the carriage with the sheet.

1,785,497. DRAWING SHEET GLASS. CLIFFORD A. ROWLEY, Chicago, Ill., and JOSEPH A. REECE, Toledo, Ohio, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 23, 1926. Serial No. 137,360. 13 Claims. (Cl. 49—3.)



1. In a sheet glass making apparatus, means for flowing glass continuously downward in sheet form, means for successively severing the sheet into sections, and for suspending the severed sections until set, a horizontal conveyor having a series of cleats, means for guiding the lower edge of each sheet as it is released from the suspending means into engagement with one of the cleats, and means for supporting the sheet at its upper edge until the sheet is laid upon the conveyor.

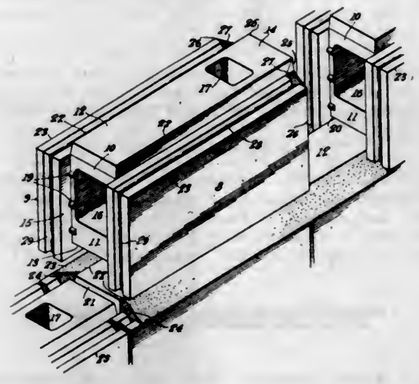
1,785,498. BAG CLOSURE AND SUPPORT. FRED L. SAVAGEAU, Denver, Colo., assignor to Independence Coffee and Spice Company, a Corporation of Colorado. Filed Dec. 24, 1928. Serial No. 328,281. 4 Claims. (Cl. 229—76.)



1. A bag for merchandise having one open end, a keeper having a supporting end and opposite thereto a sealing edge extending the full width of the bag and about which both sides of the said open end of the bag

are adapted to be tightly folded forming a double thickness flap on the side of the keeper opposite the bag and extending along the keeper for a portion only of its length, and means passing through the bag and the flap and through the keeper spaced from the extremity of its supporting end and adapted to maintain their respective relations.

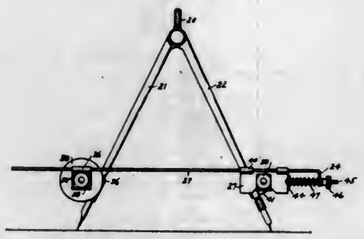
1,785,499. BUILDING BLOCK. FRED SAYERS, Yonkers, N. Y. Filed Apr. 7, 1928. Serial No. 268,105. 6 Claims. (Cl. 72—41.)



1. A building block having tongue and groove elements for interlocking in a wall construction, and gauge elements for spacing the interlocked blocks in predetermined relation in the wall, said block having further mortar gauges for measuring predetermined quantities of mortar requisite for the spacing predetermined by said gauges.

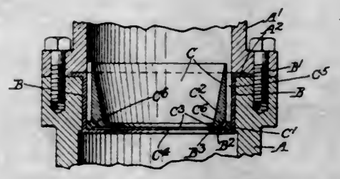
6. A hollow building block having a longitudinal passage extending completely therethrough and having intermediate the ends of said block an annular rib extending inwardly into said longitudinal passage and forming an annular reinforcement about said passage for strengthening the intermediate hollow portion of the block between the ends of the same.

1,785,500. MICROMETRIC DRAWING INSTRUMENT. FRANK SCHWARTZ, New York, N. Y. Filed Feb. 11, 1927. Serial No. 167,383. 5 Claims. (Cl. 33—154.)



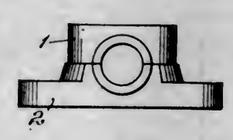
1. A device of the character described comprising a beam, an element slidably mounted thereon and provided with means for engaging a leg of a drawing instrument, said means being independent of said leg and adapted to engage the latter at any point thereof, and micrometric means operatively interposed between the beam and said element for minutely adjusting the element and leg longitudinally along the beam.

1,785,501. METHOD OF AND APPARATUS FOR REATOMIZING FUEL. JOHN A. SECOR, La Porte, Ind., assignor to Advance-Rumely Company, La Porte, Ind., a Corporation of Indiana. Filed Feb. 17, 1928. Serial No. 255,165. 12 Claims. (Cl. 48—180.)



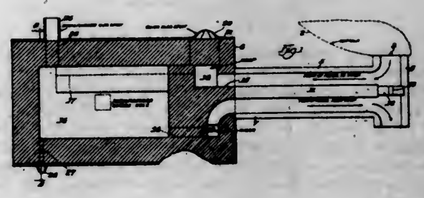
6. A reatomizer including an outer member having an inwardly extending flange, an inner member positioned within the first and provided with an outwardly and downwardly extending flange which contacts the outer member and holds the inner member away from contact with the first and provided with an inwardly extending flange, the inner member provided with a perforation communicating with its exterior and with the space between the flanges of the two members.

1,785,502. METAL BEARING MEMBER AND PROCESS OF TREATING SAME. CHARLES H. SEYMOUR, Kansas City, Mo. Filed Aug. 26, 1927. Serial No. 215,625. 16 Claims. (Cl. 148—11.5.)



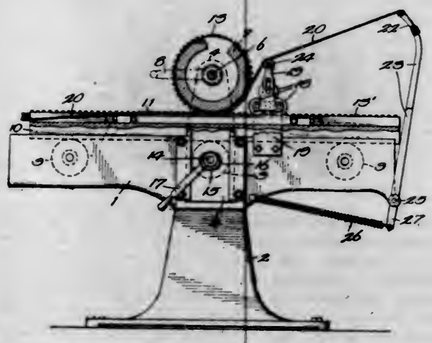
1. The process consisting in cooling in contact with an oleoresinous material a bearing member of the kind described comprising soft non-hardening metal heated to a temperature between the boiling point of said material and the fusing point of the metal.

1,785,503. APPARATUS FOR DESULPHURIZING CAST IRON. LAVERNE W. SPRING, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a Corporation of Illinois. Original application filed June 16, 1928, Serial No. 285,898. Divided and this application filed June 22, 1929. Serial No. 372,914. 2 Claims. (Cl. 266—40.)



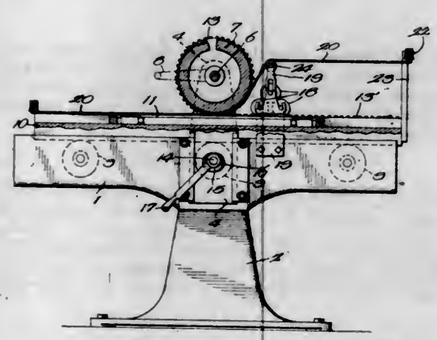
1. In combination with a cupola having a metal discharge opening, a treating receptacle disposed adjacent to said opening and substantially tangentially of said cupola at said opening, a trough leading from said opening substantially radially of said cupola and inclined downwardly and outwardly, a second gravity trough leading from the first said trough adjacent said cupola opening to said receptacle, and a third gravity trough leading from said receptacle to the first said trough outwardly of the connection of the latter to the second said trough.

1,785,504. PRINTING PRESS. HENRY R. TROTTER, Chicago, Ill., assignor to Hacker Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 10, 1928. Serial No. 324,925. 9 Claims. (Cl. 101—421.)



1. A printing press including two cooperating printing members, one of said members being a rotatable cylinder, a frisket interposed between the members and having one end attached to one of the printing members and its other end to an anchorage, and positioning means for the frisket, said means including said cylinder.

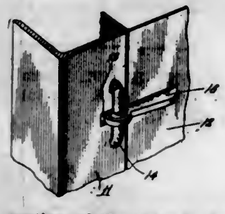
1,785,505. PRINTING PRESS. HENRY R. TROTTER, Chicago, Ill., assignor to Hacker Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 10, 1928. Serial No. 324,926. 1 Claim. (Cl. 101—421.)



A printing press including two cooperating printing members between which the sheet to be printed upon is received, one of said members being a rotatable cylinder, the printing form being carried by one of said members and being subject to printing pressure from the other member, a frisket interposed between said printing members and having relative fixed anchorages at its ends, and frisket positioning means, said means including said cylinder.

1,785,506. HINGE. WALTER N. VANCE, Chicago Heights, Ill., assignor, by mesne assignments, to Lyon Metal Products, Incorporated, Aurora, Ill., a Corporation of Illinois. Filed Jan. 20, 1928. Serial No. 248,110. 1 Claim. (Cl. 16—128.)

A hinge construction comprising a U-shaped member having a vertical stem and bent over legs, an integral enlarged conical portion having tapered flaring walls formed on the stem, an arm cooperating with the stem and having an enlargement thereon, said enlargement being provided with a bore, the walls of said bore being tapered, the tapering walls of the bore in the enlargement on the arm engaging and bearing on the walls of the



enlarged conical portion of the stem to form a support for the arm, means for fastening the arm to a door, and means for fastening the legs of the U-shaped member to a jamb.

1,785,507. FACING MEMBRANE FOR SOUND-ABSORBING MATERIALS. HOWARD F. WEISS, Madison, Wis., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis., a Corporation of Delaware. Filed Jan. 21, 1928. Serial No. 248,523. 6 Claims. Cl. 20—4.)



1. A shallow, pan-shaped facing unit for sound-absorbing material comprising a membrane of fuzz-free paper-thread fabric, said fabric being stiffened sufficiently to retain said pan-shape and woven to leave apertures therein.

1,785,508. METHOD FOR PRODUCING CEMENT. ELIAS R. WILNER, New York, N. Y., assignor to Eddystone Cement Corporation, New York, N. Y. Filed July 28, 1928. Serial No. 296,097. 2 Claims. (Cl. 106—26.)

1. The method of producing cement consisting in separately heating lime and clay, shale or other silicious earths to a relatively low point, mixing the heated lime and clay, shale or other silicious earths, grinding the said mixture to a suitable fineness, and introducing a jet of water or steam into the mixture under agitation.

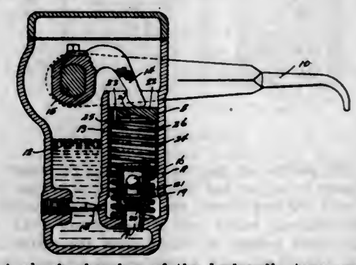
1,785,509. FLAGSTAFF HOLDER. JOHN S. BITNER, Fort Wayne, Ind., assignor to Wayne Novelty and Publishing Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Apr. 22, 1930. Serial No. 446,257. 8 Claims. (Cl. 248—37.)



1. A flag staff holder having a standard made of a flat steel bar, the lower end portion of which is upturned to

form a spring loop and a movable jaw, and the upper end portion of which is downturned to form a spring tongue normally spaced from the adjacent portion of the bar, a portion of said bar between its ends having a quarter turn formed therein; a cushion disposed on said bar opposed to said jaw; a clamping means consisting of a yoke and a lever provided with a cam pivoted in said yoke, disposed on the lower part of said standard for actuating said jaw; a perforated lug swiveled to said tongue and extending through an opening in the adjacent portion of the standard and adapted for the reception of a flag staff when the spring is depressed and to clamp said flag staff against the standard when the tongue is released; a stop on the standard for the lower end of said flag staff; and a projection on said standard having a series of notches for adjustably positioning the flag staff.

1,785,510. SHOCK ABSORBER. GEORGE W. BLACKINTON, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a Corporation of Virginia. Filed Apr. 26, 1929. Serial No. 358,184. 15 Claims. (Cl. 267—8.)



15. A shock absorber of the hydraulic type comprising a pressure chamber, a piston movable therein valve means controlling relief of pressure developed by the piston, said piston provided with an air chamber on the inner side of the head of the piston, a port through the piston head adjacent said air chamber, and a disc closing said port against the substantial escape of oil therethrough, and a spring maintaining the disc in position and also urging the piston in one direction of its movement.

1,785,511. PAPER CLIP. GEORGE BODEN, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Dec. 12, 1927. Serial No. 239,363. 1 Claim. (Cl. 24—261.)



A paper clip comprising a wire length bent on itself to form closely adjacent portions or legs nested one within the other on each side of the clip, the wire being formed with four spaced sets of gripping surfaces, so that when the wire is bent to form the clip adjacent sides of two portions or legs will be provided with such surfaces which will act to firmly grip convolutions of paper held between them as well as the face and back of such paper.

1,785,512. CLEANER FOR SHOE LININGS. HAROLD S. BUTTENHEIM, Brooklyn, N. Y. Filed Sept. 20, 1929. Serial No. 393,864. 3 Claims. (Cl. 15—210.)

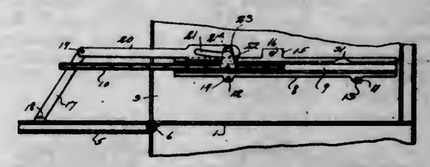


1. A cleaner for shoe linings, comprising a trapezoidal sheet of unvulcanized crepe rubber rolled closely upon itself with external helical scrubbing shoulders provided by the convergent side edges of the sheet and a stiffening rod at the center of said roll.

1,785,513. SOLVENT INHIBITOR FOR THE ACID TREATMENT OF METALS. WILLIAM S. CALCOTT, Penns Grove, N. J., and IRA E. LEE, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 17, 1929. Serial No. 355,978. 14 Claims. (Cl. 148—8.)

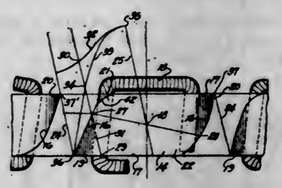
1. The process of treating metals which comprises subjecting the metal to an acid solution containing a mercaptan of the type:

1,785,514. DROP-DOOR OVEN. ERNEST A. CHANDLER and JOHN H. MCCANN, Nashville, Tenn., assignors of one-third to Isaac S. Wampler, Nashville, Tenn. Filed Aug. 31, 1929. Serial No. 389,852. 4 Claims. (Cl. 126—340.)



1. In combination, an oven provided with a hinged door, guides secured within the oven, means for detachably securing said guides in said oven, a rack slidably supported by the guides, an arm secured to the inner side of the door, a link pivotally connected to the arm and resting upon one of the guides, and means connecting the link to the rack to permit the door to move the rack outwardly during the final phase of its opening movement and to permit the door to move the rack inwardly during the first phase of its closing movement.

1,785,515. DYNAMO-ELECTRIC MACHINE. JOHN F. H. DOUGLAS, Milwaukee, Wis., assignor of one-half to Edward W. Kane, Milwaukee, Wis. Filed June 28, 1926. Serial No. 119,135. 8 Claims. (Cl. 171—252.)

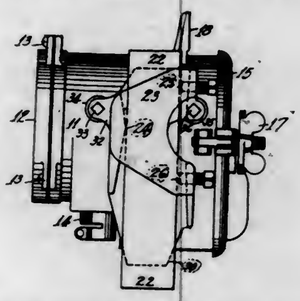


1. In a synchronous dynamo electric machine, the combination with the armature conductors, of poles having pole faces of rhomboidal shape with their edges inclined relative to said armature conductors, the inclination of the pole edges relative to the conductors being greater at points nearest the pole center line than at points near the pole edges.

1,785,516. RAILWAY SIGNAL LAMP. EDWARD A. EVERETT, New York, N. Y. Filed Feb. 18, 1929. Serial No. 340,842. 3 Claims. (Cl. 240—57.)

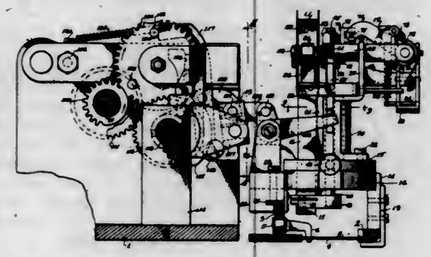
1. In a light projector support, the combination, a projector housing, a rectangular fixed arm, a sliding bracket

adjustably clamped to said arm, pivotal means connecting said housing to said sliding bracket and screws in said



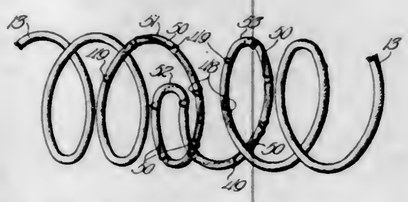
bracket, one on either side of said pivot, engaging said housing for adjusting the horizontal position of said housing on said pivot.

1,785,517. RECORDING DEVICE FOR ADDRESSING MACHINES. PAUL A. GOLLNICK and FRANK W. BRODERICK, Chicago, Ill., assignors, by mesne assignments, to Selectograph Company, Chicago, Ill., a Corporation of Illinois. Filed July 26, 1928. Serial No. 295,447. 16 Claims. (Cl. 101—57.)



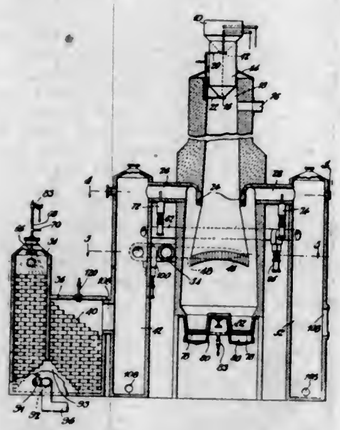
1. In a device of the class described, the combination with a guideway for stencils, a recording mechanism adapted to mark certain indicia upon the stencils, and operating means including an accumulator arranged to actuate said recording mechanism.

1,785,518. COILING DEVICE. GROVER B. HIGGINS, Chicago, Ill. Filed Feb. 5, 1930. Serial No. 426,180. 2 Claims. (Cl. 173—367.)



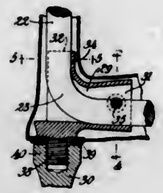
1. A coiling device for electric extension cords, comprising a resilient metal wire member, having the general shape of a helix and adapted to support the extension cord in helical form to take up slack in said cord, and a multiplicity of clamping loops formed in said wire and adapted to secure said extension cord to said wire, said loops having open sides disposed oppositely with respect to adjacent loops, to facilitate insertion of said cord in said loops and confine said cord at opposite sides of said cord.

1,785,519. MANUFACTURE OF COMBUSTIBLE GAS. HENRY O. LOEBELL, New York, N. Y., assignor to Henry L. Doherty, New York, N. Y. Filed June 29, 1921. Serial No. 481,195. 13 Claims. (Cl. 48—208.)



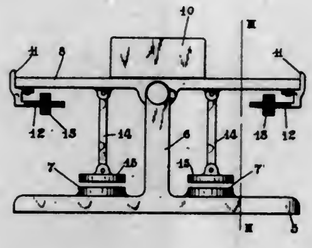
1. In the process of making water-gas in which a gas-making zone in a fuel bed is blasted in alternate periods of time with air and steam, the improvement, which comprises introducing water into a vaporizing zone during the steam blast period, in which zone the water is substantially instantaneously converted to steam, supplying the resulting steam to the gas-making zone during said steam blasting period, and automatically decreasing at a predetermined time-controlled rate the supply of water to said vaporizing zone during said steam blasting period thereby to maintain a substantially constant excess of steam in the water-gas leaving the gas-making zone.

1,785,520. AWNING FIXTURE. FREDERICK E. MARKERT, Bogota, N. J., assignor to John Boyle & Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 6, 1930. Serial No. 433,572. 6 Claims. (Cl. 156—42.)



4. An awning fixture comprising an angular device having one tubular leg and one saddle-shaped leg adapted to be threaded on and around the bent portion of a rod to be used as an awning frame, a set screw in said tubular leg having its axis perpendicular to a plane determined by the axes of the two legs of the fixture, the axis of said set screw being spaced from the inner surface of the outer wall of said tubular leg a distance slightly greater than half the diameter of the rod on which the fixture is to be used, whereby the rod may be firmly clamped between the set screw and the outer wall of said tubular leg, and a fastening element whereby an ornamental device may be secured to the fixture.

1,785,521. DEVICE FOR TESTING CLAYS AND THE LIKE. JOSEPH F. MACKIN, Columbus, Ohio. Filed Nov. 15, 1928. Serial No. 319,504. 4 Claims. (Cl. 265—16.)



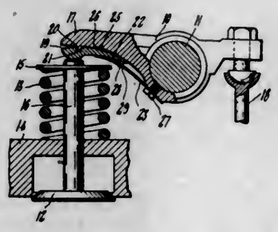
1. A device for testing the bonding strength of plastics and the like including a base, a table pivoted on said base, a bed adapted to receive said material to be tested, a compression member carried by the table to cooperate with said material receiving bed and a slidable weight on said table serving to separate the compression member from the material tested and indicate the bonding strength thereof.

1,785,522. CONNECTING DEVICE. SAMUEL S. MATTHES, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Nov. 28, 1925. Serial No. 71,926. 5 Claims. (Cl. 287—77.)



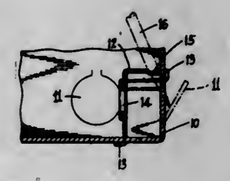
1. A connection comprising a pair of adjacent cable ends to be connected, each cable end being composed of a plurality of members, a sleeve through which each cable end extends with the end face exposed and secured to each cable end and engaging each other throughout substantially their entire lengths and having transverse ribs interlocked with each other, an interposed film of metal united to the cable and sleeve to prevent the cable ends moving longitudinally relative to each other, each sleeve having its exposed side surface unbroken and a slidably mounted collar encircling the interlocked sleeves to prevent disengagement of the sleeves.

1,785,523. VALVE-SILENCING MECHANISM. CLIFFORD J. MCLEOD, Quincy, Mass. Filed Sept. 26, 1928. Serial No. 308,415. 8 Claims. (Cl. 123J90.)



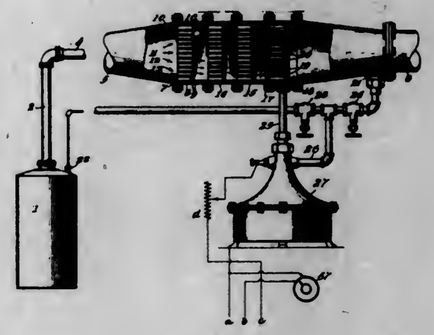
1. The combination with a valve, a stem thereon, and a valve-closing spring, of a member movable to open the valve against the pressure of the spring, a stem-contacting element rockably carried by said member and arranged to engage said stem adjacent to one end of said element, and a spring secured to said member and engaging said element selectively at various points extending from the central portion of the element to the end remote from said stem-engaging end, the point of contact between the element and the element-engaging spring depending on the position of operation of said member and stem.

1,785,524. SWITCH AND OUTLET BOX. JOSEPH E. MILCOFF, Leetsdale, Pa., assignor to National Electric Products Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 27, 1928. Serial No. 328,782. 6 Claims. (Cl. 247—25.)



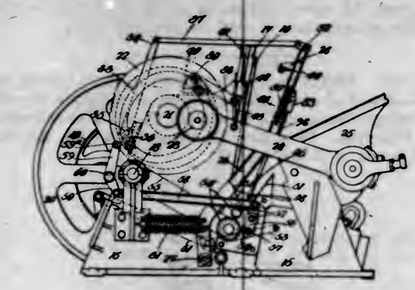
1. An outlet box having knock-outs and provided with a rigid inflexible bushing plate within the box, said bushing plate being provided with supplemental openings disposed at points substantially above the center of the knock-outs to permit an implement to be inserted therethrough and fulcrumed upon the rigid inflexible bushing plate for the purpose described.

1,785,525. INTEGRATOR AND RECORDER. MONTFORD MORRISON, Chicago, Ill. Original application filed Oct. 8, 1923, Serial No. 667,397. Divided and this application filed Oct. 22, 1928. Serial No. 314,167. 20 Claims. (Cl. 234—34.)



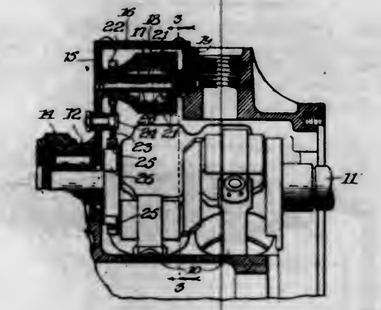
1. In a flow measuring device, a source of electric current, a manometer having an electric impedance element deriving current from said source and conductance values responsive to variation in the flow to be measured, a second circuit deriving current from same said source and having a conductance value independent of said variation, an electromagnetically operated measuring means having two electromagnetic windings, one in series with said manometer element and one in said second circuit, whereby the measurement produced is substantially proportional to the quotient of the currents in the above said circuits.

1,785,526. CUTTING AND CREASING PRESS FOR PAPER, CARDBOARD, OR THE LIKE. JOHN IRVING NASMITH, Erith, England, assignor to Vickers Limited, Westminster, England, a British Company. Filed Oct. 2, 1928, Serial No. 309,702, and in Great Britain Dec. 13, 1927. 27 Claims. (Cl. 101—287.)



1. A cutting and creasing press for paper comprising, an impression forme, means enabling paper to be introduced into the press, means for pressing the forme and the paper together, and means operating with a peeling action for removing the paper from the forme.

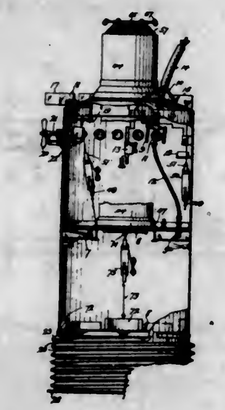
1,785,527. VENTING MEANS FOR PNEUMATIC DRILLS. REINHOLD A. NOBLING, Aurora, Ill., assignor to Independent Pneumatic Tool Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 25, 1927. Serial No. 186,269. 3 Claims. (Cl. 121—33.)



1. In a fluid actuated rotary tool, the combination with a casing, of a crank shaft journalled therein and having crank arms, a hollow drum rotatably mounted within the casing at one side of the crank shaft, said drum having vent apertures and being open to the atmosphere through the casing for venting the same, said drum having gear teeth about the same, a ring gear on one of the arms of the crank shaft, and a pinion within the casing and meshing with said ring gear and teeth on the drum, respectively, whereby the drum will be rotated by the crank shaft.

1,785,528. DIVING APPARATUS. JOHN F. O'ROURKE, New York, N. Y. Filed Mar. 24, 1928. Serial No. 264,522. 2 Claims. (Cl. 61—69.)

1. A diving apparatus comprising a chamber having an open bottom and adapted to contain compressed air, an accordion member attached to the open bottom of said chamber and having means for attachment to a deck or hull plate of a vessel whereby said chamber will form an enclosure for a portion of said plate, and means operable from within said chamber for adjusting the angle of the lower portion of said accordion member in relation to the



angle of said chamber, comprising a series of turnbuckles connected between said chamber and the lower portion of said accordion member.

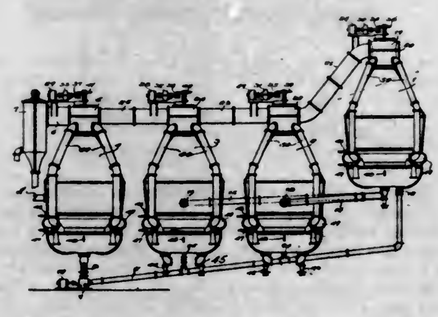
1,785,529. BLASTING-EXPLOSIVE ASSEMBLY. CARL D. PRATT, Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del., a Corporation of Delaware. Filed Jan. 10, 1930. Serial No. 420,013. 10 Claims. (Cl. 102—1.)



1. An explosive assembly of the character described, consisting of a main charge of a deflagrating but non-high explosive composition, in which is located, longitudinally, a core with a minimum diameter of ¾ inch, consisting of a high explosive composition comprising no less than 2% and no more than 50% of the total weight of the assembly and which core extends entirely through the main charge.

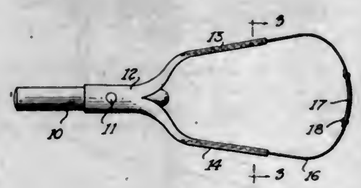
1,785,530. METHOD OF CRYSTALLIZATION. JOSHUA R. RAY and THOMAS RAY, Manistee, Mich. Filed Jan. 18, 1928. Serial No. 247,541. 9 Claims. (Cl. 159—50.)

8. In a quadruple effect of the kind described, means for transferring liquid from the fourth effect to the first, second and third effects, valves in said means at each of said effects, means for discharging said first effect into said second and third effects by gravity flow, valves in said last-mentioned means located at each of said first, second and third effects, means for circulating the liquid in each of said effects, means for utilizing the vapor generated in said first effect to heat said second effect, means for utilizing the vapor generated in said second effect for heating said third effect, means for utilizing the vapor generated in said third effect for heating said fourth effect, and a condenser for condensing the vapor generated in said fourth effect.



9. A method of crystallizing sugar in multiple effect comprising partially filling an evaporating pan with liquor, then evaporating a grain, then slowly feeding more of said liquor to said evaporating pan, then making a cut strike into a plurality of associated evaporating pans of said multiple effect, and feeding the second mentioned pans with fresh liquor.

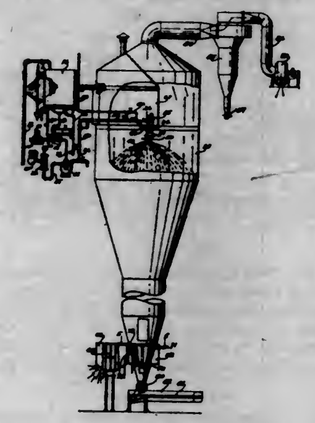
1,785,531. WEEDING TOOL. ALFRED ROESCH and JOHN ROETTINGER, Rahway, N. J. Filed Mar. 5, 1929. Serial No. 344,197. 2 Claims. (Cl. 97—63.)



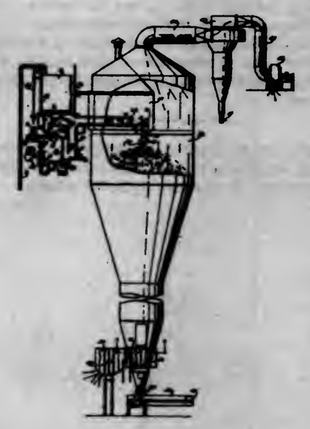
1. A welding tool comprising a handle, a forked holder having a socket adapted to be riveted to the end of said handle, a pair of arms U-shaped in cross-section to form channels integral with said socket, and a loop member having elastic arms or ends adapted when bent towards each other to engage the said channels and to be frictionally held therein upon their release for expansion, and a means attached at the apex of said loop for uprooting weeds by pulling on said handle.

1,785,532. APPARATUS FOR PRODUCING SHREDDED SOAP. JULIUS A. SCHWANTES, Wauwatosa, Wis., assignor to Colgate-Palmolive-Peet Company, Chicago, Ill., a Corporation of Delaware. Filed June 28, 1928. Serial No. 288,950. 11 Claims. (Cl. 83—91.)

1. In an apparatus for producing shredded soap, the combination with a drying chamber, of soap-shredding apparatus for delivering soap shreds thereto in semi-liquid form, means for moving heated drying air upwardly through said chamber, and means for directing said upwardly moving current of air downwardly in the vicinity of the shredding apparatus to prevent soap deposition thereon.



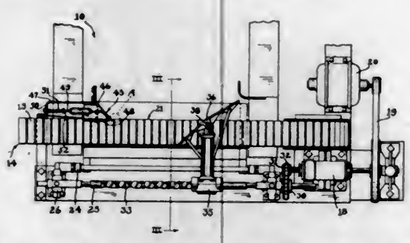
1,785,533. SOAP MANUFACTURE. JULIUS A. SCHWANTES, Wauwatosa, Wis., assignor to Colgate-Palmolive-Peet Company, Chicago, Ill., a Corporation of Delaware. Filed June 28, 1928. Serial No. 288,951. 3 Claims. (Cl. 87—16.)



1. The method of making shredded soap which comprises beating a mixture of hot, semifluid soap and air, under pressure, into a frothy condition, delivering the mixture so formed to a shredder, shredding said soap while in its semifluid condition, and drying said shreds as nonadhering entities.

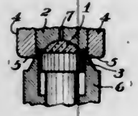
3. The method of making shredded soap which comprises delivering soap in semifluid condition to a shredder, shredding the soap as it is discharged from the shredder, drying the shredded soap particles by downward descent in an upwardly moving current of heated air, and inducing a downward flow of the drying air adjacent the shredder to prevent deposition of soap particles thereon.

1,785,534. LEER FEEDER. IRVING SIMONIS, Toledo, Ohio, assignor to Owens-Illinois Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 12, 1928. Serial No. 269,317. 7 Claims. (Cl. 198—31.)



1. A leer feeder comprising, in combination, a ware conveyor, a plow arranged over the conveyor, means to reciprocate the plow longitudinally of the conveyor to move ware from the conveyor to one side thereof, and means to transversely incline the ware supporting areas of the conveyor to facilitate removal of ware therefrom.

1,785,535. METHOD OF FORMING THIN-WALLED GLASS ARTICLES. THEODORE H. SLOAN, Charleroi, Pa., assignor to Macbeth-Evans Glass Company, a Corporation of Pennsylvania. Filed Sept. 28, 1929. Serial No. 395,894. 5 Claims. (Cl. 49—80.)



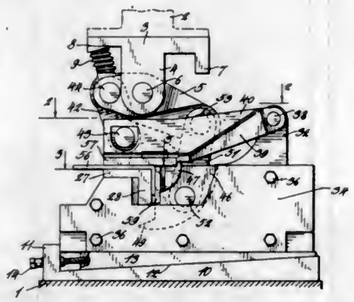
1. The method of forming a thin-walled glass article, comprising pressing molten glass to form a blank having a dome-shaped upper surface surrounded by a chilled flange, holding the blank horizontally by its chilled flange while its central portion sags and elongates downwardly therethrough, and blowing a finished article from the elongated blank.

1,785,536. DRY MOP. FRANK SPAETH and TAMARA SPAETH, Hamden, Conn. Filed July 23, 1930. Serial No. 470,059. 2 Claims. (Cl. 15—228.)



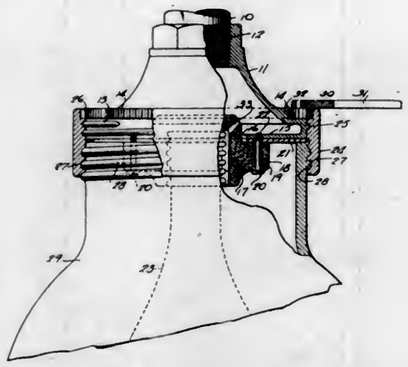
1. A dry mop comprising a frame covered with fibrous material, said frame provided with cross-bars, a handle pivotally connected with said crossbars, a rod movably mounted on said handle, the lower end of the rod deflected and connected with one side of the frame.

1,785,537. FLANGING MACHINE. DOUGLAS E. STEVENS, Denver, Colo. Filed July 30, 1929. Serial No. 382,159. 6 Claims. (Cl. 153—16.)



1. A flanging machine comprising, in combination, a stationary flanging block, a clamping member, a main bearing block mounted for movement towards and away from the flanging block, a lever pivoted intermediate its ends to the main bearing, a plate clamp, links extending from the plate clamp to one end of the lever, a flanging arm pivotally connected with the plate clamp, links connecting the other end of the lever with the flanging arm, a stop for one end of the lever and resilient means for normally holding the lever against the stop.

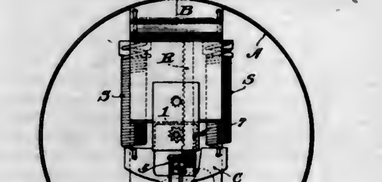
1,785,538. VAPORPROOF LIGHTING UNIT. JOSEPH A. VOLK, Norwalk, Conn. Filed Apr. 4, 1929. Serial No. 352,363. 8 Claims. (Cl. 240—128.)



1. The combination with a closed glass envelope having a threaded neck, of a ring threaded onto the neck, a support threaded into the ring, and a gasket interposed between the support and neck of the glass envelope, the threads between the ring and the neck and the support being of different pitch whereby a differential action is obtained by turning the ring while the support and envelope are stationary.

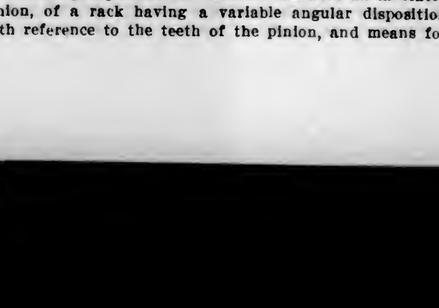
1,785,539. METHOD AND MEANS FOR STORING AND REMOVING REFUSE. FRANK B. ALLEN, Lower Merion Township, Montgomery County, Pa., assignor to The Allen-Sherman-Hoff Company, a Corporation of Pennsylvania. Filed Apr. 13, 1929. Serial No. 354,787. 11 Claims. (Cl. 110—171.)

1. The method of handling refuse which comprises collecting heated refuse in a hopper and, during substantially the entire time of said collection, submerging the refuse under water, maintaining the water below a temperature at which marked steaming occurs, discharging the refuse mixed with water from the hopper into a separately formed moving stream of water at a rate consistent with



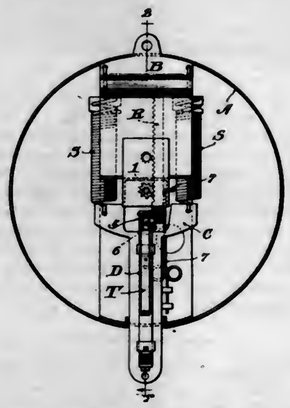
the ability of the latter to handle such discharge, and transporting such refuse to a point of disposal by said separately formed stream.

1,785,540. VENTILATOR. GEORGE E. BLACK, Sewickley, Pa., assignor to H. H. Robertson Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 13, 1928. Serial No. 269,691. 4 Claims. (Cl. 98—85.)



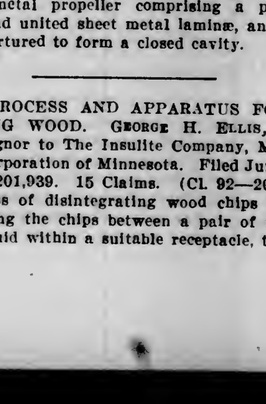
1. The combination with a ventilator provided with an eduction pipe, of a valve cooperating with said pipe to close and open the same, and a gutter below said valve open at its top and provided with side and end walls, and having a water outlet pipe extended from one of said end walls through said eduction pipe to the outside thereof.

1,785,541. SPRING SCALE. HENRY M. BRIGHAM, Brooklyn, N. Y., assignor to John Chatillon & Sons, New York, N. Y. Filed June 6, 1929. Serial No. 368,858. 9 Claims. (Cl. 265—69.)



1. In a spring scale, the combination with an indicator pinion, of a rack having a variable angular disposition with reference to the teeth of the pinion, and means for so controlling the angular position of the rack that it will correct errors of the indicator due to changes in temperature.

1,785,542. WEIGHING DEVICE FOR DIAL BALANCES. JOHANN DOCKL, Graz, Austria, assignor to Aktiebolaget Sveaexport, Stockholm, Sweden. Filed Dec. 31, 1928, Serial No. 329,353, and in Austria Dec. 1, 1927. 5 Claims. (Cl. 265—48.)



1. In combination, in a device for placing the weights on the weight pan of a weighing machine, a group of disc-shaped weights, telescopically arranged tubes for suspending the weights, a cam cylinder supporting the tubes and having therein a slot partly helical and partly horizontal, and means for placing the weights upon or lifting them from, one by one, the weight pan by rotation of said cam cylinder or cylinders and by coaction with said slot or slots.

1,785,543. METAL PROPELLER. CLAUDIUS DORNIER, Friedrichshafen-on-the-Bodensee, Germany, assignor of one-half to the Firm Dornier-Metallbauten, Gesellschaft mit beschränkter Haftung, Friedrichshafen-on-the-Bodensee, Germany. Filed Nov. 3, 1924, Serial No. 747,700, and in Germany Nov. 14, 1923. 2 Claims. (Cl. 170—159.)

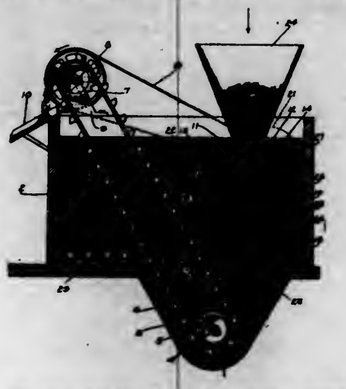


1. An all-metal propeller comprising a plurality of superposed and united sheet metal laminæ, an inner lamina being apertured to form a closed cavity.

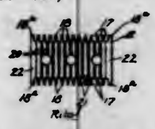
1,785,544. PROCESS AND APPARATUS FOR DISINTEGRATING WOOD. GEORGE H. ELLIS, St. Paul, Minn., assignor to The Insulite Company, Minneapolis, Minn., a Corporation of Minnesota. Filed June 27, 1927. Serial No. 201,939. 15 Claims. (Cl. 92—20.)

1. A process of disintegrating wood chips which consists in passing the chips between a pair of rollers submerged in liquid within a suitable receptacle, to force the

air out of the wood, then allowing the squeezed chips to expand and absorb the liquid, and immediately subjecting the liquid-soaked chips to a second pressing operation to quickly force the liquid out of the chips to separate the fibers.



1,785,545. SAFETY RAZOR. ERIC W. ERICSSON, Brooklyn, N. Y. Filed Mar. 21, 1930. Serial No. 437,642. 12 Claims. (Cl. 30—12.)



1. A guard plate for razors of the class described having a plurality of projecting members spaced longitudinally of opposite side edges of said plate and a plurality of recesses arranged transversely of the plate and in alinement with each of said projecting members.

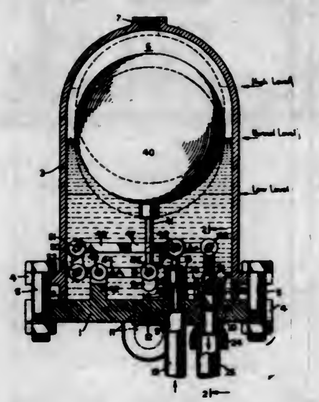
1,785,546. MACHINE FOR MAKING LOOSE LEAVES FOR BOOKS. WILLIAM FLETT, Melrose, Mass., assignor to National Publishing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 24, 1928. Serial No. 321,658. 26 Claims. (Cl. 270—82.)



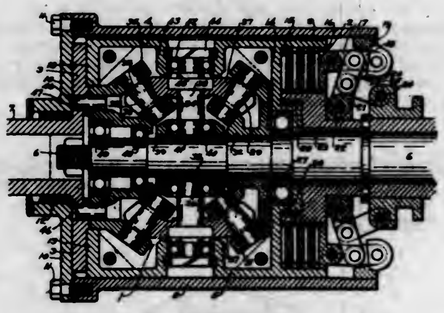
1. The combination of a supporting frame, supporting means for a roll of paper, mechanism for advancing a strip of paper from a roll supported by the supporting means, means for folding a longitudinal edge portion of the paper strip downwardly and inwardly and upwardly adjacent to the main body of the strip, mechanism for punching holes through the paper strip and the folded edge portion thereof, and mechanism for cutting the paper strip transversely into separate sections.

1,785,547. DUPLEX FEEDER FOR LOW-PRESSURE HEATING BOILERS. LEO P. FLOOD, Sunnyside, N. Y., assignor to Nason Manufacturing Company, New York, N. Y., a Corporation of New York. Filed June 8, 1928. Serial No. 283,876. 7 Claims. (Cl. 137—101.)

1. A duplex feeder for low pressure heating boilers comprising a chamber adapted to have a certain water level therein corresponding to the water level in the boiler, the floor of said chamber having an outlet opening, a fulcrum in said casing, the floor of said casing having an inlet opening between said outlet opening and fulcrum, a float having a stem between said inlet opening and fulcrum, a lever pivoted between its ends to said fulcrum and at one end to said stem, said openings having valve guides, valves in said guides, a member pivoted to said valves, a link connecting the free end of said lever and adjacent end of said member, and spring means normally holding the valve for said outlet opening closed.



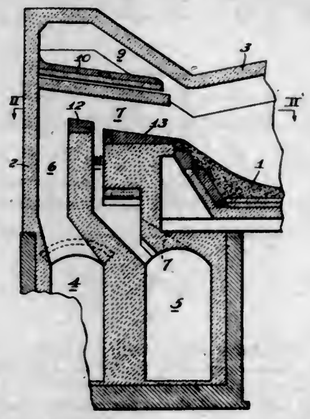
1,785,548. DOUBLE-END-DRIVE REVERSE CLUTCH. RALPH GERBER, Raymond, Wash. Filed Dec. 30, 1929. Serial No. 417,323. 5 Claims. (Cl. 74—34.)



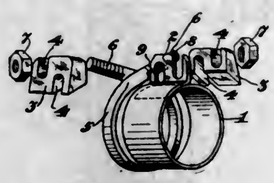
1. In a reverse gear of the character described, coaxially arranged driving and driven elements each having circumferential sets of rollers, an assembly of rotatably mounted sprockets each of which is in permanent engagement with both of said sets of rollers, a floating split drum shaped housing, in which the said elements are mounted, friction clutches at both ends of the housing for holding the said driving and driven elements in relation to the said housing, means for operating the said clutches from one end through the housing, a suitable surrounding casing, and releasable means for holding the said surrounding casing.

1,785,549. OPEN-HEARTH REGENERATIVE FURNACE. JOHN O. GRIGGS, Steubenville, Ohio. Filed Apr. 1, 1929. Serial No. 351,490. 1 Claim. (Cl. 263—15.)

An open hearth regenerative furnace provided at each end with a horizontally disposed gas port, an air port above the gas port, passages for conducting gas and air to said ports, and a by-pass conduit leading from said air passage to the bottom of said gas port at a point anterior of its outlet, the bottom of said gas port adjacent to but anterior of the outlet of said by-pass being provided with an upwardly extending baffle to cause uniform flow of air from the by-pass into the gas port.

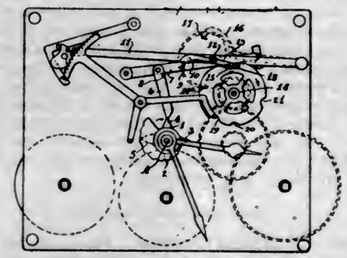


1,785,550. HOSE CLAMP. CHARLES C. HANSEN, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed July 16, 1930. Serial No. 468,330. 3 Claims. (Cl. 24—19.)



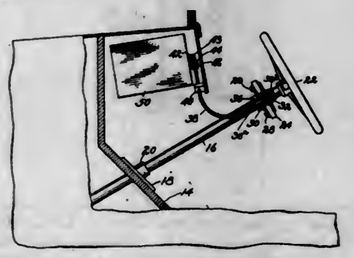
1. In a hose clamp or the like, a helical member, a strap fitting inside thereof having overlapping ends, a flange on said strap to engage the ends of the helical member, and means to reduce the diameter of the helical member.

1,785,551. AUTOMATIC STRIKE-REGULATING MEANS FOR CLOCKS. FRITZ HECKERT, Schwenningen-on-the-Neckar, Germany, assignor to Kienzle Uhrenfabriken A. G., Schwenningen-on-the-Neckar, Wurttemberg, Germany, a Corporation of Germany. Filed Nov. 13, 1924, Serial No. 749,686, and in Germany Feb. 25, 1924. 18 Claims. (Cl. 58—13.)



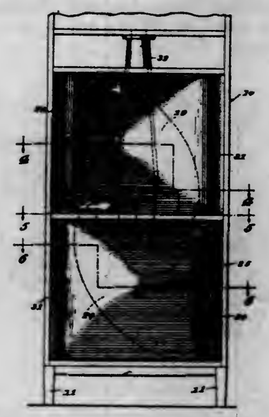
18. In combination, a warning lever; a detent lever; a two arm lever pivoted to one of the first named levers and forming an operative connection between the two to raise the detent lever a releasing distance when the two arm lever is in one position and the warning lever is raised a certain distance and to raise the detent lever said releasing distance when the two arm lever is in another position only when the warning lever is raised a greater distance; a rotatable member provided with points for operating the warning lever, one of the points being more remote from the center of said member than the others for raising the warning member said greater distance; and a quarter striking disk having means thereon cooperating with the two arm lever, at one quarter position of the striking disk, for permitting said two arm lever to move to said other position.

1,785,552. PORTABLE RADIO APPARATUS. WILLIAM M. HEINA, Long Island City, N. Y., assignor to Automobile Radio Corporation, a Corporation of Delaware. Filed Dec. 14, 1928. Serial No. 326,100. 8 Claims. (Cl. 250—14.)



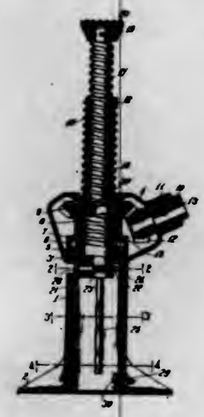
1. In combination with a vehicle having means for controlling movement thereof positioned for operation by the driver of said vehicle, said means including a steering column, a radio telephonic instrument mounted at a distance from said column, and apparatus extending from said column for governing said instrument.

1,785,553. SOUND-AMPLIFYING MEANS. FRANK C. HINCKLEY, Stratford, Conn., assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn., a Corporation of New York. Filed Mar. 12, 1926. Serial No. 94,177. 16 Claims. (Cl. 181—27.)



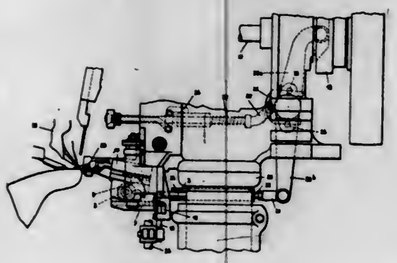
1. In an amplifier, an enclosure having a plurality of superposed compartments, amplifying means in each of said compartments, and said amplifying means being arranged relatively to cause the sound directed from one of them to intersect the plane in which sound is directed from another of them.

1,785,554. LIFTING JACK. BEN F. JOHNSON, Racine, Wis., assignor to Walker Manufacturing Company, Racine, Wis., a Corporation of Wisconsin. Filed Oct. 11, 1926. Serial No. 140,857. 4 Claims. (Cl. 254—102.)



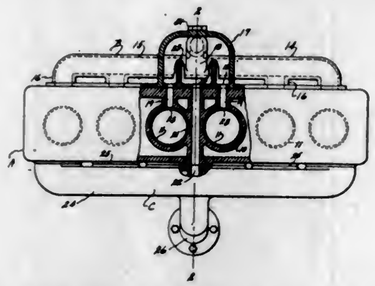
1. In a lifting jack comprising a standard, and a lifting member capable of either vertical or rotary movements in the standard, means for controlling the movements of the lifting member comprising a yieldable plunger projecting from the member, a substantially vertical guide rib in the standard adapted to engage the plunger and prevent continued rotation of the member, the rib terminating short of the limit of vertical movement of the member, and means carried by the standard beyond the end of the rib but entirely out of vertical alignment therewith for engaging the plunger to prevent continued rotation in one direction, this means serving to depress the plunger to permit continued rotation of the plunger in opposite direction.

1,785,555. LASTING MACHINE. FRITZ KENNEL, Weissenfels, O. S., Germany, assignor to the Firm of Nollesche Werke Komm.-Ges., Weissenfels, O. S., Germany. Filed Mar. 27, 1929, Serial No. 350,363, and in Germany Apr. 5, 1928. 7 Claims. (Cl. 12—2.)



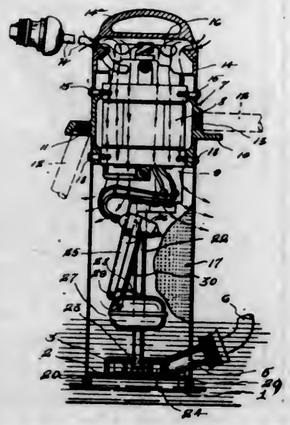
5. In a lasting machine of the class described, lasting pincers in the front of the machine, slitting knives supported behind the pincers, and means for moving said slitting knives along broken paths.

1,785,556. INTERNAL-COMBUSTION ENGINE. ARCHIE MACPHAIL NIVEN, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a Corporation of Virginia. Filed Mar. 7, 1927. Serial No. 173,320. 24 Claims. (Cl. 123—122.)



1. A sleeve valve engine having a ported cylinder and a ported sleeve controlling the intake and exhaust gases said cylinder having an auxiliary port, and means controlled by said ported sleeve for supplying exhaust gases through said auxiliary port to a point suitably for applying heat to the fuel mixture.

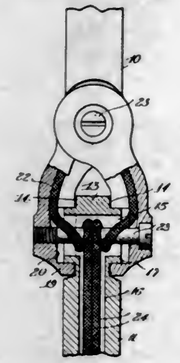
1,785,557. SUMP PUMP. JONAS L. OBERDORFER, Syracuse, N. Y., assignor to M. L. Oberdorfer Brass Company, Syracuse, N. Y., a Corporation of New York. Filed Apr. 4, 1928. Serial No. 267,211. 2 Claims. (Cl. 103—87.)



1. A sump pump comprising a base, a pump casing mounted on the base and having an outlet, a body, an electric motor mounted in the body and arranged in vertical position, the motor shaft extending into theypump housing and an impeller mounted on the lower end of the shaft within the pump casing, the casing having an inlet and a perforated wall secured at its upper end to the body and at its lower end to the base, the body having two sets of sockets arranged at different angles for receiving supporting arms, one set being arranged substantially radially whereby the arms extend horizontally and the other set being downwardly facing whereby the arms extend downwardly to serve as standards.

1,785,558. UNIVERSAL JOINT. ALPHONSE F. PIEPER, Rochester, N. Y. Filed Feb. 23, 1923. Serial No. 620,700. 6 Claims. (Cl. 247—31.)

2. The combination with a pair of relatively movable conduit sections having their adjacent ends formed with opposed bearing surfaces and with lateral openings communicating with the bores of said conduit sections, said surfaces of one section end being disposed transversely to the surfaces of the other, of a pair of channeled links disposed on opposite sides of said opposed bearing surfaces and having bearing surfaces at opposite ends ar-



ranged transversely with respect to each other for cooperation with the bearing surfaces of said section ends, means for holding the bearing surfaces of said section ends and links together to form a universal joint for said sections, and electrical conductors housed in said conduit section and the channels in said links.

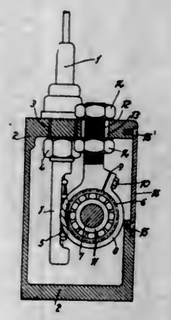
1,785,559. STRESS AND STRAIN COMPENSATING JOINT FOR ROTARY WELL-DRILLING COLUMNS. ARTHUR J. PONTI, Los Angeles, Calif. Filed Oct. 28, 1927. Serial No. 229,388. 6 Claims. (Cl. 255—28.)



1. In a drilling apparatus, a pipe column comprising in its length a telescopic joint provided with means for compensating longitudinal stresses in the column, and means for applying hydrostatic pressure inside the joint to counter-balance the hydrostatic pressure outside the joint during drilling.

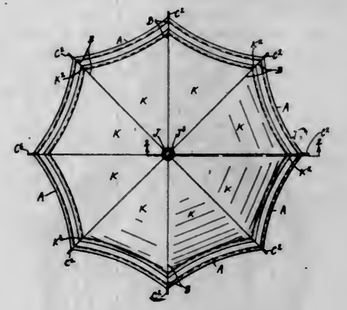
1,785,560. SPINNING AND TWISTING MACHINE. JOSÉ SERRA RABERT, Barcelona, Spain. Filed May 3, 1928, Serial No. 274,876, and in Spain May 12, 1927. 3 Claims. (Cl. 118—45.)

1. In machines for continuous spinning and twisting having a plurality of spindles, a driving spindle and means for mounting the driving spindle, comprising a supporting frame for the spindles, supports for the driving spindle, which supports are provided with suspension parts which traverse the supporting frame through holes giving clearance, whereby lateral adjustment of the supports may be effected to facilitate adjustment of the engagement of



the gears by which transmission of movement to the spindle is effected, and screw-threaded nuts screwing upon the said suspension parts and between which the supporting frame is engaged for the retention of the supports in the relative position of adjustment.

1,785,561. DETACHABLE COVER FOR UMBRELLAS. EVA M. RILEY, Glenwood City, Wis. Filed Oct. 31, 1928. Serial No. 316,608. 1 Claim. (Cl. 135—34.)

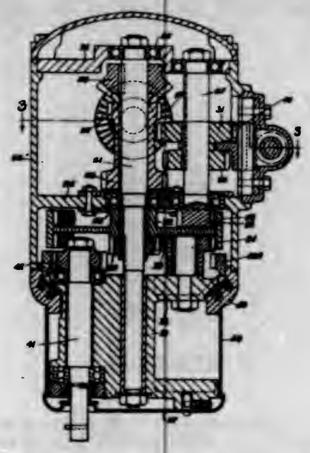


In a detachable umbrella cover for umbrellas having a main stick with radially expansible ribs hinged near its top end and a removable flanged stick cap for securing said cover at its center and means for removably securing said cover at its perimeter to the free ends of said ribs; said cover means comprising a main cover attachable as described and an auxiliary cover over the main cover and securable to said flange means at its center, the perimeter of said auxiliary cover being inwardly of the perimeter of the main cover and fixed at predetermined points to said main cover, to expose a corresponding area of the main cover outwardly of the perimeter of the auxiliary cover.

1,785,562. DIFFERENTIAL-SPEED AGITATOR DRIVE. SIGMUND SCHIFF, Cincinnati, Ohio, assignor to The J. H. Day Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Dec. 8, 1927. Serial No. 238,643. 7 Claims. (Cl. 74—34.)

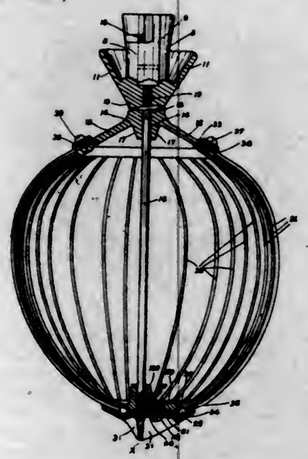
1. In a device of the class described the combination of a driven member comprising a revoluble disc, a pinion mounted eccentrically on the disc, a drive shaft co-axial with the disc, a ring gear freely revoluble on the drive

shaft, a pinion on the drive shaft meshing with the pinion on the disc, a counter-shaft having geared connection with



the ring gear, means for driving the countershaft from the drive shaft and means for locking the counter-shaft against rotation.

1,785,563. EGG WHIP AND THE LIKE. SIGMUND SCHIFF, Cincinnati, Ohio, assignor to The J. H. Day Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 27, 1928. Serial No. 295,830. 11 Claims. (Cl. 259—102.)



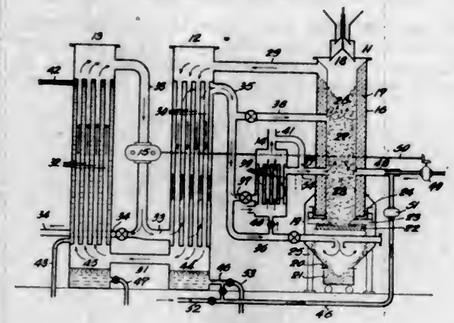
1. A beater of the class described comprising a plate having an annular group of perforations therein, a central socket on the plate adapted for attachment to an actuating shaft, a rod depending from said socket portion, a clamp plate secured to the free end of the rod, a co-operating clamp plate adapted for attachment with the first mentioned clamp plate, said co-operating plates having between them an internal channel of substantially elliptical form and a series of spaced transverse grooves communicating with said channel, a plurality of single wires of uniform length having shoulders disposed in said channel, the wires being retained between said co-operating plates, lugs on the opposite ends of the wires for entry into the perforations in the first mentioned plate and an annular clamping member secured to said plate and retaining the wires in position thereon.

1,785,564. PUSH-BROOM-HANDLE BRACKET. FREDERICK SCHWEIGERT, New York, N. Y. Filed July 11, 1930. Serial No. 467,295. 3 Claims. (Cl. 306—22.)



1. A push broom handle bracket, comprising a ring portion for encircling a broom handle, a base portion connected with said ring portion for non-rotative connection with the body of said broom, and coacting means on said ring portion for non-rotatively connecting the ring portion with said handle, comprising a bolt extended through said ring portion and having a curved central portion for extending around a peripheral groove formed in the broom handle and having radial bottom sections for engaging in radial slots formed in the broom handle, and a spring attached upon the top of the central portion of said bolt for engaging the top of the groove in said broom handle and urging the radial portions together.

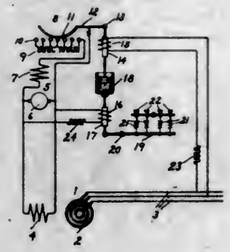
1,785,565. APPARATUS FOR DISTILLING SOLID CARBONIZABLE MATERIALS. FREDERICK T. SNYDER, New Canaan, Conn. Filed June 8, 1925, Serial No. 35,806, and in Canada May 14, 1925. 10 Claims. (Cl. 202—109.)



1. In apparatus for distilling carbonaceous material, a vertical distillation chamber including an upper evaporating section, an intermediate carbonizing section and a bottom cooling section, a conduit leading to the bottom of the cooling section to supply cooling gas, a second conduit leading to the bottom of the carbonizing section to supply hotter gas, and a third conduit leading to the bottom of the evaporating section to supply cool gas thereto, and a fourth conduit leading from the top of the distillation chamber for withdrawing all the gas supplied by the other conduits, a heat exchanger into which the fourth conduit discharges, a condenser connected to the heat exchanger to receive gas therefrom, and a reflux connection between the condenser and heat exchanger to deliver cooled gas from the condenser to the exchanger for reheating, connections between the heat exchanger and the first, second and third conduits for supplying reheated gas thereto.

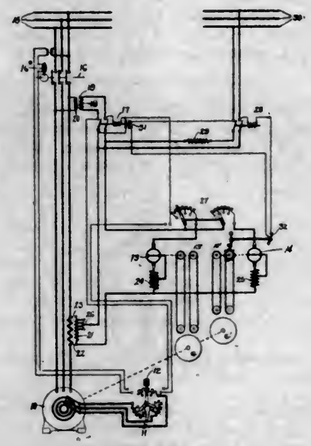
1,785,566. REGULATOR. LOUIS W. THOMPSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 26, 1929. Serial No. 388,357. 5 Claims. (Cl. 171—229.)

1. In combination, a distribution circuit, a dynamo electric machine connected to said circuit, a variable resistance type regulator for said dynamo electric machine, said regulator having an operating means connected to be responsive to changes in an electrical condition of said distribution circuit, and an anti-hunting means connected to be responsive to an electrical condi-



tion of the field circuit of said dynamo electric machine, and a yielding connection having a time element function between said operating means and said anti-hunting means whereby said operating means and said anti-hunting means are normally in a state of independent static equilibrium.

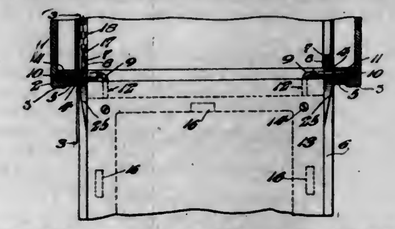
1,785,567. MOTOR-CONTROL SYSTEM. PAUL WEISKE and KONRAD RUPPRECHT, Berlin, Germany, assignors to General Electric Company, a Corporation of New York. Filed Jan. 27, 1925, Serial No. 5,042, and in Germany Feb. 11, 1924. 15 Claims. (Cl. 83—75.)



1. In a control system for a dual feed wood pulp grinder, the combination of a motor for driving a pair of grinder stones, a separate electric motor for feeding the wood to each grinder stone, and means responsive to the loads on said feed motors for automatically regulating the said feed motors to cause the loads imposed on the grinder stones by said feed motors to bear a predetermined relation to each other.

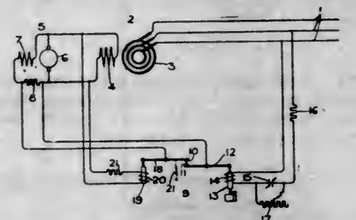
1,785,568. GAS RANGE. RUSSELL D. WELLS, Pottstown, Pa. Filed Feb. 28, 1927. Serial No. 171,426. 3 Claims. (Cl. 126—191.)

1. A gas range having standards and a front wall provided with a door opening, a door to close said opening and having rearwardly extending arms, pivot pins passing through said arms and journalled on said standards and having deflected portions, said door having means to limit



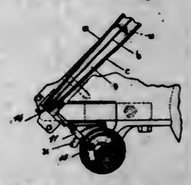
longitudinal movement in one direction of said pins and a lining for the door overhanging said deflected portions to retain said pivot pins in assembled position.

1,785,569. ELECTRICAL REGULATOR. FRED H. WINTER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 19, 1929. Serial No. 415,330. 8 Claims. (Cl. 171—119.)



1. In a regulator of an electrical condition of alternating current circuits, in combination, an alternating current circuit, a magnet coil connected to said circuit, and means associated with said coil for causing the circuit containing the latter to operate at substantially unity power factor.

1,785,570. TACK-FEEDING DEVICE. KARL WOLLNY, Weissenfels, O. S., Germany, assignor to the Firm Nollesche Werke Komm.-Ges., Weissenfels, O. S., Germany. Filed June 10, 1929, Serial No. 369,650, and in Germany Jan. 1, 1929. 4 Claims. (Cl. 1—6.)

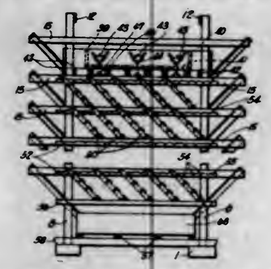


2. In a tack-feeding device of a lasting machine, a tack-hopper, three separate compartments within the hopper, a fixed conduit for the tacks to be driven, three raceways leading from the compartments of the hopper, means for aligning any of the raceways relatively to the fixed conduit, a cam moving the aligning means, means for moving the cam, and means for adjusting the relative position between the cam and its moving means to adapt the aligning means, to successively align any selected two of the raceways with the fixed conduit.

1,785,571. PROCESS FOR TREATING WOOD. ARTHUR P. ALLEN, Burlingame, Calif. Filed May 23, 1925. Serial No. 32,444. 2 Claims. (Cl. 99—12.)

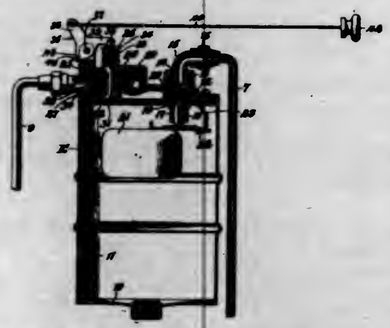
1. The process of treating wood which consists in subjecting it to the action of a saccharide solution under pressure to secure complete penetration by said solution and adding a mineral or vegetable oil to the solution to form an emulsion.

1,785,572. COOLING TOWER. REXFORD O. ANDERSON, Seminole, ULYSSES S. RUDY, Oklahoma City, and BENJAMIN M. GESSEL, Tulsa, Okla. Filed Dec. 9, 1929. Serial No. 412,892. 5 Claims. (Cl. 261—113.)



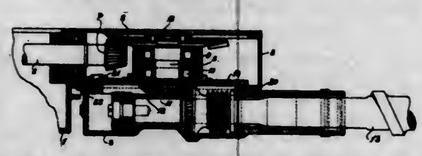
1. In a cooling tower, the combination with a superstructure of suitable uprights and tiers of cross members, of a plurality of baffles adapted to be selectively positioned in a sloping manner between two of said tiers of cross members, said baffles each having a plurality of baffle members each having serations for preventing the accumulation of liquid.

1,785,573. FUEL-FEED SYSTEM FOR INTERNAL-COMBUSTION ENGINES OF AUTOMOBILES. LESTER P. BARLOW, Detroit, Mich. Filed Oct. 2, 1929. Serial No. 396,891. 16 Claims. (Cl. 158—36.)



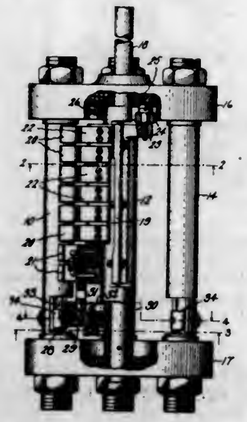
1. In a fuel feed system, the combination with an internal combustion engine having an intake manifold, of a carbureter connected to said manifold, a main supply fuel tank, a fuel feed connection between the main tank and the carbureter including a fuel pump and an auxiliary fuel tank having an air vent, a vacuum connection between the auxiliary tank and the intake manifold, valve means for the auxiliary tank normally closing the vacuum connection and opening the air vent, and means for moving said valve means to open the vacuum connection and close the air vent.

1,785,574. COAL-CUTTING MACHINE AND THE LIKE. WILLIAM CHRISTIE BLACK, Dudley, England, assignor to Matthew Smith Moore, Brussels, Belgium. Filed May 2, 1928, Serial No. 274,437, and in Belgium May 12, 1927. 7 Claims. (Cl. 262—30.)



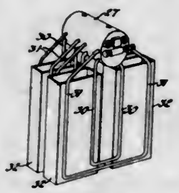
1. In a coal cutting machine, the combination of a gear head having a vertical shaft, a casing therefor, a cutting mechanism, a carrier rotatably seated in said casing, said carrier forming a permanent bearing for said shaft, and means for detachably securing said mechanism to said carrier.

1,785,575. RATIO-ADJUSTING SWITCH. LOUIS F. BLUME, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Oct. 3, 1929. Serial No. 397,124. 4 Claims. (Cl. 200—8.)



1. A switch including a plurality of terminals, a main terminal connector, an auxiliary terminal connector, means for moving said main connector from one terminal connecting position to another, and means for moving said auxiliary connector between the same terminal connecting positions during the motion of the main connector, whereby the main connector is protected from arcing.

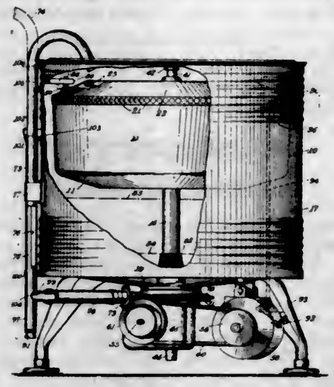
1,785,576. REFRIGERATING MECHANISM. HENRI A. BRYSSELBOUT, Detroit, Mich., assignor to Copeland Products, Inc., a Corporation of Michigan. Filed Jan. 18, 1928. Serial No. 247,581. 6 Claims. (Cl. 62—95.)



1. In combination, a looped refrigerant passage lying in a single plane, a second looped refrigerant passage lying in a plane parallel to the first mentioned plane and within the first mentioned loop, and a box-like structure of heat conducting material having an open top and bottom and having a face secured in thermal contact with one leg of each of said loops.

1,785,577. LAUNDRY MACHINE. GEORGE WILLIS DUNHAM, Utica, N. Y., assignor to Whirldry Corporation, Utica, N. Y., a Corporation of New York. Filed Mar. 25, 1925. Serial No. 18,086. 46 Claims. (Cl. 68—15.)

5. In apparatus of the character disclosed, a tank, a clothes receptacle operating in the tank, a pump including a casing in communication with the tank and an impeller operating in said casing, a gear case below the pump casing, a drive shaft for the clothes receptacle extending from the gear case up through the pump casing and inside the impeller, a water retaining tube extending from the gear case up over said drive shaft, a drive shaft for the impeller connected with the receptacle drive shaft over the top of the water retaining tube, an agitator shaft extending from the gear case up through the receptacle drive shaft and an agitator within the receptacle adapted to be driven by said agitator shaft.



15. In apparatus of the character disclosed, a tank, a clothes receptacle journaled therein, a pump, a conduit extending from the pump and including a riser at the side of the tank, a nozzle slidably engaged in said riser for directing a discharge of the pump back into the receptacle and a bypass from the riser into the tank controlled by said slidable nozzle.

16. In apparatus of the character disclosed, a tank having an opening in the bottom of the same, a pump casing secured over said opening and open to the tank, a column extending from said pump casing up into the tank and a conical strainer removably seated in the tank opening extending from the pump casing upwardly and inwardly to the column.

19. In apparatus of the character disclosed, a rotatably mounted clothes receptacle, a spring buffer for cushioning rotative movements of said receptacle and a pivoted stop on the receptacle adapted to be swung into position for engagement with or clear of the buffer.

20. In washing apparatus, a tank, a clothes receptacle journaled in said tank, drive gearing for the receptacle on the bottom of the tank, a motor for operating said gearings, legs for supporting the tank, a switch for the motor mounted in one of said supporting legs and an operating rod for said switch extending from said leg up the side of the tank.

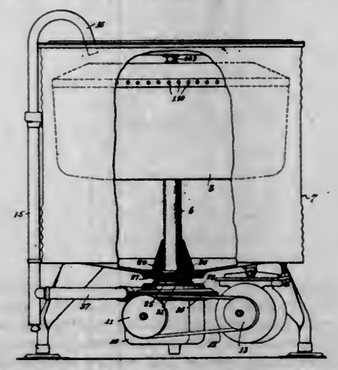
24. In apparatus of the character disclosed, a tank, a clothes receptacle operating in said tank, a circulating conduit extending from the bottom of the tank, up the side of the tank and provided with a discharge nozzle at the upper end of the same and a drain from the upright portion of the conduit into the side of the tank and including a bracket for holding said upright portion to the tank wall and provided with an upstanding rim forming a drainage cup, the tank wall having an opening in line with said drainage cup.

25. In apparatus of the character disclosed, a tank, a clothes receptacle operating in said tank, a pump suspended from the bottom of the tank and subject to vibrations, a riser secured to the side of the tank and piping from said pump to the riser including a section of flexible tubing to prevent the vibrations of the pump from being communicated to said riser.

31. In a laundry machine, a laundry receptacle having a clutch sleeve, a support for said receptacle, a tubular drive shaft within said clutch sleeve, a clutch collar slidably interposed between said clutch sleeve and drive shaft, means whereby, in the upper position of said collar, said receptacle and shaft are coupled and in the lower position of said collar said receptacle and shaft are uncoupled, an agitator, an agitator drive shaft within said tubular shaft, means whereby said agitator may be positioned on said agitator shaft only when said clutch collar is in its lower position.

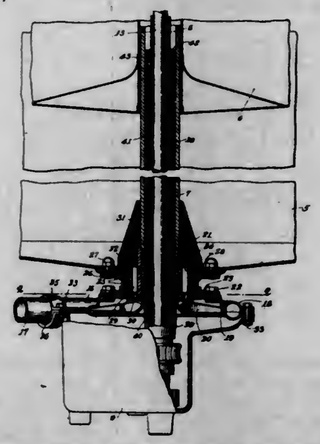
37. In apparatus of the character described, a horizontally disposed rotary pump, a drive shaft extending freely up through the rotary element of the pump, a tubular water well extending from the bottom of the pump casing up around said shaft and a tubular shaft connected with the rotary element of the pump, extending upwardly around the water well and connected with the drive shaft over the top of the water well.

1,785,578. LAUNDRY MACHINE. GEORGE W. DUNHAM, Utica, N. Y., assignor to Whirldry Corporation, Utica, N. Y., a Corporation of New York. Filed May 16, 1925. Serial No. 30,760. 16 Claims. (Cl. 210—63.)



1. In a laundry machine, a tank, a laundry receptacle within the tank, a pedestal for said receptacle rising from and supported by the bottom of the tank and a resilient connection between said pedestal and the tank bottom, means for supporting said receptacle on the top of said pedestal in rotatable relation thereto, and a drive shaft for said receptacle.

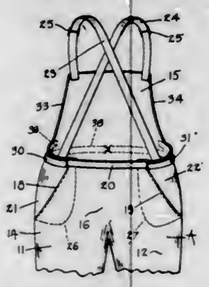
1,785,579. PUMPING MECHANISM FOR WASHING MACHINES. GEORGE W. DUNHAM, New York, N. Y., assignor to Whirldry Corporation, Utica, N. Y., a Corporation of New York. Filed June 18, 1925, Serial No. 37,896. Renewed Sept. 17, 1930. 9 Claims. (Cl. 68—15.)



4. In combination, a rotary pump casing having upper and lower flanged sections, a gear box below said pump

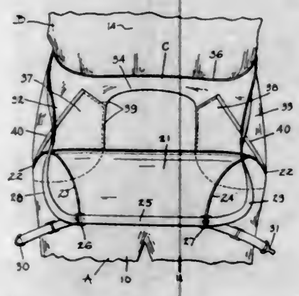
casing having a flange matching the flanges of the casing, fastenings securing said gear box and casing flanges, shafting extending from the gear box up through the pump casing, an impeller within the pump casing concentrically disposed about said shafting, a tubular drive member connected to said shafting at a point above the pump casing and to said impeller and a tubular well extending from the lower section of the pump casing up about the drive shafting inside the tubular drive connection.

1,785,580. OVERALLS. ERICK O. FELLROTH, Minneapolis, Minn., assignor to Martin Brothers Company, Minneapolis, Minn., a Corporation of Minnesota. Filed June 21, 1926. Serial No. 117,385. 10 Claims. (Cl. 2—227.)



1. A garment of the class described, comprising a body portion having a drop seat having free edges along its sides and a waist band at the top thereof, loops secured to the ends of said waist band, a pair of straps passing through said loops, said straps being attached to said body portion forwardly of said drop seat at points above the waist line, and fastening means at the other ends of said straps for securing the same together at the front of the garment, said straps serving to draw the drop seat upwardly to close the same upon being tightened so as to cause said free edges of said drop seat to become taut and to cause said drop seat to fit snugly upon the body of the wearer.

1,785,581. OVERGARMENT. ERICK O. FELLROTH, Minneapolis, Minn., assignor to Martin Brothers Company, Minneapolis, Minn., a Corporation of Minnesota. Filed June 21, 1926, Serial No. 117,386. Renewed Sept. 3, 1929. 5 Claims. (Cl. 2—79.)



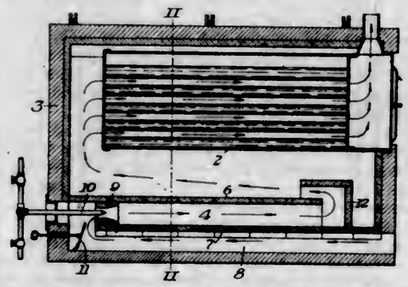
1. A garment of the class described comprising a trouser portion, a jacket portion, the front of said trouser portion and the front of said jacket portion being continuous to partly support said trouser portion through the front of said jacket portion, a band joined to said trouser portion along the sides thereof, immediately below the waistline, and adapted to extend across the hips and the small of the back of a wearer for further supporting said trouser portion, said band being enlarged adjacent its line of joinder to said trouser portion to provide facing flaps, the back of said jacket portion being full and joined at its lower extremity to said band, said trouser portion being formed to provide a drop seat, the marginal portions of said drop seat at the sides and top thereof being adapted to lie upon said band, and means for holding said drop seat in such closed position.

1,785,582. MORTUARY-RECORD CONTAINER. HANS P. HANSEN, Syracuse, N. Y. Filed July 2, 1928. Serial No. 290,008. 1 Claim. (Cl. 40—19.)



In a mortuary record container, outer and inner tubular shells unattached to each other, the interior length and interior diameter of the outer shell being appreciably longer than the corresponding outer dimensions of the inner shell to allow for endwise and radial movement of said inner shell within the outer shell when the shells are assembled for use, the inner shell having both ends provided with removable caps having annular flanges for engaging the inner walls of the outer shell and normally holding the major portions of both shells in spaced relation.

1,785,583. COMBUSTION CHAMBER. CLARENCE E. HAWKE, Metuchen, N. J., assignor to The Carborundum Company, Niagara Falls, N. Y., a Corporation of Pennsylvania. Filed Dec. 27, 1926. Serial No. 157,108. 4 Claims. (Cl. 263—43.)



3. In a fuel burning apparatus, a radiating combustion chamber of the type especially constructed for the dissipation of heat through the walls thereof to an external means for utilizing the heat, a supporting structure therefor, an air circulating passage between the supporting structure and the combustion chamber, said passage being closed against the escape of air around the sides of the combustion chamber, means for inducing a flow of air through the passage, means for conducting such air from the passage into the chamber, and means located entirely outside the chambe rfor utilizing the heat radiated therefrom.

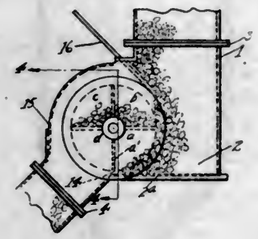
1,785,584. SCREEN FOR CASEMENT WINDOWS. HENRY HIGGIN, Newport, Ky., assignor to The Higgin Manufacturing Company, Newport, Ky., a Corporation of West Virginia. Filed Sept. 20, 1926. Serial No. 136,684. 5 Claims. (Cl. 156—14.)



1. In combination with a vertical edge portion of a horizontally slidable screen, means operatively connected with said edge extending beyond said edge of said screen, said means comprising a channel portion separately secured to said screen, and a strip of flexible material mounted within said channel.

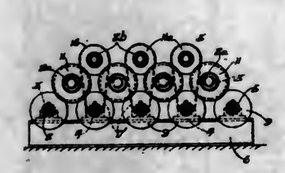
CARNEGIE LIBRARY OF ATLANTA

1,785,585. HOPPER FEEDING DEVICE. ERNEST H. HUMBERSTONE and HARRY R. WELCH, Columbus, Ohio, assignors to The Marble Cliff Quarries Company, Columbus, Ohio, a Corporation of Ohio. Filed Dec. 23, 1926. Serial No. 156,701. 1 Claim. (Cl. 214—35.)



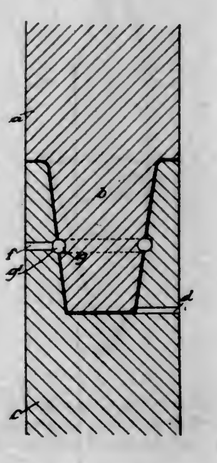
A feeding device comprising a casing with offset side walls for seating the sides of a feeding device, and a feeding device rotatably mounted in said casing, said device having disc-like sides with a hub extending across between said sides, and vanes extending radially from said hub subdividing said device into feeding compartments, said disc-like sides extending into said offset side walls, and said casing forming a seal against the outer edges of vanes in the lowermost position thereof, and having clearance at the uppermost position of the vanes, and a plate extending diagonally into said casing tangentially to the periphery of said disc-like sides for diverting material from a direct gravity drop into said compartments, said plate being extendible to carry material within said casing and into a compartment therein having a bottom extending substantially in horizontal alignment with the lowermost portion of said feeding device.

1,785,586. MANUFACTURE OR LINING OF PIPES BY CENTRIFUGAL ACTION. EDWARD SHOTTON HUME, Perth, Western Australia, Australia, assignor to Hume Steel Limited, Melbourne, Australia. Filed Dec. 27, 1928, Serial No. 328,667, and in Australia Jan. 10, 1928. 8 Claims. (Cl. 25—30.)



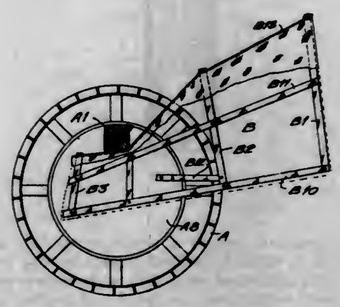
1. The method of manufacturing or lining pipes by centrifugal action which consists in arranging a series of rotary casings in a plurality of superposed tiers whereby the upper tier or tiers of said casings are supported by and receive rotary motion from the casings of the tier or tiers beneath, inserting the pipes or pipe moulds to be lined with cementitious or plastic material lengthwise within said casings, detachably securing said pipes or moulds concentrically within said casings, rotating the casings of the superposed tiers by frictional contact with adjacent casings or rings thereon, and withdrawing said pipes or moulds from said casings without disturbing the tier arrangement of the latter after the centrifugal moulding operation.

1,785,587. ELECTRODE JOINT. CLEMENS KUHLMANN, Ratibor, Germany, assignor to Siemens Planiawerke Aktiengesellschaft für Kohlefabrikate, Berlin-Lichtenberg, Germany, a Corporation of Germany. Filed June 7, 1928, Serial No. 283,727, and in Germany July 2, 1927. 1 Claim. (Cl. 266—1.5.)



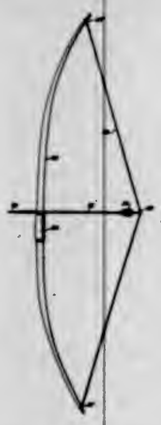
For carrying out the method of uniting the stump of an old electrode to a new electrode in electric furnaces requiring a continuous feed of the electrodes into the furnace to make up for the electrode material consumed in the furnace, the combination of carbon electrodes having a spigot at one end and a socket at the other end forming a counterpart of said spigot and grooves in the walls of said socket and spigot, with cement interposed between said socket and spigot so as to cover the entire engaging surfaces of the spigot and socket and cement passed into said grooves, as and for the purposes set forth.

1,785,588. PLANT-DIGGING MACHINE. LEE MCCLAIN, Knoxville, Tenn. Filed Feb. 26, 1929. Serial No. 342,870. 16 Claims. (Cl. 55—18.)



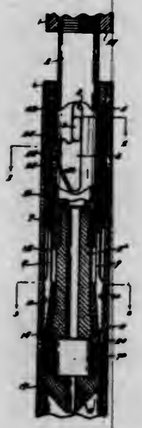
1. In a plant digging machine, in combination, a tractor having a transverse under structure, and a funnel-form guiding structure mounted longitudinally of the tractor with its smaller end directed rearward and extending beneath and rearwardly beyond the transverse under structure.

1,785,589. STREAM-LINE ARROW AND STRING-ENGAGING MEANS THEREFOR. EARL G. MEAD, Cleveland Heights, Ohio. Filed Mar. 17, 1928. Serial No. 262,396. 12 Claims. (Cl. 273—106.5.)



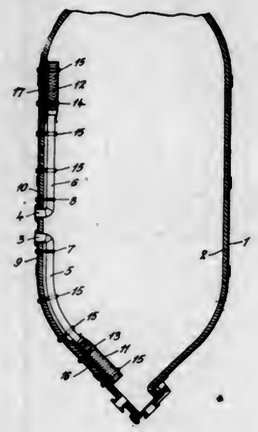
1. The combination of a stream-line arrow and a bow-string provided with an added arrow seat symmetrically disposed with respect to the axis of the bow-string.

1,785,590. AUTOMATIC RESETTING SPEAR. WILLIAM J. MILLER, Sulphur, La. Filed Mar. 1, 1930. Serial No. 432,546. 8 Claims. (Cl. 294—96.)



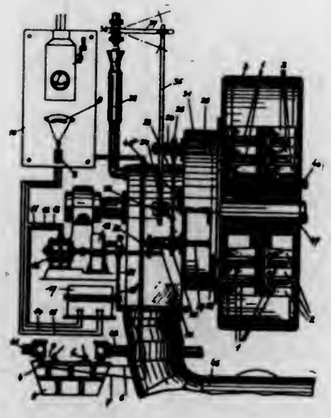
1. An automatic resetting spear comprising an elongated shank, a tapered mandrel carried by and surrounding the lower portion of the shank, a slip sleeve surrounding the shank and having its lower end portion provided with gripping arms, the tapered mandrel engaging said gripping arms from within, said slip sleeve having a slot disposed along the upper portion thereof, said slot having its lower portion transversely enlarged in one direction, the lower portion of the edge wall of the slot opposed to the enlarged portion being inclined toward the lower end of the slot, said inclined wall being entirely to one side of the slot, said shank having a part working in the slot of the sleeve.

1,785,591. DIGESTER FOR SULPHITE WOOD PULP. EINAR MORTERUD, Torderod, near Moss, Norway. Filed Feb. 26, 1929, Serial No. 342,743, and in Norway Jan. 25, 1929. 11 Claims. (Cl. 92—7.)



1. A digester for sulphite wood pulp comprising a brick-lined sheet iron shell having intake and outlet openings for circulating heated digesting liquor, characterized by that the said intake and outlet openings which are located adjacent each other near the middle of the digester communicate with circulation pipes located inside the digester, each comprising at least two sections loosely fitted into each other and fastened to the digester shell at one point only by a tight fastening clamp secured to the shell of the digester.

1,785,592. ELECTRIC GAS PURIFIER. HEINRICH FERDINAND JOHANN NOLZE, Kaiserslauten, Pfalz, Germany. Filed May 24, 1926. Serial No. 111,433. 1 Claim. (Cl. 261—90.)



An apparatus for freeing gas from dust and steam like impurities, comprising in combination with an electric gas purifier in which an electric current of high voltage jumps over from one electrode to another electrode the gas being conducted through the interval between said electrodes, an exhauster for conveying the purified gas from said purifier, baffle surfaces in said exhauster, means for pushing said baffle surfaces into or withdrawing the same from said exhauster in accordance with the temperature of the gas coming from the electric purifier, spraying nozzles in said exhauster for injecting water, and means for increasing the quantity of injected water when the electric precipitator is at a high temperature and for reducing the same at low temperature.

1,785,593. APPARATUS FOR USE IN LOADING MINE CARS. JAMES A. PAISLEY, Cleveland, Ohio, assignor to The Valley Camp Coal Company, Cleveland, Ohio, a Corporation of Pennsylvania. Filed May 28, 1929. Serial No. 366,654. 5 Claims. (Cl. 198—126.)



5. In an apparatus for loading cars, the combination with a longitudinal conveyor and means thereon for loading cars arranged below said conveyor, of a pair of lifting jacks arranged adjacent each end of the conveyor, a horizontal supporting member extending through a portion of the conveyor between each pair of jacks, sleeves connected with the movable portion of each jack and slidable on said member, and means for securing said sleeves in adjusted positions on said members.

1,785,594. METHOD OF AND APPARATUS FOR HANDLING GRANULAR MATERIAL. JAMES A. PAISLEY, Cleveland, Ohio, assignor to The Valley Camp Coal Company, Cleveland, Ohio, a Corporation of Pennsylvania. Filed July 17, 1929. Serial No. 379,009. 7 Claims. (Cl. 198—7.)

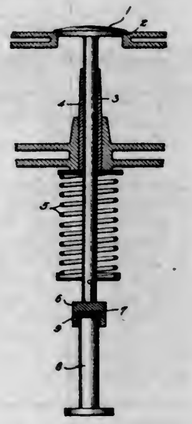
3. Apparatus for loading cars comprising a horizontal conveyor having distributing means for loading cars therefrom, driving means for said conveyor, a loading conveyor comprising an inclined and a horizontal portion the latter having its discharge end overlying the receiving end of the first-named conveyor, driving gearing therefor, a motor supported from the side of the frame of said conveyor, and having its shaft operatively connected with a shaft of said gearing, a flexible shaft arranged to extend from the driving gearing of the loading conveyor to the rear end of the loading conveyor, and a detachable coupling for connecting the end of said flexible shaft with the driving means for the first-named conveyor.

1,785,595. MOUTHPIECE FOR PIPES AND CIGAR HOLDERS. EVARISTO PAREDES, El Paso, Tex. Filed Sept. 3, 1927. Serial No. 217,347. 1 Claim. (Cl. 131—12.)



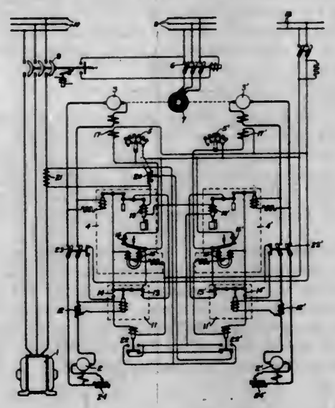
A mouthpiece for pipes or the like, comprising a nipple composed of a bulbous body of stiff material having its forward end open and contracted, and having side orifices, a separate elastic neck member having its forward end fitted over the tip of the stem of the pipe, the rear end of the neck member being fitted over the contracted open forward end of the bulbous body, an annular outwardly pressed bead formed in the contracted forward end portion of the bulbous body, and a removable strainer disk for disposition within said bead and adapted to be disposed against the tip of the stem of the pipe.

1,785,596. ADJUSTABLE SHIM-HOLDER CAP. SVEND PETERSEN, Askov, Minn. Filed Oct. 2, 1929. Serial No. 396,744. 3 Claims. (Cl. 123—90.)



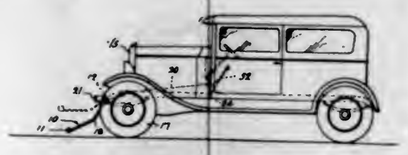
1. A shim holder end cap for push rods, comprising a cap adapted to fit upon the end of a push rod, said cap having an opening through which shims may be introduced between the cap and rod end without disconnecting the rod and cap, said opening being displaced from the plane of contact of the cap and push rod terminal to prevent displacement and loss of the shims.

1,785,597. MOTOR-CONTROL SYSTEM. KONRAD RUPRECHT, Berlin, and RICHARD DIETZE, Pankow, Germany, assignors to General Electric Company, a Corporation of New York. Filed Dec. 22, 1927, Serial No. 241,908, and in Germany Dec. 31, 1926. 5 Claims. (Cl. 172—239.)



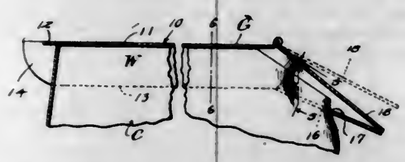
3. The combination with a plurality of grinders, a common driving motor therefor, a separate feed mechanism for each of said grinders, a separate electric motor for operating each of said feed mechanisms, a separate electric generator provided with a field winding for supplying power to each of said feed motors, means responsive to the load on said driving motor for regulating the field windings of said generators so as to maintain a predetermined load on said driving motor, and means responsive to the current supplied to each of said feed motors for regulating the field winding of its respective generator.

1,785,598. SAFETY MEANS FOR MOTOR VEHICLES. GIUSEPPE SANTANJELO, New York, N. Y. Filed May 31, 1930. Serial No. 458,671. 4 Claims. (Cl. 293—44.)



1. A vehicle safety fender including a plate structure hingedly mounted on the front end of an automobile, a resilient buffer on the front portion of said structure, a shaft mounted on the upwardly inclined pedal section of the floor board of the automobile, a plurality of drums fixedly carried by said shaft, a plurality of cables for raising and lowering said fender, said cables being secured at one end to the fender and at their opposite ends to said drums, a ratchet wheel carried by said shaft, a dog to engage said ratchet and a lever to actuate said dog for raising said plate member.

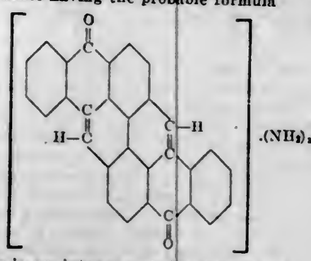
1,785,599. COMBINED OPENER AND CLOSURE FOR PAPER MILK CONTAINERS. JOSEPH J. SCHMERLER, New York, N. Y. Filed Feb. 28, 1929. Serial No. 343,375. 10 Claims. (Cl. 229—1.5.)



1. In a device for the purpose described, a pair of guides adapted to receive therebetween the walls of a container a portion of which is to be severed, a knife associated with said walls for severing said portion, and means associated with said guide and knife for clampingly receiving the upper edge of the container when the severing operation is completed.

1,785,600. MANUFACTURE OF PYRANTHRONE DERIVATIVES. ARNOLD SHEPHERDSON and SIDNEY THORNLEY, Blackley, Manchester, England, assignors to British Dyestuffs Corporation Limited, Manchester, England. Filed Sept. 29, 1927, Serial No. 222,932, and in Great Britain Oct. 3, 1926. 5 Claims. (Cl. 260—61.)

4. As a new composition of matter useful for dyeing and as an intermediate in the production of acylated dyestuffs, a dark colored substance produced by the reaction of pyranthrone with hydroxyl amine, said substance dyeing cotton from a hydrosulphite vat in deep brown shades changed in shade by cold sodium hypochlorite solution, said substance having the probable formula



wherein x is an integer probably less than 4.

1,785,601. MANUFACTURE OF PYRANTHRONE DERIVATIVES. ARNOLD SHEPHERDSON and SIDNEY THORNLEY, Blackley, Manchester, England, assignors to British Dyestuffs Corporation Limited, Manchester, England. Original application filed Sept. 29, 1927, Serial No. 222,932, and in Great Britain Oct. 8, 1926. Divided and this application filed May 9, 1929. Serial No. 361,844. 6 Claims. (Cl. 260—61.)

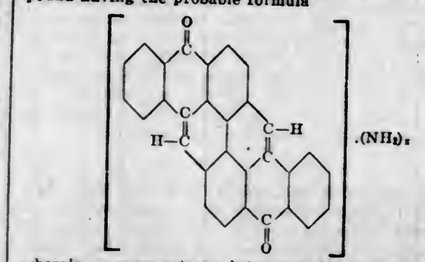
5. In the manufacture of acylated vat dyestuffs from amino pyranthrone compounds of the class consisting of pyranthrone and halogenated pyranthrones, the process which comprises reacting an acylating agent having the probable formula



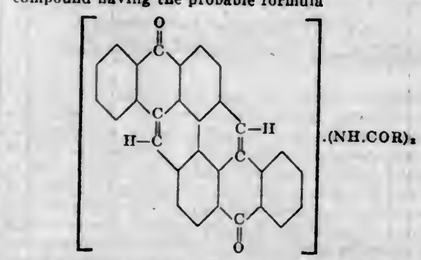
wherein



represents an acyl group with an amino pyranthrone compound having the probable formula



wherein x represents an integer probably less than 4, to convert the said amino pyranthrone into an acyl amino compound having the probable formula



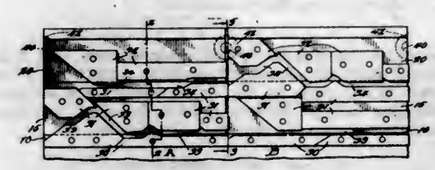
wherein x represents an integer probably less than 4 and —COR represents an acyl group.

1,785,602. STREET MARKER. WARREN S. SHERMAN, Oklahoma City, Okla. Filed Mar. 8, 1928. Serial No. 260,175. 2 Claims. (Cl. 40—125.)



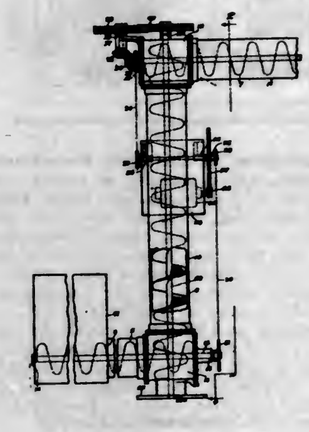
1. In a street marker the combination with a curb having the upright street facing surface thereof provided with a pocket spaced from and entirely below the top of said curb, the pocket having the counter facing surfaces thereof relatively divergent from the outer face of the curbing to the bottom of the pocket, a slab dove-tailed in snug fitting relation within said pocket, said slab having a countersunk face, said slab inwardly of the countersunk face having pockets therein, the counter facing surfaces of said last mentioned pockets being relatively divergent from the countersunk face, and contrasting characters snug fitting and dove-tailed permanently in said pockets of the slab with the faces of said characters exposed in flush relation on the countersunk face of the slab.

1,785,603. SEGMENTAL CAM RING. HARRY SWINGLEHURST, Orange, N. J., assignor to Scott and Williams, Inc., New York, N. Y., a Corporation of Massachusetts. Filed Oct. 7, 1929. Serial No. 398,019. 8 Claims. (Cl. 66—57.)



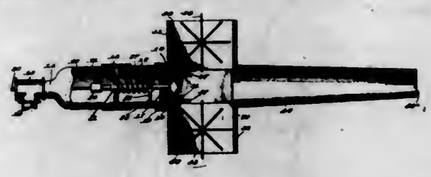
1. A needle cam ring segment comprising a base section with a rib presenting an inner face, an intermediate section resting against the outer face of said rib and presenting a face flush with the inner face thereof, and a third section resting against the outer face of the intermediate section and presenting a face flush with the inner face of the rib, said sections being adapted to support needle cams, and means for securing said intermediate and said third section to the base section.

1,785,604. MEANS FOR ELEVATING PULVERULENT MATERIALS. THEODORE J. TELLEFSEN, Cincinnati, Ohio, assignor to The J. H. Day Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 9, 1928. Serial No. 260,426. 5 Claims. (Cl. 198—213.)



1. In an elevating device for powdered substances the combination of an upright housing having upper and lower ports, an elevating screw rotatable in the upright housing and extending beyond said ports, a tubular second screw housing having a port in communication with the lower port of the first housing, a feed screw in the second housing for feeding powdered substance to the lower portion of the elevating screw, the screws being disposed transversely of one another in different planes with their peripheries in close proximity.

1,785,605. BURNER. DENNIS H. TURNER, Seminole, Okla. Filed Oct. 27, 1928. Serial No. 315,474. 10 Claims. (Cl. 158—99.)

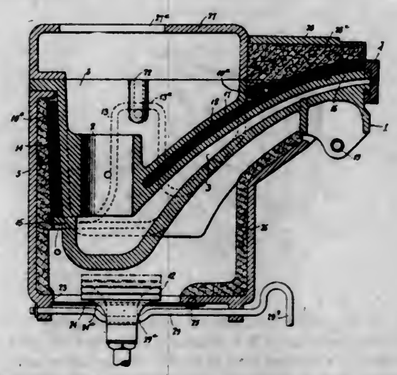


1. A burner comprising a casing, a partition dividing the casing into a gas chamber and a mixing chamber, said partition having a plurality of restricted passages for placing the compartments into communication with each other, fans mounted in the mixing chamber, a pipe in communication with a source of steam and provided with nozzles adapted to impinge steam against the fans for causing rotation of the fans, the mixing chamber adjacent the fans being open to the atmosphere whereby said fans will draw in air and mix it with the gas from the gas chamber, the gas chamber being in communication with a source of gas.

1,785,606. PRELIMINARY TREATMENT OF METAL PLATES FOR THE PRODUCTION OF PRINTING PLATES. FRIEDRICH ULLMANN, Zwickau, Germany. Filed Mar. 7, 1927, Serial No. 173,615, and in Germany Mar. 10, 1926. 1 Claim. (Cl. 91—69.)

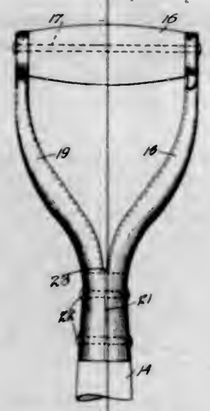
A process for the preparatory treatment of zinc blocks for the purpose of applying light sensitive layers containing chrome, consisting in treating the zinc plates with an aluminium chloride solution.

1,785,607. METAL POT FOR LINE-CASTING MACHINES. LE ROY W. WILLIS, Brooklyn, N. Y., assignor to Intertype Corporation, New York, N. Y., a Corporation of New York. Filed July 5, 1929. Serial No. 376,173. 10 Claims. (Cl. 22—70.)



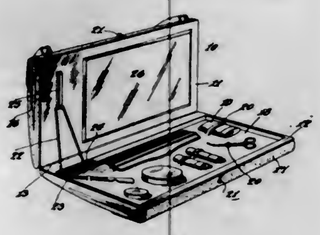
1. A metal pot for line casting machines comprising a main reservoir, a metal discharging cylinder therein, a metal injecting throat leading from said cylinder through a portion of such reservoir and to the exterior thereof, the entire upper wall of said throat, including a portion thereof within the reservoir, being relatively thin and having a heating surface on its upper side which extends from said cylinder to the discharge mouth of the throat, and electric heating means mounted upon the upper side of said heating surface and extending throughout the length thereof.

1,785,608. TOOL HANDLE. HENRY LEE BASSETT, Columbus, Ind., assignor to Columbus Handle and Tool Corporation, Columbus, Ind., a Corporation of Indiana. Filed Dec. 13, 1929. Serial No. 413,925. 3 Claims. (Cl. 294—57.)



1. A Y-handle for shovels and such tools comprising arms of sheet metal bent into tubular form with the inner edges of each arm abutting and with the lower ends of each arm formed to provide a half-socket which lower ends of said arms mate at their lower edges and are welded together thus providing a socket for receiving the tool handle, a shouldered edge being provided at the upper end of the socket where the mating edges meet, and the upper ends of said arms being shaped to receive the handgrip, substantially as set forth.

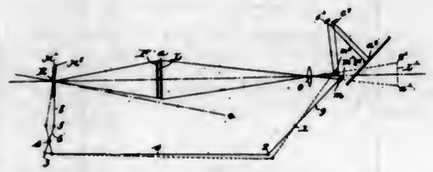
1,785,609. LADY'S HAND BAG. GEORGE BAUMANN, Brooklyn, N. Y. Filed Sept. 8, 1928. Serial No. 304,679. 2 Claims. (Cl. 150—46.)



1. In a lady's handbag a pair of hingedly connected sections, and means for securing said sections in a closed position, a V-shaped bail hingedly connected to one of said sections, and a guide on the other of said sections with which the bight portion of said bail slidably engages for supporting one of said sections in an open position with respect to the other section.

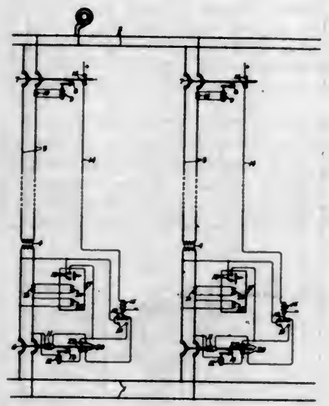
1,785,610. OPTICAL RECORDING DEVICE FOR TELEGRAPHIC SIGNALING. EDOUARD BELIN, Paris, France. Filed Nov. 30, 1928, Serial No. 322,841, and in France Dec. 22, 1927. 2 Claims. (Cl. 178—15.)

1. Apparatus for translating telegraphic code characters optically from a movable film having said code characters in the form of light transparent spots thereon, comprising a source of light, an oscillating mirror for reflecting the rays from said source of light upon said film, a linear element located behind said film and bearing a row or line of signs, a sensitized surface for selectively record-



ing said signs, and an optical relay between said linear element and said sensitized surface, comprising a lens device in the path of the emitted beam, and a second oscillating mirror connected with the first mentioned oscillating mirror for movement in unison.

1,785,611. CONTROL SYSTEM. DAVID K. BLAKE, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 26, 1927, Serial No. 208,647. Renewed May 2, 1930. 4 Claims. (Cl. 171—97.)

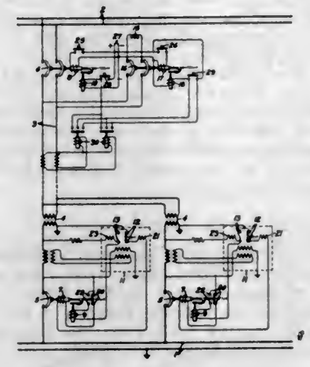


1. In combination, an alternating current supply circuit, a network, and a plurality of feeders connecting said circuit to said network, each feeder including a transformer, switching means for connecting the transformer to the supply circuit, overload responsive means for opening said switching means, other switching means for connecting the transformer to said network, reverse power responsive means for effecting the opening of said other switching means, a pilot wire circuit, electroresponsive means in said pilot wire circuit for controlling the opening and closing of said other switching means, and contacts in said pilot wire circuit arranged to be actuated in response to the opening and closing of the first mentioned switching means in the feeder to effect the operation of the electroresponsive means.

1,785,612. SYSTEM OF ELECTRIC DISTRIBUTION. DAVID K. BLAKE, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 23, 1927. Serial No. 214,951. 11 Claims. (Cl. 175—294.)

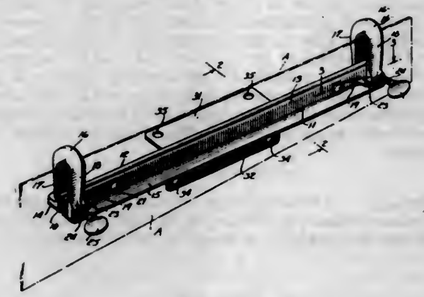
1. In combination, two electric circuits, switching means for connecting said circuits together, power directional means for controlling the opening and closing of said switching means, and means responsive to the move-

ment of said power directional means to its opening position while a certain one of said circuits is energized



for maintaining said power directional means in its opening position as long as said one of said circuits is energized.

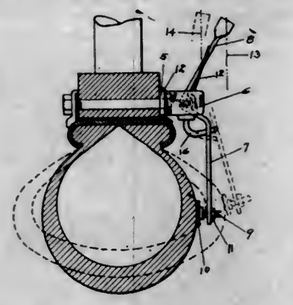
1,785,613. SAW VISE. JAMES BLUMER, Norwalk, Conn. Filed Oct. 20, 1928, Serial No. 313,791. 2 Claims. (Cl. 76—78.)



1. In a saw vise, fixed and movable jaws constructed of angle iron to provide vertically disposed parallel flanges and horizontal flanges at the lower edge of each vertical flange projecting respectively in opposite directions, inverted U-shaped brackets rigidly secured to the fixed jaw and straddling the vertical flanges of both jaws, a flexible resilient U-shaped spring carried by each bracket and secured to the movable jaw, a stud projecting outwardly from the vertical flange of the movable jaw and extending between the legs of the U-shaped spring and means extending through the free ends of the bracket, adapted to coact with the movable jaw for advancing the same toward the fixed jaw.

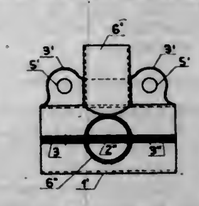
1,785,614. INDICATOR. CHARLES A. BOYER, Tiggard, Oreg. Filed May 8, 1929. Serial No. 361,348. 2 Claims. (Cl. 200—58.)

1. In an indicator for pneumatic tires: a bracket adapted to be mounted upon the wheel; a lever pivoted upon said bracket and having an arm adapted to contact with the tire; a second arm upon said lever extending in a substantially opposite direction to said former arm; spring means for retaining said former arm in contact with the tire; and a spring mounted upon said bracket and engaging an orifice in the arm contacting with the tire, from which orifice said spring is removed by move-



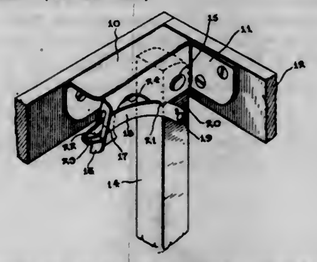
ment of said arm and caused to bear against said arm to retain the same in position to operate an electric switch.

1,785,615. FUSELAGE FITTING. GIANNI CAPRONI, Rome, Italy. Filed Dec. 5, 1929, Serial No. 411,942, and in Italy Dec. 10, 1928. 9 Claims. (Cl. 244—31.)



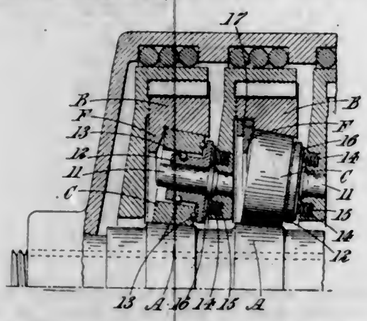
1. Attachment for the connection of the longitudinal, transversal and diagonal elements of the tubular structures used in aeronautical constructions, consisting in a main sleeve obtained by bending one or more sheet metal plates suitably, cut out, folded and joined together so as to form a cylindrical surface provided with radial ribs having anchoring lugs for the diagonal elements, on one or more of the said radial ribs being arranged connecting tubes notched as far as to reach a certain extent along diametrically opposite generating lines, in order to leave a free passage for the ribs, and cut out at one end according to their intersection with the main sleeve with which they are connected.

1,785,616. TABLE-LEG LATCH. GEORGE J. CORPORON, Portland, Me. Filed Jan. 18, 1929. Serial No. 333,299. 9 Claims. (Cl. 45—11.)



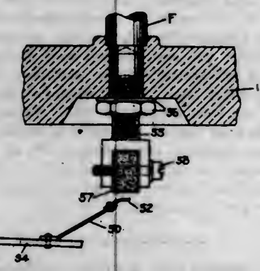
2. A device for the purpose indicated comprising in combination with a table having a swinging leg, a latch pivotally mounted on the leg, and a keeper fixed with reference to the table, the latch having spaced seats for engagement with the keeper respectively in the extended and folded positions of the leg, the seats being disposed on opposite sides of the latch and the latter being yieldingly impelled in opposite positions depending on whether the leg is in extended or folded position.

1,785,617. ROLLER BEARING. FREDERICK CAMERON COWBURN, Gosport, England. Filed Nov. 5, 1928, Serial No. 317,257, and in Great Britain Nov. 25, 1927. 6 Claims. (Cl. 308—174.)



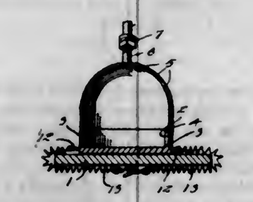
1. The combination with roller bearings and the like of the kind herein referred to, and wherein the outer race and the rollers are capable of movement longitudinally together in relation to the inner race, of an abutment on the movable outer race to contact with the broad ends of the rollers and means to apply end thrust to the rollers in a direction to force their broad ends into contact with the abutment.

1,785,618. COPPER-CARBON CONTACT. SALISBURY M. DAY, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y., a Corporation of New York. Original application filed Apr. 9, 1920, Serial No. 372,585. Divided and this application filed Sept. 22, 1926. Serial No. 137,137. 5 Claims. (Cl. 200—166.)



1. In a relay adapted for railway signaling systems, a contact element of a highly conductive non-corrosive metal, and a cooperating contact element of hard dense carbon of a crystalline structure impregnated with approximately ten per cent by volume of pure copper.

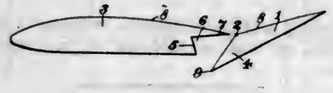
1,785,619. GARMENT AND FUR STEAMER. HENRY P. EASTON, Jr., Nutley, N. J. Filed July 9, 1929. Serial No. 377,018. 5 Claims. (Cl. 68—9.)



1. A steaming device of the character described comprising an elongated casing of substantially parabolic cross sectional design having an open bottom, a tray having upstanding walls inset from the edges of the bottom thereof, said walls being adapted to extend into the casing, means for introducing steam into the casing, and means for drawing-off condensed steam from the tray, said casing wall from one end throughout the major portion thereof having steam outlet apertures, said steam introducing means being adjacent the other end.

3. In a steaming device of the character described including a base, means for securing said base to a supporting table structure, comprising eye members secured to opposite side edges of the base, and spring members secured at one end to certain of said eyes and adapted to be passed beneath the supporting structure and connected at their other ends to adjacent eyes.

1,785,620. CONTROL SURFACE FOR AIRCRAFT, SUBMERSIBLES, AND THE LIKE. LESLIE GEORGE FRISE, Bristol, England, assignor to The Bristol Aeroplane Company, Limited, Bristol, England, a British Company. Filed Oct. 15, 1928, Serial No. 312,684, and in Great Britain Oct. 26, 1927. 2 Claims. (Cl. 244—29.)



1. In an aeroplane, the combination with a fixed aerofoil, of an adjustable trailing aileron which is pivoted about an axis situated rearwardly from the leading edge of the aileron and which is so shaped that the leading edge of the aileron is of less thickness than the adjacent trailing edge of the aerofoil, and that in the neutral position of the aileron, its lower surface is continuous with the lower surface of the aerofoil, and that in the upward position of the aileron, an unobstructed passage is provided between the aileron and the aerofoil, and means extending from the trailing edge of the aerofoil providing a continuous upper surface to the combined aerofoil and aileron.

1,785,621. ATTACHABLE RADIATING ELEMENT. JOSEPH GABOR, New York, N. Y. Filed Mar. 10, 1930. Serial No. 434,668. 1 Claim. (Cl. 257—139.)



A removable heat radiating attachment for a radiator having spaced steam pipes, comprising U-shaped heat radiating members, the respective legs of said members including parallel spaced flanges, the bight portions of said members including also parallel spaced flanges, which latter are integral with said first flanges, the respective legs of said members embracing opposite sides of the spaced steam pipe portions, and the bight portions of said members adapted to rest on one of the steam pipe portions.

1,785,622. COTTER PIN. ERNEST G. GOODWIN, Pelham, N. Y., assignor to Standard Coupler Company, New York, N. Y., a Corporation of New Jersey. Filed May 11, 1929. Serial No. 362,241. 8 Claims. (Cl. 74—8.)



1. A retaining device of cotter pin stock consisting of two legs and an eye, characterized by the projection of one leg beyond the other and said projected end being twisted about the axis of the pin.

1,785,623. BATHING SHOE. ELSA GORJAN, Zagreb, Yugoslavia. Filed Feb. 19, 1929, Serial No. 341,141, and in Austria Mar. 22, 1928. 4 Claims. (Cl. 36—1.)



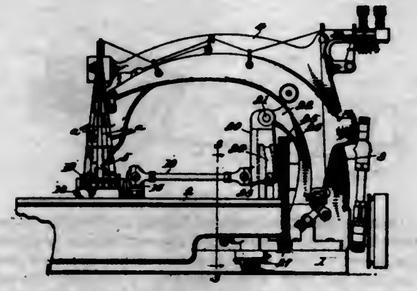
1. A bathing shoe, comprising in combination a sole and heel formed as a unit in cork, a cover of fabric entirely surrounding the same, a fabric upper, a cork toe stiffener and a cork heel stiffener, each sewn into or embedded in the upper at the toe and heel end respectively and means for uniting said upper and said sole and heel.

1,785,624. TOOTH CLAMP. LUDWIG HALLER, Stuttgart, Germany. Filed May 12, 1928, Serial No. 277,325, and in Germany Sept. 1, 1927. 1 Claim. (Cl. 32—20.)



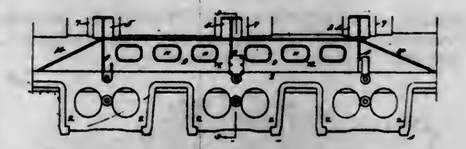
A tooth clamp comprising a bow, two parallel arms extending on the inner side and on the outer side along a row of teeth, bent extensions of said bow holding said arms on the clamp bow in the direction of the tooth roots, said arms adapted to hold an elastic tying-off element of rubber thread for pressing back the gum between two tooth-crowns.

1,785,625. RUG-TUFTING MACHINE. NATHAN E. HANSON, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed July 31, 1928. Serial No. 296,522. 9 Claims. (Cl. 112—79.)



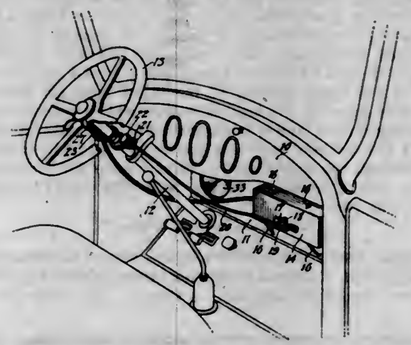
1. A rug tufting machine comprising a feeding mechanism, a thread carrying needle, a complemental stitch forming mechanism cooperating therewith, a forming plate extending in the direction of feed over which the needle thread is laid between consecutive stitches, means for shifting said plate across the path of the needle for each reciprocation thereof, and a cutter associated with said plate for cutting the threads laid over the plate.

1,785,626. LOCOMOTIVE-BOILER SUPPORT. HENRY K. HARWICK, Darby, Pa. Filed Nov. 9, 1929. Serial No. 405,994. 4 Claims. (Cl. 105—172.)



1. The combination in a locomotive, of a main frame; and a series of boiler-supporting members made integral with the main frame; and webs connecting the several boiler-supporting members, said webs being made integral with the frame and the supporting members.

1,785,627. RADIO. JOSEPH J. HAZARD, Saratoga Springs, N. Y. Filed Aug. 9, 1929. Serial No. 384,728. 9 Claims. (Cl. 250—14.)



1. In a device of the character described, the combination of a motor vehicle, having an apertured motor board, a radio receiving apparatus, and a dynamic speaker for said apparatus, said speaker being mounted on the motor board and positioned to speak through the aperture therein and utilizing the board as a baffle board.

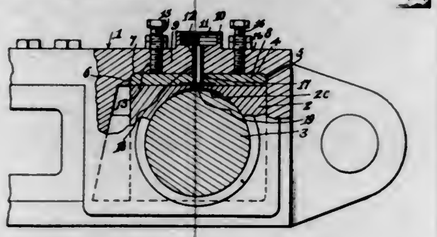
1,785,628. GRIP FOR ELECTRIC CABLES. PAUL FRIEDRICH HELLERMANN, Hamburg, Germany. Filed May 25, 1928, Serial No. 280,621, and in Germany May 31, 1927. 1 Claim. (Cl. 173—322.)



In combination, an insulated multi-wire electrical cable, and a member adapted to be retained by a connector, said

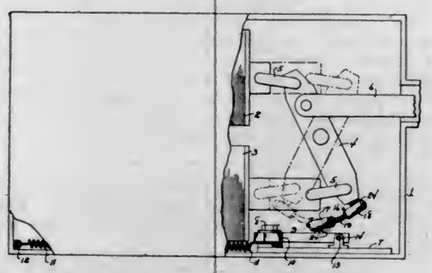
member having a bore through which said cable is passed, with the free ends of the wires of said cable extending beyond one end of said member, said cable being formed with strands of its insulation separated therefrom to a point substantially where it enters said member, but still left integral with the insulation of said cable, said member being formed at its ends with shoulders forming abutments about which said strands are wrapped to unite said member and said cable, one end of said member being formed with projecting lugs for holding said strands in place.

1,785,629. TAKE-UP DEVICE. WALTER P. HUNTER, Vancouver, Wash. Filed May 23, 1929. Serial No. 365,484. 4 Claims. (Cl. 308—68.)



1. A take-up device for bearing brasses comprising an inwardly shiftable gib adapted to be slidably seated in the inner face of the upper portion of the strap of a connecting rod for abutment against the bearing brasses, combined adjusting and retaining elements bearing against the gib at spaced points and adapted to be carried by the upper portion of the strap, said gib having that face opposing the brasses formed with a transversely extending groove, and a lubricant conducting tube carried by the gib, opening into said groove and slidably extending through the upper portion of the strap for communication with a lubricant supply, said tube bodily carried with said gib.

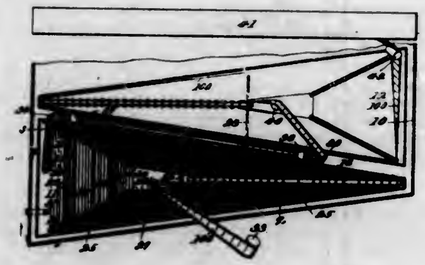
1,785,630. SWITCH-POINT LOCK. FRED ISAACSON and WALTER M. CAUGHLAN, Denver, Colo. Filed Apr. 14, 1930. Serial No. 444,263. 3 Claims. (Cl. 246—318.)



1. In combination with a switch point operating mechanism having an operating arm, a pivotally mounted bell crank lever, tension means connected to one end of the bell crank lever, a link pivotally connected to the other end of the bell crank lever and to the arm and capable of adjustment as to length and adapted to permit a limited movement of the bell crank lever relative to said arm.

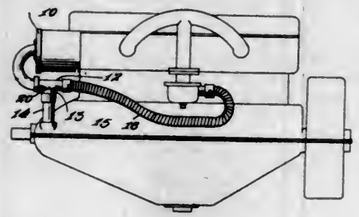
1,785,631. APPARATUS FOR PROCESSING FILM. HUGH V. JAMIESON, Dallas, Tex. Filed June 11, 1927. Serial No. 198,165. 9 Claims. (Cl. 95—94.)

1. In a film treating apparatus, a mechanism for effecting travel of a film tape composed of a plurality of driven and idle rotatable members over which the film tape is trained, and a positively driven sprocket wheel having positive engagement with the delivery end portion of the tape, said sprocket wheel of less diameter than the diameters of the driven rotatable members and adapted to



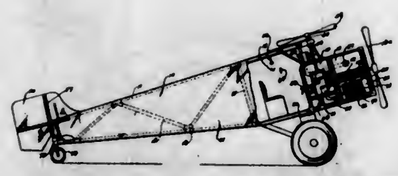
move the tape at a slower speed than it is moved by the driven rotatable members, whereby the tape is maintained under tension and in frictional engagement with said driven members for causing the latter to impart motion thereto and progress the film through the tray.

1,785,632. CARBURETOR DUST CLEANER. STANLEY P. KLIMA, Odessa, Wash. Filed July 17, 1929. Serial No. 379,048. 1 Claim. (Cl. 123—119.)



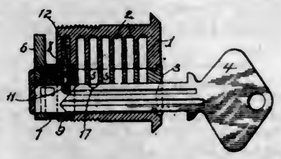
The combination of an internal combustion engine having an air filter, of an elbow for the filter projecting from the discharge end thereof, of a T-coupling carried by and supported upon the breather pipe of the engine having connection at its ends with the remaining end of the elbow and the air inlet of the engine carburetor, and a sleeve having an obliquely disposed top arranged within the T-coupling to create suction through the breather pipe whereby lubricant fumes may be drawn through the flexible conduit.

1,785,633. AIRCRAFT. STEFAN F. KUMOR, Chicago, Ill. Filed Mar. 20, 1929. Serial No. 348,610. 4 Claims. (Cl. 244—25.)



1. In an aircraft, a fuselage having a plurality of compartments at the forward end thereof, steam generating means in one of said compartments, steam operated means in another of said compartments, a slidably mounted shaft, means for detachably connecting said shaft to said steam operated means, and a propeller on said shaft and operable therewith.

1,785,634. CYLINDER LOCK. ALFRED LAWRENCE, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed May 27, 1927. Serial No. 194,717. 10 Claims. (Cl. 70—93.)

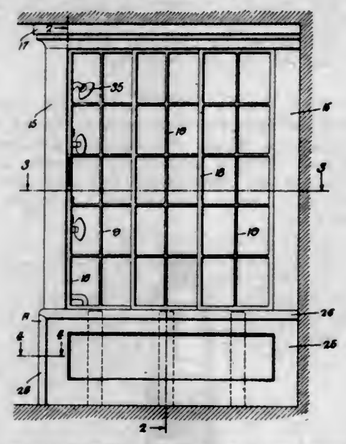


1. In a pin-tumbler lock, a key plug having a groove leading from a pin-tumbler bore, a pin-tumbler and driver in said bore, said tumbler, driver, and groove being adapted to confine the movement of the plug to the length of said groove.

1,785,635. METHOD OF MANUFACTURE OF PHOTOGRAPHIC PICTURES ON CHROMATED GEL-LAYERS. NIKOLAUS LEBEDENKO, Berlin-Wilmersdorf, Germany. Filed Apr. 28, 1928, Serial No. 273,773, and in Germany May 4, 1927. 6 Claims. (Cl. 95—5.6.)

1. Method of manufacturing a photographic picture on a chromated gel-layer comprising exposing the layer and subjecting the exposed layer to a treatment with a vapor atmosphere oversaturated with steam followed by the usual washing and staining treatments.

1,785,636. COMBINATION BATHTUB AND SHOWER. HARRY S. LEBER, Crafton, Pa. Filed Jan. 24, 1930. Serial No. 423,198. 4 Claims. (Cl. 4—148.)



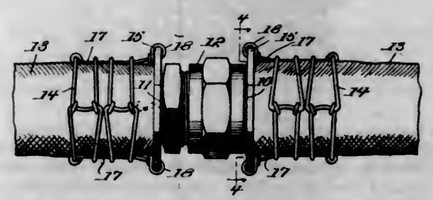
1. A combined bath tub and shower compartment comprising complemental wall structures, a cornice, post members carried by the tub supporting the portions of the cornice extended from the wall structures, and closures slidably arranged between the tub and cornice.

1,785,637. METHOD OF MAKING HATS AND THE PRODUCT THEREOF. CLARENCE LIPPER, Philadelphia, Pa., assignor to Lipper Manufacturing Co., Inc., a Corporation of Pennsylvania. Filed Mar. 6, 1930. Serial No. 433,781. 9 Claims. (Cl. 66—171.)



1. The method of making hats which consists in knitting an elongated tubular body of uniform or constant diameter, of strands including relatively flat, ribbon-like synthetic cellulose thread, and of a texture which renders said body subject to stretch and contraction, and a permanent set, closing one end of a suitable length of said knitted tubular body, by a single elongated and shaped seam convexed outwardly, so as to permit the blocking of the closed end of the tubular body into a smooth crown of a hat, and lastly blocking this seamed, knitted tubular body, to form a hat of any desired shape, devoid of any side seams and having merely a top seam.

1,785,638. HOSE COUPLING. FRED LUDWIG, Honolulu, Territory of Hawaii. Filed June 29, 1928. Serial No. 289,266. 1 Claim. (Cl. 285—84.)



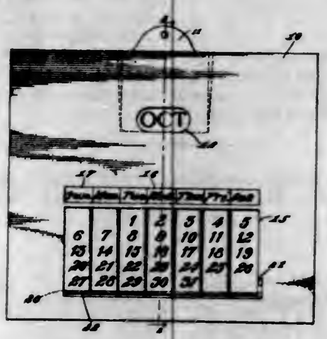
In combination with a hose a nipple therefor, of means for attaching the hose to the nipple, including a collar supported by the nipple and against which the adjacent end of the hose is adapted to engage, said collar being shaped to provide apertured extensions projecting beyond the sides of the hose at diametrically opposite points, a pair of wire clamps surrounding the hose, each clamp including spaced convolutions formed from a single length of wire and having a closed end, the free ends of each clamp being looped about the closed end thereof, and spaced longitudinal strands of wire connecting the convolutions of both clamps and arranged at diametrically opposite points along the hose, each of said strands being bent outwardly from its point of contact with said clamp in the direction of said collar, with said portion spaced from the hose, the corresponding extremities of said bent portions being passed through the apertures of said extensions and looped about the latter, and finally coiled about the bent portions passing between the space between the latter and the hose.

1,785,639. PACKAGE-OPENING DEVICE. OTTO T. MAURER, New York, N. Y. Filed June 18, 1929. Serial No. 371,849. 3 Claims. (Cl. 229—51.)



1. A sealed package of the class described including an inner wrapper sheet of paper completely enveloping the contents of the package, an outer wrapper sheet of paper sealing the package, slits in the folds of the wrapper sheets, the slits in the folds of the outer sheet being offset with respect to the slits in the folds of the inner sheet, said inner sheet having partly severed portions, tabs integral with said portions, said tabs being extended outwardly through said slits to present protruding ends exteriorly of the package, whereby a pull on said protruding ends of the tabs will break the seal of the package, and will also detach said portions, to form an opening in the package through which the contents of the package may be removed.

1,785,640. CALENDAR. EDWARD MCNAMARA, Wolsey, S. Dak. Filed Jan. 23, 1930. Serial No. 422,860. 1 Claim. (Cl. 40—107.)



A perpetual calendar comprising a housing including a vertical passage within its upper portion in communication with an elongated horizontally disposed sight opening exposed toward the front, placards removably secured within said passage having the abbreviations of the months of the year inversely arranged adjacent the opposed side edges and upon both sides to selectively exhibit the abbreviations of the months through the sight opening in readable formation, said housing being further provided with a pocket recessed for an appreciable distance in the face thereof and below the sight opening, the upper edge of said pocket having an undercut groove, strip members receivable within said pocket and projecting at their uppermost ends within the under-cut groove are provided with successions of day date legends upon opposite sides thereof, means carried upon that portion of the face of the housing overhanging the under-cut groove including the days of the week identifying the day dates, said housing having oppositely disposed horizontally aligned pockets within the side edges of the first mentioned pocket, one of the pockets being downwardly and inwardly projected from and opening to the front, and a bar removably positioned within the pockets and engaging the strip members to prevent accidental displacement thereof.

1,785,641. COMPOSITION FOR AND PROCESS OF TREATING PLANT WOUNDS. IRVING E. MELHUS, Ames, Iowa. Filed June 17, 1926. Serial No. 116,748. 18 Claims. (Cl. 47—8.)

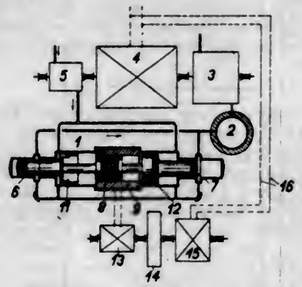
4. In a process of treating wounds of trees and other plants, covering the wounds with a composition comprising a fungicide and a solution of a condensation product of furfural, creosol and a condensing agent in an organic solvent containing furfural.

1,785,642. BLOTTER HOLDER. NORMAN DUDLEY MURRAY, Dartmouth, Nova Scotia, Canada. Filed Oct. 26, 1929, Serial No. 402,734, and in Canada Aug. 16, 1929. 7 Claims. (Cl. 120—25.)



1. In a device of the character described a body upon one face of which a length of sheet material is adapted to be arranged, an expansible and yieldable bail pivoted on the body, and an abutment also on the body and cooperating with the free end of the bail in clamping one end of the sheet material thereto, and a clamping bar carried by the bail adjacent its pivoted end and adapted to clamp the opposite end of the sheet to the plate.

1,785,643. INTERNAL-COMBUSTION POWER PLANT. WALTER GUSTAV NOACK and JEAN DE FREUDENREICH, Baden, Switzerland. Filed Sept. 15, 1927, Serial No. 219,734, and in Switzerland Apr. 25, 1927. 3 Claims. (Cl. 290—4.)



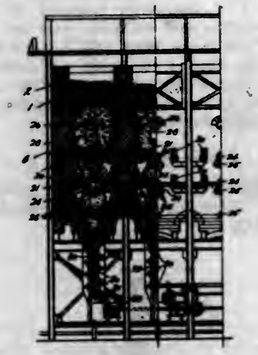
1. Internal combustion power plant comprising, in combination, a gas turbine, an electric generator driven by said gas turbine, a reciprocating engine of the free or flying piston type the expanded working fluid of which operates the gas turbine, a reciprocating electric generator driven by the aforesaid reciprocating engine, and electric coupling means between the said reciprocating electric generator and the electric generator driven from the gas turbine, as and for the purpose set forth.

1,785,644. SLIP SOCKET. WALTER A. O'BANNON, Tulsa, Okla., assignor to Walter O'Bannon Co., a Corporation of Oklahoma. Original application filed Mar. 6, 1929, Serial No. 259,544. Divided and this application filed May 23, 1929. Serial No. 365,395. 5 Claims. (Cl. 294—102.)



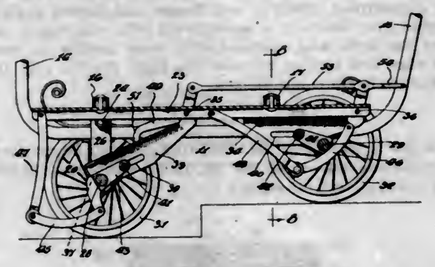
1. A sucker rod socket comprising a barrel, a slip unit mounted therein and composed of complemental gripping sections, and separate means common to and interlocking with said sections and tending to expand the sections into contact with the barrel walls with movement of the slip unit upwardly within the barrel and preventing longitudinal displacement of the sections relative to each other.

1,785,645. APPARATUS FOR CARBONIZING AND DISTILLING CARBONACEOUS MATERIALS. WILLIAM W. ODELL, Minneapolis, Minn., assignor, by mesne assignments, to Northern Lignite Coal Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 17, 1924, Serial No. 744,143, and in Canada May 30, 1924. 14 Claims. (Cl. 202—121.)



1. A vertical apparatus for carbonizing and distilling solid carbonaceous materials providing a vertically disposed passage, and a plurality of air ducts arranged in horizontal pairs at different levels, with the ducts of the pairs on opposite walls of the passage, each duct being partially embedded in the wall with one side flush with the inner surface of the passage and each having a bottom portion which overhangs the passage, which overhanging portion has discharge openings communicating with the passage.

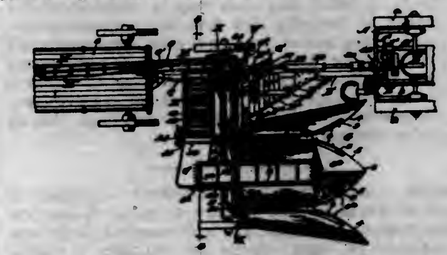
1,785,646. BABY CARRIAGE. ALEX. PASCOO, Bronx, N. Y. Filed July 9, 1928. Serial No. 291,315. 10 Claims. (Cl. 280—29.)



1. In a wheel vehicle, front and rear sets of swingingly mounted wheels for swinging movement to two different horizontal planes, manually operated means for locking either or both of said sets of wheels at the limit of their swinging movement to the higher plane, and automatic means for locking said sets of wheels upon actuation of said manually operated means to unlocked position.

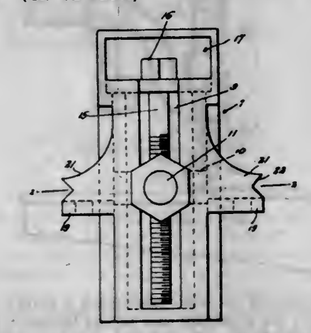
1,785,647. CORN-HARVESTING MACHINE. JOHN POWELL, Kokomo, Ind. Filed Mar. 27, 1925. Serial No. 18,718. 7 Claims. (Cl. 56—18.)

5. In a corn harvester of the class described, a unitary transverse main frame having ground wheels mounted on the ends thereof, two pairs of snapping rolls mounted on the front end of the frame at one side thereof, and a forwardly extending hitch mounted on the other front side of said frame by means of two widely spaced pivots, adjustable means connecting said frame and said hitch, whereby the operator can move the front or receiving ends of said rolls up and down, elevating means for the ears located between said pairs of rolls, whereby the ears will be carried in rear of said frame, a transversely positioned husking device mounted to the rear of said frame, paralleling the same and positioned in rear of said hitch,



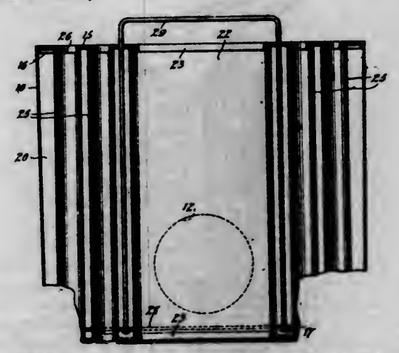
a chute for transferring the ears from said elevator to said husking unit, and a final elevator detachably positioned at the outlet end of said husking unit whereby the husked corn can be elevated to a final receptacle.

1,785,648. CONCRETE ANCHOR. OSCAR RICE, Chicago, Ill. Filed June 25, 1929. Serial No. 373,576. 5 Claims. (Cl. 72—105.)



1. In a structure of the class described, a hollow open front box-like anchor, a bolt mounted for rotation therein, a block adjustably mounted on said bolt, an angle iron support, and means connecting said support with said block through said open front.

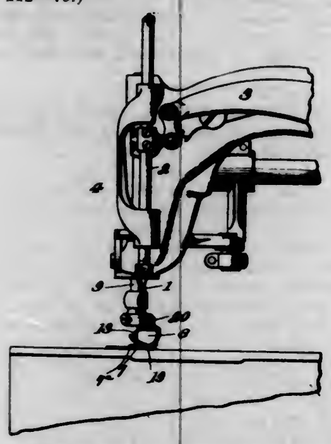
1,785,649. AIR HEATER. STELMER D. RICH, Newport, Me., assignor of one-half to Cuyler W. Rich, Newport, Me. Filed Mar. 5, 1929. Serial No. 344,461. 4 Claims. (Cl. 257—167.)



4. A heater of the class described, comprising the combination of a casing section adapted to be connected in a flue of a stove or the like, a separate unit consisting of heads, tubes arranged between said heads to form therewith air passages, means securing said heads to-

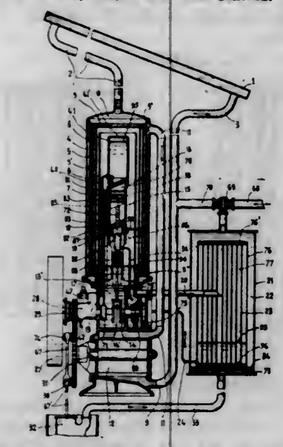
gether with said tubes held in place between said heads, a plate positioned between said heads, said plate being perforated to accommodate and move along said tubes, a rod attached to said plate and extending through one of said heads by which said plate may be reciprocated, for the purpose of removing soot from the surfaces of said tubes and casing section, and said unit thus constructed being adapted for removable disposition in said casing section and when disposed therein defining therewith a heat chamber through which the heated flue gas circulates, for the purpose of heating said tubes to heat the air circulating through said passages.

1,785,650. RUG-TUFTING MACHINE. ALBERT S. RIVIERE, Evanston, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed July 10, 1928. Serial No. 291,550. 6 Claims. (Cl. 112—79.)



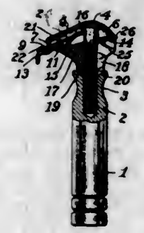
1. A rug tufting machine comprising a thread carrying needle, means for vibrating said needle laterally, a thread carrying looper cooperating with said needle, and means engaging the needle thread between consecutive reciprocations of the needle for forming loops therein and for severing the same to form tufts.

1,785,651. SUN-HEAT MOTOR. TITO ROMAGNOLI, Bologna, Italy. Filed May 17, 1928, Serial No. 278,603, and in Italy May 21, 1927. 13 Claims. (Cl. 60—26.)



1. A sun heat operated motor comprising a heat absorber, a heat exchanger, a fluid, means for circulating said fluid through said heat absorber and exchanger, said heat exchanger providing a sealed vaporizing chamber containing a bottom layer of lubricant and a supernatant body of operating medium, an engine cylinder extending in said vaporizing chamber and having ports opening therein, a piston reciprocating in said cylinder, a crank shaft and a connecting rod operated by said piston, said crank shaft being journalled in said vaporizing chamber, an exhaust duct, a distributor operated by said crank shaft and controlling said cylinder ports for timed communication of the same with said vaporizing chamber and said exhaust duct, a condenser connected with said exhaust duct, means for cooling said condenser and means conveying condensed operating medium from said condenser to said vaporizing chamber.

1,785,652. SAFETY RAZOR. EDWARD C. SASSER, Washington, D. C. Filed June 23, 1928. Serial No. 287,782. 3 Claims. (Cl. 30—12.)



3. A safety razor comprising a supporting member having a recess leading in from the edge thereof, a guard member mounted upon the supporting member, a blade mounted upon the guard member and having a recess leading in from the edge thereof, the recess in the edge adapted to register with the recess in the supporting member, a cover member having a securing bolt passing through said registering recesses, said cover member having downturned stiffening end flanges and having a plate portion provided with a downturned edge adapted to engage the blade and provided with slots leading in from the edge and located between the plate portion and the downturned stiffening flanges.

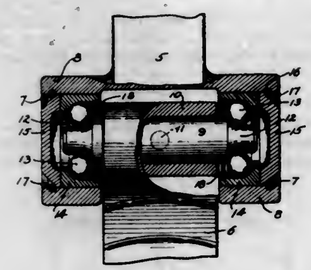
1,785,653. STEEL-WOOL HOLDER. SAUL SCHULHOFF, Baltimore, Md. Filed Dec. 17, 1929. Serial No. 414,800. 5 Claims. (Cl. 15—209.)



1. A holder adapted for holding a pad of steel wool or the like, comprising a flexible body portion, said body portion having a groove therein, and a plurality of elliptical headed stud members spacedly positioned in said groove for holding the steel wool on the body, said headed members lying normally below the surface of said body member and extending transversely of said groove.

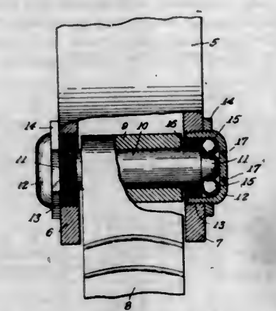
1,785,654. ANTIFRICTION SPRING CONNECTION. RAYMOND R. SEARLES, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a Corporation of Connecticut. Filed Jan. 29, 1925. Serial No. 5,624. 2 Claims. (Cl. 267—54.)

1. In a spring end connection, a frame part having spaced apart seats for bearing cups, bearing cups in said seats and insertible axially thereof, bearing pin means to be secured to a spring and project beyond the sides thereof, the ends of said pin means extending into said bearing cups and having bearing raceways formed directly thereon, antifriction bearing members interposed between said bearing cups and the ends of said pin means, a lubri-



cant retaining and dust excluding closure ring carried bodily by each bearing cup and extending to and surrounding said projecting ends of said pin means so as to close the annular space between said bearing cups and said pin means extending thereinto, and means for retaining said bearing cups in place in said seats.

1,785,655. VEHICLE SPRING BEARING. RAYMOND R. SEARLES and ELISHA H. COOPER, New Britain, Conn., assignors to The Fafnir Bearing Company, New Britain, Conn., a Corporation of Connecticut. Filed Mar. 10, 1925. Serial No. 14,394. 2 Claims. (Cl. 267—54.)

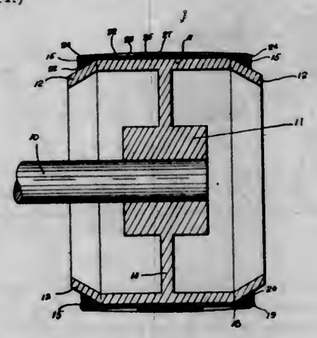


1. In a spring end connection, a frame part having spaced apart members with aligned threaded apertures therein, closed bearing cups having threaded outer surfaces for engagement with said threaded apertures, pin means to be secured to a spring and project beyond the sides thereof, the ends of said pin means projecting beyond the sides of said spring being positioned within said bearing cups, anti-friction bearing members interposed between said cups and ends of said pin means, lubricant retaining and dust excluding rings carried bodily by said bearing cups and engaging over said pin means inwardly of the ends thereof to seal said anti-friction bearing members in said cups, said cups being formed of metal of substantially uniform thickness throughout, means for locking said bearing cups in place in threaded engagement with said spaced apart members, said bearing cups together with said anti-friction bearing members and dust rings being removable as units from said spaced apart members.

1,785,656. METHOD OF PREPARING THIAZOLES. LORIN B. SEBRELL and JAN TEPPEMA, Akron, Ohio, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Original application filed June 17, 1925, Serial No. 37,861. Divided and this application filed Jan. 7, 1928. Serial No. 245,262. 2 Claims. (Cl. 260—44.)

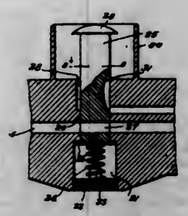
1. A method of preparing aryl thiazoles which comprises reducing an ortho-nitroaryl hydrosulphide in solution to an ortho-amino-aryl hydrosulphide, and subsequently causing the latter while still in solution to react with carbon bisulphide to complete the thiazole ring.

1,785,657. PNEUMATIC TIRE. WALTER E. SHIVELY, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed May 5, 1926. Serial No. 106,914. 3 Claims. (Cl. 154—14.)



1. A method of manufacturing pneumatic tires which comprises shaping an inner fabric band to have a substantially cylindrical intermediate portion and outwardly beveled edge portions, applying molded semi-cured beads to the beveled edges of the fabric by moving them axially of the fabric band, applying additional bands of fabric and a tread band to complete the assembly of the tire, stitching the bands together and about the beads, expanding the tread portions of the tire and at the same time causing the beads to rotate about their circumferential axes to the position they normally assume in the finished tire.

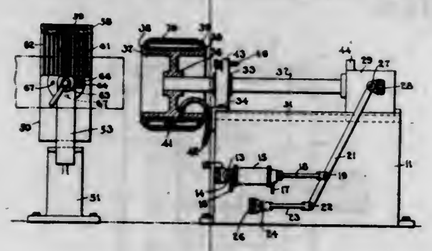
1,785,658. VALVE FOR AIR GAUGES. HOWARD STANLEY and RUFUS STANLEY, Dunbar, W. Va. Filed Feb. 7, 1928. Serial No. 252,503. 1 Claim. (Cl. 251—76.)



A valve structure comprising a body having an opening therein, said body being provided with a bore extending through the body transversely of said opening, said body being provided with a duct extending from said bore, a valve element slidable within said bore, and provided with an actuating knob at one end thereof, said element being provided with a transverse opening, and a longitudinally extending channel, said body being provided with an enlarged counter bore threaded at its outer end and communicating with the transverse bore of the body, a head

on the element operative within the enlarged bore, spring means operating against said head for normally maintaining the element projected outwardly so that the channel will open the duct to the atmosphere while the transverse opening in the element is alined with the opening thru the body, and a threaded plug for disposition within the enlarged bore adapted to be urged against the spring means to adjust the pressure thereof.

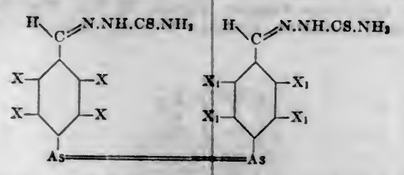
1,785,659. TIRE-BUILDING MACHINE. WILL C. STATE, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Feb. 12, 1929. Serial No. 339,371. 12 Claims. (Cl. 154—10.)



3. A machine for constructing pneumatic tire casings comprising means for supporting the tread ply of a pneumatic tire casing by its outer periphery, means successively to insert the inner plies within the inner circumference of the tread ply, and means to secure each successive ply into position against the inner circumference of the preceding ply.

1,785,660. THIOSEMICARBAZONES OF HYDROXY ARSENOBENZENES AND PROCESS OF PREPARING THE SAME. KARL STREITWOLF, Frankfort-on-the-Main, and ALFRED FEHRLE, Badsoden-on-the-Taunus, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed July 11, 1928, Serial No. 292,020, and in Germany July 21, 1927. 10 Claims. (Cl. 260—15.)

9. As new products, the thio-semicarbazones of hydroxy-arsenobenzenes having the general formula:



wherein one X and the corresponding X_1 stand for OH and the other X and the corresponding X_1 for H, NH_2 or halogen, said new products being yellow to yellowish-red colored bodies which melt with decomposition and readily dissolve in alkalies with formation of the respective alkali metal salts which in the dry state are yellow to brownish-red powders, readily soluble in water with alkaline reaction.

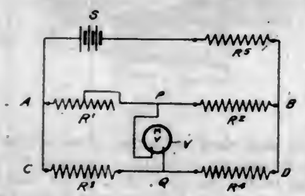
1,785,661. DOOR WITH HINGE. AUGUSTUS F. WASMUTH, Huntington, Ind., assignor to Wasmuth-Endicott Company, Andrews, Ind., a Corporation of Indiana. Filed Oct. 7, 1929. Serial No. 397,987. 8 Claims. (Cl. 20—35.)

1. In combination with a door having recesses in one face; concealed hinges each consisting of a pad and a leaf pivoted upon and overlapping the pad, each leaf entering a recess; the recesses being of such depth that



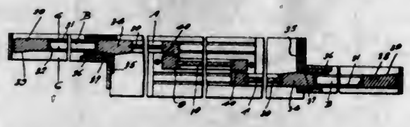
the recessed face of the door will be substantially flush with the pad; means for securing each leaf in its recess; and a member on the door covering the recesses.

1,785,662. TEMPERATURE-INDICATING DEVICE. PAUL GEORGE WATERLOO, Madera, Pa. Filed May 9, 1928. Serial No. 276,358. 1 Claim. (Cl. 73—32.)



In a temperature indicating apparatus for use in connection with internal combustion engines having a cooling system embodying a water conduit, a union for installation in the conduit of cylindrical form, the union having openings in its upper side and adjacent its ends, a hollow tubular body arranged within the union and provided at its ends with upwardly extending branches fitting in said openings in the union, plugs of insulating material fitted in the ends of said branches, binding posts for electrical conductor wires mounted in said plugs, and an electrical resistance element comprising a coil arranged within the said tubular body in spaced relation to the walls thereof and having its terminals extending upwardly through the branches of the body and spaced from said branches and connected with respective ones of the binding posts.

1,785,663. COMBINATION WINDOW AND SCREEN. CLARENCE M. WITTMANN, Pittsburgh, Pa. Filed Aug. 15, 1929. Serial No. 386,101. 6 Claims. (Cl. 20—52.1.)



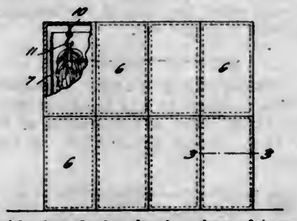
1. In a structure of the class described, a frame, a center sash mounted in the frame, means for mounting the center sash to swing on a vertical axis equidistant from the sides thereof, side sashes slidably mounted in the frame, said means being detachable.

1,785,664. ANIMAL TRAP. HENRY W. ABEL, Brillion, Wis. Filed Oct. 16, 1929. Serial No. 400,050. 5 Claims. (Cl. 43—61.)



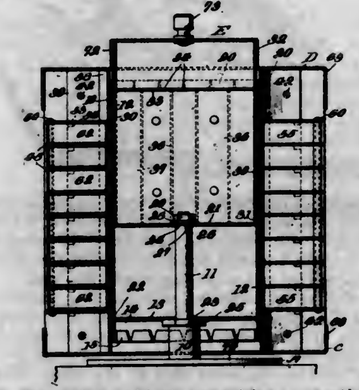
1. In an animal trap, a housing open at one end, a door hinged at one edge of the opening, a spring ball extending transversely of the door and having its ends operatively connected with the housing, means connecting the bail with the door to yieldingly hold the door closed, a trigger operatively mounted upon the housing, means carried by the trigger to engage the bail and hold the door in open position, and a bait holder adapted to be removably engaged with the trigger to hold the latter in bail engaging position.

1,785,665. MERCHANDISE CARRIER. ETHAN E. ASELTINE, St. Albans, Vt. Filed Mar. 26, 1929. Serial No. 350,029. 2 Claims. (Cl. 217—52.)



1. In a shipping device for bunches of bananas, a casing having an open side, a flexible member having its edges secured at the sides of the opening of the container and having its body looped rearwardly into the container, stays connecting the flexible member to the inner walls of the casing whereby the flexible member will be held in spaced relation to the said walls, and means engaging the flexible member between the locations of the anchorage of its edges to the container and bananas which may be embraced by said flexible member for drawing the flexible member around the bananas.

1,785,666. TOOL CABINET. FRANK H. BACHELDER, Orange, Mass. Filed Sept. 22, 1928. Serial No. 307,595. 9 Claims. (Cl. 312—148.)

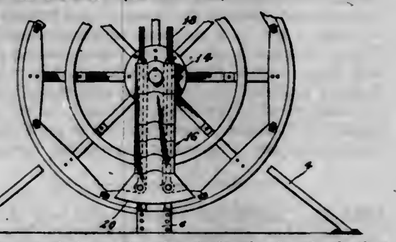


9. A dispensing cabinet comprising a vertically arranged hollow tube, back plates paralleling the outer faces of said tube and attached thereto, a cabinet top and a cabinet bottom, columns in spaced relation intermediate the cabinet bottom and top, vertical tiers of horizontal shelves in spaced relation extending across the spaces between said columns, and horizontally swinging pockets telescoping the spaces between said shelves, for the purpose described.

1,785,667. TREATMENT FOR LINERS. PAUL BEEBE, Los Angeles, Calif., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Feb. 26, 1929. Serial No. 342,933. 4 Claims. (Cl. 154—2.)

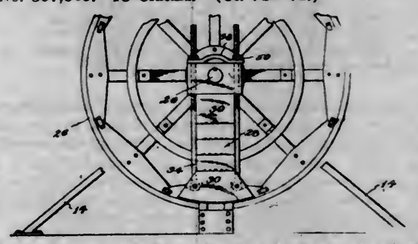
1. A liner fabric which has been dipped in a solution of soap.

1,785,668. COUNTERBALANCE. CHARLES H. BERGQUIST, Okmulgee, Okla., assignor of one-half to Emery A. Locke, Okmulgee, Okla. Filed Feb. 6, 1929. Serial No. 337,922. 11 Claims. (Cl. 74—71.)



7. In a counterbalance for the shaft of a band wheel, a body consisting of a plurality of sections having grooves, arms pivotally connected to said body and extending through said grooves, and an attaching member having means whereby the same may be attached to the shaft of a band wheel, said arms being provided with means to secure the innermost section of said body in pressure engagement with said attaching member.

1,785,669. COUNTERBALANCE. CHARLES H. BERGQUIST, Okmulgee, Okla., assignor of one-half to Emery A. Locke, Okmulgee, Okla. Filed Apr. 23, 1929. Serial No. 357,535. 13 Claims. (Cl. 74—71.)



12. In a counterbalance for the shaft of a band wheel, an attaching block having means whereby the same may be attached to a band wheel shaft, a weighted body, hangers pivoted to the body and having means to secure one end of said body in pressure engagement with one surface of said attaching block, said body consisting of a plurality of sections confined between said hangers.

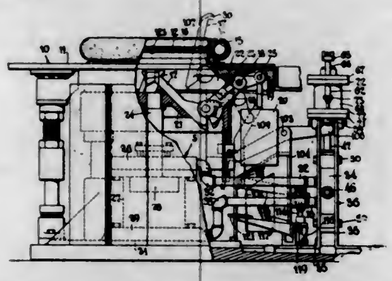
1,785,670. COMBINED MIXING AND FLOW DEVICE. LEWIS E. BUNCH, Pampa, Tex. Filed June 18, 1930. Serial No. 461,023. 2 Claims. (Cl. 103—232.)



1. In a mixing device and flow valve for wells, a flow tube, a hollow member adapted to be connected in the flow

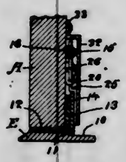
tube, a pipe section located within said member and spaced from the walls thereof to provide a mixing chamber having communication with the flow tube and an air chamber surrounding the mixing chamber, said air chamber having air inlet openings at its upper end for the passage of air under pressure, a rotatable member located within the mixing chamber in the path of liquid passing through the flow tube, means having communication with the air chamber to direct air therefrom into the mixing chamber for mixture with the liquid to impart a swirling action thereto, and means located within the air chamber in the path of the air to operate the rotatable member.

1,785,671. RIMMING PRESS. WALLACE H. CAMPBELL, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 10, 1927. Serial No. 239,176. 8 Claims. (Cl. 18—2.)



4. The combination with a fluid actuated rimming press of a valve for controlling the flow of fluid to the press, means for operating the valve for initiating the operation of the press, means engaged by the press during its rim closing movement for discontinuing the flow of fluid to the press, and means for continuing the flow of fluid to the press for completing the rim closing movement.

1,785,672. AUTOMATIC WEATHER STRIP FOR DOORS. JOHN W. CARTER, Neillsville, Wis. Filed Aug. 26, 1929. Serial No. 388,525. 1 Claim. (Cl. 20—68.)



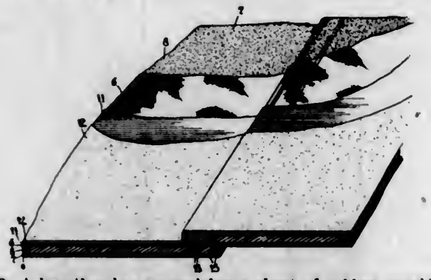
The combination with a swinging door and its frame, including a door sill and a wear plate upon the upper side of the sill, and which sill is recessed at its upper side in rear of said plate, of a rod mounted transversely upon the door at the inner side of said door, a weather strip comprising a plate of metal and a facing of packing material upon one side of said plate, arms secured to the outer side of said plate and extending over the upper edge thereof and thence upwardly and provided at their upper ends with inwardly directed right angular extensions to engage the surface of the door against which the facing strip is disposed, the facing strip being so positioned with respect to the lower edge of the plate that the lower edge of the strip will seat upon the upper side of the wear plate and the lower edge of the said weather strip plate will project below the lower edge of the facing strip to seat in the recess in the sill of the door frame, resilient members mounted for rocking movement between their ends upon the outer side of the door, the members each having an upstanding arm and the rod having openings into which the ends of the arms project, each of said members further comprising an arm extending at an angle to the first mentioned arm and provided with a loop to slidably engage the upstanding portion of the respective arm upon the plate and beneath the terminal extension of said arm whereby to support the plate in elevated position, and a coiled spring upon the door having one end engaging the said rod and its other end fixed with respect to the door and holding the rod shifted in a direction to maintain the weather strip unit normally in an elevated position, and an abutment upon the jamb of the door frame to which the door is hinged, positioned to be engaged by one end of the said rod when the door is swung to closed position whereby to shift the rod against the tension of said spring and effect lowering of the weather strip unit into engagement with the sill.

1,785,673. PRINTING ROLLER. CHARLES CATTRAN, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 30, 1928. Serial No. 273,817. 6 Claims. (Cl. 91—67.8.)



1. A printing roll formed of resilient material, having end portions more flexible than the intermediate portions of the roll.

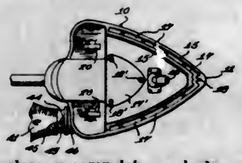
1,785,674. FABRIC FOR BREATHER BAGS. JAMES F. COOPER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 13, 1927. Serial No. 219,250. 6 Claims. (Cl. 154—46.)



3. A breather bag comprising a sheet of rubber provided upon each side with a ply of textile material, the one ply being coated with glue, and the other ply being coated with a weather resisting material including a coating of aluminum bronze and a coating of paraffin wax.

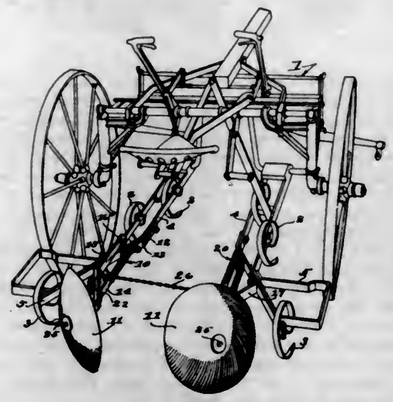
6. A method of preparing breather bag material composed of a number of individual sheets comprising coating sheets of fabric upon at least one side with rubber, superposing the edges of the sheets, securing the edges together, coating the inner side of the fabric with glue, and coating the outer side of said material with a weather resistant paint.

1,785,675. VACUUM CLEANER. KENNETH K. CUNDIFF, Tulsa, Okla., assignor of one-half to B. F. Alexander, Tulsa, Okla. Filed Oct. 13, 1927. Serial No. 226,025. 4 Claims. (Cl. 15—16.)



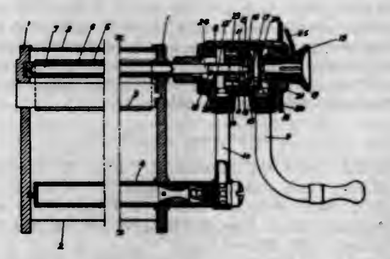
1. A vacuum cleaner comprising a body portion having opposite sides converging toward their forward ends, said body being provided with a relatively large internal vacuum chamber extending throughout the width thereof, the walls of said chamber terminating in flange portions opening beneath said body and arranged adjacent and parallel to the converging sides thereof, a plurality of ribs arranged between the flange portions of said walls and extending outwardly from the center of the chamber to divide the space between the flange portions into a plurality of suction nozzles, said body portion being provided with a relatively small passage communicating at its forward end with said chamber and extending rearwardly therefrom, and suction creating means communicating with the rear end of said chamber.

1,785,676. HILLING ATTACHMENT FOR CULTIVATORS. CHARLES MARSHALL DE YONE, Dover-Foxcroft, Me. Filed May 22, 1928. Serial No. 279,748. 1 Claim. (Cl. 97—179.)



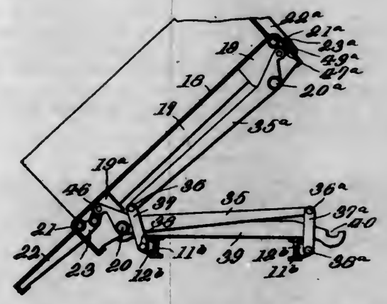
A disk attachment for cultivators comprising a bracket composed of a flat metal strip having a shank with an offset intermediate its ends to fit snugly against the cultivator frame member, parallel edge-wise disposed arms extending longitudinally from one end of said shank, one of said arms being in alinement with said shank, a laterally extending arm connecting the other longitudinal arm to said shank, a brace for connecting one of said arms with the cultivator frame, bearings carried by the free ends of said longitudinal arms, an L-shaped shaft having one arm mounted in said bearings and a disk carried by the other shaft arm, means whereby said disk may be locked on said shaft arm, and means for adjustably connecting said shaft in said bearings.

1,785,677. GAS HEATER FOR CURLING IRONS. GUILLAUME DUCART, Paris, France. Filed May 31, 1927, Serial No. 195,519, and in France June 4, 1926. 3 Claims. (Cl. 126—229.)



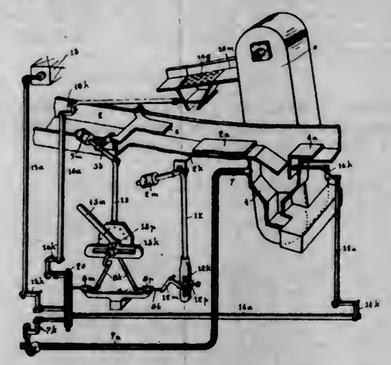
1. A gas iron heater comprising a plurality of spaced supporting members, a gas burner plate mounted in said supporting members, a heating box mounted in said supporting members, a thermo-regulator disposed adjacent to the side of the heating box opposite the gas burner, a sleeve enclosing said thermo-regulator and said heating box, and fuel control means associated with and operated by said thermo regulator.

1,785,678. DUMP VEHICLE WITH ACTUATED DOORS. HENRY FORT FLOWERS, Findlay, Ohio. Original application filed Apr. 8, 1926, Serial No. 100,577. Divided and this application filed May 25, 1928. Serial No. 280,505. 12 Claims. (Cl. 298—18.)



1. In a dump vehicle, a frame, a dump body tiltable upon said frame for dumping to either side, side doors for said body, transverse bars extending across said frame and alternately pivoted thereto at opposite sides thereof, said bars being pivoted adjacent their free ends to said body, and positive means connecting said bars and said doors to limit the opening of said doors during the tilting of the body toward the respective side, said bars and said doors having cooperating cam surfaces in mutual abutting relation during normal transport to hold said doors closed during such normal transport.

1,785,679. CLASSIFYING APPARATUS. ANTOINE FRANCE, Brussels, Belgium. Filed Nov. 8, 1927, Serial No. 231,960, and in Belgium Apr. 2, 1927. 8 Claims. (Cl. 209—18.)



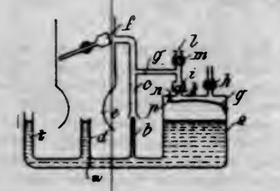
1. In a classifying apparatus comprising a classifying channel along which elements of various density to be separated are carried by a current of liquid, means for varying the conditions of classification of said elements, said means comprising a valve controlling the carrying current, a hopper introducing a certain charge of additional dense materials, a pocket having means providing a variable aperture and passing an ascending current of liquid therethrough, and a control device acting simultaneously on the said varying means and constituted by a float disposed in the channel and influenced by the quantity of dense materials in the channel.

1,785,680. FOUNTAIN PEN. ABRAHAM GOLDKNOPF, New York, N. Y. Filed May 18, 1929. Serial No. 364,174. 3 Claims. (Cl. 120—43.)



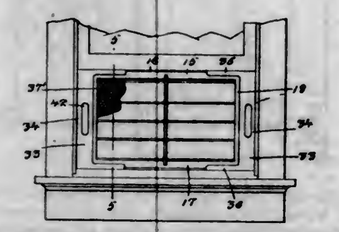
1. The combination with a fountain pen, of means adapted to control the flow of ink, said means being automatically operable to shut off the flow of ink to the nib, and also manipulatable to allow the ink to flow to said nib, and means manipulatable by the writer to check the means first mentioned to obtain a constant flow of ink while writing with the pen.

1,785,681. CARBURETOR. FÉLIX GOUDARD, Neuilly Sur Seine, France. Filed Mar. 5, 1926, Serial No. 92,596, and in Belgium Mar. 14, 1925. 4 Claims. (Cl. 261—41.)



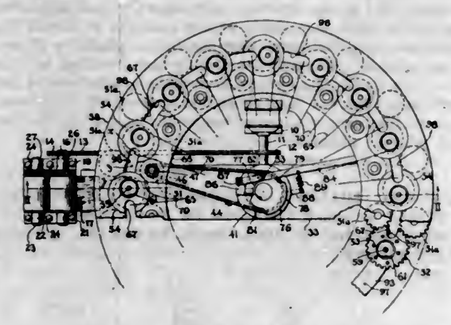
1. A carburetor comprising in combination a main nozzle, an auxiliary nozzle, a main mixing chamber, an auxiliary mixing chamber communicating with said mixing chamber and with the auxiliary nozzle, a throttle valve operable to simultaneously control the outlets of the main and auxiliary mixing chambers, a chamber provided with means for maintaining a liquid at a substantially constant level therein, and a conduit connecting said auxiliary mixing chamber to the upper part of the last-named chamber.

1,785,682. WINDOW VENTILATOR. WILLIAM B. HAMILTON, Pittsburgh, Pa. Filed Oct. 22, 1928. Serial No. 314,272. 3 Claims. (Cl. 98—99.)



1. In a window ventilator, a frame having side walls including an outer wall and an inner skeleton wall communicating with and spaced from the outer wall, said inner skeleton wall including vertically disposed rails and slotted inclined bars connecting the rails, and louvres having their opposite ends extending through the slotted bars.

1,785,683. BRAIDING MACHINE. GERALD D. MALLORY, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed May 15, 1929. Serial No. 363,369. 4 Claims. (Cl. 96—2.)



1. A braiding machine comprising a pair of concentrically disposed curvilinear supports, spaced apertures formed in the supports, notched carriers rotatably mounted within the apertures to rotate about axes perpendicular to the planes of the support, means for simultaneously rotating the carriers, means for supporting spools eccentrically mounted upon the carriers, fixed spools mounted adjacent the supports upon the sides opposite the spools upon the carriers and constituting means for supplying strands of flexible material between the supports and means comprising a member apertured to receive the strands extending parallel to the supports and disposed between the fixed spools and the carriers for oscillating the strands of flexible material from the fixed spools from the opening in one carrier to the opening in the adjacent carrier whereby to cause the strands from the fixed spools to be entwined with the strands from the spools upon the carriers to form the braid.

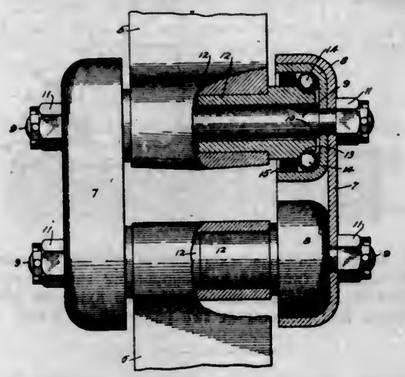
1,785,684. LOOSE-LEAF BINDER. JOHN L. MCMILLAN, Syracuse, N. Y., assignor to McMillan Book Company, Syracuse, N. Y., a Corporation of New York. Filed Mar. 14, 1928. Serial No. 261,532. 31 Claims. (Cl. 129—17.)



1. In a loose leaf binder adapted to contain record leaves, two series of impaling prongs, means for mounting and guiding the series of impaling prongs for movement away from each other to permit removal or addition of record leaves, and means pivotally mounting the impaling prongs of one series for movement to dispose the same angularly with respect to the impaling prongs of the other series and effect longitudinal shifting of said leaves with reference to each other.

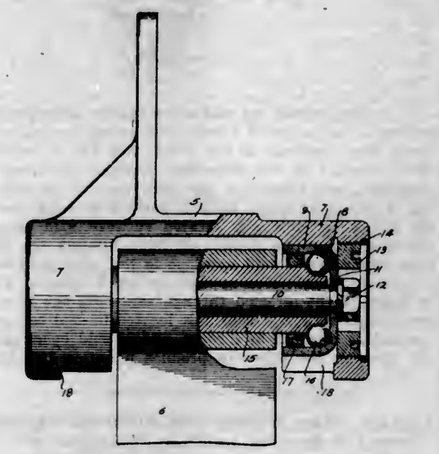
1,785,685. SPRING SHACKLE. JOHN W. SMITH, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a Corporation of Connecticut. Filed June 9, 1928. Serial No. 284,188. 18 Claims. (Cl. 267—54.)

1. In an antifriction spring shackle, a pair of shackle links having antifriction raceways at opposite ends thereof, means at opposite ends of said links for connecting said links together and definitely spacing the same apart at definite distances, means having antifriction raceways



complementary to the raceways on said shackle links and antifriction bearing members interposed between the raceways on said means and on said shackle links.

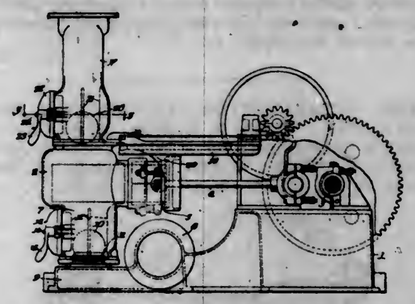
1,785,686. SPRING-END CONNECTION. JOHN W. SMITH, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a Corporation of Connecticut. Filed June 9, 1928. Serial No. 284,189. 11 Claims. (Cl. 267—54.)



1. In a spring end connection, a bracket having spaced apart seats thereon, raceway members in said seats, antifriction bearing members for said raceway members, means having complementary raceways engaging said antifriction bearing members, means independent of said bracket for connecting said raceway members in said seats for definitely spacing the same apart, and means for supporting said raceway members in said seats axially thereof.

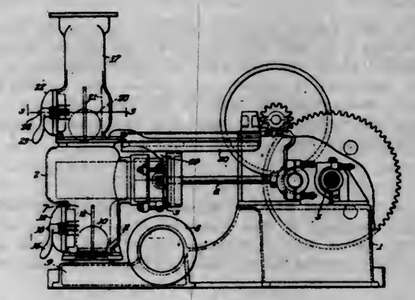
1,785,687. STUFF PUMP. ALONZO ALDRICH, Beloit, Wis. Filed Apr. 24, 1924. Serial No. 708,615. 3 Claims. (Cl. 103—6.)

1. The combination with a plurality of horizontally arranged stuff pump cylinders with a common operating mechanism, of separate interconnected inlets to some of said cylinders and separate interconnected outlets from



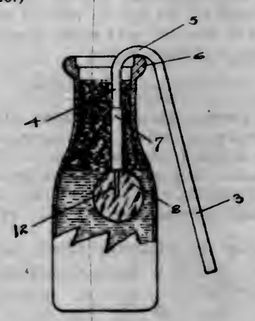
the cylinders selectively permitting the operation of some of the cylinders on one kind of material and another cylinder or cylinders on a different kind of material.

1,785,688. GUIDEWAY FOR RECIPROCATING ENGINES, PUMPS, OR THE LIKE. ALONZO ALDRICH, Beloit, Wis. Original application filed Apr. 24, 1924, Serial No. 708,615. Divided and this application filed Mar. 10, 1926. Serial No. 93,568. 13 Claims. (Cl. 308—5.)



4. The combination with the piston and cylinder of a cross head member carried at the outer end of the piston and comprising a web-like member extending across the piston and secured to the same, said member having a forwardly extending portion, the upper end of which is extended laterally to form guide members, an elevated guideway in which said guide members travel, and a piston rod connection carried by said cross head member.

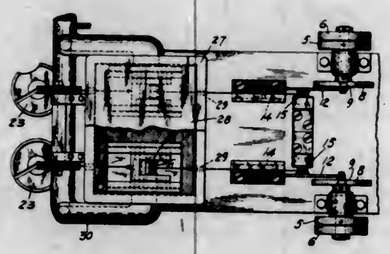
1,785,689. SKIMMER. CARL C. BARNES, Portland, Oreg. Filed Jan. 21, 1929. Serial No. 333,941. 1 Claim. (Cl. 137—20.)



In a skimmer: a siphon tube open at each end; an air chamber at the intake end of said tube and offset there-

from; and an orifice in said chamber to admit liquid thereinto, and to discharge air into the body of liquid into which said air chamber has been immersed, said air being discharged from said orifice immediately below the intake end of said siphon tube.

1,785,690. APPARATUS FOR AND METHOD OF TESTING CORDS. THOMAS B. BUFFUM, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 29, 1923. Serial No. 628,611. 9 Claims. (Cl. 73—51.)



1. A cord testing device comprising means for imposing a load upon and for securing a cord against rotative movement about its own axis, including members about which the cord is looped, said means also including a member connecting the ends of the cord adjacent each other, and means acting upon the last named member for flexing the cord.

1,785,691. TIRE FLAP. RICHARD S. BURDETTE, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 17, 1928. Serial No. 270,665. 3 Claims. (Cl. 152—20.)



1. A tire flap comprising a body portion, and means on the rim side of the flap to prevent adhesion of the body portion to the rim, said means comprising graphite combined with a soluble binder.

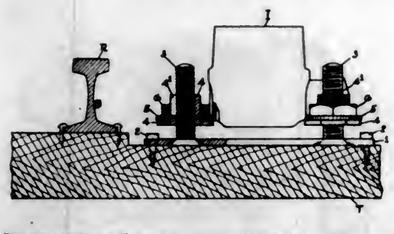
1,785,692. ANTIOXIDANT OR AGE RESISTER. ALBERT M. CLIFFORD, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Original application filed Feb. 7, 1928, Serial No. 252,677. Divided and this application filed Feb. 5, 1929. Serial No. 337,736. 13 Claims. (Cl. 18—50.)

1. A method of preserving rubber which comprises incorporating therein a material having the following structural formula:

$$R-N-R_1,$$
$$N=O$$

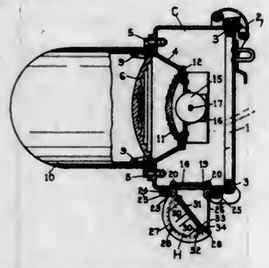
in which R and R_1 are naphthyl groups.

1,785,693. TRAIN CONTROL. WILBUR D. CLOUD, New York, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed Mar. 19, 1929. Serial No. 348,204. 7 Claims. (Cl. 246—63.)



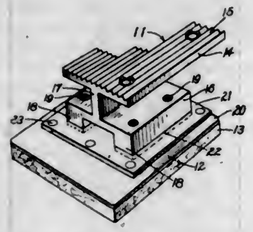
1. In an automatic train control system, the combination with an inductor and supporting ties therefor, of means for adjustably supporting, and fixing in adjusted position, said inductor at two points at each end.

1,785,694. COLOR-LIGHT SIGNAL. SALISBURY M. DAY, Rochester, N. Y., assignor to General Railway Signal Company, Gates, N. Y., a Corporation of New York. Filed Nov. 6, 1922. Serial No. 599,361. 6 Claims. (Cl. 177—329.)



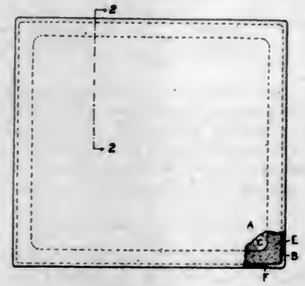
1. A light signal for railway signaling purposes comprising, a substantially rectangular casing having a relatively large opening in the front wall and a relatively small opening in the side wall, a light producing and projecting unit located in the large opening in said casing, a nontransparent barrier portion forming part of the projecting unit and located between said openings and preventing the passage of light through the casing from either one of said openings to the other, and means for reflecting light located over the small opening, whereby light can be directed through said openings from the single light source of said unit located in said casing but can not be directed in through one of said openings and out through the other to produce phantom indications.

1,785,695. PAD HOLDER FOR RUBBING MACHINES. GUSTAF H. EKSTROM, Rockford, Ill., assignor to C. Paul Parker, trustee, Evanston, Ill. Filed June 11, 1923. Serial No. 644,567. 4 Claims. (Cl. 51—175.)



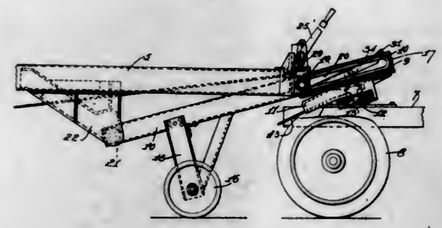
1. A pad holder for rubbing machines having, in combination, a bearing slide having screw openings and downward projections, a top plate having slots for receiving the downward projections of said bearing slide, a bottom plate secured to said top plate and having holes underlying said slots, a rubbing pad, and screws extending through said holes into said screw openings for holding the rubbing pad against said bottom plate and said bottom plate against said bearing slide.

1,785,696. BORDER SEAL FOR LAMINATED GLASS. ROBERT W. HACKETT, Upper Darby, and ARTHUR G. WORRALL, Philadelphia, Pa., assignors to Louis J. Kolb, trading as Safetee Glass Company, Philadelphia, Pa. Filed May 25, 1928. Serial No. 280,518. 4 Claims. (Cl. 49—81.)



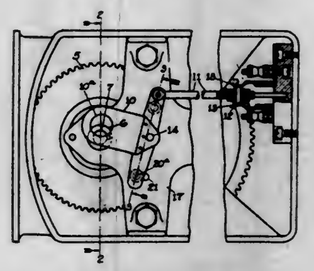
1. The herein described laminated glass, composed of two sheets of glass having an interposed sheet of celluloid or pyroxylin compound united into a unitary structure, the border edges of the glass sheets extending beyond the celluloid or pyroxylin sheet to provide a groove between the perimeters of the glass sheets, and the groove substantially filled with a sealing substance which comprises a powdered metallic base suspended in an adhering vehicle of a plastic character capable of being forced into the groove to be sealed.

1,785,697. FIFTH-WHEEL CONSTRUCTION FOR SEMITRAILERS. HARRY W. HELMS, Edgerton, Wis., assignor to Highway Trailer Company, Edgerton, Wis., a Corporation of Wisconsin. Filed Mar. 30, 1929. Serial No. 351,143. 23 Claims. (Cl. 280—33.15.)



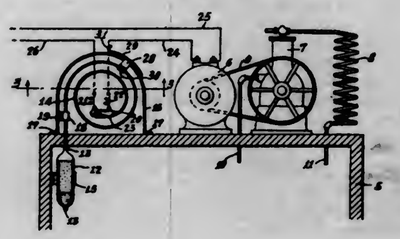
5. In combination with a semi-trailer and a tractor, a fifth wheel swivelly supporting one end of the trailer on the tractor when coupled thereto, said fifth wheel comprising an upper member tiltably supported on the trailer and a cooperating lower member rockably carried on the tractor, said upper member being tilted upward and forward when in uncoupling position and adapted to be moved to horizontal position by the coupling operation of the tractor and trailer, and means responsive to such rocking movement of the upper fifth wheel member for automatically locking said fifth wheel members together.

1,785,698. SWITCH MACHINE FOR RAILROADS. WINTHROP K. HOWE, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed Aug. 16, 1929. Serial No. 386,307. 4 Claims. (Cl. 246—143.)



1. In a switch machine, means permitting hand operation of the switch machine and including a movable member, power control contacts operated by movement of said member, and a spring actuated locking device for retaining said member in its operated position, said locking means being contained in a locked compartment and releasable only by an authorized person holding a key to said compartment.

1,785,699. CONTROL FOR REFRIGERATION MECHANISM. THOMAS J. LITLE, Jr., Detroit, Mich., assignor to Copeland Products, Inc., Detroit, Mich., a Corporation of Michigan. Filed June 12, 1926. Serial No. 115,686. 6 Claims. (Cl. 200—140.)

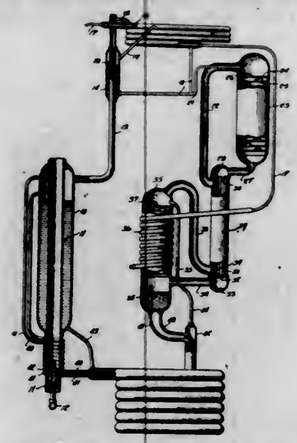


1. A control means for the refrigerating mechanism of a mechanically refrigerated cabinet comprising a continuous piece of tubing having one end sealed and adapted to be disposed in said cabinet and the other end flattened and coiled at its extremity, a heat gasifying liquid in said tube tending to coil and uncoil said coiled end in response to temperature variations, adjustable means for regulating said coiling and uncoiling, and a switch mechanism operated by the movement of the free end of said coil.

1,785,700. REFRIGERATION. CARL GEORG MUNTERS, Stockholm, Sweden. Filed Dec. 20, 1929, Serial No. 415,374, and in Sweden Jan. 21, 1929. 12 Claims. (Cl. 62—119.5.)

1. In a refrigerating apparatus, in combination, a generator, an absorber, means to convey liquid from said

generator to said absorber, a conduit connecting the bottom of said absorber with the upper part of said generator,

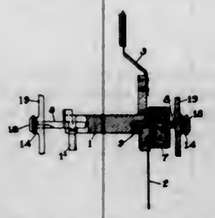


a conduit connecting an intermediate point of said absorber with the upper part of said generator and means to heat both of said conduits.

1,785,701. FRICTION ELEMENT AND PROCESS OF MAKING THE SAME. IZADOR J. NOVAK, Bridgeport, Conn., assignor, by mesne assignments, to Raybestos-Manhattan, Inc., a Corporation of New Jersey. Filed June 20, 1928. Serial No. 287,046. 2 Claims. (Cl. 18—55.)

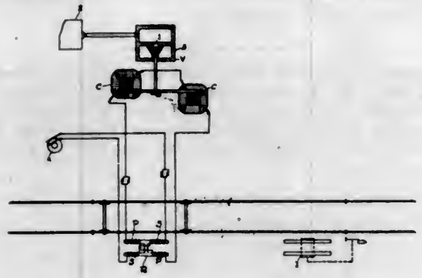
1. The process of producing a friction material for a friction element suitable for automobile brakes, clutches and the like which comprises mixing together fibrous asbestos and a hardenable binder into a readily-malleable mass with the fibres distributed through the same, extruding the mass through a suitable die thereby producing a continuous unlaminated strip of the cross-section desired surface-troweled on all sides by the action of the die and with the fibres in the interior thereof running in substantially all directions, drying the product thereby producing a flexible porous mass of somewhat greater thickness than that of the completed article and compressing and hardening the same into a hard dense article of the desired shape.

1,785,702. BEARING. JOHN L. OSBORNE, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed Mar. 11, 1929. Serial No. 346,236. 5 Claims. (Cl. 308—2.)



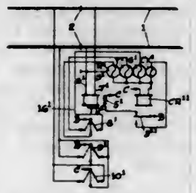
1. In a spindle bearing for railway apparatus and the like, a spindle positioned to rock on a horizontal axis, a groove in the lower side of the spindle extending inwardly from the end of the spindle, a cup like socket in the end of the spindle intersecting said groove, a casing loosely receiving the end of the spindle, a knife edge support carried by the casing and received in said groove to support said spindle, and a ball in said cup and held therein by said casing.

1,785,703. AUTOMATIC TRAIN-CONTROL SYSTEM. WADE H. REICHARD, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed July 15, 1929. Serial No. 378,323. 9 Claims. (Cl. 246—63.)



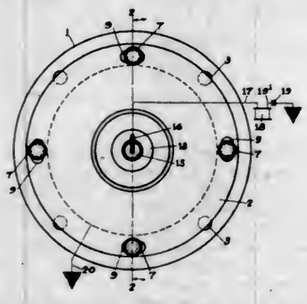
1. In an electro-magnetic valve for train control systems, in combination, a valve for controlling an air line, a U-shaped field core comprising separate laterally offset legs and a separate back yoke butted, and clamped, against ends of said legs and an armature pivoted to operate between and against side faces of said offset legs and actuate said valve.

1,785,704. CHECK-LIGHT SIGNAL. OSCAR A. ROSS, New York, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed July 14, 1928. Serial No. 292,752. 14 Claims. (Cl. 246—45.)



1. In a railway signalling system, in combination, a signal including a plurality of indications governed in accordance with traffic conditions ahead, a check signal for indicating a signal failure, and means for causing an intermittent operation of said check signal upon failure of an indication of said signal when such indication should be active.

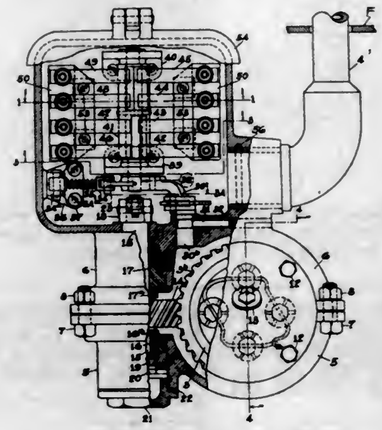
1,785,705. CIRCUIT CONTROLLER. HERBERT B. TAYLOR, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed June 22, 1928. Serial No. 287,568. 8 Claims. (Cl. 200—80.)



1. In a circuit controller, a casing adapted for connection to rotate in accordance with the speed of a vehicle,

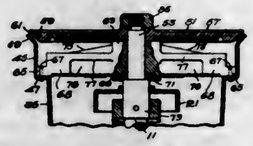
spaced contacts in said casing, fluid means for electrically connecting said contacts when said casing is stationary and for disconnecting said contacts when said casing is rotated, and adjusting means for varying flow of the liquid means for causing said contacts to be disconnected upon various speeds of rotation depending on the adjustment.

1,785,706. TRAIN CONTROL. HERBERT B. TAYLOR, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed July 23, 1929. Serial No. 380,379. 8 Claims. (Cl. 246—62.)



1. In a reversing switch mechanism for train control systems, a shaft, means operatively connecting said shaft to the end of a vehicle axle, an electric switch capable of assuming either of two extreme positions, means operating said electric switch to an opposite extreme position upon reversal of rotation of said shaft, and means holding said switch in its extreme positions independently of said operating means.

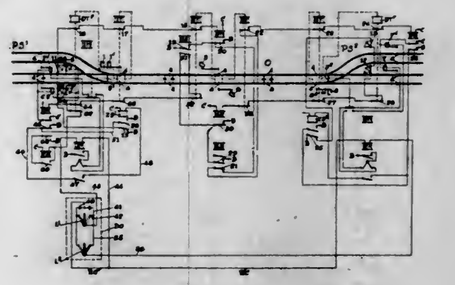
1,785,707. LIQUID-FUEL BURNER. EZEKIEL F. WHITE, Hartford, Conn., assignor to Grover V. Lassen, West Hartford, Conn. Filed Apr. 9, 1929. Serial No. 353,824. 4 Claims. (Cl. 158—77.)



4. A centrifugal, rotary atomizer for a liquid fuel burner having a rotary shaft, an atomizing cup secured to said shaft, a heat protecting head for the delivery end of the atomizing cup also mounted on said shaft, and yieldable means carried by the shaft adapted to permit the axial expansion of said heat protecting head.

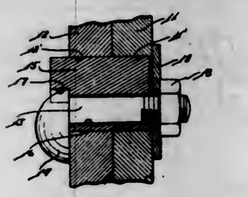
1,785,708. TRAIN-DISPATCHING SYSTEM FOR RAILROADS. SEDGWICK N. WIGHT, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed July 14, 1928. Serial No. 292,883. 13 Claims. (Cl. 246—3.)

1. In combination, a dispatcher's office, two control relays located distant to the dispatcher's office, two levers in said office for controlling the energization of said control relays, means responsive to the sequence in which said control relays are energized if energized in succession



with an intervening period of time, and means for indicating in the dispatcher's office when he has moved his levers in succession too quickly.

1,785,709. BOLT AND BUSHING THEREFOR. JULIAN G. CAMPAU, Monroe, Mich., assignor of one-fourth to Harry Bonifacio, Monroe, Mich.; Emilie J. Campau, administratrix of said Julian G. Campau, deceased. Filed Apr. 14, 1930. Serial No. 444,016. 4 Claims. (Cl. 85—1.)

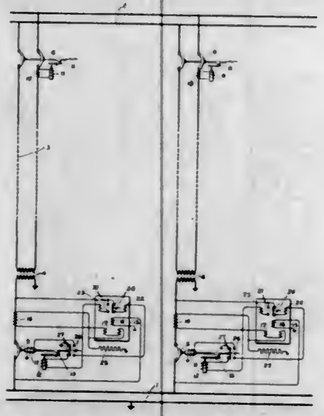


4. A device of the class described, comprising: a cylindrical retaining member having an axially extended eccentric passage formed therein and having one end cut away at said passage to provide a recess; a bolt head of a diameter corresponding to the outside diameter of said retainer; a stem projected eccentrically from one face of said bolt head and rotatably positioned in said passage, said head and said retaining member being in peripheral alignment upon rotation of said stem to predetermined position, and said head being engageable in said recess upon rotation of said stem to a predetermined position, said stem being non-rotatable upon engagement of said head in said recess, said stem having flat faces; and a separable plate provided with a flat sided opening for projection of said stem therethrough.

1,785,710. SYSTEM OF ELECTRIC DISTRIBUTION. WILLARD J. MCLACHLAN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 19, 1929, Serial No. 348,340. Renewed Oct. 6, 1930. 6 Claims. (Cl. 175—294.)

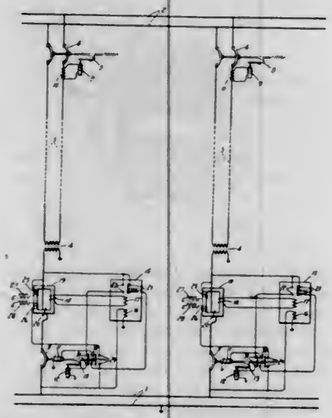
1. In combination, two electric circuits, a switch connecting said circuits, a power directional relay for controlling the opening of said switch having a voltage coil connected to one of said circuits and a current coil connected in series relation with said circuits when said switch is closed, and means controlled by said relay for

effecting the connection of said current coil across said other of said circuits when said relay is in a position to



effect the opening of said switch whereby said relay is maintained in said position as long as said other circuit is energized after said switch is opened.

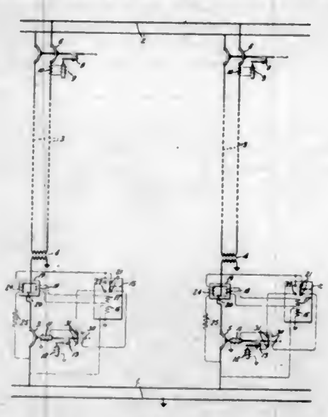
1,785,711. SYSTEM OF ELECTRIC DISTRIBUTION. WILLARD J. MCLACHLAN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 13, 1929. Serial No. 354,961. 5 Claims. (Cl. 175—294.)



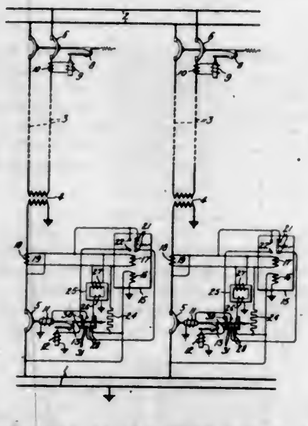
1. In combination, two alternating current circuits, a circuit breaker interconnecting said circuits, a current transformer having a primary winding connected in series with said circuits and a secondary winding, a relay controlling said circuit breaker having a winding connected to the secondary winding of said transformer, and two voltage windings on said current transformer respectively energized in response to the voltages of said circuits when said circuit breaker is open.

1,785,712. SYSTEM OF ELECTRIC DISTRIBUTION. WILLARD J. MCLACHLAN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 13, 1929. Serial No. 354,962. 8 Claims. (Cl. 175—294.)

1. In combination, an electric circuit, a circuit breaker in said circuit, a current transformer having a primary winding connected in series with said circuit and a secondary winding, a relay for controlling the operation of said circuit breaker having a winding connected to the secondary winding of said transformer, and a tertiary winding on the core member of said current transformer connected across the terminals of said circuit breaker.



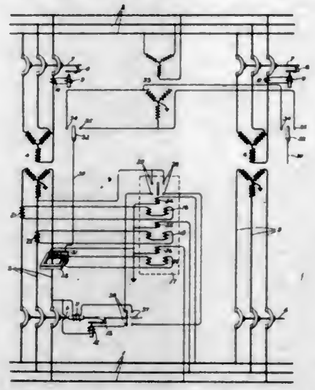
1,785,713. SYSTEM OF ELECTRIC DISTRIBUTION. WILLARD J. MCLACHLAN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 13, 1929. Serial No. 354,963. 5 Claims. (Cl. 175—294.)



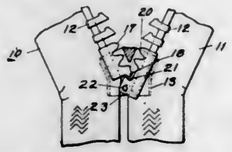
1. In combination, an alternating current circuit, a circuit breaker in said circuit, a current transformer having a primary winding energized in response to the current in said circuit, a potential transformer having a primary winding energized in accordance with the voltage of said circuit, and power directional means for controlling the operation of said circuit breaker having a winding simultaneously connected across the secondary windings of said transformers so that the amount of power required to operate said power directional means to effect the operation of said circuit breaker varies substantially directly with the voltage of said circuit.

1,785,714. CONTROL SYSTEM. WILLARD J. MCLACHLAN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 23, 1929. Serial No. 409,389. 4 Claims. (Cl. 171—97.)

1. In combination, two electric circuits, a circuit breaker for connecting said circuits together, means for effecting the opening of said circuit breaker in response to the flow of power between said circuits in a predetermined direction including a current transformer having its primary winding connected in series with said circuits when said circuit breaker is closed and a power directionanl relay having a voltage winding connected to one of said circuits and a current winding connected to the secondary winding of said current transformer, and means for remotely controlling the opening and closing of said circuit breaker including a tertiary winding of said current transformer and means for impressing upon said tertiary winding voltages having different phase relations with respect to the phase of the voltage impressed upon said voltage winding of said relay.

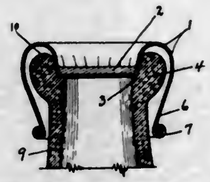


1,785,715. SEPARABLE FASTENER. SAMUEL HABEY NORTON, Meadville, Pa., assignor to Hookless Fastener Company, Meadville, Pa., a Corporation of Pennsylvania. Filed May 6, 1927. Serial No. 189,193. 10 Claims. (Cl. 24—205.)



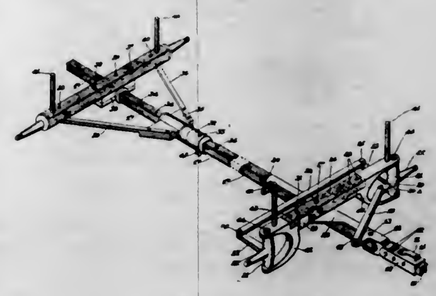
1. A separable fastener comprising a pair of stringers having opposed series of interlocking members, a slider movable along said stringers to engage and disengage said members, a member having a plurality of teeth mounted on one stringer, and a member having a plurality of teeth mounted on the other stringer and arranged to mesh with the teeth of said first mentioned member to guide said interlocking members into engagement in the proper sequence.

1,785,716. BOTTLE CLOSURE. DURLIN N. VAN ALSTYNE, Syracuse, N. Y., assignor of fifty per cent to James N. Van Alstyne, Fulton, N. Y. Filed Aug. 4, 1927. Serial No. 210,534. 1 Claim. (Cl. 215—38.)



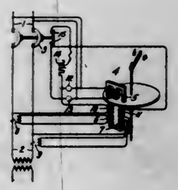
In a bottle closure, a pliable member loosely encircling the bottle top and normally in spaced relation thereto, and having a depending skirt extending downwardly along the bottle neck and being free to move vertically in relation thereto in both directions, and a sealing disk superposed on said pliable member and coacting therewith to seal the mouth of the bottle.

1,785,717. WAGON. MATHIAS J. ADAMS, Turkey River, Iowa, assignor of one-fourth to Adams Patent Wheel Co., Turkey, River, Iowa. Filed Mar. 2, 1929. Serial No. 343,959. 5 Claims. (Cl. 280—80.)



1. In a wagon running gear including front and rear axles and a tongue, a reach bar connecting said axles, a U-shaped reinforcing member embracing said reach bar and clamped thereto, one side of said U-shaped reinforcing member having a U-shaped keeper for the reception of the front axle, and means securing said front axle to said U-shaped reinforcing member against shifting.

1,785,718. PROTECTIVE SYSTEM. SEYMOUR LEOPOLD BAUM, New Rochelle, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 16, 1928. Serial No. 293,189. 9 Claims. (Cl. 175—294.)

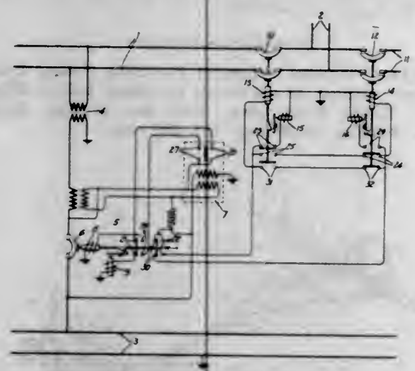


1. In combination, two electric circuits, a switch connecting said circuits, and a control relay responsive to a minimum reverse power value which varies with the voltage of the interconnected circuits when said switch is closed and responsive to the phase relation between the voltages of said circuits when said switch is open including means controlled by said switch for producing a restraining torque in said relay which varies with the voltage of said circuits and is operative only while said switch is closed.

1,785,719. AUTOMATIC CONTROL SYSTEM. DAVID K. BLAKE, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 19, 1929. Serial No. 333,705. 4 Claims. (Cl. 171—97.)

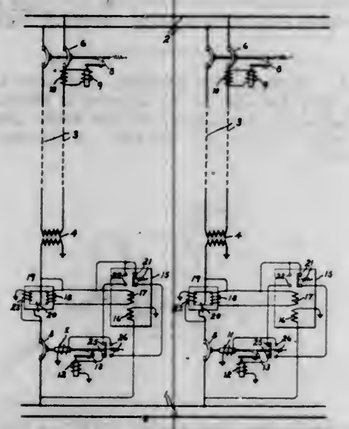
1. In combination, a supply circuit, two load circuits normally supplied therefrom, an auxiliary source, means responsive to the disconnection of one of said load circuits from said supply circuit for effecting the disconnection of the other load circuit from said supply circuit

and the connection of said other load circuit to said auxiliary source, and means responsive to the connection of said one of said load circuits to said supply circuit



for effecting the disconnection of said other load circuit from said auxiliary source and the connection of said other load circuit to said supply circuit.

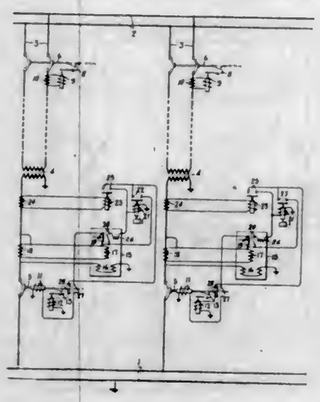
1,785,720. SYSTEM OF ELECTRIC DISTRIBUTION. DAVID K. BLAKE, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 19, 1929. Serial No. 348,337. 13 Claims. (Cl. 175—294.)



1. In combination, two electric circuits, a circuit breaker interconnecting said circuits, a current transformer having three inductively connected windings, two of which are respectively connected so as to be responsive to the voltage of the interconnected circuits and the current flowing between them, and a power directional relay for controlling the opening of said circuit breaker having a winding connected to the third winding of said current transformer.

1,785,721. SYSTEM OF ELECTRIC DISTRIBUTION. DAVID K. BLAKE, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 19, 1929. Serial No. 348,338. 9 Claims. (Cl. 175—294.)

1. In a system of electric distribution, two alternating current circuits, switching means for interconnecting said circuits, and means for effecting the opening of said switching means including a power directional relay responsive to the direction of power flow through said switching means, timing means controlled by said power direction relay for effecting the opening of said switching means when power flows through said switching means

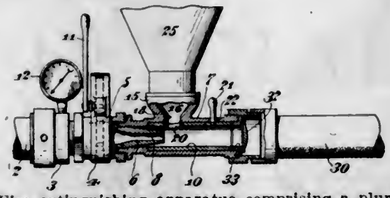


in a predetermined direction for a predetermined time, and overload responsive means for effecting the opening of said switching means independently of said timing means.

1,785,722. CONTROL SYSTEM. DAVID K. BLAKE, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Original application filed July 26, 1927, Serial No. 208,647. Divided and this application filed Nov. 1, 1929. Serial No. 404,148. 9 Claims. (Cl. 171—97.)

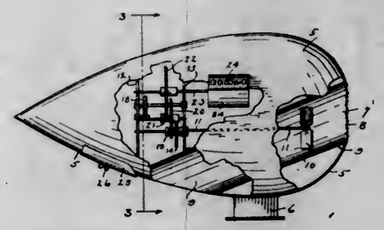
1. In combination, an electric circuit, a circuit breaker in said circuit, a power directional relay including a voltage and a current winding for controlling the opening of said circuit breaker in response to the direction of power flow in said circuit, and means for remotely controlling the opening and closing of said circuit breaker including means for energizing said relay independently of said electric circuit so as to vary the phase relation between the currents in said relay windings.

1,785,723. APPARATUS FOR PRODUCING FIRE-EXTINGUISHING FOAM. FISHER L. BOYD, Haverford, Pa., assignor, by mesne assignments, to National Foam System, Inc., Philadelphia, Pa., a Corporation of Delaware. Filed June 16, 1927. Serial No. 199,277. 2 Claims. (Cl. 169—15.)



1. Fire extinguishing apparatus comprising a plurality of conduits through which water is adapted to flow, the forward ends of said conduits being united to form a single eduction conduit, valves for controlling the flow of water through said conduits, hoppers in communication with the first named conduits, means located within said conduits in operative relation to the discharge ends of said hoppers whereby the flow of water therethrough is adapted to cause discharge of said material from said hoppers into the said conduits, and rotatable tubular valve sections mounted within the first named conduits in operative relation to the discharge ends of said hoppers for opening and closing said discharge ends.

1,785,724. ELAPSED-TIME REGISTER FOR AIRPLANES. CLYDE C. BRANT, Terre Haute, Ind. Filed Aug. 17, 1928. Serial No. 300,196. 2 Claims. (Cl. 161—15.)



1. A portable registering device comprising a housing, a wind tunnel through the housing, an air screw in the tunnel, a guard at the mouth of the tunnel to prevent manipulation of the screw, a registering mechanism driven by the screw and means limiting the rate of rotation of the screw.

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office

Vol. 401—No. 4 TUESDAY, DECEMBER 23, 1930 Price—$10 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscription, $10.00 per annum; including annual index, $11.50; single numbers, 25 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or concerning TRADE-MARKS, PRINTS, and LABELS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

CONTENTS

	Page
Issue of December 23, 1930	717
Adverse Decisions in Interference	717
Changes in Classification	717
Disclaimers	717
Applications Under Examination	718
Commissioner's Decisions—	
Ex parte Root	719
Ex parte Shultz v. Dunham	719
Decisions of the U. S. Courts—	
Maatschappij tot Exploitatie Van Rademaker's Koninklijke Cacao & Chocolade Fabrieken v. Rademaker	720
Adams et al. v. Galion Iron Works & Mfg. Co.	722
Blazek v. X-L Refrigerating Co. et al.	724
Patent Suits	725
Notices of Cancellation	726
Trade-Marks Published (165 Applications)	727
Trade-Mark Registrations Granted	750
Trade-Mark Registrations Renewed	758
Labels	759
Prints	759
Reissues	761
Designs	762
Patents Granted	774

Issue of December 23, 1930

Trade-Marks	189	No. 278,503 to No. 278,691,	inclusive.
T. M. Renewals	34		
Labels	17	No. 38,394 to No. 38,410,	inclusive.
Prints	54	No. 12,866 to No. 12,919,	inclusive.
Reissues	4	No. 17,908 to No. 17,911,	inclusive.
Designs	56	No. 82,870 to No. 82,925,	inclusive.
Patents	692	No. 1,785,725 to No. 1,786,416,	inclusive.
Total	1,046		

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,549,166, E. B. Thurston, Elevator control device, decided December 4, 1930, claim 11.

Pat. 1,639,817, A. H. Taylor, Pieso-electric crystal system, decided November 11, 1930, claims 1 and 8.

Pat. 1,678,471, D. E. Hunter, Heat-resisting filing device, decided December 2, 1930, claims 10, 11, 12, 14, and 15.

Pat. 1,727,994, L. E. La Brie, Brake equaliser, decided December 1, 1930, claims 1, 2, and 7.

Final decision in interference has been rendered against the following trade-mark:

T. M. 174,587, Radio detector and amplifier, O. and T. Electric Corporation of New York, N. Y. Registered October 23, 1923, decided November 12, 1930.

Changes in Classification

Order No. 3,173, December 5, 1930, directs:

In *class 62, Refrigeration* (Division 44), establish the following subclass and definition to follow and be coordinate with subclass 108.

Ice-making apparatus
Freezers
108.5 Molds.

108.5. ICE-MAKING APPARATUS, FREEZERS, MOLDS. Ice-forming molds usually in multiple units and adapted for use with the household type of refrigerators.

The patents contained in this subclass have been taken for the most part from class 62, subclass 111, Ice-making apparatus, Separator.

Disclaimers

1,752,974.—*Charles R. Boggs*, Waban, Mass. Cable. Patent dated April 1, 1930. Disclaimer filed December 6, 1930, by the assignee, *Simplex Wire and Cable Company*.

Hereby enters the following disclaimer, to wit:

A. Your petitioner disclaims from claim 1 of said Letters Patent all cable except cable in which the "non-metallic strip" comprising the "armor" is hard vulcanised fibre or, with respect to the quality of hardness, the equivalent of hard vulcanised fibre.

B. Your petitioner disclaims from claim 5 of said Letters Patent all cable except cable in which the "non-metallic tape" comprising the "armor" is hard vulcanised fibre or, with respect to the quality of hardness, the equivalent of hard vulcanised fibre.

1,772,186.—*Fred L. Lee*, Binghamton, and *Burdett H. Phillips*, of Endicott, N. Y. Duplicating Punching Device. Patent dated August 5, 1930. Disclaimer filed December 5, 1930, by the assignee, *The Tabulating Machine Company*.

Hereby enters this disclaimer to claim 11 in said specification which is in the following words, to wit:

11. The combination with a card punching mechanism and a keyboard adapted to operate said mechanism of a frame carrying said mechanism and keyboard and means to support the frame in either a horizontal position or in an inclined position to permit the punch operator to conveniently operate the keyboard.

Condition of Applications Under Examination at Close of Business December 12, 1930

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 108,101; Trade-Mark Division, 1,339. Oldest new case, Feb. 21, 1930; oldest amended, Mar. 6, 1930.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	May 2	May 14	1,041
126	2. HADEN, C. F., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Velocipedes.	Apr. 13	Apr. 13	1,715
331	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	May 1	Sept. 8	1,201
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	May 3	May 3	1,224
108*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	Apr. 18	Apr. 22	1,242
318	6. LEWERS, A. M., Carbon Chemistry	Mar. 21	Mar. 22	2,397
106	7. JARBOE, C. G., Optics; Photography	Mar. 15	Mar. 15	2,465
133	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Apr. 14	Apr. 22	1,663
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	May 16	May 15	1,564
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	May 9	May 19	1,429
148*	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	May 24	June 3	958
280	12. HENRY, C. C., Machine Elements	Apr. 16	Apr. 17	1,507
154*	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	May 5	May 6	1,322
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	Apr. 14	May 22	1,386
329	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Mar. 14	Mar. 14	2,849
242*	16. SPENCER, C. J., Telegraphy; Telephony	May 12	May 17	1,146
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Mar. 22	Apr. 8	1,635
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Apr. 26	Apr. 28	1,436
236	19. KENNEDY, A. R., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Mar. 14	Mar. 17	2,539
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking	Apr. 18	May 1	1,364
212	21. THOMPSON, T. J., Textiles; Cloth Finishing	Apr. 29	June 18	887
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Apr. 21	May 5	1,508
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Mar. 28	Mar. 26	1,109
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Apr. 3	Apr. 22	1,066
202*	25. BLAKELEY, C. F., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Apr. 17	Apr. 18	1,607
228*	26. HODGES, J. S., Electricity, Generation; Motive Power	Apr. 21	Apr. 16	1,117
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Apr. 17	Apr. 17	1,321
225	28. BENSON, A. R., Internal-Combustion Engines	Mar. 20	Mar. 25	2,073
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	July 16	July 21	572
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	May 12	Sept. 15	977
312	31. HOLMES, W. N., Distillation; Gas, Heating and Illuminating; Mineral Oils	Feb. 21	Mar. 7	2,782
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	June 16	June 16	1,402
152	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	May 26	May 26	2,664
304	34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	June 12	June 13	939
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	Aug. 6	Aug. 22	1,207
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	Apr. 14	Apr. 15	2,248
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Apr. 3	Apr. 12	1,946
145	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Apr. 1	Apr. 1	1,130
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Apr. 18	Apr. 18	1,744
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	Mar. 17	Apr. 28	3,313
125	41. WHITNEY, M. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	May 15	May 22	1,100
223*	42. CUTTING, H. O., Electric Signaling	Apr. 16	Apr. 16	1,674
124*	43. NASH, P. N., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Apr. 23	Apr. 25	1,784
253	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	Mar. 22	Mar 24	2,215
379	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	Mar. 13	Mar. 14	2,454
233	46. TAYLOR, M., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Apr. 21	May 2	1,328
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	Apr. 24	May 7	2,333
212*	48. ROEPKE, O. B., Electricity, General Applications	Apr. 12	Apr. 12	1,288
239	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	May 26	July 23	1,544
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Mar. 12	Mar. 14	2,879
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Mar. 24	Mar. 22	2,414
144	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	May 12	May 12	1,988
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	June 27	July 3	1,021
241	54. WAITE, W. E., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Mar. 5	Mar. 6	2,896
102	55. BOWEN, S. T.—{Bread, Pastry, and Confection Making; Cutlery	Oct. 1	Oct. 1	373
	{Designs	Nov. 18	Dec. 1	345
309	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Mar. 22	Mar. 24	2,310
257*	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Apr. 19	May 13	1,010
270*	58. DOWELL, E. F., Abrading; Typewriting	Mar. 12	Mar. 12	1,581
315	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Cement and Lime; Hides, Skins, and Leather; Fuel	Apr. 29	Apr. 28	1,813
213*	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	Mar. 12	Mar. 18	2,226
269	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Horology; Time-Controlling Apparatus.	Mar. 3	Mar. 12	2,621
245*	62 COCHRAN, W. W., Toys; Amusement Devices; Furniture; Baggage; Package and Article Carriers	Mar. 14	Mar. 17	2,705
300	63. WINKELSTEIN, A. H., Bleaching and Dyeing; Explosive, Pyrotechnic, and Match Compositions; Oils, Fats, and Glue; Preserving; Sugar, Starch, and Carbohydrates.	Mar. 13	Mar. 13	2,534
163	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND.—{Trade-Marks	Nov. 12	Nov. 28	1,220
	{Labels and Prints	Nov. 13	Dec. 1	139

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES

Commissioner's Decisions

EX PARTE ROOT

Decided August 7, 1930

DESIGNS—TITLE—INDEFINITE.

The title to a design given as "An Article of Manufacture" *Held* too broad and indefinite.

Mr. Sol Shappirio for applicant.

ON PETITION.

ROBERTSON, *Commissioner:*

Applicant petitions from the action of the Examiner objecting to the title given to applicant's alleged invention as being too broad and indefinite.

As now amended the title is given as "An Article of Manufacture". The claim reads as follows:

The ornamental design for an article of manufacture substantially as shown.

In *Ex parte Guinzburg*, 341 O. G. 1049, it was pointed out that the statute speaks of a design for an article of manufacture and it was said that "there is nothing to establish that applicant has invented any other article of manufacture than that which he shows".

It has been noted that this decision overrules certain prior decisions in which the use of a title such as applicant is using here was apparently approved. It is thought that the holding in *Ex parte Guinzburg*, supra, is proper and that it is incumbent upon the applicant to give to his design a title which is consistent with the article shown and not merely the generic title, "An Article of Manufacture". What variants of the design shown would be infringement of the patent, if granted, is a question for the courts and not for this Office.

With reference to the patents involved in the case of *Graff* v. *Webster*, 189 F. 902, cited in the petition, it is not correct to say that there "was no specific mention made of any specific article of manufacture nor was one shown". The title of the first of the two designs involved in that case was a "Dish" and of the second a "Border Section". No decision has been cited nor has any been found other than the Commissioner's decisions referred to in the cases cited in *Ex parte Guinzburg*, supra, which would support applicant's contention as to the generic term, "An Article of Manufacture", being a proper title.

The petition is denied.

EX PARTE SHULTZ *v.* DUNHAM

Decided October 20, 1930

1. INTERFERENCE—RIGHT TO MAKE THE CLAIMS—EXPERT TESTIMONY.

It has been repeatedly ruled, both by this Office and the Court of Appeals of the District of Columbia, that expert testimony as to the scope of the issue is not permissible.

2. SAME—SAME—SAME.

Statements, in affidavits of persons alleged to be experts in the particular art, that the inventions of the parties to the interference are different and that the claims in issue are not properly readable upon the disclosure of one of the parties *Held* insufficient to justify permission to take the testimony of the affiants.

ON APPEAL.

HEATING SYSTEM

Messrs. Brown, Jackson, Boettcher & Dienner for Shultz.

Messrs. Barnett & Truman for Dunham.

ROBERTSON, *Commissioner:*

The party Shultz has filed an appeal from the decision of the Law Examiner denying his motion to be permitted to take testimony.

The motion was denied on the ground that the testimony sought to be taken was merely that of experts as to what was disclosed in the Dunham application and that the readability of the issue of an interference on the disclosure of one of the parties is not to be decided on the opinion of experts or on their testimony but must be determined by the Examiner of Interferences in the first instance and the appellate tribunals, if appeal is taken.

On behalf of Dunham it is argued that no appeal lies from such a decision of the Examiner of Interferences. On behalf of Shultz it seems to be argued that the motion should have been granted as a matter of course because Shultz was not under an order to show cause and times had been set for him to take testimony, in other words, that the testimony should be permitted to be taken leaving the question of its materiality to be determined by the tribunals before whom the case may come.

It is not necessary to decide in this case whether an appeal actually lay or not because the question can be considered under any circumstances under the supervisory authority of the Commissioner.

So far as the question that seems to be raised by Shultz is concerned, if the motion ought to be granted as a matter of course, then no reason is seen why it was brought. The times were running for Shultz to take his testimony and, if his contentions were right, all he had to do was take it over the objections of the opposing party, if such objections were made.

[1] The question of the right to take expert testimony as to the issue of an interference has been repeatedly considered by this Office (see *Pym* v. *Hadaway*, 1907 C. D. 189; *Ricketts* v. *Ambruster and Beck*, 1909 C. D. 109; *Von Keller* v. *Hayden et al.*, 1911 C. D. 217; *Cooper* v. *Downing*, 1916 C. D. 227, and *Armstrong* v. *Levy*, 1929 C. D. 113). In these decisions it has been repeatedly ruled that expert testimony as to the scope of the issue is not permissible.

In the case of *Cooper* v. *Downing*, supra, the Court of Appeals of the District of Columbia said:

> The Commissioner of Patents properly refused to hear evidence as to what was intended by Downing's original application and disclosure, holding that it is the duty of the tribunals of the Patent Office, composed of men presumed to be sufficiently expert in understanding technical terms and the state of the art, to determine for themselves what an application discloses.

That holding was approved by the same court in the case of *Armstrong* v. *Levy*, supra, in which, with reference to the argument that error was made in not permitting similar testimony to be taken, the court, after quoting from the Commissioner's decision, said:

> The decision of the Commissioner on this interlocutory motion is assigned as error here, but is without merit. *Cooper* v. *Downing*, 45 App. D. C. 345; 230 O. G. 909.

[2] It is argued on behalf of Shultz that the testimony sought to be taken is not expert testimony in the sense in which that expression is used in the decisions above cited.

A consideration of the motion and the affidavits in support thereof is not deemed to support this contention. In addition to the affidavit of the attorney of record for Shultz there was filed the affidavits of two parties, each of whom qualifies himself in the affidavit as competent to pass upon this question. The closing paragraph of Anderson's affidavit is as follows:

> It is deponent's opinion that the counts in issue, considered in their entirety, apply specifically to the Shults system and not to the Dunham system.

Rohlin, in his affidavit, after stating that he has studied the decisions of the Law Examiner rendered on the motion to dissolve, alleges that in his opinion several assumptions made by the Law Examiner are not correct and not supported by the Dunham application and "not in accordance with known principles of steam heating.".

It is not alleged that the Dunham structure as shown in his application is inoperative but merely that it will not operate in the manner in which it has been construed to operate, and the attorney, in his affidavit, states that in his opinion the inventions of the two parties are different and that a certain operation alleged to take place in an apparatus of the Dunham application under certain conditions will not in fact take place.

These are all questions for argument before the tribunals who have to decide the case.

There is no allegation in any of the affidavits that any apparatus was ever built by or on behalf of Shultz and tested in accordance with the disclosure of the Dunham application. Nor is there any allegation that, if the affiants were called as witnesses, they would testify as to experiments or conduct experiments in the presence of counsel for the opposing party.

The decision in *Weintraub* v. *Hewitt and Rogers*, 1907 C. D. 49, cited in the reply brief of Shultz, is not regarded as authority for taking testimony of the kind here referred to. The facts are not fully stated in that decision, but while the taking of testimony was permitted as to a certain question, the taking of testimony in an attempt to establish that the inventions were in fact not identical was denied. If the language of the decision can be construed as authorizing the introduction of mere expert testimony as to the right of a party to make the claims, it is thought that it is in effect overruled by the later decisions above cited.

It is also argued on behalf of Dunham that, in view of the preliminary statement of Shultz which alleged no date prior to Dunham's filing date except a date of conception, judgment of priority should be now entered in favor of Dunham. Such a motion was denied by the Examiner of Interferences and no reason is found for reviewing his action in that respect.

The party Shultz, in connection with his appeal, has asked for a stay of proceedings until this motion is decided and an extension of time and that, if an oral hearing be permitted, it be set at as early a date as convenient.

It is not customary to set petitions of this kind for hearing and no reason is found for making an exception in this case.

Inasmuch as no extension of Shultz's time for taking testimony, which was set to expire on October 25th, was asked of the Examiner of Interferences and it is not apparent that Shultz desired to take any further testimony except that of the experts referred to in the motion, no reason is seen for directing that the times be reset.

The decision of the Examiner of Interferences is affirmed.

U. S. Court of Customs and Patent Appeals

MAATSCHAPPIJ TOT EXPLOITATIE VAN RADEMAKER'S KONINKLIJKE CACAO & CHOCOLADE FABRIEKEN *v.* RADEMAKER

Nos. 2,352–2,354. Decided June 4, 1930

[41 F.(2d) 406]

1. TRADE-MARKS—REGISTRATION—OWNERSHIP.
   The registration of a trade-mark under the "ten years" proviso of the act of February 20, 1905, makes a prima facie case of ownership.
2. SAME—CANCELLATION PROCEEDING—BURDEN OF PROOF.
   In a proceeding for the cancellation of the registration of the trade-mark the burden of proof is upon the petitioner.
3. SAME—SAME—EVIDENCE.
   The evidence presented in the trade-mark cancellation proceeding *Held* insufficient to overcome the prima facie evidence of the registrant's ownership of the registered mark.

Appeal from the Commissioner of Patents. Reversed.

Messrs. Mock & Blum and *Mr. Charles R. Allen* for the appellant.

Mr. Joseph W. Milburn, Mr. William Wallace White, and *Mr. Wallace White* for the appellee.

HATFIELD, *J.*:

This is an appeal in trade-mark cancellation proceedings from the decision of the Commissioner of Patents affirming the decision of the Examiner of Interferences sustaining the petitions of appellee for the cancellation of appellant's registered trade-marks for use on sugar candy.

Three cancellation proceedings are involved. They were consolidated, and but one record is before us.

The marks were registered under the "10 years" proviso of section 5 of the Trade-Mark Act of February 20, 1905 (15 U. S. C. A. sec. 85), which reads as follows:

> And provided further, That nothing herein shall prevent the registration of any mark used by the applicant or his predecessors, or by those from whom title to the mark is derived, in commerce with foreign nations or among the several States or with Indian tribes which was in actual and exclusive use as at trade-mark of the applicant, or his predecessors from whom he derived title for ten years next preceding February 20, 1905. * * *

The three marks are not identical, but the words "Rademaker's Hopjes" are the dominating features of each, and the case has been presented on this hypothesis.

Appellant's marks were registered as follows: No. 82,808, July 25, 1911; No. 85,756, March 12, 1912; No. 89,860, January 14, 1913.

In his applications for cancellation, appellee alleged that the marks were descriptive of the goods on which they were used; that the registrant did not use the marks in question in the United States "for ten years prior to February 20, 1905"; that the registrant "has been and is making wrongful use of said registrations to interfere with the business of petitioner, in particular to delay entry of petitioner's goods through the customs, and in other ways"; and that the registrations complained of interfere with petitioner obtaining registrations of his alleged trade-marks, the dominating features of which were the words "Rademaker's Hopjes."

[1] It appears from the record that appellee and William Rademaker, managing director of appellant, are brothers; that they were engaged in business with their father, "making cocoa, chocolate and confectionery," including coffee-flavored candy, known as "Rademaker's Hopjes," in Scheveningen, Holland, for several years prior to the year 1899, when the father sold the business to appellant; that appellee was a manager "in his father's business" from 1891 to 1899. In this connection, appellee testified:

> * * * From 1884 up to the end of 1899 I was gradually introduced by my father into the full knowledge of everything going on in his business, commercially, technically and financially. I became fully aware of all details of delivering and shipping goods, engaged travelers and representatives, signed all out-going letters and read and dealt with all in-coming letters, discussed all business matters of some importance with my father, in so far as such matters were not entirely left to me to decide. I dealt with every detail of the packing and wrappers, and of the sale of the goods, and of the marks used. No goods have ever been shipped without my consent or knowledge during the years 1884 up to the end of 1899.

He further testified that "Hopjes" candy was not shipped to, nor sold in, the United States prior to the year 1904, when he left the employ of appellant; that from 1899 to 1904 he was manager of appellant's branch office in London, England; and that in 1904 he went into business for himself. His testimony shows that the first shipment of "Hopjes" candy to the United States under his trade-mark was in 1919.

It appears that William Rademaker, managing director of appellant, was connected with his father's business at Scheveningen, Holland, from 1886 to about 1894; that, from 1894 to 1899, when the father sold his business, he was superintendent of his father's factory located in Cologne, Germany; and that in 1899 he became managing director of appellant, the position he now holds.

William Rademaker testified that "Hopjes" candy, bearing the trade-mark "Rademaker's Hopjes," was sold in Holland and in the United States during the 10-year period 1895 to 1905; that appellant was unable to produce documentary evidence of sales to purchasers in the United States during that period, because the books of appellant and its predecessor covering that period had been destroyed; that, although he could not be positive, due to the many years that had elapsed, he thought that appellant and its predecessor had shipped "Hopjes" candy, bearing the trade-mark "Rademaker's Hopjes," to the Holland Importing Company, or the Dutch Importing Company, at Philadelphia, Pa., and the Lindt Chocolate Company, New York, during the critical period, 1895 to 1905, inclusive.

The testimony of the witness Van Zeeland, was taken October 14, 1926. He testified that he had been in the employ of appellant's predecessor for eight years, as foreman of the "despatch department"; that he has held the same position for appellant since its purchase of the business; and that "Hopjes" candy has been shipped to the United States and sold here under the mark "Rademaker's Hopjes" since prior to 1895. However, he was unable to remember the names of the purchasers in the United States to whom the candy was sold.

It clearly appears from the record that the witness William Rademaker was in error in testifying that the Holland Importing Company of Philadelphia and the Lindt Chocolate Company of New York had purchased "Rademaker's Hopjes" prior to 1905.

Other witnesses testified in the case, but their testimony is not of importance and need not be referred to here.

The Examiner of Interferences held that the burden of proof was upon appellant to establish exclusive and continuous use of the involved trade-marks in the United States for 10 years "next preceding" February 20, 1905, and that he had failed to do so.

The Commissioner of Patents held that appellant's certificates of registration of the involved marks established a prima facie case of ownership, and that the burden of proof was on the petitioner for cancellation. He held, however, that the evidence warranted the conclusion that the goods bearing the involved trade-marks had not been "sold in the United States during the ten year period of the Trade Mark Act," and that, as one of the customers of appellee had been sued by appellant in the Federal court in New York for infringement of the registered marks, appellee had established

"damage to him and his right to file the petitions for cancellation," and accordingly affirmed the decision of the Examiner of Interferences sustaining the petitions for cancellation.

[2] Registration of a trade-mark under the "ten years" proviso of the Trade-Mark Act of February 20, 1905, makes a prima facie case of ownership, and the registrant is entitled to be protected in its use of such mark. In a proceeding for the cancellation of such a registration, the petitioner has the burden of proof. See section 16, Trade-Mark Act of February 20, 1905 (15 U. S. C. A. sec 96); *Thaddeus Davids Company* v. *Davids*, 233 U. S. 461, 34 S. Ct. 648, 58 L. Ed. 1046.

[3] It appears that the petitioner, appellee, was the only witness who testified that the registrant, appellant, and its predecessor had not used the registered trade-marks on "Hopjes" candy during the 10 years immediately preceding February 20, 1905. He presented no documentary or other evidence in corroboration of his testimony in this regard. He testified in 1926, entirely from memory, to events occurring during the period from 1895 to 1904. It is true that his testimony is positive. He testified that he was in a position, during that period, to know the facts. He did not testify as one having used the involved trade-marks in the United States during the statutory period. On the contrary, he testified that he first used his mark in the United States in 1919. Just how he could show probable legal damage or injury, under such circumstances, is not quite clear. *McIlhenny's Son* v. *New Iberia Extract of Tabasco Pepper Company, Limited*, 30 App. D. C. 337; *Battle Creek Sanitarium Company, Limited*, v. *Fuller*, 30 App. D. C. 411; *Hump Hairpin Company* v. *De Long Hook & Eye Company*, 39 App. D. C. 484; *Tim & Co.* v. *Cluett, Peabody & Co.*, 42 App. D. C. 212; *B. V. D. Co.* v. *Potterf*, 43 App. D. C. 33; *Wilson* v. *Hecht*, 44 App. D. C. 33; *Standard Brewery Company* v. *Interboro Brewing Company*, 44 App. D. C. 193; *Edward Smith & Co.* v. *C. Schrack & Co.*, 56 App. D. C. 347, 13 F.(2d) 318. But, however that may be, registration under the proviso in question would be nothing more than a farce if a registrant be required in a cancellation proceeding to establish his right to registration, simply because a petitioner, testifying from memory to events occurring from 21 to 31 years prior thereto, asserts, without any corroboration, that the registrant did not use the involved mark during the statutory period.

It is true that the evidence submitted by the registrant is not very satisfactory. However, two witnesses contradicted the testimony of the petitioner, and testified that the involved trade-marks were used by the registrant during the statutory period.

In our opinion, the petitioner, appellee, has wholly failed to overcome the prima facie evidence of appellant's ownership of the registered marks.

The decision is reversed.

Reversed.

U. S. Circuit Court of Appeals—Sixth Circuit

ADAMS ET AL. *v.* GALION IRON WORKS & MFG. CO.

No. 5,228. Decided July 2, 1930

[42 F.(2d) 395]

1. PATENTABILITY—ROAD GRADERS.
   Certain claims for a road grader *Held* unpatentable since invention was not involved either in transferring shiftability from the front to the rear axle or in the use of a shiftable rear axle, old in the art, in combination with the equally old device of tilting wheels to correct side draft.
2. SAME—INVENTION—SELECTION OF OLD PARTS.
   No invention is involved in the selection and putting together the most desirable parts of different machines in the same art where each separate part is selected solely to perform the obvious purpose for which it was used in the prior art.
3. SAME—SAME—HOW DETERMINED.
   In determining patentability the question of invention must be approached from the standpoint of one skilled in the particular art, not merely one of reasonable mechanical ability in other arts, and consideration must be given to the nature of the problem confronting the patentee.

APPEAL from the District Court of the United States for the Eastern Division of the Northern District of Ohio; D. C. Westenhaver, judge.

Patent infringement suit by Roy E. Adams and others, doing business as J. D. Adams & Co., against the Galion Iron Works & Manufacturing Company. From a decree dismissing bill [28 F.(2d) 225], complainants appeal.

Affirmed.

Mr. D. W. Cooper (*Messrs. Kwis, Hudson & Kent, Mr. D. W. Cooper, Mr. Geo. B. Schley,* and *Mr. Verne A. Trask* on the brief) for the appellants.

Mr. W. L. Day (*Messrs. Day & Day* and *Mr. F. S. Stitt* on the brief) for the appellee.

Before DENISON, KNAPPEN, and HICKENLOOPER, Circuit Judges

HICKENLOOPER, *Cir. J.:*

Appellants brought their action for infringement of Patent No. 1,133,251, issued to Roy E. Adams, March 30, 1915, for a grader. Claims 5, 6, 9, 12, 15, 20, 22, 23, 26, 31, 32, 35, and 41 are in suit. The district court held claims 20 and 26 to be anticipated by patent to J. D. and R. E. Adams, No. 1,014,989, issued January 16, 1912, prior to application of the patent in suit. The remaining claims were held invalid on the grounds of aggregation and want of invention. (D. C.) 28 F.(2d) 225. Claim 22 may be taken as typical of all the claims in suit, including claims 20 and 26, and is printed in the margin.[1] Reissue Patent No. 16,200, which was also held invalid, is not involved in the present appeal.

Road graders, consisting of an adjustable moldboard carried on a frame which is supported by front and rear pairs of wheels, are extremely old and well known to every one. In the course of

[1] 22. A grader, comprising a frame, a pair of front supporting wheels and a pair of rear supporting wheels therefor, said rear supporting wheels as a unit being shiftable and tiltable relatively to said frame, said two adjustments being obtainable independently of each other, and said front supporting wheels as a unit being tiltable relatively to said frame and a mold board carried by said frame.

natural development it was found that the pressure of earth or road material upon the diagonal surface of the moldboard tended to force the rear wheels to a position oblique to the line of travel. This was called side draft. Side draft was very early corrected by tilting or leaning the rear wheels, so as to resist this skidding movement. Compare patents to Adams, No. 310,165, and its reissue. No. 10,666 (1885); to Adams and Pennock, No. 370,589 (1887); to Ridings, No. 829,605 (1906); to R. E. Adams, No. 853,614 (1907); to J. D. and R. E. Adams, No. 1,014,989 (1912), and others. These patents usually covered particularly the mechanical means by which the wheels were tilted, for there were many ways of accomplishing such result.

Another difficulty was encountered which had to be overcome. As the pressure upon the moldboard increased, the grader had a tendency to ride upon the moldboard over the obstructions it was intended to move, thus lifting one of the rear wheels from the ground. This tendency was sought to be corrected by the use of much wider or longer rear axles. It was also common practice, not only to change the angularity of the moldboard, but to permit it to be shifted bodily toward one side or the other. Thus the wider rear axle would not prevent the grader from being reversible, that is, working one side of the road in both directions, but occasions sometimes arose where, because of the configuration of the ground to be traveled, it was desirable that front and rear wheels on the same side track, or travel upon the same line. J. D. and R. E. Adams accomplished this end, in Patent No. 1,014,989, by a shifting of the frame upon the front axle whereby the front and rear wheels upon one side might be brought into alignment. Others had accomplished this same result by providing axles for the rear wheels which were laterally adjustable with respect to the frame. Compare patents to Bunnell and Page, No. 567,293 (1896); to J. B. and B. O. Rhodes, No. 724,042 (1903); to Lathrop, No. 940,169 (1909); to Wold, No. 968,439 (1910), as examples.

During the process of changing the alignment of front and rear wheels, the pivoting of the front axle permitted the change of direction of the front set to reach the new relative position to the rear set. In most of the patents of the prior art the laterally adjustable or shiftable rear axle was also made angularly adjustable to the line of travel, or skewable. (Compare Bunnell and Page, No. 567,293; Rhodes, No. 724,042; and Lathrop, No. 940,169.) It may have been that this was originally thought to be necessary in order to effect, or assist in, the realignment, but the more obvious assumption is that, in these particular patents, skewability of the rear axle was employed as a means of correcting side draft.

Counsel concede, and indeed a review of the prior art compels the conclusion, that tiltable wheels to correct side draft were of ancient origin, and that shiftable rear axles to readjust the alignment of front and rear wheels were old in this particular art when the application for the patent in suit was filed. Whether we consider that the prior art did or did not depend solely upon the skewability of the shiftable rear axle to correct side draft, with its attendant disadvantages, all that Adams did in the patent in suit was to take the shiftable axle of the prior art, useful only in the prior art, or now, to secure alignment of front and rear wheels, and thus increasing reversibility in some cases, and substitute for the skewable axle, as a correction for side draft, an even older means to accomplish the same purpose. The question of aggregation aside, no invention was required to make this substitution.

It is urged that a skewable rear axle and tiltable wheels do not function mechanically in the same manner, nor operate to accomplish the result in the same way, and therefore cannot be considered mechanical equivalents; that a patent may issue for a combination notwithstanding the fact that all the elements were old, provided the combination be new; that the utility of the present combination is manifest, and was not obvious to those skilled in the art, for the shiftable, skewable rear axle and the tiltable rear wheels had been separately known and used for years, and it had occurred to no one to combine them in the same machine, or to substitute the tiltable rear wheels for the skewable axle; that the shiftable axle and tiltable wheels co-operate to produce a new grader which both permits the tracking of front and rear wheels on the same side and overcomes side draft when so operating, to a degree and in a manner unknown to the prior art; and that the total result is a grader which would do a greater amount and more kinds of work than any previously known. These contentions are all urged in answer to the defense of aggregation, except the claim that the advantages of the combination were not obvious to one skilled in the art, and that more than mechanical skill was involved. To this last position alone need we direct attention.

[1, 2] We see no patentable distinction between the laterally-shiftable moldboard, with the relatively shiftable front and rear axles, and tiltable wheels, of the patent to Adams, No. 1,014,989, and the shiftable rear axle and tiltable wheels of the patent in suit. Invention is not involved either in transferring shiftability from the front to the rear axle, or in the use of a shiftable rear axle, old in the art, in combination with the equally old device of tilting wheels to correct side draft. Probably the specific mechanical means of rack bar, gears, pinions, levers, etc., employed by appellants, if new, might have been made the subject of patent for a rear axle which permitted tilting of the wheels and was also shiftable; but the selection and putting together of the most desirable parts of different machines in the same art, where each separate part is selected solely to perform the obvious purpose for which it was used in the prior art, is not invention, but rather the evolution of the mechanical

ability of one skilled in that particular art. *Huebner-Toledo Breweries Co.* v. *Mathews Gravity Carrier Co.*, 253 F. 445, 447 (C. C. A. 6); *Excelsior Steel Furnace Co.* v. *Williamson Heater Co.*, 286 F. 131, 133 (C. C. A. 6); *Thompson* v. *Boisselier*, 114 U. S. 1, 11, 5 S. Ct. 1042, 29 L. Ed. 76; *R. R. Supply Co.* v. *Elyria Iron & Steel Co.*, 244 U. S. 285, 292, 37 S. Ct. 502, 61 L. Ed. 1136. In this connection it should be remarked that none of the claims in suit is limited to the mechanical means employed in constructing the rear axle, but each claims to cover broadly any road grader having both features of shiftable axle and tiltable wheels, by or through whatever mechanisms the result may be accomplished.

Several answers are suggested to the contention of the appellants that invention is disclosed by commercial success and the fact that the elements of a shiftable rear axle and tiltable wheels were both separately known to the trade for many years before it occurred to Adams to combine them in one machine, and yet no other person conceived the idea. It may be that the mere desirability of a shiftable rear axle, which, as we have said, has a very limited necessity in use, was regarded as presenting mechanical problems, the solving of which was not considered worth while. Most users of graders purchase them for a particular type of open work in which a shiftable rear axle might be a convenience, but is not an essential, and it may be that the additional expense incident to producing such a construction was considered as negativing probability of a broad market. The commercial success of appellants' machinery, and the greatly increased use of such graders, are largely attributable to the development of cheap tractors as a motive power, supplanting horses, and to the tremendous activity in road building which came with the use of the automobile. Commercial success, and delay by others in applying their mechanical ability, are thus not as indicative of invention in this case as in many others.

[3] Furthermore, the question of invention must be approached from the standpoint of one skilled in the particular art, not merely one of reasonable mechanical ability in other arts, and consideration must be given to the nature of the problem confronting the patentee. The applicant for a patent is presumed to know of all devices which have already been patented or the subject of prior public use. The only practical solution to correct side draft, and the one in universal use at the time of application for the patent in suit, was the tiltable wheel. The problem which confronted Adams was, therefore, given the shiftable rear axle of the prior art, assuming the desirability of using such an axle in a grader, and apart from the specific mechanical means to be employed in accomplishing the result, how could side draft best be corrected? The only conceivable answer from one skilled in the art would have been "by the use of the common and well-known tiltable wheel, if mechanical means for its use upon a shiftable axle could be devised." To the extent and breadth of the claims in suit, therefore, the patent demonstrates only mechanical ability and not invention. *Concrete Appliances Co.* v. *Gomery*, 269 U. S. 177, 342 O. G. 507, 68 L. Ed. 858.

Being convinced, as we are, of the invalidity of the claims for the reasons above stated, it becomes unnecessary to pass upon the questions of aggregation or the anticipation of claims 20 and 26. The latter present no new feature, and whether they are anticipated or not becomes immaterial.

Judge Knappen participated in the hearing, consideration, and conference in this case, and was engaged in the preparation of an opinion at the time of his death. He therefore did not participate in the preparation of this opinion, although he had expressed his tentative concurrence in the result now announced.

The decree of the district court is affirmed.

U. S. Circuit Court of Appeals—Seventh Circuit

BLAZEK *v.* X-L REFRIGERATING CO. ET AL.

No. 4,267. Decided June 10, 1930

[41 F.(2d) 453]

PATENTABILITY—REFRIGERATING SYSTEM.

Blazek patent for a refrigerating system, claim 5, *Held* invalid as involving nothing more than the rearrangement of the compartments of the structure shown in a prior patent.

APPEAL from the District Court of the United States for the Eastern Division of the Northern District of Illinois.

Patent infringement suit by Joseph Blazek against the X-L Refrigerating Company and another. From a decree dismissing suit, plaintiff appeals.

Affirmed.

Mr. Samuel W. Banning for the appellant.

Mr. C. Paul Parker and *Mr. Earl C. Carlson* for the appellees.

Before ALSCHULER and EVANS, Circuit Judges, and LINDLEY, District Judge.

EVANS, *Cir. J.*:

This appeal is from a decree dismissing appellant's suit brought to recover damages arising out of the alleged infringement of Patent No. 1,553,846, dated September 15, 1915, and covering a refrigerating system. Appellees' defenses were built on alleged noninfringement and invalidity. To support their claim of invalidity, appellees assert (*a*) that the invention was anticipated, (*b*) prior public use, and (*c*) that the inventor, Blazek, obtained his ideas respecting the invention from one Bloom, who was the inventor, if the structure was in fact patentable.

The cause was referred to a master who found that the defense of prior public use was not established, but that the structure embodied in claim 5, the only one in issue, did not, in view of the prior art, constitute invention. Upon exceptions to the master's report, the cause was presented to the district judge who found not only that the patent was invalid for want of patentable novelty over the prior art, but also that the patent was not infringed if valid.

In our opinion, the defense of invalidity for want of patentable novelty is the only one that requires consideration.

In his specifications patentee says that his system is one—

> which utilizes jets of cold brine or other refrigerating medium for the purpose of cooling the air within the compartment wherein perishable articles are stored, and for the purpose of establishing air currents which will tend to withdraw the warmer air from the upper portions of the chamber or compartment, and, after cooling the same, recirculate the air back to the starting point.

It—

> is peculiarly adapted for use in the construction of refrigerating display counters, in that it permits the use of the entire upper portion of the counter for display purposes, and obviates the necessity for providing ice chambers, or the like, which will interfere with the display of goods and are otherwise objectionable, since they frequently interfere with easy access to the goods on display.

Claim 5 reads:

> In a refrigerating counter, a structure having means for dividing it into a relatively high and capacious display compartment for the housing of perishable articles, and a relatively low and restricted underlying spraying space, said spraying space being in communication at each end with the overlying display compartment through air upflow and downflow passages respectively, a spraying pipe adapted to discharge into the spraying space and located in proximity to the downflow air passage, and provided on the side fronting the spraying space with a discharge opening toward said space adapted to direct the flow of a jet of cooling liquid beneath the base of the display compartment to induce air currents through the relatively restricted spraying space and upwardly through the air upflow passage toward which the jet is directed and to cause said air currents to return through the downflow air passage, the base of the spraying space being provided with a drain passage, a brine cooling tank in communication with said drain passage, and a pump in communication on its intake side with the brine tank and on its discharge side with the spray pipe, and means for operating the pump, subetantially as described.

Two patents, one to Gardner and one to Moorehead, are enlightening. The latter covered a refrigerator showcase of several compartments. It is for the display of meats, vegetables, etc. The upper compartment was the display case. Another compartment, somewhat smaller and located below, held a cake of ice. Adjacent to this lower compartment and opening into it was one containing an electrically operated fan which drove the air from the ice compartment up through an opening leading to the display compartment, across it, and down an opening in the floor of the same compartment on the opposite side. The Gardner patent also covers refrigerating apparatus necessitating the use of compartments and the propelling of air cooled by sprays of chilled brine driven by a motor through nozzles. It differs from the patent in suit in two respects. First, its cooling chamber is located at the top while Blazek's is at the bottom of the counter. Likewise, it was not intended for a display counter, but merely refrigeration.

Both structures, however, broadly speaking, made use of compartments, one to store the meat to be displayed and one for holding the cooling material. Each used a motor to drive cooled salt brine through sprays thereby cooling the air and forcing this chilled air through an opening or air passageway in the wall that separates the two compartments and over and across the food and out another air passageway at the opposite end of the food compartment and back to the starting place. Appellant, it is true, has this latter apartment divided into two separate compartments, one above the other. This is an immaterial difference, however, and one that appellant cannot insist upon for appellees' structure differs from appellant's in that it has but one compartment for its cooling and spraying devices.

If Gardner's structure was turned upside down, we would have appellant's structure. The district court held that because appellees' system did not have the three compartments it did not infringe. But setting this distinction to one side as nonessential, we have in Gardner's system inverted, the appellant's structure. Appellant, by this structure, placed his compartment holding the food at the top. Gardner had no such thought but merely sought to cool the food. To relocate the compartment holding the meat and place it at the top of the counter so that it could be used as a display counter, and place the spraying compartment below instead of above the compartment containing the meat, did not, in our opinion, constitute invention.

The decree is affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,012,820, C. B. Cory, Golf game; 1,391,306, R. Eliaser, Game; 1,578,415, Mendes and Lanners, Toy golf game, D. C., E. D. Mich., S. Div., Doc. 2531, *Chester-Pollard Amusement Co., Inc.*, v. *H. B. Leinbach*. Dismissed for want of prosecution Oct. 21, 1930.

1,020,593, J. W. Aylsworth, Phenolic condensation product and method of preparing same; 1,098,608, same, Enamel lacquer or varnish; 1,038,475, L. H. Baekeland, Process of making insoluble bodies derived from phenol alcohols, D. C. Inc., S. D. N. Y., Doc. E 46/74, *Bakelite Corp.* v. *General Plastics, Inc.*, all patents held valid; 1,098,608 also held infringed Oct. 28, 1930.

1,031,864, H. Pauling, Method of concentrating aqueous solutions of nitric acid, D. C. Del., Doc. E 733, *Southern Electro Chemical Co.* v. *Tibiss Artificial Silk Co. of America*. Consent decree dismissing bill Oct. 30, 1930.

1,038,475. (See 1,020,593.)

1,087,017, M. Houdaille, Shock absorber; 1,426,115, A. B. Shults, same, D. C., E. D. Mich., S. Div., Doc. 3386, *Houde Engineering Corp.* v. *Gabriel Snubber Mfg. Co., Inc., et al.* Dismissed under equity rule 57 Oct. 24, 1930.

1,092,870, Spillman and Mooers, Piston for explosion engines or motors; 1,153,902, G. E. Franquist, Piston; 1,402,309, L. P. Mooers, Piston for internal-combustion motor; 1,763,523, F. Jardine, Piston, filed Oct. 24, 1930, D. C., N. D. Ohio, E. Div., Doc. 3561, *The Cleveland Trust Co.* v. *The Lawrence-Ohio Co. et al.*

1,098,608. (See 1,020,593.)

1,125,476, G. Claude, System of illuminating by luminescent tubes, D. C., E. D. Mich., S. Div., Doc. 3170, *The Bellows-Claude Neon Co. et al.* v. *Walker & Co.* Dismissed by consent on merits Oct. 28, 1930.

1,128,145, Inwood and Lavenberg, Means for making box blanks, filed Oct. 29, 1930, D. C., S. D. Tex. (Houston), Doc. 422, *Wirebounds Patents Co. et al.* v. *Continental Wirebound Box Co.*

1,153,089, W. Jay, Fuel-feeding device for internal-combustion engines, D. C., E. D. Mich., S. Div., Doc. 3635, *W. Jay et al.* v. *National Products, Inc.* Dismissed under equity rule 57 Oct. 29, 1930.

1,153,775, F. Gailer, Book-sewing machine, filed Oct. 27, 1930, D. C., S. D. N. Y., Doc. E 56/157, *W. H. Rodemacher & Son Co. et al.* v. *Dess & Talan Co., Inc.*

1,153,902. (See 1,092,870.)

1,180,856, 1,180,858, C. F. Lefever, Liquid gun, D. C., E. D. Mich., S. Div., Doc. 3297, *Daisy Mfg. Co.* v. *All-Metal Products Co.* Dismissed by consent on merits Oct. 24, 1930.

1,180,858. (See 1,180,856.)

1,225,051, H. M. Peters, Portable electric lamp, filed Oct. 24, 1930, D. C. Conn. (New Haven), Doc. E 2095, *Faries Mfg. Co.* v. *Greist Mfg. Co.*

1,276,920, F. F. Hopkins, Refuse burner, D. C. Wash. (Seattle), Doc. 612, *F. F. Hopkins* v. *Springer Mill Co. et al.* Injunction granted Oct. 28, 1930.

1,290,060, A. J. Boland, Enameling furnace, D. C., E. D. Mich., S. Div., Doc. 2765, *A. J. Boland* v. *Victor-Peninsular Co.* Dismissed for want of prosecution Oct. 23, 1930.

1,352,506, E. E. Fowler, Filing and indexing equipment, filed Nov. 1, 1930, D. C., S. D. Ohio, W. Div., Doc. —, *Postindex Co., Inc.*, v. *International Visible Systems Corp.*

1,391,306. (See 1,012,820.) 1,402,309. (See 1,092,870.)

1,426,115. (See 1,087,017.)

1,449,449, J. H. Sayres, Line-throwing gun, D. C., S. D. N. Y., Doc. E 27/286, *J. H. Sayres* v. *Stewart Davit & Equipment Corp.* Consent decree for plaintiff Oct. 31, 1930.

1,534,478, W. J. Wiswall, Manifolding book, filed Oct. 29, 1930, D. C., S. D. Calif., C. Div., Doc. S–63–C, *American Sales Book Co.* v. *R. M. Breeden (Los Angeles Register & Printing Co.).*

1,556,314, J. D'Orio, Game, filed Oct. 28, 1930, D. C., W. D. Wash., N. Div., Doc. 776, *J. D'Orio* v. *G. B. Graham & Co., Inc.*

1,559,520, T. M. Fairbairn, Putting green and similar playing surface, filed Aug. 18, 1930, D. C., E. D. Pa., Doc. 6183, *National Pipe Products Corp. et al.* v. *A. L. Martin.*

1,564,378, H. Stein et al., Bleached and dyed furs; 1,573,200, same, Process of bleaching and dyeing furs, D. C., S. D. N. Y., Doc. E 53/184, *Steinfur Patents Corp.* v. *P. Singer & Bro. et al.* Discontinued Oct. 29, 1930.

1,573,200. (See 1,564,378.) 1,573,415. (See 1,012,820.)

1,592,030. (See 1,698,566.)

1,597,358, O. H. Hansen, Can-filling machine, filed Oct. 30, 1930, D. C., E. D. Wis. (Milwaukee), Doc. 3017, *Hansen Canning Machinery Corp.* v. *Rockfield Canning Co.*

1,600,324, A. Dorsey, Switch mechanism; 1,751,542, same, Clock, filed Oct. 25, 1930, D. C., S. D. N. Y., Doc. E 56/156, *A. Dorsey* v. *Crannell, Nugent & Kranzer.*

1,630,639, T. M. Taylor, Drip sheet, filed Oct. 30, 1930, D. C., S. D. N. Y., Doc. E 56/184, *Keystone Roofing Mfg. Co.* v. *Levitan Co.*

1,641,620, H. P. Brown, Continuous interfold packet; 1,736,427, E. K. Bottle, Construction facilitating multiple carbon separation and control, filed Oct. 30, 1930, D. C., S. D. N. Y., Doc. E 56/185, *American Sales Book Co., Ltd.*, v. *The Autographic Register Co.*

1,669,640, B. C. Warlick, Indoor golf, D. C., S. D. N. Y., Doc. E 55/390, *B. C. Warlick et al.* v. *T. Speed.* Consent decree for plaintiff Oct. 30, 1930.

1,689,732. (See Re. 16,422.) 1,691,661. (See Re. 16,422.

1,698,566, R. J. Simpson, Case for measuring tapes; Des. 71,257, same, Measuring tape; 1,592,030, A. Langsner, Tape reel, D. C. Del., Doc. E 727, *The L. S. Starrett Co.* v. *E. Dietzgen Co.* Consent decree dismissing bill Oct. 30, 1930.

1,702,318, P. J. Rossman, Claim check for parking stations, D. C., E. D. Wis. (Milwaukee), Doc. 2874, *Badger Auto Service Co., Inc.*, v. *Central Parking Stations, Inc.* Decree for plaintiff Oct. 24, 1930.

1,730,399, C. P. Wetmore, Reamer, D. C., E. D. Wis. (Milwaukee), Doc. 2898, *Wetmore Reamer Co.* v. *Waukesha Tool Corp.* Consent decree dismissing bill Oct. 28, 1930.

1,731,967, L. J. Antonsen, Paper excelsior machine, filed Sept. 22, 1930, D. C., N. D. Calif. (San Francisco), Doc. 2689–S, *L. J. Antonsen* v. *J. Scherman (Western Paper Stock Co.).*

1,736,427. (See 1,641,620.) 1,751,542. (See 1,600,324.)

1,763,523. (See 1,092,870.)

Re. 16,422, O. Johnson Adhesive; 1,689,732, 1,691,661, Laucks and Davidson, Vegetable glue and method of making same, D. C., W. D. Wash., N. Div., Doc. (374) 691, *I. F. Laucks, Inc.*, v. *G. H. Osgood et al.* Decree for plaintiff Oct. 20, 1930. Doc. (379) 690, *L. F. Laucks, Inc.*, v. *Balfour Guthrie & Co. et al.* Decree as above.

Re. 16,736, H. O. McMillan, Clamp for concrete-column forms, filed Oct. 29, 1930, D. C., S. D. Ohio, W. Div., Doc. E 709, *H. O. McMillan (M. & M. Wire Clamp Co.)* v. *The H. W. Roos Co.*

Des. 71,257. (See 1,698,566.)

T. M. 87,202, General Roofing Mfg. Co., Roofing; T. M. 103,781, same, Merchandise, appeal filed May 27, 1930, C. C. A., 3d Cir., Doc. 4432, *Certain-Teed Products Corp.* v. *Philadelphia & Suburban Mortgage Guarantee Co.*

T. M. 103,781. (See T. M. 87,202.)

Notices of Cancellation

U. S. PATENT OFFICE, *Washington, Dec. 8, 1930.*

William M. Grant & Son, their assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Peck & Peck, 587 Fifth Avenue, New York, N. Y., to effect the cancellation of the trade-mark registration of William M. Grant & Son, of 31–33 South Market Street, Johnstown, N. Y., No. 170,123, dated July 10, 1923, and the notice of such proceeding sent by registered mail to the said William M. Grant & Son, at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said William M. Grant & Son, their assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Washington, Dec. 9, 1930.*

G. C. Mitchell Co., Inc., its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Kranish Bros., Inc., of 10 West Thirty-seventh Street, New York, N. Y., to effect the cancellation of the trade-mark registration of G. C. Mitchell Co., Inc., No. 238,289, dated January 31, 1928, and the notice of such proceeding sent by registered mail to the said G. C. Mitchell Co., Inc., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said G. C. Mitchell Co., Inc., its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Washington, Dec. 11, 1930.*

The Jell-X-Cell Co., its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Jesse C. Stewart Co., 568–580 South Aiken Avenue, Pittsburgh, Pennsylvania, to effect the cancellation of the trade-mark registration of The Jell-X-Cell Co., of 1360 Allison Avenue, Los Angeles, Calif., No. 217,892, dated September 14, 1926, and the notice of such proceeding sent by registered mail to The Jell-X-Cell Co. at the said address having been returned by the post office as undeliverable, notice is hereby given that unless The Jell-X-Cell Co., its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

TRADE-MARKS

OFFICIAL GAZETTE, DECEMBER 23, 1930

[VOL. 401. No. 4]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for " under the ten-year proviso " are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 301,454. INDIANA LIMESTONE COMPANY, Bedford, Ind., and New York, N. Y. Filed May 28, 1930.

ILCO UNIVERSITY RUSTIC

For Building Stone as It Comes from the Quarry.
Claims use since May, 1926.

Ser. No. 307,250. THE BRENWITT COAL & COKE CO., Toledo, Ohio. Filed Oct. 28, 1930.

SUNBRITE
TENNESSEE COAL
Nature's Work of Perfection

The words "Tennessee Coal" and "Perfection" are disclaimed apart from the mark shown.
For Coal.
Claims use since August, 1925.

Ser. No. 307,614. THE AMERICAN BRIQUET COMPANY, Philadelphia, Pa. Filed Nov. 7, 1930.

MYSTIC BRIQUETS

The exclusive use of the word "Briquets" is disclaimed except in connection with the trade-mark as shown.
For Coal Briquets.
Claims use since Nov. 3, 1930.

CLASS 2

Receptacles

Ser. No. 301,862. THE C. B. DOLGE CO., Westport, Conn. Filed May 31, 1930.

DEODORATOR

For Wall Diffusers for Deodorizing Blocs.
Claims use since January, 1927.

CLASS 3

Baggage, Animal Equipments, Portfolios, and Pocketbooks

Ser. No. 307,473. BLOOMINGDALE BROS., INC., New York, N. Y. Filed Nov. 3, 1930.

Plaza
WARDROBE TRUNK
Bloomingdale's

Applicant disclaims the words "Wardrobe Trunk."
For Trunks.
Claims use since Oct. 3, 1930.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 280,355. HENRY SEGALL, doing business as Arnold Pharmacal Company, New York, N. Y. Filed Mar. 6, 1929.

KEMAPURE

For Olive-Oil Shampoo, Nail Polish, Skin and Tissue Emollient.
Claims use since Apr. 15, 1928.

Ser. No. 287,982. E. R. SQUIBB & SONS, New York, N. Y. Filed Aug. 1, 1929.



The drawing is lined for brown, the mark being usually of that color, but other colors are also employed on occasion.

For Absorbents, Allergens, Alteratives, Analeptics, Analgesics, Anesthetics, Anodynes, Antacids, Anthelmintics, Antiarthritics, Antichlorotics, Antiemetics, Antiepileptics, Antigalactagogues, Antigonorrheics, Antihidrotics, Antilithics, Antineuralgics, Antiparasitics, Antiperiodics, Antiphlogistics, Antipyretics, Antirheumatics, Antiseptics, Antisialagogues, Antispasmodics, Antisyphilitics, Antitoxins, Antizymotics, Aperients, Astringents, Biological Reagents, Cardiac Depressants, Sedatives, and Stimulants, Carminatives, Cathartics, Cerebral Depressants and Stimulants, Cholagogues, Constructives, Corrigents, Counterirritants, Demulcents, Deodorants, Deoxidizers, Depilatories, Depressants, Diaphoretics, Digestives, Diphtheria Products, Discutients, Disinfectants, Diuretics, Ecbolics, Emetics, Endocrines, Errhines, Escharotics, Expectorants, Galactagogues, Gastric Tonics, Hemostatics, Hormones, Hypnotics, Irritants, Laxatives, Hematinics, Hepatic Stimulants, Motor Depressants, Motor Excitants, Mydriatics, Myotics, Narcotics, Nervines, Nutrients, Oxytocics, Pollen Extracts, Prophylactics, Ptyalagogues, Purgatives, Pustulants, Refrigerants (Medicinal), Rabies Vaccine, Resolvents, Respiratory Depressants and Stimulants, Restoratives, Rubefacients, Scarlet-Fever Products, Sedatives, Serums, Sialagogues, Soporifics, Sternutatories, Stomachics, Styptics, Sudorifics, Teniafuges, Thromboplastin, Tonics (General), Urinary Antiseptics, Vasoconstrictors, Vasodilators, Vascular Sedatives, Vaccines (Bacterial), Vermicides, Vesicants, Veterinary Products; Chemicals and Drugs—Specifically; Acacia, Acetphenetidin; Acids—Namely, Acetylsalicylic, Boric, Hydriodic; Amidopyrine, Ammonium Carbonate, Ammonium Chloride; Ampuls—Namely, Camphor, Ergot, Glycerophosphates Compound, Iron Arsenite, and Strychnine, Iron Citrate Green, Mercury Salicylate, Sodium Cacodylate; Analgesic Balm, Antiseptic Powder, Aromatic Cascara, Balsam Peru, Barbital Powder, Barium Sulphate, Bath Toilet Powder, Benedict's Test Solution, Benzoinated Cream, Bismuth Subcarbonate, Bismuth Subgallate, Bismuth Subnitrate, Brown Mixture Modified, Caffeine Citrated, Calcium Phosphate, Carlsbad Salt (Artificial), Castor-Oil Aromatic, Castor-Oil Tasteless, Chloramine, Chloramine Surgical Paste, Chloroform, Chloroform Dropping Ampul, Cinchophen Powder, Codeine Phosphate, Codeine Sulphate, Cod-Liver Oil, Cod-Liver Oil Mint-Flavored, Cod-Liver Oil for Poultry and Animal Husbandry, Cod-Liver Oil for Dogs, Cold Cream, Collodion Flexible, Compound Licorice Powder, Corn Collodion, Cream of Tartar, Dental Cream, Dental Lotion, Dextrose, Dusting Powder, Dextro-Vitavose, Emulsion Castor Oil, Ephedrin Preparations; Elixirs—Namely, Ammonium Valerate, Cuprifertum, Gentian Glycerinated, Glycerophosphates Compound, Apral, Iron, Quinine, and Strychnine, Iron, Quinine, and Strychnine Phosphate, Pepsin, Bismuth, and Strychnine, Terpin Hydrate, and Codeine; Ephedrine Hydrochloride, Epsom Salt, Epsom-Salt Special, Essence Pepsin, Ether, Ethyl Bromide; Extracts—Namely, Cascara Sagrada Powdered; First-Aid Cream, First-Aid Powder; Fluids and Fluid Extracts—Namely, Asclepias, Benzoin for Tincture, Buchu, Cascara Sagrada, Cascara Sagrada Aromatic, Cinchona, Colchicum, Ergot, Gentian Compound, Grindelia Soluble, Hyoscyamus (Henbane), Ipecac, Larkspur, Rose Soluble, Senega, Valerian; Glycerite Acid Tannic, Granular Effervescent Sodium Phosphate, Granular Effervescent Sodium Phosphate Compound (Antilithic), Hexamethylenamine, Hydrogen-ion Concentration Test Papers, Iodine Resublimed, Ipral Powder, Iron and Strychnine Citrate, Iron Peptonized and Manganese, Jalap, Lanoline (Toilet), Lead Acetate, Lime Hydrated; Liniments—Namely, Camphor, Soft Soap; Liquid Court Plaster, Liquid Petrolatum, Liquid Petrolatum with Agar, Litmus Paper; Lozenges—Namely, Benzoic Acid and Catechu Compound, Brown Mixture with Ammonium Chloride, Brown Mixture without Opium, Brown Mixture and Ammonium Chloride without Opium; Magnesia Oxide Heavy, Magnesia Oxide Light, Magnesium Carbonate, Magnesium-Hydroxide Suspensions, Manganese Hypophosphite, Menthol, Methyl Salicylate, Magnesia Wafers, Milk of Bismuth, Milk Sugar, Mixture Glycyrrhiza Compound without Opium, Mixture Rhubarb Compound, Morphine Sulphate, Neocinchophen, Novargentum; Ointments—Namely, Acid Boric, Blue, Mercury Ammoniated, Mercury Oxide Yellow, Prophylactic, Sulphur, White Petrolatum, Zinc; Opium Powdered, Petrolatum White, Petrolatum Yellow, Phenolphthalein, Potassium Acetate, Potassium Bitartrate, Potassium Bromide, Potassium Citrate, Potassium Iodide, Potassium Permanganate, Powder Jalap Compound, Protargentum, Rhubarb Powdered, Rhubarb and Soda, Rochelle Salt, Saccharin, Salol, Silver Nitrate, Silver-Nitrate Solution Wax Ampuls, Sodium Bicarbonate, Sodium Bromide, Sodium Chloride, Sodium Citrate, Sodium Glycocholate, Sodium Iodide, Sodium Phosphate, Sodium Salicylate, Sodium Sulphate, Solargentum; Solutions—Namely, Alkaline Aromatic, Antiseptic, Cresol Compound, Iron Iodide, Peptonized Iron and Manganese, Potassium Arsenate; Spirts—Namely, Ammonia Aromatic, Camphor, Ether Nitrous; Strontium Bromide, Suppositories, Glycerin (Adults), Suppositories, Glycerin (Infants' Long); Syrups—Namely, Acid Hydriodic, Hypophosphites Compound, Hypophosphites Compound Cloudy, White-Pine Compound; Tablets—Namely, Aspirin, Acid Arsenous, Acid Benzoic and Belladonna Compound, Aconite Fluidextract 1 Min., Aconite and Belladonna, Aconite and Colchicum Compound, Ammonium Chloride and Sanguinarine Compound, Antipyrine and Diacetylmorphine Compound, Asafetida, Barbital, Bismuth and Magnesia, Bismuth and Sodium Bicarbonate, Bismuth, Magnesia, and Sodium Bicarbonate, Bismuth Subnitrate, Blank, Borax and Sodium Salicylate Compound, Buchu Compound, Caffeine Compound, Calomel, Calomel and Soda, Cannabin Compound, Cannabis and Hyoscyamus Compound, Capsicum and Nux, Cascara Compound Hinkle, Cascara Sagrada Extract, Cathartic Compound, Cathartic Compound Improved, Cerium Oxalate and Cocaine Compound, Chloramine, Chlorodyne (Chocolate Coated), Chromium Sulphate, Cinchophen, Citabs, Codeine, Codeine Phosphate, Codeine Sulphate, Coryza (C) Modified, Cystitis, Digitalis, Dover's Powder and Aconite Compound, Dover's Powder and Belladonna Compound, Emmenagogue Improved, Ephedrine Hydrochloride, Glycerophosphates Compound, Helonias and Witch-Hazel Compound, Hexamethylenamine, Intestinal Antiseptic, Ipral, Iron, Arsenic, and Strychnine, Lithia Effervescent, Magnesia and Soda, Mercury Bichloride Compound (Bernay's Modified), Mercury Bichloride Compound (Wilson's), Mercury Iodide, Mercury and Iron, Migraine, Migraine Improved, Mixed Treatment No. 1, Morphine Sulphate, Neocinchophen, Nitroglycerin Compound "A", Occult Blood Test, Opium, Camphor, and Lead, Opium Extract, Opium Powder, Papain Compound, Phenacetin (Acetphenetidin), Phenolphthalein, Potassium Chlorate, Potassium Iodide, Potassium Permanganate, Protargentum, Quinine and Camphor Compound, Rhinitis, Rhubarb Compound, Saccharin, Santonin and Calomel, Santonin and Calomel "C", Sedative

(Dr. Baer), Sedative (Dr. Brown), Soda Mint, Serenium, Soda Mint and Pepsin, Sodium Bicarbonate, Sodium Chloride, Sodium Citrate, Sodium Iodide with Chocolate, Sodium Salicylate, Solargentum, Sparteine Sulphate, Strychnine Sulphate, Sumbul Compound (Dr. Goodell), Tartar Emetic and Ipecac (Dr. Fowler), Terpin Hydrate Compound "A", Thyroxin, Triple Bromides Effervescent, Urease, Uterine Astringent and Antiseptic; Hypodermic Tablets—Namely, Codeine Phosphate, Codeine Sulphate, Morphine Sulphate, Morphine and Atropine, Scopalamine (Hyoscine) Hydrobromide, Strychnine Nitrate, Strychnine Sulphate; Talcum Powders—Namely, Bouquet, Carnation, Nursery, Unscented, Violet; Talcum Purified, Thymol, Thyroxin (Crystalline); Tinctures—Namely, Aconite Stabilized, Asafetida, Belladonna, Benzoin Compound, Cantharides, Cinchona Compound, Digitalis, Gentian, Hyoscyamus, Iodine, Ipecac and Opium, Iron Chloride, Nux Vomica, Opium, Opium Camphorated, Strophanthus, Valerian, Veratrum Viride, Viburnum Opulus Compound; Tragacanth, Valerian, Vanishing Cream, Vinegar Tarragon, Vitavose, Zinc Oxide (Light), Zinc Sulphate, Cod-Liver Oil with Viosterol, Viosterol in Oil, Cod-Liver Oil with Viosterol Mint Flavored; Allergens—Namely, Various Individual and Group; Amniotin; Antibacterial Serums—Namely, Antimeningococcic, Antipneumococcic, Antistreptococcic, Antistreptococcic Rheumatic, Poliomyelitis Antistreptococcic; Arsphenamine Products—Namely, Ampuls Sterile Double-Distilled Water, Arsphenamine, Neoarsphenamine, Sulpharsphenamine, Solution of Arsphenamine; Autogenous Vaccines, Bacillus Bulgaricus; Biological Reagents—Namely, Antipara-Typhoid Serum "A" Antipara-Typhoid Serum "B", Antipneumococcic Serum, Antisheep Amboceptor, Antityphoid Serum, Para-Typhoid "A" Antigen, Para-Typhoid "B" Antigen, Syphilitic Antigen, Typhoid Antigen, Wassermann Reaction; Diphtheria Products—Namely, Diphtheria Antitoxin, Diphtheria Toxin for Schick Test, Diphtheria Toxin-Antitoxin Mixture, Diphtheria Toxoid; Erysipelas Antitoxin, Insulin, Leucocyte Extract, Loeffler's Blood-Serum Culture Medium, Normal Horse Serum, Parathyroid Hormone, Pituitary Solution, Poison-Ivy Toxol, Poison-Oak Toxol; Scarlet-Fever Products—Namely, Scarlet-Fever Streptococcus Antitoxin, Scarlet-Fever Streptococcus Antitoxin (Authorized) for Blanching Test, Scarlet-Fever Streptococcus Toxin (Authorized) for Dick Test, Scarlet-Fever Streptococcus Toxin (Authorized) for Active Immunization; Smallpox Vaccine, Tetanus Antitoxin, Thromboplastin Hypodermic, Thromboplastin Local; Bacterial Vaccines—Namely, Acne Vaccine, Catarrhal Vaccine Combined, Colon, Gonococcus, Gonococcus Combined, Influenza, Influenza Combined, Pneumococcus, Pneumococcus Streptococcus, Staph Acne, Staphylococcus, Staphylococcus Streptococcus, Staphylococcus Combined, Streptococcus, Typhoid Immunizing, Typhoid Combined Immunizing, Van Cott's Vaccine, Whooping-Cough Curative, Whooping-Cough Immunizing, Whooping-Cough Combined; Treatment Sets of Pollen Allergen Solutions, Pollen Allergen Solutions Diagnostic, Rabies Vaccine Pasteur, Rabies Vaccine Semple, Anticanine Distemper Serum, Canine Distemper Vaccine, Canine Rabies Vaccine, Leucocyte Extract, Tetanus Antitoxin Veterinary.

Claims use since May, 1917.

Ser. No. 290,505. MADAME DORDILLY DITE DURDILLY NÉE CLEMENCE JACOTIN, Paris, France. Filed Oct. 2, 1929.

L'ÉPILOR VÉGÉTAL

Applicant disclaims the word "Vegetal" apart from the mark shown.

For Hair-Removing Wax.

Claims use since Oct. 1, 1911.

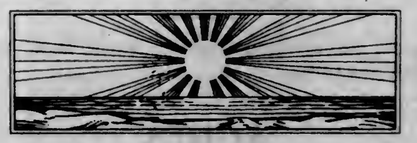
Ser. No. 291,091. PAUL HARTMANN AKTIENGESELLSCHAFT, Heidelheim, Wurttemberg, Germany. Filed Oct. 15, 1929.

Kosmoplast

For Medicated Plasters, Cream for Preventing Sore Feet, Ointments and Creams for the Care of the Skin, Ointment for the Treatment of Wounds and Skin Ailments.

Claims use since Apr. 10, 1929.

Ser. No. 295,974. ELIZABETH M. BLAIR, doing business as Blair Mfg. & Sales Company, Chicago, Ill. Filed Feb. 13, 1930.



For Clay Cream Used in the Treatment of Burns, Cuts, Bruises, Boils, and Sore Eyes.

Claims use since Oct. 26, 1925.

Ser. No. 299,634. HENRY W. VON DAMM, doing business as F. H. Von Damm, Brooklyn, N. Y. Filed Apr. 29, 1930.

Old Dutch

The words "Old Dutch" are hereby disclaimed apart from the mark as shown for the purpose of this registration only.

For Bird Medicines and Insecticides.

Claims use since May, 1929.

Ser. No. 302,389. THE HETTRICK MANUFACTURING COMPANY, Toledo, Ohio. Filed June 18, 1930.

HUDSON BAY

For Liquids Used in the Waterproofing of Fabric Materials.

Claims use since March, 1929.

Ser. No. 303,210. THE REED LABORATORIES INCORPORATED, Kew Gardens, N. Y. Filed July 7, 1930.

"WICKSTICK"

The Charm Stick for Cheeks and Lips.

No claim is made to the word "The Charm Stick for Cheeks and Lips" apart from the mark as shown.

For Cosmetics—Namely, Solid and Liquid Preparations for Beautifying the Person, Eyebrow Pencil, Cheek and Lip Rouge, and Sticks and Pencils for Applying Said Preparations and Rouge.

Claims use since May 2, 1930.

Ser. No. 303,794. HOWARD L. BERKEY, doing business as The Dehydrating Company, Tulsa, Okla. Filed July 24, 1930.

DEHYDRO

For Petroleum-Treating Compound, Which is a Chemical Reagent Used for the Breaking of Crude Petroleum Emulsions.
Claims use since May 1, 1928.

Ser. No. 303,920. NYAL COMPANY, Detroit, Mich. Filed July 28, 1930.

AGNES SOREL

"Agnes Sorel" is the name of a deceased historical character. Applicant is the owner of registered trademarks #70,221 covering the name "Agnes Sorel" and #79,750 covering the portrait of Agnes Sorel, deceased.
For Face Powder, Facial Astringent, Skin Tonic, and Cleansing, Nourishing, and Foundation Creams.
Claims use since about June 1, 1907.

Ser. No. 304,140. EDWARD M. HARRIS, doing business as Harris Manufacturing Co., Riverside, N. J. Filed Aug. 2, 1930.

Harris's

The drawing is lined for the color blue.
For Radiator Cement for Repairing Leaks in Automobile Radiators and Water Jackets.
Claims use since Jan. 28, 1918.

Ser. No. 304,189. CUMO, LIMITED, Portadown, Armagh, Northern Ireland. Filed Aug. 4, 1930.

Cumo.

For General Medicinal Tonic.
Claims use since Mar. 14, 1910.

Ser. No. 305,422. TENNESSEE PRODUCTS CORPORATION, Nashville, Tenn. Filed Sept. 6, 1930.

ROYAL PURPLE

For Antifreeze Mixtures—Namely, Methanol When Used for Such Mixtures.
Claims use since Aug. 19, 1930.

Ser. No. 305,462. HAROLD H. HEDRICK, doing business as Dr. Hedrick Laboratories, Chicago, Ill. Filed Sept. 8, 1930.

Dr. Hedrick's FOOT LOTION

Applicant disclaims the words "Foot Lotion."
For Foot Lotions.
Claims use since June 15, 1929.

Ser. No. 306,487. EXCELCIS PRODUCTS COMPANY, Salt Lake City, Utah. Filed Oct. 7, 1930.

EX-CEL-CIS

For Lotions—Namely, Astringents and Whitening and Healing Lotions for the Face and Hands; Creams—Namely, Cleansing, Foundation, and Tissue-Bleach Creams for Face and Hands; and Toilet Articles—Namely, Brilliantine, Hair Tonic, Dental Cream, Bay Rum, Perfumes, Rose and Sachet Powders, Hair Oil, Shampoo, Depilatory, Rouge, Lip Stick, Salves, Face Powders, and Complexion Clays.
Claims use since Sept. 1, 1928.

Ser. No. 306,515. SAV-SILK, INC., Medina, N. Y. Filed Oct. 6, 1930.

PRE-SILK

No claim being made to the word "Silk" apart from the mark shown.
For Preservant, Cleanser, and Water Softener.
Claims use since Aug. 1, 1929.

Ser. No. 306,735. FRACY, INC., New York, N. Y. Filed Oct. 14, 1930.

STYPSTIK

For Antiseptic.
Claims use since Aug. 15, 1930.

Ser. No. 306,789. LE LABORATOIRE DU BACTÉRIOPHAGE, Paris, France. Filed Oct. 15, 1930.

BACTÉ-RHINO-PHAGE

For Agents in Ampoule Form, Destructive of Bacteria or Bacterialike Bodies and Used in the Treatment of Diseases of the Respiratory Tract.
Claims use since Oct. 9, 1928.

Ser. No. 306,910. FULLER WISHART, Charlotte, N. C. Filed Oct. 18, 1930.

RICHELEINE

For Face Powder.
Claims use since Feb. 1, 1930.

Ser. No. 306,925. THE AEROSOL COMPANY, Detroit, Mich. Filed Oct. 20, 1930.

SED-O-FAX

For Medicine for the Relief of Pain.
Claims use since Oct. 1, 1930.

Ser. No. 306,975. CHIN TOM, Idaho Falls, Idaho. Filed Oct. 20, 1930.

CHIN TOM'S ACNE-OL

The word "Acne" is disclaimed apart from the other features of the mark as shown in the drawings.
For Healing and Antiseptic Solution.
Claims use since Aug. 25, 1930.

Ser. No. 306,992. JOHN BELL, New York, N. Y. Filed Oct. 21, 1930.

PINETRINE

For Liniment for the Relief of Muscular Pains and Aches, Rheumatic Conditions, Neuritis, Neuralgia, Lumbago, Arthritis, Sprains, and Similar Conditions.
Claims use since Sept. 25, 1930.

Ser. No. 307,379. CHARLES H. WAGNER, doing business as C. H. Wagner, Covington, Ky. Filed Oct. 30, 1930.

FOODAID

For a Medicinal Preparation for Digestive Disturbances, Indigestion and Constipation, Sour Stomach, Gas, Belching, and Bloating.
Claims use since September, 1928.

Ser. No. 307,449. GEORGE H. HARRIS, doing business as Florida Chemical Company, Tampa, Fla. Filed Nov. 1, 1930.



For a Medicinal Preparation for the Treatment of Constipation, Biliousness, Dizziness, Indigestion, Sour Stomach, Headaches, Backache, Fever, Diarrhea, Kidney Trouble, and Dropsical Conditions.
Claims use since Oct. 16, 1930.

Ser. No. 307,466. CATHERINE L. ARMSTRONG, doing business as Mme. Leontine, New York, N. Y. Filed Nov. 3, 1930.

LEONTINE'S

For Toilet Preparations and Cosmetics—Namely, Cleansing Cream, Tissue Cream, Face Cream, Preparation in the Form of Crystals for Face Wash and Stimulant and Acting as an Astringent.
Claims use since Nov. 18, 1929.

Ser. No. 307,530. LUCAS KIL-TONE COMPANY, Vineland, N. J. Filed Nov. 4, 1930.

OIL-TONE

No claim is herein made to the word "Oil" appearing on the drawing apart from the mark as shown.
For Oil Sprays for Insecticide Purposes.
Claims use since Sept. 8, 1930.

Ser. No. 307,846. ULYSSES E. FANCHER, doing business as Fancher's Saltex Company, Columbus, Ohio. Filed Nov. 13, 1930.

FANCHER'S SALTEX

For Obesity Preparation.
Claims use since August, 1916.

Ser. No. 307,853. NIAGARA ALKALI COMPANY, Niagara Falls, N. Y. Filed Nov. 13, 1930.



PEARLPARA

For Insecticides, Disinfectants, and Deodorants.
Claims use since Oct. 1, 1930.

Ser. No. 307,910. WERNER DRUG & CHEMICAL CO., Cincinnati, Ohio. Filed Nov. 14, 1930.

GLYCALOIDS.

For a Liquid Preparation for Internal Use for Coughs, Colds, and Abnormal Respiratory Ailments and Diseases and an Ointment for the Same for External Use.
Claims use since July 1, 1909.

CLASS 7

Cordage

Ser. No. 306,849. THE AMERICAN STEEL AND WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio; Chicago, Ill.; Pittsburgh, Pa.; New York, N. Y.; Worcester, Mass.; Hoboken, N. J. Filed Oct. 17, 1930.

Yellow Reel

No claim is made to a reel colored yellow.
For Wire Rope.
Claims use since Sept. 11, 1930.

CLASS 10

Fertilizers

Ser. No. 299,633. HENRY W. VON DAMM, doing business as F. H. Von Damm, Brooklyn, N. Y. Filed Apr. 29, 1930.

Old Dutch

The words "Old Dutch" are hereby disclaimed apart from the mark as shown for the purpose of this registration only.
For Garden Fertilizers.
Claims use since September, 1929.

Ser. No. 304,498. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Aug. 12, 1930. Under section 5b of the Act of 1905 as amended in 1920.

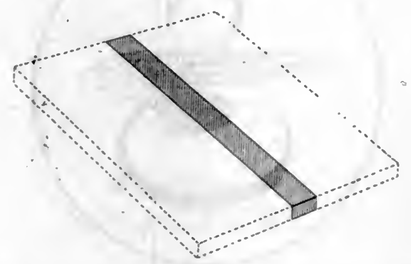
DU PONT

For Fertilizers and Acid Phosphates.
Claims use since Dec. 15, 1928.

CLASS 11

Inks and Inking Materials

Ser. No. 304,665. OLD TOWN RIBBON & CARBON COMPANY, INC., Brooklyn, N. Y. Filed Aug. 15, 1930.

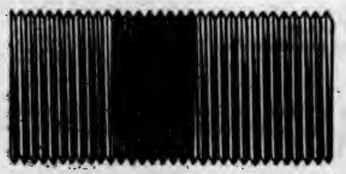


The representation of a box as it appears in the drawing is disclaimed. The trade-mark comprises a red stripe extending substantially down the center of the top of the package or box and over the end of the box.
For Carbon Paper.
Claims use since October, 1926.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 306,078. WHEELING STEEL CORPORATION, Wheeling, W. Va. Filed Sept. 25, 1930.



Applicant disclaims the showing of the fittings per se. The trade-mark consists of a copper-colored band applied directly to the goods so as to extend transversely thereabout, and more particularly around a portion containing threads.
For Metal Pipe Fittings.
Claims use since May 27, 1930.

Ser. No. 307,661. DIXON VALVE AND COUPLING COMPANY, Philadelphia, Pa. Filed Nov. 8, 1930.

BOSS

For Hose Couplings.
Claims use since March, 1916.

Ser. No. 307,662. DIXON VALVE AND COUPLING COMPANY, Philadelphia, Pa. Filed Nov. 8, 1930.

TRI-DU PLEX

For Hose Couplings.
Claims use since July, 1928.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 306,895. KENSINGTON STEEL COMPANY, Chicago, Ill. Filed Oct. 18, 1930.

SUPERMANG

For Steel Castings.
Claims use since Sept. 30, 1930.

Ser. No. 307,297. ALLOYS FOUNDRY CORPORATION, New York, N. Y. Filed Oct. 29, 1930.

AFCOLITE

For Aluminum Castings.
Claims use since May 29, 1930.

CLASS 17

Tobacco Products

Ser. No. 307,196. VAL M. ANTUONO, Tampa, Fla. Filed Oct. 27, 1930.



The words "Blasco" and "Habana" appearing in the drawing are hereby disclaimed apart from other features of the mark shown.
For Cigars.
Claims use since Apr. 2, 1898.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 285,042. I. SIKORSKY, College Point, N. Y. Filed June 4, 1929.



SIKORSKY

Without waiving any common-law rights no claim is hereby made to the use of the word "Sikorsky" apart from the other features of the mark shown.

For Toy Airplanes; Toy Airplane Parts—Namely, Wings, Bodies, Tails, Floats, Control Surfaces, Landing Gear, Interconnecting Members, and Propellers—and Parts of Said Parts.

Claims use since June 14, 1927.

Ser. No. 285,043. I. SIKORSKY, College Point, N. Y. Filed June 4, 1929.



For Toy Airplanes and Toy Airplane Parts—Namely, Wings, Bodies, Tails, Floats, Control Surfaces, Landing Gear, Interconnecting Members, and Propellers—and Parts of Said Parts.

Claims use since June 14, 1927.

Ser. No. 285,044. I. SIKORSKY, College Point, N. Y. Filed June 4, 1929.



For Toy Airplanes and Toy Airplane Parts—Namely, Wings, Bodies, Tails, Floats, Control Surfaces, Landing Gear, Interconnecting Members, and Propellers—and Parts of Said Parts.

Claims use since Aug. 8, 1908.

Ser. No. 306,017. CLEVE F. SHAFFER, doing business as Dek Sales Co., San Francisco, Calif. Filed Sept. 24, 1930.

Deck

For Games Employing Hand Pieces and Hand Pieces for Playing Games.

Claims use since Jan. 15, 1922.

Ser. No. 306,881. HERBERT D. CLAYTON, doing business as Clayton and Company, Hill City, Kans. Filed Oct. 18, 1930.



The portrait forming a feature of the mark comprises a fanciful representation of a young school girl.

For Merry-Go-Rounds.

Claims use since Sept. 1, 1930.

Ser. No. 307,200. CORTLAND LINE COMPANY, INCORPORATED, Cortland, N. Y. Filed Oct. 27, 1930.

VICTOR

For Silk Fishlines.

Claims use since June 13, 1930.

Ser. No. 307,881. M. N. ARNOLD SHOE COMPANY, North Abington, Mass. Filed Nov. 14, 1930.

ARNOLD
SHU-CADDY

For Bag for Carrying Golf Balls and Shoes.

Claims use since Oct. 23, 1930.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 285,993. TRANSIT MIXERS, INC., San Francisco, Calif. Filed June 22, 1929.

TRANSIT
SYSTEM
MIXED CONCRETE

The words "System" and "Mixed Concrete" are disclaimed apart from the mark shown.

For Machine Trucks for Transporting Cementitious Materials and for Mixing Same in Transport.

Claims use since Apr. 12, 1929.

Ser. No. 300,787. DODGE MANUFACTURING CORPORATION, Wilmington, Del., and Mishawaka, Ind. Filed May 19, 1930.



No claim is made of exclusive right to the word "Drive" per se, provided that this disclaimer is not to be construed as a disclaimer of any part or feature of the trade-mark shown.

For Certain Belt Drives or Power Transmissions; Comprising Parallel Belts and Driving and Driven Sheaves or Comprising a Single Belt and Driving and Driven Sheaves, and for the Said Parts Thereof.

Claims use since Apr. 10, 1930.

Ser. No. 304,996. CURTIS MANUFACTURING COMPANY, doing business as Curtis Pneumatic Machinery Company and Curtis Saw Company, Wellston Station, Mo. Filed Aug. 25, 1930.



Applicant claims ownership of registration No. 105,389 issued July 20, 1915. In the drawing the body of the oval is lined for red and the cross bars for blue.

For Air-Compressor Outfits or Units, Which Include Air Tanks, and Hoists Operated by Compressed Air.

Claims use since 1920.

Ser. No. 305,306. AMERICAN SLICING MACHINE CO., Chicago, Ill. Filed Sept. 4, 1930.

AMERICAN EAGLE

For Slicing Machines.

Claims use since Aug. 20, 1930.

Ser. No. 306,978. UNITED CONVEYOR CORPORATION, Chicago, Ill. Filed Oct. 20, 1930.

HYDRO-STEAMATIC

For Combination Pneumatic and Sluice Conveyors and Conveying Systems, Comprising a System of Pipes Forming a Conduit and Mechanism Operable to Create a Suction Through the Pipes and to Provide a Sluice for Conveying Ash and Similar Comminuted Material.

Claims use since Nov. 1, 1929.

Ser. No. 306,979. UNITED CONVEYOR CORPORATION, Chicago, Ill. Filed Oct. 20, 1930.

HYDRO-NUVEYOR

For Combination Pneumatic and Sluice Conveyors and Conveying Systems, Comprising a System of Pipes Forming a Conduit and Mechanism Operable to Create a Suction Through the Pipes and to Provide a Sluice for Conveying Ash and Similar Comminuted Material.

Claims use since Oct. 1, 1929.

Ser. No. 307,292. TRIMONT MANUFACTURING COMPANY, Boston, Mass. Filed Oct. 28, 1930.



No claim is made to the exclusive use of the representation of a pipe cutter wheel. The mark consists of a red band applied to the central or hub portion of a pipe cutter wheel. The lining on the drawing indicates the color red.
For Pipe-Cutter Wheels.
Claims use since Oct. 8, 1930.

Ser. No. 307,300. HERBERT BORGMANN, St. Louis, Mo. Filed Oct. 29, 1930.

PALMOLIVE

For Safety-Razor Blades.
Claims use since July 26, 1930.

Ser. No. 307,493. THE INTERNATIONAL POSTAL SUPPLY COMPANY, Brooklyn, N. Y. Filed Nov. 3, 1930.



The geographical abbreviation "N. Y." is disclaimed.
For Stamp-Canceling Machines, Postage-Metering Machines, Sealing Machines, Mail Facing or Pick-Up Tables, and Check-Endorsing Machines.
Claims use since Oct. 11, 1930.

Ser. No. 307,859. SELMA MERCANTILE CORPORATION, New York, N. Y. Filed Nov. 13, 1930.



For Diamond Tools.
Claims use since Jan. 20, 1930.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 305,271. ETHYL GASOLINE CORPORATION, New York, N. Y. Filed Sept. 3, 1930.

ETHYL

For Knock-Testing Engines.
Claims use since July 21, 1930.

Ser. No. 306,013. PARAMOUNT PUBLIX CORPORATION, New York, N. Y. Filed Sept. 24, 1930.

PARAMOUNT PICTORIAL

No claim being made to the word "Pictorial" except as the same may be used in conjunction with the other features of the mark.
For Motion Pictures.
Claims use since Sept. 9, 1930.

Ser. No. 307,334. UNIVERSAL CLOCK & GLOBE CORP., Wilmington, Del. Filed Oct. 29, 1930.

UNICLOK

For Geographical and Astronomical Globes.
Claims use since June 1, 1930.

CLASS 27

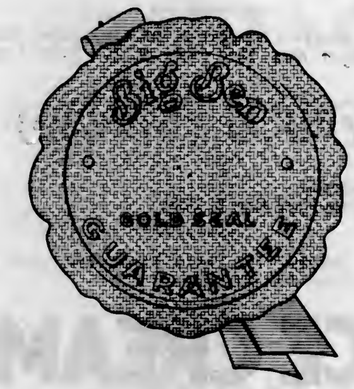
Horological Instruments

Ser. No. 299,745. WESTERN CLOCK COMPANY, Peru, Ill. Filed Apr. 30, 1930.



The lining on the seal design indicates the color yellow or gold, and the lining on the ribbon indicates the color blue, no claim being made to the word "Guarantee" apart from the mark shown in the accompanying drawing.
For Clocks and Watches.
Claims use since Nov. 29, 1929.

Ser. No. 299,746. WESTERN CLOCK COMPANY, Peru, Ill. Filed Apr. 30, 1930.



The lining on the seal design indicates the color yellow or gold, and the lining on the ribbon indicates the color blue. No claim being made to the word "Guarantee" apart from the mark as shown in the drawing.
For Clocks and Watches.
Claims use since Nov. 29, 1929.

CLASS 31

Filters and Refrigerators

Ser. No. 298,696. GLASCOCK BROTHERS MANUFACTURING Co., Muncie, Ind. Filed Apr. 11, 1930.

DE LUXE

For Bottle Coolers.
Claims use since Feb. 24, 1930.

Ser. No. 305,044. KELVINATOR CORPORATION, Detroit, Mich. Filed Aug. 26, 1930.

YUKON

Claims ownership of No. 31,131 Jan. 11, 1898.
For Refrigerator Cabinets and Mechanical Refrigerating Apparatus.
Claims use since Aug. 1, 1897.

CLASS 32

Furniture and Upholstery

Ser. No. 299,776. OTA O. HOBSON, Cedar Rapids, Iowa. Filed May 1, 1930.

PERFO

For Metal Furniture—Namely, Benches, Stools, Pigeonhole Cabinets, Corner Bric-a-Brac Shelving and Shelving for Clocks, Flowerpots and Vases, Kitchen Uses, Bathrooms, Closets, Mantles, Beauty Parlors, Hospitals, Stores, and Barber Shops—and Fixtures.
Claims use since Apr. 7, 1930.

Ser. No. 305,489. MANUFACTURING EQUIPMENT AND ENGINEERING COMPANY, Framingham, Mass. Filed Sept. 9, 1930.

MEECO

For Chairs, Benches, Lockers, Cabinets and Steel Shelving in the Nature of Household, Office, and/or Factory Furniture.
Claims use since 1915.

CLASS 33

Glassware

Ser. No. 307,153. AMERICAN WINDOW GLASS COMPANY, Pittsburgh, Pa. Filed Oct. 25, 1930.

LUSTRAWHITE

For Sheet Glass.
Claims use since Oct. 17, 1930.

Ser. No. 307,894. HOLOPHANE COMPANY, INC., New York, N. Y. Filed Nov. 14, 1930.

BOZAL

For Heat-Resisting Glassware.
Claims use since Nov. 6, 1930.

CLASS 34

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus

Ser. No. 307,884. CAMPBELL MACHINE CO., Minneapolis, Minn. Filed Nov. 14, 1930.

Vitalaire

For Humidifiers.
Claims use since Aug. 13, 1930.

CLASS 36

Musical Instruments and Supplies

Ser. No. 307,091. OLIVER DITSON COMPANY, Boston, Mass. Filed Oct. 23, 1930.

AUDIO-RHYTHMIC

For Piano Practice Keyboards.
Claims use since Oct. 17, 1930.

CLASS 38

Prints and Publications

Ser. No. 291,969. EVANS-WINTER-HEBB, INC., Detroit, Mich. Filed Nov. 4, 1929.

Interpretive Advertising

The word "Advertising" is disclaimed apart from the mark shown.
For Booklets, Folders, Broadsides, or Other Printed Pieces, and Sold to the Trade as Such.
Claims use since about Aug. 6, 1929.

Ser. No. 303,120. POPULAR PUBLICATIONS, New York, N. Y. Filed July 3, 1930.

REAL GANG WORLD STORIES

For Periodical.
Claims use since Apr. 30, 1930.

Ser. No. 303,741. HERBERT A. DE LIMA, doing business as Herbert Kirk, New York, N. Y. Filed July 28, 1930.

GOOFUS ANIMALS

For Cartoons.
Claims use since Mar. 3, 1930.

Ser. No. 305,080. ICE CREAM PRESS, INC., New York, N. Y. Filed Aug. 27, 1930.

ICE CREAM FIELD

For a Periodical.
Claims use since on or about April, 1922.

Ser. No. 306,499. LOS ANGELES EXAMINER, Los Angeles, Calif. Filed Oct. 7, 1930.

RAY DE O'FAN

For a Newspaper Column Published from Time to Time.
Claims use since Oct. 10, 1929.

Ser. No. 306,695. COOPERATIVE SALES SERVICE, INCORPORATED, Detroit, Mich. Filed Oct. 13, 1930.



For a Book of Coupons.
Claims use since Sept. 24, 1930.

Ser. No. 307,168. MODERN STANDARDS INC., New York, N. Y. Filed Oct. 25, 1930.

SMARTAGE

For Periodical Publication.
Claims use since Oct. 4, 1930.

Ser. No. 307,366. THE PALM BROTHERS DECALCOMANIA COMPANY, South Norwood, Cincinnati, Ohio. Filed Oct. 30, 1930.

PALMLAC

For Decalcomanias.
Claims use since Aug. 9, 1930.

Ser. No. 307,456. THE PALM BROTHERS DECALCOMANIA COMPANY, South Norwood, Cincinnati, Ohio. Filed Nov. 1, 1930.

PALMLAC

For Decalcomanias.
Claims use since Aug. 9, 1930.

Ser. No. 307,502. NATIONAL SOCIETY OF THE SONS OF THE AMERICAN REVOLUTION, Washington, D. C. Filed Nov. 3, 1930.

SONS of the AMERICAN REVOLUTION

For Magazine Published Quarterly.
Claims use since July 1 1930.

CLASS 39

Clothing

Ser. No. 290,947. GORDON & FERGUSON, INC., St. Paul, Minn. Filed Oct. 11, 1929. Under 10-year proviso.

GORDON

For Hats and Caps for Men, Women, and Children; Gloves Made Wholly or Partly of Leather; Fur Coats for Men, Women, and Children; Fur Caps, Fur Gloves, Fur Scarfs, Fur Muffs, Fabric Gloves, Fabric Caps, Capes of Fur and Fabric, Leather Vests, Leather Overcoats; Fur Overcoats for Men, Women, and Children; Fur-Lined Overcoats, Sheepskin-Lined Overcoats for Men, Women, and Children; and Mackintoshes.
Claims use since on or about 1883.

Ser. No. 296,967. HIRSCH AND BAAR, New Orleans, La. Filed Mar. 7, 1930.

SAZARAC TWIST

Right to the exclusive use of the name "Twist" apart from the mark as shown is hereby disclaimed.
For Men's and Boys' Coats, Vests, Trousers, and Pants.
Claims use since Jan. 1, 1929.

Ser. No. 300,138. LEADING DRESS AND COSTUME CO. INC., New York, N. Y. Filed May 8, 1930.

Leading Lady

For Ladies' and Misses' Coats, Suits, Capes, Dresses, Ensembles, Frocks, and Wraps.
Claims use since Apr. 10, 1930.

Ser. No. 300,485. THE FINTEX CORPORATION, Detroit, Mich. Filed May 14, 1930.

FINTEX

For Men's Suits, Overcoats, Vests, and Trousers.
Claims use since Mar. 5, 1922.

Ser. No. 301,384. L. FEIBLEMAN & COMPANY, New Orleans, La. Filed May 27, 1930.

GLIMMER

For Men's, Women's, and Children's Hosiery.
Claims use since Apr. 1, 1930.

Ser. No. 302,211. M. & B. COHEN CO., New York, N. Y. Filed June 6, 1930.

Cable Strength

The drawing is lined to indicate the color red.
For Men's, Youths', and Boys' Suits, Topcoats, and Overcoats.
Claims use since May 1, 1926.

Ser. No. 303,141. WORLD'S STAR KNITTING COMPANY, Bay City, Mich. Filed July 3, 1930.

Starré

For Hosiery and Underwear for Men, Women, and Children.
Claims use since June 1, 1930.

Ser. No. 304,537. COHEN, GOLDMAN & CO. INC., New York, N. Y. Filed Aug. 13, 1930.

Saxon-Weave

Applicant disclaims the exclusive use of the word "Weave" separate and apart from the other features of the mark.
For Men's, Boys', and Children's Outer Garments, Consisting of Coats, Vests, Pants, Overcoats, Raincoats, Dusters, Mackinaws, Ulsters, Automobile Coats.
Claims use since June 1, 1930.

Ser. No. 304,538. COHEN, GOLDMAN & CO. INC., New York, N. Y. Filed Aug. 13, 1930.

Saxon-tex

For Men's, Boys', and Children's Outer Garments, Consisting of Coats, Vests, Pants, Overcoats, Raincoats, Dusters, Mackinaws, Ulsters, and Automobile Coats.
Claims use since June 1, 1930.

Ser. No. 306,137. LARGMAN, GRAY COMPANY, New York, N. Y. Filed Sept. 27, 1930.

Bristol-Maid

For Ladies', Misses', and Children's Hosiery.
Claims use since Sept. 8, 1930.

Ser. No. 306,325. RUBENS & MEYER, New York, N. Y. Filed Oct. 2, 1930.

Tom Thumb

For Men's, Women's, and Children's Hosiery.
Claims use since Sept. 19, 1930.

Ser. No. 306,441. HART AND HART, LTD., Los Angeles, Calif. Filed Oct. 6, 1930.



The words "Miniature Golf Sportswear" are disclaimed herein apart from the mark shown in the drawing.
For Dresses, Suits, Coats, Sweaters, and Scarfs for Women and Children.
Claims use since Nov. 15, 1929.

Ser. No. 306,514. WIMELBACHER & RICE, New York, N. Y. Filed Oct. 7, 1930.

"Wear Right"

Applicant is the owner of registered Trade-Mark No. 111,543, of July 25, 1916.
For Leather and Fabric Gloves.
Claims use since Jan. 1, 1920.

Ser. No. 306,652. KRESGE DEPARTMENT STORE CORPORATION, Newark, N. J. Filed Oct. 11, 1930.

Townsbury

For Suits, Overcoats, and Topcoats.
Claims use since Sept. 1, 1930.

Ser. No. 306,728. CHEERIO DRESS CO., INC., New York, N. Y. Filed Oct. 14, 1930.

CHEERIO
DRESSES

The word "Dresses" is disclaimed apart from the mark shown in the drawing.
For Ladies' and Misses' Dresses.
Claims use since Sept. 4, 1930.

Ser. No. 306,998. THE M. GATES GARMENT CO., Leavenworth, Kans. Filed Oct. 21, 1930.

JaRee

For Juniors', Misses', and Children's Dresses.
Claims use since Oct. 8, 1930.

Ser. No. 307,089. BROWN DURRELL CO., Boston, Mass. Filed Oct. 23, 1930.

AFTER-DARK

For Women's, Misses', and Junior Misses' Hosiery.
Claims use since Oct. 2, 1930.

Ser. No. 307,118. STERN BROTHERS, New York, N. Y. Filed Oct. 23, 1930.

Chillaway

For Children's Underclothing—Namely, Stockings, Socks, Shirts, Vests, Pantees, Bloomers.
Claims use since Oct. 8, 1930.

Ser. No. 307,322. MERVIN S. LEVINE, New York, N. Y. Filed Oct. 29, 1930.



No claim is made to the word "Devonshire" apart from the mark shown on the drawing.
For Men's Suits, Topcoats, and Tuxedos.
Claims use since February, 1930.

Ser. No. 307,344. BELK-STEVENS COMPANY, Winston-Salem, N. C. Filed Oct. 30, 1930.

Bloodhound

For Overalls for Men and Boys.
Claims use since Oct. 28, 1930.

Ser. No. 307,377. CLARKE W. TOBIN, INC., New York, N. Y. Filed Oct. 30, 1930.

NEEDLE POINT

For Hosiery.
Claims use since Oct. 27, 1930.

Ser. No. 307,427. J. SCHOENEMAN, INCORPORATED, Baltimore, Md. Filed Oct. 31, 1930.

Airlite

For Coats, Vests, Trousers, Knickerbockers, Topcoats, and Overcoats for Men, Youths, and Boys.
Claims use since Apr. 1, 1930.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 266,076. THE ATLANTIC MILLS, Olneyville and Providence, R. I., and Stottville, N. Y. Filed May 8, 1928.

MELLO CREPE

No claim is made for the word "Crepe" apart from the mark shown.
For Woolen Textile Fabrics in the Piece.
Claims use since Jan. 1, 1928.

Ser. No. 294,116. THE KENDALL COMPANY, Walpole, Mass. Filed Dec. 27, 1929.

Handee

For Cheesecloth and Dusting and Polishing Cloths in the Piece.
Claims use since Dec. 16, 1929.

Ser. No. 299,038. THE ATLANTIC MILLS, Olneyville and Providence, R. I., and Stottville, N. Y. Filed Apr. 18, 1930.

Chaulaine

For All-Wool Coating Fabric in the Piece.
Claims use since March, 1930.

Ser. No. 300,465. CASCADE WOOLEN MILL, Oakland, Me. Filed May 14, 1930. Under 10-year proviso.

Cascade

For Woolen Piece Goods.
Claims use since June 1, 1882.

Ser. No. 306,210. WAMSUTTA MILLS, New Bedford, Mass. Filed Sept. 29, 1930.

DURALIN

For Cotton Piece Goods, Pillowcases, and Sheets.
Claims use since Aug. 16, 1930.

Ser. No. 306,907. OLIVER H. WALTON, doing business as Charles Walton & Son, Needham Heights, Mass. Filed Oct. 18, 1930.

QUALITY CWS KNITLASTIC

The word "Quality" is disclaimed apart from the other features of the mark shown in the drawing.
For Knit Elastic Fabric in the Piece and Corset Strips.
Claims use since Aug. 1, 1930.

Ser. No. 306,918. ZOLLINGER & SCHROTH, INC., New York, N. Y. Filed Oct. 18, 1930.

SATIN VEDETTE

The word "Satin" is disclaimed apart from the mark shown in the drawing.
For Silk Piece Goods.
Claims use since Oct. 1, 1930.

Ser. No. 307,050. THE GLEMBY COMPANY, INC., New York, N. Y. Filed Oct. 22, 1930.

THE RADIO GIRL HAIR NET

No claim is made to the exclusive use of the words "Hair Net" as shown in the drawing.
For Hair Nets.
Claims use since Dec. 1, 1922.

Ser. No. 307,738. ROSSIE VELVET COMPANY, Mystic, Conn. Filed Nov. 10, 1930.

"SHOW-GLEAM"

For Pile Fabrics.
Claims use since Oct. 10, 1930.

Ser. No. 307,758. ARCADIA KNITTING MILLS INC., Allentown, Pa. Filed Nov. 11, 1930.

ARCANESE

For Rayon Cloth in the Piece.
Claims use since Aug. 29, 1930.

Ser. No. 307,772. ANTONY GIBBS & CO., INC., New York, N. Y. Filed Nov. 11, 1930.

A·N·G·S·E

For Piece Goods—Namely, Cotton Silesia, a Twilled Cotton Lining to be Used for Pocketings.
Claims use since Aug. 23, 1930.

Ser. No. 307,786. W. F. STALP CO. INC., New York, N. Y. Filed Nov. 11, 1930.

Flannet

For Cotton, Cotton and Wool, Rayon and Cotton, Silk and Wool, and Silk and Cotton Piece Goods, and for Cotton, Wool and Cotton, Silk and Cotton, Rayon and Cotton, and Wool and Silk Piece Goods Suitable for the Manufacture of Men's, Women's, and Children's Clothing.
Claims use since Apr. 1, 1930.

Ser. No. 307,800. CHENEY BROTHERS, South Manchester, Conn. Filed Nov. 12, 1930.

Cytherea

For Woven, Knitted, Netted, Textile, and Pile Fabrics in the Piece Comprised in Whole or in Part of Silk.
Claims use since Nov. 6, 1930.

CLASS 43

Thread and Yarn

Ser. No. 296,317. BRITISH ENKA ARTIFICIAL SILK COMPANY LIMITED, London, England. Filed Feb. 21, 1930.

FIDENKA

For Yarns, Threads, and Fibres Made of Cellulose.
Claims use since Aug. 17, 1929.

Ser. No. 296,318. BRITISH ENKA ARTIFICIAL SILK COMPANY LIMITED, London, England. Filed Feb. 21, 1930.

FIDUCIA

For Yarns, Threads, and Fibres Made of Cellulose.
Claims use since Aug. 17, 1929.

Ser. No. 296,319. BRITISH ENKA ARTIFICIAL SILK COMPANY LIMITED, London, England. Filed Feb. 21, 1930.

RANCA

For Yarns, Threads, and Fibres Made of Cellulose.
Claims use since Aug. 17, 1929.

Ser. No. 296,320. BRITISH ENKA ARTIFICIAL SILK COMPANY LIMITED, London, England. Filed Feb. 21, 1930.

FASHIONELLA

For Yarns, Threads, and Fibres Made of Cellulose.
Claims use since Aug. 17, 1929.

Ser. No. 307,144. MAX POLLACK & CO. INC., New York, N. Y. Filed Oct. 24, 1930.

INDIO

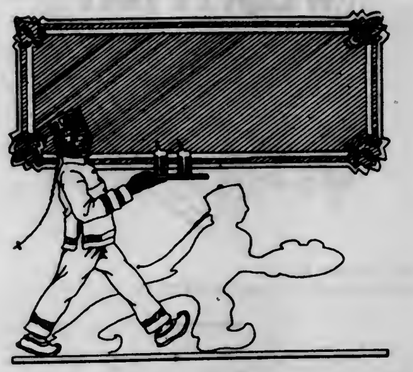


For Sewing Threads.
Claims use since Oct. 1, 1930.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 270,640. THE SENG COMPANY, Estacada, Oreg. Filed Aug. 6, 1928.



The drawing is lined to indicate the colors pink, purple, and orange.
For Flavoring Syrups for Soft Drinks.
Claims use since Apr. 1, 1927.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 271,009. R. E. RODDA CANDY COMPANY, Lancaster, Pa. Filed Aug. 14, 1928.



The trade-mark is a number of bluish green disk-shaped pieces of paper, as paper wafers which are scattered throughout a large container of small pieces of candy. The drawing is lined to show the color bluish green.
For Candy.
Claims use since Dec. 1, 1927.

Ser. No. 271,264. THE OHIO CHEESE PRODUCTS COMPANY, Xenia, Ohio. Filed Aug. 18, 1928.

CHECO

For Candied Pickle Chips and Cheeselike Food Products made Partly or Entirely of Whole Milk, Skimmed Milk, or Cream With or Without Salt, Rennet, or Harmless Coloring Matter.
Claims use since January, 1926.

Ser. No. 290,155. SUTTER COOPERATIVE GROWERS, San Francisco, Calif. Filed Sept. 23, 1929.

WESTPACK

For Canned Fruits.
Claims use since June 15, 1919.

Ser. No. 290,156. SUTTER COOPERATIVE GROWERS, San Francisco, Calif. Filed Sept. 23, 1929.

WESTBEST

For Canned Fruits and Canned Vegetables.
Claims use since June 15, 1919.

Ser. No. 290,158. SUTTER COOPERATIVE GROWERS, San Francisco, Calif. Filed Sept. 23, 1929.

WESTWIDE

For Canned Fruits and Canned Vegetables.
Claims use since June 15, 1919.

Ser. No. 295,365. DEER RIVER CREAMERY COMPANY, Deer River, Minn. Filed Jan. 30, 1930.

NORTHERN STAR

For Butter.
Claims use since July 15, 1927.

Ser. No. 296,066. DOROTHEA LEE, New York, N. Y. Filed Feb. 15, 1930.

CHILI VILLA

The descriptive word "Chili" is disclaimed by applicant apart from the mark shown in the drawing.
For Chili Con Carne, Tamales, Enchiladas, Frijoles, Spanish Rice, Frankfurters, Sausages, Meat Sauces, Meat Dressings, Gravies, Concentrated Chili Con Carne, Meat Loaf, Chutney, Coffee, Tea, and Mixed Spices.
Claims use since Feb. 1, 1927.

Ser. No. 300,156. VAN CAMP SEA FOOD CO. INC., Terminal Island, Los Angeles, Calif. Filed May 8, 1930.

SEA CHICKEN

For Canned Fish.
Claims use since Mar. 1, 1930.

Ser. No. 300,868. GENERAL MILLS, INC., Minneapolis, Minn. Filed May 20, 1930.



No claim being made to the words "Trade Mark" apart from the other features of the mark. The central disk and the fields of the lozenge figures being yellow.
For Wheat Flour.
Claims use since Jan. 1, 1880.

Ser. No. 301,193. NAAMLOOZE VENNOOTSCHAP KAASHANDEL BETZ & JAY, Rotterdam, Netherlands. Filed May 24, 1930.



No claim is made to the geographical name "Rotterdam" and no claim is made to the pictorial representation of the goods to which the mark is applied.
For Cheese.
Claims use since Apr. 1, 1907.

Ser. No. 301,301. SCHULTZ, BAUJAN & COMPANY, Beardstown, Ill. Filed May 26, 1930.

HON-EST

Applicant is owner of Trade-Mark No. 149,432, registered Dec. 13, 1921.
For Dairy, Horse, Hog, Cattle, and Poultry Feed.
Claims use since Aug. 1, 1920.

Ser. No. 301,943. THE KELPIDINE COMPANY, Portland, Oreg. Filed May 31, 1930.

KELPIN

For Bread Compound, Consisting of Ground Wheat and Kelp.
Claims use since October, 1929.

Ser. No. 303,009. GRANVILLE P. ROSE, Jr., doing business as G. P. Rose & Co., Nashville, Tenn. Filed June 30, 1930.

BLUE RIBBON



For Dog and Puppy Feed.
Claims use since Mar. 15, 1930.

Ser. No. 303,229. VEIGA, LIMITADA, Setubal, Portugal. Filed July 7, 1930.



The color line on the drawing indicates the color brown or purple. No claim is made to the words "Sardines A L'Huile" apart from their association as shown in the drawing.
For Preserved Fish—Sardines in Oil.
Claims use since Aug. 20, 1918.

Ser. No. 303,630. THE CURTISS CANDY COMPANY, Chicago, Ill. Filed July 19, 1930.

BUY JIMINY

For Candy Bars Containing Peanuts.
Claims use since Apr. 1, 1930.

Ser. No. 304,297. SCHMIDT BAKING COMPANY, Baltimore, Md. Filed Aug. 6, 1930.

NORRLAND

For Bread.
Claims use since Feb. 26, 1930.

Ser. No. 304,622. THE METAL WARES COMPANY, Kansas City, Mo. Filed Aug. 14, 1930.

THERMATIC COFFEE

The applicant hereby disclaims any right to the exclusive use of the word "Coffee" apart from the mark shown in the drawing.
For Coffee.
Claims use since July 6, 1930.

Ser. No. 305,325. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed Sept. 4, 1930.



No claim is made to the word "Coffee" apart from the trade-mark as shown in the drawing, but the rest of the features of the mark presented in the drawing are claimed independently of the colors shown. Applicant is owner of certificate No. 149,876, registered under the 10-year proviso.
For Coffee.
Claims use since July 31, 1930.

Ser. No. 306,002. DALBOW FOOD PRODUCTS CO., New York, N. Y. Filed Sept. 24, 1930.

TATOE-CRISPS

For Food Products—Namely, Shoe-String-Style Potatoes.
Claims use since July 1, 1930.

Ser. No. 306,032. THE CAPITAL CITY PRODUCTS COMPANY, Columbus, Ohio. Filed Sept. 24, 1930.

GOLDEN BLOOM

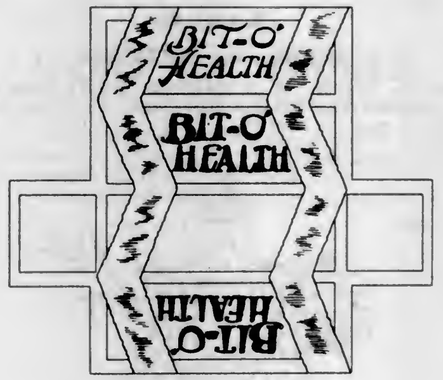
For Yellow Cottonseed Oil Used for Cooking Purposes.
Claims use since Jan. 19, 1929.

Ser. No. 306,251. K. UCHIDA, Westmoreland, Calif. Filed Sept. 30, 1930.



The conventional lining on the drawing indicates the colors red, blue, yellow, and green.
For Fresh Melons—Namely, Cantaloupes, Honeydews, Honeyballs, Persian Melons.
Claims use since May 16, 1929.

Ser. No. 306,290. THE STANDARD BISCUIT COMPANY, Des Moines, Iowa. Filed Oct. 1, 1930.



Applicant makes no claim to the exclusive right to the representation of the carton.
For Biscuits.
Claims use since June 1, 1930.

Ser. No. 306,326. SCHIEFFELIN & COMPANY, New York, N. Y. Filed Oct. 2, 1930.

ELVERA

For Olive Oil.
Claims use since 1905.

Ser. No. 306,496. MORRIS HELLER, doing business as The Venice Importing Co., Brooklyn, N. Y. Filed Oct. 7, 1930.



For Salad Oil.
Claims use since July 23, 1930.

Ser. No. 306,538. NEW YORK TOASTED NUT HOUSE, INC., Brooklyn, N. Y. Filed Oct. 8, 1930.



The word "Peanut" being hereby disclaimed, the word "Krispies" being disclaimed apart from the mark shown.
For Toasted Nuts.
Claims use since January, 1925.

Ser. No. 306,794. WINTHROP ORCHARDS INC., also doing business as G. Winthrop Coffin, Seattle, Wash. Filed Oct. 15, 1930.

GOVERNOR WINTHROP

For Apples in Their Natural State.
Claims use since Sept. 16, 1930.

Ser. No. 307,129. WILLIAM H. BROSKE, doing business as Golden Jar Dairies, Rockford, Ill. Filed Oct. 24, 1930.

Golden Jar Butter



The word "Butter" not being claimed apart from the other features of the mark.
For Butter.
Claims use since July 1, 1930.

Ser. No. 307,151. AMERICAN POP CORN COMPANY, Sioux City, Iowa. Filed Oct. 25, 1930.

LITTLE WONDER

For Pop Corn in Its Natural State.
Claims use since 1912.

Ser. No. 307,362. CHARLES N. MILLER COMPANY, Boston, Mass. Filed Oct. 30, 1930.

PILOT'S PAL

For Candy.
Claims use since Oct. 13, 1930.

Ser. No. 307,372. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed Oct. 30, 1930.



The lining on the drawing is for shading only.
For Tea.
Claims use since 1892.

Ser. No. 307,381. ALBERS PACKING COMPANY, Riverside, Calif. Filed Oct. 31, 1930.

HOUSE PARTY

For Canned Olives.
Claims use since Sept. 30, 1930.

Ser. No. 307,540. TRAINOR FOOD CORPORATION, Dover, Del., and New York, N. Y. Filed Nov. 4, 1930.

ZIMZS

For Potato Crisps and Potato Waffles.
Claims use since Sept. 1, 1930.

Ser. No. 307,886. CHARLES LEE DE BORD, doing business as De Bord Mills, Johnson City, Tenn. Filed Nov. 14, 1930.

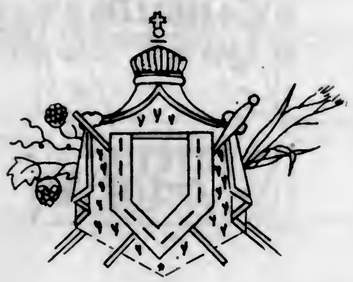
SOUTHERN GOLD

For Wheat Flour.
Claims use since Jan. 1, 1928.

CLASS 48

Malt Beverages and Liquors

Ser. No. 305,930. R. H. GRAUPNER, doing business as Canadian Pale Products Association, Harrisburg, Pa. Filed Sept. 22, 1930.



For Malt Beverages Containing Not More Than the Legal Alcoholic Content.
Claims use since 1896.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 300,560. COLLEGEVILLE FLAG & MFG. CO., Collegeville, Pa. Filed May 15, 1930.

SAMSON

For Flags, Pennants, and Flag Holders.
Claims use since May 1, 1916.

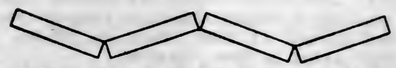
Ser. No. 304,422. OLD COLONY DISTRIBUTING COMPANY, Boston, Mass. Filed Aug. 9, 1930.

FOLDABRUSH

For Folding Shaving Kits Each Including a Folding Shaving Brush, a Safety Razor, and a Shaving-Cream Container.
Claims use since Aug. 4, 1930.

Ser. No. 304,423. OLD COLONY DISTRIBUTING COMPANY, Boston, Mass. Filed Aug. 9, 1930.





For Folding Shaving Kits Each Including a Folding Shaving Brush, a Safety Razor, and a Shaving-Cream Container.
Claims use since Aug. 4, 1930.

Ser. No. 306,260. D. P. CLEMMER CO. (NOT INCORPORATED), Chicago, Ill. Filed Oct. 1, 1930.

GOAT GRASS

The word "Grass" is disclaimed except as part of the mark shown.
For Flexible Sheet Material Having a Matted Fibrous Surface on a Side Thereof Used for Putting Greens, Window Displays, etc., to Represent Grass.
Claims use since Aug. 18, 1930.

Ser. No. 306,474. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Oct. 4, 1930. Under Section 5b of the Act of 1905 as amended in 1920.

DU PONT

For Rubberized Fabrics—i. e., Fabrics Treated with a Rubber Coating.
Claims use since Oct. 31, 1925.

Ser. No. 307,203. SHERMAN Q. FRENCH, Hawarden, Iowa. Filed Oct. 27, 1930.

RED JACKET

For Hog, Poultry, and Stock Waterers.
Claims use since Sept. 11, 1930.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

DECEMBER 23, 1930

278,503. OVERALLS AND WORK SHIRTS. HEINEMANN DRY GOODS COMPANY, Jonesboro, Ark.
Filed August 1, 1930. Serial No. 304,444. PUBLISHED SEPTEMBER 23, 1930. Class 39.

278,504. HOSIERY. BERKSHIRE KNITTING MILLS, Wyomissing, Pa.
Filed August 7, 1930. Serial No. 304,308. PUBLISHED OCTOBER 7, 1930. Class 39.

278,505. WOMEN'S AND MISSES' COATS, SUITS, AND DRESSES. BAUM KRAVAT & BAUM, New York, N. Y.
Filed August 7, 1930. Serial No. 304,307. PUBLISHED OCTOBER 7, 1930. Class 39.

278,506. HOSIERY. NEUSTADTER BROTHERS, San Francisco, Calif.
Filed August 4, 1930. Serial No. 304,210. PUBLISHED OCTOBER 7, 1930. Class 39.

278,507. HEADWEAR—NAMELY, GIRLS' AND WOMEN'S HATS. LE RAE HAT CO., St. Louis, Mo.
Filed January 30, 1930. Serial No. 295,377. PUBLISHED SEPTEMBER 23, 1930. Class 39.

278,508. CARBONATED, NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. MILLER BECKER CO., Cleveland, Ohio.
Filed December 28, 1929. Serial No. 294,166. PUBLISHED OCTOBER 7, 1930. Class 45.

278,509. TOE PLATES, HEEL PLATES, AND BRACES FOR SHOES. LEON WEINSTEIN, doing business as Security Shoe Supply Co., St. Louis, Mo.
Filed December 16, 1929. Serial No. 293,759. PUBLISHED OCTOBER 7, 1930. Class 13.

278,510. BASE-METAL TABLE AND COOKING HOLLOW WARE, BASE-METAL COFFEE URNS, ICE TRAYS, AND ICE DRAWERS. WÜRTTEMBERGISCHE METALLWARENFABRIK, Geislinger-Steige, Wurttemberg, Germany.
Filed March 17, 1930. Serial No. 297,463. PUBLISHED OCTOBER 7, 1930. Class 13.

278,511. BONBONS, CHOCOLATES, AND CANDIES. L. BAMBERGER & CO., Newark, N. J.
Filed March 14, 1930. Serial No. 297,291. PUBLISHED OCTOBER 7, 1930. Class 46.

278,512. CERTAIN NAMED WEARING APPAREL. YOUNKER BROTHERS, INC., Des Moines, Iowa.
Filed March 10, 1930. Serial No. 297,113. PUBLISHED OCTOBER 7, 1930. Class 39.

278,513. CANNED COOKED POULTRY. KINGAN & CO., INCORPORATED, Indianapolis, Ind.
Filed March 10, 1930. Serial No. 297,083. PUBLISHED JUNE 17, 1930. Class 46.

278,514. FUR, SHEEP, LEATHER, AND TEXTILE CLOTHING—NAMELY, COATS FOR MEN, WOMEN, AND CHILDREN. B. W. HARRIS MANUFACTURING COMPANY, St. Paul, Minn.
Filed March 10, 1930. Serial No. 297,078. PUBLISHED SEPTEMBER 30, 1930. Class 39.

278,515. MILK CHOCOLATE, COCOANUT, AND VANILLA CUP CAKES; SPONGE CAKE, GINGERBREAD, LAYER CAKE, DOUGHNUTS, PRETZELS, GRAHAM CRACKERS, SUGAR COOKIES, GINGER COOKIES, MOLASSES COOKIES, FRUIT COOKIES, WHOLE-WHEAT MUFFINS, PEANUT BUTTER SANDWICHES; COCOANUT, TASTY, CINNAMON, PECAN, BUTTER, RAISIN, AND FRUIT BUNS. VENDI-CATER, INC., Williamsport, Pa.
Filed March 6, 1930. Serial No. 296,934. PUBLISHED SEPTEMBER 30, 1930. Class 46.

278,516. PAPER. RAG CONTENT PAPER MANUFACTURERS, Springfield, Mass.
Filed March 6, 1930. Serial No. 296,922. PUBLISHED OCTOBER 7, 1930. Class 37.

278,517. CLOTHING AND FURNISHING GOODS—NAMELY, NECKTIES, HOSE, LEATHER GLOVES, LOUNGE ROBES, PAJAMAS, UNDERWEAR OF KNITTED, NETTED, AND/OR TEXTILE MATERIAL FOR MEN, SCARFS, SUSPENDERS, COLLARS, MEN'S HATS, AND LEATHER SHOES. CLUB & CAMPUS PUBLISHING CO., Chicago, Ill.
Filed February 28, 1930. Serial No. 296,632. PUBLISHED OCTOBER 7, 1930. Class 39.

278,518. ARTIFICIAL DENTURE PRESS. AMERICAN HECOLITE DENTURE CORPORATION, Portland, Oreg.
Filed February 11, 1930. Serial No. 295,883. PUBLISHED APRIL 1, 1930. Class 44.

278,519. FILING ENVELOPES OF PAPER OR CLOTH AND FOR BOOK COVERS. GEORGE SEELMAN & SONS CO., Milwaukee, Wis.
Filed February 24, 1930. Serial No. 296,449. PUBLISHED OCTOBER 7, 1930. Class 37.

278,520. MEN'S AND BOYS' BLOUSES, DRESS, NEGLIGEES, AND/OR WORK SHIRTS, PAJAMAS, AND NIGHTSHIRTS. SHRAGE & PINES, New York, N. Y.
Filed February 11, 1930. Serial No. 295,906. PUBLISHED SEPTEMBER 30, 1930. Class 39.

278,521. WHEAT FLOUR. THE COLORADO MILLING & ELEVATOR CO., doing business as Hungarian Flour Mills, Denver, Colo.
Filed February 11, 1930. Serial 295,888. PUBLISHED APRIL 22, 1930. Class 46.

278,522. HURRICANE LAMPS, FILLING SCREWS, BURNERS, OIL CONTAINERS, PROTECTIVE GRIDS, AND REFLECTORS, ALL FOR USE WITH HURRICANE LAMPS; AND PETROLEUM STOVES. HERMANN NIER, Beierfeld, Germany.
Filed January 31, 1930. Serial No. 295,437. PUBLISHED OCTOBER 7, 1930. Class 34.

278,523. CHEESE. W. H. RUDOLFF, doing business as Novato French Cheese Factory, Novato, Calif.
Filed August 14, 1930. Serial No. 304,634. PUBLISHED SEPTEMBER 30, 1930. Class 46.

278,524. HAND LUGGAGE—NAMELY, SUITCASES AND VALISES, GLADSTONE COAT CASES, WARDROBE SUITCASES, WEEK-END CASES, OVERNIGHT CASES, AND FITTED SUITCASES. FRANKLIN LEATHER GOODS CO., INC., Newark, N. J.
Filed August 13, 1930. Serial No. 304,549. PUBLISHED OCTOBER 7, 1930. Class 3.

278,525. MANILLA ROPE. THE UPSON-WALTON COMPANY, Cleveland, Ohio.
Filed August 9, 1930. Serial No. 304,437. PUBLISHED OCTOBER 7, 1930. Class 7.

278,526. PREPARED FOOD FOR DOGS, CATS, AND OTHER CARNIVOROUS ANIMALS. CHAPPEL BROS., INC., Rockford, Ill.
Filed August 4, 1930. Serial No. 304,188. PUBLISHED SEPTEMBER 30, 1930. Class 46.

278,527. PLAIN AND SELF-RISING FLOUR. MANEY MILLING COMPANY, Omaha, Neb.
Filed August 2, 1930. Serial No. 304,154. PUBLISHED OCTOBER 7, 1930. Class 46.

278,528. STRICTLY-FRESH WHITE GRADED EGGS. WILLIAM L. RONNERMAN, doing business as Biltmore Farm, Merrick, N. Y.
Filed July 28, 1930. Serial No. 303,923. PUBLISHED SEPTEMBER 30, 1930. Class 46.

278,529. CAKE MIXTURE. REJOS COMPANY, Hopkins, Minn.
Filed July 25, 1930. Serial No. 303,822. PUBLISHED OCTOBER 7, 1930. Class 46.

278,530. NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. THE RED RAVEN CORPORATION, Red Raven, Pa.
Filed July 22, 1930. Serial No. 303,727. PUBLISHED OCTOBER 7, 1930. Class 45.

278,531. SANDWICHES. JOHN G. WEIDNER, Trucksville, Pa.
Filed July 19, 1930. Serial No. 303,671. PUBLISHED SEPTEMBER 30, 1930. Class 46.

278,532. LIQUID BOND FOR FOUNDRY CORES. EARL PAINT CORPORATION, Utica, N. Y.
Filed July 16, 1930. Serial No. 303,530. PUBLISHED SEPTEMBER 30, 1930. Class 5.

278,533. FIRECRACKERS. PEKIN FIREWORKS COMPANY, Astoria, Oreg.
Filed July 12, 1930. Serial No. 303,451. PUBLISHED OCTOBER 7, 1930. Class 9.

278,534. DRY BASE FOR A WATER WALL COATING. ALABASTINE COMPANY, Grand Rapids, Mich.
Filed June 27, 1930. Serial No. 302,878. PUBLISHED OCTOBER 7, 1930. Class 16.

278,535. LADIES', MEN'S, BOYS', GIRLS', AND CHILDREN'S HAND BAGS, PURSES, AND BATHING RECEPTACLES. ROBBINS & TENNEY, New York, N. Y.
Filed June 13, 1930. Serial No. 302,410. PUBLISHED OCTOBER 7, 1930. Class 3.

278,536. REFRIGERATORS AND REFRIGERATING MACHINERY. HOLBROOK, MERRILL & STETSON, INC., LIMITED, Wilmington, Del., and Los Angeles, Calif.
Filed September 2, 1930. Serial No. 305,223. PUBLISHED OCTOBER 7, 1930. Class 31.

278,537. MALT BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT OF ALCOHOL BY VOLUME. LOUIS F. NEUWEILER'S SONS, Allentown, Pa.
Filed August 28, 1930. Serial No. 305,119. PUBLISHED OCTOBER 7, 1930. Class 48.

278,538. RICE. LAKE CHARLES RICE MILLING COMPANY, OF LOUISIANA, INC., Lake Charles, La.
Filed August 26, 1930. Serial No. 305,046. PUBLISHED OCTOBER 7, 1930. Class 46.

278,539. COMBINATION COIN PURSES, THREE-FOLD WALLETS, LEATHER LICENSE CASES, VALUABLE-PAPER WALLETS, LEATHER KEY CASES, LEATHER CARDCASES. THE DIARY PUBLISHING CORPORATION, New York, N. Y.
Filed August 26, 1930. Serial No. 305,038. PUBLISHED OCTOBER 7, 1930. Class 3.

278,540. MALTLESS CARBONATED BEVERAGES SOLD AS SOFT DRINKS. A. J. CANFIELD CO., Chicago, Ill.
Filed August 25, 1930. Serial No. 304,993. PUBLISHED OCTOBER 7, 1930. Class 45.

278,541. EGGS. FRANK B. SHIELDS, doing business as Foxcliff Poultry Farm, Indianapolis and Martinsville, Ind.
Filed August 19, 1930. Serial No. 304,786. PUBLISHED SEPTEMBER 30, 1930. Class 46.

278,542. COAL. THE RELIABLE COAL & MINING CO., Chicago, Peoria, and Springfield, Ill.; Moberly and Kansas City, Mo.; and Omaha, Nebr.
Filed August 18, 1930. Serial No. 304,736. PUBLISHED SEPTEMBER 30, 1930. Class 1.

278,543. VIENNA SAUSAGE, PURE PORK SAUSAGE, POTTED MEAT FOOD PRODUCTS, TRIPE WITH MILK, CHILE CON CARNE WITH BEANS, SAUSAGE MEAT, TOMATO SOUP, VEGETABLE SOUP, VEGETABLE BEEF SOUP, AND CORN MEAL. CALDWELL-SPENCE, Gadsden, Ala.
Filed June 27, 1929. Serial No. 286,222. PUBLISHED OCTOBER 7, 1930. Class 46.

278,544. AUTO MAPS AND ROAD GUIDES PUBLISHED PERIODICALLY. LOUIS ENGEL, doing business as American Tourists Association, Washington, D. C.
Filed June 12, 1929. Serial No. 285,447. PUBLISHED OCTOBER 7, 1930. Class 38.

278,545. MEN'S AND BOYS' OUTER GARMENTS—NAMELY, SUITS, COATS, VESTS, AND TROUSERS. LOUIS H. MANKO, doing business as L. H. Manko & Company and National Summer Clothing Company, Philadelphia, Pa.
Filed June 4, 1929. Serial No. 285,033. PUBLISHED SEPTEMBER 23, 1930. Class 39.

278,546. FABRICS COMPRISING WOVEN OR KNITTED PILE FABRICS SIMULATING NATURAL FURS MADE OUT OF WOOL, MOHAIR, AND CAMEL'S HAIR. H. ERNSTBERGER & CO., New York, N. Y.
Filed November 15, 1929. Serial No. 292,444. PUBLISHED AUGUST 12, 1930. Class 42.

278,547. RADIANT GAS HEATER. THE RAY-GLO CORPORATION, Athens, Ohio.
Filed October 29, 1929. Serial No. 291,739. PUBLISHED JANUARY 7, 1930. Class 34.

278,548. COLLARS, DRESS AND NEGLIGEE SHIRTS, AND KNITTED AND TEXTILE UNDERWEAR FOR MEN AND BOYS. THE ENRO SHIRT COMPANY, Louisville, Ky.
Filed October 24, 1929. Serial No. 291,502. PUBLISHED JANUARY 7, 1930. Class 39.

278,549. CANNED AND BOTTLED FOOD PRODUCTS. DE SANTOS FRUIT PACKING CO., Manila, P. I.
Filed October 2, 1929. Serial No. 290,503. PUBLISHED SEPTEMBER 30, 1930. Class 46.

278,550. CERTAIN NAMED DENTAL PLASTIC MATERIALS. AMERICAN HECOLITE DENTURE CORPORATION, Portland, Oreg.
Filed September 19, 1929. Serial No. 289,954. PUBLISHED MARCH 4, 1930. Class 44.

278,551. TEXTILE FABRICS—NAMELY, COTTON PIECE GOODS. TRIPPE, BARKER & CO., New York, N. Y.
Filed August 30, 1929. Serial No. 289,219. PUBLISHED OCTOBER 7, 1930. Class 42.

278,552. YOUNG MEN'S CLOTHING—NAMELY, SUITS, REEFERS, OVERCOATS, TOPCOATS, RAINCOATS, DRESS SHIRTS, NEGLIGEE SHIRTS, WORK SHIRTS, AND NECKTIES. THE OUTLET COMPANY, Providence, R. I.
Filed August 22, 1929. Serial No. 288,866. PUBLISHED NOVEMBER 5, 1929. Class 39.

278,553. AEROPLANE TOYS, GLIDER TOYS, VEHICULAR TOYS. CARL BERGMANN, doing business as Badger Toy Company, Milwaukee, Wis.
Filed August 9, 1930. Serial No. 304,397. PUBLISHED OCTOBER 7, 1930. Class 22.

278,554. EGGS. VALLEY BUTTER COMPANY, Pittsburgh, Pa.
Filed June 2, 1930. Serial No. 302,188. PUBLISHED OCTOBER 7, 1930. Class 46.

278,555. AUTOMATIC AIR VALVES. THE NEW ERA ALUMINUM CO., Cleveland, Ohio.
Filed August 16, 1930. Serial No. 304,694. PUBLISHED OCTOBER 7, 1930. Class 13.

278,556. HINGES AND HASPS. THE STANLEY WORKS, New Britain, Conn.
Filed August 14, 1930. Serial No. 304,642. PUBLISHED OCTOBER 7, 1930. Class 13.

278,557. FILL TUBES FOR GASOLINE TANKS. THE DAVIS WELDING & MANUFACTURING COMPANY, Cincinnati, Ohio.
Filed August 11, 1930. Serial No. 304,451. PUBLISHED OCTOBER 7, 1930. Class 13.

278,558. GAS-BURNING APPLIANCES ADAPTED FOR CONVERTING HOUSE-HEATING FURNACES ORIGINALLY DESIGNED FOR BURNING SOLID FUEL INTO GAS-FIRED FURNACES BY REMOVING THE FUEL GRATES. THE SURFACE COMBUSTION CO. INCORPORATED, Toledo, Ohio.
Filed August 6, 1930. Serial No. 304,298. PUBLISHED OCTOBER 7, 1930. Class 34.

278,559. WINDSHIELD WIPERS FOR MOTOR VEHICLES. REUBEN N. COLLEY, doing business as Dee Fross Hot Air Windshield Wiper Co., Barrington, R. I.
Filed August 6, 1930. Serial No. 304,272. PUBLISHED OCTOBER 7, 1930. Class 19.

278,560. HEAT-RESISTING NEEDLES USED IN THE VALVES OF OIL-BURNING STOVES. THE TORRINGTON COMPANY, Torrington, Conn.
Filed August 1, 1930. Serial No. 304,114. PUBLISHED OCTOBER 7, 1930. Class 13.

278,561. AIRPLANES, SEAPLANES, FLYING BOATS, AMPHIBIAN PLANES, AND STRUCTURAL PARTS THEREOF. GROVER LOENING COMPANY, INC., New York, N. Y.
Filed July 25, 1930. Serial No. 303,809. PUBLISHED OCTOBER 7, 1930. Class 19.

278,562. CERTAIN NAMED PAINT PRODUCTS. THE PAYSON VARNISH CO., New York, N. Y.
Filed June 25, 1930. Serial No. 302,830. PUBLISHED OCTOBER 7, 1930. Class 16.

278,563. CERTAIN NAMED PAINT PRODUCTS. THE PAYSON VARNISH CO., New York, N. Y.
Filed June 25, 1930. Serial No. 302,829. PUBLISHED OCTOBER 7, 1930. Class 16.

278,564. COVERED ELECTRICAL CONDUCTORS. SPLITDORF ELECTRICAL COMPANY, Newark, N. J.
Filed May 31, 1930. Serial No. 302,073. PUBLISHED AUGUST 19, 1930. Class 21.

278,565. GOLF CLUBS. THE KROYDON COMPANY, Maplewood, N. J.
Filed August 29, 1930. Serial No. 305,135. PUBLISHED OCTOBER 7, 1930. Class 22.

278,566. HOUSE ORGAN. SUSSMAN, WORMSER & COMPANY, San Francisco, Calif.
Filed August 26, 1930. Serial No. 305,058. PUBLISHED OCTOBER 7, 1930. Class 38.

278,567. STILTS. EDWARD J. FELLMAN, doing business as Phenix Manufacturing Co., Milwaukee, Wis.
Filed August 25, 1930. Serial No. 305,001. PUBLISHED OCTOBER 7, 1930. Class 22.

278,568. COTTON PIECE GOODS. INTERNATIONAL SHOE CO., St. Louis, Mo.
Filed August 22, 1930. Serial No. 304,916. PUBLISHED OCTOBER 7, 1930. Class 42.

278,569. PERIODICAL ISSUED ANNUALLY. BLUM'S ALMANAC SYNDICATE, Winston-Salem, N. C.
Filed August 18, 1930. Serial No. 304,716. PUBLISHED OCTOBER 7, 1930. Class 38.

278,570. WEEKLY TRADE PUBLICATION. CHICAGO RETAIL DRUGGISTS' ASSOCIATION, Chicago, Ill.
Filed August 15, 1930. Serial No. 304,649. PUBLISHED OCTOBER 7, 1930. Class 38.

278,571. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed August 13, 1930. Serial No. 304,548. PUBLISHED OCTOBER 7, 1930. Class 42.

278,572. WRITING TABLETS, LOOSE-LEAF PRACTICE PAPER, NOTEBOOK-FILLER PAPER, AND COMPOSITION BOOKS. THE A. N. PALMER COMPANY, New York, N. Y.
Filed August 9, 1930. Serial No. 304,424. PUBLISHED OCTOBER 7, 1930. Class 37.

278,573. CERTAIN NAMED PAINT PRODUCTS. HOYT BROTHERS, INC., Newark, N. J.
Filed April 16, 1930. Serial No. 298,944. PUBLISHED OCTOBER 7, 1930. Class 16.

278,574. POLISHES FOR FURNITURE AND AUTOMOBILES. W. W. CULBERTSON & SON, Kansas City, Kans.
Filed April 7, 1930. Serial No. 298,921. PUBLISHED OCTOBER 7, 1930. Class 16.

278,575. COFFEE, PEANUT BUTTER, TEA, VINEGAR, SHELLED NUTS, CANNED BLACK-EYED PEAS, CANNED LIMA BEANS, CANNED RED BEANS, CANNED CHILE, CANNED TAMALES, PECANNUT BUTTER, CANNED NAVY BEANS, AND QUEEN OLIVES. UNIVERSAL MANUFACTURING COMPANY, Abilene, Tex.
Filed April 14, 1930. Serial No. 298,866. PUBLISHED OCTOBER 7, 1930. Class 46.

278,576. FOUNTAIN PENS AND PARTS THEREOF. SOLOMON M. SAGER, Evanston, Ill.
Filed April 11, 1930. Serial No. 298,716. PUBLISHED OCTOBER 7, 1930. Class 37.

278,577. OIL-DISPENSING JARS AND/OR CANS AND COMBINATION CAPS AND SPOUTS THEREFOR. JAY B. RHODES COMPANY, Kalamazoo, Mich.
Filed April 9, 1930. Serial No. 298,591. PUBLISHED OCTOBER 7, 1930. Class 2.

278,578. MEN'S AND WOMEN'S HOSIERY AND UNDERWEAR MADE OF KNITTED, NETTED, AND/OR TEXTILE FABRICS; WOMEN'S BRASSIÈRES. W. S. RIDDLE NOTION CO., Nashville, Tenn.
Filed April 7, 1930. Serial No. 298,514. PUBLISHED OCTOBER 7, 1930. Class 39.

278,579. CANDY. UNIVERSAL CANDY COMPANY, Chicago, Ill.
Filed May 1, 1930. Serial No. 299,817. PUBLISHED OCTOBER 7, 1930. Class 46.

278,580. DOORS, SASH, TRIM, MOULDING, JAMBS, AND ALL MILLWORK. BYRON SASH & DOOR COMPANY, Louisville, Ky.
Filed May 20, 1930. Serial No. 300,854. PUBLISHED OCTOBER 7, 1930. Class 12.

278,581. UNDERGARMENTS—NAMELY, SHIRTS, UNION SUITS, STEP-INS, BRASSIÈRES, PANTS, BLOOMERS FOR WOMEN AND CHILDREN. THE STEP-IN-ALL UNDERWEAR CORPORATION, Springfield, Mass.
Filed May 19, 1930. Serial No. 300,828. PUBLISHED OCTOBER 7, 1930. Class 39.

278,582. LIGNEOUS PRODUCTS IN THE RAW OR PARTLY-PREPARED STATE. SOCIÉTÉ ANONYME "LE BOIS BAKÉLISÉ," Nancy, France.
Filed May 19, 1930. Serial No. 300,822. PUBLISHED SEPTEMBER 30, 1930. Class 1.

278,583. HOSE SUPPORTERS, SUSPENDERS, AND ARM BANDS FOR MEN, WOMEN, AND CHILDREN. MAX KAUFMAN & SONS, New York, N. Y.
Filed May 14, 1930. Serial No. 300,526. PUBLISHED SEPTEMBER 23, 1930. Class 39.

278,584. COW AND POULTRY FEED AND WHITE WHEAT FLOUR. GRAHAM MILL & ELEVATOR CO., Graham, Tex.
Filed May 14, 1930. Serial No. 300,513. PUBLISHED SEPTEMBER 30, 1930. Class 46.

278,585. HAND BAGS. STONE & GROPPER, INC., New York, N. Y.
Filed May 13, 1930. Serial No. 300,448. PUBLISHED OCTOBER 7, 1930. Class 3.

278,586. CARROT JUICE, A FOOD BEVERAGE. FRAN ROSSICH, San Francisco, Calif.
Filed May 10, 1930. Serial No. 300,300. PUBLISHED OCTOBER 7, 1930. Class 46.

278,587. COMPOSITION BOOKS, NOTEBOOKS, AND LOOSE-LEAF BINDERS. S. H. KRESS & CO., New York, N. Y.
Filed May 8, 1930. Serial No. 300,135. PUBLISHED OCTOBER 7, 1930. Class 37.

278,588. SILK HOSIERY. DEXDALE HOSIERY MILLS, Lansdale, Pa.
Filed May 1, 1930. Serial No. 299,769. PUBLISHED SEPTEMBER 23, 1930. Class 39.

278,589. MOLASSES. THE AMERICAN MOLASSES CO. OF NEW YORK, New York, N. Y.
Filed April 30, 1930. Serial No. 299,667. PUBLISHED OCTOBER 7, 1930. Class 46.

278,590. MEALS AND FLOURS OF GRAINS AND VEGETABLES, DESICCATED FRUIT AND VEGETABLES, COCOA, ETC. SCHÜLE-HOHENLOHE A.-G., Pluderhausen, Wurttemberg, Germany.
Filed April 28, 1930. Serial No. 299,600. PUBLISHED OCTOBER 7, 1930. Class 46.

278,591. GAS-FUEL AUTOMATIC STORAGE-WATER HEATERS. WESTERN WATER HEATER CORP. LTD., Los Angeles, Calif.
Filed April 23, 1930. Serial No. 299,358. PUBLISHED OCTOBER 7, 1930. Class 34.

278,592. PIES. MOUNTAIN CITY MILL CO., INC., doing business as Chattanooga Bakery, Chattanooga, Tenn.
Filed April 5, 1930. Serial No. 298,455. PUBLISHED SEPTEMBER 30, 1930. Class 46.

278,593. SILK HOSIERY, SILK UNDERWEAR, AND GLOVES MADE OF CLOTH, LEATHER, AND/OR COMBINATIONS THEREOF, ALL FOR MEN, WOMEN, AND CHILDREN. STERLING SILK UNDERWEAR MILLS, Newark, N. J.
Filed April 2, 1930. Serial No. 298,292. PUBLISHED OCTOBER 7, 1930. Class 39.

278,594. UNDERVESTS, CORSETS, SLEEPING SUITS, ETC. J. P. TAYLOR & CO., LTD., London, England.
Filed July 11, 1929. Serial No. 286,962. PUBLISHED SEPTEMBER 30, 1930. Class 39.

278,595. CONFECTIONS, PEANUT BUTTER, PEPPER, ETC. JOHN ELLIS & BROTHER, Philadelphia, Pa.
Filed July 3, 1929. Serial No. 286,556. PUBLISHED OCTOBER 7, 1930. Class 46.

278,596. UMBRELLAS. SIEGEL, ROTHSCHILD-GANS BROS. INC., Baltimore, Md.
Filed June 1, 1929. Serial No. 284,918. PUBLISHED SEPTEMBER, 1930. Class 41.

278,597. JELLY POWDERS, CIDER VINEGAR, TEA, MAYONNAISE, TABLE SYRUP, AND SALAD DRESSINGS. THE EAVEY CO., Xenia, Ohio.
Filed March 17, 1926. Serial No. 228,745. PUBLISHED NOVEMBER 29, 1927. Class 46.

278,598. MEN'S LEATHER HATBOXES, LEATHER SUITCASES, WOMEN'S LEATHER HAND BAGS. KNOX HAT COMPANY, INC., New York, N. Y.
Filed February 20, 1929. Serial No. 279,658. PUBLISHED SEPTEMBER 30, 1930. Class 3.

278,599. MEN'S DRESS, NEGLIGEE, AND WORK SHIRTS; SUITS; UNDERSHIRTS OF KNITTED, NETTED, OR TEXTILE FABRIC; COATS; AND WORK CLOTHES—NAMELY, OVERALLS; AND WOMEN'S DRESSES, COATS, AND CORSETS. NATIONAL BELLAS HESS CO. INC., New York, N. Y.
Filed November 6, 1928. Serial No. 274,885. PUBLISHED OCTOBER 7, 1930. Class 39.

278,600. HOSIERY. THE FALLS CITY MILLS CO., Louisville, Ky.
Filed August 6, 1928. Serial No. 270,631. PUBLISHED OCTOBER 30, 1928. Class 39.

278,601. MEN'S, WOMEN'S, AND CHILDREN'S SLIPPERS MADE OF LEATHER OR COMBINATIONS THEREOF. NATIONAL BELLAS HESS CO. INC., New York, N. Y.
Filed June 18, 1928. Serial No. 268,241. PUBLISHED OCTOBER 7, 1930. Class 39.

278,602. PENS, PENCILS, AND COMBINATION PENS AND PENCILS. PEN-O-PENCIL COMPANY, New York, N. Y.
Filed June 13, 1928. Serial No. 267,991. PUBLISHED MARCH 25, 1930. Class 37.

278,603. KITCHEN AND HOUSEHOLD TOOLS OR UTENSILS—TO WIT, CAKE TURNERS, SPATULAS, POTATO MASHERS, KNIVES OF BASE METAL, ICE PICKS, KITCHEN FORKS, APPLE CORERS, CAN OPENERS KITCHEN TROWELS, EGG BEATERS, AND VARIOUS TYPES OF KITCHEN SPOONS INCLUDING STRAINER SPOONS, BATTER SPOONS, BASTING SPOONS, STIRRING SPOONS, AND MIXING SPOONS. R. WALLACE & SONS MFG. CO., Wallingford, Conn.
Filed May 25, 1927. Serial No. 249,559. PUBLISHED AUGUST 2, 1927. Class 23.

278,604. WORK SHIRTS, OVERALLS, PANTS, BREECHES, FLANNEL SHIRTS, PLAY SUITS, AND MECHANIC SUITS. PYKE MFG. CO., Salt Lake City, Utah.
Filed July 21, 1930. Serial No. 303,699. PUBLISHED SEPTEMBER 30, 1930. Class 39.

278,605. HOSIERY FOR WOMEN. OSCAR NEBEL CO. INC., Hatboro, Pa.
Filed July 19, 1930. Serial No. 303,651. PUBLISHED OCTOBER 7, 1930. Class 39.

278,606. NIGHT ROBES AND PAJAMAS FOR MEN, WOMEN, MISSES, BOYS, AND CHILDREN. CHOCK-HOROWITZ CO., New York, N. Y.
Filed July 17, 1930. Serial No. 303,563. PUBLISHED OCTOBER 7, 1930. Class 39.

278,607. HOSIERY. LA SALLE HOSIERY COMPANY, INC., Philadelphia, Pa.
Filed July 15, 1930. Serial No. 303,508. PUBLISHED SEPTEMBER 30, 1930. Class 39.

278,608. RECIPE PAMPHLET ISSUED FROM TIME TO TIME. ITALIAN VINEYARD CO., Los Angeles, Calif.
Filed May 31, 1930. Serial No. 301,938. PUBLISHED OCTOBER 7, 1930. Class 38.

278,609. STUFFED DOLLS AND ANIMALS AND STUFFED TOYS—NAMELY, BALLS AND DOLL BEDDINGS. GRE-POIR, INC., New York, N. Y.
Filed May 27, 1930. Serial No. 301,342. PUBLISHED OCTOBER 7, 1930. Class 22.

278,610. SIGN CLOTH. FIELD, FRENCH & COMPANY, INC., Chicago, Ill.
Filed December 11, 1929. Serial No. 293,524. PUBLISHED OCTOBER 7, 1930. Class 42.

278,611. ALIMENTARY PASTES—NAMELY, MACARONI, SPAGHETTI, AND NOODLES; GRATED CHEESE, AND RAVIOLI. SUPERIOR MACARONI CO., Los Angeles, Calif.
Filed December 3, 1929. Serial No. 293,197. PUBLISHED OCTOBER 7, 1930. Class 46.

278,612. HOSIERY. WESTCOTT HOSIERY MILLS, Dalton, Ga.
Filed August 2, 1930. Serial No. 304,172. PUBLISHED OCTOBER 7, 1930. Class 39.

278,613. HOSIERY. EXCELSIOR MILLS, Union, S. C.
Filed August 1, 1930. Serial No. 304,096. PUBLISHED OCTOBER 7, 1930. Class 39.

278,614. LADIES', MISSES', AND CHILDREN'S CLOAKS, SUITS, DRESSES, SKIRTS, AND CAPES. CARSON PIRIE SCOTT & CO., Chicago, Ill.
Filed July 25, 1930. Serial No. 304,082. PUBLISHED SEPTEMBER 30, 1930. Class 39.

278,615. HOSIERY. WALTER FRED HOSIERY MILLS, INC., Nashville, Tenn.
Filed July 31, 1930. Serial No. 304,078. PUBLISHED OCTOBER 7, 1930. Class 39.

278,616. MALT SYRUP. FECKER COMPANY, Danville, Ill.
Filed July 25, 1930. Serial No. 303,805. PUBLISHED OCTOBER 7, 1930. Class 46.

278,617. CATSUP, CHILI SAUCE; RELISH COMPOSED OF PEPPERS, CELERY, CELERY SEED, ONIONS, MUSTARD SEED, VINEGAR, SUGAR, SALT, AND CUCUMBERS; TOMATO JUICE, TOMATO PURÉE. E. PRITCHARD, INC., Bridgeton, N. J.
Filed July 26, 1930. Serial No. 303,861. PUBLISHED OCTOBER 7, 1930. Class 46.

278,618. LIME. SAGINAW LIME & STONE CO., Saginaw, Ala.
Filed July 28, 1930. Serial No. 303,925. PUBLISHED OCTOBER 7, 1930. Class 12.

278,619. CANE SYRUP. WILLIAM E. SICKEL, Savannah, Ga.
Filed August 7, 1930. Serial No. 304,349. PUBLISHED SEPTEMBER 30, 1930. Class 46.

278,620. REFRACTORY CEMENT. E. J. LAVINO AND COMPANY, Philadelphia, Pa.
Filed August 13, 1930. Serial No. 304,564. PUBLISHED OCTOBER 7, 1930. Class 12.

278,621. PIPE-JOINT COMPOUNDS. WILLIAM MANO, Long Island City, N. Y.
Filed August 16, 1930. Serial No. 304,690. PUBLISHED OCTOBER 7, 1930. Class 12.

278,622. HOSIERY AND UNDERWEAR FOR MEN, WOMEN, AND CHILDREN. CHARLES A. COOK, doing business as Merchandise & Research Bureau, New York, N. Y.
Filed May 29, 1930. Serial No. 301,585. PUBLISHED SEPTEMBER 23, 1930. Class 39.

278,623. CLOTHING—NAMELY, MEN'S AND WOMEN'S SUITS, NECKTIES AND MUFFLERS, OVERCOATS, KNITTED AND TEXTILE UNDERWEAR AND HOSIERY; MEN'S NEGLIGEE AND DRESS SHIRTS AND POLO COATS; BOYS' AND CHILDREN'S PLAY SUITS, BLOUSES, AND KNITTED AND TEXTILE UNDERWEAR AND HOSIERY. KIRBY, BLOCK & FISCHER, INC., doing business as Cooperative Merchandising Bureau, New York, N. Y.
Filed May 31, 1930. Serial No. 301,947. PUBLISHED SEPTEMBER 30, 1930. Class 39.

278,624. COLLARS. MORRIS ISAAC HALPERIN, Brooklyn, N. Y.
Filed June 20, 1930. Serial No. 302,633. PUBLISHED OCTOBER 7, 1930. Class 39.

278,625. WOMEN'S, MISSES', CHILDREN'S, AND INFANTS' GOWNS FOR OUTER WEARING APPAREL FOR STREET, AFTERNOON, AND EVENING WEAR; DRESSES, SKIRTS, SUITS, WRAPS, COATS, CAPES, AND SWEATERS. I. MAGNIN & CO., San Francisco, Calif.
Filed June 25, 1930. Serial No. 302,828. PUBLISHED SEPTEMBER 30, 1930. Class 39.

278,626. MEN'S DRESS AND NEGLIGEE SHIRTS AND PAJAMAS. GOSHEN SHIRT MFG. COMPANY, Manistee, Mich., and Chicago, Ill.
Filed June 27, 1930. Serial No. 302,894. PUBLISHED SEPTEMBER 30, 1930. Class 39.

278,627. OVERALLS. THE DIARY PUBLISHING CORPORATION, New York, N. Y.
Filed June 28, 1930. Serial No. 302,936. PUBLISHED SEPTEMBER 30, 1930. Class 39.

278,628. HOSIERY. JOHN WANAMAKER NEW YORK, New York, N. Y.
Filed June 30, 1930. Serial No. 303,018. PUBLISHED OCTOBER 7, 1930. Class 39.

278,629. LADIES' AND JUNIORS' FROCKS, GOWNS, AND DRESSES. THOMAS POSNER & BRO., New York, N. Y.
Filed July 8, 1930. Serial No. 303,255. PUBLISHED SEPTEMBER 30, 1930. Class 39.

278,630. MEN'S NECKWEAR COMPRISING TIES AND SCARFS. WILLIAM NUZUM, doing business as Tie-D-Tie Co., New York, N. Y.
Filed July 9, 1930. Serial No. 303,296. PUBLISHED SEPTEMBER 30, 1930. Class 39.

278,631. GLOVE-SILK UNDERWEAR FOR MEN, WOMEN, CHILDREN, AND INFANTS. LUXITE SILK PRODUCTS CO., Milwaukee, Wis.
Filed July 10, 1930. Serial No. 303,333. PUBLISHED SEPTEMBER 30, 1930. Class 39.

278,632. RAINCOATS OF RUBBER AND FABRIC. UNITED STATES RUBBER COMPANY, New York, N. Y.
Filed July 10, 1930. Serial No. 303,353. PUBLISHED SEPTEMBER 30, 1930. Class 39.

278,633. METAL STUDDING, PLASTER BOARD, AND PLASTER. SIMPLEX STEEL PRODUCTS COMPANY, Chicago, Ill.
Filed July 24, 1930. Serial No. 303,790. PUBLISHED OCTOBER 7, 1930. Class 12.

278,634. MALT SYRUP. PROVIDENCE MALT COMPANY, Providence, R. I.
Filed July 17, 1930. Serial No. 303,580. PUBLISHED OCTOBER 7, 1930. Class 46.

278,635. CONFECTION CONSISTING OF FROZEN FRUITS AND FROZEN LIQUIDS CONTAINING FRUIT FLAVORS AND FRUIT JUICES. FRANK CANNATELLA, New Orleans, La.
Filed July 24, 1930. Serial No. 303,761. PUBLISHED OCTOBER 7, 1930. Class 46.

278,636. FLANNELETTE DIAPERS. THE MAY DEPARTMENT STORES COMPANY, St. Louis, Mo.
Filed July 16, 1930. Serial No. 303,539. PUBLISHED OCTOBER 7, 1930. Class 42.

278,637. BOND PAPER. M. P. BASSO & CO., INC., New York, N. Y.
Filed July 25, 1930. Serial No. 303,798. PUBLISHED OCTOBER 7, 1930. Class 37.

278,638. PLAYING CARDS. RUSSELL PLAYING CARD COMPANY, Jersey City, N. J.
Filed July 25, 1930. Serial No. 303,823. PUBLISHED OCTOBER 7, 1930. Class 22.

278,639. PAPER TOWELS, PAPER NAPKINS, TOILET PAPER, AND COLORED CREPE PAPER. FORT HOWARD PAPER COMPANY, Green Bay, Wis.
Filed July 29, 1930. Serial No. 303,960. PUBLISHED OCTOBER 7, 1930.. Class 37.

278,640. BOARD GAME. E. H. LAMBOTTE, Denver, Colo.
Filed July 29, 1930. Serial No. 303,968. PUBLISHED OCTOBER 7, 1930. Class 22.

278,641. MAGAZINE AND HOUSE ORGAN. LOCKWOOD GREENE ENGINEERS INC., Boston, Mass.
Filed August 2, 1930. Serial No. 304,151. PUBLISHED OCTOBER 7, 1930. Class 38.

278,642. COTTON BLANKETS. AVONDALE MILLS, Birmingham, Ala.
Filed August 5, 1930. Serial No. 304,229. PUBLISHED OCTOBER 7, 1930. Class 42.

278,643. CERTAIN NAMED GLASSWARE. THE CAMBRIDGE GLASS CO., Cambridge, Ohio.
Filed August 5, 1930. Serial No. 304,235. PUBLISHED OCTOBER 7, 1930. Class 33.

278,644. MAGAZINE PUBLISHED MONTHLY. FOX WEST COAST THEATRES, doing business as The Screen Mirror Publishing Company, Los Angeles, Calif.
Filed August 6, 1930. Serial No. 304,280. PUBLISHED OCTOBER 7, 1930. Class 38.

278,645. SUPPORTS FOR GOLF BAGS. HUGH B. G. GALT, Norfolk, Va.
Filed August 7, 1930. Serial No. 304,321. PUBLISHED OCTOBER 7, 1930. Class 22.

278,646. TITLE FOR PUBLICATION ISSUED FROM TIME TO TIME. THE FACTS PUBLISHING COMPANY, New York, N. Y.
Filed August 8, 1930. Serial No. 304,370. PUBLISHED OCTOBER 7, 1930. Class 38.

278,647. FOOD PRODUCTS—NAMELY, A DESSERT CONTAINING CORNSTARCH, SUGAR, AND SUITABLE FLAVORING MATERIAL. JELL-WELL DESSERT COMPANY, Los Angeles, Calif.
Filed May 22, 1930. Serial No. 301,038. PUBLISHED OCTOBER 7, 1930. Class 46.

278,648. VINOUS SAUCES AND CONDIMENTS, PARTICULARLY PREPARED MUSHROOMS AND PREPARED TRUFFLES. L. DANGLADE ET FILS, Libourne, France.
Filed May 27, 1930. Serial No. 301,383. PUBLISHED OCTOBER 7, 1930. Class 46.

278,649. MALT EXTRACT. SADIE BANKER, doing business as Everett Malt Products Co., Everett, Mass.
Filed May 29, 1930. Serial No. 301,558. PUBLISHED OCTOBER 7, 1930. Class 46.

278,650. CANNED FRUITS, VEGETABLES, FISH, ETC. MEXICAN WHOLESALE GROCERY CO., Los Angeles, Calif.
Filed May 31, 1930. Serial No. 301,981. PUBLISHED SEPTEMBER 30, 1930. Class 46.

278,651. EGGS, BABY CHICKS, AND LIVE POULTRY. A. E. WRIGHT, doing business as Pennrington Poultry Farm, Reidsville, N. C.
Filed June 4, 1930. Serial No. 302,172. PUBLISHED SEPTEMBER 30, 1930. Class 46.

278,652. ICE CREAM AND FORMED BODIES OF ICE CREAM. PRINCE & COMPANY, Sterling, Ill.
Filed June 13, 1930. Serial No. 302,408. PUBLISHED OCTOBER 7, 1930. Class 46.

278,653. COFFEE, CANNED FRUITS, CANNED LIMA BEANS, CANNED TOMATO SOUP, CANNED TOMATO PUREE, AND CANNED VEGETABLE SOUP. THE BURKE GROCERY COMPANY, Cincinnati, Ohio.
Filed June 20, 1930. Serial No. 302,623. PUBLISHED SEPTEMBER 30, 1930. Class 46.

278,654. FROZEN CONFECTIONERY. BIMBO CONFECTIONERY COMPANY, New Haven, Conn.
Filed June 23, 1930. Serial No. 302,721. PUBLISHED OCTOBER 7, 1930. Class 46.

278,655. CANNED CHICKEN BROTH, CANNED CHICKEN ROAST, CANNED CHICKEN WITH NOODLES, CANNED CHICKEN LOAF, CANNED CHICKEN-SANDWICH SPREAD. E. W. BAYES, Parsons, Kans.
Filed July 3, 1930. Serial No. 303,090. PUBLISHED OCTOBER 7, 1930. Class 46.

278,656. HOSIERY. NORTHWEST HOSIERY COMPANY, Seattle, Wash.
Filed July 31, 1930. Serial No. 304,061. PUBLISHED OCTOBER 7, 1930. Class 39.

278,657. HOSIERY. BURSON KNITTING COMPANY, Rockford, Ill.
Filed July 31, 1930. Serial No. 304,035. PUBLISHED OCTOBER 7, 1930. Class 39.

278,658. COATS, VESTS, TROUSERS, KNICKERBOCKERS, TOPCOATS, AND OVERCOATS FOR MEN, YOUTHS, AND BOYS. J. SCHOENEMAN, INCORPORATED, Baltimore, Md.
Filed July 30, 1930. Serial No. 304,016. PUBLISHED OCTOBER 7, 1930. Class 39.

278,659. SUITS, PANTS, TROUSERS, AND KNICKERS FOR MEN AND WOMEN. MARIA FICCIO, Tampa, Fla.
Filed July 30, 1930. Serial No. 304,002. PUBLISHED OCTOBER 7, 1930. Class 39.

278,660. WOMEN'S UNDERWEAR. STORYK BROS., New York, N. Y.
Filed July 29, 1930. Serial No. 303,977. PUBLISHED SEPTEMBER 30, 1930. Class 39.

278,661. SWIMMING SUITS AND SWEATERS. OLYMPIA KNITTING MILLS, INC., Olympia, Wash
Filed July 26, 1930. Serial No. 303,855. PUBLISHED SEPTEMBER 30, 1930. Class 39.

278,662. SWIMMING SUITS AND SWEATERS. OLYMPIA KNITTING MILLS, INC., Olympia, Wash.
Filed July 26, 1930. Serial No. 303,854. PUBLISHED SEPTEMBER 30, 1930. Class 39.

278,663. HOSIERY. BERKSHIRE KNITTING MILLS, Wyomissing, Pa.
Filed July 26, 1930. Serial No. 303,831. PUBLISHED SEPTEMBER 30, 1930. Class 39.

278,664. HOSIERY. BERKSHIRE KNITTING MILLS, Wyomissing, Pa.
Filed July 26, 1930. Serial No. 303,830. PUBLISHED SEPTEMBER 30, 1930. Class 39.

278,665. UNITARY CONTROL SYSTEM FOR DIRECT-CURRENT MOTORS. CUTLER-HAMMER, INC., Milwaukee, Wis.
Filed May 10, 1930. Serial No. 300,262. PUBLISHED JULY 8, 1930. Class 21.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

278,666. (CLASS 39. CLOTHING.) SAMUEL GITTELMAN, Washington, D. C. Filed May 28, 1930. Serial No. 301,430.

STOUT SLENDER SHOP

For Women's Coats, Suits, and Dresses.
Claims use since Oct. 15, 1929.

278,667. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PHILIP STRAUSS, Nanticoke, Pa. Filed May 24, 1930. Serial No. 301,213.

STRAUSS Cleenall

For Furniture Polish.
Claims use since Mar. 15, 1922.

278,668. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) J. LEONARD LEVERE, doing business as Levere Company, New York, N. Y. Filed May 15, 1930. Serial No. 300,575.

"If it is a Stone, we have it"

For Precious, Synthetic, and Imitation Stones.
Claims use since February, 1925.

278,669. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IOWA MASTER BREEDERS, INC., Onawa, Iowa. Filed Apr. 14, 1930. Serial No. 298,821.

CERTIFIED

TRIPLE

For Chicks.
Claims use since 1927.

278,670. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) F. H. VAHLSING, INC., Brooklyn, N. Y. Filed Apr. 11, 1930. Serial No. 298,731.

LIMESTONE

For Fresh Irish Potatoes.
Claims use since September, 1929.

278,671. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) WARD LA FRANCE TRUCK CORPORATION, Elmira, N. Y. Filed Mar. 19, 1930. Serial No. 297,560.

BUS-TRUK

For Motor Vehicles—Namely, Motor Trucks, Motor Busses, and Constructive Parts Thereof.
Claims use since Oct. 10, 1929.

278,672. (CLASS 45. BEVERAGES, NONALCOHOLIC.) NATIONAL PEPSI-COLA CORPORATION, Richmond, Va. Filed Mar. 11, 1930. Serial No. 297,145.

Demi-Dry

For Nonalcoholic, Maltless Beverages Sold as Soft Drinks and Ginger Ale.
Claims use since Oct. 18, 1929.

278,673. (CLASS 39. CLOTHING.) NOBILITY DRESS CO. INC., New York, N. Y. Filed Mar. 4, 1930. Serial No. 296,815.

FLAPPER STOUT

For Women's and Girls' Coats, Suits, and Dresses.
Claims use since October, 1929.

278,674. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) ROBERT H. LIEBERTHAL, New York, N. Y. Filed Feb. 21, 1930. Serial No. 296,352.

Kleen-Tuth PACK

For Combination Package of Toothbrush, Tooth Paste, and Floss.
Claims use since July 1, 1924.

278,675. (CLASS 39. CLOTHING.) ISMAN & BERNSTEIN, INC., New York, N. Y. Filed Jan. 2, 1930. Serial No. 294,307.

HEATHERTWEED

For Coats and Suits for Women and Misses.
Claims use since Oct. 10, 1929.

278,676. (CLASS 39. CLOTHING.) WINSTED HOSIERY COMPANY, New York, N. Y. Filed Nov. 30, 1929. Serial No. 293,123.

T.A.D. JONES

For Men's Woolen Shirts, Sweat Shirts, and Undershirts.
Claims use since Sept. 1, 1929.

278,677. (CLASS 39. CLOTHING.) WALTER FRED HOSIERY MILLS, INC., Nashville, Tenn. Filed Dec. 11, 1929. Serial No. 293,525.

BELMONT

For Hosiery.
Claims use since Oct. 1, 1929.

278,678. (CLASS 2. RECEPTACLES.) SPREEN-DROOP PAPER CO. INC., Brooklyn, N. Y. Filed Nov. 22, 1929. Serial No. 292,754.

GOOD AND SQUARE

For Containers or Paper Bags.
Claims use since Aug. 6, 1929.

278,679. (CLASS 39. CLOTHING.) LYRIC DRESS CO., New York, N. Y. Filed Nov. 18, 1929. Serial No. 292,541.

Tailored Miss

For Ready-to-Wear Ladies' Dresses.
Claims use since Oct. 15, 1929.

278,680. (CLASS 39, CLOTHING.) MAX WIESEN & SONS CO. INC., New York, N. Y. Filed Nov. 11, 1929. Serial No. 292,306.

Youth-Line

For Ladies' and Misses' Dresses.
Claims use since Oct. 10, 1929.

278,681. (CLASS 6, CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE J. R. WATKINS COMPANY, Winona, Minn. Filed Nov. 11, 1929. Serial No. 292,304.

VAPO-RISING

For Salve for the Treatment of Cuts, Wounds, Skin Disorders, Burns, Sprains, Insect Bites, Poison Ivy, Relieving Disorders Arising from Respiratory Congestion, Used Internally or as a Poultice, to be Either Applied to the Skin or Heated and the Vapors Inhaled.
Claims use since Oct. 19, 1929.

278,682. (CLASS 6, CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GIMBEL BROTHERS, INC., New York, N. Y. Filed Sept. 14, 1929. Serial No. 289,790.

PIERRE JACOULET

For Perfumes, Toilet Water, Face Powder, Bath Powder, Powder Compacts and Rouge Compacts, Lip Sticks, Bath Salts, Vanishing Cream, Cleansing Cream, Nourishing Cream, and Talcum.
Claims use since Feb. 1, 1929.

278,683. (CLASS 21, ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SAMUEL ALSOP, doing business as Alsop Engineering Company, New York, N. Y. Filed July 10, 1929. Serial No. 286,849.

Hy-Speed

For Electrically-Driven Agitators for Moving Liquids and Semiliquids Adapted for Use in Mixing, Bottle Filling, Filtering, and Pumping, Parts Thereof, and Electric Motors Therefor.
Claims use since early in 1923.

278,684. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Oct. 30, 1930. Serial No. 307,349.

VENTUBE

For Pyroxylin Coated or Impregnated Fabrics Made into Troughs and Tubes for the Transmission of Water, Air, and Other Gases, Which Troughs and Tubes Resist the Corrosive Action of Gases and are Used for the Purpose of Ventilating Any Place Which It is Desired to Make Fit for the Occupancy of Human Beings, Horses, Mules, and Other Beasts of Burden, Its Principal Use Being in Mines.
Claims use since Apr. 21, 1921.

278,685. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Oct. 3, 1930. Serial No. 306,371.

„Wear Well"

For Dolls.
Claims use since Sept. 1, 1915.

278,686. (CLASS 22, GAMES, TOYS, AND SPORTING GOODS.) HARRY N. KOPPLE, doing business as H. N. Kopple Company, Philadelphia, Pa. Filed Sept. 29, 1930. Serial No. 306,188.

KOPPLE BASEBALL

For a Baseball Game.
Claims use since July, 1929.

278,687. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HUGH NELSON-COLUMBIA CARPET MILLS, INC., Philadelphia, Pa. Filed Sept. 23, 1930. Serial No. 305,976.

DELMONT

For Textile Rugs and Carpets.
Claims use since June 24, 1929.

278,688. (CLASS 39. CLOTHING.) LAKEWOOD SHIRT CORPORATION, New York, N. Y. Filed Sept. 18, 1930. Serial No. 305,816.

RINKLE-PROOF

For Collars.
Claims use since June, 1927.

278,689. (CLASS 39. CLOTHING.) JOSEPH DANER-HIRSCH, doing business as Daner Co., New York, N. Y. Filed Aug. 12, 1930. Serial No. 304,488.

DANER CO

For Men's Furnishings—Namely, Collars, Dress and Work Shirts, Hose, Suspenders, Garters, Arm Bands, Leather and Fabric Gloves, Belts for Outer Wear, Ties, Underwear, Pajamas, Nightgowns, Bathing Suits, Mufflers, Robes, Slippers, Spats; Outer Wear—Namely, Knickers, Vests, Sweaters, Trousers, Overcoats, Hats, Caps.
Claims use since 1910.

278,690. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANK L. LINEHAN, doing business as F. L. Linehan Co., Minneapolis, Minn. Filed June 14, 1930. Serial No. 302,437.

STERLING

For Malt Syrup for Food Purposes.
Claims use since May 1, 1920.

278,691. (CLASS 39. CLOTHING.) J. SCHOENEMAN, INCORPORATED, Baltimore, Md. Filed June 13, 1930. Serial No. 302,414.

SPORTLINE

For Coats, Vests, Trousers, Knickerbockers, Topcoats, and Overcoats for Men, Youths, and Boys.
Claims use since Sept. 9, 1929.

TRADE-MARK REGISTRATIONS RENEWED

35,128. BOOTS AND SHOES. Registered September 25, 1900. JORDAN, MARSH & CO., Boston, Mass. Renewed September 25, 1930, to International Shoe Co., St. Louis, Mo., a Corporation of Delaware, successor.

35,634. REMEDIES FOR DISEASES OF STOMACH AND INTESTINES. Registered December 25, 1900. RAMÓN SAIZ Y CARLOS. Renewed December 25, 1930, to Laboratories Saiz De Carlos, S. L., Madrid, Spain, a Corporation of Spain, successor.

35,771. PHOTOGRAPHIC PAPER AND PLATES. Registered January 15, 1901. DR. LILIENFELD & CO., Vienna, Austria-Hungary. Renewed January 15, 1931, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

35,772. CERTAIN NAMED PHARMACEUTICAL PRODUCTS. Registered January 15, 1901. DR. LILIENFELD & CO., Vienna, Austria-Hungary. Renewed January 15, 1931, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

35,928. WOOL FAT AND WOOL-FAT PREPARATIONS. Registered February 19, 1901. NORDDEUTSCHE WOLLKÄMMEREI & KAMMGARNSPINNEREI, Bremen and Delmenhorst, Germany. Renewed February 19, 1931, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

35,930. MANURES, FERTILIZERS, AND LIQUIDS FOR SPRAYING PLANTS. Registered February 19, 1901. CHEMISCHE FABRIK RHENANIA, Aachen, Germany. Renewed February 19, 1931, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignment.

35,983. CERTAIN NAMED ATHLETIC GOODS. Registered February 26, 1901. WRIGHT & DITSON, Jersey City, N. J., and Boston, Mass., a Corporation of New Jersey. Renewed February 26, 1931.

35,997. COVERINGS FOR FLOORS, CEILINGS, AND BOILERS AND PLASTER. Registered March 5, 1901. C. & E. MAHLA, Nuremberg, Germany. Renewed March 5, 1931, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

36,046. OLEATES OF SODIUM. Registered March 12, 1901. VEREINIGTE CHININFABRIKEN ZIMMER & CO. GES. MIT BESCHRÄNKTER HAFTUNG, Frankfort-on-the-Main, Germany. Renewed March 12, 1931, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

36,050. MEDICINAL, TOILET, AND ANTISEPTIC PREPARATIONS. Registered March 12, 1901. NORDDEUTSCHE WOLLKÄMMEREI & KAMMGARNSPINNEREI, Bremen and Delmenhorst, Germany. Renewed March 12, 1931, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

36,098. SUGAR AND SYRUP. Registered March 19, 1901. THE GLUCOSE SUGAR REFINING CO., Jersey City, N. J., and Chicago, Ill. Renewed March 19, 1931, to Corn Products Refining Company, New York, N. Y., a Corporation of New Jersey, assignee.

78,625. CORSETS AND LADIES' OUTER CLOTHING. Registered June 28, 1910. MOOD. Renewed June 28, 1930, to Jennie M. Bodensiek, doing business as Mood, New York, N. Y., assignee by mesne assignments.

80,152. AXLE GREASE AND LUBRICATING GREASE. Registered November 8, 1910. THE RED "C" OIL M'F'G CO. OF BALTIMORE CITY, Baltimore, Md. Renewed November 8, 1930, to The Atlantic Refining Company, Philadelphia, Pa., a Corporation of Pennsylvania, assignee by mesne assignments.

80,780. MOLDING MATERIAL FOR DENTAL PURPOSES. Registered January 31, 1911. KARL HENNING, Klosterneuburg, Austria-Hungary. Renewed January 31, 1931, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

80,781. MOLDING MATERIAL FOR DENTAL PURPOSES. Registered January 31, 1911. KARL HENNING, Kosterneuburg, Austria-Hungary. Renewed January 31, 1931, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

80,861. CERTAIN CHEMICALS. Registered February 7, 1911, E. MERCK, Darmstadt, Germany. Renewed February 7, 1931, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

81,062. A REMEDY FOR THE NERVES OF THE BRAIN. Registered February 28, 1911. FARBWERKE VORM. MEISTER LUCIUS & BRÜNING, Hochst-on-the-Main, Germany. Renewed February 28, 1931, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of New York, assignee by mesne assignments.

81,082. FLUSHING TANKS AND HINGED SEATS FOR WATER-CLOSETS. Registered February 28, 1911. KNOTT-VAN ARNAM MANUFACTURING CO. Renewed February 28, 1931, to Van Arnam Manufacturing Co., Fort Wayne, Ind., a Corporation of Indiana, by change of name.

81,180. COTTON AND LINEN PIECE GOODS. Registered March 7, 1911. TRIPPE, BARKER & CO., New York, N. Y., a Corporation of New York. Renewed March 7, 1931.

81,222. PIMENTO CHEESE AND POTTED CHEESE. Registered March 14, 1911. J. L. KRAFT & BROS. COMPANY. Renewed March 14, 1931, to Kraft-Phenix Cheese Corporation, Chicago, Ill., a Corporation of Delaware, assignee by mesne assignments.

81,233. A MONTHLY PERIODICAL. Registered March 14, 1911. THE SOUTHERN PLANTER PUBLISHING CO., Richmond, Va., a Corporation of Virginia. Renewed March 14, 1931.

81,253. TEA AND COFFEE. Registered March 21, 1911. THE CLOVERDALE COMPANY, Boston, Mass. Renewed March 21, 1931, to The Cloverdale Company, Cambridge, Mass., a Corporation of Massachusetts.

81,304. HAIRBRUSHES AND TOOTHBRUSHES. Registered March 21, 1911. JULIUS SCHMID, INC., Astoria, N. Y. Renewed March 21, 1931, to Julius Schmid, Inc., New York, N. Y., a Corporation of New York.

81,321. COTTON LAMP WICKING. Registered March 28, 1911. ROBERT BISHOP, Trustee of the Estate of Robert Bishop, doing business as The Robert Bishop Mfg. Co., Boston, Mass. Renewed March 28, 1931.

81,476. COTTON MOPS. Registered April 11, 1911. JOHN P. NAWRATH. Renewed April 11, 1931, to J. P. Nawrath & Co., New York, N. Y., a Corporation of New York, successor.

81,510. INSULATING VARNISHES AND COMPOUNDS. Registered April 18, 1911. JOHN C. DOLPH CO., Long Island City, N. Y. Renewed April 18, 1931, to John C. Dolph Company, Newark, N. J., a Corporation of New York.

81,544. CERTAIN MEDICINAL REMEDIES. Registered April 18, 1911. PENINSULAR CHEMICAL CO. Renewed April 18, 1931, to The Pensiar Company, Detroit, Mich., a Corporation of Michigan, by change of name.

81,591. SHEET METAL. Registered April 25, 1911. THE CINCINNATI SHEET METAL & ROOFING COMPANY, Cincinnati, Ohio, a Corporation of Ohio. Renewed April 25, 1931.

81,635. CERTAIN FOODS. Registered April 25, 1911. THE SCUDDERS-GALE GROCER CO., St. Louis, Mo., a Corporation of Missouri. Renewed April 25, 1931.

81,654. A LIQUID COMPOUND USED FOR BLEACHING. Registered April 25, 1911. AUXILICE WOLFE, Pawtucket, R. I. Renewed April 25, 1931.

81,669. SPOOL COTTON. Registered May 2, 1911. BLODGETT & ORSWELL CO., Pawtucket, R. I. Renewed May 2, 1931, to W. Warren Thread Works, Westfield, Mass., a Corporation of Massachusetts, assignee.

81,744. A BLEND OF ROCK CANDY AND MAPLE SYRUP. Registered May 2, 1911. RIGNEY & COMPANY, Brooklyn, N. Y., a Corporation of New York. Renewed May 2, 1931.

81,809. HAM. Registered May 9, 1911. V. W. JOYNER. Renewed May 9, 1931, to V. W. Joyner and Company, Incorporated, Smithfield, Va., a Corporation of Virginia, assignee by mesne assignments.

81,832. UNDERWEAR OF KNITTED MATERIAL. Registered May 9, 1911. SUPREME UNDERWEAR MILLS, Utica, N. Y., a Corporation of New York. Renewed May 9, 1931.

LABELS

REGISTERED DECEMBER 23, 1930

38,394.—*Title:* BARDELL VIEWPACK NO. 8. For Miniature Post Cards and Like Articles. J. C. BARDELL, San Francisco, Calif. Published June 7, 1930.

38,395.—*Title:* GYM-NAS-TIX. For Shoes. NAT. C. BROWNER, New York, N. Y. Published November 24, 1930.

38,396.—*Title:* SAVERY SAVORY MUSHROOMS. For Mushrooms. CALIFORNIA MUSHROOM COMPANY, Whittier, Calif. Published August 6, 1930.

38,397.—*Title:* DUGAN'S PECAN ROLLS. For Pecan Rolls. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published November 10, 1930.

38,398.—*Title:* DUGAN'S CUP CAKES. For Cup Cakes. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published November 10, 1930.

38,399.—*Title:* MALTENA. FOR Cereals. EMIL A. ERICKSON, Minneapolis, Minn. Published November 1, 1930.

38,400.—*Title:* LAND O'LAKES. For Coffee. J. B. HOMPE & SON, Deer Creek, Minn. Published August 31, 1930.

38,401.—*Title:* DARLENE FROCKS. For Wash Dresses. A. F. KEATING CO. INC., Decatur, Ill. Published October 27, 1930.

38,402.—*Title:* MOTH SEAL. For Mothproof Garment Bags. L. B. CO., Chicago, Ill. Published January 2, 1930.

38,403.—*Title:* ROSELANE. For Cigars. EDW. J. LIEB, doing business as Lieb Cigar Company, Brooklyn, N. Y. Published October 15, 1930.

38,404.—*Title:* SONNY SOUTH. For Wheat Food Cereal (Farina). LOUISVILLE MILLING COMPANY, Minneapolis, Minn. Published November 3, 1930.

38,405.—*Title:* HAPPY BUNNY SR. PURE FOOD COLORS FOR EASTER EGGS. For Easter-Egg Colors. HAL PERN MFG. CO., INC., Brooklyn, N. Y. Published June 1, 1930.

38,406.—*Title:* PURITAN MALT. For Malt Extract. PURITAN MALT EXTRACT COMPANY, Milwaukee, Wis. Published July 1, 1930.

38,407.—*Title:* STANDARD EDGE GRAIN ROOFING SHINGLES. For Roofing Shingles. THE RED CEDAR SHINGLE BUREAU, Seattle, Wash. Published September 2, 1930.

38,408.—*Title:* REGAL. For Oleomargarine. REGAL STORES, INC., Indianapolis, Ind. Published July 8, 1930.

38,409.—*Title:* SHIRRIFF'S GOOD MORNING MARMALADE. For Marmalade. SHIRRIFF'S LIMITED, Toronto, Canada. Published October 2, 1930.

38,410.—*Title:* PARADISE FRUIT CAKE. For Cake. WARD BAKING CO., New York, N. Y. Published October 16, 1930.

PRINTS

REGISTERED DECEMBER 23, 1930

12,866.—*Title:* CLARK'S. For Shirts. CLARK'S DOLLAR STORES INC., Los Angeles, Calif. Published June 18, 1930.

12,867.—*Title:* CLARK'S DOLLAR STORES. For Shirts. CLARK'S DOLLAR STORES, INC., Los Angeles, Calif. Published July 30, 1930.

12,868.—*Title:* HE'S GETTING A WONDERFUL START IN LIFE. For Wheat Breakfast Food. THE CREAM OF WHEAT CORPORATION, Minneapolis, Minn. Published November 5, 1930.

12,869.—*Title:* DAGGETT'S CHOCOLATES. For Chocolates. DAGGETT CHOCOLATE COMPANY, Cambridge, Mass. Published October 6, 1930.

12,870.—*Title:* THE MOST LUSCIOUS CHOCOLATE CREAMS ARE DIPPED BY HAND (14–Z–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published March 19, 1930.

12,871.—*Title:* HILL BROS' VACUUM PACKING PROCESS SEALS IN ALL THE FLAVOR PRODUCED BY ROASTING COFFEE A FEW POUNDS AT A TIME (14–AE–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published March 27, 1930.

12,872.—*Title:* EVERY GRAIN OF RICE IS COOKED PERFECTLY IF ADDED TO THE BOILING WATER A LITTLE AT A TIME (14–AA–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published Apr. 23, 1930.

12,873.—*Title:* IF YOU SEE THE ARAB IT'S HILLS BROS COFFEE ROASTED A FEW POUNDS AT A TIME (14–AB–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published April 30, 1930.

12,874.—*Title:* YOU WON'T HAVE LUMPY GRAVY IF YOU ADD THE WATER A LITTLE AT A TIME (14–AC–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published May 7, 1930.

12,875.—*Title:* A LITTLE AT A TIME (14–AN–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published January 6, 1930.

12,876.—*Title:* DON'T TAKE A CHANCE! COMBINE THE MUFFIN INGREDIENTS A LITTLE AT A TIME (14–AD–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published June 11, 1930.

12,877.—*Title:* A LITTLE AT A TIME (14–BJ–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published February 20, 1930.

12,878.—*Title:* A FEW POUNDS AT A TIME (14–BK–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published February 22, 1930.

12,879.—*Title:* REMEMBER THIS IN MAKING PIE CRUST . . . ADD THE WATER A LITTLE AT A TIME (14–G–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published January 9, 1930.

12,880.—*Title:* OF ALL COFFEE TRADE-MARKS ONLY HILLS BROS' ARAB GUARANTEES COFFEE ROASTED A FEW POUNDS AT A TIME (14–AF–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published June 25, 1930.

12,881.—*Title:* A LITTLE AT A TIME (14–AP–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published January 8, 1930.

12,882.—*Title:* A FEW AT A TIME (14–AQ–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published January 10, 1930.

12,883.—*Title:* A LITTLE AT A TIME (14–AR–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published January 13, 1930.

12,884.—*Title:* A FEW POUNDS AT A TIME (14–AS–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published January 15, 1930.

12,885.—*Title:* A LITTLE AT A TIME (14–AT–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published January 17, 1930.

12,886.—*Title:* A LITTLE AT A TIME (14–AV–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published January 20, 1930.

12,887.—*Title:* A LITTLE AT A TIME (14–AW–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published January 22, 1930.

12,888.—*Title:* A FEW POUNDS AT A TIME (14–AX–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published January 25, 1930.

12,889.—*Title:* A LITTLE AT A TIME (14–AY–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published January 27, 1930.

12,890.—*Title:* A LITTLE AT A TIME (14–AZ–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published January 29, 1930.

12,891.—*Title:* ONLY A LITTLE AT A TIME. (14–BA–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published January 31, 1930.

12,892.—*Title:* ONE AT A TIME (14–BC–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published February 6, 1930.

12,893.—*Title:* A LITTLE AT A TIME (14–BD–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published February 8, 1930.

12,894.—*Title:* A LITTLE AT A TIME (14–BE–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published February 11, 1930.

12,895.—*Title:* A FEW POUNDS AT A TIME (14–BF–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published February 13, 1930.

12,896.—*Title:* A FEW POUNDS AT A TIME (14–BB–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published February 4, 1930.

12,897.—*Title:* A LITTLE AT A TIME (14–BG–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published February 15, 1930.

12,898.—*Title:* A LITTLE AT A TIME (14–BH–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published February 18, 1930.

12,899.—*Title:* A LITTLE AT A TIME (14–BL–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published March 10, 1930.

12,900.—*Title:* ONE AT A TIME (14–BM–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published March 12, 1930.

12,901.—*Title:* A FEW AT A TIME (14–BN–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published March 14, 1930.

12,902.—*Title:* FRENCH-FRIED POTATOES CAN BE DONE TO A TURN IF COOKED (14–T–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published March 17, 1930.

12,903.—*Title:* A FEW POUNDS AT A TIME (14–BP–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published March 17, 1930.

12,904.—*Title:* HERE'S THE VACUUM CAN THAT HOLDS HILLS BROS COFFEE ROASTED A FEW POUNDS AT A TIME (14–V–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published January 17, 1930.

12,905.—*Title:* DON'T BROWN YOUR ROAST, BASTE IT OFTEN—A LITTLE AT A TIME (14–W–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published January 29, 1930.

12,906.—*Title:* THE STEAK TASTES BETTER WHEN IT IS BROILED ON EACH SIDE A LITTLE AT A TIME (14–X–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published March 5, 1930.

12,907.—*Title:* HILLS BROS HAVE THE RIGHT IDEA IN ROASTING COFFEE . . . A LITTLE AT A TIME (14–Y–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published March 12, 1930.

12,908.—*Title:* HILLS BROS COFFEE HAS A FLAVOR NO OTHER COFFEE HAS BECAUSE IT IS ROASTED A FEW POUNDS AT A TIME (14–H–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published March 14, 1930.

12,909.—*Title:* IF YOU SEE THE ARAB IT'S HILLS BROS COFFEE, ETC. (14–M–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published January 15, 1930.

12,910.—*Title:* YOU CAN'T GO WRONG IN MAKING BISCUITS IF YOU ADD THE MILK ONLY A LITTLE AT A TIME (14–Q–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published January 17, 1930.

12,911.—*Title:* HILLS BROS COFFEE HAS A FLAVOR NO OTHER COFFEE HAS BECAUSE IT IS ROASTED (14–P–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published March 14, 1930.

12,912.—*Title:* IT'S RISKY TO COOK A LOT OF DOUGHNUTS AT ONCE . . . COOK ONLY A FEW AT A TIME (14–N–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published January 10, 1930.

12,913.—*Title:* HILLS BROS COFFEE HAS A FLAVOR NO OTHER COFFEE HAS BECAUSE IT IS ROASTED A FEW POUNDS AT A TIME (14–C–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published March 2, 1930.

12,914.—*Title:* NO CHANCE FOR THE MAYONNAISE TO SEPARATE IF YOU ADD THE OIL A LITTLE AT A TIME (14–D–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published May 4, 1930.

12,915.—*Title:* CAREFUL NOW! . . . ADD THAT CEREAL A LITTLE AT A TIME (14–A–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published January 5, 1930.

12,916.—*Title:* 28 CAKE RECIPES SAY . . . ADD THE SUGAR . . . ADD THE FLOUR . . . ADD THE MILK A LITTLE AT A TIME (14–B–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published February 2, 1930.

12,917.—*Title:* THE BEST RULE IN JELLY-MAKING—ADD THE WARM SUGAR TO THE FRUIT SYRUP A LITTLE AT A TIME (14–J–1930). For Coffee. HILLS BROS., San Francisco, Calif. Published May 16, 1930.

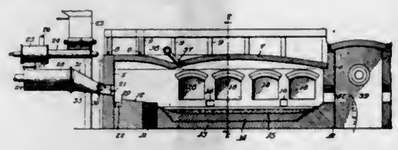
12,918.—*Title:* THANKSGIVING GREETINGS. For Lactogen, a Milk Product. NESTLE'S MILK PRODUCTS, INC., New York, N. Y. Published November 20, 1930.

12,919.—*Title:* MAMMA AND PAPA. For Malt Syrup. JOS. SCHLITZ BEVERAGE COMPANY, Milwaukee, Wis. Published November 17, 1930.

REISSUES

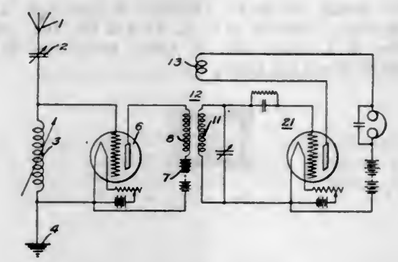
DECEMBER 23, 1930

17,908. FURNACE AND METHOD OF BURNING FUEL. MILTON W. ARROWOOD, Greenwich, Conn., assignor to Universal Engineers, Inc., Worcester, Mass., a Corporation. Filed Feb. 14, 1929. Serial No. 339,964. Original No. 1,617,510, dated Feb. 15, 1927, Serial No. 490,529, filed Aug. 8, 1921. 41 Claims. (Cl. 263—40.)



39. The combination with a heating chamber provided with a hearth constructed to contain a shallow bath, of means for delivering at relatively low velocity to said chamber a swirling turbulent combustible mixture comprising air with fuel uniformly diffused therethrough.

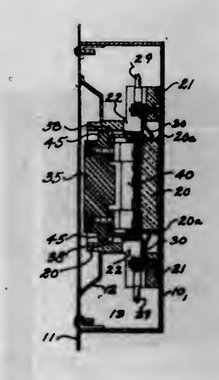
17,909. RADIO RECEIVING SYSTEM. MAX C. BATSEL, Yonkers, N. Y., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 29, 1930. Serial No. 492,002. Original No. 1,709,651, dated Apr. 16, 1929, Serial No. 634,762, filed Apr. 26, 1923. 4 Claims. (Cl. 250—20.)



1. A radio receiving system comprising a radio receptor circuit, a radio-frequency amplifier circuit, a regenerative detector adapted to receive oscillations from said receptor through said amplifier, and means for substantially preventing the transfer of oscillations in a reverse direction, said means comprising an oscillation transformer disposed between said amplifier circuit and said detector circuit, said transformer having a primary circuit the natural frequency of which is below the lowest radio-frequency which said receptor circuit is adapted and intended to receive.

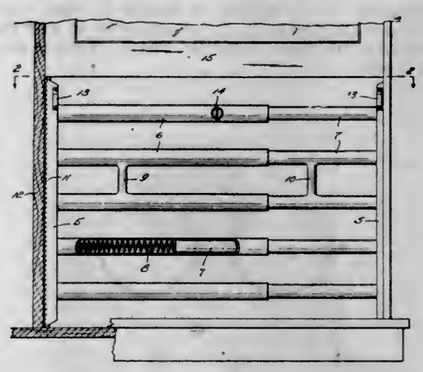
17,910. FUSED SWITCHING DEVICE. HARRISON J. L. FRANK, Detroit, Mich., assignor to Bull Dog Electric Products Company, Detroit, Mich., a Corporation of West Virginia. Filed June 9, 1930. Serial No. 460,069. Original No. 1,733,370, dated Oct. 29, 1929, Serial No. 160,751, filed Jan. 12, 1927. 22 Claims. (Cl. 200—133.)

1. In a fusing device, a cup-shaped socket of insulating material having ribs on opposite walls, contact members in the bottom of said socket on opposite sides of said ribs, a fuse block of insulating material having a rib thereon with fuse holding and contact means on either



side thereof, said fuse block adapted to fit into said socket and make contact between said means and members with said ribs in alignment whereby to form a dividing wall between said fuses and contacts.

17,911. WINDOW GRATING. OTTO M. REXINGER, Beverly Hills, Calif. Filed May 12, 1930. Serial No. 451,771. Original No. 1,662,167, dated Mar. 13, 1928, Serial No. 157,565, filed Dec. 28, 1926. 6 Claims. (Cl. 20—71.)

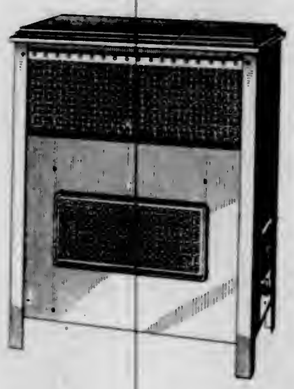


1. A device of the character described, comprising a pair of variably spaced parallel side members; a plurality of spaced pairs of telescopic members connecting and aligning the side members; springs within the outer telescopic members adapted for pushing the inner telescopic members outwardly to separate the side members; and means for locking the telescopic members in extended position.

DESIGNS

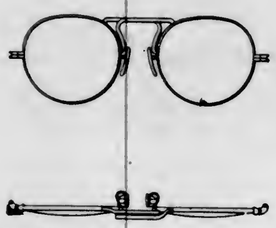
DECEMBER 23, 1930

82,870. SPACE HEATER. ALOYSIUS W. BECKER, Chicago, Ill., assignor to Econoheet Company, Chicago, Ill., a Corporation of Illinois. Filed July 11, 1930. Serial No. 36,328. Term of patent 14 years.



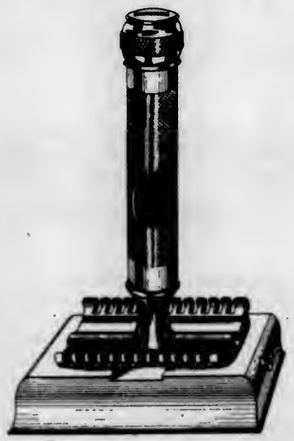
The ornamental design for a space heater, as shown.

82,871. SPECTACLE FRAME. SAMUEL E. BOUCHARD, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 28, 1930. Serial No. 35,415. Term of patent 14 years.



The ornamental design for a spectacle frame substantially as shown.

82,872. RAZOR-BLADE-VENDING-MACHINE CASING. ARTHUR J. BRANSTAD, Eau Claire, Wis. Filed Sept. 15, 1930. Serial No. 36,973. Term of patent 14 years.



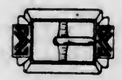
The ornamental design for a razor blade vending machine casing, as shown.

82,873. SHOE BUCKLE. CHARLES W. BRIGHAM, Attleboro, Mass., assignor to C. G. King & Co., Inc., Providence, R. I. Filed Oct. 4, 1930. Serial No. 37,127. Term of patent 3½ years.



The ornamental design for a shoe buckle as shown.

82,874. SHOE BUCKLE. CHARLES W. BRIGHAM, Attleboro, Mass., assignor to C. G. King & Co., Inc., Providence, R. I. Filed Oct. 4, 1930. Serial No. 37,128. Term of patent 3½ years.





The ornamental design for a shoe buckle as shown.

82,875. SHOE BUCKLE. CHARLES W. BRIGHAM, Attleboro, Mass., assignor to C. G. King & Co., Inc., Providence, R. I. Filed Oct. 4, 1930. Serial No. 37,129. Term of patent 3½ years.





The ornamental design for a shoe buckle as shown.

82,876. SHOE BUCKLE. CHARLES W. BRIGHAM, Attleboro, Mass., assignor to C. G. King & Co., Inc., Providence, R. I. Filed Oct. 4, 1930. Serial No. 37,131. Term of patent 3½ years.





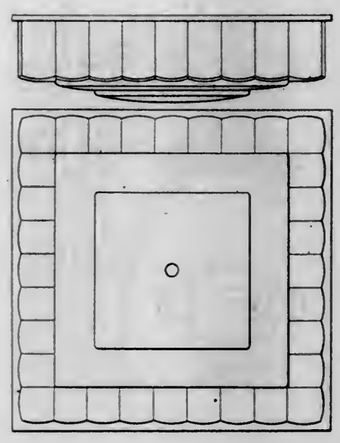
The ornamental design for a shoe buckle as shown.

82,877. LAMP. LE ROY O. BROWN, Chicago, Ill., assignor to Justrite Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 7, 1930. Serial No. 35,182. Term of patent 14 years.



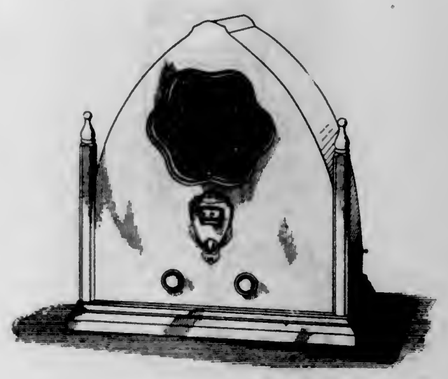
The ornamental design for a lamp as shown and described.

82,878. CEILING DIFFUSER CHANDELIER BOWL. KENNETH R. CRUMPTON, Pittsburgh, Pa., assignor to Kaufmann Department Stores, Inc., Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 8, 1930. Serial No. 37,186. Term of patent 14 years.



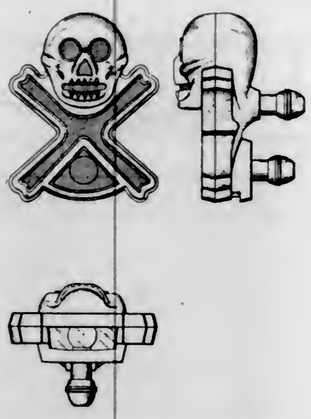
The ornamental design for a ceiling diffuser chandelier bowl, as shown.

82,879. RADIO CABINET. FRITZ W. FALCK, Los Angeles, Calif. Filed June 2, 1930. Serial No. 35,885. Term of patent 3½ years.



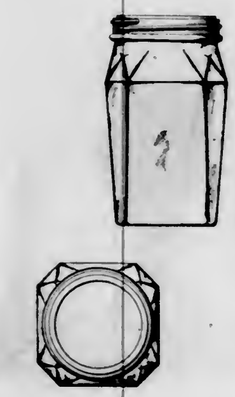
The ornamental design for a radio cabinet substantially as shown and described.

82,880. COMBINATION TAIL AND STOP LIGHT. ALEXANDER FISHER, Chicago, Ill. Filed Aug. 25, 1930. Serial No. 36,757. Term of patent 3½ years.



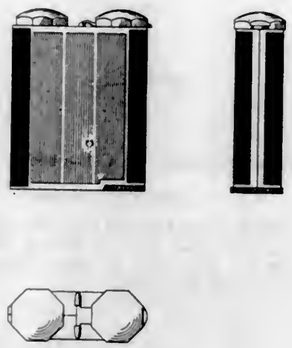
The ornamental design for a combination tail and stop light as shown and described.

82,881. JAR. EDWIN WENDELL FUERST, Toledo, Ohio, assignor to Owens-Illinois Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 9, 1930. Serial No. 37,204. Term of patent 14 years.



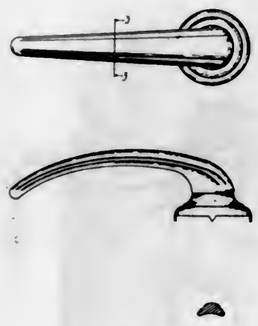
The ornamental design for a jar substantially as shown.

82,882. ATOMIZER. CHARLES S. GAGE, Tarrytown, and CHARLES T. MARDING, Elmhurst, N. Y., assignors to Lentheric, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 16, 1930. Serial No. 37,277. Term of patent 7 years.



The ornamental design for an atomizer substantially as shown.

82,883. MOTOR-VEHICLE-DOOR HANDLE OR SIMILAR ARTICLE. GEORGE GRAFF, Toledo, Ohio, assignor to The Dura Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 28, 1930. Serial No. 35,423. Term of patent 14 years.



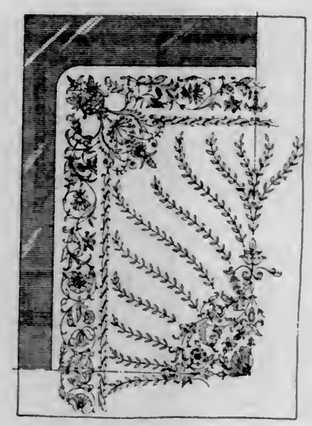
The ornamental design for a motor vehicle door handle or similar article substantially as shown.

82,884. TEXTILE PANEL FOR A MATTRESS COVERING. HERMAN HAUG, New York, N. Y., assignor to Rosemary Mfg. Co., Roanoke Rapids, N. C., a Corporation of North Carolina. Filed Mar. 22, 1930. Serial No. 35,001. Term of patent 3½ years.



The ornamental design for a textile panel for a mattress covering, as shown and described.

82,885. TEXTILE PANEL FOR A MATTRESS COVERING. HERMAN HAUG, New York, N. Y., assignor to Rosemary Mfg. Co., Roanoke Rapids, N. C., a Corporation of North Carolina. Filed Mar. 22, 1930. Serial No. 35,002. Term of patent 3½ years.



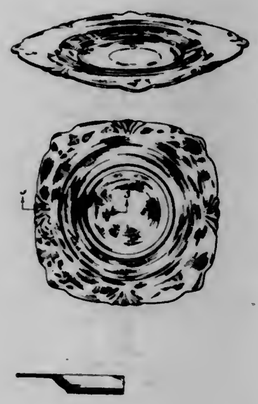
The ornamental design for a textile panel for a mattress covering as shown and described.

82,886. TEXTILE PANEL FOR A MATTRESS COVERING. HERMAN HAUG, New York, N. Y., assignor to Rosemary Mfg. Co., Roanoke Rapids, N. C., a Corporation of North Carolina. Filed Apr. 1, 1930. Serial No. 35,089. Term of patent 3½ years.



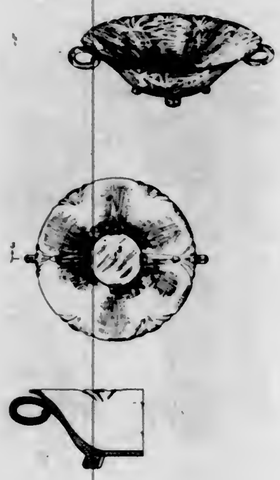
The ornamental design for a textile panel for a mattress covering, as shown and described.

82,887. GLASS PLATE OR ARTICLE OF SIMILAR NATURE. THOMAS CLARENCE HEISEY, Newark, Ohio, assignor to A. H. Heisey & Company, Newark, Ohio. Filed Oct. 27, 1930. Serial No. 37,400. Term of patent 14 years.



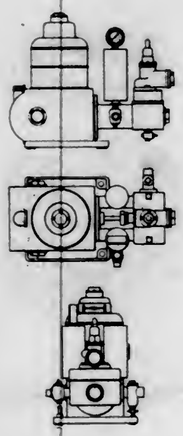
The ornamental design for a glass plate or article of similar nature as shown.

82,888. FLOWER BOWL OR ARTICLE OF SIMILAR NATURE. THOMAS CLARENCE HEISEY, Newark, Ohio, assignor to A. H. Heisey & Company, Newark, Ohio. Filed Oct. 27, 1930. Serial No. 37,401. Term of patent 14 years.



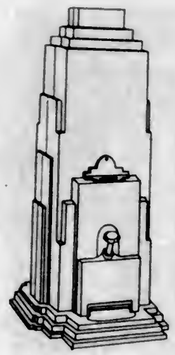
The ornamental design for a flower bowl or article of similar nature as shown.

82,889. CAR-WASHING PUMP. EDWARD A. HOBART, Troy, Ohio, assignor to The Hobart Bros. Company, Troy, Ohio, a Corporation of Ohio. Filed Sept. 16, 1930. Serial No. 36,987. Term of patent 7 years.



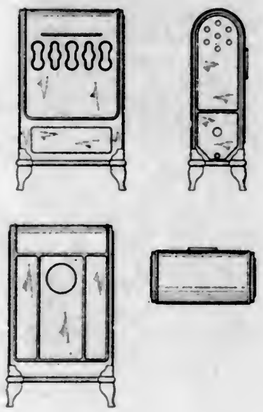
The ornamental design for a car washing pump, substantially as shown.

82,890. ARTICLE-DISPENSING MACHINE CASING. EDWARD KANTER and EMIL FELDMAN, Cleveland Heights, Ohio. Filed Aug. 27, 1930. Serial No. 36,792. Term of patent 14 years.



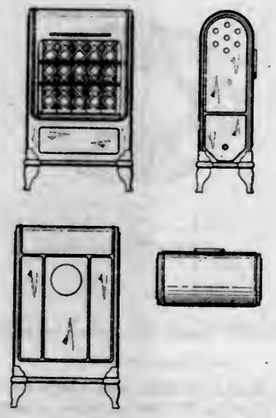
The ornamental design for an article dispensing machine casing, as shown.

82,891. GAS HEATER. HENRY KIELBERG, Martins Ferry, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va., a Corporation of Delaware. Filed Oct. 25 1930. Serial No. 37,385. Term of patent 7 years.



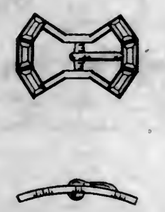
The ornamental design for a gas heater, as shown.

82,892. RADIANT GAS HEATER. HENRY KIELBERG, Martins Ferry, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va., a Corporation of Delaware. Filed Oct. 25, 1930. Serial No. 37,386. Term of patent 7 years.



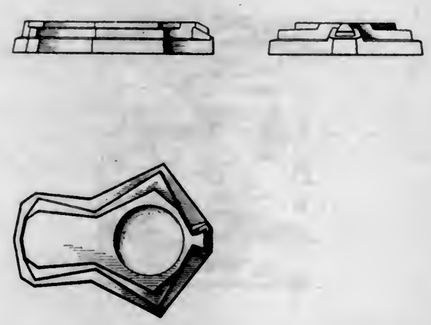
The ornamental design for a radiant gas heater, as shown.

82,893. SHOE BUCKLE. CLIFFORD G. KING, Barrington, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Filed Oct. 4, 1930. Serial No. 37,134. Term of patent 3½ years.



The ornamental design for a shoe buckle as shown.

82,894. ASH TRAY OR THE LIKE. ALBERT KLEIN, New York, N. Y. Filed Dec. 26, 1929. Serial No. 33,917. Term of patent 3½ years.



The ornamental design for an ash tray or the like substantially as shown.

82,895. COLLAR HOLDER. BORIS BLECHER, Philadelphia, Pa. Filed Oct. 3, 1930. Serial No. 37,116. Term of patent 14 years.



The ornamental design for a collar holder, substantially as shown.

82,896. BOTTLE RACK OR SIMILAR ARTICLE. CHARLES LIONEL MARCUS, New York, N. Y. Filed July 12, 1930. Serial No. 36,339. Term of patent 14 years.



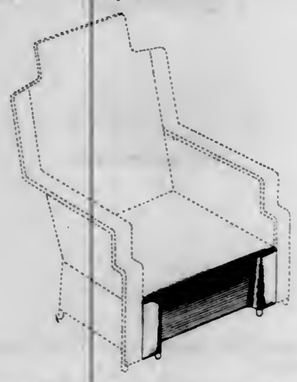
The ornamental design for a bottle rack or similar article, substantially as shown.

82,897. FOUNTAIN PEN OR SIMILAR ARTICLE. LOUIS MORRISON, New York, N. Y. Filed Apr. 4, 1930. Serial No. 35,159. Term of patent 7 years.



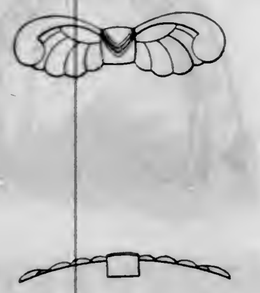
The ornamental design for a fountain pen or similar article as shown and described.

82,898. CHAIR OR THE LIKE. VINCENT OLIVA, New York, N. Y., assignor to Grand Central Wicker Shop, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 23, 1929. Serial No. 33 533. Term of patent 7 years.



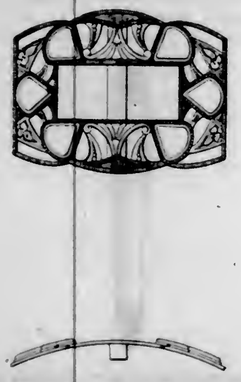
The ornamental design for a chair or the like, as shown.

82,899. SHOE ORNAMENT. ATTILIO R. PASCUCCI, Providence, R. I., assignor to Haverhill Shoe Novelty Company, Haverhill, Mass., a Corporation of Massachusetts. Filed Oct. 16, 1930. Serial No. 37,275. Term of patent 7 years.



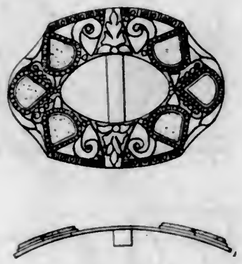
The ornamental design for a shoe ornament as shown.

82,900. SHOE ORNAMENT. ATTILIO R. PASCUCCI, Providence, R. I., assignor to Haverhill Shoe Novelty Company, Haverhill, Mass., a Corporation of Massachusetts. Filed Oct. 16, 1930. Serial No. 37,276. Term of patent 7 years.



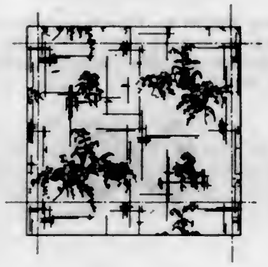
The ornamental design for a shoe ornament as shown.

82,901. SHOE ORNAMENT. ATTILIO R PASCUCCI, Providence, R. I., assignor to Haverhill Shoe Novelty Company, Haverhill, Mass., a Corporation of Massachusetts. Filed Oct. 17, 1930. Serial No. 37,282. Term of patent 7 years.



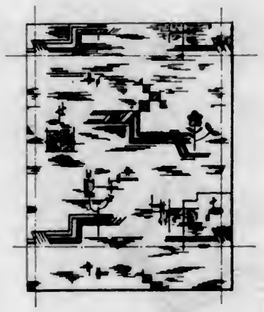
The ornamental design for a shoe ornament as shown.

82,902. WALL PAPER OR SIMILAR MATERIAL. JAMES G. PRAGER, Worcester, Mass., assignor to Prager Co., Inc., a Corporation of New York. Filed Mar. 17, 1930. Serial No. 34,935. Term of patent 3½ years.



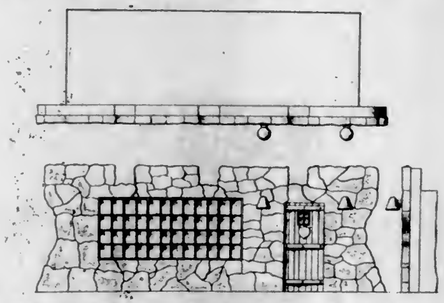
The ornamental design for wallpaper or similar material as shown and described.

82,903. WALL PAPER OR SIMILAR MATERIAL. JAMES G. PRAGER, Worcester, Mass., assignor to Prager Co., Inc., a Corporation of New York. Filed Mar. 17, 1930. Serial No. 34,936. Term of patent 3½ years.



The ornamental design for wallpaper or similar material as shown and described.

82,904. MERCHANDISE BOOTH. EARL S. PRINCE, Sterling, Ill., assignor to Prince & Company, Sterling, Ill., a Corporation composed of Earl S. Prince and Earl H. Prince. Filed June 13, 1930. Serial No. 36,043. Term of patent 14 years.



The ornamental design for a merchandise booth, as shown.

82,905. SHOE ORNAMENT. ORLANDO RICHARD RECCHIA, Cranston, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Filed Oct. 4, 1930. Serial No. 37,133. Term of patent 3½ years.



The ornamental design for a shoe ornament, as shown.

82,906. SHOE BUCKLE. ORLANDO RICHARD RECCHIA, Cranston, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Filed Oct. 20, 1930. Serial No. 37,323. Term of patent 3½ years.



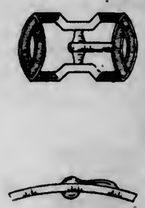
The ornamental design for a shoe buckle as shown.

82,907. SHOE BUCKLE. ORLANDO RICHARD RECCHIA, Cranston, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Filed Oct. 20, 1930. Serial No. 37,324. Term of patent 3½ years.



The ornamental design for a shoe buckle as shown.

82,908. SHOE BUCKLE. ORLANDO RICHARD RECCHIA, Cranston, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Filed Oct. 20, 1930. Serial No. 37,325. Term of patent 3½ years.



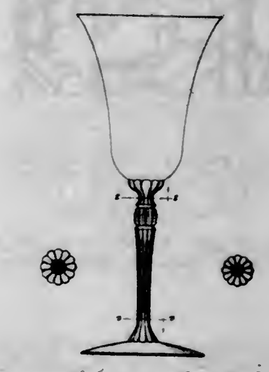
The ornamental design for a shoe buckle as shown.

82,909. GOBLET OR SIMILAR ARTICLE. GEORGE SAKIER, New York, N. Y., assignor to Fostoria Glass Company, Moundsville, W. Va., a Corporation of West Virginia. Filed Oct. 28, 1930. Serial No. 37,412. Term of patent 3½ years.



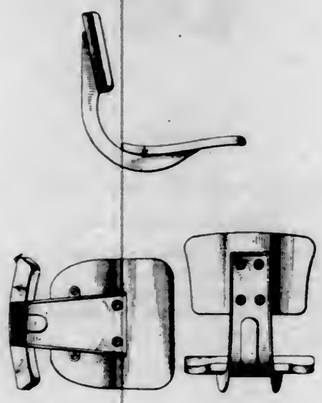
The ornamental design for a goblet or similar article, as shown.

82,910. GLASS GOBLET OR SIMILAR ARTICLE. EDWARD J. SCHAUB, Wheeling, W. Va., assignor to Central Glass Works, Wheeling, W. Va., a Corporation of West Virginia. Filed Oct. 28, 1930. Serial No. 37,411. Term of patent 3½ years.



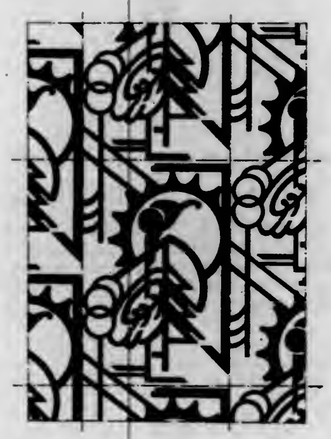
The ornamental design for a glass goblet or similar article, as shown.

82,911. COMBINATION CHAIR SEAT AND BACK. JAMES RILEY SCHMIDT, Trenton, N. J., assignor to New Jersey Seating Co., New York, N. Y., a Corporation of New Jersey. Filed Sept. 10, 1929. Serial No. 32,715. Term of patent 14 years.



The ornamental design for a combination chair seat and back, as shown.

82,912. TEXTILE FABRIC OR SIMILAR ARTICLE OF MANUFACTURE. HULDA M. SCHWEER, New York, N. Y. Filed Aug. 16, 1930. Serial No. 36,690. Term of patent 7 years.



The ornamental design for a textile fabric or similar article of manufacture as shown and described.

82,913. LINK CHAIN. OLIVER SELLE, St. Louis, Mo. Filed Aug. 6, 1930. Serial No. 36,575. Term of patent 7 years.



The ornamental design for a link chain, as shown.

82,914. CASING FOR AN IMPULSE-SENDING MACHINE. HANS SENGEBUSCH, Villa Park, Ill., assignor to Reserve Holding Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 19, 1930. Serial No. 35,314. Term of patent 14 years.



The ornamental design for a casing for an impulse sending machine, as shown and described.

82,915. CORNER CHINA CLOSET. GEORGE A. SIMONS and GEORGE FREEBERG, Minneapolis, Minn., assignors to Simons Millwork, Inc., Minneapolis, Minn., a Corporation of Minnesota. Filed May 24, 1929. Serial No. 31,395. Term of patent 14 years.



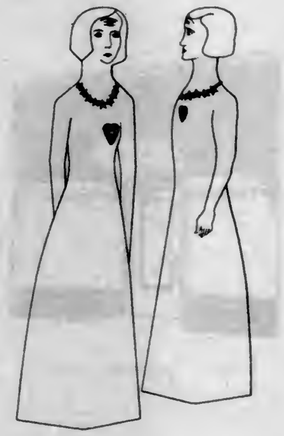
The ornamental design for a corner china closet as shown.

82,916. CORNER CHINA CLOSET. GEORGE A. SIMONS and GEORGE FREEBERG, Minneapolis, Minn., assignors to Simons Millwork, Inc., Minneapolis, Minn., a Corporation of Minnesota. Filed May 24, 1929. Serial No. 31,396. Term of patent 14 years.



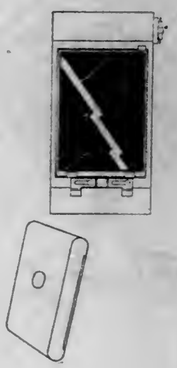
The ornamental design for a corner china closet as shown.

82,917. DOLL. VIOLET D. STEINEMANN, Los Angeles, Calif. Filed Feb. 3, 1930. Serial No. 34,387. Term of patent 3½ years.



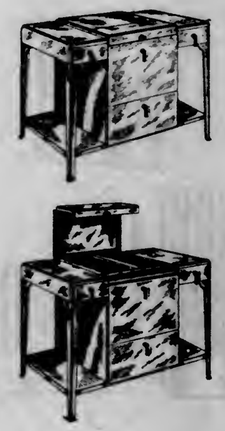
The ornamental design for a doll as shown.

82,918. CAMERA CASING OR THE LIKE. WALTER D. TEAGUE, New York, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed July 26, 1930. Serial No. 36,479. Term of patent 3½ years.



The ornamental design for a camera casing or the like, as shown and described.

82,919. CABINET GAS OR ELECTRIC RANGE. JACOB TELLER, Chicago, and ARTHUR P. SCHULZ, Berwyn, Ill., assignors to Teller Corporation, Chattanooga, Tenn., a Corporation of Tennessee. Filed Oct. 23, 1930. Serial No. 37,363. Term of patent 7 years.



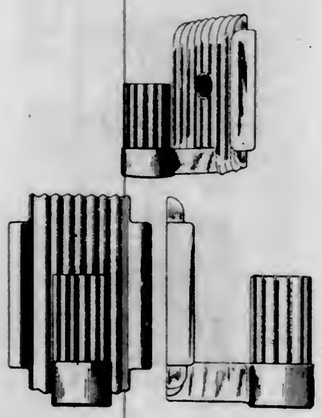
The ornamental design for a cabinet gas or electric range as shown.

82,920. ASH RECEIVER. VOLNEY WAYNE THOMSON, Portsmouth, Ohio. Filed Nov. 9, 1929. Serial No. 33,393. Term of patent 14 years.



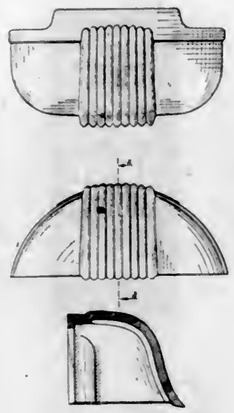
The ornamental design for an ash receiver substantially as shown.

82,921. LIGHTING FIXTURE OR ARTICLE OF SIMILAR NATURE. WALTER VON NESSEN, New York, N. Y., assignor to Efcolite Corporation, Trenton, N. J. Filed May 24, 1930. Serial No. 35,746. Term of patent 7 years.



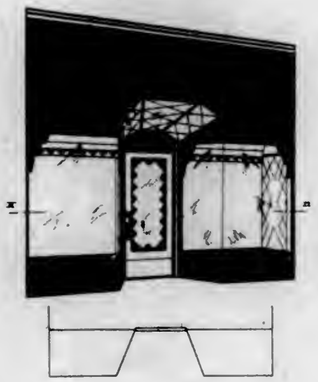
The ornamental design for a lighting fixture, or article of similar nature, as shown.

82,922. LIGHTING FIXTURE SHADE OR ARTICLE OF SIMILAR NATURE. WALTER VON NESSEN, New York, N. Y., assignor to Efcolite Corporation, Trenton, N. J. Filed Sept. 17, 1930. Serial No. 36,993. Term of patent 7 years.



The ornamental design for a lighting fixture shade or article of similar nature, as shown.

82,923. STORE FRONT. JACOB ROBERT WOLF, Pittsburgh, Pa., assignor to Smart Set Shops, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 26, 1929. Serial No. 33,168. Term of patent 3½ years.



The ornamental design for a store front, as shown.

82,924. WATER COOLER. RICHARD C. WOLFE, Los Angeles, Calif., assignor to California Consolidated Water Co., Los Angeles, Calif., a Corporation of Delaware. Filed Oct. 30, 1930. Serial No. 37,446. Term of patent 14 years.



The ornamental design for a water cooler, as shown.

82,925. SHOE-HEEL COVER. JOSEPH BURGER, Brooklyn, N. Y. Filed Aug. 9, 1930. Serial No. 36,617. Term of patent 14 years.

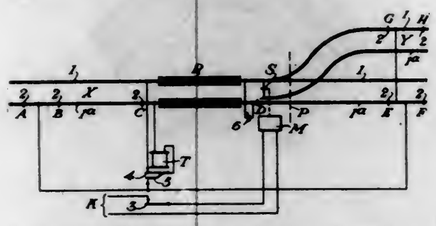


The ornamental design for a shoe heel cover, substantially as shown.

PATENTS

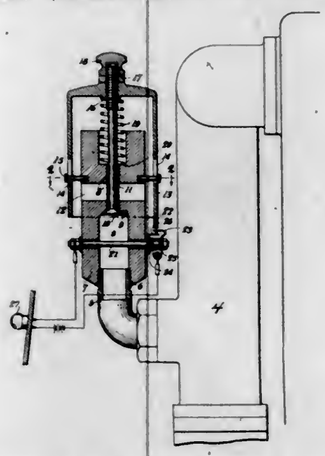
GRANTED DECEMBER 23, 1930

1,785,725. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. VINCENT S. ALEXANDER, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed May 17, 1930. Serial No. 453,358. 9 Claims. (Cl. 246—41.)



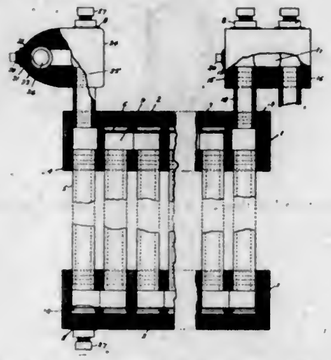
1. In combination, a stretch of railway track, one rail of which is divided by insulated joints to form a main section and at least one pick-up section, a track relay having a front and a back contact so adjusted that when the relay becomes energized the back contact does not open until after the front contact has closed, one terminal of the winding of said relay being connected with the divided track rail of said main section, means for connecting the other terminal with the undivided rail through said front contact or with the divided rail of the pick-up section through said back contact, and a source of current connected across the undivided rail and the divided rail of the main section.

1,785,726. AIR-REGULATING DEVICE FOR INTERNAL-COMBUSTION ENGINES. ALEXANDER BALASH, Vaux Hall, N. J. Filed Mar. 9, 1929. Serial No. 345,850. 1 Claim. (Cl. 251—145.)



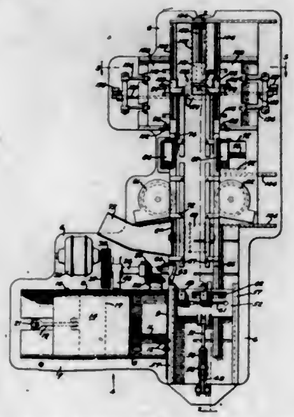
An automatic air regulating device comprising a block having communicating longitudinal and transverse passages, said block having a chamber opening into the longitudinal passage, a valve for closing the opening between the longitudinal passage and the chamber, a rod fixed to the valve and extending through the longitudinal passage, a casing surrounding the block and spaced apart therefrom, said block having slots in its sides, a boss on said casing in threaded engagement with an end of the rod, a spring between the boss and the block to normally maintain the casing in a predetermined position relative to the block, and pins projecting from the block and slidable in the slots in the casing to limit the movement of the latter.

1,785,727. END CONNECTER FOR TUBES. MATVEY A. CAPELIUSCHNICOFF, New York, N. Y., assignor of one-half to Vladimir G. Shukhoff, Moscow, Union of Soviet Socialist Republics. Filed Nov. 8, 1929. Serial No. 405,688. 4 Claims. (Cl. 122—360.)



1. In a tube end connecter, the combination with a block of an elongated shape provided with a plurality of transverse apertures, of plugs closing said apertures on one side of said block, said apertures on the other side of said block being adapted to receive the ends of tubes, said apertures inside of said block being eccentrically counterbored, said counterbores of each consecutive pair of said apertures merging into each other so as to form a communicating passage inside of said block between said adjacent apertures.

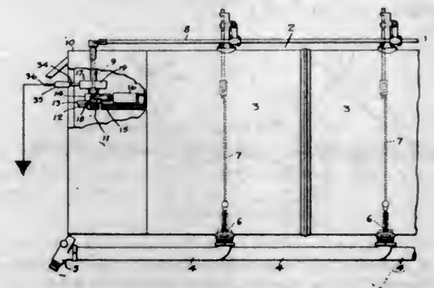
1,785,728. SPLINING MACHINE. CHARLES W. CARR and ELWOOD I. TRIPP, Susanville, Calif., assignors of one-fourth to Frank B. Hutchens, San Francisco, Calif., and one-fourth to Earl B. Birmingham, Susanville, Calif. Filed Apr. 16, 1928. Serial No. 270,453. 11 Claims. (Cl. 144—2.)



1. A device for applying a fluid in a groove, comprising a reservoir for the fluid, having a slot in register with

the groove, a strip arched over said slot and adapted to enter the groove, and means for feeding a grooved article past the slot.

1,785,729. SAFETY DEVICE FOR TANKS. AUGUSTINE DAVIS, Jr., Cincinnati, Ohio. Filed Nov. 4, 1927. Serial No. 231,116. 6 Claims. (Cl. 175—264.)

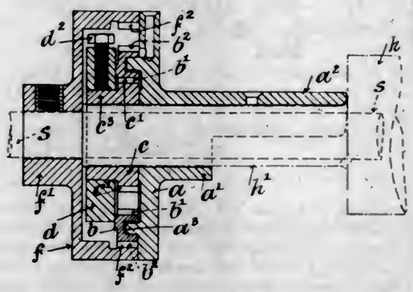


1. The combination of a tank having an outlet passage through which liquid is withdrawn from the lower portion of a tank, a valve for opening and closing said passage, a lock for preventing opening of said valve, and means adapted to be applied to release said lock and by such application to electrically ground the tank prior to the discharge of liquid from said outlet passage.

1,785,730. DI-ALKYL UREA. TENNEY L. DAVIS, Norwell, Mass. Filed Nov. 5, 1927. Serial No. 231,386. 7 Claims. (Cl. 260—125.) (Granted under the act of Mar. 3, 1883, 22 Stat L., 625.)

1. The process for the preparation of sym-di-alkyl ureas which consists in heating urea in the presence of a primary amine of the aliphatic series to a temperature of reaction.

1,785,731. DIFFERENTIAL MOTION FOR TRAVERSING CARD GRINDING ROLLERS. JAMES DRONSFIELD, Oldham, England. Filed Jan. 5, 1929, Serial No. 330,553, and in Great Britain Mar. 24, 1928. 4 Claims. (Cl. 74—7.)



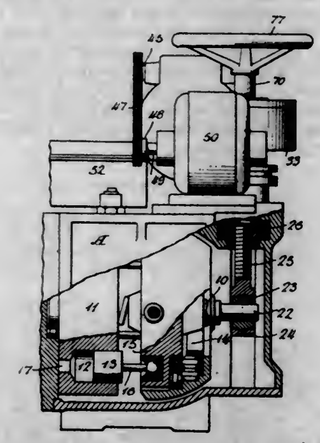
1. An enclosed differential motion for traversing card grinding rollers, comprising a stationary supporting plate, means for fixing said supporting plate against rotation, an eccentric ring projecting from said supporting plate, an intermediate pinion having an annular groove in one face thereof, said groove engaging said eccentric ring, said intermediate pinion having an external ring of teeth and an internal ring of teeth, a driving pinion having teeth in mesh with the internal ring of teeth on the intermediate pinion, said driving pinion having a boss, a rotatable hollow sleeve passing through said pinions, means for fixing said boss to said sleeve for rotation therewith, an exterior casing having a ring of internal teeth in mesh with a portion of the external teeth on the intermediate pinion, all of said rings of teeth being in radial alinement, a right and left-hand screw-threaded shaft mounted for rotation in said sleeve and passing through said casing, and means for fixing said casing on said shaft for rotation therewith.

1,785,732. FOUNTAIN BRUSH. JAMES FLOCKHART, San Francisco, Calif., assignor to The Flockhart Company, San Francisco, Calif., a Corporation of California. Filed Sept. 30, 1929. Serial No. 396,082. 5 Claims. (Cl. 15—139.)



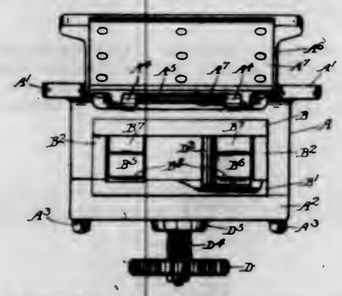
1. A fountain brush of the class described, comprising a flat body member having an open paint reservoir extending across its lower end, a plate extending across the body member from side to side, and top to bottom, and forming one wall of the reservoir, a transverse pivot member intermediate the top and bottom, a spring acting to hold the plate in contact with the bottom of the reservoir, and a rubber spreader secured to the bottom of said plate.

1,785,733. CONTROL MEANS FOR VARIABLE-SPEED TRANSMISSIONS. DANIEL R. FRANCIS, Waterbury, Conn., assignor to The Waterbury Tool Company, Waterbury, Conn., a Corporation of Connecticut. Filed July 24, 1929. Serial No. 380,474. 10 Claims. (Cl. 74—14.)



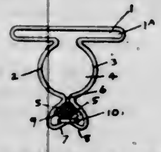
1. The combination of a variable speed gear having a swash plate adapted to be adjusted to different inclined positions to vary the effective speed of said gear, control means for changing the angle of inclination of said swash plate, a coupling member connected with said control means, means for automatically operating said control means, means for manually operating said control means independently of said automatic means, and a connection whereby the operative movements of both the automatic and manually operated means are transmitted to the coupling member and to the control means.

1,785,734. CONNECTER FOR ELECTRIC-TRAIN LIGHTS AND THE LIKE. ALBERT E. GANZERT, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a Corporation of New Jersey. Filed Aug. 5, 1927. Serial No. 210,771. 3 Claims. (Cl. 173—332.)



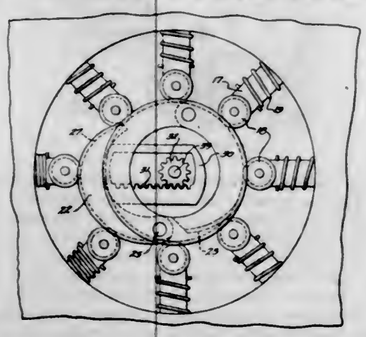
1. In an insulating box for electric train circuit connectors and the like, a plurality of conductor sockets contained therein, the opposed walls of the box being recessed and an insulating plate loosely held against displacement within the recess interposed between the conductor sockets.

1,785,735. BUTTON LOOP. GEORGE B. HEATHER, West Haven, Conn., assignor to The Wire Novelty Manufacturing Company, West Haven, Conn., a Corporation of Connecticut. Filed Feb. 20, 1930. Serial No. 429,949. 3 Claims. (Cl. 24—224.)



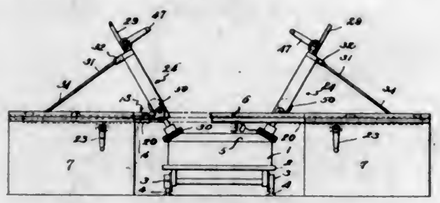
1. A button loop comprising a resilient wire bent to form associated loops in axial alignment, the loops having an intermediate restricted throat portion and the end portions of the wire extending relatively crossed within a loop along intersecting arcs described by the end portions upon the expansion and contraction of the loops; means provided by the end portions to limit their relative movement in the plane of the loops; and an enclosing member securing the end portions against relative movement out of the said plane.

1,785,736. CAM. JOHN P. HESS, Milwaukee, Wis. Original application filed Nov. 28, 1927, Serial No. 236,101. Divided and this application filed July 30, 1928. Serial No. 296,242. 4 Claims. (Cl. 74—1.)



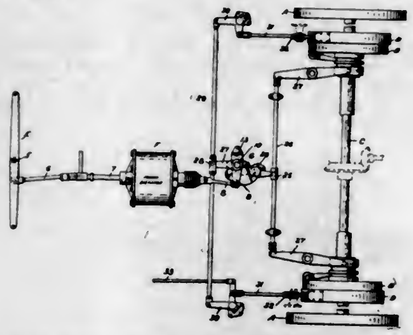
1. A cam comprising a cam body, wings comprising hinged portions of the surface of the cam having ribbed surfaces, ribbed portions of the cam body to mate with the free ends of the wings, whereby to provide a continuous path for a cam follower.

1,785,737. STONE CUTTING AND POLISHING MACHINE. ROBERT B. JONES, Barre, Vt., assignor to Jones Brothers Company, Boston, Mass., a Corporation of Maine. Filed Aug. 26, 1927. Serial No. 215,602. 6 Claims. (Cl. 51—112.)



2. A machine for cutting or polishing washes on stone bases comprising a support, a carriage horizontally slidable thereon, means for adjusting the position of the carriage with respect to the support, a frame pivotally mounted in the carriage for swinging movement in a vertical plane, means for varying the angular position of the frame with respect to the carriage, bearings in the frame, a shaft in the bearings, a disk mounted on one end of the shaft having its outer face provided with abrasive material, and driving means effective in any adjusted position of the disk.

1,785,738. STEERING-CONTROL SYSTEM FOR VEHICLES. HARRY A. KNOX and BERT F. BAKER, Davenport, Iowa. Filed Mar. 17, 1930. Serial No. 436,613. 3 Claims. (Cl. 180—17.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)



1. In a control system for power vehicles, a pair of steering clutches and brake mechanisms, a control member and operative connections between the control member and the steering clutches and brake mechanisms including a power operator under control of the control member, a cam member movable by the power operator, a lever having one end under control of the cam member, a rod reciprocable by said lever to selectively disengage the clutches, a lever having the same angular movement as the cam member, and a rod reciprocable by said lever to selectively apply the brake mechanisms.

1,785,739. METHOD OF PEAT MINING. MICHAIL N. KOZELIN, Moscow, Russia. Filed July 28, 1928, Serial No. 296,080, and in Russia Dec. 10, 1926. 3 Claims. (Cl. 44—29.)

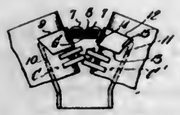
1. The method of peat mining consisting in crushing and disintegrating the top layer of peat in the field,

gathering the finely crushed material into sharp edged ridges with wide burrows, between said ridges, periodically removing thin dried layers from the inclined sides



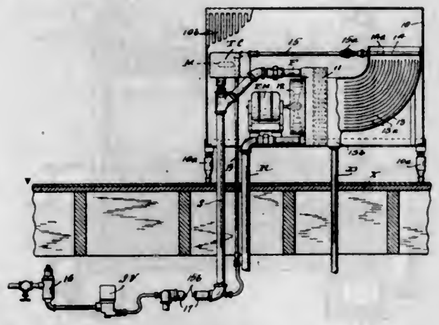
of said ridges, and building new ridges from said dried material in said burrows until said first ridges are completely removed.

1,785,740. SEPARABLE FASTENER. ROBERT C. LEGAT, New Britain, Conn., assignor to G. E. Prentice Manufacturing Company, New Britain, Conn., a Corporation of Connecticut. Filed July 23, 1929. Serial No. 380,337. 2 Claims. (Cl. 24—205.)



1. In combination with a separable fastening device of the kind having flexible stringers defining the opposite edges of a gap, a series of fastener elements carried by each stringer and an actuating slider comprising guide elements defining channels for the respective series of fastener elements, a stop firmly attached to the stringer adjacent to the end of one series of fastener elements in such a manner that the edge of the stop nearest the edge of the gap is closely adjacent and substantially parallel to the edge of said stringer, the depth and lateral width at the base of the stop being such as to permit the stop to enter the channel of the slider, the top of the stop having substantially the same depth but having a lateral width which prevents the stop from completely entering the channel of the slider although permitting a sufficient entry to effect a substantial closure of the gap.

1,785,741. AIR-CONDITIONING SYSTEM. CARROLL E. LEWIS, St. Paul, Minn., assignor to The Lewis Corporation, Inc., Minneapolis, Minn., a Corporation of New Mexico. Filed July 29, 1929. Serial No. 381,905. 6 Claims. (Cl. 236—44.)



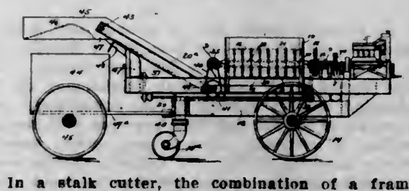
1. In an air conditioning system, a device for controlling delivery of liquid to a humidifier, a humidity actuated regulator, connections between said regulator and said delivery control device, a heating medium, a thermally actuated regulator subjected to said heating medium and connections between said last mentioned regulator and said humidity actuated regulator to render said humidity regulator operative.

1,785,742. FLOTATION MATERIAL AND PROCESS OF MAKING SAME. STUART P. MILLER, Philadelphia, Pa., assignor to The Barrett Company, a Corporation of New Jersey. Filed Nov. 17, 1924. Serial No. 750,505. 17 Claims. (Cl. 252—9.)

1. A flotation reagent comprising a solvent and the mother liquor obtained in the purification of crude alpha-naphthylamine by forming a solution of crude alpha-naphthylamine in a solvent, partially crystallizing the alpha-naphthylamine of the solution, and separating the crystals.

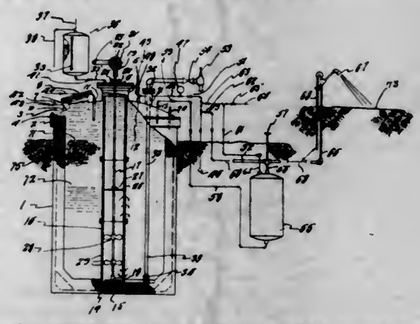
15. In a process for concentrating ores by flotation, the improvement which consists in employing as a flotation agent a mother liquor comprising alpha-naphthylamine and other constituents of crude alpha-naphthylamine, obtained by forming a solution of crude alpha-naphthylamine in an organic solvent, partially crystallizing the alpha-naphthylamine content of the solution and separating the crystals.

1,785,743. CANE CUTTER. WILLIAM HENRY MORGAN, Alliance, Ohio, assignor, by mesne assignments, to The Morgan Hurrycane Company, New York, N. Y., a Corporation of Florida. Filed Dec. 19, 1924. Serial No. 756,992. 11 Claims. (Cl. 146—122.)



1. In a stalk cutter, the combination of a frame, a hopper on said frame, stalk cutting apparatus within said hopper, means for delivering the stalks to the cutter, a rear end conveyor, a trash guiding device at the rear of the rear end of said conveyor and a blower adapted to discharge an air blast between the discharge end of the rear conveyor and the trash guiding device.

1,785,744. PROCESS AND APPARATUS FOR GENERATING SMOKE SCREENS. NICHOLAS E. OGLESBY, Edgewood, Md. Filed Dec. 21, 1927. Serial No. 241,639½. 17 Claims. (Cl. 252—1.) (Granted under the act of Mar. 3, 1883, 22 Stat. L., 625.)

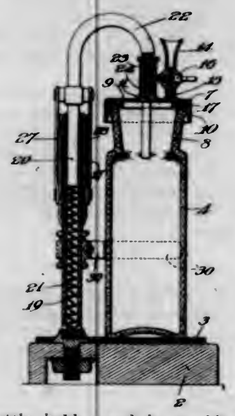


1. An apparatus for dispersing solids spontaneously combustible in air, comprising means to dissolve the solid out of contact with the air, means to deliver the liquid

out of contact with the air to a discharge point, and means to discharge the liquid.

10. A process for preparing solids spontaneously combustible in air for dispersion as liquids comprising, introducing the solid in a container filled with an inert fluid and displacing the fluid and introducing a solvent in the container and displacing the inert fluid.

1,785,745. SURGICAL SUCTION AND PRESSURE APPARATUS. CHARLES J. PILLING, Lansdowne, Pa., assignor to The George P. Pilling & Son Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 5, 1927. Serial No. 188,943. 6 Claims. (Cl. 248—65.)



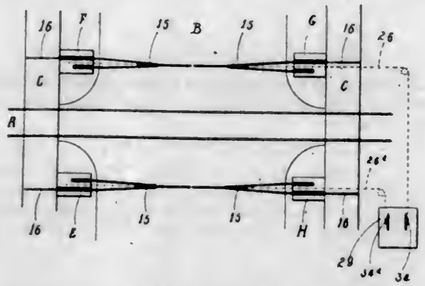
1. In a bottle holder and in combination, a base, a tubular post rising from the base, a rod slidable in the post and projecting above the same and having a downwardly turned upper end portion overhanging the base, a clamping member carried by the downwardly turned end portion of the rod and being provided with means for adjusting it vertically thereon, and means associated with the post for moving the rod and thereby moving the clamping member toward the base to clamp a bottle between them.

1,785,746. SURGICAL SUCTION AND PRESSURE APPARATUS. CHARLES J. PILLING, Lansdowne, Pa., assignor to The George P. Pilling & Son Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 5, 1927. Serial No. 188,944. 3 Claims. (Cl. 248—65.)



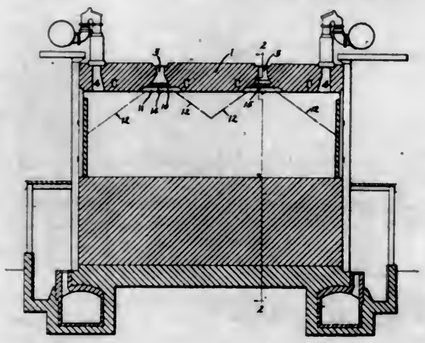
1. In a bottle holder and in combination, a base having a central post rising therefrom, a bottle receiving table supported by the post, an arm extending from the post, a standard rising from the arm, an arm extending from the standard, a clamping member movably supported by the last named arm, and a hand operated lever fulcrumed on the last named arm and provided with a cam constructed to move the clamping member toward the table to clamp a bottle between them when the lever is operated.

1,785,747. RAILROAD-CROSSING GATE. ALBERT EDWARD SPOONER, Renfrew, Ontario, Canada. Filed Apr. 3, 1930. Serial No. 441,273. 1 Claim. (Cl. 39—62.)



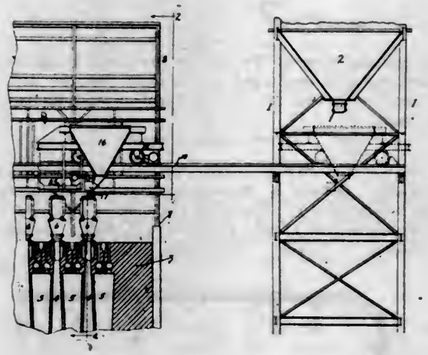
A railroad-crossing gate comprising a set of four housings, one positioned at each respective corner of the intersection between a roadway and a railroad bed; each of said housings comprising side walls, end walls and a base; each of said housings having a shaft suitably mounted in bearings supported in the side walls of said housing; an operating gear keyed on said shaft; counterbalance weights keyed on said shaft; road gates; the ends of the side bars of said road gates being connected to said counterbalance weights; a pedestrian gate, having a facer plate on its under side adjacent its inner end; a facer plate on the top of the end wall over which said pedestrian gate facer plate is adapted to move; the end of said pedestrian gate being hingedly connected to the end of one of the side bars of said road gate; a counterbalance weight suspended from the pin of said hinge; flexible connections between the respective gears in the housings on one side of the road with the gears in the respective housings on the opposite side of the road and said respective flexible connections being trained over separate operating means, in an operating tower, for operating said connections.

1,785,748. MEANS FOR REMOVAL OF SMOKE FROM COKE OVENS. JOSEPH VAN ACKEREN, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 27, 1925. Serial No. 40,067. 17 Claims. (Cl. 202—263.)



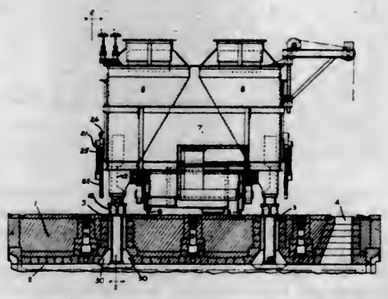
1. In coke ovens, or the like, in combination: a heat treating chamber having a wall provided with a feed opening for delivering to the chamber the material to be heat treated and having smoke or gas pockets on opposite sides of said opening that open into said chamber; and means bridging said opening for conveying smoke and gases from one pocket to the other past a stream of material entering through said feed opening; substantially as specified.

1,785,749. CHARGING VERTICAL RETORTS. JOSEPH VAN ACKEREN, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 27, 1925. Serial No. 40,068. 5 Claims. (Cl. 214—18.)



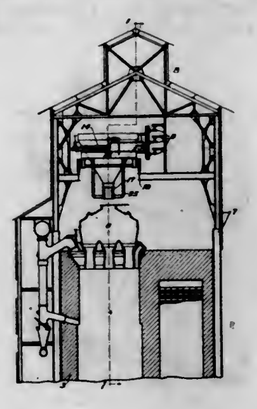
1. In a vertical retort battery, or the like, in combination: a larry car provided with a charging hopper adapted to discharge fuel into a retort chamber, said hopper being provided at its lower extremity with an offset discharge member provided wih a valve controlling the flow of the fuel, said member being adapted to be positioned over the feed opening in the retort chamber to provide a view of the charging operation unobstructed by the body of the hopper; and an operator's platform carried by the larry car adjacent said offset discharge member substantially as specified.

1,785,750. MEANS FOR CHARGING COKE OVENS. JOSEPH VAN ACKEREN, Pittsburgh Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 27, 1925. Serial No. 40,069. 14 Claims. (Cl. 202—263.)



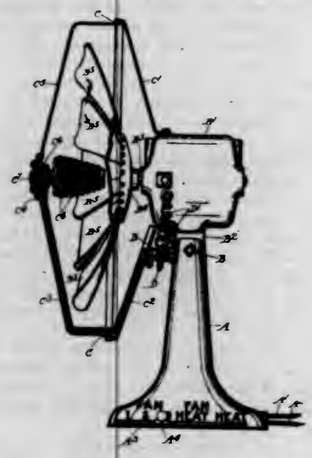
1. In combination with a coke oven battery having side-by-side horizontal coking chambers with intermediate heating walls, an oven-roof covering the tops of said coking chambers and heating walls and forming the tops of said chambers, and having a charging opening and a gas offtake opening for each of said coking chambers, both the charging opening and the gas offtake opening extending through said oven-roof from the top to the bottom thereof and said charging opening being intermediate the ends of the oven; a charging device mounted for movement on the top of said oven-roof into and out of charging position with respect to the charging opening of each of said chambers; a hopper carried by said charging device in spaced relation to said oven-roof; and a chute carried by said hopper and movable relative thereto so as to bridge the space between said hopper and said oven-roof for conveying fuel from said hopper to said coking chambers; said chute being adapted to be adjusted into each of said charging openings and being so proportioned and arranged relative to said oven-roof and the said charging openings as to extend down to the bottom of the oven-roof and be spaced from the roof structure forming said openings so as to provide a free space in each of said openings when therein for passage of gas from the top of each of said chambers on one side of said openings to the top of said chambers on the other side for offflow through their respective gas offtakes while said chute is feeding fuel from said hopper through said openings into their respective chambers.

1,785,751. APPARATUS AND METHOD OF CHARGING A RETORT. JOSEPH VAN ACKEREN, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Sept. 25, 1926. Serial No. 137,706. 5 Claims. (Cl. 202—36.)



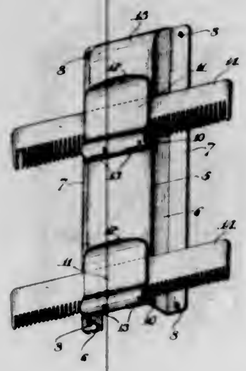
1. In a continuous vertical coking apparatus, the combination with a battery of continuous vertical coking retorts; covered coal-feeding magazines mounted in the top of and individual to the several coking chambers and adapted to feed coal continuously and gradually into the tops of said chambers; and a plurality of storage bins for coals of respectively different physical character mounted above said battery at one end thereof; of a charging larry-car adapted to receive coals from each of said bins and shiftable from beneath the same and into positions above and for connection with said magazines for severally recharging them and provided with weighing means for weighing the total quantity of coal received from said bins by said car and for determining by weight the portions of the total quantity delivered by said car to the respective magazines.

1,785,752. COMBINED AIR CIRCULATING FAN AND HEATER. ROYAL C. VILAS, Golf, Ill. Filed Aug. 16, 1930. Serial No. 475,819. 7 Claims. (Cl. 219—39.)



1. In a combined electric fan and heater, a plurality of fan blades assembled to form a reflector bowl, a separate heating unit, the heat from which is adapted to be reflected forwardly from such bowl, the blades overlapping to form when viewed from front a continuous reflecting surface.

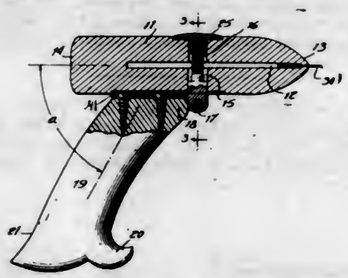
1,785,753. DEVICE FOR HOLDING COMBS. HARRY WEISSNER, Philadelphia, Pa. Filed Jan. 16, 1930. Serial No. 421,121. 3 Claims. (Cl. 211—120.)



1. A device for holding combs comprising a body member having base flanges for mounting the same at suitable locations, side walls extending outwardly therefrom, and an outer wall connected to the side walls, said outer wall having a plane outer surface parallel to the base flanges, pivot pins carried by the body member, comb retaining plates pivotally supported by said pins, and spring means adapted to impel the retaining plates toward the outer wall of the body member and to retain the combs between said retaining plates and said outer wall of the body member.

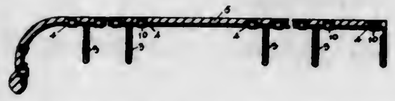
1,785,754. HAND SCRAPER. ERVIN WERNER, Brooklyn, N. Y. Filed May 10, 1930. Serial No. 451,297. 5 Claims. (Cl. 145—47.)

1. A hand scraper, in combination a blade, a head provided with a slot in one end for receiving a blade and on the other end a hand grip, a hole at right angles to the slot, a handle provided with a heel and a toe having a hingle plate fastened thereto, a stud hinged to the plate



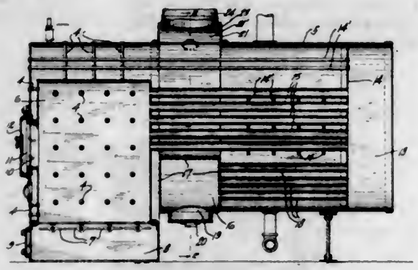
and passing through the hole in the head, a nut on the screw, the stud so hinged to the plate that the slot will be decreased when the heel of the handle contacts with the head.

1,785,755. CUSHION STEP TREAD FOR AUTOMOBILES. GEORGE E. WHITLOCK, Toledo, Ohio, assignor to The City Auto Stamping Company, Toledo, Ohio, a Corporation of Ohio. Filed June 3, 1929. Serial No. 367,847. 2 Claims. (Cl. 280—169.)



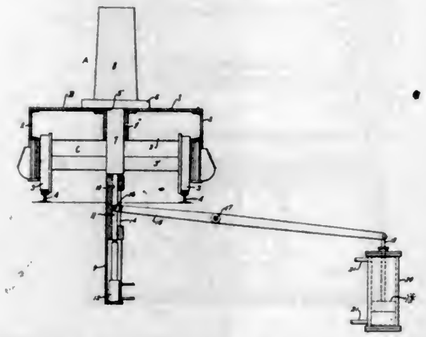
1. In a tread for sheet metal supporting members, a cushioning material in sheet form, a plurality of eyelets for securing the sheet material to the sheet metal, the eyelets having flanged portions embedded within the cushioning material and flanged portions extending through the sheet metal and engaging the sheet metal on the side opposite to that on which the sheet material is located, the openings of the eyelets substantially filled with the composition of the sheet material for interlocking the eyelets with the sheet material.

1,785,756. BOILER. HENRY L. WRATTEN, Racine, Wis. Filed May 28, 1928. Serial No. 281,177. 4 Claims. (Cl. 122—76.)



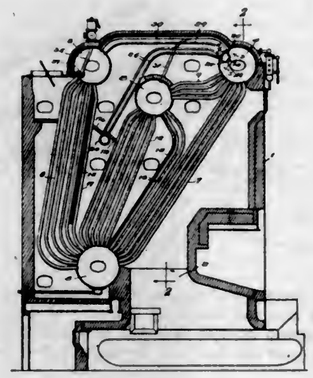
1. A boiler comprising an outer casing, a combustion chamber within one end of said casing, a chamber at the other end of the casing, a tubular member connecting the combustion chamber with the end chamber and extending through the boiler for conveying gases of combustion therethrough, an intermediately positioned chamber in a lower portion of the boiler, a tubular member connecting the end chamber with the intermediate chamber and extending through the boiler, and a discharge passageway surrounding a portion of the boiler and connecting with both sides of the intermediate chamber.

1,785,757. APPARATUS FOR JARRING INGOT MOLDS. LAFAYETTE YOUNG, Alton, Ill., assignor to Laclede Steel Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 19, 1929. Serial No. 356,471. 8 Claims. (Cl. 22—26.)



1. A jarring apparatus for an ingot mold mounted on a support, comprising means for elevating the ingot mold above its normal support, and means independent of said elevating means for jarring said mold while it is so elevated.

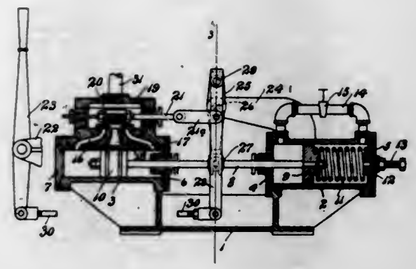
1,785,758. BOILER. RALEIGH J. ADAMS, Chicago, Ill. Filed June 3, 1927. Serial No. 196,257. 2 Claims. Cl. 122—302.)



1. In a boiler of the class described, a pair of drums, a plurality of baffles defining passes for gases of combustion, a header disposed in one of said passes, a chamber associated with one of said drums and sealed against communication therewith, tubes connecting said drums with each other, tubes connecting said chamber with the other of said drums than the one with which said chamber is associated, tubes connecting said chamber with said header, and means for withdrawing steam from said header.

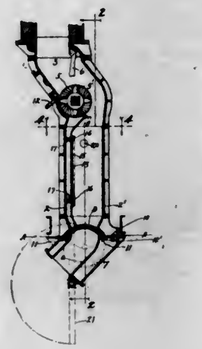
1,785,759. PRESSURE-CONTROL VALVE. FRED BAUMGARTNER, Muskegon, Mich. Filed June 18, 1928. Serial No. 286,101. 10 Claims. (Cl. 303—54.)

1. In a construction of the class described, a cylinder, a valve housing connecting with said cylinder, a piston in the cylinder, a valve in the valve housing, there being a port connecting said valve housing and one end of the cylinder with the valve adapted in one position to cover the port, a piston rod extending from said piston, a valve rod extending from said valve, spring means tending to move the piston toward the port end of the cylinder, a lever pivotally mounted between its ends on a fixed pivot and having connection at its lower end with said piston



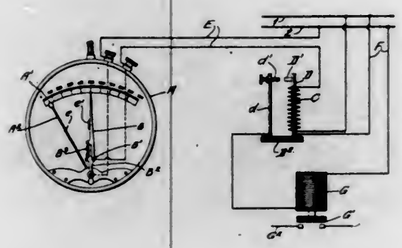
rod, a bar pivotally connected at its upper end to the upper end of said lever, means connecting the valve rod with said bar, and manually operable means for turning said bar about its point of pivotal connection to said lever to thereby change the position of said valve.

1,785,760. COKE RETORT WITH QUENCHING DEVICE AND METHOD FOR SAME. JOSEPH BECKER, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 16, 1925. Serial No. 9,509. 12 Claims. (Cl. 202—258.)



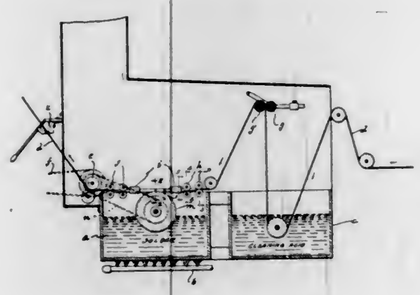
1. In an apparatus for discharging coke ovens, in combination: an extractor magazine having its upper portion offset from its lower portion; means for subjecting the hot coke as it descends from said upper portion to the action of a quenching liquid; means located below said upper portion for feeding the quenched coke across said magazine to and down the side of said lower portion remote from said upper portion, said means being pervious to the passage of the quenching liquid for separation of the spent liquid from the coke during the transverse passage; means located below said feeding means for collecting the separated spent liquid in the lower portion of the magazine that supports previously quenched coke and for maintaining the separated spent liquid out of contact with the previously quenched coke therein; and means for discharging the spent liquid from the magazine from the portion thereof that supports the previously quenched coke.

1,785,761. METER-CONTROLLED RELAY MECHANISM. RICHARD P. BROWN, Philadelphia, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 6, 1924. Serial No. 741,975. 2 Claims. (Cl. 236—68.)



1. The combination with a sensitive control meter including a deflecting member adapted to make rapid oscillations in response to variations in the quantity metered, of a relay comprising an electric heater and a bimetallic thermostatic actuating element energized by said heater, and means including a contact engaged by said member in one position of the latter for energizing said heater when said member is in said position.

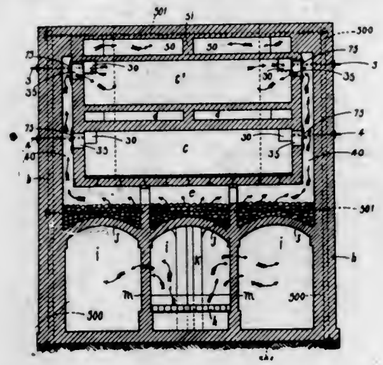
1,785,762. TINNING APPARATUS. HARRY W. BUNDY, Detroit, Mich., assignor, by mesne assignments, to Bundy Tubing Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 4, 1925. Serial No. 73,116. 5 Claims. (Cl. 91—12.2.)



1. An apparatus for the purpose specified, having in combination, means for moving a piece of strip stock, a tank for containing molten solder, a solder feed roll partly immersed in said solder and provided with a circumferential groove, means for rotating said roll whereby the solder is raised by being retained in the groove above the surface of the solder by capillary action, and means for guiding said strip stock to engage an edge of said strip stock in said circumferential groove at a point substantially above the surface of the solder in the tank for the purpose of forming a ribbon-like coating along the edge of the stock and which runs lengthwise of the stock.

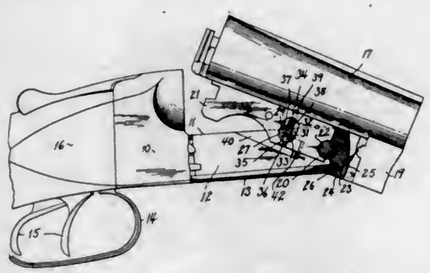
1,785,763. OVEN. ROMIAL BURT, Montreal, Quebec, Canada. Filed Nov. 12, 1928, Serial No. 318,744, and in Canada June 14, 1928. 2 Claims. (Cl. 107—55.)

1. An oven embodying outer walls, a combustion chamber, baking ovens disposed above said combustion chamber, a heat-radiation chamber between said combustion chamber and said ovens, there being an air space between said ovens and said outer walls, heat-storing and radiating



material in said heat radiation chamber, with an air space between said material and said ovens, in communication with the first-mentioned air space.

1,785,764. BARREL STOP FOR BREAKDOWN FIREARMS. FRANK F. BURTON, Mount Carmel, Conn., assignor to Winchester Repeating Arms Company, New Haven, Conn., a Corporation of Delaware. Filed Dec. 3, 1929. Serial No. 411,237. 11 Claims. (Cl. 42—40.)



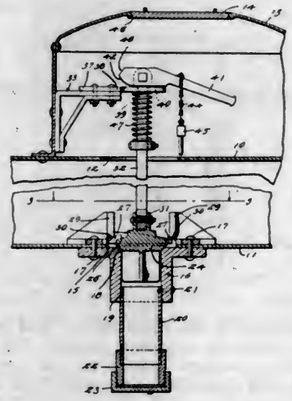
5. In a breakdown firearm, the combination with the frame-body and the barrel-lug thereof; of a floating barrel-stop carried by the said lug and coacting with the said frame-body to limit the breakdown movement.

1,785,765. MULTIPLE-BARREL FIREARM. FRANK F. BURTON, Mount Carmel, Conn., assignor to Winchester Repeating Arms Company, New Haven, Conn., a Corporation of Delaware. Filed Dec. 3, 1929. Serial No. 411,238. 8 Claims. (Cl. 42—40.)



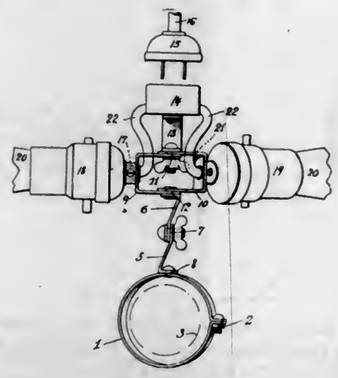
1. A multiple-barrel firearm having a pair of substantially-parallel barrels, each of which is formed upon its inner face with a lump secured to the complementary lump of the other barrel; and a top-rib lying between the said barrels and embracing the upper ends of the said lumps thereof.

1,785,766. OUTLET CONSTRUCTION. ROBERT M. CALLAWAY, Waco, Tex. Filed Sept. 29, 1928. Serial No. 309,237. 5 Claims. (Cl. 137—21.)



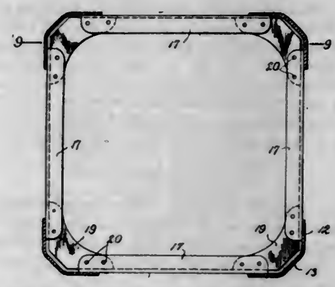
1. In an outlet construction for tanks, tank cars and the like, a tank having aligned openings in its upper and lower walls, an outlet fitting secured to the lower wall about the edges of the opening and including a valve seat, a valve coacting with said seat, said valve having oppositely arranged cam wedges at the opposite sides thereof, adjacent edges of said wedges being spaced to provide a notch therebetween and brackets secured upon the interior of the lower wall of the tank at opposite sides of the seat and with which said notches are alignable, the lower portions of said brackets being cut-away to form downwardly facing shoulders beneath which said cam wedges may engage.

1,785,767. ELECTRIC-LAMP BRACKET. PAUL CESAR, New York, N. Y. Filed June 4, 1929. Serial No. 368,309. 4 Claims. (Cl. 240—52.)



1. A lamp bracket comprising a main clamping ring, two pivotally connected opposed horizontally disposed symmetrical U-shaped lamp socket supports, means for supporting the latter on said ring to permit horizontal and vertical adjustment of said supports with respect to the ring, a push plug socket carried by said supports in rotatable relation thereto, means for supporting lamp sockets on said support and cables passing from said lamp sockets to the said push plug socket in fixed relation to the said supports.

1,785,768. STOOL. JAMES H. COATES, RALPH S. HOWE, and WILLIAM F. COSTELLO, New Britain, Conn., assignors to The New Britain Machine Company, New Britain, Conn., a Corporation of Connecticut. Filed Jan. 16, 1929. Serial No. 332,838. 2 Claims. (Cl. 155—194.)



2. A sheet metal stool having a seat and at least three legs each leg being united at its upper end to the seat by welding, the legs diverging downwardly, and means connecting all of the legs intermediate their upper and lower ends, such connecting means comprising vertical web portions, each web portion being united at its opposite ends respectively by welding to a pair of adjacent legs and being deeper at its ends than at its middle, the connecting means also comprising a continuous uninterrupted horizontal portion integrally united to each of the vertical web portions.

1,785,769. PROCESS OF MAKING AMINO-AZO COMPOUNDS. PAUL DIETERLE, Buffalo, N. Y., assignor to National Aniline & Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 2, 1927. Serial No. 230,696. 12 Claims. (Cl. 260—96.)

1. In the process of making an aromatic amino-azo compound, the improvement which comprises coupling an aromatic diazo compound with an aromatic amino compound in the presence of water and of an organic solvent immiscible in water, one of said coupling components being relatively insoluble in water but soluble in said organic solvent.

1,785,770. AERIAL TOY. HENRY B. FABER, New York, and LOUIS L. DRIGGS, Jr., New Rochelle, N. Y. Filed Dec. 10, 1928. Serial No. 325,018. 8 Claims. (Cl. 42—55.)

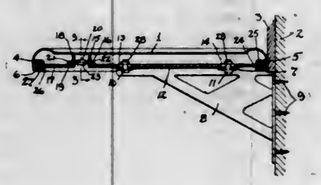


1. In a device of the class described, a base, a tube secured to the base, an explosive chamber in said tube, a

fuse running to said explosive chamber, an explosive in said chamber, a projectile closing the upper end of said chamber, said projectile having a time fuse, an expelling charge chamber, an explosive in said last mentioned chamber, means for transmitting a thrust from the bottom to the top of the chamber, a rigid means mounted on the top of said second explosive chamber, a parachute wrapped about said means and means for securing the parachute to the means, whereby the thrusts due to the various explosions will in no way injure the parachute nor interfere with its operation when functioning.

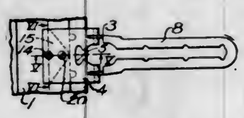
4. In a device of the class described, a time fuse composed of two concentric eyelets and a slow burning charge, the inner of said eyelets having a perforated dome.

1,785,771. DRAIN BOARD. FREDERICK GEIGER, Cleveland, Ohio, assignor to The Enamel Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 4, 1928. Serial No. 244,415. 7 Claims. (Cl. 141—11.)



1. The combination with a drain board, of supporting means therefor comprising a relatively long strip formed with a plurality of longitudinally extending slots therethrough, a bracket, means adapted to coact with said bracket and to pass through said slots to secure said strip to said bracket, and a second relatively short strip adjustably secured to said first strip, the free ends of said strips engaging said drain board to support the same.

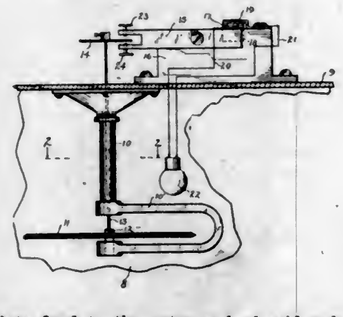
1,785,772. HASP. RALPH M. HALLAM and WALTER E. AMBERG, Chicago, Ill.; said Amberg assignor to said Hallam. Filed Apr. 30, 1927. Serial No. 187,726. 3 Claims. (Cl. 292—268.)



1. In a device of the character described, a hasp comprising a base plate, a securing plate having screw holes therein and pivoted to the inner face of said base plate, said base plate having an aperture therein, said aperture being in alignment with one of said screw holes for permitting securing means to project therethrough into a support to enable both of said plates to be firmly secured to the support when said base plate conceals said securing plate.

1,785,773. ELECTRIC-POWER CONTROL. IRA C. HANSON, Racine, Wis. Filed Apr. 15, 1926. Serial No. 102,236. 1 Claim. (Cl. 200—140.)

A thermostatic circuit controller, comprising a support of insulating material, a fixed contact member carried thereby, a lever pivotally mounted on said support and having a bifurcated outer end portion, adjustable screws extending through said bifurcated portion, a contact member carried by the inner end portion of said lever and engageable with said fixed contact member, a tubular bracket, a thermostatic disc carried by said bracket, a rod movably mounted within said bracket and projecting from the ends thereof, one end portion of said rod being supported by said thermostatic disc to be moved thereby,

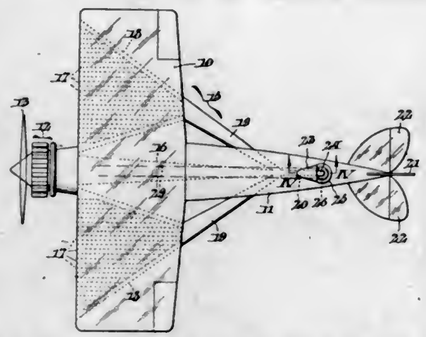


and a plate fixed to the outer end of said rod and arranged for restricted movement between the adjustable screws in the bifurcated portion of said lever to move the lever in both directions upon contact with the screws.

1,785,774. PLASTIC HEAT-TREATED ALUMINUM ALLOY. NOAK VICTOR HYBINETTE, Wilmington, Del., assignor to Hybinette Patents Corporation, Jackson, Mich., a Corporation of Michigan. Filed May 18, 1929. Serial No. 364,330. 7 Claims. (Cl. 148—32.)

6. A highly ductile, fully heat-treated aluminum alloy commercially free from inter-crystalline corrosion, composed of from .50% to 1.0% zinc, .50% to 1.0% magnesium, .05% to .15% cadmium, and copper, nickel, cobalt, manganese, chromium, tungsten and molybdenum in quantities not exceeding .25% of each and in total not exceeding .50%.

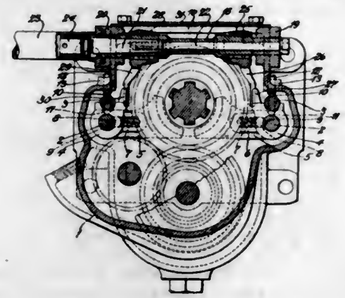
1,785,775. AIRCRAFT. CARL H. IWANOWITZ, Souderton, Pa. Filed Mar. 5, 1929. Serial No. 344,119. 13 Claims. (Cl. 244—18.)



5. In aircraft, tubulose inductor means embodied in and open along the frontal edge of a wing plane operative, under head pressure incident to flight, to gather in air and at the same time to increase its velocity; and means whereby the high velocity air flowing through said tubulose means is utilized, by control of directional discharge, to assist flight of the craft.

1,785,776. SPEED-CHANGING MECHANISM. ELMER G. KESLING, Bloomfield, Mo. Filed Sept. 27, 1928. Serial No. 308,702. 13 Claims. (Cl. 74—39.)

1. In speed changing mechanism, a gear case, gear shifting devices, a tubular element supporting parts of said devices, a shaft for imparting rocking and longitudinal movements to said tubular element, and a clamping



device connected to said shaft and having rotative adjustable connection with said tubular element securing said shaft in rigid connection with said tubular element.

1,785,777. PROCESS FOR PRODUCING VITREOUS ENAMELS. CHARLES J. KINZIE, Niagara Falls, N. Y., assignor to The Titanium Alloy Manufacturing Company, New York, N. Y., a Corporation of Maine. Filed July 31, 1928. Serial No. 296,637. 11 Claims. (Cl. 106—36.2.)

1. In the preparation of a slip for vitreous enamels and glazes from mill liquor containing alkaline substances, the step which consists in treating said liquor with a salt of one of the metallic elements in Group IV, Subgroup A. of Mendelejeff's classification having a molecular weight below 100 to neutralize said alkaline substances and produce a hydrate precipitate of the element introduced as said salt.

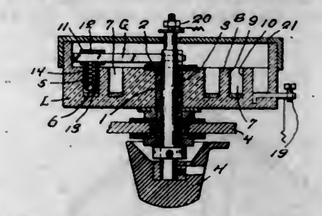
1,785,778. POCKETED WELDING, BRAZING, AND HARD-SOLDERING ROD. OTTMAR M. KREMBS, Glencoe, Ill. Filed Mar. 11, 1929. Serial No. 346,177. 4 Claims. (Cl. 219—8.)



1. A brazing, welding, or hard-soldering rod consisting of a metal rod having pockets formed in its peripheral surface which extend angularly into the rod so that a predetermined amount of flux or metal in powdered form will be retained in the pockets.

1,785,779. VARIABLE RESISTANCE. PHILIP LAUTER, New York, N. Y. Filed Nov. 10, 1928. Serial No. 318,562. 1 Claim. (Cl. 201—56.)

In a variable resistance device, in combination, a carrying base having an aperture therethrough, a shaft projecting through said aperture, an arm extending radially from said shaft adapted to be moved by said shaft rotatably about the surface of said base, said base having a groove in its surface extending in a spiral direction about said shaft, a length of resistance material arranged at the bottom of said groove extending longitudinally along the length of the groove and thus in a spiral direction about said shaft, a contact finger carried by said arm non-rotatably mounted thereon but slidably movable longitudinally thereof toward and away from the shaft, said contact finger consisting of a hollow tubular member arranged to extend laterally from the arm lengthwise into the groove so that the outer wall surfaces of said member have co-operative engagement with the walls of the groove to cause said member to follow the groove and slide along the arm during movement of the arm by the shaft, and a separate spring pressed contact forming element arranged in the hollow of said member in electrical connection therewith and projecting therefrom into engagement with said resistance material.

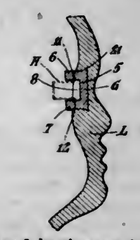


1,785,780. INDEX TAB AND METHOD. RALPH A. MAISH, Framingham, Mass., assignor to Dennison Manufacturing Company, Framingham, Mass., a Corporation of Massachusetts. Filed Aug. 23, 1928. Serial No. 301,641. 4 Claims. (Cl. 40—28.)



1. An index tab comprising a strip of flexible material gummed on one side and foldable into the shape of a U with its front and rear legs lying in closely spaced relationship and with the gummed surface inside, and a band of writing material held by the gum on the rear leg near the fold line, the front leg having a portion through which said band is visible and the margins of both legs extending beyond said band when the strip is folded so that the legs may be held by the gum to the opposite sides of a guide card or the like.

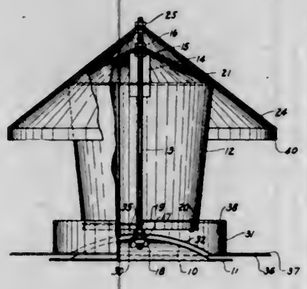
1,785,781. DOLL-HEAD STRUCTURE. SAMUEL MARCUS, Brooklyn, N. Y., assignor to Markon Manufacturing Co., Inc., New York, N. Y., a Corporation of New York. Filed Nov. 15, 1927. Serial No. 238,365. 1 Claim. (Cl. 46—40.)



A molded doll head having an insert molded as a part thereof serving as anchoring means for a separate device,

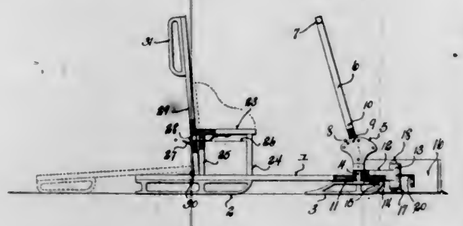
said insert having a flaring portion embedded within the material of the doll head to prevent its separation from the doll head, and said insert being of a different material from the material of the doll head adapting it to receive attaching prongs of said separate device thrust thereinto.

1,785,782. FEEDER. GEORGE T. MARKEY and JOHN B. OLSON, Fort Atkinson, Wis., assignors to James Manufacturing Company, Fort Atkinson, Wis. Filed Dec. 2, 1926. Serial No. 152,088. 15 Claims. (Cl. 119—53.)



1. The combination with a storage chamber having an opening in its bottom, a circular pan underneath said opening and having a diameter greater than the bottom portion of the storage chamber and a spherically rounded support for the central portion of the pan adapted to allow it to tilt in any direction and to hold the pan in feed regulating relation to the storage chamber.

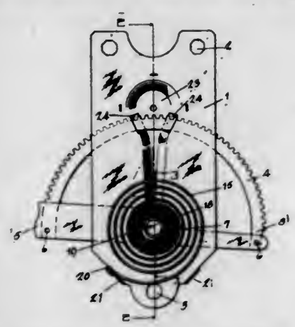
1,785,783. TOY VEHICLE. JULIUS MOHR, Milwaukee, Wis. Filed Mar. 8, 1928. Serial No. 260,227. 1 Claim. (Cl. 280—16.)



A sled comprising a body portion having runners, a seat carried by the body portion, an extension board hinged to the body portion rearwardly of said seat, latching means carried by said seat for temporarily retaining said extension board in upright position, said extension board being adapted to rock downwardly and to project rearwardly behind said seat, said extension board being provided with a runner.

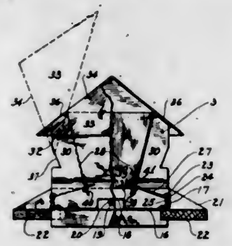
1,785,784. WINDOW REGULATOR. HUBERT A. MYERS, Toledo, Ohio, assignor to The Myers Regulator Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 10, 1927. Serial No. 160,080. 8 Claims. (Cl. 268—126.)

3. In a window regulator, an arm for raising and lowering the window, a supporting member, a pivot member connected to the arm and extending through the supporting member, a convolute spring having one end connected to the pivot member and the other end connected to the supporting member for securing the pivot member in



its pivotal relation to the supporting member, an arcuate strip having teeth formed along one edge thereof and secured at its ends to the arm.

1,785,785. FEEDING APPARATUS. JOHN B. OLSON and GEORGE T. MARKEY, Fort Atkinson, Wis., assignors to James Manufacturing Company, Fort Atkinson, Wis. Filed Dec. 16, 1926. Serial No. 155,134. 3 Claims. (Cl. 119—55.)



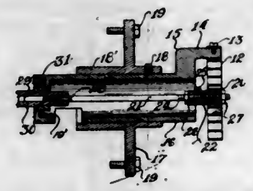
1. A feeding apparatus comprising a storage chamber having a bottom outlet and supporting end walls, and a feeding pan underneath the outlet of the storage chamber and tiltingly supported by said end walls in feed controlling relation to said outlet, said feeding pan being provided with an upwardly extending rib having a flat table-like surface along the longitudinal center line of its bottom portion and in a supporting relation to the major portion of material tending to drop to the pan from the hopper and also having feeding fingers extending from the side walls of the pan through apertures in the storage chamber adjacent to its outlet, whereby material in the storage chamber is caused to pass through the outlet when the pan is tilted and is pushed laterally by said rib.

1,785,786. METHOD OF ROLLING AND ANNEALING SHEET METAL. ALEXANDER PATERSON, Buffalo, N. Y. Filed Mar. 26, 1928, Serial No. 264,960. Renewed May 14, 1930. 3 Claims. (Cl. 148—12.)

1. The method of treating sheet metal consisting in reducing the metal while at a temperature within the "blue short" zone and then annealing it at a temperature within the growth range.

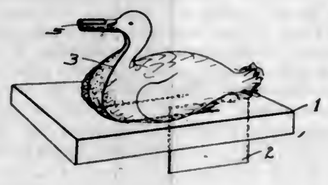
1,785,787. THERMOSTATICALLY-OPERATED DEVICE. CHARLES L. RAYFIELD, Chicago, Ill., assignor to Rayfield Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 15, 1927. Serial No. 219,651. 5 Claims. (Cl. 297—16.)

1. In a thermostatically operated device, the combination of a tubular member, a rotary member extending through said tubular member, a thermostat coil having its outer end secured to said tubular member and its inner end secured to said rotary member, a support for said tubular member comprising a sleeve in which said



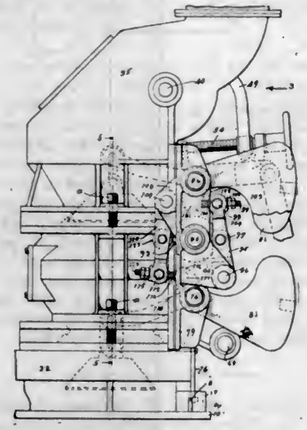
tubular member is axially shiftable, said tubular member having an air inlet for the entrance of air to circulate through said member and said thermostat coil, said sleeve adjusting the area of said air inlet when said tubular member is shifted in said sleeve.

1,785,788. DECOY DUCK. WILFRED ROBINSON, Drawbridge, Calif. Filed Dec. 11, 1928. Serial No. 325,291. 3 Claims. (Cl. 43—3.)



1. A decoy support comprising a float, a single piece of wire bent to provide a two wire support for the breast, neck, and bill of a decoy bird, and means to secure the wire on said float.

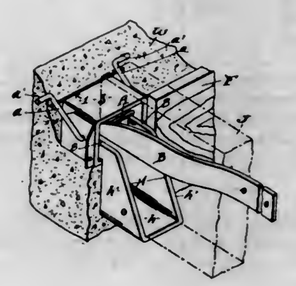
1,785,789. FEED MECHANISM FOR GAS PRODUCERS. JOHN F. ROGERS, Cleveland Heights, Ohio, assignor to The Wellman Engineering Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 1, 1927. Serial No. 209,769. 18 Claims. (Cl. 214—36.)



1. In apparatus for feeding material, a valve in the line of feed, mechanism for operating said valve comprising a cam and a cam follower operatively connected with said valve, a counter-balance weight, and a second cam interconnected with said first cam and mounted to move in timed relation therewith, said second cam being operatively connected with said counter-balance weight and timed to move said counter-balance weight from high to low position and back again while the said follower moves up the ascent side of said cam and down the descent side thereof.

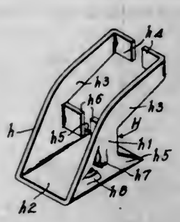
18. In a fuel feed for gas producers, a base and a casing spaced apart vertically, a bottom member for the casing interposed between the base and the casing and normally supporting the casing, and screws associated with said base and casing outside of said bottom member for raising and supporting the casing independently of the bottom member, whereby the bottom member may be slid out of position for repair or replacement.

1,785,790. COMBINATION JOIST HANGER AND TIE. FRANKLIN N. ROPP, Hollywood, Calif. Filed Aug. 14, 1928. Serial No. 299,468. 5 Claims. (Cl. 72—108.)



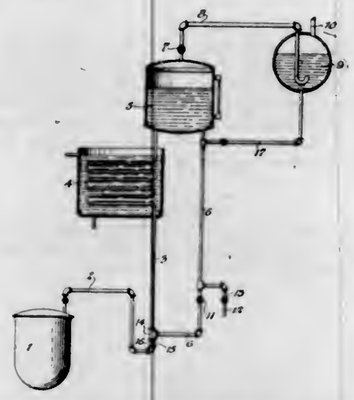
3. A combination joist hanger and tie comprising a socket member adapted to be anchored in a wall, a hanger detachably connected therewith, a joist carried in said hanger, and a bar attached to said joist and having a portion extending into and engaging said anchor so as to prevent the movement of the joist relative to said wall.

1,785,791. COMBINATION JOIST HANGER AND TIE. FRANKLIN N. ROPP, Hollywood, Calif. Filed Dec. 17, 1928. Serial No. 326,560. 8 Claims. (Cl. 72—108.)



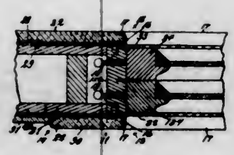
6. A device of the character described comprising a unitary hanger having portions extending into and imbedded in a wall, and a stirrup externally of said wall, a joist carried in said stirrup, a tie bar attached to said joist, and means for irremovably connecting said tie bar with an exposed side of said stirrup when the tie bar is attached to said joist.

1,785,792. GAS-TREATING APPARATUS. WILLIAM L. SPALDING, Buffalo, N. Y., assignor to National Aniline & Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 5, 1925. Serial No. 60,442. 8 Claims. (Cl. 261—76.)



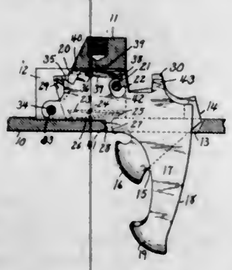
1. Gas treating apparatus comprising in combination a system for circulating liquid in a cyclic path, means for admitting hot gases into an upwardly circulating portion of liquid in said system to promote circulation, and means for cooling the upper part of said portion.

1,785,793. DOOR AND WINDOW CASING. JACK C. STARRIETT, Gallup, N. Mex. Filed Jan. 27, 1930. Serial No. 423,768. 8 Claims. (Cl. 72—98.)



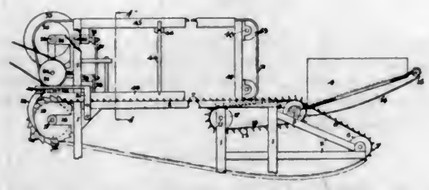
1. A window casing including a frame having a groove therein, an inner mold plate secured to said frame to form the inner wall of a mold and having a flange secured in said groove, and an outer mold plate secured to said frame to form the outer wall of a mold that can be filled with plastic material to form a window casing.

1,785,794. DOUBLE-BARRELED FIREARM. LOUIS STIENNON, New Haven, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation of Delaware. Filed Apr. 10, 1929. Serial No. 354,089. 5 Claims. (Cl. 42—41.)



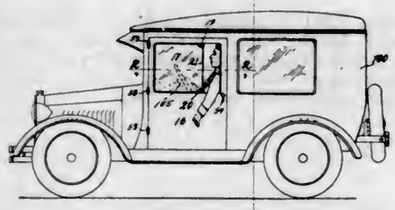
1. A double-barreled firearm having two triggers, each controlling the firing-mechanism of one of the barrels thereof and each provided with a finger-piece; and guard-means comprising a pair of directly co-acting guard-abutments respectively carried by the said triggers in position to be inter-engaged one with the other by a relatively-slight initial manual movement of either one of the said triggers to automatically and positively restrain the other trigger against movement into its firing position.

1,785,795. ASPARAGUS-CUTTING MACHINE. LOUIS D. STOPPEL, Isleton, Calif. Filed Apr. 29, 1927. Serial No. 187,543. 6 Claims. (Cl. 146—81.)



1. An asparagus cutting machine comprising, a plurality of stationary cutting blades, a plurality of endless chains arranged for conveying asparagus stems toward the blades, means for aligning the tips of the asparagus stems as the asparagus stems are being conveyed toward the cutting blades comprising a guide arranged adjacent the path of travel of the asparagus and mounted for movement toward and from the same, means for intermittently so moving said guide to strike the extreme ends of the asparagus, and means for lifting the asparagus stems from the chains and bringing them into contact with the blades.

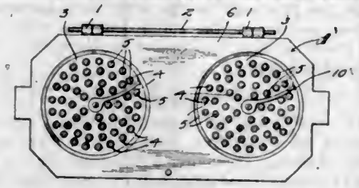
1,785,796. SIGNAL WINDOW FOR AUTOMOBILE DOORS. CYRUS HENRY WALLACE, San Gabriel, Calif. Filed June 10, 1929. Serial No. 369,889. 5 Claims. (Cl. 296—44.)



1. An improvement in a window including a frame having upper and lower channel irons connected by a vertically arranged channel bar so that one side of the frame is open, a main transparent pane secured in the channels of said irons and bar arranged to leave an elongated narrow space at the open side of said frame, hinges secured to said upper and lower channel irons, an elongated transparent panel secured to said hinges within the frame and arranged vertically so as to normally fill the narrow space in said frame and so it can be moved in an arc, and stops connected with said hinges for holding said panel in a number of prearranged positions in said arc for the purpose specified.

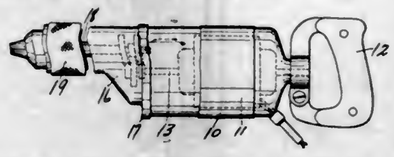
1,785,797. MOLD. HUGH W. WATSON, Seattle, Wash., assignor, by direct and mesne assignments, to Perwatco Manufacturing Co., Crete, Nebr., a Corporation of Nebraska. Filed June 9, 1928. Serial No. 284,105. 3 Claims. (Cl. 107—19.)

1. A mold of the class described comprising two sections adapted to be disposed one over the other, one of said sections being provided with a molding recess, the bottom wall of said recess having openings therethrough, the second section having upstanding pins, said pins extending through the openings in the first section and



through the molding recess when said sections are arranged one upon the other, a knife disposed over the bottom wall of the recess, means for rotating said knife, and means at the opposite side of the section movable with the knife to indicate the position of the knife.

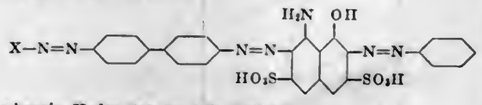
1,785,798. MOTOR-DRIVEN TOOL. THEOBALD C. WEISS, South Bend, Ind., assignor to Electric Sprayit Company, South Bend, Ind. Filed Apr. 20, 1929. Serial No. 356,868. 4 Claims. (Cl. 74—7.)



1. In a motor driven tool, the combination with a motor casing, a motor mounted in said casing, of a gear housing carried by the motor casing, a shaft journaled in said housing, and a gear train disposed in said housing and driven by said motor, one gear of said train being mounted on said shaft for rotation independent of and in the same direction as said shaft.

1,785,799. AZO COLORING MATTER. BYRON L. WEST, Hamburg, N. Y., assignor to National Aniline & Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 24, 1927. Serial No. 228,498. 11 Claims. (Cl. 260—78.)

1. The process of producing an azo coloring matter, which comprises subjecting to hydrolytic decomposition a diazo-disazo body having in the free state the following probable formula:



wherein X denotes an acid radical.

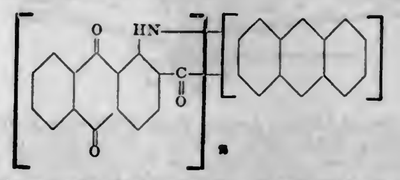
1,785,800. DOLL. ROSE O'NEILL WILSON and CALLISTA O'NEILL SCHULER, Saugatuck, Conn. Filed Sept. 20, 1927. Serial No. 220,713. 7 Claims. (Cl. 46—40.)



1. A cloth doll having a printed piece forming the face and having two pieces forming the remainder of the head with a vertical seam along the back, each of said two pieces having a dart in the lower edge at one side with a pucker at the top to form the ears, the front edges of said two pieces being stitched around the piece forming the face.

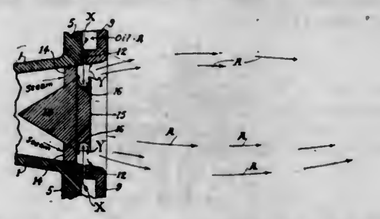
1,785,801. NEW BROWN VAT DYESTUFFS OF THE ANTHRAQUINONE SERIES. WERNER ZERWECK, Frankfort-on-the-Main-Fechenheim, Germany, assignor to General Aniline Works Inc., New York, N. Y., a Corporation of Delaware. Filed Apr. 3, 1929, Serial No. 352,316, and in Germany Apr. 2, 1928. 2 Claims. (Cl. 260—37.)

1. As new compounds vat dyestuffs corresponding probably to the general formula:



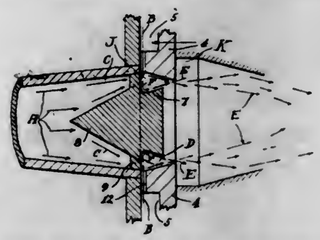
wherein n means the number 1 or 2 and the anthracene as well as the anthraquinone nuclei may contain further substituents, which dyestuffs are when dry brownish powders soluble in concentrated sulfuric acid with a brownish color, dyeing the vegetable fiber from the hydrosulfite vat bright brown shades of an excellent fastness especially to light and exposure.

1,785,802. ATOMIZING JET NOZZLE. HENRY ADAMS, Plainfield, N. J. Filed Nov. 16, 1923. Serial No. 675,150. 17 Claims. (Cl. 158—77.)



1. In combination, a duct gradually tapering toward its inlet end; an abutment member in the discharge end of the duct comprising a conical portion pointing toward the inlet end and peripherally spaced lugs around the periphery of the conical portion extending to the wall of the duct to provide atomizing fluid passages; said member being provided forward of said lugs with an annular groove therearound and means for injecting fuel into said groove.

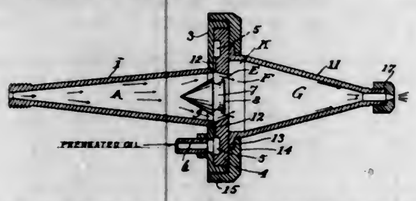
1,785,803. ATOMIZING MIXING NOZZLE. HENRY ADAMS, Plainfield, N. J. Filed Dec. 6, 1923. Serial No. 678,977. 12 Claims. (Cl. 158—77.)



12. An apparatus comprising means forming high velocity streams of atomizing fluid; structure means having

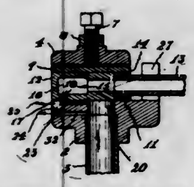
an annular groove thereabout having a rear face transverse to the streams, a forwardly flaring forward face and an intermediate inwardly curved abutment face merging into the forward and rear faces; means for directing fuel inwardly along the plane of said rear face, said forward face directing fuel into said streams.

1,785,804. PROCESS FOR OIL BURNING. HENRY ADAMS, Plainfield, N. J. Filed June 17, 1924. Serial No. 720,612. 8 Claims. (Cl. 158—117.5.)



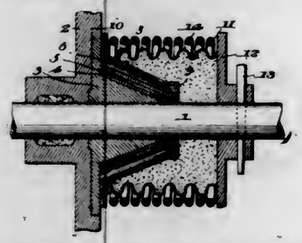
1. The oil burning process which consists in gradually expanding steam under pressure, compressing the expanding steam, wire-drawing the oil, atomizing the wire-drawn oil, causing the atomized wire-drawn oil to travel in a path which intersects the path of the steam discharged after said compression, compressing the oil and steam at the intersection of their paths for further atomizing the oil, mixing the oil and steam, expanding said mixture for thoroughly mixing the oil and steam, gradually compressing the thoroughly mixed oil and steam, and discharging and burning the mixture.

1,785,805. METHOD OF AND APPARATUS FOR ATOMIZING FUEL OIL. HENRY ADAMS, Plainfield, N. J. Filed Jan. 23, 1928. Serial No. 248,854. 25 Claims. (Cl. 299—140.)



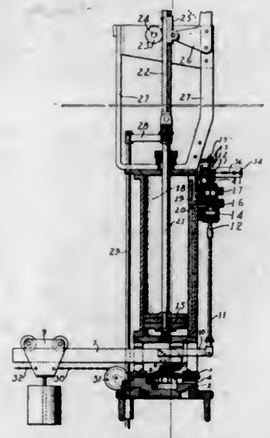
8. A process comprising, projecting in a common direction high pressure fluid streams substantially limited to, and laterally extending in, a common plane slightly expanding the fluid; forming jets of fuel; atomizing the fuel of the jets and directing it into said pressure fluid along a line in said plane transverse to the path of the fluid; and compressing the fluid along said line.

1,785,806. SEAL FOR SHAFT BEARINGS. ALBEON BEASLEY, Evansville, Ind., assignor of one-half to William Snirley Jaco, Vanderburg County, Ind.; Russell Coffman administrator of said William Shirley Jaco, deceased. Filed Aug. 7, 1928. Serial No. 298,027. 4 Claims. (Cl. 286—11.)



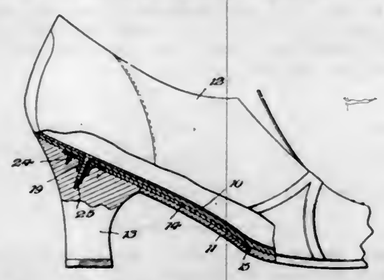
1. In a seal for shaft bearings, the combination with a shaft, of a bearing cone, a bearing thimble into which the bearing cone projects said thimble and cone being relatively rotatable, a housing connected to said thimble, a ring to which the housing is connected, an expansible and contractible shell connected to the ring, a collar connected to the shell and to the shaft, and an expansible coil spring bearing on the collar and the ring and encircling the said shell, and means for relatively rotating said thimble and cone.

1,785,807. APPARATUS FOR PRESSURE CONTROL. THEODORE H. CARPENTER, Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa., a Corporation of Texas. Filed Aug. 3, 1927. Serial No. 210,332. 3 Claims. (Cl. 137—139.)



1. In a fluid operated regulating device controlled by a pilot valve, a stem for the pilot valve, and a Bourdon element communicating with a pulsating pressure and means arranged to translate its motion into rotative oscillations of the stem of the pilot valve.

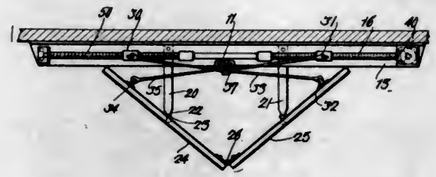
1,785,808. HEEL-ATTACHING DEVICE. LEONARDO CIPOLLINA, Gulfport, Miss. Filed Aug. 10, 1929. Serial No. 385,007. 2 Claims. (Cl. 36—76.)



1. In combination, a shoe, a heel, a metal shank having a portion thereof embedded in the sole of the shoe and extending beneath the heel portion thereof, an enlargement formed on said shank, said heel having a recess formed to receive said enlargement and a communicating groove to receive the shank, and attaching elements engaged through said enlargement with the material of the heel body.

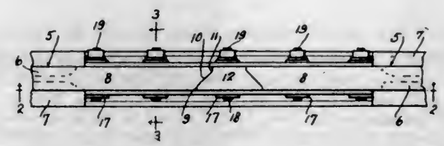
1,785,809. COMBINATION SIGN AND AWNING. HARRY ROBERT DAVIS, Nashua, N. H. Filed Aug. 20, 1930. Serial No. 476,690. 6 Claims. (Cl. 156—42.)

4. A combined sign and awning comprising two hingedly connected relatively flat members each of which is formed with a curved guide slot in its rear face, a single supporting arm for each member, a head upon each arm, each head operating in the guide slot of its respective member, and means for moving said members about their



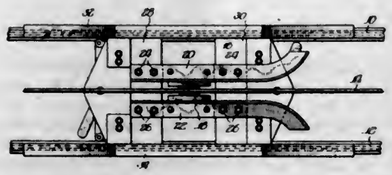
respective supporting arm and cause said members to position themselves in the same angular plane or in a vertical plane at right angles to each other as and for the purpose set forth.

1,785,810. RAILROAD-TRACK JOINT. EDMOND DE GRACE, Detroit, Mich. Filed Apr. 15, 1930. Serial No. 444,474. 2 Claims. (Cl. 238—205.)



1. In a railroad track joint, a pair of rail sections disposed in end to end relationship and having a pair of spaced adjacent ends, said ends being of equal transverse thickness throughout their height and having their terminals beveled laterally so that faces formed by the terminals converge toward each other in one direction, a rail chair in which said ends are positioned, and a beveled insert block of equal thickness with said ends and positioned between the ends with faces abutting the terminal spaces of the said ends.

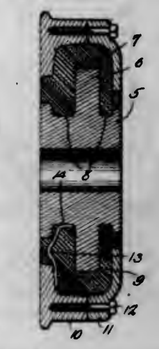
1,785,811. CABLE-RAISING DEVICE. CHARLES H. FUGLE, CHARLES H. OSTENBERG, ALBERT W. MAGLEIN, JOSEPH M. TRUDO, and ANDY NEWTON, Duluth, Minn. Filed Aug. 28, 1929. Serial No. 388,959. 6 Claims. (Cl. 104—197.)



1. A device for use in raising a cable to a point where it can be grasped by a cable car, comprising, in combination, a frame adapted to rest upon the track rails over which the car runs, a cable engaging instrument mounted on said frame, and means for releasably affixing the frame to the track rails.

1,785,812. WHEEL FOR RAILWAY ROLLING STOCK. WILLIAM GRIBBEN, Detroit, Mich. Filed Apr. 8, 1929. Serial No. 353,644. 3 Claims. (Cl. 295—11.)

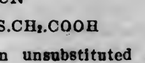
1. A wheel for railway rolling stock, comprising an inner section and an outer section, the inner section having a circumferential flange, the outer section embodying spaced flanges, said outer section being fitted over the



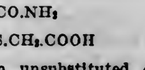
inner section, and a cushioning member contacting with the sides and edge of the flange of the inner section, and engaging the flanges of the outer section.

1,785,813. PROCESS OF PREPARING HYDROXYTHIONAPHTHENES. ERWIN HOFFA and FRITZ MÜLLER, Frankfort-on-the-Main-Hochst, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Aug. 2, 1928, Serial No. 297,102, and in Germany Aug. 17, 1927. 4 Claims. (Cl. 260—53.)

1. The process of preparing hydroxythionaphthenes which consists in saponifying a cyanoaryl-ortho-thioglycollic acid of the formula:

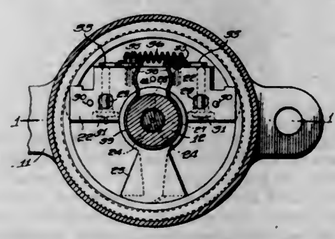


wherein R stands for an unsubstituted or substituted aromatic hydrocarbon residue, by the action of hydrogen peroxide in an alkaline solution so as to form the corresponding arylcarboxylic acid-amide-ortho-thioglycollic acid of the formula:



wherein R stands for an unsubstituted or substituted aromatic residue, and transforming the latter by the further action of an alkali into the hydroxythionaphthene.

1,785,814. VEHICLE SHOCK ABSORBER. ENOS H. KREIDER, Lancaster, Pa. Filed Feb. 5, 1929. Serial No. 337,641. 11 Claims. (Cl. 188—89.)



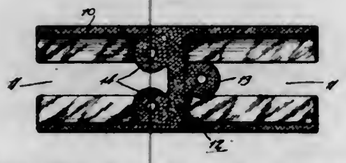
1. In a vehicle shock-absorber of the hydraulic type embodying a vibratory valveless piston and pressure chambers, a free-center mechanism, and means whereby after a change in the load on the vehicle-springs the free-center devices will by the vibration of the vehicle be automatically restored to normal function.

1,785,815. EQUIPMENT OR ATTACHMENT TO EXPEDITE HANDLING OF CARDS IN LARGE LOTS FOR INSPECTION OF SAME. DANIEL W. B. KURTZ, Jr., Columbia, Mo. Filed June 15, 1928. Serial No. 285,754. 6 Claims. (Cl. 129—16.)



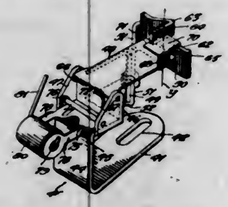
1. An attachment for card-handling boxes comprising a rectangular plate wider than the front-to-rear depth of the box with which it is to be used and having a centrally located area of transverse corrugations.

1,785,816. ELECTRIC INSULATOR. ROY T. LOBDELL, Newburgh, N. Y. Filed Mar. 12, 1930. Serial No. 435,191. 1 Claim. (Cl. 173—28.)



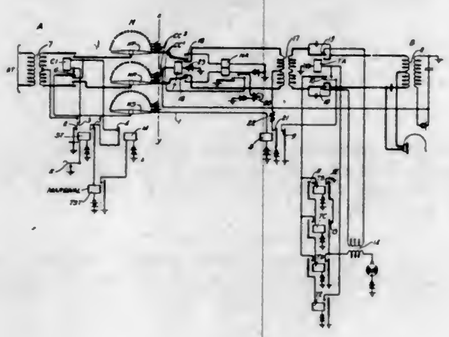
A strain insulator formed integrally of insulating material including a tubular body having a central transverse partition, an eye projecting from one side of the partition centrally thereof, and a pair of eyes projecting from the opposite side of the partition and spaced from the center thereof, said tubular body having an access slot extending longitudinally and from end to end thereof, said eyes being positioned in a plane radial to the axis of the body and at right angles to a similar radial plane passing through the longitudinal center line of the slot.

1,785,817. YARN CLEANER AND SLUB DETECTOR. WILLIAM MARCROFT, Cranston, and GEORGE N. TAYLOR, East Providence, R. I., assignors to Universal Winding Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 11, 1927. Serial No. 225,549. 16 Claims. (Cl. 28—64.)



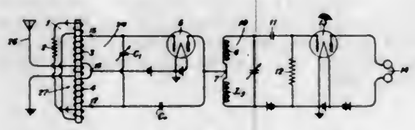
1. In a device of the type specified, the combination of a standard, a detector-element pivoted on said standard and having a yarn-engaging portion arranged parallel with the pivotal axis of said element and a second yarn-engaging portion disposed at substantially right-angles to its axis, said detector-element being normally movable by the engagement therewith of a slub or other enlargement on the yarn to permit the same to pass through the device, a yarn-rest on the standard having angular faces disposed in parallel spaced relation with respect to the yarn-engaging portions of the detector to provide crossing slits through which the yarn draws, and means to adjust the yarn-rest to alter the width of the slits.

1,785,818. TELEPHONE SYSTEM. GEORGE H. PETERSON, Bloomfield, N. J., and WILLIAM A. RHODES, New York, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Jan. 9, 1929. Serial No. 331,209. 2 Claims. (Cl. 179—27.)



1. In a selecting circuit a two-conductor line extending between two stations, switching apparatus contacts in each conductor of said line, said contacts having a high resistance film over their contact surfaces, a source of electrical current of sufficient magnitude to eliminate said contact resistance and means responsive to taking said line for use at one station for completing a circuit for said current source over said line conductors and contacts in parallel.

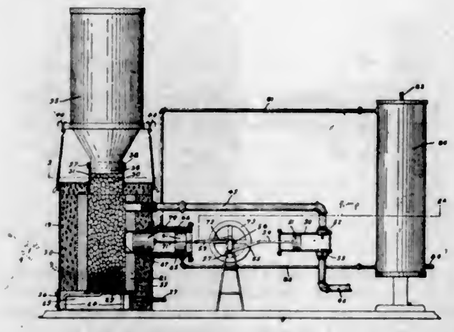
1,785,819. PREVENTION OF PARASITIC OSCILLATIONS. HAROLD C. SILENT, Larchmont, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Nov. 9, 1928. Serial No. 318,194. 9 Claims. (Cl. 175—359.)



1. A transformer comprising a pair of inductively coupled principal windings, an auxiliary winding coupling the leakage flux of both said principal windings in such manner that equal and additive fluxes due to currents in the principal windings are ineffective in the auxiliary circuit but equal and opposed fluxes due to currents in the principal windings induce a resultant voltage in the auxiliary winding.

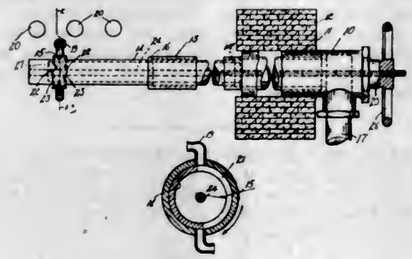
1,785,820. DOMESTIC GAS-GENERATING SYSTEM. HARRY F. SMITH, Dayton, Ohio, assignor to The Gas Research Company, Dayton, Ohio, a Corporation of Ohio. Filed July 30, 1921. Serial No. 488,674. 9 Claims. (Cl. 48—63.)

2. A domestic gas generating system comprising, in combination, a gas producer adapted to contain a fuel bed of ignited carbonaceous material; pumping means for causing air and moisture to pass through said fuel bed, to cause the generation of combustible gas, and to deliver said generated gas to a work device, or place of storage; and heat responsive means cooperating with said pumping



means and adapted to be operated by the heat energy generated within the gas producer for causing operation of said pumping means.

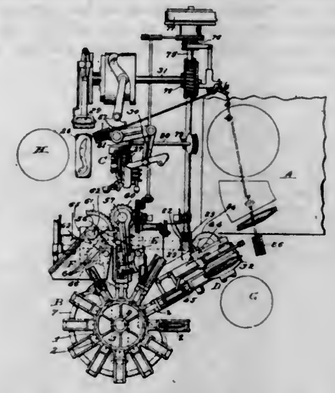
1,785,821. BOILER CLEANER. NORMAN L. SNOW, Detroit, Mich., assignor to Diamond Power Specialty Corporation, Detroit, Mich., a Corporation of Michigan. Filed June 29, 1925. Serial No. 40,424. 12 Claims. (Cl. 122—392.)



1. In a boiler cleaner, a relatively fixed element, a member rotatable on said element, and provided with a discharge nozzle, means for supplying a cleaning fluid to said nozzle, the nozzle being so arranged that the reaction of the cleaning fluid issuing from the same will impart a rotary movement to the member and means for imparting a shuttling movement to said member upon rotation of the same.

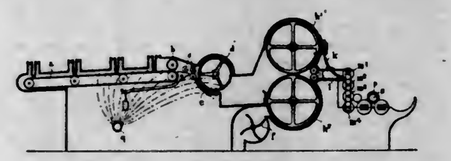
1,785,822. CIGAR MACHINE. GEORGE H. SNYDER, Brooklyn, N. Y., assignor to International Cigar Machinery Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 25, 1924, Serial No. 688,491. Renewed June 27, 1928. 47 Claims. (Cl. 131—5.)

34. The combination with a series of traveling concentrators each having a movable section adapted to occupy a horizontal position at one point in the travel of the concentrators, of a reciprocatory carrier adapted to be positioned above each such section when in that position,



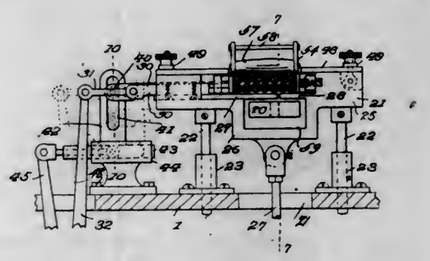
and a pair of trimming knives mounted on the carrier and operated by the movement thereof for cutting off the ends of the contained bunch.

1,785,823. PROCESS OF OPENING AND PREPARING ARTIFICIAL STAPLE FIBER FOR SPINNING. MEINRAD F. THOMA, Fitchburg, Mass. Filed Feb. 8, 1929. Serial No. 338,561. 11 Claims. (Cl. 19—66.)



1. The yarns being spun from the artificial silk fiber before described, possessing a silky and soft feel and having a strength being about 25–40% higher than the strength of yarns spun from untreated artificial fibers.

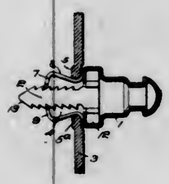
1,785,824. PACKING MACHINE. CESAR LEANDRO VALDES Y VALDES, Habana, Cuba. Filed Mar. 3, 1928. Serial No. 258,988. 9 Claims. (Cl. 226—5.)



1. A cigarette compression means for use in connection with cigarette packaging machines, comprising a compression box mounted for vertical movement, feeding means for introducing cigarettes into the compression box when said box is at the upper limit of movement, a plunger for ejecting the compressed cigarettes from the box when the box is at its downward limit of movement, compression plates operating within the box to engage

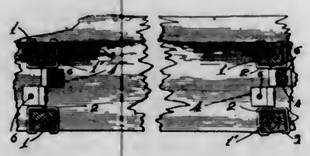
the sides of the cigarette mass, means operative during the downward movement of the box to actuate the compression plates relative to each other, and means operative during the upward movement of the box to provide an opening for the passage of the plunger to permit upward movement of the box while the plunger is in the advanced position.

1,785,825. FASTENING INSTALLATION. MOSES F. CARR, Lexington, Mass., assignor, by mesne assignments, to United-Carr Fastener Corporation, Cambridge, Mass., a Corporation of Massachusetts. Filed Jan. 16, 1926, Serial No. 81,871. Renewed May 24, 1929. 5 Claims. (Cl. 24—219.)



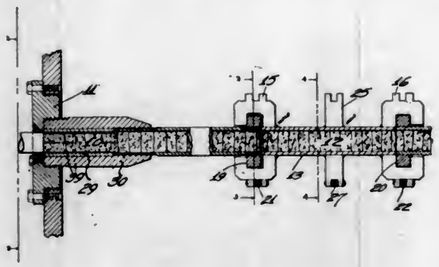
1. In a snap fastener installation, a support presenting an aperture, a contractible and expansible part entered into said aperture and a separable snap fastener element having means for cooperative separable engagement with and disengagement from another snap fastener element by movement toward and away from each other, said snap fastener element having an attaching portion for engagement with said contractible and expansible part to expand and lock it to said support by direct axial movement relative to the contractible and expansible part and interlocking means between the attaching portion and said part for holding said fastener element in position against said support.

1,785,826. PARTITION CONSTRUCTION. MARTIN A. CALLAGHAN, Burlingame, Calif. Filed Apr. 4, 1929, Serial No. 352,415. Renewed May 31, 1930. 8 Claims. (Cl. 189—34.)



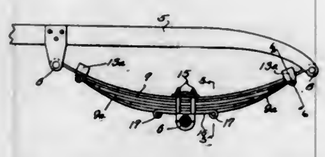
1. A partition structure comprising a plurality of studs mounted in pairs; and a plurality of spacing clips mounted at intervals along each pair of studs, said clips each comprising a pair of oppositely facing members recessed at the ends to engage the studs and provided with extensions formed intermediate of the recessed ends and bent into embracing relation with the opposite clip member for securing said members in interlocking relation to rigidly hold the studs in spaced parallel relation.

1,785,827. FUEL-BRIQUETTE FORMING AND BAKING MACHINE. WILLIAM C. CARPENTER, San Francisco, Calif. Filed Feb. 14, 1928. Serial No. 254,237. 10 Claims. (Cl. 25—12.)



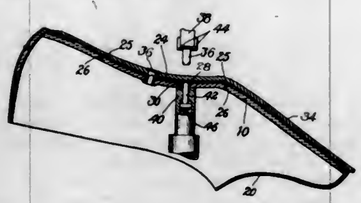
1. In a briquette machine, a forming die comprising a liner, a sectional housing enclosing said liner, reinforcing bands for retaining the sections of said housing in position around said liner and vents in the liner communicating with openings through said housing.

1,785,828. VEHICLE SPRING. CHARLES CHAMBERS, Jr., Flora, Ind. Filed Sept. 15, 1927. Serial No. 219,677. 5 Claims. (Cl. 267—48.)



1. In combination, a vehicle part, a vehicle spring secured thereto, an attaching element secured with the spring to said vehicle part, check springs pivotally connected with the attaching part, and underlying the extremities of the leaves of the vehicle spring, and means for attaching the outer extremities of the check spring to the vehicle springs.

1,785,829. ART OF MANUFACTURING SHOES. JOHN F. CROWLEY, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 9, 1929. Serial No. 345,823. 4 Claims. (Cl. 12—142.)



1. That improvement in the manufacture of shoes which consists in securing an insole to an upper, thereafter securing to the insole a shank stiffener having a fastener-receiving hole therein, inserting a hole forming tool in the hole in the shank stiffener and operating the tool to form a hole in the insole registering with the hole in the stiffener, laying an outsole, and passing a unitary fastener through the outsole and through the registering holes in the shank stiffener and the insole to secure together the outsole, the insole, and the shank stiffener.

1,785,830. SHINGLE AND METHOD OF MAKING SAME. WILLIAM C. DAVIS, Preston, Wash. Filed Apr. 15, 1929. Serial No. 355,292. 3 Claims. (Cl. 144—309.)



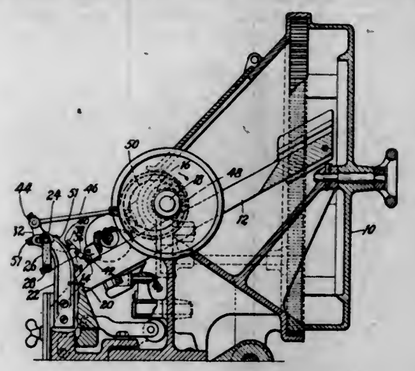
1. The method of forming shingles from a block of wood, which consists in initially slotting the block and then splitting the shingle off the block.

1,785,831. SURGICAL BANDAGE. MARJORIE C. EDMUNDSON, San Pedro, Calif. Filed Mar. 22, 1928. Serial No. 263,842. 2 Claims. (Cl. 128—268.)



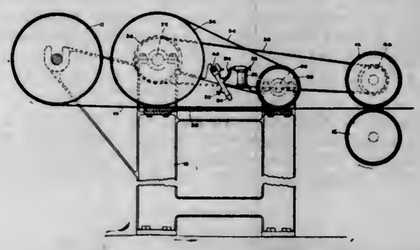
1. A multiple bandage in strip form comprising a plurality of gauze fabric sections arranged with their juxtaposed end edges in spaced relation, and strips of surgical tape extending across the gaps between the fabric sections and along the side edges of said fabric sections and having their adhesive surfaces secured to the said side edges of the fabric sections between the longitudinal centers and inner side edges of said strips, whereby the portions of tape extending across the gaps may be transversely severed to separate the gauze sections from each other.

1,785,832. FASTENING DISTRIBUTOR. WILLY FROMM, Frankfort-on-the-Main, Germany, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 23, 1928, Serial No. 280,107, and in Germany Oct. 18, 1927. 19 Claims. (Cl. 1—39.)



1. In a fastening-distributor, a raceway for fastenings, a fastening-reversing device co-operating therewith, and a clearing member acting upon the fastenings while they are under the influence of the reversing device.

1,785,833. PRINTING DEVICE. ALBERT J. KECK, Newport, Minn. Filed Nov. 15, 1928. Serial No. 319,580. 2 Claims. (Cl. 101—122.)

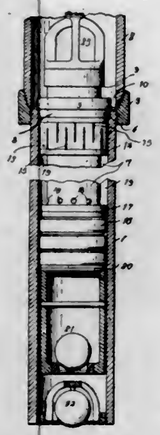


1. A printing device comprising a fixed horizontal abutment in engagement with the upper surface of which, sheet material to be printed is adapted to be fed, two sustaining rollers spaced from each other horizontally and positioned adjacent said supper surface, a stencil belt passing around said rollers so that the lower stretch of the belt is held in engagement with the portion of said sheet material which rests upon said upper surface, means for applying coloring material to said portion of the sheet material through openings in said belt, printing rollers beyond said fixed abutment between which the sheet material is passed, and mechanism for driving one of said sustaining rollers in synchronism with said printing rollers.

1,785,834. DEEP-WELL PUMP. MARTIN H. KILGORE, Beaumont, Tex. Filed July 23, 1928. Serial No. 294,612. 1 Claim. (Cl. 103—188.)

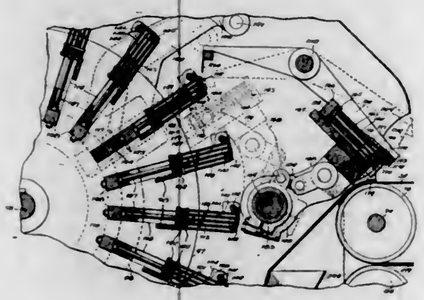
A pump including a working barrel, an upwardly opening standing valve in the lower portion of the barrel, a packing head constructed to bind in the upper end of the barrel, a tubular plunger reciprocable through the packing head and spaced from the barrel whereby an annular chamber will be formed between the barrel and the plunger, the packing head closing the upper end of said chamber, an upwardly opening valve carried by the

lower end of the plunger and controlling flow into the plunger, a stop ring and a collar secured on the plunger above the valve, and packing held on the plunger by and between the stop ring and collar and constituting the bottom of the annular chamber whereby said chamber will be shortened and elongated as the plunger reciprocates, there being ports through the plunger immediately above the collar whereby liquid may flow through the



plunger into the annular chamber on the down-stroke of the plunger to be compressed, returned through said ports and discharged from the plunger on the up-stroke of the plunger, and a cage at the upper end of the plunger, said cage having an external shoulder adapted to impinge upon the packing head to drive the same home and the collar being adapted to impinge against the head for withdrawing the same.

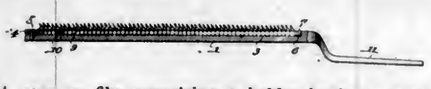
1,785,835. COATING APPARATUS. ELMO G. LANZI, Chicago, Ill., assignor to Bonus Candy Corporation, Chicago, Ill., a Corporation of Illinois. Filed Sept. 28, 1925. Serial No. 59,102. 23 Claims. (Cl. 94—4.)



1. In apparatus of the class described, a cage, means for advancing the cage, a vat disposed in the path of the cage, a conveyor belt, means for transferring treated articles from the cage to the belt, and means for advancing the belt in a series of steps some of which are longer than the rest.

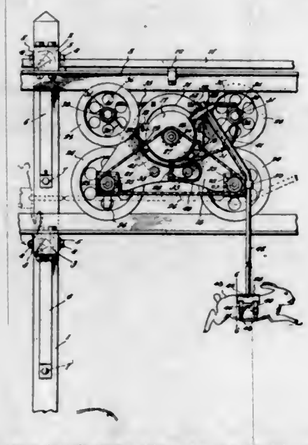
15. In apparatus of the kind described, the combination of means for forming coated clusters, a conveyor for receiving said clusters, means for conveying said clusters from said first mentioned means to the conveyor, and separate means for stripping the clusters from said first mentioned means and said second mentioned conveyor.

1,785,836. RASP OR FILE. VAINO EMIL LEHTO, Evansville, Ind. Filed Jan. 16, 1929. Serial No. 332,029. 1 Claim. (Cl. 29—79.)



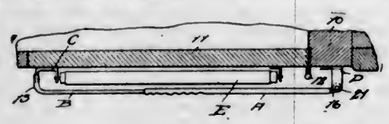
A rasp or file comprising a holder having a seat extending lengthwise thereof provided at its outer end with an attached abutment and at its inner end with a cross groove tapered from one end to its other end and opening out through both sides of the holder, removable teeth whose bodies are received in the seat and which are of lesser width than the cross groove so that their bodies may be inserted in said cross groove for introduction into the seat, or, for removal from said seat, and a removable wedge driven into said cross groove for holding the bodies of the teeth in the said seat, said wedge having its outer face lying below the teeth to prevent interference with the teeth when the rasp or file is in use and to prevent injury to the hands of the user.

1,785,837. OVERHEAD RABBIT CARRIER FOR DOG-RACING TRACKS. WARREN C. LE MIRE, Ancon, Canal Zone, Panama. Filed June 20, 1928. Serial No. 286,927. 11 Claims. (Cl. 272—4.)



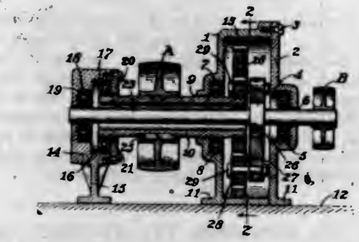
1. In a race track apparatus, an overhead track including upper and lower rails, a carriage between the rails having wheels engaging the rails, a motor carried by said carriage for propelling the same along the track, an arm pivotally connected with said carriage and normally disposed vertically, a lure carried by said arm at its lower end, the upper portion of the arm constituting a handle, a latch carried by said carriage to engage the handle and releasably hold the arm in a vertical position, and a second latch carried by said carriage to engage the arm when swung upwardly and retain the arm in an elevated position.

1,785,838. DRAPERY ROD. RODNEY N. MCCLURE, Inglewood, Calif. Filed Sept. 14, 1926. Serial No. 135,331. 3 Claims. (Cl. 156—22.)



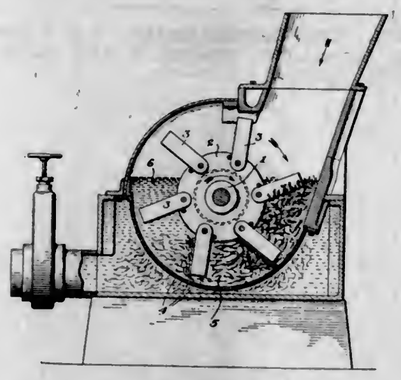
3. A device of the class described comprising a fixture for attachment to a window frame, a fixture for attachment to a hinged window sash, a rod for extension between said fixtures, means for hingedly connecting one end of said rod to one of said fixtures, and means for detachably connecting the other end of said rod to the other of said fixtures in fixed relation thereto, said rod consisting of telescoping sections, cooperative means on said sections for automatically forming yielding predetermined stops for the window as it swings open.

1,785,839. SPEED-CHANGING DEVICE. CONRAD L. MEISTER and CHARLES R. SUGG, Wilmington, N. C. Filed Dec. 5, 1929. Serial No. 411,850. 9 Claims. (Cl. 74—34.)



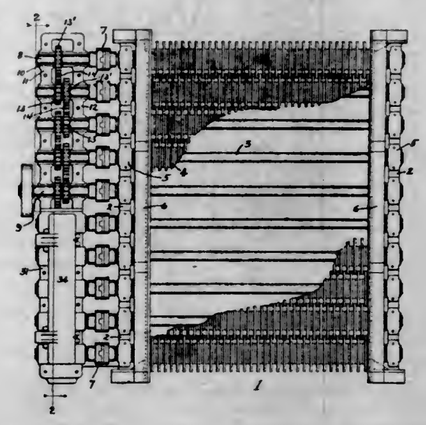
1. A speed changing device comprising a hollow shaft, a solid shaft extending therethrough, and independently supported in bearings located beyond the ends of the hollow shaft, a ring gear, sun gear, and planet gears, said sun gear, planets, and ring gear associated with said hollow shaft and said solid shaft, said ring gear held against movement and said solid shaft adapted to revolve at a different rate of speed within said hollow shaft.

1,785,840. PROCESS FOR PRODUCTION OF FIBERS FOR WALL BOARD AND SIMILAR STRUCTURES. TREADWAY B. MUNROE, Chicago, Ill., assignor to The Celotex Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 6, 1927. Serial No. 181,591. 18 Claims. (Cl. 92—6.)



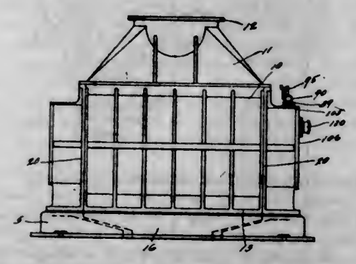
1. The process of preparing fibers for wall-board pulp which consists in subjecting the raw fibrous material to a cooking action in the presence of a suitable chemical produced from previous cooks and at a temperature and for a time sufficient to loosen the encrusting casing material of said fibers but insufficient to produce fibers suitable for paper making; freeing the fibers from their cementing tissues and said casing by hydraulic action under force; and recovering the fibers thus produced.

1,785,841. ROTARY GRIZZLY. ALBERT J. MYERS, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 3, 1925. Serial No. 41,420. 3 Claims. (Cl. 209—104.)



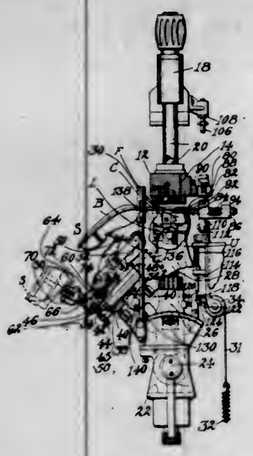
1. In a rotary grizzly structure, the combination with an inclined series of rotary screening roller shafts mounted for removal from the series independently of each other and respectively having rotary screening rollers fixed thereon for rotation therewith of an inclined series of counter-shafts, driving mechanism for said shafts separate from and independent of said rotary screening roller shafts, and separable connections between said counter-shafts and said rotary screening roller shafts; whereby the rotary screening rollers may be removed from and shifted to different locations in the grizzly structure by shifting of their respective rotary screening roller shafts without dismantling of the driving mechanism or altering the rate of rotation of the rotary screening rollers intended in the location in the said series to which they are shifted.

1,785,842. FLUID-HANDLING APPARATUS. ROBERT H. OWENS, Connersville, Ind., assignor to The P. H. & F. M. Roots Company, Connersville, Ind., a Corporation of Indiana. Filed July 31, 1926. Serial No. 126,317. 21 Claims. (Cl. 73—37.)



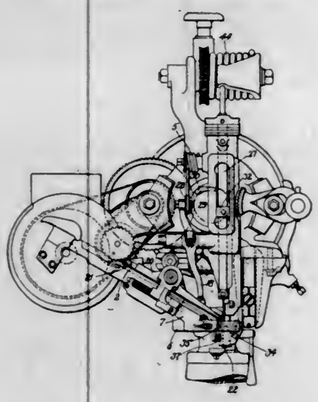
1. A fluid handling apparatus comprising a casing having a fluid passage therein, a rotor disposed in said passage and adapted to cooperate with the fluid therein, a supporting means, and a shaft extending from said supporting means for rotatably supporting said rotor, and means on said rotor surrounding said shaft in bearing relationship therewith.

1,785,843. SHOE MACHINE. ELMER R. POPE, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 11, 1925. Serial No. 36,388. 50 Claims. (Cl. 1—19.)



1. The combination with a shoe-support, of means arranged to grasp by pressure exerted upon the inside and outside opposite portions of the upper of a supported shoe, said means being movable to draw the rear of the upper over the counter-portion away from the shoe-bottom and toward the toe of the shoe.

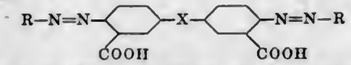
1,785,844. FASTENING-INSERTING MACHINE. WILLIAM THOMAS BUCKINGHAM ROBERTS, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 11, 1928, Serial No. 305,239, and in Great Britain Oct. 8, 1927. 10 Claims. (Cl. 1—18.)



1. A fastening inserting machine having, in combination, a raceway for loose fastenings, a driver, means for reciprocating the driver in a path adjacent to the end of the raceway to insert fastenings in a work piece presented to the machine constructed and arranged to cause the driver to move from a position clear of the raceway to a position opposite the end of the raceway thereby retaining the fastenings in the raceway and thereafter to complete its fastening inserting stroke, a separator movable in a path extending transversely of the direction of movement of the fastenings as they emerge from the raceway, and means for moving the separator in its path constructed and arranged to withdraw the separator from the raceway while the driver is maintained opposite the end of the raceway whereby a fastening is freed to pass the separator and to move into engagement with the driver by which it is retained in the raceway temporarily.

1,785,845. PROCESS FOR THE PRODUCTION OF AZO DYSTUFFS AND AZO DYESTUFFS OBTAINABLE THEREBY. RICHARD STUESSER, Cologne-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed July 11, 1927, Serial No. 205,041, and in Germany July 29, 1926. 5 Claims. (Cl. 260—70.)

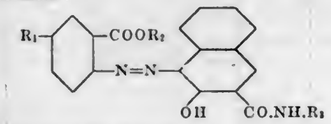
1. As new products, azo dyestuffs having the general formula



wherein R represents the residue of any coupling component containing in orthoposition to the azo group a substituent of the group comprising amino, aryl-amino, acyl-amino, hydroxyl and the desmotropis keto group, and X represents one of the groups azoxy and azo, which dyestuffs are generally soluble in water and in concentrated sulfuric acid, and yield on cotton orange to blue to black shades which may be rendered fast to washing and to light by after-treatment with heavy metal salts.

1,785,846. AZO DYESTUFFS AND MATERIAL DYED THEREWITH. KARL THIESS, Frankfort-on-the-Main-Hochst, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Aug. 26, 1929, Serial No. 388,628, and in Germany Sept. 18, 1928. 10 Claims. (Cl. 260—95.)

1. As new products, the compounds of the following general formula:

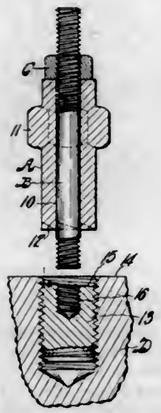


wherein

R_1 stands for a halogen atom,
R_2 for an alkyl group and
R_3 for a naphthyl group the hydrogen atoms of which which may be substituted or not,

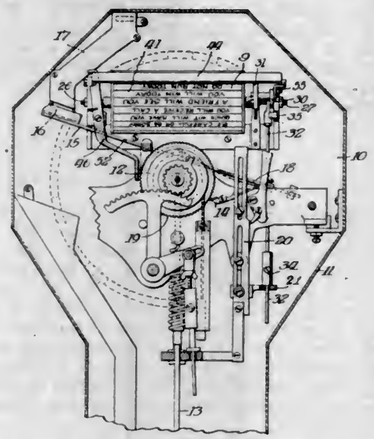
dyeing red tints and being distinguished by their good fastness properties, particularly by their good fastness to light.

1,785,847. SCREW-MOVING MEANS. MARY C. VALENTINE, Cleveland, Ohio. Filed Dec. 31, 1928. Serial No. 329,620. 3 Claims. (Cl. 81—71.)



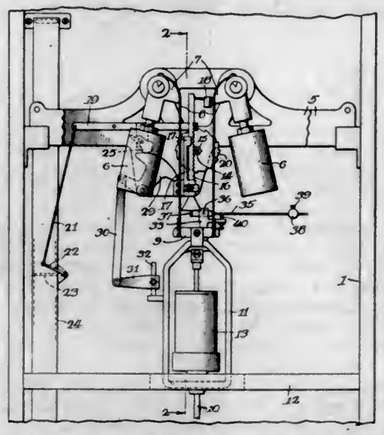
1. A screw moving means including a member fixable in a screw to be moved, a member rotatable and longitudinally movable on said fixable member and having teeth, and a member movable on said fixable member to move said member with teeth to imbed said teeth into material of said screw and to retain the same therein.

1,785,848. AMUSEMENT DEVICE. JOHN B. WATLING, Chicago, Ill., assignor to Thomas W. B. Watling, Chicago, Ill. Filed Mar. 19, 1925. Serial No. 16,628. 19 Claims. (Cl. 40—28.)



1. In a device of the class described, the combination with a coin controlled weighing scale and a casing having an opening therein, of a revoluble indicating cylinder within said casing opposite said opening, a shutter normally disposed in position opposite said opening to conceal said cylinder, means controlled by the coin control mechanism for moving the shutter into position to expose said cylinder, and weight actuated means normally restrained by the weighing mechanism and released thereby during the weighing operation for rotating said cylinder.

1,785,849. WEIGHING SCALE. THOMAS W. B. WATLING, Chicago, Ill. Filed May 28, 1928, Serial No. 281,016. Renewed Jan. 20, 1930. 12 Claims. (Cl. 265—62.)



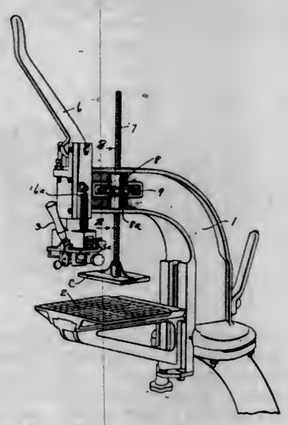
1. In a weighing scale, a vertically movable weight actuated rod, a weight indicator, a counterbalanced stop arm pivoted on said weight-actuated rod, and a vertically movable member connected to the indicator and engaging said stop arm to limit the forward movement of the indicator, substantially as described.

1,785,850. SPLICE BAR OR FISHPLATE. LAWRENCE S. WILBUR, Evanston, Ill. Filed July 22, 1929. Serial No. 380,239. 12 Claims. (Cl. 238—243.)



1. A splice bar or fish plate for connecting rails together, comprising a web having a head and a heel, with a flange integral with said heel, said heel and flange forming the base of the bar, said bar being so formed that in longitudinal vertical section through said web and head and heel the head is higher at the middle of the bar than at the ends thereof, while the bottom of the heel is also higher at the middle of the bar than at the ends thereof, thereby in effect providing a crowned or humped top and a recessed bottom, and whereby the bar is of greater fishing height at its middle than at the ends thereof, portions of the bar at the ends thereof being spaced outward further from the rail sides than a middle portion of the bar, when the bar is resting on the flanges of the rails.

1,785,851. CLAMP TO BE USED IN CONNECTION WITH EMBOSSING MACHINES. FRANK WILLIAMS, New York, N. Y., assignor to Simplex Gold Stamping Press Co. Inc., New York, N. Y., a Corporation of New York. Filed Feb. 6, 1929. Serial No. 337,795. 3 Claims. (Cl. 101—3.)

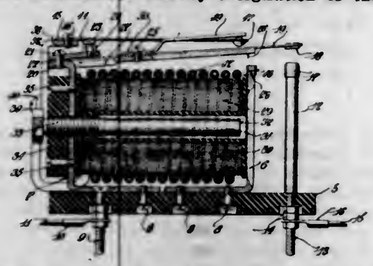


1. In an embossing machine having a table, a clamp adapted to clamp an object against said table, said clamp being connected to an externally threaded spindle, and nut means located in the frame of the machine and cooperating with said spindle, and adapted to force said clamp upwardly or downwardly, said clamp being non-symmetrical with respect to the axis of said spindle, said clamp being horizontally turnable with respect to said frame.

1,785,852. THERMOSTATICALLY-ACTUATED DEVICE. GUSTAV O. WILMS and ALBERT J. DAWE, Milwaukee, Wis., assignors to The Reliance Company, Milwaukee, Wis., a Corporation of Delaware. Filed Aug. 8, 1928. Serial No. 298,302. 11 Claims. (Cl. 175—335.)

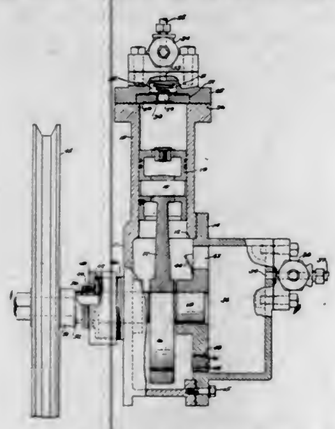
6. In a device of the character described, a transformer having a primary winding and a secondary winding, a thermally responsive member having its ends connected directly across the secondary winding to form a closed circuit therewith, a pole piece, a movably mount-

ed armature, and means normally maintaining the armature in a position spaced from the pole piece and beyond the active field thereof whereby energization of the pri-



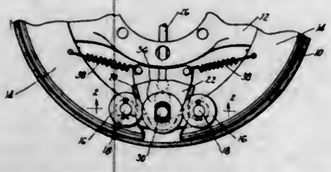
mary winding induces a current in the secondary circuit which flows through the thermally responsive member to deflect the same and move the armature within the field of the pole piece.

1,785,853. COMPRESSOR. AUGUST J. ASMUSSEN, Detroit, Mich., assignor to Diamond Tool & Engineering Company, a Corporation of Michigan. Filed June 4, 1928. Serial No. 282,654. 9 Claims. (Cl. 230—206.)



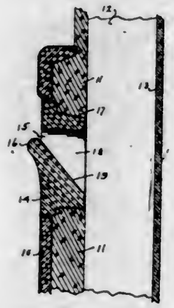
1. In a compressor for refrigerating systems, in combination with a crank case thereof, a container, a wall common to said container and said crank case, a wall of said container having a passage for introducing lubricant laden gasified refrigerant into said container, the first mentioned wall having a restricted opening connecting the lower portion of said container with said crank case, and said first mentioned wall having a larger opening connecting the upper portion of said container with said crank case.

1,785,854. BRAKE-OPERATING MECHANISM. VINCENT BENDIX, Chicago, Ill., and DAVID L. GALLUP, South Bend, Ind., assignors to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed July 12, 1928. Serial No. 292,152. 7 Claims. (Cl. 188—78.)



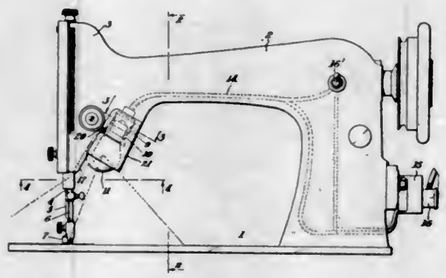
1. A brake comprising, in combination with shoes having adjacent ends each provided with a pair of rollers on its opposite sides, a laminated operating wedge including a central stamping extending between the rollers of each of said ends and holding the shoe ends and the wedge in operative alinement, and side stampings permanently secured to opposite sides of the central stamping and formed on their edges with wedge surfaces engaging the four rollers, together with a thrust rod having a ball-and-socket engagement with said central stamping.

1,785,855. RAZOR-BLADE-DISPOSAL TILE. ROY CARLISLE, Indianapolis, Ind.; Rose A. Carlisle, administratrix of said Roy Carlisle, deceased, assignor, by direct and mesne assignments, to Razor Blade Tile, Incorporated. Filed May 9, 1927. Serial No. 189,783. 6 Claims. (Cl. 72—18.)



4. A wall tile unit having a face with matching edges therearound and a sharply upwardly inclined passage through the tile terminating in a narrow slit-like opening through the face side of the tile said opening having a lip immediately horizontally thereunder, and said passage expanding rapidly from said opening to its discharge at the rear.

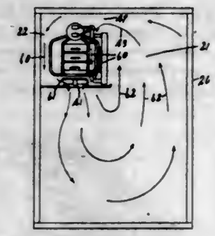
1,785,856. ELECTRICALLY-LIGHTED SEWING MACHINE. DANIEL H. CHASON, Elizabeth, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Dec. 3, 1929. Serial No. 411,323. 5 Claims. (Cl. 240—2.)



1. A sewing machine having a goose-neck comprising an overhanging arm terminating in a needle-bar housing head having a downwardly inclined under wall, an electric lamp including socket and bulb members disposed under and closely adjacent said inclined under wall, and a trough-shaped reflector applied to said housing head, the under wall of said head and said trough-shaped reflector, taken together, constituting a complete circumferential enclosure for said lamp.

CARNEGIE LIBRARY OF ATLANTA

1,785,857. REFRIGERATING APPARATUS. RALPH H. CHILTON, Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation, a Corporation of Delaware. Filed Nov. 18, 1926. Serial No. 149,107. 5 Claims. (Cl. 62—141.)



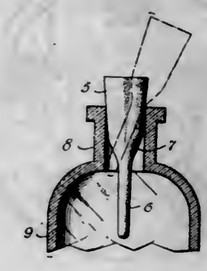
3. Refrigerating apparatus comprising a cabinet having a food chamber and a cooling chamber communicating with the food chamber; a cooling unit in the cooling chamber; and means for containing a liquid and providing for the circulation thereof, said means comprising a container chilled by the cooling unit, a container subjected to warmer air circulating in the food chamber, and ducts connecting the containers to provide for circulation of liquid between the containers and in which the second mentioned container provides a portion of the partition separating the chambers of the cabinet.

1,785,858. CHICKEN BATTERY. WARREN H. DAVIS, Nashua, N. H. Filed Jan. 20, 1928. Serial No. 248,086. 3 Claims. (Cl. 119—17.)

1. In a chicken cage, the combination of a panel, a feed trough adjacent to the panel, the panel having a series of upright spaced rods, and bars extending transversely to and secured to said rods; a slide having a series of upright spaced rods alternating with the rods of the panel, and bars extending transversely to and secured to the upright rods of the slide; the slide bars being in engagement with the front sides of the panel rods, and rods of the slide having upper and lower portions engaging the rear sides of the panel bars; the slide being adjustable to vary the spaces between the rods of the panel and the rods of the slide to allow heads of growing chicks to pass through the spaces to the trough and prevent their bodies from passing therethrough; and means to secure the slide in different positions of adjustment.

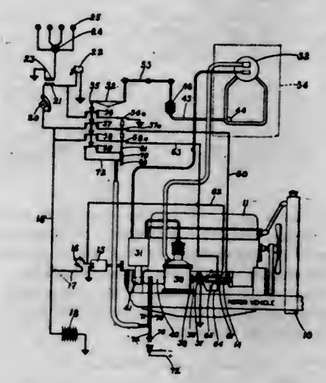
1,785,859. STOPPER FOR DILUTION BOTTLES. EDWARD ESCHER, Jr., Brooklyn, N. Y. Filed June 27, 1928. Serial No. 288,732. 1 Claim. (Cl. 215—247.)

A stopper for dilution bottles, consisting of a sealing body of tapering form differing from the interior shape of the bottle neck for which it is designed whereby said body fits said neck loosely, a solid stem of reduced diameter projecting from said body at one end and comprising an integral part thereof, said body and stem being made



of relatively soft rubber, and an annular sloping shoulder extending between said stem and body and merging into both the stem and body along curved lines, said sloping shoulder constituting the inner end surface of the body.

1,785,860. REFRIGERATING APPARATUS. JOHN RALPH FEHR, Dayton, Ohio, assignor to Frigidaire Corporation, Dayton, Ohio, a Corporation of Ohio. Filed Mar. 31, 1928. Serial No. 266,288. 8 Claims. (Cl. 62—117.)

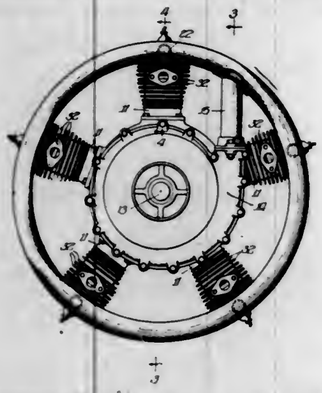


1. Refrigerating apparatus comprising in combination a motor vehicle, a motor for driving the vehicle, a refrigerating system carried by the vehicle and including a compressor, means for mechanically connecting the compressor to the vehicle motor, and means for operating the compressor from a source of energy independent of the vehicle.

1,785,861. AIR-COOLED INTERNAL-COMBUSTION ENGINE. HOWARD A. FLOGAUS, Detroit, Mich., assignor to Ralph L. Skinner, Detroit, Mich. Filed Oct. 26, 1927. Serial No. 228,741. 2 Claims. (Cl. 123—171.)

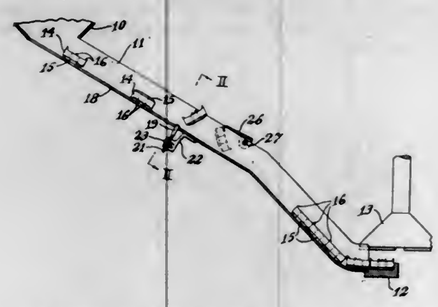
1. In an internal-combustion engine, the combination of an engine-cylinder and its head, the latter having a cooling air-jacket with admission and discharge ports, a carbureter and its connections to feed the fuel-mixture

to said cylinder, an air-blower operated by the engine, means to conduct the air from said blower to said air-



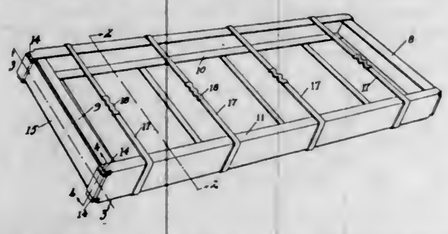
jacket admission-port, and means to convey the air from said jacket discharge-port to the air-intake of said carbureter.

1,785,862. AUTOMATIC FEED FOR BURRING MACHINES. JAMES A. FLOWERS, Birmingham, Ala. Filed Nov. 9, 1929. Serial No. 406,120. 10 Claims. (Cl. 10—162.)



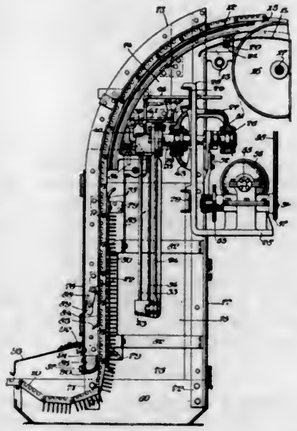
1. In apparatus of the character described, an inclined chute down which articles are adapted to slide by gravity, and a tripper in the bottom of the chute positioned to engage downwardly projecting protuberances on said articles during their movement down the chute, and in response to the acquired momentum of the articles cause them to turn over in the chute.

1,785,863. CRATE FOR METALLIC SHEETS. JONATHAN R. FREEZE, Middletown, Ohio, assignor to The American Rolling Mill Company, Middletown, Ohio, a Corporation of Ohio. Filed Aug. 21, 1929. Serial No. 387,479. 5 Claims. (Cl. 206—60.)



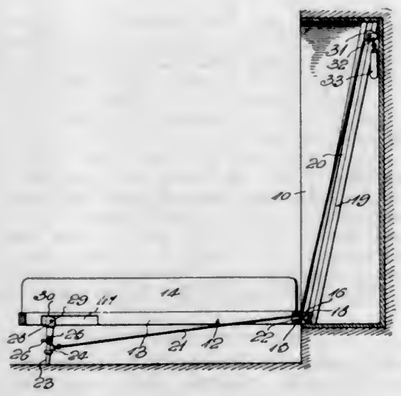
1. In a metal crate, end channels, side channels adapted to cover the ends of the end channels, said side channels provided with lapels formed in the bases and lips thereof, the base lapels turned over to lie outside the end channels, the lip lapels turned over to form a tying abutment, and means for fastening said crate together by engaging opposed abutments.

1,785,864. MEANS FOR IMPREGNATING MATCH SPLINTS. CARL C. HAFERKAMP and WILLIAM J. ELDER, Oswego, N. Y., assignors to The Diamond Match Company, Chicago, a Corporation of Illinois. Filed Oct. 18, 1928. Serial No. 313,300. 9 Claims. (Cl. 91—45.)



1. The combination with a travelling carrier constructed and arranged to support rows of projecting match splints, and means for guiding a portion of the carrier in a substantially vertical path, of a spraying element mounted laterally of and discharging horizontally toward the path of the splints, said element including a pendant member having longitudinal solution and air ports and having also a nozzle in communication with the lower ends of said ports, means supporting said member above the nozzle to permit bodily movement of the member and nozzle transversely of said path, and means for actuating said member.

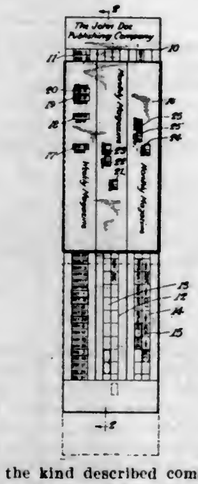
1,785,865. FOLDING BED OR COUCH. CHARLES H. HOUSE, Arkansas City, Kans. Filed Nov. 20, 1929. Serial No. 408,492. 3 Claims. (Cl. 5—147.)



1. The combination with upstanding guide means, of a bed element having one end engaging the guide means

to travel longitudinally of the same, a pulley supported near the upper end of the guide means, a flexible element passed about the pulley and extending longitudinally of the bed element and serving to raise the inner end of the bed element, a weight secured to the flexible element, and a folding leg pivotally mounted upon the outer end of the bed element and having the flexible element attached thereto, the arrangement being such that the flexible element serves to both raise the inner end of the bed element and automatically folds the legs when the adjacent end of the bed element is raised.

1,785,866. CHART FOR SUBMITTING ADVERTISING MATTER. HOWARD J. HUENE, Brooklyn, N. Y. Filed Dec. 2, 1927. Serial No. 237,150. 2 Claims. (Cl. 40—65.)



1. A chart of the kind described comprising a member having a plurality of series of dates thereon, all the dates of one series being adapted to serve alternatively as issue dates and as advertising-submission dates, a second member movable with respect to the first member, having indicia thereon so disposed that when one part of the index indicates an issue date the other parts will indicate dates for submitting advertisement, all nonpertinent dates adjacent those desired being hidden from the eye of the observer.

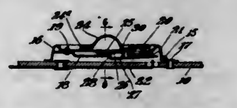
1,785,867. MAIL CHUTE. MARTIN KATZ, Brooklyn, N. Y. Filed Feb. 26, 1930. Serial No. 431,456. 7 Claims. (Cl. 193—8.)



1. In a glass receiving panel, a sash member having an inner face adapted to engage the outer marginal face of the glass, a resilient clamp member having a marginal side edge secured in interlocking relation with the inner face of said sash member, the remaining portion of said clamp member being bent to form a yielding stop engaging an edge of the glass and to fold over and engage the inner face thereof.

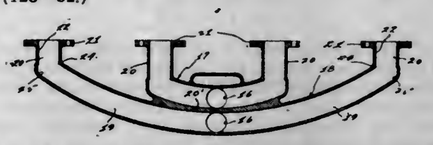
1,785,868. FLASH-LIGHT SWITCH. HARRY M. KORETZKY, Hoboken, N. J., assignor to Bright Star Battery Company, Hoboken, N. J., a Corporation of New York. Filed Apr. 2, 1927. Serial No. 180,377. 2 Claims. (Cl. 200—60.)

1. A switch mechanism for flash-lights comprising a housing having an aperture, a resilient contact member mounted in said housing and having offset portions, a button in said aperture for flexing said contact member, said contact member being capable of flexure independently of said button, a member for locking said button to



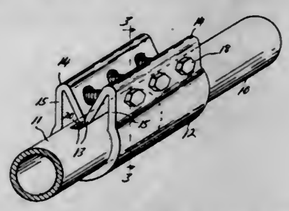
prevent flexure of said contact member thereby, said locking member being slidable and having a portion adapted to engage said contact member whereby movement of said locking member flexes said contact member into and maintains it in circuit closing position.

1,785,869. MANIFOLD. EARLE S. MACPHERSON, Detroit, Mich., assignor to Hupp Motor Car Corporation, Detroit, Mich., a Corporation of Virginia. Filed May 16, 1927. Serial No. 191,895. 7 Claims. (Cl. (123—52.)



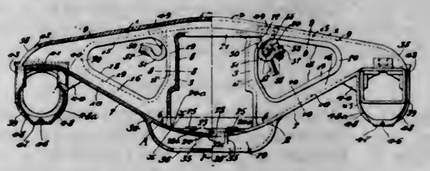
1. In a manifold, a riser having a carburetor connection and a pair of branch conduits curved longitudinally and terminating in angularly extending straight ends, each conduit having an angular corner at the inner side of the juncture of the curved and straight portion and a rounded contour at the outer side thereof.

1,785,870. COUPLING. HENRY MARLES, Detroit, Mich., assignor to Gemmer Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 9, 1926. Serial No. 128,273. 3 Claims. (Cl. 287—118.)



1. In a coupling, the combination with a pair of axially aligned shafts, each having a longitudinally extending groove, of a sleeve embracing the end portions of said shafts, a member associated with said sleeve and inclined with respect to said shafts and rockable to engage said groove, and means for rocking said member.

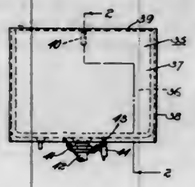
1,785,871. SIDE FRAME FOR CAR TRUCKS. MARK H. MARTIN, Reading Pa., assignor to Birdsboro Steel Foundry & Machine Company, Birdsboro, Pa., a Corporation of Pennsylvania. Filed Dec. 11, 1928. Serial No. 325,269. 21 Claims. (Cl. 105—205.)



1. A side frame comprising a compression member, a tension member, spaced bolster columns interposed be-

tween the said members the central portion of the said compression member being curved, the said members and the said bolster columns being of channel shape in cross section, and the webs of the said columns and members being thinner in the regions of their neutral axes than the marginal edge portions thereof.

1,785,872. PROTECTIVE COVER FOR PLUMBING FIXTURES. JOHN H. MCCANN, Chicago, Ill. Filed Mar. 8, 1930. Serial No. 434,187. 7 Claims. (Cl. 4—68.)



1. In combination with a plumbing fixture including a body having an upwardly open cavity and laterally exposed surfaces extending in different directions from each other; a protective cover including a main portion dimensioned to serve as a closure for the cavity, and depending flanges adapted to enclose the lateral surfaces, a rigid tie member connected to the flanges and arranged for engaging the lower edges of the fixture, and locking means arranged to preclude unauthorized removal of the cover.

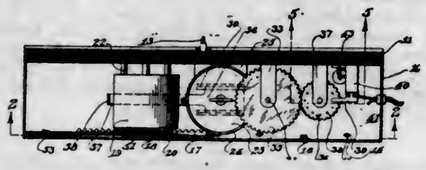
1,785,873. VACUUM CLEANER. EDWARD J. MULLER, Princeton, N. J. Filed Nov. 29, 1929. Serial No. 410,281. 2 Claims. (Cl. 15—246.)



2. A mop-cleaning attachment for vacuum cleaning devices comprising a receptacle, open at its top and substantially elliptical in horizontal cross section at its upper portion, said receptacle gradually decreasing downward in cross-sectional area and approaching tubular form in cross section, an integral tubular portion on the lower end of said receptacle adapted to connect with vacuum cleaning devices, and porous means in the elliptical portion of said receptacle for supporting a mop.

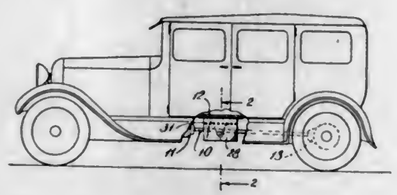
1,785,874. RECORDING INSTRUMENT. GEORGE PAXSON MURPHEY, Philadelphia, Pa. Filed June 17, 1927. Serial No. 199,449. 6 Claims. (Cl. 234—29.5.)

1. A recording instrument including a speed indicator having an oscillating pointer, a tip on the pointer, an insulator surrounding the tip, a terminal plate disposed in close proximity to the tip, a chart secured to the terminal, an induction coil having the ends of its secondary winding connected to the pointer and to the terminal re-



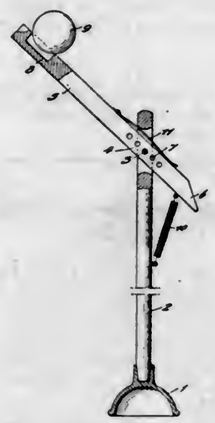
spectively, means for moving the terminal plate, and means for intermittently furnishing the induction coil with electrical current.

1,785,875. AUTOMOBILE THEFT ALARM. OTTO A. PELZ, Brooklyn, N. Y. Filed Apr. 26, 1930. Serial No. 447,530. 3 Claims. (Cl. 116—33.)



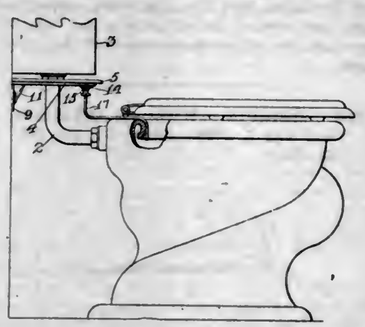
1. In a vehicle alarm for vehicles having a drive shaft extending beneath the floor of the vehicle, a striker flexibly secured to the drive shaft and rotating therewith, a lock mounted adjacent said rotary shaft, said lock having a slide bar, and a gong mounted on said bar, said bar being slidable to carry the gong into and out of the path of the striker on said rotary shaft.

1,785,876. CATAPULT. JOSEPH PILATES, New York, N. Y. Filed Oct. 3, 1928. Serial No. 310,063. 2 Claims. (Cl. 124—1.)



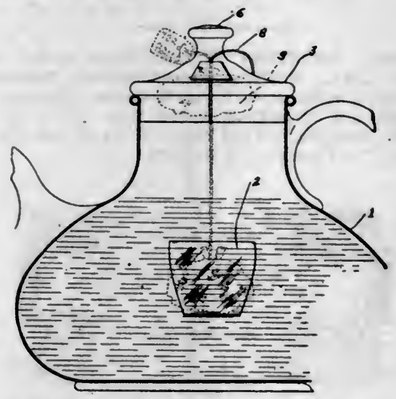
1. A catapult comprising an elongated member, a substantially horizontal throwing member pivotally and adjustably supported on said elongated member, yieldable operating means connecting said members and capable of imparting force thereto when operated, and means mounted on said elongated member whereby a discharged object may be caught therein.

1,785,877. DRIP PAN FOR TOILET FLUSH TANKS. NORBERT A. RUBNER, Milwaukee, Wis. Filed Jan. 8, 1930. Serial No. 419,407. 4 Claims. (Cl. 4—252.)



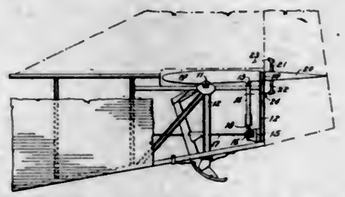
1. A device of the class described including a substantially U-shaped trough-like body, supporting brackets integral therewith and a drainage tube communicating with the through-like body at its intermediate portion.

1,785,878. TEAPOT. JOSEPH WILLIAM SCHACHTER, Brooklyn, N. Y. Filed Aug. 29, 1929. Serial No. 389,110. 3 Claims. (Cl. 53—3.)



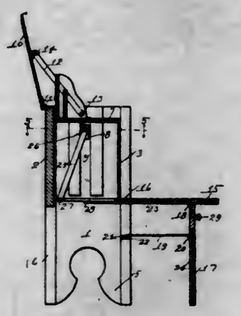
1. A teapot having a cover provided with a radial slit, and a lid hinged to said cover and disposed in position to overlie said slit for the greater part of its length, said lid being adapted to grip a tea ball-suspending-cord between one edge of the lid and the inner end wall of the slit.

1,785,879. AIRPLANE CONTROL. WILLIAM B. STOUT, Detroit, Mich., assignor to Ford Motor Company, Highland Park, Mich. Original application filed July 11, 1925, Serial No. 42,944. Divided and this application filed Oct. 5, 1926. Serial No. 139,591. 1 Claim. (Cl. 244—29.)



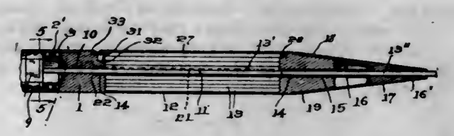
An airplane including a fuselage, a stabilizer, a frame forming a part of the former, a link member slidably mounted in said frame, said link member comprising a pair of spaced elements, a connecting member between the lower ends thereof, a screw extending from said connecting member, a nut upon said screw, means for maintaining said nut against shifting, means for turning said nut, a pivot member extending between the upper ends of said elements, said stabilizer being secured to said pivot element and a further pivot between said stabilizer and fuselage.

1,785,880. CABINET FOR TELEPHONES AND THE LIKE. JOHN E. STRONG, Grand Rapids, Mich. Filed Apr. 10, 1930. Serial No. 443,039. 5 Claims. (Cl. 312—165.)



5. In a structure of the class described: an open-top cabinet; a closure therefor having a swinging movement thereon to open and to closed positions; a table having a vertical movement in the cabinet; a seat having a swinging movement on the cabinet to a horizontal position of use and to a vertical position; connections between the closure and table for lowering the table by the closing movement of the closure and vice versa; and connections between the seat and the table for raising the table by the movement of the seat to horizontal position and vice versa.

1,785,881. MECHANICAL PENCIL. RICHARD B. TAVENNER, Pasadena, Calif. Filed Aug. 10, 1929. Serial No. 384,973. 6 Claims. (Cl. 120—14.)

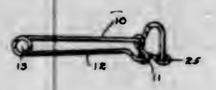


3. In a mechanical pencil, a tubular lead guide provided with a longitudinal opening in its side wall of sufficient size to permit passage of a lead therethrough, a magazine surrounding said lead guide and relatively rotatable with respect thereto, a lead storage chamber in said magazine and opening through the inner and outer faces thereof, said inner opening being movable into or out of registration with said opening in the lead guide by relative rotation of said magazine, and closure means movable to positions to respectively cover and uncover said outer opening.

1,785,882. DEVICE FOR LOCKING SCREEN DOORS AND THE LIKE. JAMES E. TAYLOR, Cleveland, Ohio. Filed Oct. 22, 1928. Serial No. 314,016. 4 Claims. (Cl. 292—106.)

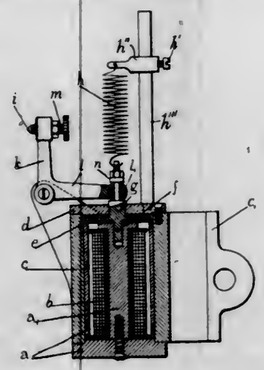
1. A locking device comprising a strip of wire bent to provide two arms, a keeper slidable along the arms,

each of said arms having a notch therein adapted to be engaged by the keeper when the keeper is in locking



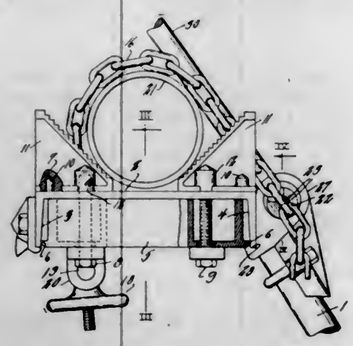
position, said notches being offset with relation to each other, whereby the keeper extends diagonally to the arms when in locked position.

1,785,883. APPARATUS FOR ENGRAVING PRINTING ROLLERS. ALBERT TEISSÈRE and JEAN TEISSÈRE, St.-Julien, Aube, France. Filed Nov. 20, 1928, Serial No. 320,722, and in France July 4, 1928. 4 Claims. (Cl. 33—18.)



1. In apparatus for electro-magnetically engraving printing rollers: an engraving point and means for operating the same, comprising a pivoted bell-crank lever of light material carrying the engraving point on one arm, an armature in the form of a magnetic disc of very reduced mass actuating the other arm, and an electro-magnet in the form of a pot to operate said armature, the arrangement being such that the disc armature is received in said electro-magnet.

1,785,884. PIPE VISE. WILLIAM W. VOSPER, Toledo, Ohio, assignor to The Toledo Pipe Threading Machine Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 3, 1927. Serial No. 223,626. 7 Claims. (Cl. 81—19.)



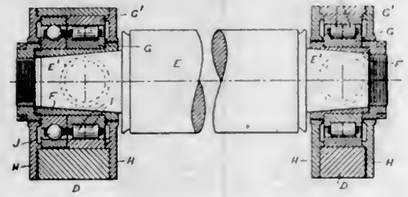
1. A bench type support embodying a channel, a reinforcement in the channel, jaws opposing the reinforcement and carried by the support on the opposite side of the channel from the reinforcement, a chain anchored with the reinforcement and having a free end extending therefrom to pass about an object for clamping the object toward the jaws, said free end being connectable to the support, and means for shortening the effective length of the chain for effecting clamping of the object toward the jaws.

1,785,885. HAIRPIN. HARRY M. AMSTRONG, Chicago, Ill. Filed May 7, 1929. Serial No. 361,123. 1 Claim. (Cl. 132—50.)



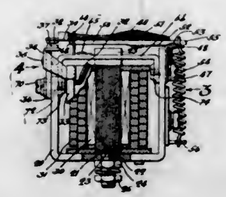
As a new product of manufacture, a hair pin constructed from a single length of material, the intermediate portion being formed with a cylindrical cross section for allowing maximum retensioning effects, the end portions being formed of flat rectangular cross section, said intermediate portion being bent upon itself to provide an expanding spring and to dispose said flat portion in spaced hair-gripping relationship, said flat portion constituting arms, and the free ends thereof being constructed to provide a resilient snap-clasp.

1,785,886. MOUNTING OF CALENDER ROLLS AND THE LIKE. GEOFFREY FOSTER BARRETT, Springfield, England, assignor to Norma-Hoffmann Bearings Corporation, a Corporation of New York. Filed Mar. 20, 1923, Serial No. 626,270, and in Great Britain Apr. 13, 1922. 10 Claims. (Cl. 308—72.)



1. A mounting for calender rolls and the like comprising a housing for the journal bearing at each end of a roll and means for simultaneously shifting the two housings of a roll in opposite lateral directions.

1,785,887. CIRCUIT INTERRUPTER. WILLIAM A. CHRYST, Dayton, Ohio, assignor to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Nov. 18, 1927. Serial No. 234,111. 9 Claims. (Cl. 200—87.)

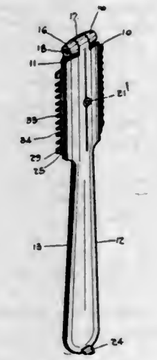


1. A circuit interrupter comprising a magnet frame supporting a core surrounded by a winding, an armature pivotally supported by the frame, interrupter contacts, one of which is actuated by the armature, a tension spring for urging the armature away from the core, and means for adjusting the tension of the spring and comprising a lever attached to one end of the spring and pivotally supported by the frame, means for turning the lever, and means for clamping the lever to the frame in adjusted position.

1,785,888. GLASS PURIFICATION. GEORGE C. COX, Raleigh, and HENRY K. MCINTYRE, deceased, Raleigh, N. C., by Edna Moore McIntyre, executrix, Raleigh, N. C., and John Gardiner McIntyre, New York, N. Y., and Malcolm McIntyre, Cranford, N. J., executors. Filed Oct. 5, 1926, Serial No. 139,751. Renewed May 8, 1930. 2 Claims. (Cl. 204—19.)

1. The process of purifying glass which comprises the maintaining of glass stock electrolyte at an optimum temperature by the generation of heat within the electrolyte, and the passing of direct current through the electrolyte, thereby depositing reduced metal at the cathode.

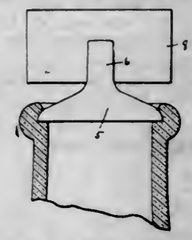
1,785,889. SAFETY RAZOR. JOHN CURRIE, Barrington, Huntingdon, Quebec, Canada. Filed July 7, 1928. Serial No. 290,979. 1 Claim. (Cl. 30—12.)



In a device of the kind described, a pair of handles each having an end portion, with a bevelled back terminating in a hinge lug, said lugs being pivotally connected by a retaining hinge pin, one of said handles having recesses in its inner surface towards the hinge portion and the other of said handles having bosses on its inner surface to correspond with the recesses of the other, said handles having bevelled outer surfaces, a guard plate and a skim plate having orifices and inserted between the handles and engaging with the recesses and bosses of the handles and adapted to receive a blade between them, and a screw inserted through one of the handle recesses and through the orifices of the guard and stiffening plate and threaded into one of the bosses of the other handle.

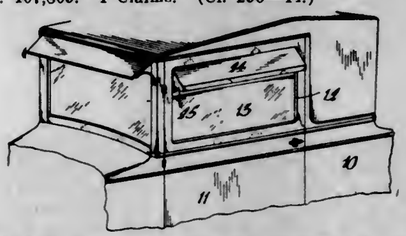
1,785,890. BOTTLE CLOSURE. LEO F. DALTON, Terre Haute, Ind. Filed Apr. 22, 1929. Serial No. 357,055. 4 Claims. (Cl. 215—51.)

4. In a bottle closure of the class described, a thickened disk-shaped cap of yieldable and flexible material with an extension rising therefrom adapted to be received within and completely cover the bottle, said extension having therein a slit for the reception of a card, the upper surface of the cap being convexed and adapted



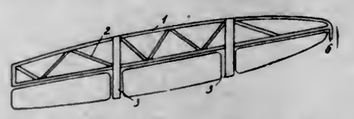
to receive advertising matter, said extension being cylindrical and having a slit vertically and diametrically disposed with respect thereto for the reception of a card.

1,785,891. VENTILATOR FOR AUTOMOBILES. FRED W. DANAT, Buffalo, N. Y. Filed Nov. 18, 1929. Serial No. 407,809. 4 Claims. (Cl. 296—44.)



1. A ventilator for automobiles, comprising a vented panel adapted for insertion between the window frame and the opposing top edge of the sliding window thereof, said panel having attaching flanges at its top and sides for engagement with the window-receiving grooves of the frame, means at the lower edge of the panel for gripping the top edge of the sliding window, and members projecting from the upper and lower edges of said panel in spaced overlying relation thereto and on opposite sides thereof.

1,785,892. STUB WING OF FLYING BOATS. CLAUDE DORNIER, Friedrichshafen - on - the - Bodensee, Germany, assignor of one-half to the Firm Dornier-Metallbauten G. m. b. H., Friedrichshafen-on-the-Bodensee, Germany. Filed May 11, 1929, Serial No. 362,377, and in Germany May 14, 1928. 5 Claims. (Cl. 244—2.)

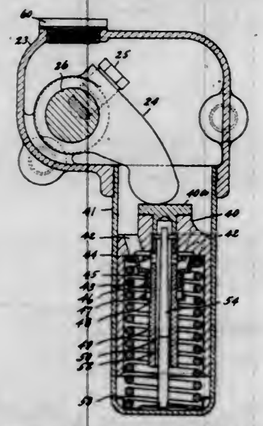


1. A stub wing for flying machines and an elastic protective body covering part of the bottom side of such stub wing.

1,785,893. REBOUND CHECK. GEORGE W. ELSEY, Anderson, Ind., assignor, by mesne assignments, to Delco Products Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Apr. 2, 1926. Serial No. 99,371. 3 Claims. (Cl. 267—8.)

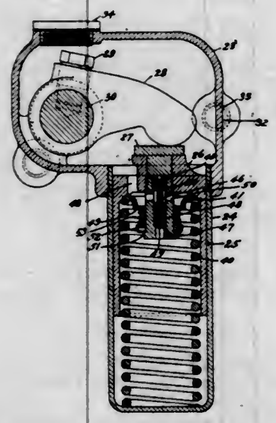
2. A rebound check for controlling the movement of two relatively movable members, comprising in combination, a casing providing a fluid reservoir, secured to one of said members; an oscillatable part supported by said casing; means for connecting said part to the other of said members; a closed end cylinder attached to the casing and communicating therewith; a piston in the cylinder, adapted to be operated in the one direction by

the oscillatable part, said piston having a fluid passage in its head portion providing communication between the interior of the cylinder and the casing; a valve in the piston providing for the substantially free flow of fluid through the piston head passage when the piston is moved away from the closed end of the cylinder; a fluid conduit carried by the piston head for by-passing fluid around the check valve when the piston is moved toward the



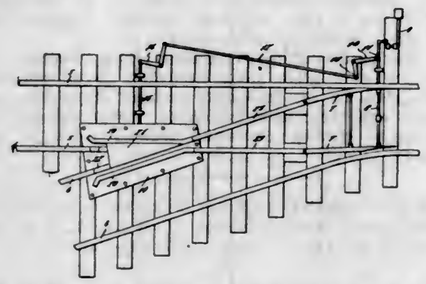
closed end of the cylinder; a mounting disc in the cylinder engaging the closed end thereof, said mounting disc carrying a metering pin which extends coaxially into the fluid conduit; and a spring interposed between the valve in the piston and the mounting disc, for maintaining said valve and disc in their proper positions on the piston and cylinder end respectively, said spring being adapted to move the piston in the direction away from the closed end of the cylinder.

1,785,894. SHOCK ABSORBER. GEORGE W. ELSEY, Anderson, Ind., assignor, by mesne assignments, to Delco Products Corporation, Dayton, Ohio, a Corporation of Delaware. Filed May 28, 1926. Serial No. 112,266. 3 Claims. (Cl. 267—8.)



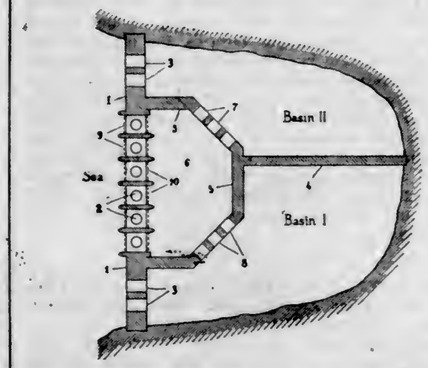
1. A shock absorber comprising, in combination, a main lever whose motion in one direction is to be checked, a cylinder for containing a liquid, a bracket for supporting the cylinder, a piston within the cylinder, an operating member for positively moving the piston according to the movement of said lever, a duct through the piston providing for the relatively free flow of liquid, a check valve for preventing the flow of liquid through said duct when the piston moves in one direction, a duct member carried by the piston for by-passing said check valve, said duct member slidably supporting said check valve, a plunger valve within the duct and cooperating therewith to provide a flow-resisting passage of substantially constant dimensions for different positions of the plunger valve, and a spring for maintaining the plunger valve upon a valve seat provided by the duct in order to prevent liquid flow through said passage until a certain liquid pressure has been reached.

1,785,895. SWITCH-OPERATED FROG. WILLIAM A. ENGLAND, Davy, W. Va. Filed Feb. 26, 1930. Serial No. 431,519. 1 Claim. (Cl. 246—385.)



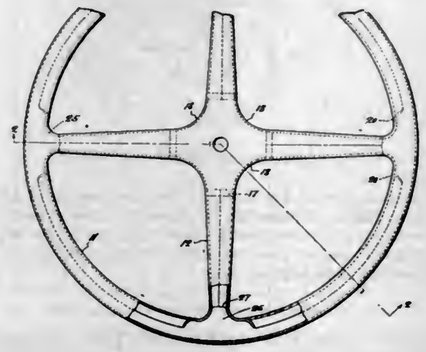
A railway frog comprising a base plate having a pair of spaced slots elongated transversely of the plate and a pair of integrally formed rail members extending longitudinally of the plate and adjacent relatively opposite ends of the slots, said rail members being angularly disposed to converge toward one end of the plate to provide a triangular space therebetween, a pair of relatively short longitudinally extending rail members disposed oppositely between the divergent ends of the angularly disposed rail members in relatively spaced relation, a triangular frog block disposed in the triangular space between said rail members and slidable transversely of the plate, a relatively small slide plate of triangular shape disposed against the under side of said base plate and crosswise thereof with its base bridging the said slots and its apex pointed laterally of the base plate for connection with an operating rod, said slide plate having an opening in each corner, and headed fasteners extending upwardly through the corner opening in the base of the slide plate and threadedly engaged with said frog block.

1,785,896. METHOD OF UTILIZING THE TIDES FOR POWER PURPOSES. ANDRÉ DEFOUR, Peronne, France. Filed Aug. 13, 1926. Serial No. 129,069. 2 Claims. (Cl. 61—20.)



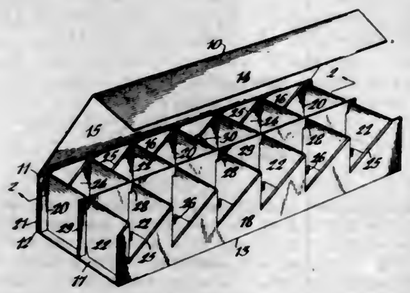
1. A method of utilizing the tides for power purposes consisting in permitting water to flow between the sea and two connected basins at different levels, utilizing the flow of water from the sea to the basin at lower level and from the basin at lower level to the sea for development of power and utilizing flow of water from the basin at higher level to the sea for development of power during all times that water flowing between the basin at lower level and the sea is idle.

1,785,897. ONE-PIECE RIM AND SPIDER STEERING WHEEL. HARVEY D. GEYER, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed Apr. 30, 1928. Serial No. 274,051. 4 Claims. (Cl. 74—33.)



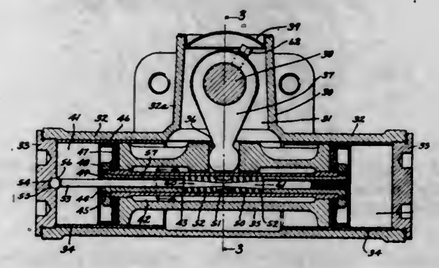
1. A steering wheel having the rim and spokes thereof stamped from a single piece of sheet metal, comprising: a complete tubular rim bent up from flat sheet metal and having a butt joint therein extending around its under side, integral box section spokes radiating from said rim and having a butt joint extending along their under sides, the under side of said rim having a projecting tongue portion where each spoke adjoins said rim which tongues are bent radially inward to close the open outer end of said box section spokes.

1,785,898. EGG CARTON. EDWARD EVERETT HALE, Buffalo, N. Y. Filed Feb. 2, 1929. Serial No. 337,135. 10 Claims. (Cl. 229—29.)



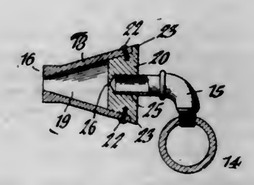
1. A collapsible carton formed from a blank which is cut and creased to provide a bottom, sides, and transverse partitions between the sides connected therewith by folds, the top and bottom edges of the partitions having complemental notches and tongues formed by slitting the same, said notches and tongues interlocking with one another in the collapsed position of the carton and the tongues engaging the bottom of the latter in its unfolded position.

1,785,899. DOUBLE-ACTING SHOCK ABSORBER. GEORGE E. A. HALLETT, Detroit, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed May 21, 1928. Serial No. 279,479. 13 Claims. (Cl. 188—88.)



1. A shock absorber comprising in combination, a casing presenting a fluid chamber, a plunger in said casing having provision permitting the passage of fluid in both directions therethrough, and metering means in said plunger for controlling the flow of fluid in both directions therethrough, said metering means including a stationary member supported by the casing and a cooperating member movably supported in the plunger.

1,785,900. FURNACE BURNER. FRANK X. HAMBERGER, Buffalo, N. Y. Filed Aug. 8, 1928. Serial No. 298,291. 2 Claims. (Cl. 158—99.)

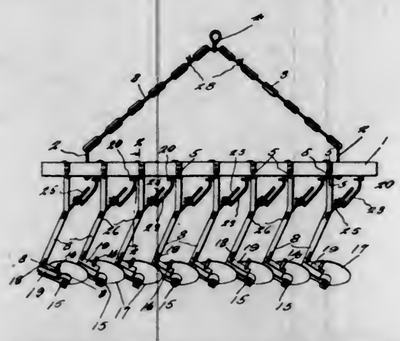


2. A gas burner of the character described, comprising a burner-body containing a forwardly-converging mixing chamber of a smooth uniform taper having an air inlet at its larger end and a mixture outlet at its smaller end, the larger end of said burner-body having a pair of notches therein, and a detachable bridge-bar arranged transversely of the burner-body and having projections at its ends engaging said notches, said bar being adapted for attachment to a gas pipe and containing an orifice for admitting gas to the mixing chamber.

1,785,901. CULTIVATOR. GEORGE HARDIE, Condon, Oreg. Filed Sept. 5, 1929. Serial No. 390,517. 4 Claims. (Cl. 55—30.)

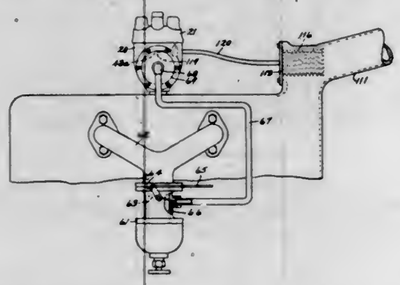
1. An agricultural implement of the character described comprising an elongated beam, a plurality of drawbars pivotally connected to said beam in spaced relation, a rotatable earth working element mounted on the free

end of each of the drawbars, and means connected to each of the drawbars at a point remote from the beam



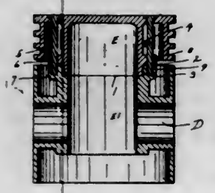
and to said beam for shifting said drawbars in a horizontal plane and for maintaining the same in their adjusted positions.

1,785,902. IGNITION TIMER. FREDERICK J. HARDMAN, Dayton, Ohio, assignor to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed July 5, 1928. Serial No. 290,319. 8 Claims. (Cl. 123—117.)



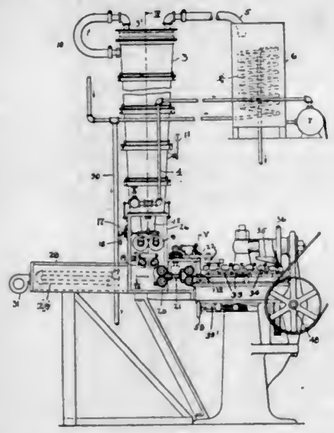
1. Ignition apparatus for internal combustion engines comprising, in combination, a circuit interrupter operated by the engine, and means responsive to engine temperature and to engine speed for varying the time relation between the cycle of engine operations and the cycle of interrupter operations.

1,785,903. PISTON. GLEN P. HEINER, Salt Lake City, Utah. Filed Mar. 18, 1929. Serial No. 347,795. 1 Claim. (Cl. 74—108.)



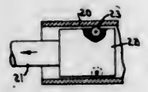
In a removable head piston the combination of a cylindrical skirt having a centrally located vertically split cylindrical member formed therein; a piston head having a centrally located vertically split cylindrical member formed therein; threads on the engaging ends of the two cylindrical members; aligned lugs formed on the outer sides thereof; and bolts adapted to be passed through the top of the piston head and skirt together.

1,785,904. CANDY MOLDING. ROBERT W. HOMPE, Cleveland, Ohio. Filed Apr. 29, 1927. Serial No. 187,592. 9 Claims. (Cl. 107—4.)



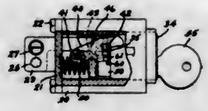
1. In a candy-molding machine, the combination of a die press comprising a plurality of dies adapted to enter corresponding die cavities, and a cutter for each die to sever the stock therefor, each of said cutters being movable with respect to said die cavities.

1,785,905. TOOL FOR SCARIFYING THE INTERIOR OF TUBING. EDWARD P. KERRUISH, Cleveland Heights, Ohio, assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 26, 1926. Serial No. 131,669. 6 Claims. (Cl. 80—1.)



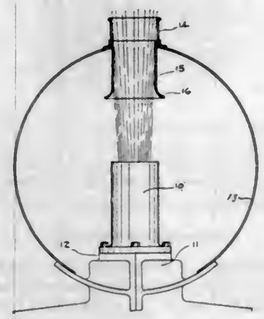
2. A tool for internally scarifying tubular members comprising a shank and a body member carrying cutting teeth, the diameter of said member measured to the external surface of said teeth being slightly greater than the internal diameter of the member to be scarified.

1,785,906. LOCK SWITCH. ALBERT E. KOFFER, Dayton, Ohio, assignor to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed July 21, 1927. Serial No. 207,335. 8 Claims. (Cl. 200—44.)



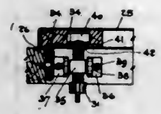
1. A lock switch comprising a cylindrical tubular case, a cover for one end of the case, switch contacts within the case supported by the cover, a controller slidable axially within the case, said controller carrying means for permitting the contacts to complete an electric circuit or for causing the circuit to be interrupted according as the controller moves to a position farthest from the end cover or nearest thereto, respectively, a spring for urging the controller away from the end cover, a latch plate provided by the case, a latch finger movably supported within the case for engaging the latch plate for maintaining the controller in circuit-open position, and key operated means carried by the controller for tripping the latch.

1,785,907. LOCOMOTIVE EXHAUST-STEAM NOZZLE. ARMAND LYMBURNER, Verdun, Quebec, Canada, assignor of one-half to Joseph J. Driscoll, Chicago, Ill. Filed Nov. 30, 1927, Serial No. 236,759. Renewed May 21, 1930. 1 Claim. (Cl. 230—96.)



In a locomotive exhaust steam nozzle, a smoke box, an exhaust manifold for the steam vertically extending into and supporting said smoke box and having an outlet at the upper end, a tubular steam exhaust nozzle projecting upwardly from said manifold and secured thereto around said outlet, a post rigidly secured to said manifold and extending centrally and vertically to the upper end of said nozzle and carrying on its reduced upper end a flaring block cooperating with the cylindrical wall of the nozzle in concentrating the steam discharge within gradually enlarging circles and a stack of approximately even diameter to said nozzle forming an outlet from said smoke box in vertical alignment with said nozzle.

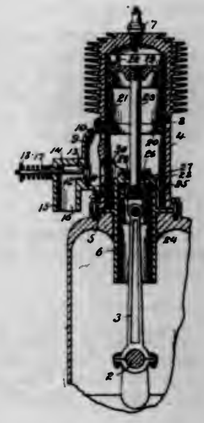
1,785,908. PANEL ROOF FOR CLOSED CARS. EDWARD BOSWELL MALCOLM, Montreal, Quebec, Canada. Filed July 30, 1928. Serial No. 296,320. 1 Claim. (Cl. 296—137.)



A panel roof for closed cars, comprising a closure riding on rails on either side of a roof opening and therebeyond and having corner recesses and slotted plates covering said recesses, corner angle brackets secured to the roof, screw clamps pivotally secured to said angle brackets in a threaded sleeve swinging to and away from said slotted plates and having gripping plates on the ends thereof and rubber packing cooperating with said clamps in maintaining a tight closure.

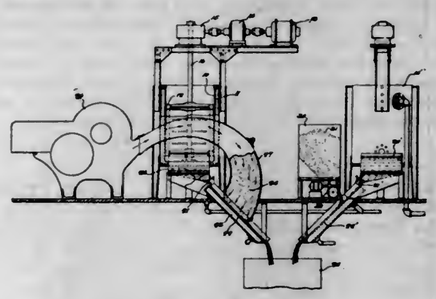
1,785,909. EXPLOSIVE ENGINE. WENDELL R. MCKINNEY, Kansas City, Mo., assignor of one-half to Berr E. Post, Kansas City, Mo. Filed Dec. 5, 1928. Serial No. 323,960. 3 Claims. (Cl. 123—74.)

3. In an explosive engine, a cylinder having a closed end comprising a cross head guide extending into said cylinder and having in its upper end a recess, a plate fastened to said guide and closing said recess, said plate and the bottom of said recess forming unyielding seats, a piston head reciprocative in said cylinder and having a skirt encircling and closely spaced from said guide when said piston head is at the end of its power stroke, a cross head reciprocative on said guide, a piston rod reciprocative through holes provided respectively in said guide and said plate, and a packing collar tightly and slidably fitted on said rod in said recess and reciprocative with said piston rod to positions in which it will alternately bear against



said seats, said packing collar having less thickness and less diameter than the depth and diameter respectively of said recess, said packing collar having one or more internal annular peripheral oil receiving grooves.

1,785,910. METHOD OF MIXING COTTON FIBER AND BITUMINOUS MATERIALS. CARL P. NELLIS and ARTHUR H. FLOWER, Dayton, Ohio, assignors to The Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed Apr. 30, 1928. Serial No. 274,016. 6 Claims. (Cl. 106—31.)

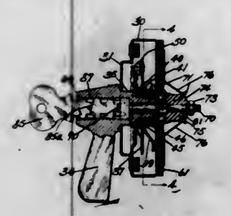


1. A process of forming a moldable plastic compound of bituminous material, fibrous material, and a finely divided filler material comprising: melting a lower melting point bituminous material, separately melting a higher melting point bituminous material, passing said first molten material in a relatively flat stream into a container and simultaneously distributing fibrous material upon said flat stream, passing said second molten material in a relatively flat stream into said container and simultaneously adding finely divided filler into said stream, and then kneading the combined materials to form a substantially homogeneous mixture.

1,785,911. ELECTRIC SWITCH. HARRY E. NORVIEL, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Apr. 1, 1924. Serial No. 703,557. 11 Claims. (Cl. 200—168.)

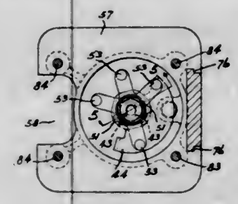
1. In an electric switch having a movable contact carrying member, a yieldable detent supported on said movable

member and movable therewith, a switch housing formed of pressed sheet metal and housing said movable member, a wall of said housing having corrugations formed therein



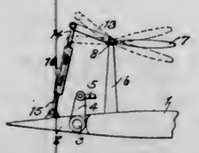
from the sheet metal to form recesses for said detent whereby said movable member is located in any one of a plurality of positions.

1,785,912. ELECTRIC SWITCH. HARRY E. NORVIEL, Anderson, Ind., assignor to General Motors Corporation, a Corporation of Delaware. Filed Aug. 12, 1924. Serial No. 731,691. 5 Claims. (Cl. 200—168.)



1. A circuit controlling device for motor vehicles, including a steering wheel secured to one end of a tubular steering column; a housing in which the other end of the steering column is journalled, said housing enclosing the steering gear, and having an apertured arm extending therefrom, split so as to be contractible; a switch including a housing provided with a shank adapted to extend into the said apertured arm; and means on said arm for contracting it to grip the shank tightly.

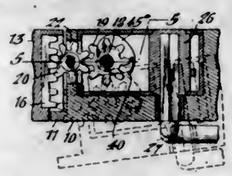
1,785,913. STEERING AIRCRAFT. ALBERT PRESSER, Friedrichshafen-on-the-Bodensee, Germany, assignor to the Firm Dornier-Metallbauten, G. m. b. H., Friedrichshafen-on-the-Bodensee, Germany. Filed July 6, 1928, Serial No. 290,778, and in Germany Feb. 15, 1928. 8 Claims. (Cl. 244—29.)



1. Flying machine comprising a wing, a rudder pivotally connected with said wing, a movable auxiliary surface, means connecting said surface with said wing, and with said rudder, respectively, and means for varying the length of one of said connecting means.

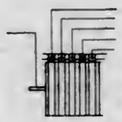
1,785,914. DOOR LATCH. PETER S. RIEL, Buffalo, N. Y. Filed Nov. 8, 1927. Serial No. 231,904. 20 Claims. (Cl. 292—280.)

1. In a door latch, the combination with a door and its frame, of toothed latching elements applied to the door and to the frame for rolling contact one over the other, and means for effecting the automatic operation of one of



said elements relative to the other to fully close the door after the same has been moved to a predetermined partially closed position.

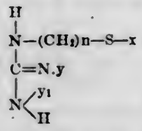
1,785,915. SOUND-REPRODUCING INSTRUMENT. FRANK MORSE ROBB, Belleville, Ontario, Canada. Filed Sept. 29, 1927. Serial No. 222,806. 1 Claim. (Cl. 179—100.2.)



In a sound reproducing instrument, a plurality of rotatable records suitably driven and formed of conducting material with undulatory grooves representing a plurality of musical scale tones, a plurality of electrodes in set positions in relation to said grooves and adapted to vary a current in agreement with the varying distances of the undulations from the electrodes during the rotation of the records, switches operated by key stop or pedal and electrical circuits individual to said switches and records commonly oscillated and developing the sound emanating from said variations through electrical translating devices.

1,785,916. SULPHUR CONTAINING GUANIDINE DERIVATIVES AND PROCESS OF MAKING SAME. HERBERT SCHOTTE, Berlin-Wilmersdorf, Germany, assignor to Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Filed Aug. 8, 1927, Serial No. 211,619, and in Germany Aug. 4, 1926. 4 Claims. (Cl. 260—125.)

1. As a new composition of matter, the sulphur-containing guanidine derivatives having the general formula

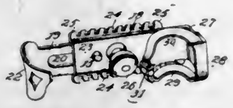


in which n is a whole number x may be either hydrogen or the complex of atoms illustrated by the part of the above formula to the left of the sulphur atom, and y and y_1 either hydrogen or acyl radicals, such compounds being adapted to be oxidized and being non-resistive against concentrated alkaline solutions and incapable of being distilled.

1,785,917. RECIPROCATING-ACTION SAFETY RAZOR. JACOB H. SCHUSTER, St. Louis, Mo. Filed Oct. 28, 1929. Serial No. 402,840. 4 Claims. (Cl. 30—12.)

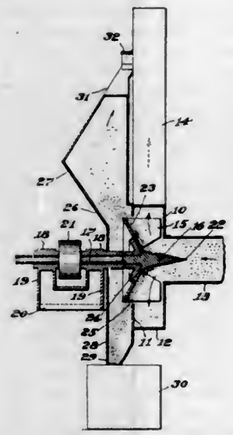
1. A reciprocating razor comprising a base member, a center post and a lug formed thereon, the under surface

of said base member provided with parallel curvilinear grooves, a razor blade positioned on the base member and supported by the post and stud, a slotted sliding member positioned on the razor blade and guided by the post and stud, an upturned finger grip formed on the end of said



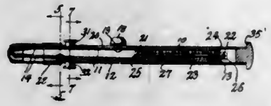
sliding member, a top member positioned over the sliding member, its side edges bent downwardly and formed into teeth, an adjustable loop member formed on the top member, and a lock nut positioned on the post for holding the parts in assembled position, substantially as specified.

1,785,918. COMBINED FAN AND CLASSIFIER. ALBERT H. STEBBINS, Los Angeles, Calif. Filed Sept. 13, 1928. Serial No. 305,648. 8 Claims. (Cl. 183—77.)



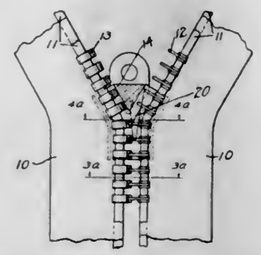
1. A combined fan and classifier comprising in combination, a fan casing having an air inlet opening formed in its front wall to receive material laden air and having a material discharge opening adjacent its rear wall and an air discharge opening, a fan supported to rotate within the casing and provided with fan blades and a tapered core having an outwardly flaring annular flange that extends rearwardly through said rear wall and constructed so that the heavier particles sucked into the casing with the air will strike against the outwardly flaring flange and travel along the same toward the material discharge opening while the air from which the heavier materials are removed is forced by the fan through said air discharge opening, and a collecting receptacle communicating with the fan casing to receive the heavier materials discharged from the fan casing.

1,785,919. TWEEZERS. CHARLES W. STICKEL and WILLIAM R. TUTTLE, Rochester, N. Y. Filed Dec. 6, 1928, Serial No. 324,080. Renewed May 13, 1930. 14 Claims. (Cl. 128—354.)



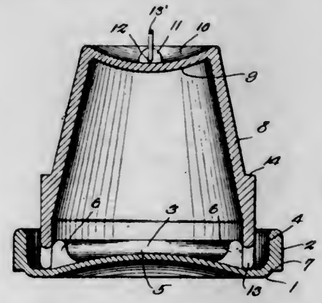
1. A tweezers comprising a support, a pair of jaws mounted for forward and backward movement on said support, spring means for moving said jaws backwardly, and manually releasable detent means for holding said jaws in a forward position on said support.

1,785,920. SEPARABLE FASTENER. GIDEON SUNDBACK, Meadville, Pa., assignor to Hookless Fastener Company, Meadville, Pa., a Corporation of Pennsylvania. Original application filed Feb. 14, 1925, Serial No. 9,087, and in Canada Feb. 6, 1926. Divided and this application filed Mar. 9, 1928. Serial No. 260,493. 6 Claims. (Cl. 24—205.)



1. A slide type fastener comprising a pair of stringers having a plurality of pairs of opposed locking members, one member of each pair having flat flanges and the other member of each pair having resilient projections flexed toward each other with free ends bent substantially at right angles to grip opposite edges of said flanges, and means on said flanges to prevent longitudinal separation of said members.

1,785,921. POULTRY FOUNT. WALTER W. THOMPSON and EDELBERT RUSSELL, Macomb, Ill. Filed Nov. 4, 1929. Serial No. 404,742. 2 Claims. (Cl. 119—77.)



1. A device of the class described including a pottery base having elevated concentric inner and outer portions forming an annular trough therebetween, there being a recess at the lowest part of the inner portion draining downwardly into the trough, a pottery container for liquid adapted to receive and fit snugly upon the inner upstanding portion of the base, said container having a recess in its edge movable about the inner upstanding portion and into and out of register with the recess in said portion.

1,785,922. METHOD OF MAKING CLOTH STENCILS FOR MULTICOLOR WORK. ROGER TULL, Los Angeles, Calif., assignor to Western Lthograph Company, Los Angeles, Calif., a Corporation of California. Filed Feb. 11, 1928. Serial No. 253,764. 1 Claim. (Cl. 101—129.)

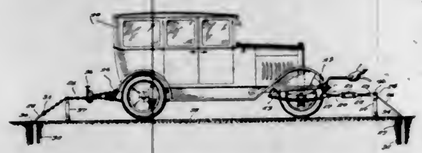
The method of making cloth stencils for multi-color work consisting in making a photographic positive plate

and negative plate from the colored original that is to be reproduced, making photographic prints on sensitized bolting cloth from the positive and negative plates, blocking out on the print from the positive plate an area that is to be impervious to paint and that corresponds to one



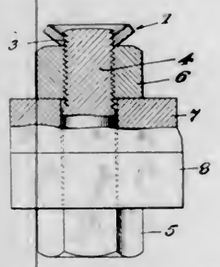
of the colors that photographed dark on the positive plate, and blocking out on the print from the negative plate an area that is to be impervious to paint and that corresponds to one of the colors that photographed dark on the negative plate.

1,785,923. STRAIN-APPLYING DEVICE FOR METALLIC MATERIAL. PERCY WADE, Washington, D. C., assignor to The Weldit Company, Washington, D. C. Filed Nov. 1, 1929. Serial No. 404,158. 3 Claims. (Cl. 153—32.)



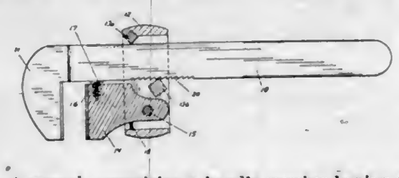
1. A device of the character described comprising a clevis member adapted to be removably secured to a distorted portion of the frame of an automobile, means for restraining the movement of the automobile, means for anchoring said member, a member interposed between said clevis member and said anchoring means and connected to the latter, means connecting said clevis member and the interposed member whereby a strain may be applied to said distorted portions and means adapted to position the last-named means whereby the strain is exerted in a plane parallel to the horizontal plane of said frame.

1,785,924. MECHANICAL LOCK AND LOCKING METHOD. WYLIE G. WILSON, Elizabeth, N. J., assignor to Wilson Rings Company, Jersey City, N. J., a Corporation of New Jersey. Filed Dec. 18, 1928. Serial No. 326,795. 8 Claims. (Cl. 151—30.)



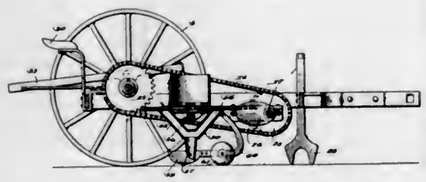
5. A clamping member comprising a deformable body formed with a central aperture, the material of the body adjacent the aperture being in the form of a frustum of a cone so shaped that if cross-sections are taken on a succession of planes above the threaded aperture and parallel to the base of the frustum, each cross-section will form a circle, the wall of the aperture being cut with screw threads for cooperation with the screw threads of a bolt, the member being adapted to be clamped on the bolt by flattening the body to thereby constrict the aperture and cause the member to grip the bolt.

1,785,925. WRENCH. JAMES C. BAKER, Lincoln, Nebr., assignor of one-third to R. L. Davis, Sr., and one-third to A. J. Ohler, Lincoln, Nebr. Filed Apr. 30, 1929. Serial No. 359,291. 2 Claims. (Cl. 81—97.)



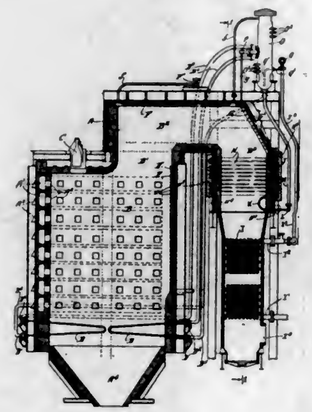
1. A wrench comprising a handle member having a fixed jaw on its outer end, a slotted bar loosely mounted across the handle member, a fixed dog in the back of the bar opposite the rear edge of the handle member, a second fixed dog in the front of the bar opposite the forward edge of the handle member, said dogs being offset relative to the length of the bar and spaced apart a distance to free the bar for slidable adjustment lengthwise on the handle member when the front end of the bar is canted toward the fixed jaw and to bind the dogs against the respective rear and forward edges of the handle member when the bar is swung at its front end away from the fixed jaw, a movable jaw yieldably mounted on the forward end of the bar opposite the fixed jaw, the movable jaw having a shank pivotally mounted in the front end of the bar and extending forwardly therefrom, a spring in the forward end of the bar between the latter and the forward edge of the shank for yieldably urging the movable jaw toward the forward edge of the handle member, and a spring pressed headed pin carried at the inner edge of the movable jaw for slidable engagement against the forward edge of the handle member to normally urge the movable jaw outwardly against said first spring and yieldably maintain the bar in locked position.

1,785,926. SEED PLANTER. LANDON BATCHELOR, Lawrenceburg, Ind. Filed July 8, 1929. Serial No. 376,787. 6 Claims. (Cl. 111—34.)



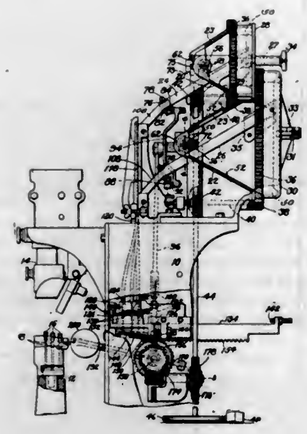
1. In a seed planter an axle, wheels on said axle, a frame supported by said axle, a cam carrying shaft mounted to rotate in said frame, a driving connection between the axle and said shaft, a seed hopper having a slide way in its under surface, a discharge spout located beneath said hopper, a seed drop slide mounted to travel in said slide way, and comprising a plate having apertures to alternately register with the hopper and the discharge spout, said plate having longitudinally slotted brackets for the passage therethrough of the cam shaft and a bifurcated portion to receive a cam, with rollers at the ends of said portion against which the periphery of the cam engages to reciprocate the drop slide on the revolving of the wheels.

1,785,927. HIGH-PRESSURE BOILER. JOHN E. BELL, Brooklyn, N. Y.; Lola R. Bell executrix of said John E. Bell, deceased. Filed Apr. 16, 1924. Serial No. 706,851. 17 Claims. (Cl. 122—235.)



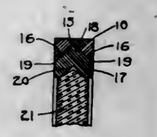
1. Steam generating apparatus comprising a chamber, a bank of horizontally disposed water tubes located in said chamber, a steam and water space, means connecting said tubes and space in a circulating system through which water passes downward from said space to tubes at the bottom of said bank, and thence upward through tubes located at successively higher levels, and thence back to said space through vertically disposed tubular elements located in the upper portion of said chamber, and means for passing heating gases into the upper end of said chamber and thence downwardly over the tubes.

1,785,928. NAILING MACHINE. JOHN M. BENJAMIN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 24, 1924. Serial No. 745,684. 16 Claims. (Cl. 1—32.)



1. In a nailing machine, nailing mechanism, a nail-distributor having a movable discharge device, movable means for transferring nails from the distributor to the nailing mechanism, power mechanism, and means driven independently of each other by the power mechanism for moving respectively the discharge device and transferring means.

1,785,929. OPHTHALMIC MOUNTING. SAMUEL E. BOUCHARD, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Nov. 8, 1928. Serial No. 317,988. 2 Claims. (Cl. 88—47.)



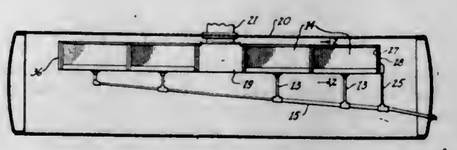
1. An ophthalmic mounting comprising in combination a metallic rim having a groove on its inner circumference, a flat, annular shoulder portion on said inner circumference on each side of said groove, a non-metallic rim having a circumferential projection and a flat, annular shoulder portion on each side of said projection, said projection being seated in said groove and the shoulder portions on said metallic rim being in contact with the shoulder portions on said non-metallic rim.

1,785,930. RESINOUS COMPOSITION AND PROCESS OF MAKING SAME. THEODORE F. BRADLEY, Westfield, N. J., assignor to Ellis-Foster Company, Montclair, N. J., a Corporation of New Jersey. Filed June 5, 1925. Serial No. 35,264. 31 Claims. (Cl. 260—8.)

6. A process which comprises heating a mixture of glycerol, phthalic anhydride and castor oil to a temperature greater than 200° C., and not above 300° C.

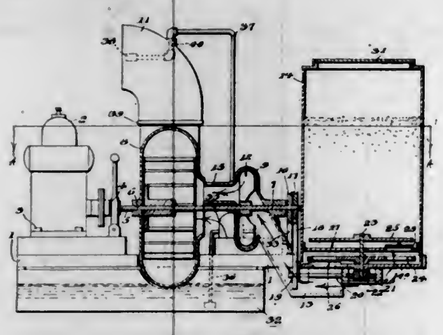
20. A resinous composition made by simultaneously chemically combining a polybasic acid, a monobasic acid, a polyhydric alcohol and a glyceride of a hydroxylated fatty acid having an acid number not substantially over 30 and which is both miscible and compatible with nitrocellulose.

1,785,931. FLUID SEPARATOR. GRANT D. BRADSHAW, Pittsburgh, Pa., assignor to Blaw-Knox Company, Blawnox, Pa., a Corporation of New Jersey. Filed Aug. 8, 1927. Serial No. 211,286. 6 Claims. (Cl. 183—111.)



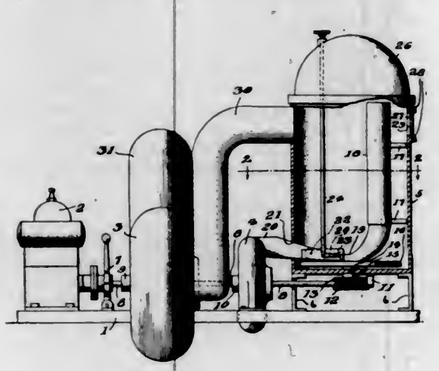
1. A fluid separator comprising a water chamber, a drain pipe communicating with said chamber, an end plate mounted in one end of the separator and having two openings therethrough communicating with said chamber, a second end plate having a forked passageway therein, said second plate being fixed to said first mentioned plate with the branches of the forked passage communicating with the respective openings, and means providing communication between said drain pipe and said forked passageway.

1,785,932. DUSTING AND SPRAYING MACHINE. ARTHUR J. BROWN, New York, N. Y., and RICHARD R. EZDORF, Washington, D. C. Filed July 20, 1929. Serial No. 379,795. 5 Claims. (Cl. 43—148.)



1. A spraying machine in which a powder is mixed with air, the mixture passed through an auxiliary fan and thence through an exhaust fan to a point of discharge and at said latter point injecting a liquid into the mixture.

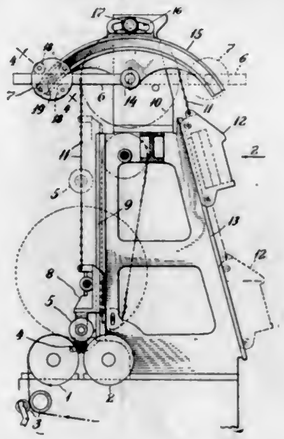
1,785,933. DUSTING MACHINE. ARTHUR J. BROWN, New York, N. Y., and RICHARD R. EZDORF, Washington, D. C. Filed July 20, 1929. Serial No. 379,799½. 6 Claims. (Cl. 43—148.)



1. In a dusting machine, a powder container, means in the bottom of the container for moving powder in a predetermined plane, fluid means for removing the powder from the upper surface of said first named means, a pipe for conducting the powder and fluid into the upper section of the container and means for extracting the fluid and powder from the container and discharging the same onto the area being treated.

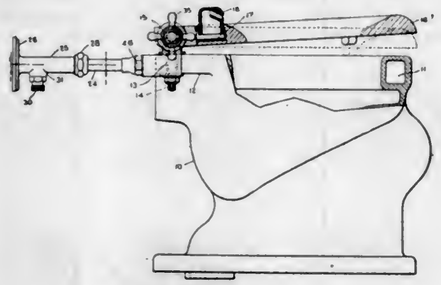
1,785,934. COUNTERWEIGHTING DEVICE FOR WINDING MACHINES. JAMES A. CAMERON, Brooklyn, N. Y., assignor to Cameron Machine Company, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 18, 1928. Serial No. 313,277. 15 Claims. (Cl. 242—66.)

1. In a winding machine, a member upwardly displaceable by accumulation of wound material, and counterweighting means for said member including: a pivoted arm, means to turn said arm on its pivot in response to



the displacement of the member, a weight on the arm and means to move the weight lengthwise of the arm in response to the turning movement of the arm.

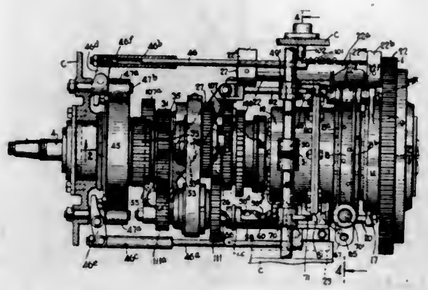
1,785,935. VALVE AND SEAT COMBINATION FOR BIDET CONTROL. CESARE C. CAMPUS, Santa Monica, Calif. Filed Jan. 25, 1929. Serial No. 335,011. 10 Claims. (Cl. 4—7.)



2. In a bidet apparatus and the like. a discharge nozzle, a supply conduit, the said nozzle and conduit being connected and rockable to and from positions for the use and non-use of the nozzle, valve means for controlling the admission of water to the said supply conduit, a valve, and means for normally maintaining the said valve against its seat and holding the said nozzle and supply conduit in a non-use position of the nozzle and by which means the said valve is opened when the nozzle is in position for use, whereby the nozzle must be in position for use while in such position the said valve means must be operated to effect a flow of water to the said nozzle.

1,785,936. VARIABLE-SPEED TRANSMISSION. HARRY A. COLE, New York, N. Y., assignor to Cole Service Plan, Inc., a Corporation of New York. Filed May 13, 1930. Serial No. 451,914. 15 Claims. (Cl. 74—34.)

1. A planetary speed transmission system for a shaft having gear means located thereon, comprising a driving shaft, a plurality of planetary shafts mounted on said driving shaft so that said planetary shafts rotate in unison with said shaft, planetary gears mounted upon said planetary shafts, and in continuous mesh with said gear means, said planetary shafts having additional gears mounted thereon, a plurality of sleeves concentrically mounted upon said driving shaft and upon each other and having teeth which are in continuous mesh with said



additional gears, and a control sleeve mounted for longitudinal movement with respect to said driving shaft, said sleeve being adapted to selectively and individually interlock with a plurality of said sleeves and to also simultaneously interlock with a plurality of said sleeves.

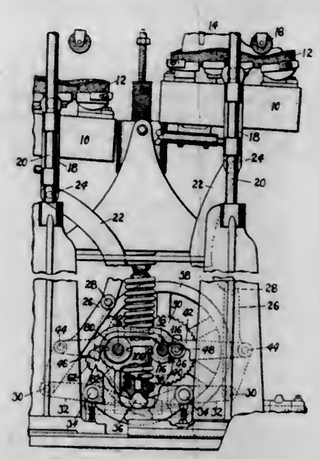
1,785,937. PILE FABRIC AND METHOD OF MAKING THE SAME. MELVILLE G. CURTIS, Cynwyd, Pa., assignor to Collins & Aikman Corporation, Philadelphia, Pa., a Corporation of Delaware. Filed Nov. 22, 1927. Serial No. 235,060. 12 Claims. (Cl. 28—1.)



1. The method of making pile fabric which comprises utilizing the backing of a pile fabric as a matrix to position and hold the fibres of the pile, embedding the tips of the pile in an adherent material adapted for solidification into a backing, and splitting the pile to form a plurality of fabrics.

1,785,938. SHOE-PRESSING MACHINE. ALSON H. DAVIS, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 8, 1929. Serial No. 398,251. 7 Claims. (Cl. 12—36.)

1. In a machine of the class described, the combination with mechanism for applying pressure to the bottoms of shoes, and power-driven means including a friction clutch for operating said mechanism to apply the pressure, of a clutch-controlling member movable in different directions respectively to start the machine and to stop it with a shoe under pressure, means for moving said member to stop the machine comprising a resilient device so constructed and arranged as to yield initially upon engagement with said member prior to its normal action to stop the machine and to assume finally by its resiliency a position out of the path of starting movement of the member, and means for insuring against movement of the clutch-

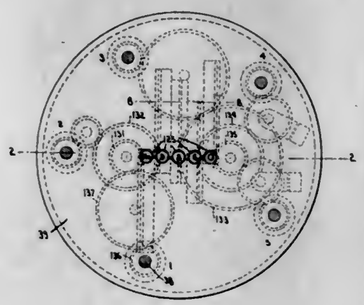


controlling member by said device until the pressure-applying mechanism has arrived substantially in its normal stopping position.

1,785,939. BATTERY-PLATE BUILDING. HENRY P. DODGE, Toledo, Ohio, assignor to Luthy Battery Equipment Company, San Antonio, Tex., a Corporation of Texas. Filed May 11, 1925. Serial No. 29,620. 5 Claims. (Cl. 136—27.)

1. In the production of a uniformly porous secondary battery plate filler, grinding of exhausted lead battery plates by directly subdividing said unmelted plates, making a paste directly from said plate grindings, forcing said paste into a battery plate skeleton, and the creation of voids in the plates by charging.

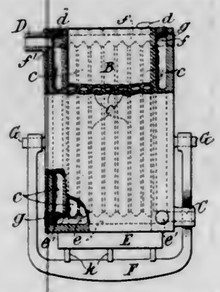
1,785,940. RAILROAD CODE-TRANSMITTING DEVICE. STANTON ENNES, Cleveland, Ohio. Filed Dec. 22, 1924. Serial No. 757,364. 2 Claims. (Cl. 177—380.)



1. In a device of the character described, the combination with a casing of a rotatable contact maker, a plurality of cylinders mounted in the circuitous path thereof, each said cylinders being adjustable and having a plurality of code indented segments adapted to engage said contact maker to transmit signals, indicating means corresponding to each said cylinders and having indicia thereon relating to the several code indentations of the segments, a series of contiguous sight apertures in said casing through which said indicia are visible and indi-

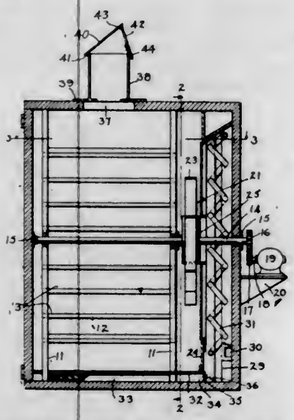
vidual adjusting means for each cylinder, said last named means being externally accessible and having means adapted to adjust the relation of said indicating means with respect to its corresponding cylinder.

1,785,941. MOLD FOR CASTING METALS. WILLIAM F. EPPENSTEINER, Rahway, N. J., assignor, by mesne assignments, to The American Metal Company, New York, N. Y., a Corporation of New York. Filed Mar. 6, 1929. Serial No. 344,672. 3 Claims. (Cl. 22—177.)



1. An integral weldless mold comprising solid walls enclosing a parallel casting cavity open at both ends, and having parallel passages through such walls, and with a water inlet and outlet communicating with said passages, whereby cooling water may be circulated through such passages to cool the mold.

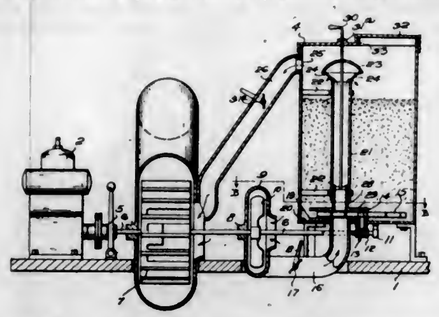
1,785,942. INCUBATOR. PETER J. ETTELDORF, Quincy, Ill. Filed Oct. 21, 1926. Serial No. 143,268. 9 Claims. (Cl. 119—35.)



1. In an incubator comprising a compartment and trays for eggs therein, a source of heat, and means including an impeller and a baffle with blades each radiating from a common center, said baffle coacting with said impeller through the pitch of said blades and direction of impeller rotation to cause air heated by said source to be drawn through said baffle to enter said compartment for affecting the eggs in said trays and prevented from passage through said baffle to leave said compartment.

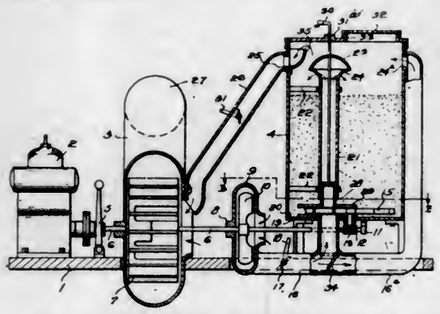
1,785,943. AGRICULTURAL DUSTING MACHINE. RICHARD R. EZDORF, Washington, D. C., and ARTHUR J. BROWN, New York, N. Y. Filed Feb. 6, 1929. Serial No. 337,771. 6 Claims. (Cl. 43—148.)

1. In a dusting machine, a material container, means for introducing predetermined quantities of air into the lower extremity of the container, means in the container adjacent the point of the introduction of said air for mixing therewith predetermined quantities of pulverulent



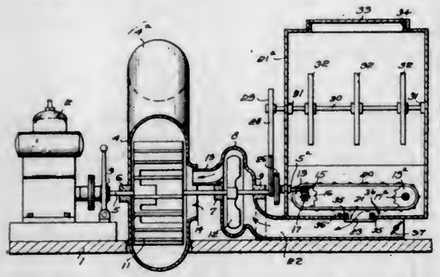
material, means whereby the mixture is conveyed into a separation chamber in the upper section of the container, a discharge port in said chamber and means for discharging the mixture from the container.

1,785,944. BROADCAST DUSTER. RICHARD R. EZDORF, Washington, D. C., and ARTHUR J. BROWN, New York, N. Y. Filed Feb. 6, 1929. Serial No. 337,772. 4 Claims. (Cl. 43—148.)



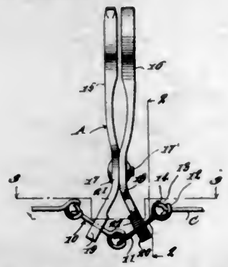
1. In a dusting machine, a material container, means for simultaneously introducing air into the lower and upper sectors of the container.

1,785,945. DUAL FAN-DUSTING MACHINE. RICHARD R. EZDORF, Washington, D. C., and ARTHUR J. BROWN, New York, N. Y. Filed Mar. 7, 1929. Serial No. 345,211. 3 Claims. (Cl. 43—148.)



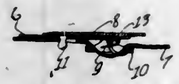
1. In a dusting machine the combination of an exhaust fan, a suction fan adapted to discharge into the intake side of said exhaust fan, means for controlling the intensity of suction into said second named fan, a material container, and means for controllably discharging materials from the container into the suction area of said second named fan.

1,785,946. CHAIN PLIERS. FRANK F. FOX, Fedora, S. Dak. Filed Feb. 16, 1929. Serial No. 340,568. 2 Claims. (Cl. 29—86.2.)



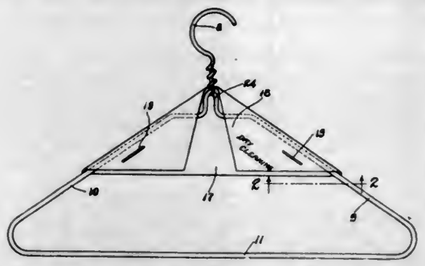
1. A tool for assembling or taking apart a sprocket chain of the type, wherein the adjacent links are moved in angular relation relative to one another to aline the body portion of one link with a slot in the hinge barrel of the adjacent link, said tool comprising a pair of pivotally connected handles, and jaws carried by the forward ends of the handles in advance of the pivot point thereof arranged on opposite sides of the longitudinal center of the tool and out of alinement with one another on opposite sides of a line at right angles to the pivot point of the handles so as to engage a pair of adjacent links on opposite sides of the pivot point thereof, the inner faces of the jaws being serrated for engagement with said links.

1,785,947. FASTENING MEANS FOR BELTS. RALPH S. FOWLER, San Francisco, Calif. Filed Dec. 26, 1928. Serial No. 328,483. 1 Claim. (Cl. 241—8.)



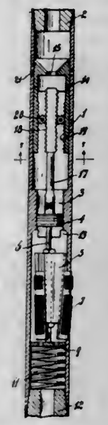
In a device of the character described, a belt having a buckle secured to one end thereof and having a bar upon its rear side, a plate secured to the opposite end of said belt, said plate being in a plane parallel to the end of the belt to which it is attached, said plate having a curved hook formed integral therewith and adapted to engage said bar and a stud secured to said plate and projecting through both ends of the belt for the purpose specified.

1,785,948. ADVERTISING DEVICE. FRANK J. GARRETY, Cincinnati, Ohio. Filed Jan. 18, 1928. Serial No. 247,564. 7 Claims. (Cl. 40—20.)



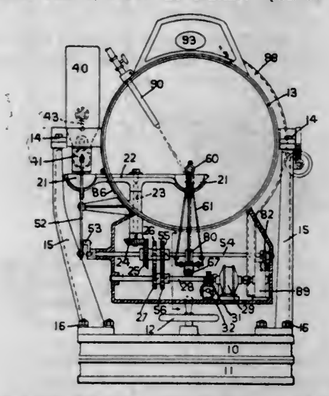
1. The combination of a garment hanger having downwardly and outwardly divergent arms, a quadrilateral sheet of material turned upon itself whereby to provide a substantially triangular advertising panel and a pair of flaps comprising auxiliary advertising panels, said flaps being foldable over the arms of the hanger and means to secure the flaps to the triangular panel whereby to retain the sheet in position upon the hanger.

1,785,949. HYDRAULIC EXPANDING UNDERREAMER. WILLIS C. GEORGE, Long Beach, Calif. Filed Dec. 5, 1928. Serial No. 323,912. 9 Claims. (Cl. 255—74.)



1. A hydraulic expanding reamer comprising a barrel, a plurality of cutters mounted in said barrel, hydraulic means operably connected to said cutters and adapted to expand the same, and spring means urging the cutters into contracted position, and hydraulically actuated means connected to said cutters and adapted to contract said cutters.

1,785,950. SEARCHLIGHT. ETTORE F. GIANNATTASIO, New York, N. Y. Filed Oct. 6, 1927, Serial No. 224,301. Renewed Jan. 6, 1930. 15 Claims. (Cl. 67—31.)

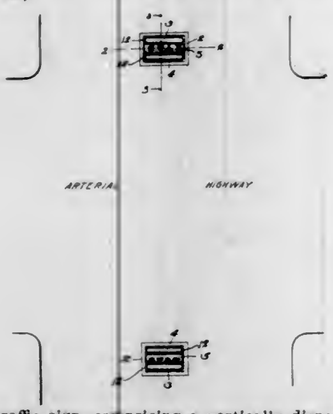


12. In a searchlight, a plurality of cups for containing combustible material, means for alternately rotating said cups through the wall of said light and maintaining said cups stationary, means for filling said cups with combustible material while stationary, electrical means for igniting said material while said cup is stationary, and means for moving said cup to material dumping position as said cup is passed through said wall.

1,785,951. MANUFACTURE OF TRIARYL PHOSPHATES. WILFRID GIBSON, CHARLES ROYSTON HENSHAW, and JOSEPH BARON PAYMAN, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, London, England. Filed Sept. 7, 1929, Serial No. 391,108, and in Great Britain Sept. 27, 1928. 2 Claims. (Cl. 260—98.)

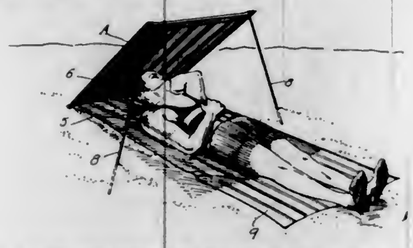
1. The process of manufacturing triaryl phosphates which comprises reacting on a phenolic body with phosphorus oxychloride in presence of dimethylaniline.

1,785,952. SAFETY STOP SIGN. HARVEY D. GRIGGS and JOHN B. SUBIRA, San Antonio, Tex., assignors of one-half to Charles A. Smith, San Antonio, Tex. Filed Oct. 19, 1929. Serial No. 400,858. 3 Claims. (Cl. 40—125.)



1. A traffic sign, comprising a vertically disposed housing adapted to be sunk flush with a roadway, a pair of parallel spaced apart guide rollers secured to the upper marginal edge portion of said housing and rotatably mounted therein and lying in the horizontal plane of said roadway, a vertical yieldable trip member mounted between said guide rollers to project normally above the surface of said roadway and to telescope with said housing, said trip member being yieldably mounted so as to sink to the level of said roadway when depressed by the load of a passing vehicle and having traffic-directing indicia thereon.

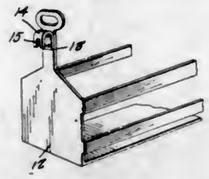
1,785,953. BEACH REST AND SUNSHADE. GEORGE HANAN, Brooklyn, N. Y. Filed Jan. 30, 1929. Serial No. 336,166. 2 Claims. (Cl. 5—344.)



1. A combined beach rest and sun shade of the character described comprising a substantially rectangular skeleton frame including a substantially U-shaped member having eyes on its opposite end and a rod disposed through the eyes and extending outwardly therefrom, heads on the opposite ends of the rod, supporting arms loosely connected to the opposite end portion of the rod intermediate the heads and the eyes, and a single length of fabric having an intermediate portion looped around the closed end portion of the U-shaped member and stitched together, one end portion of the fabric extending over the frame and being looped around the rod and stitched together in a manner to provide a sun shade and the opposite end portion of the fabric adapted to extend outwardly beneath the sun shade in a manner to constitute a mat.

1,785,954. DISPENSING REFRIGERATOR. FREDERICK S. HAYES, Meridian, Miss. Filed June 26, 1929. Serial No. 373,867. 1 Claim. (Cl. 312—36.)

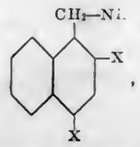
In refrigerating and dispensing apparatus of the class described, a casing, circular members mounted for rotation upon opposite side walls of the casing, means for imparting rotary motion to said members, in unison, an annular series of studs projecting from the inner face of each member, the studs of the two members being correspondingly spaced, trays to contain the products to be refrigerated, a handle member extending upwardly from



each end of each tray, and a suspension member associated with each handle member and comprising an attaching portion secured to the respective handle member and a portion connected with the attaching portion by a bend and spaced with respect to said portion and provided with a notch in its free end for engagement with a respective one of said studs.

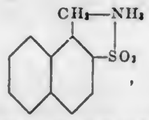
1,785,955. 1-ω-AMINOMETHYL-NAPHTHALENE SULPHONIC ACIDS. WILHELM HERZBERG, Berlin-Wilmersdorf, and HANS LANGE, Dessau in Anhalt, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Dec. 17, 1929, Serial No. 414,815, and in Germany Mar. 24, 1927. 2 Claims. (Cl. 260—129.)

1. The new 1-ω-aminomethyl-naphthalene-sulphonic acids which in the state of free acids correspond to the general formula



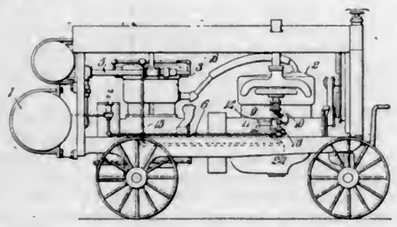
at least one X standing for SO_3H, colorless compounds, forming sodium salts easily soluble in water.

2. The new 1-ω-aminomethyl-naphthalene-2-sulphonic acid which in the state of the inner salt corresponds to the formula



forming colorless crystals sparingly soluble in water, the sodium salt being easily soluble in water.

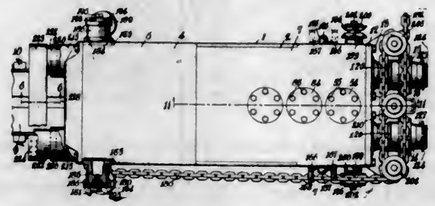
1,785,956. CONTROLLING MECHANISM. FRED D. HOLDSWORTH, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 27, 1927. Serial No. 242,922. 16 Claims. (Cl. 230—3.)



2. The combination with a compressor and an internal combustion driving engine therefor, of controlling means

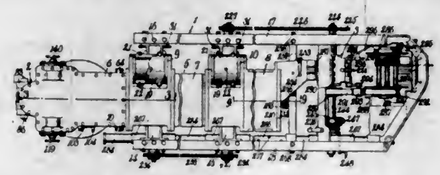
for said engine comprising a cylinder, a piston therein, means controlled by compressor discharge pressure for supplying fluid to said cylinder, a throttle for said engine, operative connections between said throttle and said piston, a manually operable control for said throttle, and a one way motion transmitting connection between said manual control and said throttle.

1,785,957. MINING MACHINE. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Mar. 14, 1925, Serial No. 15,615. Renewed June 29, 1929. 175 Claims. (Cl. 262—30.)



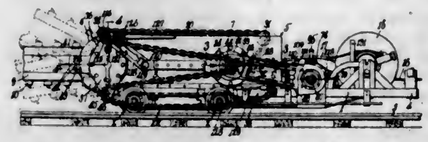
1. In a mining machine, a driving motor, and feeding means driven from the rear end thereof including a feed operating member rotatable on an axis extending longitudinally of the machine and adapted to cooperate directly with flexible feeding means, and power transmission means connected with said feed operating member including a worm gear disposed coaxially with said member.

1,785,958. MINING MACHINE. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Apr. 2, 1926. Serial No. 99,264. 82 Claims. (Cl. 262—28.)



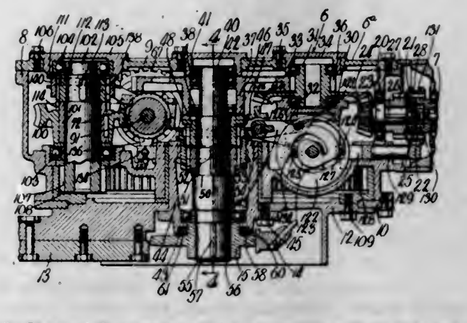
44. In a mining machine, supporting means, a machine body thereon hinged to swing about an axis extending longitudinally of said supporting means and offset from the longitudinal axis of said body, a motor carried by said body, cutting mechanism carried by said machine body, means driven by said motor for swinging said body about its hinge to vary the position of said cutting mechanism.

1,785,959. MINING APPARATUS. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Apr. 13, 1926, Serial No. 101,816. Renewed June 18, 1929. 63 Claims. (Cl. 262—28.)



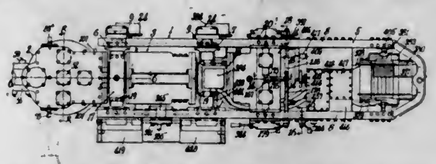
1. In a mining apparatus, a wheeled truck, cutting mechanism thereon including a relatively movable cutter bar and a motor, means driven by said motor including gearing providing a substantial speed reduction and, driven by said gearing, a common transmission element for driving the wheels of said truck at a cutting speed in opposite directions without reversal of said motor and for moving said cutter bar relative to said truck at a cutting speed, and separate members engaging said transmission element, one of said members constituting a driving member for the truck wheels while the other member constitutes a member for moving said cutter bar.

1,785,960. MINING MACHINE. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed May 17, 1926. Serial No. 109,740. 28 Claims. (Cl. 262—28.)



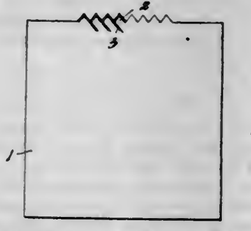
1. In a mining machine, the combination with a swingable cutter chain carrying cutter bar, of a cutter chain controlling clutch, a cutter bar swing controlling clutch, and a common control for said clutches.

1,785,961. MINING MACHINE. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Sept. 24, 1926. Serial No. 137,600. 177 Claims. (Cl. 262—28.)



116. In a mining machine, a wheeled support, a machine body rotatably mounted thereon, a cutter carrying head carried by said body, a motor in said body, and mechanisms driven by said motor for elevating and tilting said body, for rotating said body, and for driving the wheels of said support including selectively operative coaxial fast and slow speed worm gears through which all of said mechanisms are driven.

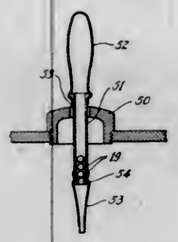
1,785,962. HANDKERCHIEF. WALLACE O. LINE, Cleveland, Ohio. Filed Jan. 24, 1930. Serial No. 423,147. 2 Claims. (Cl. 2—278.)



1. As a new article of manufacture, a pocket ornament formed of a single layer of fabric and provided at one

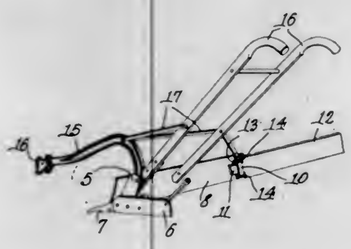
edge thereof with a series of corner-like shaped projections having lines extending from the bases of said projections onto the body portion of the fabric, each line being substantially in alignment with an edge of a projection to simulate overlapping of the corner portions of a handkerchief when folded.

1,785,963. ELECTRIC STORAGE BATTERY. CHARLES E. LINEBARGER, Chicago, Ill. Filed Dec. 19, 1925. Serial No. 76,375. 2 Claims. (Cl. 136—182.)



1. The combination of an electric storage battery and liquid density indicating means, said battery having a vent cap with an opening in its upper wall, said indicating means being slidably mounted in said opening and extending downwardly to a point below the normal liquid level in said battery, a hydrometric unit in said tube beneath said opening, and means for reducing the air pressure in said indicating means.

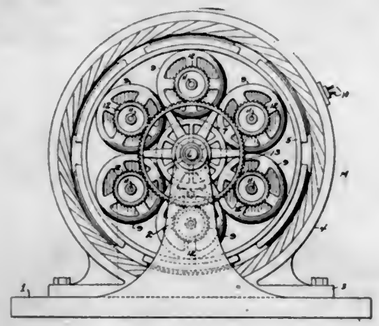
1,785,964. PLOW. WILLIAM H. MADDEN, Mount Pleasant, Tex. Filed Sept. 18, 1929. Serial No. 393,505. 1 Claim. (Cl. 97—134.)



A plow including a plow stock, an elongated moldboard secured adjacent to the plow stock, a strap extending rearwardly from the moldboard, an auxiliary moldboard having an extension at one end thereof, said extension defining shoulders to engage the strap, and a securing pin extended through the extension and engaging the strap to cooperate with the shoulders in holding the auxiliary moldboard in position.

1,785,965. MOTOR GENERATOR. GEORGE D. MAJOR, Cumberland, Md. Filed Feb. 1, 1929. Serial No. 336,879. 3 Claims. (Cl. 171—123.)

1. A device of the class described comprising an electric motor including a stator and a direct current field rotor, a plurality of direct current generators mounted within the confines of the rotor, means for rotating the armatures of the generators as they revolve with the rotor, said generators being connected in parallel with each other and in series with the coils of the rotor and means

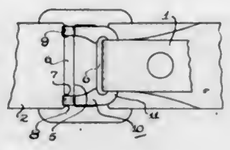


for conducting the current, after the same has passed through the coils, to a device to be supplied with current and then conducting the current back to the generators.

1,785,966. LEATHER AND METHOD OF PRODUCING THE SAME. EDWIN S. MIX, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Filed July 25, 1927. Serial No. 208,413. 3 Claims. (Cl. 149—4.)

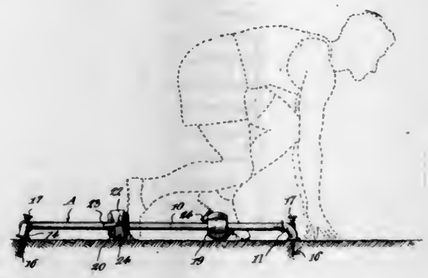
2. The method of producing a leather surface which comprises stretching the hide in one direction during the tanning operations to cause the major portion of the fibres of the hide to arrange themselves in such direction, and combing the surface of the leather in such general direction to cut the transverse surface fibres and release the surface fibres to project in the direction of the combing.

1,785,967. BELT FOR PERSONAL WEAR. EDWIN S. MIX, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Jan. 30, 1929. Serial No. 336,240. 2 Claims. (Cl. 241—8.)



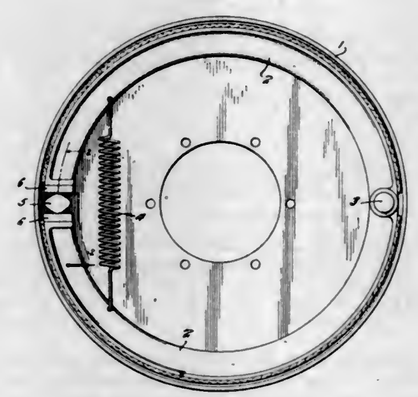
1. In combination with a belt having one end reduced, a buckle comprising a front plate having three slots arranged side by side, the outside slots being of uniform width and being symmetrically arranged with reference to the opposite sides of the front plate, the ends of the two outside slots projecting beyond the ends of the central slot, and the other belt end being passed through the two butside slots to lie in front of the central slot, said front plate having two bars separating the slots, one of said bars having portions offset rearwardly from the plate, and a belt attaching member having two arms bent about the offset portions of the said bar, said belt attaching member extending behind the front plate toward the other bar and having a bar about which the reduced end of the belt is looped, the width of the attaching member being less than the length of either one of the slots of the front plate so that the attaching member and the reduced end of the belt are covered by the other end of the belt.

1,785,968. SPRINT STARTING APPLIANCE. JOHN P. NICHOLSON and JOHN W. MCALLISTER, Notre Dame, Ind.; said McAllister assignor to said Nicholson. Filed Feb. 23, 1929. Serial No. 342,113. 10 Claims. (Cl. 272—59.)



1. A sprint starting device for track meets comprising a single central support, and foot holds carried by and projecting laterally from the opposite sides of the support.

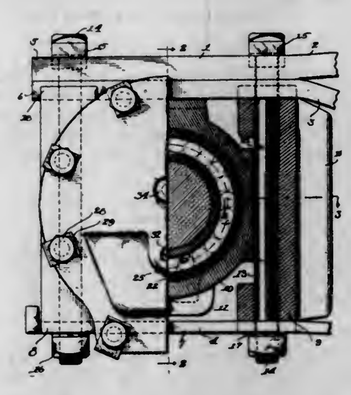
1,785,969. BRAKE-SHOE STRUCTURE. RAYMOND J. NORTON, Washington, D. C., assignor to Bendix Brake Company, South Bend, Ind., a Corporation of Illinois. Filed Dec. 7, 1928. Serial No. 324,361. 10 Claims. (Cl. 188—78.)



3. A brake shoe comprising a circumferential braking flange and an inherently lubricated cam plate associated therewith.

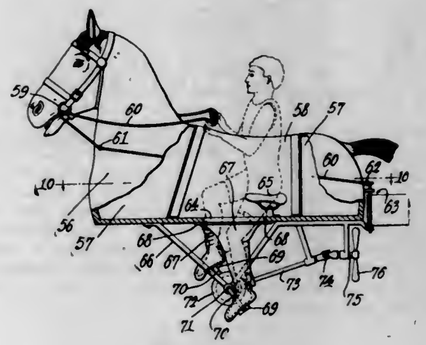
1,785,970. RAILWAY TRUCK. CHARLES P. NOSER, Rochester, N. Y., assignor to The Symington Company, New York, N. Y., a Corporation of Maryland. Filed June 24, 1926. Serial No. 118,289. 16 Claims. (Cl. 105—223.)

1. In a railway truck, in combination, a side frame having upper and lower end extensions, a journal box positioned between said extensions, pedestal means spacing said extensions to allow clearance therebetween with respect to the box and notched to accommodate side portions thereof, and through bolts joining said extensions and pedestal means, said box being provided with flanges embracing said pedestal means with sufficient clearance to allow relative motion of the box with respect thereto, at



least one of the engaging surfaces at the top of the box and the upper side frame extension being curved to permit rocking movement therebetween.

1,785,971. MAN-POWER HORSE BOAT. CHRISTOPHER D. O'CONNOR, Santa Barbara, Mexico. Filed Apr. 2, 1928. Serial No. 266,665. 2 Claims. (Cl. 9—18.)

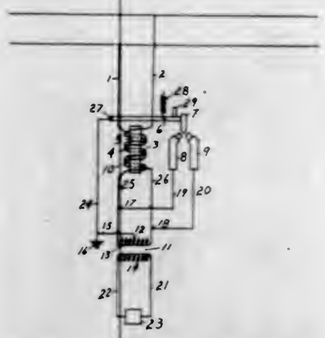


1. A boat including a hull in the form of a draft animal provided with a head having a mouth carrying a bit, a steering mechanism on the hull, and yoke lines accessible to an occupant of the hull, the yoke lines being carried forwardly to the bit, to simultate a bridle, and thence aft to the steering mechanism, the yoke lines being operatively connected to the steering mechanism for the control thereof.

1,785,972. COMMUNICATION SYSTEM. RALPH WILLOUGHBY OSBORNE, Toronto, Ontario, Canada. Filed Oct. 16, 1929, Serial No. 400,087, and in Canada Aug. 6, 1928. 3 Claims. (Cl. 179—78.)

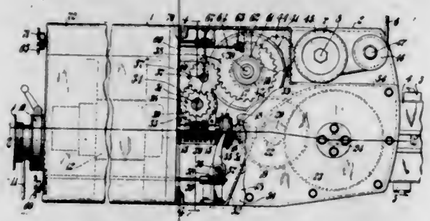
1. A communication system comprising transmission line conductors, a translating device relatively connected thereto, a winding extending between the transmission line conductors and having a neutral point connected to ground thus providing a path for draining extraneous current in the said communication system to ground, and an electromagnetic means serially connected in the said path and

adapted to operate automatically suitably arranged contacts for connecting to ground, both extremities of the said winding having a neutral point, when extraneous



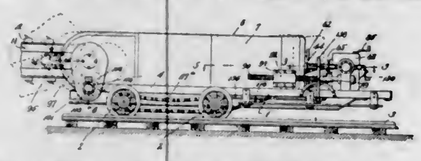
current in the communication system exceeds a predetermined degree and for disconnecting both extremities of the said winding from ground when the extraneous current subsides.

1,785,973. MINING MACHINE. CHARLES F. OSGOOD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed July 8, 1925. Serial No. 42,284. 43 Claims. (Cl. 262—30.)



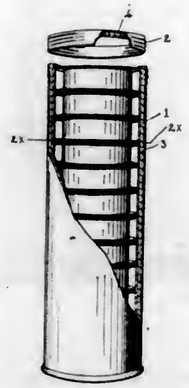
1. In a mining machine, a horizontally disposed motor having a casing slidable directly on the mine bottom during operation of the machine, feeding means for the machine comprising a variable speed device disposed on a vertical axis and driven from the forward end of said motor, and cutting mechanism driven by said motor including a horizontal plane cutter bar disposed in planes adjacent the mine floor, the top plane surface of said bar lying in a horizontal plane intersecting said motor and said variable speed device.

1,785,974. MINING APPARATUS. CHARLES F. OSGOOD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Oct. 9, 1926. Serial No. 140,578. 41 Claims. (Cl. 262—28.)



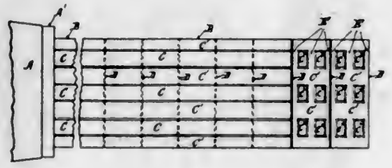
1. In a mining apparatus, a wheeled truck frame, a machine body slidably guided on said frame and having mounted thereon a pivoted cutter bar carrying an orbitally movable cutter chain, and means including a pivotal connection between said cutter bar and said truck frame and lying wholly outside of said cutter chain orbit for swinging said bar about its pivot including mechanism for moving the machine body longitudinally relative to said truck frame to effect bar swing.

1,785,975. HUMIDOR FOR INKED RIBBONS. LELAND A. PHILLIPS, Rochester, N. Y. Filed July 27, 1926. Serial No. 125,295. 3 Claims. (Cl. 206—1.)



1. In a humidor for inked ribbons, the combination of a box, a cover for said box, a removable absorbent lining adapted to be placed within said box, a waterproof coating on one side of said lining and means impregnated into said absorbent lining to constantly keep the air moist within said box.

1,785,976. VERTICAL FIBER GROOVED-LUG PAVING BRICK. JACOB NESSLY PORTER, East Liverpool, Ohio, assignor to The Globe Brick Company, East Liverpool, Ohio, a Corporation of West Virginia. Filed Feb. 7, 1928. Serial No. 252,571. 1 Claim. (Cl. 94—14.)

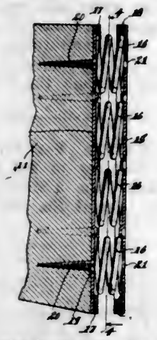


A brick for use in pavements, comprising a substantially rectangular body portion having wear resisting and tractive wire cut upper and lower faces and having relatively smooth and uninterrupted flat edge and end faces, said body portion having across one only of said edge faces spaced apart broad ribs and the brick adapted to be laid with said ribs abutting the opposite flat edge face of a like prior laid brick to provide vertical grout filler receiving passages between the ribs and adjacent bricks when laid and hold the adjacent bricks from longitudinal relative movement, and said ribs having spaced depressions extending thereacross and opening into the vertical passages to admit free horizontal flowing of the filler to anchor adjacent bricks against relative vertical displacement.

1,785,977. SHOCK ABSORBER FOR GUNS. SAMUEL R. PRUYN, Chicago, Ill. Filed Feb. 7, 1929. Serial No. 338,261. 4 Claims. (Cl. 42—74.)

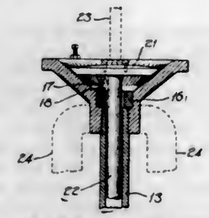
1. The herein described shock absorber for guns and the like, comprising an inner and an outer plate in normally spaced relation to each other, said plates having

relatively low inwardly extended marginal stiffening flanges, the inner plate having provision for its attach-



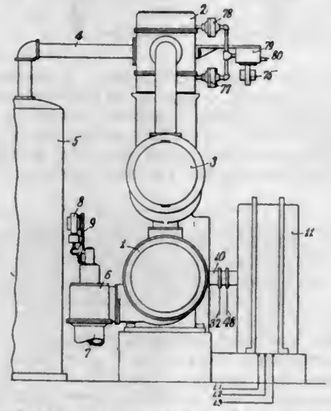
ment directly to the butt end of a gun stock, and interposed spring elements yieldably connecting said inner and outer plates.

1,785,978. CUTTER TOOL. JOSEPH QUINN, Brooklyn, N. Y. Filed Dec. 13, 1928. Serial No. 325,718. 2 Claims. (Cl. 90—12.5.)



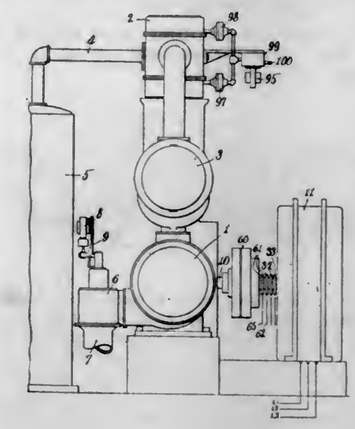
1. A tool of the class described comprising a substantially conical solid wall body, the peripheral edge of said body having a radially projecting flat circumferential flange, the inner and outer surfaces of said body having cutter teeth formed therein, the central portion of said body terminating in a projecting tubular collar, the peripheral walls of which are angular in form, and the bore of said collar being threaded and terminating at its inner end in an enlarged angular socket.

1,785,979. AUTOMATIC COMPRESSOR-CONTROL SYSTEM. JOHN W. SANFORD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Nov. 14, 1927, Serial No. 233,223. Renewed Apr. 4, 1930. 25 Claims. (Cl. 230—4.)



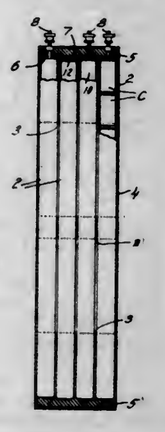
1. In combination, a compressor, a synchronous motor for driving the same, electrically actuated unloading means for said compressor, and means for controlling both the synchronizing of said motor and the loading of said compressor, said controlling means causing the flow of current simultaneously to the field of said motor and to said unloading means.

1,785,980. AUTOMATIC COMPRESSOR-CONTROL SYSTEM. JOHN W. SANFORD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Nov. 16, 1927, Serial No. 233,695. Renewed Mar. 12, 1930. 17 Claims. (Cl. 230—4.)



1. In an automatic compressor control system, a compressor, a driving motor therefor, clutch means for connecting the motor and compressor, means for automatically controlling the clutch means to connect the compressor and motor only after the latter has reached substantially its normal operating speed, unloading devices for said compressor, and means for maintaining the same in unloading position for a predetermined length of time after the clutch meana have been applied.

1,785,981. BATTERY. WALTER B. SCHULTE, Madison, Wis., assignor to Burgess Battery Company, a Corporation of Wisconsin. Filed May 28, 1928. Serial No. 281,007. 13 Claims. (Cl. 136—108.)

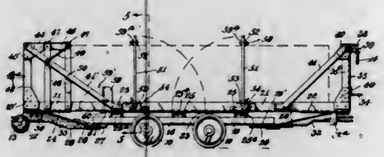


1. A high voltage dry battery comprising a carton, a plurality of elongated cylindrical battery units disposed in parallel relation within said carton, each of said units

comprising a plurality of electrically connected cells, means for electrically connecting said units in series whereby a considerable difference in voltage exists between adjacent units and means comprising a plurality of strips of liquid-repellent insulating material extending between said units and maintaining said units in spaced relation.

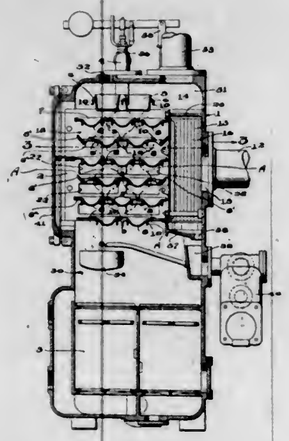
5. A cylindrical battery unit comprising a plurality of cylindrical dry cells arranged in end-to-end relation, means for electrically connecting said dry cells in series, insulating washers disposed between adjacent cells, and a tube of water repellent insulating material surrounding said cells.

1,785,982. MATERIAL CARRIER. JOHN WILLIAM SCOTT, Bisbee, Ariz. Filed Oct. 26, 1926. Serial No. 144,273. 13 Claims. (Cl. 105—364.)



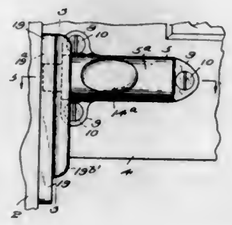
1. A car for handling material comprising a body, two axles secured below the body, each axle being nearer the middle than an end of the car, a plurality of rolling wheels on each axle, for normally supporting the car in horizontal position, a third axle secured near one end of the car, said third axle being mounted in fixed relation to the body, a plurality of rolling tilting wheels concentrically mounted on the third axle, the parts being so arranged that the rolling wheels on the first-mentioned two axles extend a greater distance from the body than the tilting wheels on the third axle, the peripheries of said tilting wheels extending below the end of the car.

1,785,983. FEED-WATER HEATER. JOSEPH H. SEBALD, Arlington, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Apr. 1, 1929. Serial No. 351,676. 10 Claims. (Cl. 261—114.)



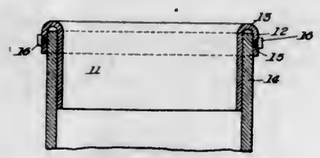
1. In a feed water heater, a casing, a plurality of pans arranged in tiers within the casing and having the pans in each row placed staggeredly with respect to the pans in adjacent rows, said pans having their sides downturned and serrated along their edges whereby the water will flow through the casing in a plurality of small interrupted streams, said casing having a steam inlet remote from and opposed to the water inlet whereby steam will flow in continuous sinuous streams through the casing counter to the water flow therethrough, and means for permitting augmenting of the quantity of steam at spaced points during its travel through the casing.

1,785,984. SAFETY DEVICE. VALENTINE SEITZ, Cleveland Heights, Ohio, assignor to The Cleveland Clinic Foundation, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 30, 1929. Serial No. 389,471. 3 Claims. (Cl. 70—14.)



2. In a safety device for a window, the combination of a casing mounted on the window sash and having a barrel, a bolt slidable therein, means for sliding the bolt into operating position and into retracted position within said barrel, said means including a removable operating member, and a keeper member mounted on the frame of the window and comprising an abutment arranged in the path of movement of said bolt when the latter is in operating position and a guard extending toward the end of the sash carrying said casing in a plane parallel to the path of movement of the bolt, and a flange carried by the guard extending laterally beyond the plane of the outer end of said casing.

1,785,985. PROTECTOR. PETER J. SHRUM, Monaca Heights, Pa., assignor to Pittsburgh Screw and Bolt Corporation, a Corporation of Pennsylvania. Filed Jan. 20, 1928. Serial No. 248,129. 7 Claims. (Cl. 137—91.)

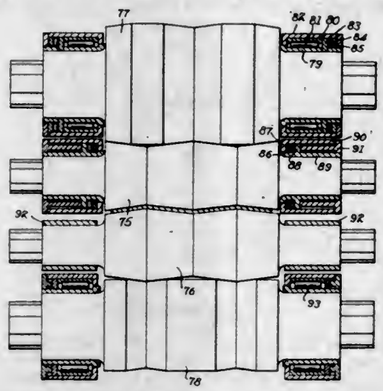


1. A thread protector comprising a cylindrical member adapted to surround a pipe to be protected, an uninterrupted integral cylindrical member adapted to lie within said pipe, a curved wall joining said inner and outer members and threaded means extending through the inner member for engaging the inner surface of said pipe.

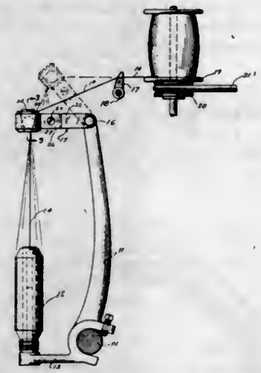
1,785,986. METHOD OF AND APPARATUS FOR ROLLING SHEET METAL. JAMES RAMSEY SPEER, Trappe, Md., and FREDELLIA H. MOYER, Pittsburgh, Pa. Filed July 6, 1928. Serial No. 290,734. 18 Claims. (Cl. 29—18.)

15. The continuous method of rolling sheet metal, comprising reducing a blank singly in a series of continuous roll passes each having a plurality of corrugations the same in number but of successively less depth and greater spread, spreading the blank between said successive continuous roll passes to cause its corrugations to correspond

in spread with those of the pass it enters, matching a plurality of such blanks in a nested pack, reducing the matched pack in a series of continuous roll passes each having the same number of corrugations as the first-mentioned passes, and maintaining the single blank and pack in alignment in the continuous roll passes by engagement of the corrugations of the blank and pack with those of the passes.

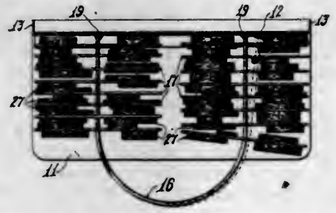


1,785,987. YARN-TENSIONING DEVICE. WALTER CLYDE STEWART, Gastonia, N. C., assignor to Emanuel Frohman, Gastonia, N. C. Filed June 5, 1929. Serial No. 368,628. 1 Claim. (Cl. 242—45.)



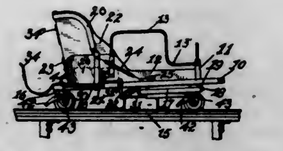
A tensioning device having a funnel shaped passageway with a ball member in said passageway, and means for adjusting the tension of thread which is adapted to be passed therethrough.

1,785,988. DISPLAY AND INDEX RACK. EDWIN A. SUTCLIFFE, Oak Park, Ill., assignor to Victor Manufacturing & Gasket Co., a Corporation of Illinois. Filed Apr. 22, 1929. Serial No. 357,171. 2 Claims. (Cl. 211—57.)



1. A rack for displaying washers, comprising a base and a back board and having, in combination, a pair of sockets on said back board, a resilient arcuate shaped guide rod having its ends bent to form right angles, a flattened surface on one side of each of said bent ends forming a pair of oppositely disposed shoulders thereon, said shoulders abutting the top and bottom edge of their respective sockets to maintain the arcuate guide rod detachably secured therein.

1,785,989. CAR FOR AMUSEMENT RIDES. HARRY G. TRAVER, Beaver Falls, Pa. Original application filed Mar. 19, 1925, Serial No. 16,831, now Patent No. 1,713,793, dated May 21, 1929. Divided and this application filed Oct. 7, 1927. Serial No. 224,535. 7 Claims. (Cl. 104—85.)



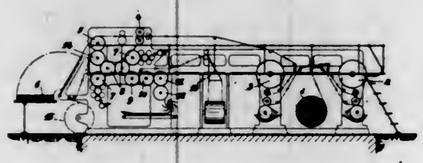
1. In a passenger car for amusement rides, a body arranged with a seat, a back rest for the seat adapted to be tilted rearward and normally urged to back supporting position and releasable means to retain the back rest in back supporting position, and adapted to be released to permit the seat back to be tilted backward and a passenger in the car to assume a backward reclining position.

1,785,990. SAND BOTTOM FOR PUMPS AND BAILERS. RALPH B. WELSH, Burkburnett, Tex., assignor of ten per cent to Chester D. Rubel, twenty-four per cent to Lester D. Mowrey, and one-fourth to J. H. Coggins, Wichita Falls, Tex. Filed Jan. 31, 1928. Serial No. 250,850. 2 Claims. (Cl. 166—19.)



1. A sand mixing bottom for sand pumps and bailers comprising a tubular body formed to provide a pair of spaced diametrically opposed depending prongs, said prongs being substantially of a convex-concavo cross section and each of said prongs having their marginal edges beveled to form cutters, and a mixing rib disposed intermediate the lower ends of the prongs and their points of connection with the tubular body, said mixing rib extending across the space between the prongs and having its ends connected to the prongs intermediate the cutting edges of the latter.

1,785,991. ROTARY PRINTING MACHINE FOR COMBINED INTAGLIO AND RELIEF PRINTING. OTTMAR WILHELM, Augsburg, Germany, assignor to The Firm Maschinenfabrik Augsburg-Nuernberg, Aktiengesellschaft, Augsburg, Germany, a Corporation of Germany. Filed Aug. 23, 1928, Serial No. 301,535, and in Germany Aug. 24, 1927. 2 Claims. (Cl. 101—157.)

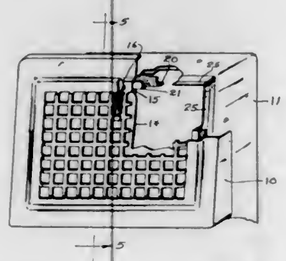


1. A rotary printing machine combined intaglio and relief printing, comprising an intaglio printing device including a collecting cylinder associated with a sheet delivery, and a relief printing device including printing cylinders, said collecting cylinder being operatively associated with said printing cylinders so as to permit alternatively operation of said collecting cylinder as such or as a feed-cylinder for forwarding cut paper-sheets to said relief printing device.

1,785,992. RECOVERY OF FLUORSPAR FROM ORES THEREOF. JOHN CHARLES WILLIAMS, Westport, Conn., and OMER WATSON GREEMAN, Marion, Ky., assignors to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Sept. 26, 1928. Serial No. 308,576. 13 Claims. (Cl. 209—166.)

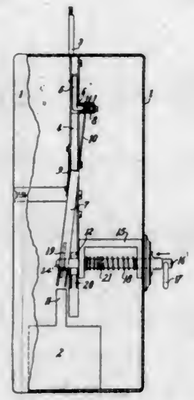
1. In a process of froth-flotation for the concentration of fluorspar values from fluorspar ore containing substantial amounts of calcite, the steps comprising removing the major portion of the slimes, and frothing a pulp, containing the deslimed ore, with oleic acid and a modifying agent adapted to decrease the calcite-lifting properties of the froth.

1,785,993. HOT-AIR-REGISTER CONSTRUCTION. GEORGE S. AUER, Cleveland, Ohio. Filed Oct. 10, 1928. Serial No. 311,591. 2 Claims. (Cl. 98—114.)



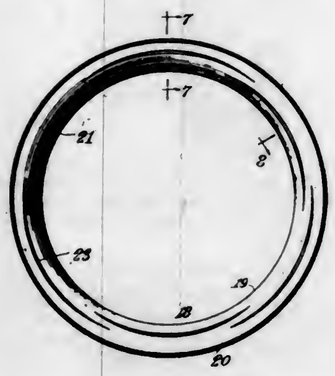
1. In combination, a register having an opening therein, a box associated therewith, coacting flanges on the register and box respectively, some of the flanges having an overhanging lip, there being strips of flexible material associated with the flanges, one edge of each strip extending into the overhanging lip of the associated flange and said strips providing an air tight connection between the register and box.

1,785,994. COIN-COLLECTING APPARATUS. MICHELE AUTERI, Milan, Italy, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany. Filed Nov. 11, 1926, Serial No. 147,687, and in Italy Apr. 5, 1926. 8 Claims. (Cl. 194—16.)



1. In a pay-station coin box, a stationary coin chute, a collecting receptacle, a refund receptacle, said stationary chute terminating in a movable chute for directing an inserted coin either into said collecting receptacle or into said refund receptacle, a plunger for arresting said coin and for moving said movable chute through the medium of said coin, a set of contact springs for performing electrical switching operations, and means on said movable chute for controlling said springs.

1,785,995. WHEEL FELLY. FREDERICK WILLIAM BAKER, Stourbridge, England, assignor to Trinity Wheel Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 27, 1928. Serial No. 249,795. 6 Claims. (Cl. 301—96.)

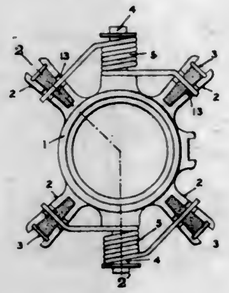


4. A wheel felly having in its sides inner and outer weakened portions with the said inner and outer weakened portions in stagered relation.

1,785,996. BRUSH HOLDER. PAUL W. BAKER, St. Louis, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a Corporation of Delaware. Filed Jan. 26, 1929. Serial No. 335,165. 4 Claims. (Cl. 171—324.)

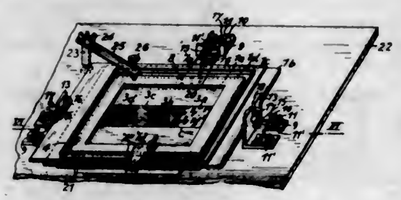
1. In a dynamo electric machine, the combination with a brush holder provided with brush guide slots and brushes

therein, of a resilient brush follower having one end bearing on one of a pair of brushes and the other end bearing



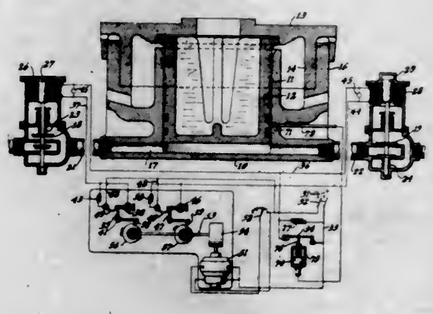
on the other brush, and a pivot support for said follower intermediate its ends whereby the pressure on one brush will be proportional to the pressure on the other brush.

1,785,997. METHOD OF SECURING ACCURATE COLOR VALUES IN COLOR PRINTING AND COLOR PHOTOGRAPHY. CARL BLECHER, Berlin-Dahlem, Germany. Filed July 28, 1925, Serial No. 46,668, and in Germany Aug. 20, 1924. 5 Claims. (Cl. 95—2.)



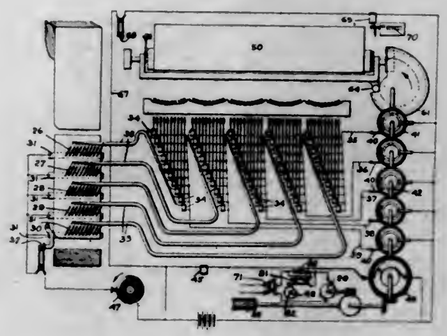
1. A method for securing accurate color values in color printing and color photography, characterized by the feature that for the colored part images to be placed together intermediate images are made in the respective colors on thin films stretched on frames.

1,785,998. JARRING MACHINE. EDWARD B. BROOKE, Birmingham, Ala. Filed Mar. 15, 1930. Serial No. 436,111. 10 Claims. (Cl. 121—14.)



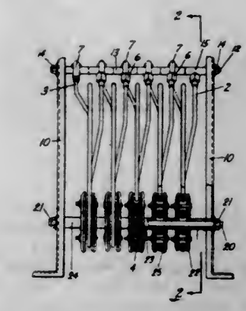
1. In a pressure operated jarring machine, the combination of a cylinder, valves for admitting and exhausting fluid under pressure to and from the cylinder, electro-magnetic means for operating the valves, a cam shaft, cams on the shaft for controlling the electro-magnetic means, adjustable means for varying tae controlling surfaces of the cams, and means for driving the cam shaft.

1,785,999. RECORD-CONTROLLED PRINTING MECHANISM. JAMES W. BRYCE, Bloomfield, N. J., assignor to The Tabulating Machine Company, Endicott, N. Y., a Corporation of New Jersey. Filed June 6, 1928. Serial No. 283,149. 11 Claims. (Cl. 197—20.)



1. A record controlled apparatus including a plurality of sets of sensing means adapted for cooperation with perforated cards which are movable transversely of the columns thereof, a plurality of typewriter type sets of printing devices each comprising a group of type bars and each coordinated with a set of sensing means and controlled thereby, means for feeding the cards column by column to the multiple sets of sensing means, and means for effecting printing operations of the various type bars in the sets under the control of the said sensing means.

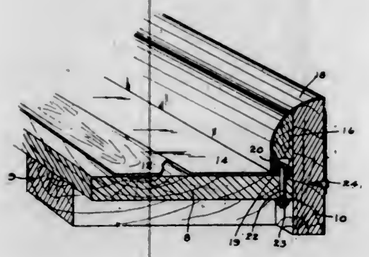
1,786,000. CONDENSER UNIT FOR MECHANICAL REFRIGERATORS. HARRY W. BUNDY, Detroit, Mich., assignor, by mesne assignments, to Bundy Tubing Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 7, 1928. Serial No. 245,071. 7 Claims. (Cl. 257—36.)



1. A condenser unit for mechanical refrigeration apparatus or the like comprising, a plurality of spiral coils of tubing, said coils being arranged side by side with their

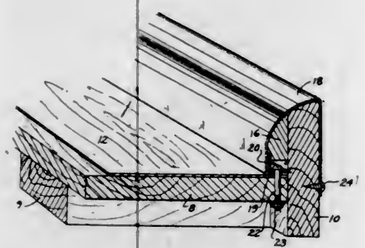
adjacent ends connected, a standard at each end of this unit and means connecting the standards also supporting the coils in one unit.

1,786,001. PLATE MOUNTING. LLOYD V. CASTO, Detroit, Mich., assignor to Oxford Varnish Corporation, Detroit, Mich., a Corporation of Michigan. Filed Sept. 10, 1927. Serial No. 218,743. 6 Claims. (Cl. 101—383.)



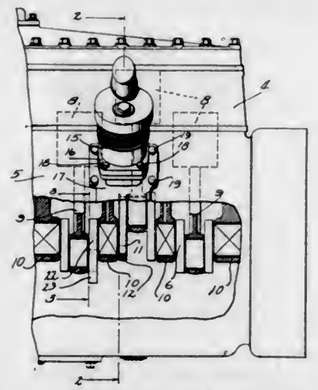
1. In combination a mounting for a relatively thin intaglio plate, comprising a flat supporting medium, said supporting medium being wider than the width of the plate to be supported, pigment retaining rails extending longitudinally of and attached to the plate supporting medium and filler strips disposed to fit between the longitudinal edges of the plate and said rails, the filler strips being of the same thickness as the thickness of the plate to be supported whereby a uniform surface is presented for the application of ink to the entire width of the plate.

1,786,002. PLATE MOUNTING. LLOYD V. CASTO, Detroit, Mich., assignor to Oxford Varnish Corporation, a Corporation of Michigan. Original application filed Sept. 10, 1927, Serial No. 218,743, and in Australia Sept. 6, 1928. Divided and this application filed Nov. 5, 1929. Serial No. 405,009. 8 Claims. (Cl. 101—383.)



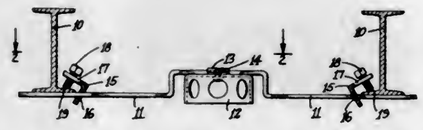
1. In a mounting for thin metallic plates, the combination of a plate supporting medium constructed of seasoned wood and adapted to have an engraved plate mounted thereon, the mounting having a flange construction along the longitudinal edges thereof, the flange construction including a metallic covering attached to the flange construction along the outer faces of the flange construction and having a concealed attachment to the plate supporting medium, said metallic covering of the flange construction also comprising part of a clamping means for securing a plate to the supporting medium.

1,786,003. COMPRESSOR DRIVE. NIELS A. CHRISTENSEN, Cleveland, Ohio. Filed Mar. 15, 1929. Serial No 347,221. 4 Claims. (Cl. 123—2.)



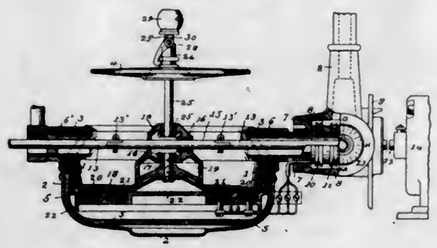
1. In an automotive engine, the combination with the engine frame, of a compressor cylinder mounted on said frame, a piston working in said cylinder, and means for driving said piston direct from the engine crank shaft comprising an eccentric formed on one of the crank cheeks of the crank of one of the power pistons.

1,786,004. CLAMP FOR CROSSBARS. MARTIN M. CLAYTON, Baden, Pa., assignor to National Electric Products Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 30, 1929. Serial No. 336,199. 4 Claims. (Cl. 248—32.)



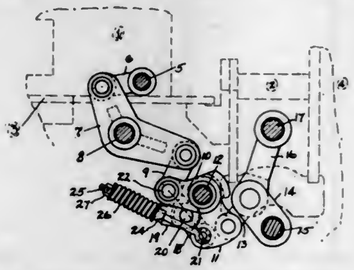
1. A fastening and clamping means for securing outlet box carrying bars to I beams or the like, comprising a clamping member with an opening therethrough to slidably receive a bar to be clamped and provided with a toe portion adapted to project over a flange of an I beam or the like and carrying a set screw which is laterally offset with respect to the opening in the clamping member and adapted to be tightened upon the flange whereby the clamping means is tipped and secured to the bar and whereby the bar is secured to the I beam or the like.

1,786,005. STIRRING MECHANISM FOR CORN-POPPING APPARATUS. CHARLES CRETORS, Chicago, Ill. Original application filed Dec. 12, 1927, Serial No. 239,449. Divided and this application filed Sept. 3, 1929. Serial No. 389,899. 4 Claims. (Cl. 53—4.)



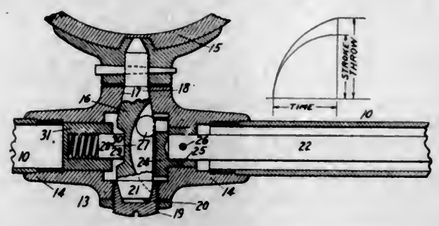
1. In corn popping apparatus in which the popping pan is of an open top reversible form and journalled by a radially extending tubular sleeve in a stationary side supporting upright, the combination of a stirring means adapted for central location in a popping pan, and an associated operating mechanism, the same comprising a non-revoluble hollow casing formed with horizontal and vertical bearings, a radially arranged shaft journalled in the horizontal bearing of said casing and having an extension adapted for central passage through the tubular journal sleeve of a popping pan and operative connection with a power source, a secondary shaft journalled in a vertical bearing of said casing, the carrying hub of the stirrer means having fixed attachment to said vertical shaft, and angle gear wheels operatively connecting said shafts together.

1,786,006. SAFETY DEVICE. WILLIAM W. CRILEY, Cleveland, Ohio, assignor to The Ajax Manufacturing Company, Euclid, Ohio, a Corporation of Ohio. Filed May 7, 1927. Serial No. 189,504. 6 Claims. (Cl. 74—48.)



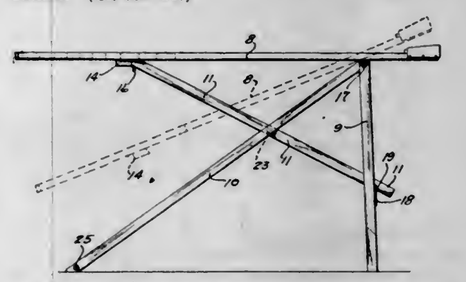
1. In a device of the character described, the combination of pivotally connected thrust members, reciprocating means for imparting motion therethrough, and an auxiliary connection between said members allowing yielding compensatively on abnormal resistance, said connection including pivoted toggle links and a spring yoke extending across one said toggle link to the other.

1,786,007. OPERATING MECHANISM FOR DIRIGIBLE HEADLIGHTS. CHARLES M. CRONKHITE, Glendale, Calif., assignor to Pilot Ray Corporation, Los Angeles, Calif., a Corporation of Delaware. Filed June 27, 1928. Serial No. 288,665. 6 Claims. (Cl. 74—14.)



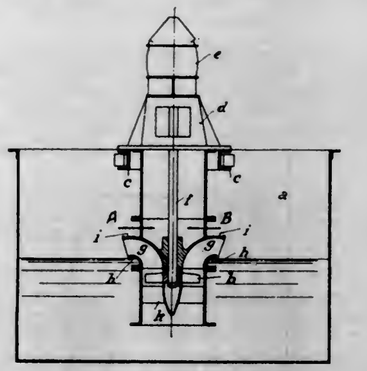
1. In a mechanism of the character described, a tubular structure adapted to be mounted on a supporting structure, a housing carried by said tubular structure, a spindle journaled in said housing and having contact surfaces extending lengthwise thereof and spaced apart, said spindle having means for connecting the same with a device to be operated, a shaft rotatably mounted in said tubular structure and having means for connecting the same with operating mechanism, a member mounted in said housing, connected with said shaft for rotation therewith and having a part extending between said contact surfaces, said spindle having a flattened surface, and a spring pressed plunger mounted in said housing and engaging said flattened surface to hold said spindle normally against movement.

1,786,008. FOLDING IRONING TABLE. CHARLES DANIELSON, Minneapolis, Minn., assignor to Hall Nelson Manufacturing Company, Minneapolis, Minn., a Partnership consisting of Charles A. Hall and E. G. Nelson. Filed Jan. 14, 1928. Serial No. 246,714. 6 Claims. (Cl. 68—10.)



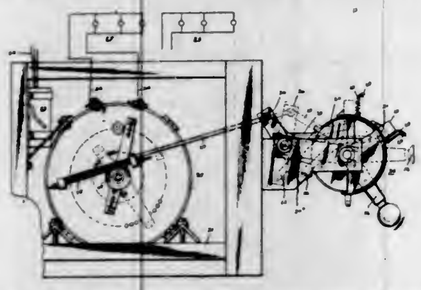
1. A folding ironing table comprising a board, a pair of upright legs loosely pivoted to one end of the board and an oblique leg pivoted to the same end of the board for supporting one end thereof, all of said legs being arranged to be folded onto the board, a brace in the form of a toggle lever connecting the upright legs and arranged to straighten by a downward movement of the knee of the toggle and spread the oblique legs into operative positions and when buckled to draw the upright legs toward each other, stop means for limiting the straightening movement of said toggle, and a strut intermediately pivoted to the oblique leg with one of its ends supporting the other end of the board and with its other end resting on the top of the brace as a support and holding the brace against buckling movement, said board being provided with a stop shoulder with which the board-supporting end of the strut engages for holding said strut against endwise movement away from the upright legs, said strut having a notch into which the brace extends for holding the upright legs against pivotal movement.

1,786,009. APPARATUS FOR MIXING LIQUIDS. FRIEDRICH DUWE, Mainz-Kastel, Germany, assignor to Maschinenfabrik Augsburg-Nurnberg A. G., Nuremberg, Bavaria, Germany, a Corporation of Germany. Filed May 28, 1929, Serial No. 366,715, and in Germany June 13, 1928. 4 Claims. (Cl. 259—97.)



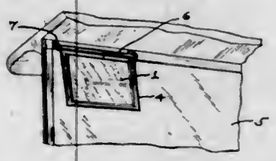
1. In a mixing apparatus, the combination with a container and a screw-propeller rotatably disposed therein about a vertical axis, of a casing surrounding said propeller, and a plurality of discharge nozzles provided on said casing being arranged in a circle around said casing and curved in a radial plane relative to said container so as to discharge the liquid in fan-shape upon the level of the liquid in said container.

1,786,010. CONTROL DEVICE. HARRISON J. L. FRANK, Detroit, Mich., assignor to Bulldog Electric Products Company, Detroit, Mich., a Corporation of West Virginia. Filed Oct. 19, 1925. Serial No. 63,375. 9 Claims. (Cl. 175—312.)



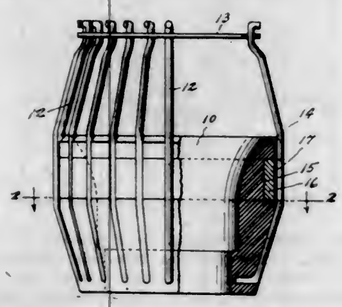
1. A control device for a rheostat comprising a member movable to decrease the rheostat resistance, a member movable to increase the rheostat resistance, a lever for moving a pre-selected one of said members, means to determine at what point in the operation of the lever said pre-selected member begins its movement, and means to determine at what point in the operation of the lever said member shall stop.

1,786,011. GLARE SHIELD. PHILIP J. GROENENSTEIN, Cleveland, Ohio. Filed Nov. 29, 1926. Serial No. 151,336. 5 Claims. (Cl. 296—97.)



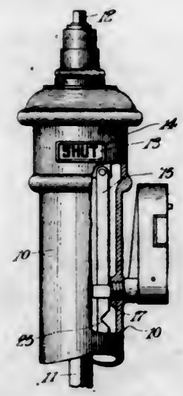
5. In a glare screen the combination of a composite sheet of flexible material formed of a plurality of sheets of transparent material, one of said sheets being of the full area of the screen, and another of said sheets being of lesser area than said first-mentioned sheet, and integrally united therewith.

1,786,012. ELASTIC RECIPROCATING MEMBER. SAMUEL A. GUIBERSON, Jr., Los Angeles, Calif., assignor to The Guiberson Corporation, Dallas, Tex., a Corporation of Delaware. Filed Jan. 20. 1928. Serial No. 248,219. 3 Claims. (Cl. 74—109.)



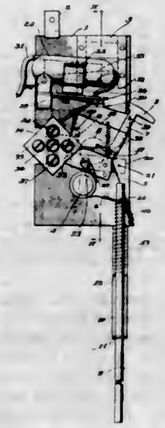
1. As a sub-combination in a radially expanding elastic fluid lifting member having spaced vertical grooves, a replaceable annulus adapted to be seated circumferentially in the outer surface of said member and having spaced vertical grooves in its outer surface adapted to aline with the grooves of the lifting member for receiving reinforcing wires.

1,786,013. SUPERVISORY MECHANISM. PHILIP H. HASELTON, East Orange, N. J., and MALCOLM A. JENCKES, Providence, R. I., assignors to Detex Watchclock Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 28, 1927. Serial No. 236,151. 6 Claims. (Cl. 234—37.)



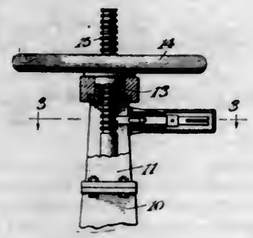
1. A supervisory mechanism for use in conjunction with a valve provided with a casing enclosing a stem for controlling the position of a valve gate comprising, a housing, a recording key pivotally mounted within said housing, said recording key being capable of swinging in an arc about its pivot from a position in which the working end of the recording key is inaccessible within said housing to a position of accessibility of the working end of the recording key from outside of said housing, a rod having connections with the stem, said rod being enclosed within the casing, and means adapted to coact with said rod and with said key for maintaining said key within said housing when said rod is in predetermined position.

1,786,014. COIN-CONTROLLED MECHANISM. GUSTAV F. HOCHRIEM, Chicago, Ill. Filed Apr. 13, 1928. Serial No. 269,643. 8 Claims. (Cl. 194—61.)



1. A coin controlled mechanism comprising a base, an oscillating arm on said base, a rod arranged to move said arm in one direction, a spring to move said arm in opposite direction, a stop for said arm comprising a plate pivoted to said base, said plate having a notch therein, a pin on said arm arranged to engage said notch, a cam on said plate, a lever pivoted to the back side of said base having a pin thereon projecting through an aperture in said base, a spring secured to said lever to maintain same in normal position, a coin chute arranged to deposit a coin on said arm and said pin, said arm on oscillation arranged to move said coin against the cam on the plate to raise the stop out of the path of the pin on said arm and depress said pin and lever for escape of said coin, a head on said arm arranged to close said coin chute when said arm is moved by said rod, and yielding connections between the rod and the oscillating arm.

1,786,015. SUPERVISORY MECHANISM. IRA W. KNIGHT, Providence, R. I., assignor to Detex Watchclock Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 28, 1927. Serial No. 236,152. 8 Claims. (Cl. 234—37.)



1. A supervisory mechanism comprising, in combination, a recording key, a bracket for supporting said recording key, and means mounted adjacent said recording key and adapted to be positioned in respect to said recording key to prevent operation thereof without changing the position of the key relative to said supporting bracket.

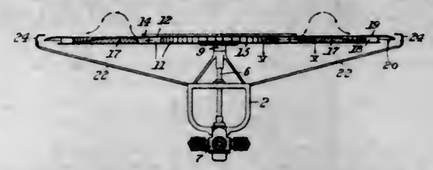
1,786,016. METHOD FOR THE PRODUCTION OF HIGH-PURITY ABRASIVE MATERIALS. JACOB S. MASIN and HAROLD E. WHITE, Anniston, Ala., assignors, by mesne assignments, to Swann Research, Inc., Birmingham, Ala., a Corporation of Alabama. Filed May 9, 1927. Serial No. 190,131. 7 Claims. (Cl. 23—143.)

1. A process for the direct production of high purity crystals of aluminous oxide from bauxite, which consists in smelting the bauxite in the presence of sufficient carbon to produce an acid-decomposable matrix in which the crystals of high purity crystalline aluminous oxide are formed, dissolving the matrix in a bath containing dilute sulphuric acid, and separating the crystals therefrom.

2. A process for the production of a high purity abrasive material, which consists in furnacing a charge of bauxite with an excess of carbon to reduce substantially all the oxides of silicon, iron, titanium and a small percentage of alumina present in the bauxite, then cooling said fused mass and forming a high purity crystalline alumina imbedded in a matrix of acid-decomposable character, said character being the result of the excess of said carbon in the charge, then crushing and separating undesirable portions of the fused mass, and then subjecting said crushed material to the dissolving action of a bath of dilute sulphuric and hydrofluoric acids.

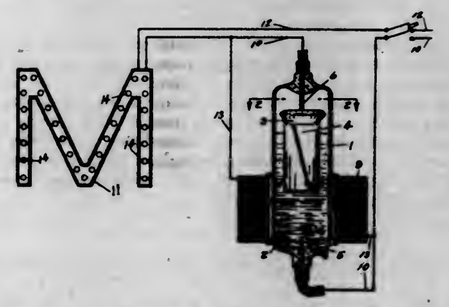
1,786,017. HELICOPTER. GEORGE MATTA, Braddock, Pa. Filed Aug. 8, 1928. Serial No. 298,258. 8 Claims. (Cl. 244—19.)

1. A helicopter comprising a fuselage, an engine carried thereby, a lifting unit mounted above the fuselage and comprising a circular lifting vane and a plurality of fan blades disposed internally and externally of and



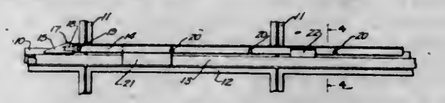
concentrically with said vane for directing air against the lifting vane, and means for connecting the engine to the lifting unit.

1,786,018. DELAYED-ACTION MERCURY-TUBE SWITCH. IRA E. MCCABE, Chicago, Ill. Filed May 28, 1928. Serial No. 281,028. 2 Claims. (Cl. 200—90.)



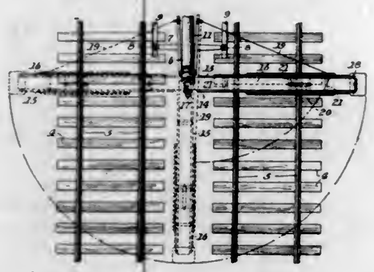
1. A delayed action mercury tube switch comprising a glass tube containing a body of mercury and an insulating container having a cylindrical bore with an open top therein containing mercury normally floating upon the main body of mercury and isolating the smaller body therefrom, a lead in wire in contact with the main body of mercury, a lead in wire normally out of contact with the main body and in contact with the isolated body of mercury termintaing in a piston like electrode in the container bore, and means to cause the open top of the container to submerge and emerge in the main body of mercury to make and break an electrical contact between the lead in wires, the rate of movement being determined by the size of the piston like electrode.

1,786,019. WINDOW-SASH FASTENER. CHARLES J. MCINTOSH, Milwaukee, Wis., assignor to Federal Steel Sash Company, Waukesha, Wis., a Corporation of Wisconsin. Filed Oct. 30, 1926. Serial No. 145,246. 3 Claims. (Cl. 292—265.)



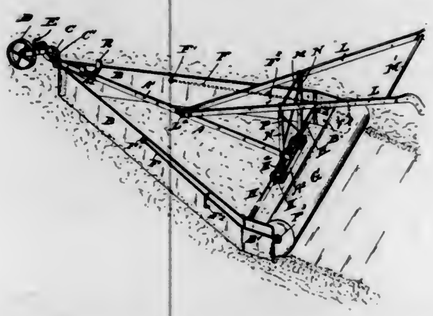
3. In a device of the character described, the combination with a fixed sash frame and a movable ventilator sash section, of a push bar having connection with said ventilator section for movement in planes at an angle to and parallel to the plane of said ventilator section and movable to engage the fixed sash frame to hold said ventilator section in open position, a fastening member engageable with said bar and mounted upon said ventilator section and spaced from said connection, and a strike-plate mounted on the sash frame between said connection and said locking member and exerting a tension upon said bar between its points of connection with said ventilator section when closed whereby to hold said ventilator section in weathering contact with said fixed sash frame.

1,786,020. CONVEYING APPARATUS. JAMES B. MCWILLIAMS, Pittsburgh, Pa., assignor to Railway Maintenance Corporation, Aspinwall, Pa., a Corporation of Pennsylvania. Filed Dec. 3, 1928. Serial No. 323,287. 19 Claims. (Cl. 198—104.)



1. Conveying apparatus, comprising conveying means pivotally movable with respect to a receiving station for conveying material in different directions therefrom, driving means operable in the same direction regardless of the direction of the conveying means, and means connected with the conveying means and selectively cooperable with the driving means upon pivotal movement of the conveying means for conveying material away from the receiving station.

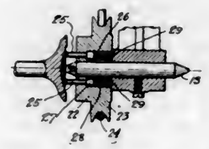
1,786,021. MACHINE FOR LAYING PAPER MULCH. RAPHAEL METTETAL, Plymouth, Mich. Filed Jan. 29, 1930. Serial No. 424,361. 6 Claims. (Cl. 47—9.)



1. A machine for unrolling and laying mulching paper comprising a frame; a pair of shield-scraper members secured at their forward ends to the frame, and extending rearwardly in spaced wedge-shaped relation to each other, whereby they are adapted for scraping a relatively thin layer of surface soil to each side of the machine and to automatically deposit same upon the marginal edges of a mulching paper; and means for holding a roll of mulching paper at the rear of said shield-scraper members, the roll being in contact with the surface of the soil, whereby as the machine is driven in a forward direction, the mulching paper is unrolled upon the ground and its marginal edges covered by the soil delivered at the rear of the scraper-shield members due to the passage of the machine.

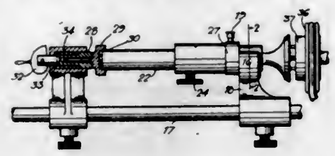
1,786,022. DRIVING HEAD FOR SMALL LATHES. HARRY G. MILLER, Denver, Colo. Filed Apr. 27, 1927. Serial No. 186,951. Renewed June 13, 1930. 7 Claims. (Cl. 82—1.)

1. A driving head of the described class comprising a body portion, a set of work engaging pins resiliently socketed in the body portion at equal distances from the central axis and an independently acting carrier resiliently supported from the head and independently movable along



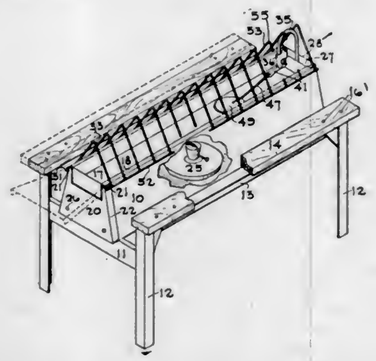
said pins, the carrier being provided with work engaging projections at distances from the central axis different from those of said pins whereby to engage work which is not engageable by said pins for work rotating purposes.

1,786,023. VALVE-CENTERING DEVICE. HARRY G. MILLER, Denver, Colo. Filed Apr. 27, 1927. Serial No. 186,952. 9 Claims. (Cl. 51—105.)



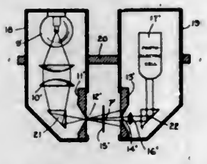
2. In a grinding machine carriage provided with head and tail stock members for engaging stemmed valves, a centering mounting for the valve stems provided with a non-rotative bearing member near one end in which such mounting is journalled, said bearing member having means for anchoring engagement with a steady rest on the carriage, said mounting having a portion for engagement with a tail stock centering pin and another portion adapted for thrust bearing engagement with the non-rotative bearing member.

1,786,024. POULTRY WATERER. JOHN B. OLSON, Fort Atkinson, Wis., assignor to James Manufacturing Company, Fort Atkinson, Wis., a Corporation of Wisconsin. Filed July 18, 1928. Serial No. 293,645. 8 Claims. (Cl. 119—73.)



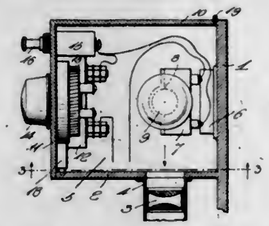
1. A poultry waterer comprising the combination with a supporting frame, of an elongated housing, a trough shaped tank capping the housing and spaced from one end thereof to form an outlet flue, the upper portion of the housing being otherwise substantially closed against the escape of heated air and gases, a heater within the housing and water supply connections for the tank extending vertically through said flue and overhanging the tank adjacent thereto.

1,786,025. OPTICAL SYSTEM FOR REPRODUCING SOUND RECORDS. FREEMAN H. OWENS, New York, N. Y. Filed June 25, 1924. Serial No. 722,355. 8 Claims. (Cl. 179—1003.)



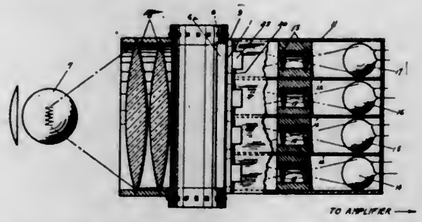
1. An optical system for reproducing photographic sound records comprising means for producing a converging beam of light, a gate having a slit located substantially at the focus of the light beam, the beam diverging from said slit for illuminating a sound record spaced in advance of said gate, and a second gate arranged in advance of the first gate immediately adjacent said sound record and spaced therefrom a distance substantially equal to the distance between said sound record and said first mentioned gate, the said second gate having a slit located in the diverging light beam effective for producing from said light beam a beam of light of reduced divergence for sound reproducing action on said record.

1,786,026. TALKING-PICTURE APPARATUS. FREEMAN H. OWENS, New York, N. Y. Filed June 13, 1927. Serial No. 198,648. 3 Claims. (Cl. 88—24.)



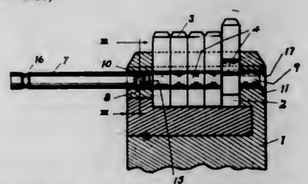
1. A lamp housing for talking picture projecting machines comprising a box like structure having a plurality of side walls two of which are integrally connected and hingedly attached to a third side permitting two complete sides of said structure to be swingingly moved together with respect to the other sides for easy access to the inside of the housing, an adjustable support for a light source, a lens system at one side of said lamp housing to which said light source is aligned and electrical instruments carried by one of the integrally connected side walls of said box like structure for governing and observing the operation of said light source.

1,786,027. APPARATUS FOR REPRODUCING PHOTOGRAPHIC SOUND RECORDS. FREEMAN H. OWENS, New York, N. Y. Filed July 13, 1927. Serial No. 205,442. 3 Claims. (Cl. 179—100.3.)



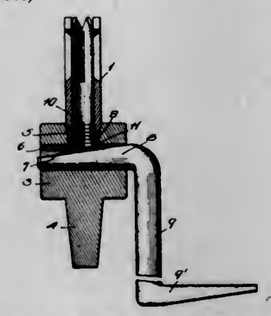
1. In a device for the reproduction of sound records the combination comprising a strip of film bearing a plurality of sound records, a light source for said records, independent photo electric cells for each of said sound records, a slit member through which the light rays from said source pass from said sound records to said photoelectric cells and means for independently controlling the amount of light passing through each record to its photo electric cell, said means comprising a plate past which said film moves and provided with an opening for each record in alignment with said slit member, and shutter members for adjusting the size of each opening.

1,786,028. STAMPING HEAD. OSCAR M. PANNIER, Pittsburgh, Pa., assignor to Pannier Bros. Stamp Company, Inc., Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 19, 1929. Serial No. 372,096. 1 Claim. (Cl. 101—28.)



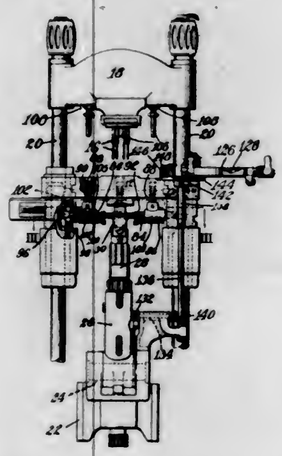
A stamping head comprising a body having a type receiving recess therein and a groove in a side of the body extending longitudinally of the recess, a locking bar arranged to lie in the groove in the side wall of the body and having a circumferential groove adjacent both ends thereof, type insertable in said recess and formed to engage said locking bar, and a spring pressed member housed in an end wall of the body and arranged to alternatively engage the circumferential grooves adjacent the ends of the locking bar to detain the locking member in adjusted position longitudinally of the body of the stamping head, said spring pressed member being so arranged in the body of the stamping head and in circumferential grooves so disposed adjacent the ends of the locking bar that the locking bar is detained in locking position by engagement of the spring pressed member in one of said grooves and may be held in outward position beyond the recess in the body of the stamping head without completely removing it from the stamping head by engagement with the other of said grooves.

1,786,029. TOOL HOLDER. JOHN H. PHILLIPS, Chicago, Ill. Filed Nov. 24, 1924. Serial No. 751,896. 3 Claims. (Cl. 279—103.)



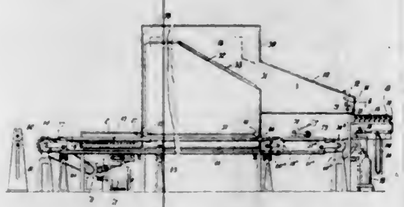
1. In a device of the kind described and in combination, a tool holder arranged for attachment to a cooperating part and provided with a tapered tool-receiving recess, said holder provided with an opening extending transversely therethrough disposed to intercept said recess, and a crank-shaped tool-removing member insertable through said opening and rotatable therein, said tool-removing member provided with a flat cam face at one side thereof and rounded over at the edges.

1,786,030. ART OF SHOEMAKING. ELMER R. POPE, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed June 11, 1925, Serial No. 36,388. Divided and this application filed Feb. 4, 1930. Serial No. 425,879. 8 Claims. (Cl. 12—142.)



1. The method of applying counters to shoes, which consists in associating a counter with a shoe-upper, providing an adhesive between the counter and upper, and exerting tension upon the front of the upper to draw the rear into engagement with the counter.

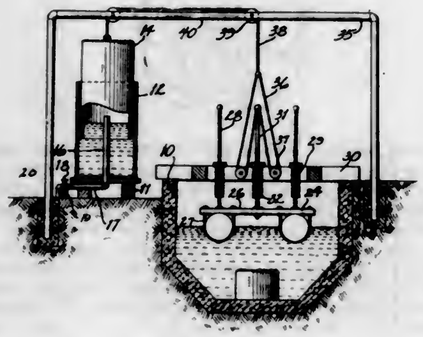
1,786,031. APPARATUS FOR DYEING, COLORING, AND COATING. LESTER C. SCOTT, Brooklyn, N. Y., assignor, by mesne assignments, to Two-Tone Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 6, 1926. Serial No. 100,046. 11 Claims. (Cl. 8—18.)



1. A dyeing or coloring apparatus comprising a dye chamber, a tenter frame mechanism in said dye chamber including a plurality of pin clips, and means for cleaning said clips.

1,786,032. SEWAGE-DISPOSAL-PLANT PUMP. THOMAS B. SIMS, Cleburne, Tex., assignor to L. J. Wardlaw, Tarrant County, Tex. Filed Aug. 13, 1928. Serial No. 299,276. 3 Claims. (Cl. 230—80.)

1. In a pump, a pair of containers each holding water, domes telescoping into the containers and having their lower ends immersed in the water, gas pipes in each container extending above the water therein, a pair of floats operating in unison, means connecting one float to raise one of the domes in a descending movement of the float, means connecting the other float to raise the other dome in an ascending movement of the float, whereby one dome is raised and the other dome is lowered when the floats are raised together and lowered together, gas suction



pipes including check valves connected with the gas pipes, and gas discharge pipes connected with the gas pipes and including check valves.

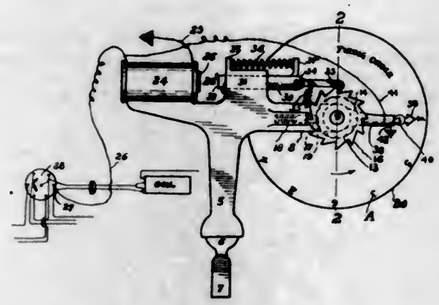
1,786,033. ADVERTISING DEVICE. LE ROY W. SMITH, St. Louis County, Mo., assignor to The Mirror Display Co., Inc., St. Louis, Mo., a Corporation of Missouri. Filed May 4, 1928. Serial No. 275,006. 1 Claim. (Cl. 40—132.)



An advertising device comprising base and side frame members having two spaced grooves therein; a frame top member having an elongated opening therethrough communicating with said grooves; a mirror panel having its lower and side edges seated in one of said grooves; an advertising display element having its lower and side edges seated in the other groove and including two glass panes, and an interposed sheet of translucent material; and means securing together the upper edges of said panes and forming a finger-piece for withdrawing said panes through said opening in said frame upper member.

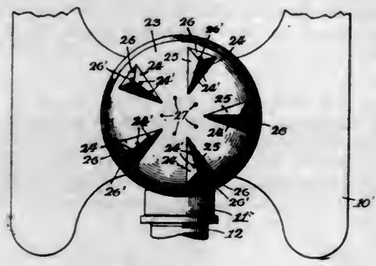
1,786,034. INDICATOR FOR INTERNAL-COMBUSTION ENGINES. FREDRICK WILLIAM SMITH, Niagara Falls, Ontario, Canada. Filed June 21, 1929, Serial No. 372,791, and in Canada June 5, 1929. 11 Claims. (Cl. 177—311.)

2. An indicator of the class described comprising a rotatably mounted dial having indicia denoting the firing order of an internal combustion engine, indicating means coacting with said indicia, and electro-mechanical means for electrical connection to the ignition system of the



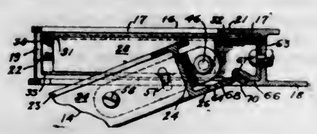
engine and so adapted that as the crankshaft is turned said dial will be intermittently operated so as to successively bring its indicia into register with the indicating means.

1,786,035. SPRINKLER. WILLIAM STEININGER, Berwyn, Ill., assignor to W. D. Allen Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 28, 1928. Serial No. 281,209. 4 Claims. (Cl. 299—69.)



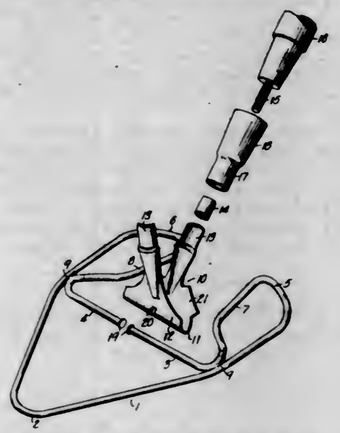
1. In a sprinkler of the type described, a hollow rotary sprinkler head having an exteriorly convex top wall formed with spaced radially disposed hollow ridges each formed with two side walls and an outer end wall, one side wall and the outer end wall of each ridge being perforated.

1,786,036. SASH MOUNTING. JAMES ADAMS STEWART, Oakland, Calif., assignor to Management and Finance Corporation of California, San Francisco, Calif., a Corporation of California. Filed June 7, 1928. Serial No. 283,547. 13 Claims. (Cl. 16—179.)



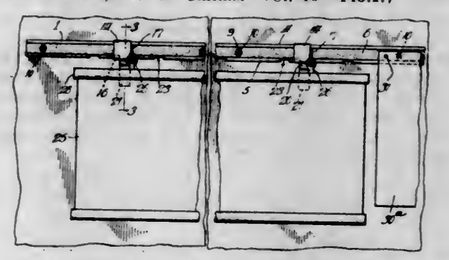
1. In a supporting means for a sash, a guideway, an elongated shoe slidably engaged with and arranged for movement transversely of said guideway and having the sash pivoted thereto adjacent an end thereof, and means yieldingly urging said shoe in a reverse direction transversely of said guideway.

1,786,037. MOP HEAD. HERBERT M. STURGIS, Kansas City, Mo., assignor, by mesne assignments, to Leigh Hunt, Kansas City, Mo. Filed June 17, 1929. Serial No. 371,507. 3 Claims. (Cl. 15—229.)



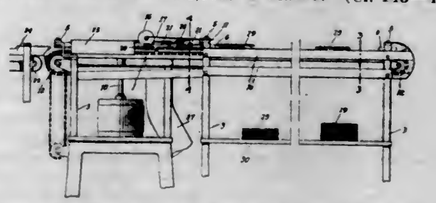
1. In a mop head, a frame including aligning, transverse pivot bars terminating in spaced relation and a slotted handle shank pivotally mounted on said bars, the bars having end flanges freely rotative in the shank slot for limiting transverse movement of the shank.

1,786,038. APPARATUS FOR MAP DISPLAY. FRANK H. SWANSON, Chicago, Ill., assignor to A. J. Nystrom & Co., a Corporation of Illinois. Filed Oct. 7, 1927. Serial No. 224,650. 10 Claims. (Cl. 40—145.1.)



1. As an article of manufacture, a slidable suspension clip comprising a body portion having inwardly turned flanges adapted to receive and ride upon a supporting member, a hook connected to said body portion adapted to support a map, chart, and the like, and a downwardly extending lateral extension formed integral with said body portion adapted to serve as a fender for maintaining the chart supported by the hook away from the wall.

1,786,039. SLAT-EDGING MACHINE. JOHN J. SYLVA, Stockton, Calif., assignor to California Cedar Products Company, Stockton, Calif., a Corporation. Filed Apr. 9, 1928. Serial No. 268,466. 5 Claims. (Cl. 143—49.)



1. A slat edging machine including a plurality of separate slots of different depths, to receive slats therein ini-

tially projecting above the tops of the slots, said slots being formed by lower side bars, upper gage bars transversely alined therewith and spaced therefrom and flooring plates between the side bars at different levels in the respective slots, endless elements disposed to the sides of the slot structure, cross members secured to the elements at intervals and extending across all the slots in the space between the upper and lower side bars, and a horizontal saw extending across the slots above the upper bars and toward which the upper runs of the elements are adapted to move.

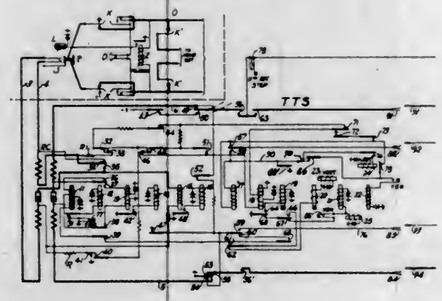
2. A slat edging machine including a plurality of slots to receive slats therein, a saw associated with the slots to cut off the portions of all the slats in the different slots which project above the saw, and means for feeding the slats toward the saw including members extending across all the slots to simultaneously engage the back edges of all the slats intermediate their top and bottom edges.

1,786,040. SCREEN MOUNTING. WILLIAM HENRY TAYLOR, Des Moines, Iowa. Filed Mar. 24, 1930. Serial No. 438,447. 7 Claims. (Cl. 156—14.)



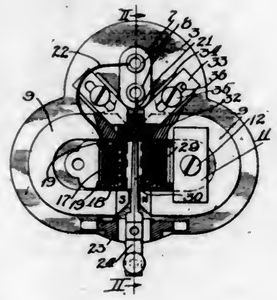
4. For use with a window frame having locking lug openings, a screen frame having perforated lugs, clamping bolts extending through said lugs, and locking lugs on said clamping bolts and adapted to coact with said locking lug openings.

1,786,041. AUTOMATIC TOLL-SERVICE TRUNKING SYSTEM. VICTOR S. THARP, Elmhurst, and JOHN WICKS, Oak Park, Ill., assignors to Reserve Holding Company, Kansas City, Mo., a Corporation of Delaware. Filed Oct. 10, 1927. Serial No. 225,063. Renewed Mar. 21, 1930. 24 Claims. (Cl. 179—27.)



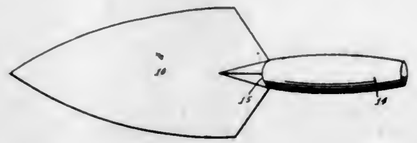
1. In a telephone system, two automatic switches, means for successively operating said switches to extend a connection, a double wound relay in the first switch, means for continuously energizing said relay over a local circuit including one of its windings responsive to the seizure of and during the operation of the first switch, means for energizing said relay over its other winding over a circuit extending to the second switch at the completion of the operation of the first switch, means including said local circuit for maintaining said relay energized during the operation of the second switch, means in the second switch for opening said second circuit at the completion of the operation of the second switch, and a signal controlled by said relay.

1,786,042. ELECTRIC PICK-UP DEVICE. EDWARD TOMAN, Chicago, Ill., assignor to E. Toman & Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 23, 1929. Serial No. 394,429. 15 Claims. (Cl. 179—100.41.)



1. In an electrical pick-up, a support, complementary permanent magnets connected to the support and defining arms having confronting pole faces, each of said magnets having poles of opposite polarity, a coil between the arms of the magnets, a vibratable armature extending through said coil and disposed between the pole faces of the magnets, and a stylus bar operatively associated with the armature.

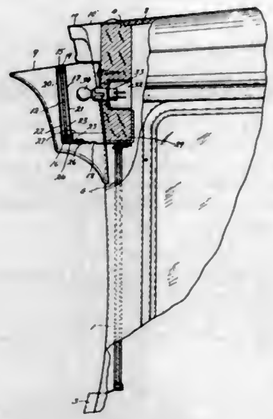
1,786,043. HANDLE FOR TROWELS. JESSE B. TROUTNER, Marshalltown, Iowa, assignor to Marshalltown Trowel Company, Marshalltown, Iowa. Filed July 12, 1927. Serial No. 205,148. 1 Claim. (Cl. 306—44.)



An improved trowel comprising a blade, a tang formed integral with the blade and extended upwardly and rearwardly, a handle formed of moldable material and molded to cover the rearwardly extending portion and the upper end of the upwardly extending portion of said tang, the lower end of the downwardly extending portion of said handle being tapered to the diameter of the adjacent tang portion, whereby the handle will be held rigidly against rotatable and longitudinal movement of the rearwardly extending portion, and whereby the upwardly extending portion of the tang will be covered by said molded portion to protect the operator's hand from engagement with the tang, and to provide means whereby the tang and the adjoining handle portion may be easily and quickly cleaned.

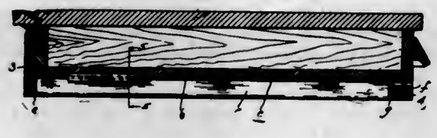
1,786,044. VEHICLE FRONT-END ASSEMBLY. FRANK RUSSELL VALPEY, Royal Oak, Mich., assignor to Graham-Paige Motors Corporation, Detroit, Mich., a Corporation of Michigan. Filed Dec. 23, 1929. Serial No. 416,134. 8 Claims. (Cl. 40—130.)

7. In a vehicle body front end construction, the combination with a windshield header and a windshield suspended from said header, of a bridge secured between said windshield and header and projecting forwardly therefrom, a sunshield secured to said header adjacent the upper edge thereof and projecting forwardly therefrom,



and a sheet of transparent material secured between said bridge and sunshield in substantially parallel relation to said header.

1,786,045. DRAWER GUIDE. FRITZ VOGT, Portland, Oreg. Filed Sept. 27, 1928. Serial No. 308,616. 2 Claims. (Cl. 45—77.)



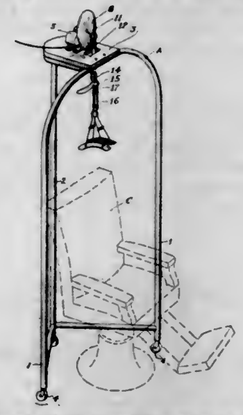
1. In a structure having a drawer, a drawer-guide comprising a one-piece metal sheet formed U-shaped in cross-section, with the upper extremities of the legs bent outward at right angles to provide lateral guide-flanges, the said legs having substantial height, the opposite ends of the legs having portions longitudinally slitted, and such portions being bent to project laterally, to provide ears adapted for being fastened to the interior faces of the frame-bars of the structure, with the end portions of the drawer guide above said ears, extending over and supported by said frame-bars, whereby to brace the latter, in combination with a drawer provided on its underside with guide-means cooperating with said drawer guide.

1,786,046. EXPLOSIVE. CHARLES H. WATERS, Olympia, Wash., assignor to Dumor National Chemical Company, Lacey, Wash., a Corporation of Washington. Filed Mar. 26, 1927. Serial No. 178,812. 2 Claims. (Cl. 52—13.)

1. An explosive containing a chlorate, liquid mononitrotoluol about three parts, and liquid dinitrotoluol about eleven parts.

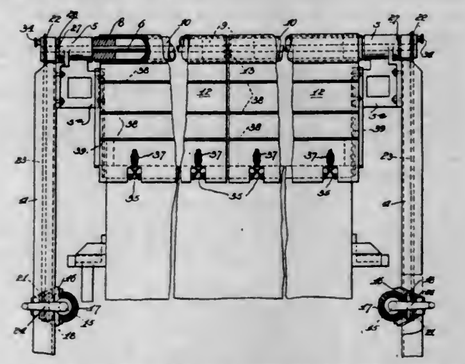
1,786,047. MECHANICAL HAIR GLAND AND NERVE AGITATOR. ALBERT R. WILCOX, Dodge City, Kans. Filed Oct. 14, 1929. Serial No. 399,610. 3 Claims. (Cl. 128—24.)

1. In a mechanical hair gland and nerve agitator, a pair of arcuate jaws and a resilient yoke to carry the jaws, and means to clamp the jaws together, an elastic pendent supporting means for the yoke, and a rotatably



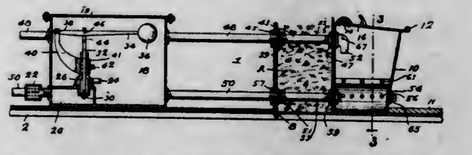
arranged disc to which the elastic means is attached, and means to rotate the disc, as a reciprocating means for the jaws.

1,786,048. FLEXIBLE COVER FOR DUMPING BODIES. LEROY E. WILLIAMS, Edgerton, Wis., assignor to Highway Trailer Company, Edgerton, Wis., a Corporation of Wisconsin. Filed Jan. 11, 1928. Serial No. 245,844. 4 Claims. (Cl. 296—98.)



1. A cover for a vehicle body comprising a shaft mounted to extend longitudinally over the load-carrying space of the body, brackets in which said shaft is supported, a roller loosely mounted on the shaft and a flexible cover secured to the roller extensible over the load-carrying space, together with means for rotating the roller to wind said cover thereon comprising a sleeve loose on the shaft and connected to said roller, said sleeve extending through one of the brackets and journaled therein, and gearing connected for driving the sleeve to rotate the roller.

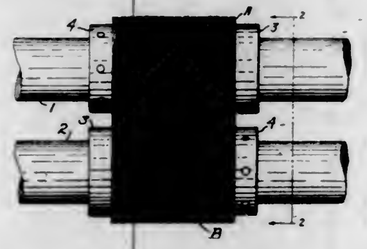
1,786,049. STOCK WATERER. MILTON G. ZOELLER, Falls City, Nebr. Filed July 12, 1929. Serial No. 377,699. 5 Claims. (Cl. 119—73.)



1. A portable watering apparatus of the character described consisting of a main tank, a trough located close

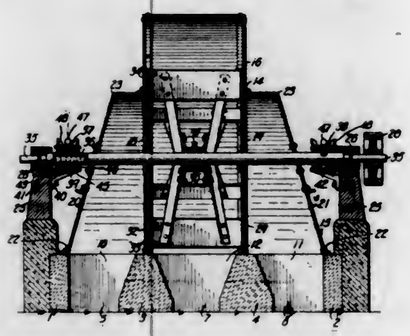
to said tank, an auxiliary tank located within said main tank, an inlet chamber in said auxiliary tank, a float-controlled valve for admitting water from said inlet chamber to the auxiliary tank, and pipe connections between the trough and said auxiliary tank.

1,786,050. ROTARY SPIRAL SLITTING CUTTER. FRED C. AREY, Oak Park, Ill.; assignor to John W. Gleason, Pittsburgh, Pa.; Frank W. Bora, New York, N. Y.; William F. Freudenreich, Kenilworth, Ill.; Frederick H. Chetlain, Chicago, Ill.; and himself, trustees. Filed July 28, 1927. Serial No. 208,917. 3 Claims. (Cl. 164—6.6.)



1. In a rotary slitting cutter, an arbor, a plurality of collars slidably fitted upon the arbor and each keyed thereto to prevent relative rotary movements between the collars and the arbor, said collars having a series of registering openings extending through the same parallel to the long axis of the arbor and spaced at equal distances apart from each other, cutter units abutting against the arbor alternating with the collars and having openings registering with the aforesaid openings, and long pins extending through the openings in the collars and in the cutter units to lock the collars and cutter units together and index the cutter elements of said units.

1,786,051. FAN. WARD T. BARKER, Kansas City, Mo. Filed Feb. 1, 1928. Serial No. 251,044. 5 Claims. (Cl. 230—209.)



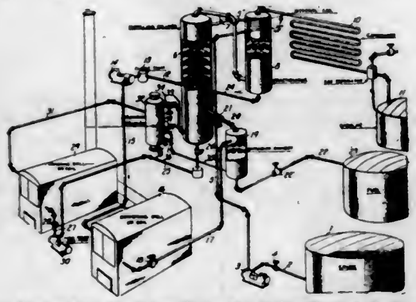
1. A fan of the character described including a housing having side intake and peripheral discharge ports, hoods at the sides of the housing for directing flow to said intake ports, bearing exterior to and spaced from said hoods, a hollow shaft journalled in said bearings and projected through the hoods and housing, and having ports between the hoods and bearings, a fan on said shaft within the housing, and manifolds on the ported portions of said shaft for effecting circulation of cooling medium through the shaft.

1,786,052. CURTAIN FIXTURE. JAMES H. BOYE, Chicago, Ill., assignor to James H. Boye Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 21, 1930. Serial No. 454,248. 8 Claims. (Cl. 156—20.)



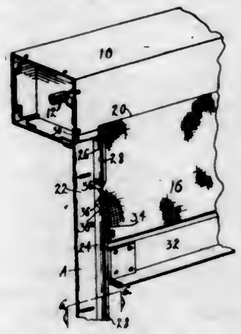
1. A cord guide for a draw-cord curtain fixture, comprising a frame formed with parallel sides telescopable within an end of a hollow curtain rod, a guide sheave journaled between said sides, and a laterally projecting stop member on one of said sides adapted to abut against an end of the rod.

1,786,053. METHOD OF AND APPARATUS FOR TREATING HYDROCARBON OILS. JOHN W. COAST, Jr., Tulsa, and GORDON T. GRANGER, Okmulgee, Okla. Filed Dec. 11, 1926. Serial No. 154,139. 14 Claims. (Cl. 196—58.)



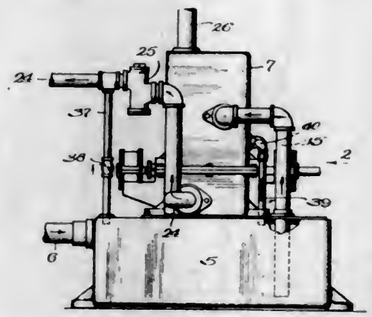
8. The method of continuously skimming and cracking hydrocarbons which comprises preheating a stream of charging stock in a reflux condenser and thereby vaporizing the lightest fraction from the stream, continuing the skimming operation by forcing the unvaporized oil through a skimming still without substantially cracking the constituents of said oil, subjecting the resultant vapors to reflux condensation in said reflux condenser, forcing the reflux condensate through a cracking still under pressure so as to crack the said reflux condensate, vaporizing the cracked condensate, subjecting the cracked vapors to reflux condensation, and adding the cracked reflux condensate to reflux condensate produced in said skimming operation.

1,786,054. ROLLER-SCREEN STRUCTURE. HARRY DIXSON, Pella, Iowa, assignor to Rolscreen Company, Pella, Iowa. Filed Feb. 19, 1927. Serial No. 169,554. 2 Claims. (Cl. 156—39.)



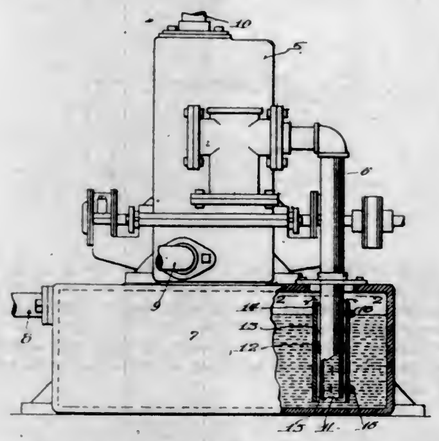
1. In a structure of the class described, a guide track having an attaching flange, a tubular portion provided with a slot opening away from the flange, said guide track being provided at a point spaced from its ends with a notch extending from the slot substantially into the tubular portion and having its upper side edge arranged at an angle to horizontal.

1,786,055. VACUUM CONDENSATION PUMP. AUGUSTUS C. DURDIN, Jr., Chicago, Ill. Filed Dec. 12, 1928. Serial No. 325,588. 15 Claims. (Cl. 103—5.)



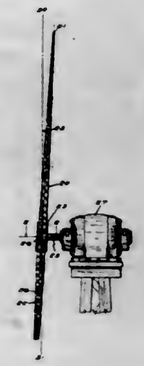
1. In a vacuum condensation pump, the combination of a reservoir into which water, air and other condensates are delivered, said reservoir being open to the outer atmosphere, a water pump for discharging water from said reservoir, a discharge pipe leading from said water pump, and a normally closed pressure operated valve device in said discharge pipe capable of opening solely in response to pressure by said water pump in excess of a predetermined low pressure.

1,786,056. PUMPING APPARATUS. AUGUSTUS C. DURDIN, Jr., Chicago, Ill. Filed July 12, 1929. Serial No. 377,648. 3 Claims. (Cl. 103—7.)



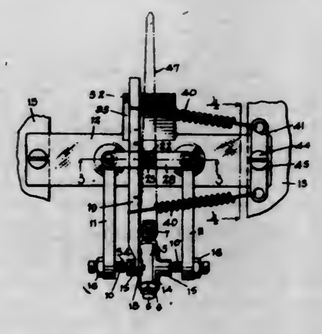
1. In pumping apparatus, the combination of a closed receiver for liquid and other fluids, a vacuum pumping element thereabove, an inlet pipe leading from the lower part of said receiver to the pumping element, a conduit for other fluids, said conduit being contained entirely within said receiver and surrounding the lower end of said inlet pipe and forming an annular air channel around said inlet pipe, said conduit being in open communication with the upper part of the receiver and opening directly to the inlet end of the inlet pipe.

1,786,057. TURBINE. ELISHA N. FALES, Dayton, Ohio. Filed July 14, 1924. Serial No. 725,894. 21 Claims. (Cl. 170—162.)



1. In a wind driven apparatus of the character described, a shaft, a two bladed propeller mounted thereon for revolution about the axis of said shaft, said propeller being mounted for movement at right angles relative to the axis of said shaft and the longitudinal axis of the blades and having such unsymmetrical distribution of its mass and form with relation to the axis of said shaft as to automatically counter-balance variously changing aerodynamic forces upon the propeller, which are unsymmetrically distributed relative to the axis of said shaft.

1,786,058. INDICATOR FOR WEIGHING SCALES. FRANK C. FISHER, Toledo, Ohio. Filed July 17, 1930. Serial No. 468,651. 5 Claims. (Cl. 116—129.)

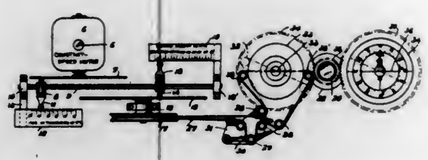


1. In an indicator, an actuating member, a rack, an adjustable lever interconnecting the actuating member and the rack, one end of the rack supported by the lever, a bracket having a rounded edge for slidably supporting the other end of the rack, a pinion operated by the rack, and a pair of tension springs connected to the rack at points substantially equi-distant on opposite sides of the axis of the pinion, and means for subjecting the springs to a tension to press the rack against the pinion.

1,786,059. AERONAUTICAL INDICATOR. WILLIAM FRASER, Arvida, Quebec, Canada. Filed Apr. 12, 1929. Serial No. 354,536. 2 Claims. (Cl. 33—46.5.)

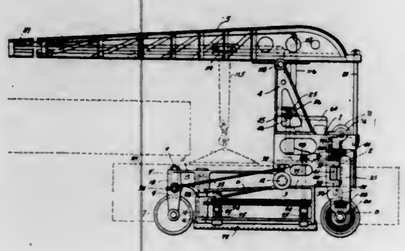
1. An aeronautical indicator of the class described comprising a downwardly directed telescope having a ro-

tary eye-piece, a pair of pulleys disposed on diametrically opposite sides of said eye-piece, a stationary support situated laterally of said telescope, a series of pulleys mounted on said support, a rotatably mounted sheave wheel,



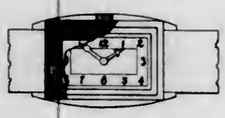
an endless thread trained over all of the aforesaid pulleys and said sheave wheel, said thread having a portion of its length diametrically extending through said telescope eye-piece, and means for driving said sheave wheel and varying its speed.

1,786,060. LUMBER CARRIER. FREDERICK G. GREAVES and SERN P. WATT, Seattle, Wash. Filed Aug. 29, 1927. Serial No. 216,244. 1 Claim. (Cl. 212—141.)



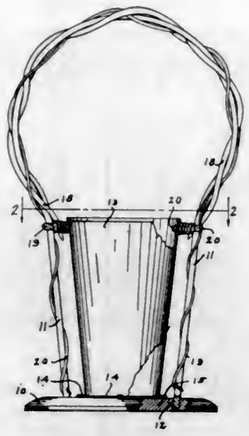
In a lumber carrier of the character described, opposite side frames, a pair of vertical screws rotatably mounted in each side frame, and a pair of angle bars for engaging beneath the opposite side edges of a load, each of said bars having lugs thereon through which the screws extend, means for rotating all of the said screws in unison to raise or to lower the angle bars.

1,786,061. WATCHCASE. OSCAR GRUBER, St. Paul, Minn. Filed Nov. 30, 1928. Serial No. 322,775. 7 Claims. (Cl. 58—105.)



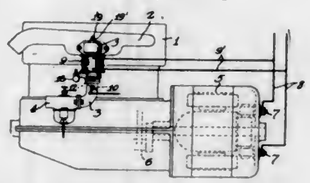
1. In a watch case having a removable casing, a removable ring secured thereto, said ring having a plurality of spacedly disposed apertures therein, an inner casing having a time indicating mechanism secured therein, said inner casing having a plurality of recesses in said inner casing disposed opposite the apertures in said ring, and resilient means in each of said apertures and the oppositely disposed recesses.

1,786,062. FLOWER BASKET. FRED P. GRUENHOLZ and ANDREW A. GRUENHOLZ, Terre Haute, Ind. Filed July 15, 1929. Serial No. 378,251. 6 Claims. (Cl. 47—41.)



4. In a flower basket, a base, a water receptacle resting on the base, a flange extending from the lower end of the receptacle and secured to the base, a handle secured to said receptacle near its upper end and tie pieces wrapped about the handle and laced through holes in the receptacle.

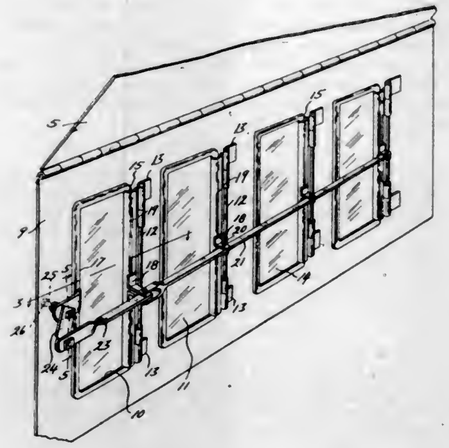
1,786,063. VOLTAGE REGULATOR FOR INTERNAL COMBUSTION ENGINE-DRIVEN ELECTRIC GENERATORS. HAROLD D. GUMPPER, Detroit, Mich. Filed Aug. 2, 1929. Serial No. 383,104. 6 Claims. (Cl. 290—40.)



1. In combination with a gas engine having an intake pipe and a generator driven by said engine, a solenoid surrounding the intake pipe of said engine and connected across said generator, a core slidable in said pipe and within said solenoid, and a valve in said pipe and connected to said core to be closed on attraction of said core by said solenoid.

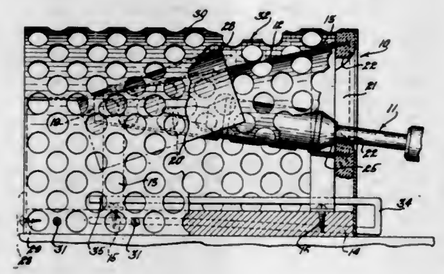
1,786,064. VENTILATOR SYSTEM. MATT HAPPONE, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed May 6, 1929. Serial No. 360,903. 1 Claim. (Cl. 180—69.)

In combination, an automobile hood having a series of vent openings therein, closures for said openings, a bracket secured to said hood, actuating means for said closures including a rod upon the inner side of said hood connected to said closures, an operating member upon the outer side of said hood, an operating connection between said rod and operating member including a part extending through said hood and bracket, and yieldable means



associated with said bracket for yieldingly retaining said part in adjusted position and preventing said part from rattling.

1,786,065. HOLDER FOR HEATED DEVICES. HARRY TOMAS HEIMBERGER, Riverside, and EMERSON PUGH, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 30, 1927. Serial No. 236,627. 11 Claims. (Cl. 257—263.)

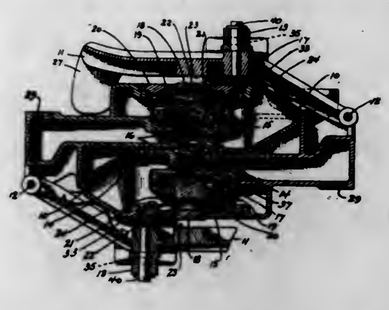


1. In a holder for heated devices, a supporting means, means for preventing accidental displacement of the heated device from the supporting means, a guard having an enlarged opening in its periphery, and means for deflecting heated air from said heated device away from the major portion of the guard and toward the opening in the guard.

1,786,066. TRAIN-PIPE COUPLER. EDWARD O. HERMANN, Mill Valley, Calif., assignor to Cobb Connector Company, Los Angeles, Calif., a Corporation of Arizona. Filed Sept. 12, 1928. Serial No. 305,461. 5 Claims. (Cl. 285—24.)

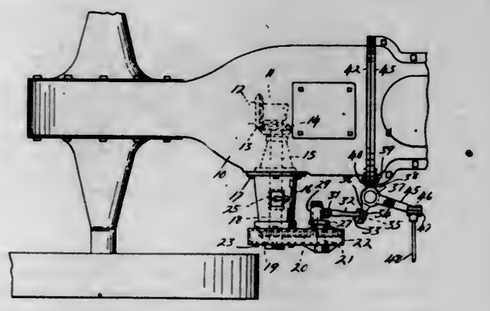
1. In a train pipe coupler, the combination of a pair of cooperating couplers comprising interlocking heads having ports in their engaging faces adapted to align when the couplers are in operation, a chamber formed in each of said heads opposite said ports and communicating with the interior thereof, a non-metallic diaphragm arranged in said chamber and exposed on one side to fluid pressure

when said heads are coupled, and a plunger movably mounted adjacent said diaphragm and actuated thereby,



said plunger engaging a part of the cooperating coupler head to press said heads with their aligned ports into sealed engagement.

1,786,067. DRIVING ATTACHMENT FOR TRACTORS. JOSEPH E. HORSTE, Detroit, Mich., assignor to Detroit Harvester Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 30, 1928. Serial No. 274,073. 2 Claims. (Cl. 74—7.)

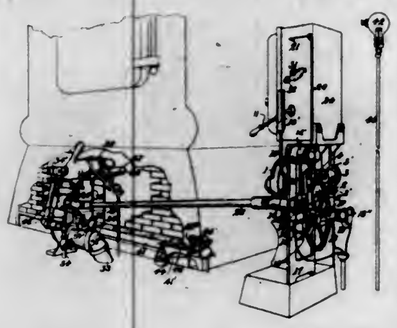


1. A power take-off attachment for tractors including a housing attachable to a part of the tractor, parallel shafts in the housing, one of said shafts constituting the driving shaft of the attachment, the other shaft constituting the driven shaft of the attachment, gearing in the housing operatively connecting said shafts, a gear carried by the driving shaft at one end thereof and engageable directly with the power take-off gear of the tractor, a bracket attachable to another part of the tractor, a bell crank lever having a pivot in the bracket in a plane at substantially right angles to the driven shaft, an eccentric at one end of the driven shaft, a link terminally connected to the eccentric and to one end of the lever, and a pitman terminally connected to the other end of the lever.

1,786,068. BURNER CONTROL. BENJAMIN W. HURD, San Francisco, Calif., assignor to Turbine Fuel Oil Burner Co., San Francisco, Calif., a Corporation of Nevada. Filed July 1, 1924. Serial No. 723,532. 13 Claims. (Cl. 158—28.)

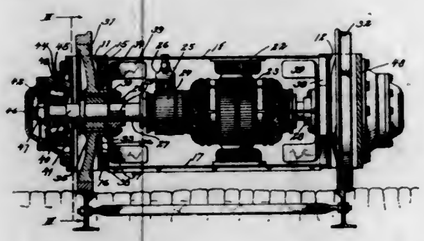
1. An operating and control mechanism for hydrocarbon fuel burners of the class wherein the burner is movable into and out of firing position, and a power driven mechanism supplies air to the burner; comprising an oscillating means having connection for moving said burner, a rotary power supply means, a connecting means between said rotary power supply means and said oscillating means

for operating said oscillating means in the rotation of the power supply means, means operated by said power sup-



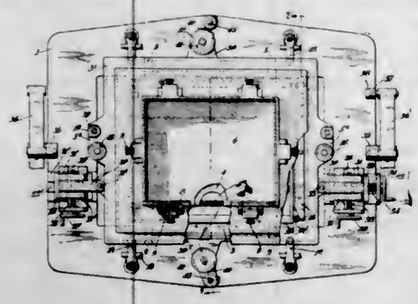
ply means controlling the operation of said air supply means, and means automatically controlling said power supply means in a predetermined manner.

1,786,069. ELECTRIC MOTOR TRUCK. REED E. JACOBS, Berkeley, Calif. Filed Nov. 15, 1926. Serial No. 148,438. 19 Claims. (Cl. 105—57.)



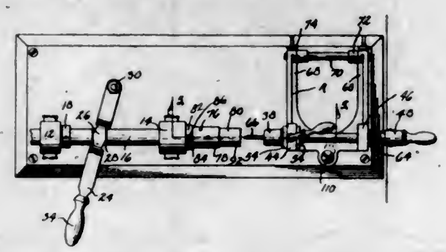
1. An electric motor truck, comprising a main frame, wheels constituting a running gear for said truck, said wheels being independently mounted upon the outer sides of the main frame, separable motor structures interposed between complementary wheels, and means for coupling the motor structures between said complementary wheels to produce driving rotation thereof.

1,786,070. APPARATUS FOR MAKING REGISTERED PRINTS. HARRY C. JONES, New York, N. Y. Filed Apr. 21, 1926. Serial No. 103,462. 6 Claims. (Cl. 95—73.)



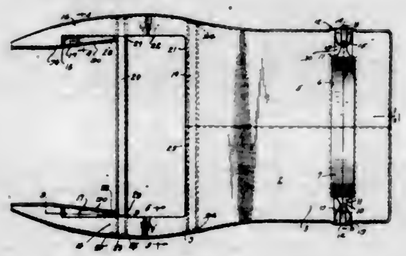
3. In an apparatus for registering prints, a holding base frame, posts on the base, a lower frame that rests on the posts, clamping means on the lower frame for securing a plate by its margins, means for adjusting the lower frame laterally in all directions and which will cause the replacing of the frame after removal in the exact position to which it was adjusted before removal, an upper frame superposed on the lower frame, means carried by the upper frame for clamping a plate thereon by its margins in proximity to the said plate on the lower frame, means for adjusting the upper frame vertically, and means on the base for securing the upper frame in adjusted positions.

1,786,071. SAW-SETTING DEVICE. HARRY H. KNOTT, Washington, Iowa, assignor to American Pearl Button Company, Washington, Iowa. Filed Mar. 5, 1929. Serial No. 344,272. 8 Claims. (Cl. 76—58.)



1. A tubular saw setting device comprising means for supporting a tubular saw and for moving it longitudinally of its axis, a roller of substantially the same external diameter as the interior diameter of said saw and adapted to be received in said saw, said roller having lugs for setting a portion of the teeth of said saw, a second roller cooperatively associated therewith for setting the remaining portion of said teeth and means to rotate the saw while the teeth thereof are being set.

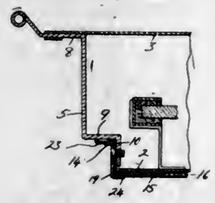
1,786,072. SILL CONSTRUCTION. WILLIAM MARSHALL, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 10, 1924. Serial No. 749,018. 12 Claims. (Cl. 296—28.)



4. In a vehicle body, the combination with a sheet metal sill having a depending flange, and a depressed portion for receiving floor boards, of a reinforcing cross bar having flanges secured to the flange aforesaid, a stiffening flange at one edge of said cross bar, and a stiffening flange projecting from the depressed portion of the sill member secured to the stiffening flange of said cross bar.

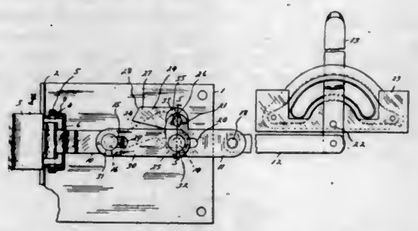
12. In a vehicle body, a sill member having a depending flange and a depressed portion for receiving floor boards, said depressed portion having a depending flange terminating in a horizontal flange, and an inverted channel-shaped cross bar having a horizontal flange secured to the horizontal flange aforesaid and having a vertical flange secured to the depending flange of said sill member.

1,786,073. TRIMMING HOLDER. WILLIAM MARSHALL, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed June 14, 1926. Serial No. 115,980. 3 Claims. (Cl. 45—138.)



1. In a door the combination with a panel having a lateral flange and a pillar having a marginal flange provided with a lateral portion secured to the flange of the panel, of a finish strip consisting of a central intermediate portion secured to the lateral flange of the panel, a flange extending from one edge thereof and cooperating therewith for concealing the joint between the panel flange and lateral portion of the pillar and a second flange extending from the other edge of the central portion and cooperating with a portion of the panel for holding a trimming for the door.

1,786,074. REMOTE CONTROL MECHANISM FOR DOOR LATCHES. WILLIAM MARSHALL and PAUL CAMENER, Detroit, Mich., assignors to Briggs Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 22, 1926. Serial No. 156,432. 21 Claims. (Cl. 292—227.)



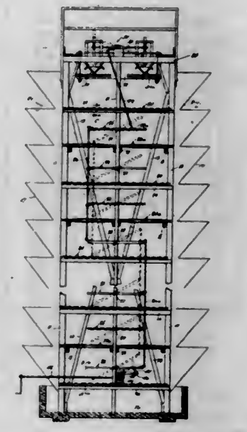
1. In a latch, the combination with a latch bolt, and means for retracting said bolt including links connected to the bolt and operable independently of each other for retracting said bolt, of means for actuating one of said links, and means for dogging the other of said links including means movable into the path of the first mentioned link and operable by the actuating means aforesaid.

1,786,075. METHOD OF RECLAIMING OR IMPROVING GUM EXUDATES. CHARLES MARTELL, Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 6, 1925. Serial No. 28,511. 14 Claims. (Cl. 18—49.)

1. A method of reclaiming an inferior unvulcanized gum exudate, which consists in treating the gum exudate in the presence of a relatively small quantity of latex until a quantity of the gum in the latex has been absorbed by the gum exudate.

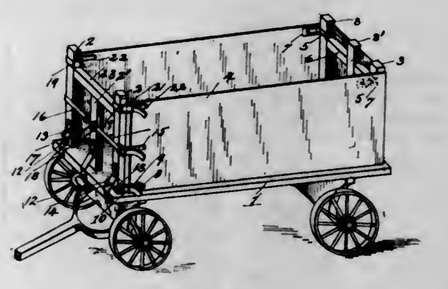
1,786,076. ATMOSPHERIC COOLING TOWER. GUY T. MARTIN, Los Angeles, Calif., assignor to Fluor Construction Co., Los Angeles, Calif., a Corporation of California. Filed July 2, 1928. Serial No. 290,005. 14 Claims. (Cl. 261—113.)

1. In an atmospheric cooling tower having an interior cooling chamber through which air currents are adapted to pass, a liquid distributing system associated with the chamber and having delivery means whereby liquid is discharged so as to fall through said chamber, valve means operable to control the discharge of liquid from



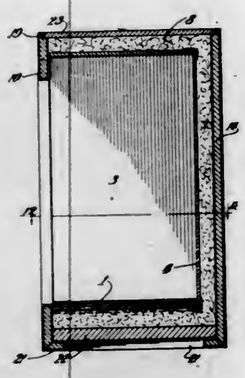
said system, means operable to control the passage of air currents through said chamber, and unitary means for simultaneously operating said valve means and said air passage control means.

1,786,077. ATTACHABLE WALL FOR PLATFORM STATION TRUCKS. WALTER A. MCCULLOUGH, Alliance, Ohio. Filed Sept. 23, 1927. Serial No. 221,445. 1 Claim. (Cl. 296—1.)



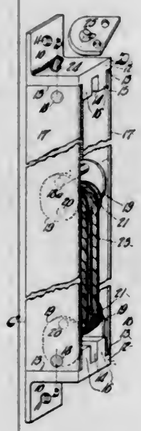
In a flexible and extensible wall for a standard station truck, in combination, a platform, vertical front and rear corner posts, angle braces connecting the platform with said front posts and horizontal transverse end bars connecting the posts at the ends of said platform, of a flexible wall passed around the sides and rear ends of said posts, elongated loops secured adjacent to the upper rear edges of said wall and passed over said rear posts, and slidably movable thereover and resting upon said rear horizontal bar, adjustable loops attached to the upper edges of said wall adjacent to the front edges thereof, said front loops being passed around the front corner posts of said truck and resting upon said front horizontal bar, an intermediate fastening means comprising an adjustable divided strap centrally connecting the end edges of said wall and a hook and edge connection between said strap members, and fastening means for the lower front edges of said wall comprising adjustable straps secured to said wall and angular hooks engaged with said angle braces for said front corner posts.

1,786,078. REFRIGERATOR STRUCTURE AND METHOD OF MAKING THE SAME. GEORGE R. MEYERCORD, Chicago, Ill., assignor to The Vitrolite Company, Parkersburg, W. Va., a Corporation of West Virginia. Filed Nov. 22, 1926. Serial No. 150,121. 5 Claims. (Cl. 217—3.)



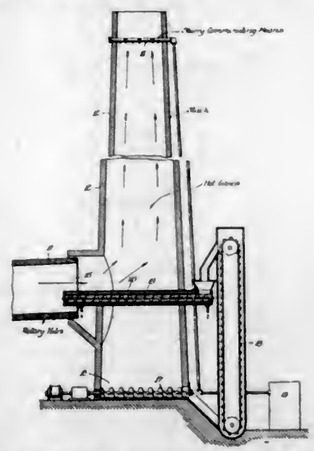
1. An article of manufacture in the form of a crock for a refrigerator comprising a box-like part open on one side and composed of five slabs cemented together, pieces of reticulated metal fitted over the corners between said slabs and cemented thereto, and a unitary shell of heat-insulating material fitting over the said box-like part and leaving the open side exposed.

1,786,079. BALANCING APPARATUS. FERDINAND MIELKE, Cleveland, Ohio. Filed May 16, 1927, Serial No. 191,572. Renewed May 28, 1930. 2 Claims. (Cl. 16—197.)



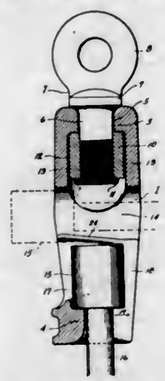
1. A balancing apparatus including a frame composed of a plurality of parts two of which are heads located on the ends of the frame and cages and sheaves and rope means and a spring therefor within the frame, each of said heads having a pair of inwardly extending ears to form a slot therein, an axle extending through one end of said frame and through said ears in said head thereon and through a portion of one of said cages extending into said slots in said head on said one end of the frame and holding all of the frame parts together at this one end, and an axle extending through the other end of said frame and through said ears in said head thereon and holding all of the frame parts together at this other end and serving as an anchor for one end of said spring.

1,786,080. CEMENT MANUFACTURE. RAY C. NEWHOUSE, Wilmette, Ill. Filed Aug. 13, 1927. Serial No. 212,772. 2 Claims. (Cl. 222—7.)



1. In combination, a rotary cement kiln, a vertical stack for receiving the hot gases from the kiln, into which the open end of the kiln extends, means for introducing a slurry of cementitious material in finely divided form into the upper portion of the stack, means in the lower part of the stack for collecting the dried material and means for conveying this material to, and introducing it into, the open end of the rotary kiln.

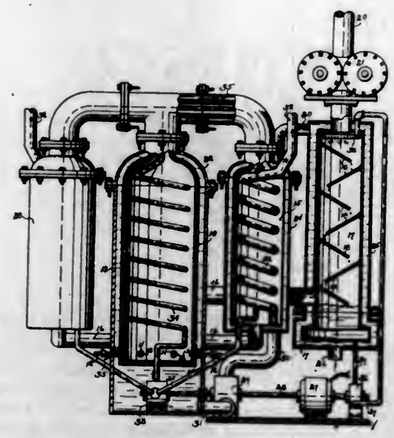
1,786,081. SWIVEL BUTT HOOK. WALTER H. NOURSE, Portland, Oreg., assignor to Electric Steel Foundry Co., Portland, Oreg., a Corporation of Oregon. Filed May 7, 1928. Serial No. 275,774. 3 Claims. (Cl. 24—123.)



1. A device of the character described, comprising a hook body provided in one end wall with an opening, a swivel having a shank portion rotatably fitted in the opening, a collar formed about the shank to engage the end of the hook to limit inward movement of the shank, a nut threaded onto the inner end of the shank for engaging the hook wall to prevent outward movement of the shank and an eyelet formed on the outer end of the shank for connection with a hauling means.

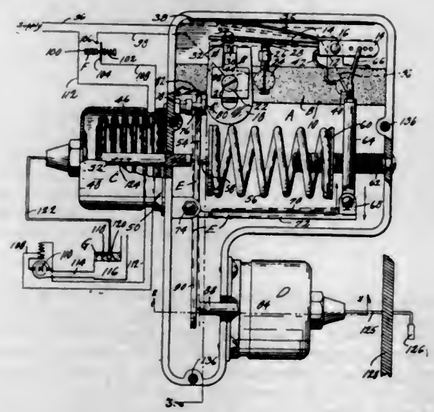
1,786,082. HIGH-THERMAL-EFFICIENCY FURNACE. WALTER T. PALMER, Des Moines, Iowa, assignor of one-half to Olof Olson, Des Moines, Iowa. Filed Nov. 21, 1928. Serial No. 320,943. 6 Claims. (Cl. 122—33.)

4. In a device of the class described, a primary combustion chamber, a secondary combustion chamber, a pipe for passing gases from the top of said primary combustion chamber to the top of said secondary combustion chamber, a means for producing hot gases at the lower portion of said first combustion chamber, a water jacket around each of said combustion chambers and said pipe and communicating with each other, a coiled pipe inside said secondary combustion chamber having one of its ends communicating with the water jacket around that particular chamber and its other end designed to lead to a radiator system or like, a pump, a tube leading from



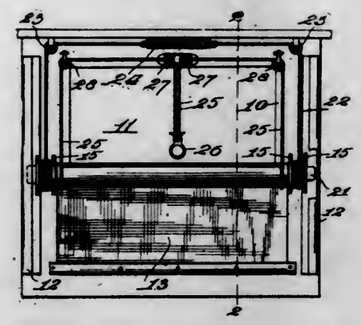
the exhaust port of said pump and formed into a coil inside said primary combustion chamber, a second tube communicating with the free end of said first tube extending and passing into said coiled pipe from which it emerges and makes communication with the intake port of said pump; said pump designed to circulate a fluid through said tubes, and a second pump having its intake port in communication with the return pipe from the radiator system or like and its exhaust port in communication with the inside of the water jacket around said primary combustion chamber.

1,786,083. AUTOMATIC TEMPERATURE-CONTROLLING DEVICE. ALBERT PENN, Des Moines, Iowa, assignor to Penn Electric Switch Co., Des Moines, Iowa, a Corporation of Iowa. Filed May 21, 1928. Serial No. 279,327. 2 Claims. (Cl. 236—91.)



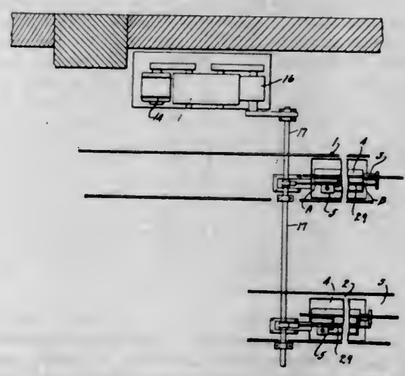
1. In a device of the class described, a casing, a control arm therein, means for pivoting said control arm with respect to said casing and intermediate the ends of the control arm, a pair of temperature responsive means on opposite sides of both the control arm and the pivoting means, said temperature responsive means being responsive to temperature changes within a heat producing device and of outside atmosphere respectively.

1,786,084. PORCH CURTAIN. GEORGE A. PHINN, Pasadena, Calif. Filed Jan. 12, 1926, Serial No. 80,790. Renewed Oct. 10, 1928. 2 Claims. (Cl. 156—27.)



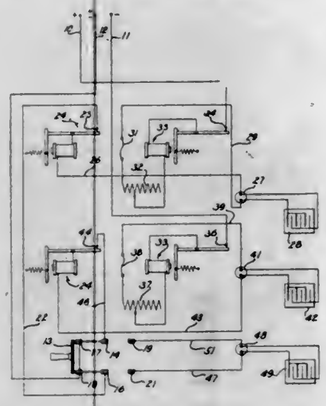
1. In a device of the character described, a curtain member, a pole on which the curtain is rolled, pulleys on the ends of the pole, pulleys supported above the curtain, flexible members secured to the first mentioned pulleys and adapted to be wound thereon, said flexible members adapted to pass over said second mentioned pulleys, yielding means connecting with the ends of said flexible members to hold the curtain in tension, and a flexible operating member having one end secured to the pole and adapted to be wound around the curtain on the pole in a direction reverse to the winding of said first mentioned flexible members on their pulleys.

1,786,085. CONTROL MECHANISM FOR CONVEYERS. NORMAN H. PREBLE, Detroit, Mich., assignor to The Cecil R. Lambert Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 11, 1926. Serial No. 80,664. 4 Claims. (Cl. 198—135.)



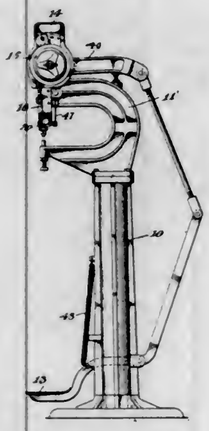
1. The combination of a plunger reciprocably mounted within a cylinder and operated by a fluid under pressure for advancing a conveyer with a step by step movement, a valve controlling the passage of the fluid to and from said cylinder, a cam for actuating said valve and means for driving said cam at different rates of speed.

1,786,086. SYSTEM FOR CHARGING STORAGE BATTERIES. AMOS DURBIN PRITCHARD, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 19, 1928. Serial No. 320,323. 4 Claims. (Cl. 171—314.)



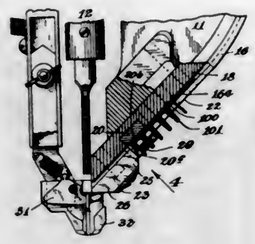
1. In a system for charging storage batteries, a three-wire direct current circuit including positive, neutral and negative mains, a plurality of battery connectors arranged therein, and selectively operable means for connecting one of the battery connectors between the neutral and one of the other mains or a plurality of the connectors in series between the positive and negative mains.

1,786,087. FASTENER-SETTING MACHINE. THEODORE PUCAR, Brooklyn, N. Y., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 15, 1929. Serial No. 355,238. 12 Claims. (Cl. 1—3.1.)



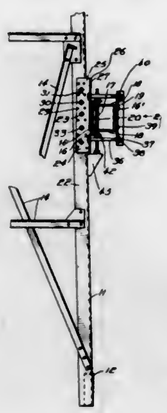
1. A fastener-setting machine comprising a head having upper and lower horizontal branches; an anvil mounted on the lower horizontal branch; a driving plunger mounted on the upper horizontal branch; a fastener-receiving device for receiving double pronged staple-like fasteners; a guideway adapted to guide the fasteners from the fastener-receiving device with a line passing through both prongs of a fastener parallel to the guideway, said line being perpendicular to each of the fastener prongs; a slide adapted to carry the fasteners to the driving position with said line transverse to the guideway; and means for turning the fasteners and transferring them from the guideway to the slide.

1,786,088. FEEDING DEVICE FOR PRONGED FASTENERS. THEODORE PUCAR, Brooklyn, N. Y., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y., a Corporation of New York. Filed May 18, 1929. Serial No. 364,036. 14 Claims. (Cl. 1—3.1.)



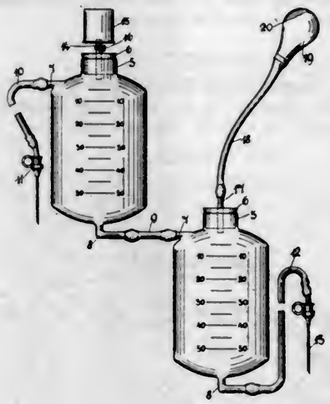
1. Mechanism for feeding and turning two-pronged staples of character described, comprising a guide in which the staples descend by gravity with their heads in alignment and their prongs aligned with the guide axis, a feed slide moving perpendicularly to the guide, a finger thereon adapted to enter between staple prongs, another finger on the slide adapted to operate on a lower staple prong, and a member on the slide adapted to have supporting contact under a staple head.

1,786,089. INTERCHANGEABLE DRAW-WORKS GIRT. WILFRED D. SAWYER, Long Beach, Calif., assignor to Emsco Derrick & Equipment Company, Los Angeles, Calif., a Corporation of California. Filed Apr. 8, 1929. Serial No. 353,398. 17 Claims. (Cl. 189—20.)



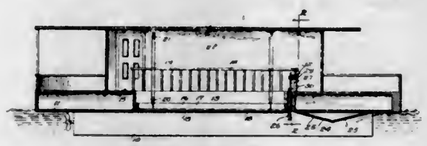
2. In a girt construction, the combination of: a leg; a girt adapted to be secured to said leg; an intermediate member secured to said leg, said intermediate member providing a contacting face, and said intermediate member being adjustable relative to said leg so that said contacting face may be moved toward or from said leg; clamp means for clamping said girt against said contacting face; and jack means positioned adjacent said leg, said jack means being associated with said girt so as to raise or lower same when said jack means is operated.

1,786,090. APPARATUS FOR BLOOD TRANSFUSION. PAUL SCHMIDT and FRANCIS V. MALLOY, Chicago, Ill. Filed Aug. 3, 1928, Serial No. 297,282. Renewed Oct. 22, 1930. 1 Claim. (Cl. 128—214.)



In a device of the class described, a pair of vessels, each vessel having a central opening in its top, an intake tube at the upper end of each vessel an outlet tube in the bottom of each vessel, the two vessels arranged at different levels, the outlet tube of one of said vessels being approximately at the same level with the intake tube of the other vessel, means for connecting said outlet tube with said intake tube, means communicating with the interior of the lower vessel through the central opening therein for creating a pressure in said vessel, a stopper for the central opening in the upper vessel, a tube extending through said stopper into said vessel, and a container supported by the upper end of said tube and being in communication with the interior of said tube.

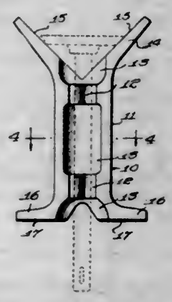
1,786,091. BOAT FOR SUBMARINE INSPECTION. FRANK I. STILES, Miami, Fla. Filed Apr. 23, 1929. Serial No. 357,513. 5 Claims. (Cl. 114—66.)



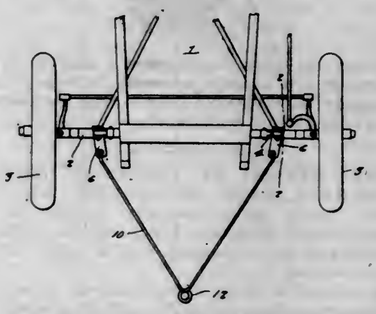
1. In a boat of the character described, spaced pontoons, a hull structure mounted thereon and formed with a well between the pontoons, an observation window mounted within the well, and a transverse partition member vertically movably mounted at the forward end of the window for deflecting downwardly any water tending to enter at the forward end of the window.

1,786,092. VALVE-TESTING GAUGE. JOHN STUTIKA, West Pullman, Ill. Filed Dec. 21, 1927. Serial No. 241,613. 1 Claim. (Cl. 33—180.)

A device of the character described comprising an elongated unitary body having a substantially V-shaped groove extending throughout the greater portion of its length, a pair of spaced substantially V-shaped relatively deep guides formed in portions of said body upstanding from said groove, said guides each having plane faces intersecting in a line common to both, and a pair of relatively long arms projecting from one end of said body and having faces of material width disposed diametrically opposite each other, the line of intersection of the faces of said guides forming substantially a right angle with the line of intersection of the faces of said arms.



1,786,093. TOWING HITCH. ELDA SWICK, Clinton, Nebr. Filed Mar. 28, 1930. Serial No. 439,658. 1 Claim. (Cl. 280—33.44.)



A towing hitch of the character described comprising a pair of coupling brackets adapted for disposition across a vehicle axle between the spring perches mounted thereon and said axle and in a manner to project forwardly therefrom in converging relation to each other, said brackets having openings in their end portions for the passage of the perch bolts, integral down turned lips formed on the rear ends of the brackets for abutting engagement with the rear side of the axle, said lips disposed diagonally with respect to the brackets, the brackets being further provided with openings in their forward end portions, a substantially V-shaped draw bar, integral hooks on the opposite ends of the draw bar for detachable engagement through the openings in the forward portions of the brackets for detachably securing the draw bar thereto, and an integral loop bent upon itself and formed on the intermediate portion of the draw bar constituting means for connecting the same to a draft vehicle.

1,786,094. MANUFACTURE OF PHENYLMERCURIC ACETATE. CARL TAUBE, Leverkusen-on-the-Rhine, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 1, 1929, Serial No. 382,839, and in Germany Aug. 8, 1928. 3 Claims. (Cl. 260—13.)

1. The process which comprises boiling mercury acetate for several hours in benzene to which such a quantity of a high-boiling inert organic solvent of a boiling point of at least 150° C. has been added that the boiling point of the mixture is raised to about 120–140° C.

1,786,095. PROCESS OF EXTRACTING VITAMIN A FROM FISH OILS AND THE LIKE. KATSUMI TAKAHASHI, Aza, Shibuya-Machi, Toyotama-Gori, Japan, assignor to Zaidan Hojin Rikagaku Kenkyujo, Tokyo, Japan. Filed May 2, 1923, Serial No. 636,261, and in Japan Feb. 10, 1923. 6 Claims. (Cl. 167—81.)

1. The process of extracting vitamin A from fish oils containing the same which comprises treating the fish oil with an alcoholic solution of an alkali metal hydroxide to saponify the oil and convert the fatty acid constituents of the fish oil into alkali metal soaps, treating the alcoholic vitamin and soap mixture so obtained with an alcoholic solution of an akaline earth metal chloride to precipitate insoluble alkaline earth metal soaps and filtering the insoluble soaps from the alcoholic solution of vitamin A.

1,786,096. MEANS FOR SCRAPING OFF WOODEN SURFACES. SEBASTIAN THIELMANN, Berlin, Germany, assignor to Nomanu Elektrische Apparate G. m. b. H., Berlin-Halensee, Germany, a Corporation of Germany. Filed Mar. 30, 1929, Serial No. 351,298, and in Germany Sept. 1, 1928. 2 Claims. (Cl. 144—115.)

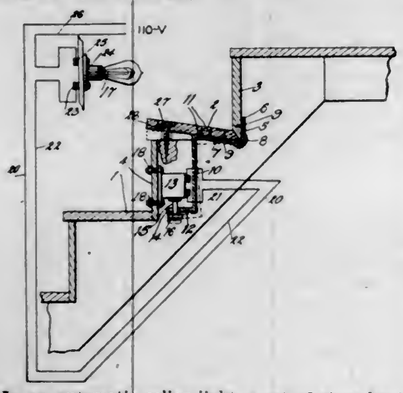


1. A scraping device consisting of a plurality of polygonal loops of wire joined together in the form of a helix, said loops having their sides along at least one side of said helix provided with a scraping edge.

1,786,097. METHOD OF PRODUCING BICALCIUM PHOSPHATE FROM SULPHUROUS SOLUTIONS. ERICH THILO, Berlin, Germany, assignor to Adolf Heicke, Berlin, Germany. Filed Sept. 24, 1929, Serial No. 394,016, and in Germany Feb. 11, 1928. 3 Claims. (Cl. 23—109.)

1. In a method of producing bicalcium phosphate by dissolving tricalcium phosphate-containing material in watery sulphurous acid, adding a strong mineral acid to the solution and expelling sulphurous acid therefrom, the step which consists in expelling the sulphurous acid from the solution by contacting it at ordinary temperature with a permanent gas which does not react either with sulphurous acid or with calcium salts.

1,786,098. TREAD SWITCH. GEORGE THON, Philadelphia, Pa. Filed May 23, 1928. Serial No. 279,950. 2 Claims. (Cl. 200—86.)



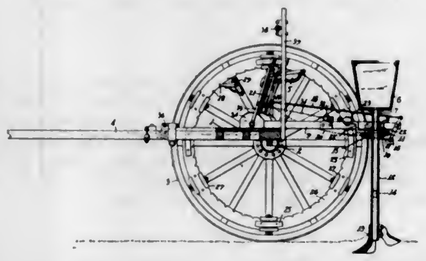
1. In an automatic cellar light, a set of steps having a movable tread, the rear portion of which and the lower edge of an adjacent rise having abutting bevels to limit the tread in its forward movement, a single piece spring hinge connecting said tread and said rise, thereby tensioning the tread, a switch having a pull member, and an angular bracket depending from the tread and operatively connecting with the pull member to actuate the switch when the tread is depressed.

1,786,099. BRAKE-LINING STRETCHER. JOHN B. TRIPP, Jr., Trenton, N. J. Filed Feb. 6, 1929. Serial No. 337,906. 4 Claims. (Cl. 29—84.)



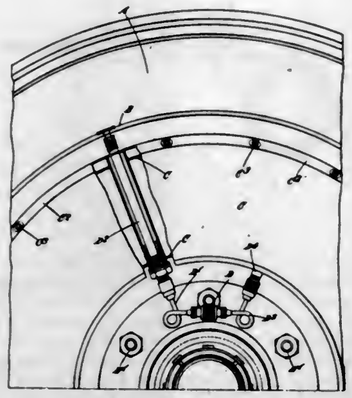
1. In a stretcher for brake linings, a plate having members adapted to be anchored to one end of a lining of brake shoe while one end of the brake lining is secured to said shoe, an extension of said plate adapted to be anchored to a stationary member, the said brake shoe being adapted to have its end remote from that to which the brake lining is anchored oscillate on said member in cooperative relation to the said member to which the extension of the plate is anchored, whereby the said brake shoe may be pivotally supported at one end while its lining is being stretched.

1,786,100. SEED PLANTER. JOSEPH WARD, Huntington, W. Va., assignor of one-tenth to J. E. Miller, Huntington, W. Va. Filed May 6, 1929. Serial No. 360,747. 5 Claims. (Cl. 111—18.)



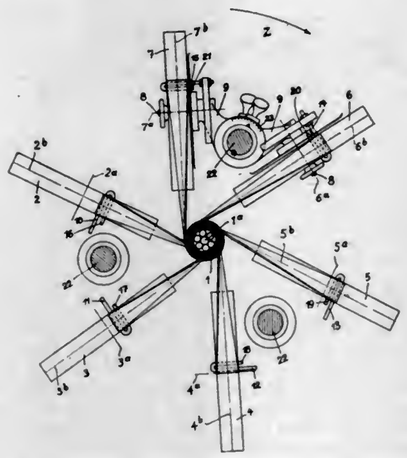
1. A seed planter comprising seed and fertilizer bins arranged in a single transverse row, discharge spouts therefor, and a single valve member for delivering seed and fertilizer from said bins into said spouts, the fertilizer spouts being connected to the seed spouts.

1,786,101. PNEUMATIC TIRE AND WHEEL. CHARLES KINGSTON WELCH, Coventry, England; Annie Gertrude Welch and Roland Welch administrators of said Charles K. Welch, deceased. Filed May 7, 1923, Serial No. 637,347, and in Great Britain May 17, 1922. 8 Claims. (Cl. 152—29.)



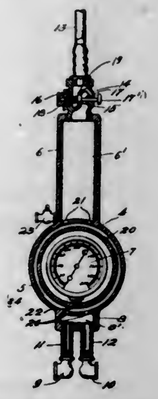
1. A pneumatic tire having in combination a container, a conduit communicating with said container and adapted to be attached to and to communicate with the interior of the tire, and a flow restrictor in said conduit so arranged that air may pass more readily from the tire to the container, than from the container to the tire.

1,786,102. MACHINE FOR WINDING OR COVERING CABLES OR THE LIKE WITH TAPE OR STRIP MATERIAL. PAUL WIEGHARDT and KASIMIR SCHROTT, Magdeburg, Germany, assignors to the Firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Filed Mar. 5, 1927, Serial No. 173,152, and in Germany Mar. 6, 1926. 9 Claims. (Cl. 117—47.)



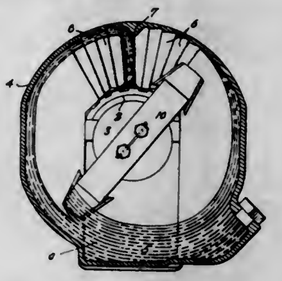
1. A machine for winding cables or the like with strip material, comprising a winding frame, axles on said winding frame at right angles to the axis of the cable, and spools rotatably mounted on said axles, the midplanes of said spools, which are perpendicular to the axes of the spools, being substantially tangent to the cable at the winding-on points.

1,786,103. AIR-SERVICE CONTROL AND REGISTER FOR PNEUMATIC TIRES. ARCHIE M. BAIRD and FRED J. PARTRIDGE, Topeka, Kans.; Mary L. Baird, administratrix of said Archie M. Baird, deceased, assignor to Baird Pneumatic Register Company, Topeka, Kans., a Corporation. Filed Nov. 23, 1927. Serial No. 235,292. 1 Claim. (Cl. 152—11.5.)



The combination of an inflating device having a connecting chuck, a dial type pressure gauge, a control valve mechanism and connecting air passages, of a gauge supporting portion comprising a body having a thickness greater than the gauge and having a cylindrical opening therethrough sufficiently larger than the gauge so that said gauge may be revolved for attachment or detachment, one of the air passages extending through said body around the gauge and having a connection to the gauge.

1,786,104. AUTOMATICALLY-LUBRICATING JOURNAL BOX. MAX F. BAUR, Geneva, Switzerland, assignor to Isothermos Corporation of America, New York, N. Y., a Corporation of Delaware. Filed Nov. 8, 1928, Serial No. 317,909, and in Switzerland Sept. 28, 1928. 2 Claims. (Cl. 308—86.)

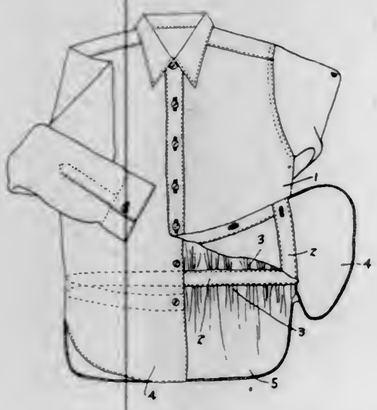


2. In a journal box, the combination of an axle having a lubricant distributing member thereon, and means for directing lubricant onto the bearing, said means comprising an inclined top wall of the box having a plurality of lubricant guiding and directing ribs formed thereon, and a lubricant precipitating rib having a horizontal dripping edge extending across the top of the box and located in the path of lubricant thrown from said lubricant distributing member.

1,786,105. STAY-DOWN SHIRT. JOSEPH H. CLARK, Berkeley, Calif. Filed Sept. 18, 1928. Serial No. 306,651. 1 Claim. (Cl. 2—115.)

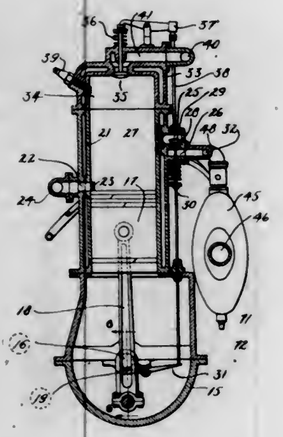
A stay-down shirt having a two-piece elastic band secured to the shirt at the waist, the pieces extending from

the front of the shirt being spaced a slight distance from each other at the back, the portions of the back of the



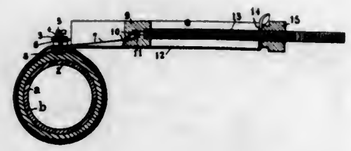
shirt secured to the two pieces having gathers therein, and adjustable means for securing the rear ends of the bands together.

1,786,106. TWO-CYCLE INTERNAL-COMBUSTION ENGINE AND SUPERCHARGING DEVICE. MURRELL H. CRIMMINS, Los Angeles, Calif. Continuation of application Serial No. 115,740, filed June 14, 1926. This application filed Jan. 30, 1929. Serial No. 336,512. 6 Claims. (Cl. 123—67.)



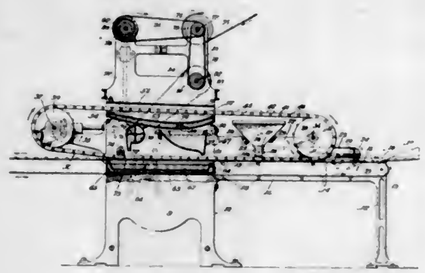
1. The combination, with the piston cylinder of a two-cycle internal combustion engine; of an air chamber adjacent to said cylinder at the side thereof at approximately the middle point of the combined combustion and cylinder spaces, when the piston is in its lowermost position, there being a series of airducts leading from said chamber through the wall of said cylinder, said air ducts as they pass from said chamber to said cylinder diverging sufficiently to direct air under pressure at an upward inclination and at a downward inclination into every part of the space occupied by the consumed gases, means to supply compressed air to said chamber under pressure, and means timed to supply and cut off the compressed air as required.

1,786,107. CLAMPING COLLAR. VLADIMIR ANTOINE DE VULITCH, Paris, France. Filed Apr. 29, 1929, Serial No. 359,104, and in France June 29, 1928. 2 Claims. (Cl. 24—19.)



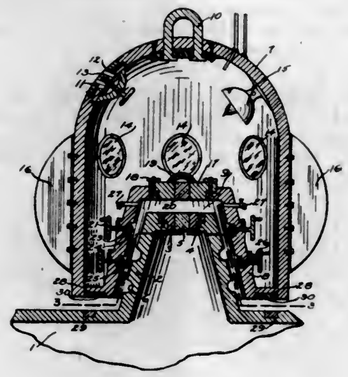
1. A clamping collar for the attachment of tubular bodies including a flexible metallic band passing about the tubular body and having its inner and outer ends overlapped, a loop member receiving the flexible band, the inner end of said band being bent back over one side of the loop member, and adjustable means coacting with the opposite side of the loop member for gripping the outer end portion of the flexible band to secure the latter in position, said means acting to exert pressure also on the inner end of the band to secure the latter in position on the first mentioned side of the loop member.

1,786,108. CLUSTER ENROBING MACHINE. WALTER C. DRURY, Fulton, Ill. Filed Dec. 29, 1926. Serial No. 157,756. 13 Claims. (Cl. 107—1.)



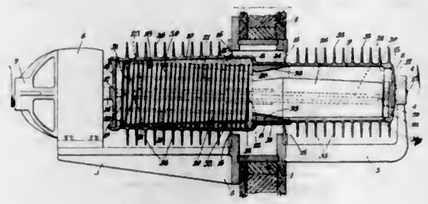
13. In a machine of the class described, an endless conveyor, means for supplying fillers to the conveyor, means for aligning the fillers in rows transversely of the conveyor, an endless chain of mold bars adapted to engage the conveyor over the rows of aligned fillers thereon and travel therewith, means for supplying nuts to the fillers, means for checking the discharge of nuts intermittently, means associating the filler aligning means and nut discharge control means to secure their operation in predetermined sequence with respect to the mold bars, means for supplying a coating to the nuts and fillers in the molds, means for blowing any excess of coating through the molds and conveyor, means for returning such excess of coating to the main supply, and common means for ejecting the coated nuts and fillers from the molds and changing the course of the chain of mold bars to separate same from the conveyor substantially as specified.

1,786,109. SUBMARINE RESCUING DEVICE. RUBIE EDWARDS, Fort Slocum, N. Y. Filed Apr. 22, 1929. Serial No. 357,237. 6 Claims. (Cl. 61—69.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)



1. Means for securing a rescue vessel to a submerged ship comprising a tapered projecting passage-way on said ship and a corresponding re-entrant portion on the rescue vessel, said projecting passage-way having grooves and said re-entrant portion having apertures and locking means mounted in said apertures for entering said grooves.

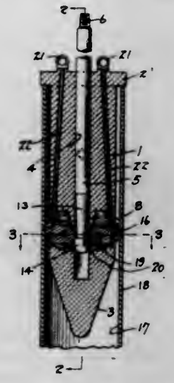
1,786,110. REFRIGERATING APPARATUS. THOMAS M. GUNN, Brooklyn, N. Y., assignor of one-sixth to Gorham Crosby, Glen Ridge, N. J. Filed Apr. 23, 1924. Serial No. 708,345. 21 Claims. (Cl. 62—115.)



1. Refrigerating apparatus having in combination a rotary casing in one part of which a refrigerating medium is compressed and in another part of which the refrigerating medium is permitted to expand to effect refrigeration, said casing being sealed to the outside atmosphere but having communication between its said parts for the refrigerating medium, a body of liquid in the compressor part, said liquid lying against the outer walls of said compressor part, said walls being fixed with respect to the refrigerating part, a rotary compressor member in the compressor part cooperating with said liquid to compress the refrigerating medium, the axis of said compressor member being slightly displaced from the axis of said rotating casing.

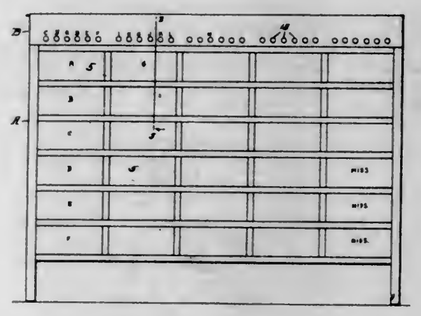
1,786,111. FISHING TOOL. CHARLES P. HARRIS, Oakland, Calif. Filed Feb. 13, 1928. Serial No. 254,085. 5 Claims. (Cl. 294—94.)

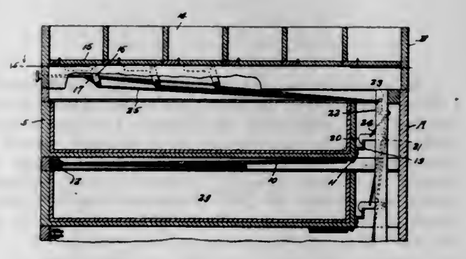
1. A fishing tool comprising a cylindrical-shaped body having an annular outwardly-extending flange at one end and a conical-shaped portion at the other, a lifting stem slidably mounted in said body and having a shoulder fashioned therein, spring actuated catches carried by said body for engaging with said shoulder, and jaws



carried by said body and being engageable by said shoulder, when said stem is moved into a predetermined position.

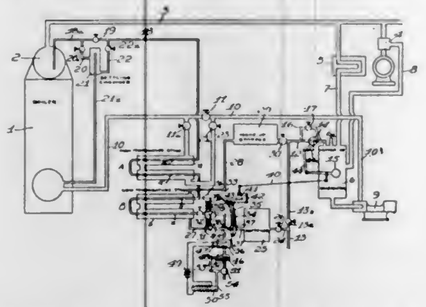
1,786,112. FILING CABINET. LESLIE J. HART, Valdosta, Ga., assignor of one-fourth to Claudia Johnson, Valdosta, Ga. Filed Sept. 4, 1928. Serial No. 303,888. 3 Claims. (Cl. 45—2.)





3. A cabinet of the class described including a pair of sections, one of said sections being provided with a pocket having a tiltable bottom, a bell crank mounted in said one section and adjacent the tiltable bottom, a drawer in the other section, spring means urging the drawer to an open position, catch means to hold the drawer in a closed position, a bell crank, a link connecting the last mentioned bell crank with the catch means, a link connecting the two bell crank means together, and means for actuating the first bell crank.

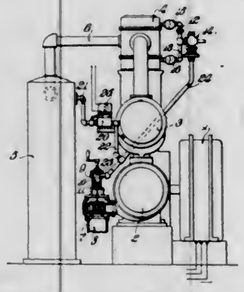
1,786,113. PROCESS AND MEANS FOR PURIFYING BOILER WATER. ROY O. HENSZEY, Oconomowoc, Wis. Filed Nov. 8, 1926. Serial No. 147,122. 41 Claims. (Cl. 122—1.)



29. The process of maintaining boiler water at a low degree of concentration which consists in blowing off water from the boiler, adding make-up water to the boiler, and regulating the amount of water blown off so that it is increased or decreased in proportion to the increase or decrease in the amount of make-up water added.

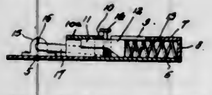
30. A boiler provided with a blow-off system means for delivering condensate to the boiler means for delivering make-up water to the boiler, and means for mechanically regulating the amount of water blown off through said system so that it is increased or decreased in substantial accordance with the increase or decrease in the amount of make-up water added to the boiler.

1,786,114. COMPRESSOR SYSTEM. WILLIAM E. HUGHES, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 18, 1928. Serial No. 326,807. 22 Claims. (Cl. 230—4,)



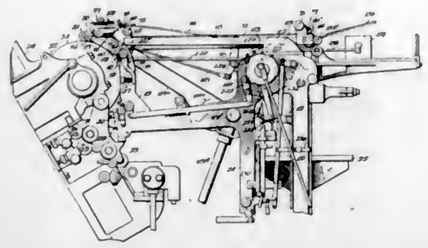
1. In a compressor controlling system, a compressor, a motor for driving the same, means for automatically stopping said compressor in response to receiver tank pressure whenever the receiver tank pressure reaches a predetermined desired maximum value, said means including a receiver pressure actuated circuit breaking switch, an unloader for said compressor, and controlling means for said unloader automatically operative to effect unloading before stopping of said compressor.

1,786,115. FASTENER. FERDINAND L. JENSEN, Kildare, N. Y. Filed Nov. 22, 1929. Serial No. 409,023. 2 Claims. (Cl. 24—201.)



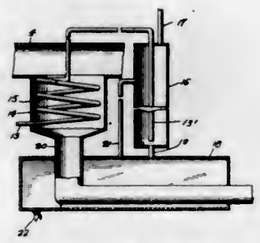
1. A fastener of the character described comprising a pair of plate sections, a loop on each of the said sections, for registry with each other, a barrel on one of the sections having an open end in spaced relation to the corresponding loop, a bolt slidable in the barrel and through the loop on one plate section and into the loop on the other plate section, and a bail swingably mounted on the other section and adapted to have its bight portion engage under the bolt in the space between the loop and open end of the barrel on said one section when the bolt is in projected position.

1,786,116. PRINTING PRESS. WILLIAM M. KELLY, Westfield, N. J., assignor to American Type Founders Company, Jersey City, N. J., a Corporation of New Jersey. Filed Dec. 10, 1926. Serial No. 153,990. 36 Claims. (Cl. 101—250.)



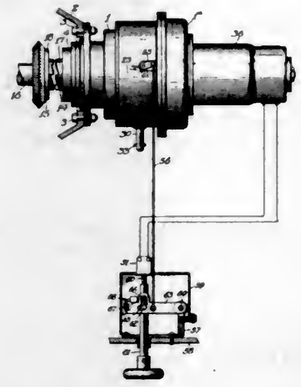
1. In combination with a bed and oscillating cylinder press, means to grip the delivery margin of a sheet on the cylinder when the cylinder nears the end of the printing stroke and hold the same during the reverse rotation of the cylinder, and means to release the first means at about the beginning of the next printing stroke.

1,786,117. OIL VAPORIZER. RUDOLPH KROLLAGE, McGregor, Tex. Filed Aug. 29, 1927. Serial No. 216,252. 1 Claim. (Cl. 48—102.)



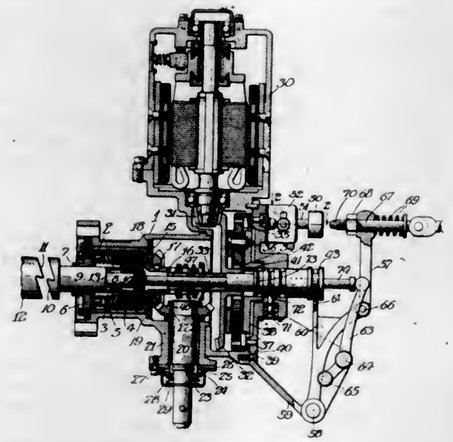
In oil vaporizing apparatus, a crude oil supply tank, an intake manifold and an exhaust gas manifold, the said exhaust manifold having an enlargement, a primary oil separator and vaporizer, a crude oil conduit connected with the crude oil tank and having a coil within the enlargement in the exhaust manifold whereby exhaust gases heat the said crude oil, said crude oil conduit passing vertically downward through the top of the primary separator and having a depending portion extending through a greater part of the length of the separator, a second oil separator and vaporizer surrounding a portion of the exhaust manifold to receive heat therefrom, a conduit connecting the primary and secondary separators and causing residual fuel oil to pass to the secondary separator to be vaporized, therein, a second conduit connecting the two separators to cause vaporized oils to be returned to the primary separator, and a conduit extending from the primary separator to the intake manifold and connected to the primary separator above the lower end of the depending portion of the crude oil conduit, whereby vaporized oils from both separators are conveyed to the intake manifold.

1,786,118. ENGINE STARTER. RAYMOND P. LANSING, Montclair, N. J., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York. Filed Feb. 19, 1926. Serial No. 89,454. 17 Claims. (Cl. 189—192.02.)



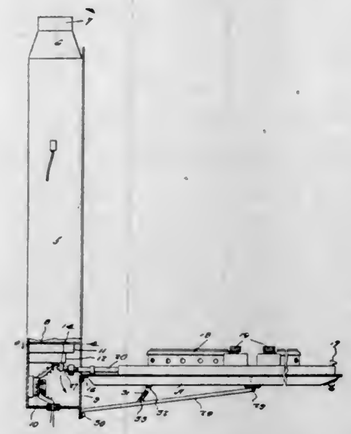
1. An engine starter apparatus including a drive having a driving member adapted to be moved to engage and crank a member of the engine to be started, an inertia member operatively connected to said drive, an electric motor adapted to actuate said inertia member, an electrical circuit and switch for the motor, and combined means for controlling the switch and for so moving the driving member.

1,786,119. ENGINE STARTER. RAYMOND P. LANSING, Montclair, N. J., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York. Filed Oct. 6, 1926. Serial No. 139,778. 18 Claims. (Cl. 189—192.02.)



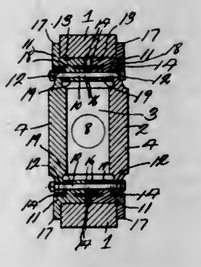
1. An engine starter including a drive having a driving member adapted to be moved longitudinally to engage and rotated to crank a member of the engine to be started, an electric motor and its switch, means for drivingly connecting said motor and driving member including a hollow shaft and a single means for dissimultaneously operating the driving member and the switch, said means including a longitudinally movable rod in axial alinement and cooperating with the driving member and extending through said hollow shaft.

1,786,120. COOKING OUTFIT. THORNTON LEWIS LYMAN, Dartmouth, Mass. Filed Nov. 12, 1928. Serial No. 318,988. 1 Claim. (Cl. 219—19.)



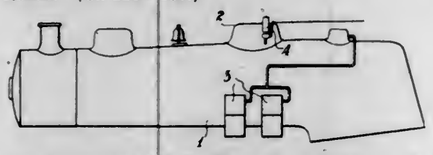
An apparatus of the class described including a casing, a door hingedly mounted on the casing, electric burners on the door, and means for closing a switch when the door is open and opening the switch when the door is closed, and individual switches for the burner, props for holding the door in a horizontal open position, said props being hingedly mounted to the door and having offset ends receivable in keepers on the bottom of the casing, braces pivotally engaged with the door and having pin and slot connections with the props, the door including an inner wall and an outer wall with sheets of heat insulating material secured to the inner surfaces thereof, a supplemental wall mounted on the inside of the door in spaced relation thereto for supporting the burner, and electrical conductors confined between the supplemental wall and the inner faces of the door.

1,786,121. CROSSHEAD. JOHN O. MCARTHUR, Casper, Wyo. Filed Feb. 9, 1927, Serial No. 166,886. Renewed May 13, 1930. 3 Claims. (Cl. 308—3.)



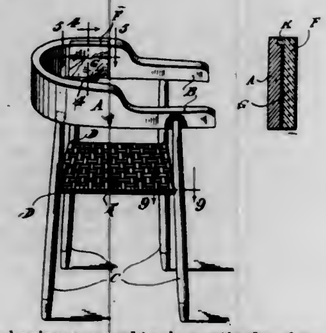
3. The combination with an adjustable crosshead having shoes formed from sections slidably mounted on crosshead guides, said shoe sections being detachably connected to crosshead plates, said crosshead plates being disposed in angularly shaped channels in the outer sides of the shoe sections, of liners disposed between the shoe sections, said liners being angularly shaped in vertical transverse cross section and having one of their flanges disposed in channels in registering the inner sides of the shoe sections, said angularly shaped liners being receivable in the angularly shaped channels in the outer sides of the shoe sections and held firmly in said shoe sections.

1,786,122. LOCOMOTIVE WHISTLE. CHARLES THORNTON MCELVANEY, JR., and EDWARD PAUL GOLDING, Dallas, Tex. Filed Apr. 28, 1930. Serial No. 447,872. 2 Claims. (Cl. 116—137.)



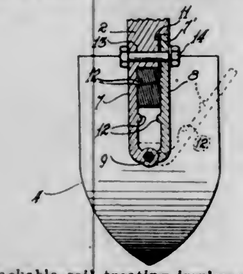
1. A locomotive whistle disposed on a locomotive at the front of the latter and over the smoke arch and protruding ahead of the locomotive; a substantially frustoconical reflector in association with the whistle, the whistle being mounted inside the reflector, both reflector and whistle being inclined downwardly toward the ground in front of the locomotive; said reflector having an opening at its rear end and an annular lip formed adjacent the opening, the opening and the lip formation permitting some of the sound waves to travel backwardly over the train when the whistle is sounded, the maximum amount of the sound waves being projected forward in front of the locomotive, due to the reflector.

1,786,123. NOVELTY CHAIR. WILLIAM B. MURPHY, Crandall, Tex. Filed Mar. 25, 1929. Serial No. 349,531. 1 Claim. (Cl. 40—63.)



A chair having a curved back, mortised to form a vertical recess having dove-tailed walls, a glass block having its edges beveled to fit the said walls, and having its outer surface shaped to conform to the configuration of the back, a picture interposed between the said glass block and the recessed surface, and coacting means on said block and said recessed back respectively for holding the block in vertical position, said coacting means including a horizontal rib along the upper edge of the glass block serving as a stop, cooperating with a shoulder formed in the chair back.

1,786,124. DETACHABLE CULTIVATOR SWEEP. WILLIAM B. MURPHY, Crandall, Tex. Filed Dec. 26, 1929. Serial No. 416,525. 4 Claims. (Cl. 97—198.)

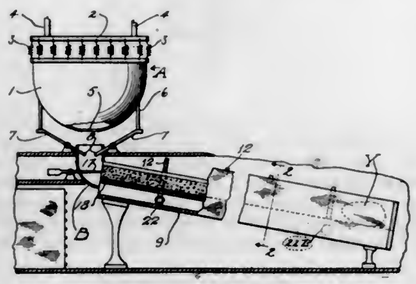


3. A detachable soil treating implement for connection to the standard of a cultivator, said implement including a lug on the rear side of its shank, said lug being tapered and provided with grooves; an element having downwardly-directed parts spaced from one another and grooves formed in spaced relation on the inner sides thereof; one of said parts being swingably-engaged with the other, whereby said lug on the implement and said lugs on the downwardly-directed parts are interlocked to connect the implement with the standard.

1,786,125. FUNGICIDE AND INSECTICIDE. WALTER C. O'KANE, Durham, N. H. Filed May 18, 1927. Serial No. 192,483. 7 Claims. (Cl. 167—16.)

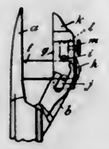
6. A fungicide and insecticide consisting of a pyrethrum-impregnated hydrocarbon white oil carrying a colloidal copper material.

1,786,126. CHICKEN NEST. ALFRED E. PRARAT, Gridley, Calif. Filed Oct. 10, 1928. Serial No. 311,693. 5 Claims. (Cl. 119—48.)



1. A hen's nest having an opening in the bottom thereof, yielding means supporting said nest and permitting a downward movement thereof when the nest supports a hen, means actuated by the downward movement of said nest for temporarily closing the opening, and an inclined egg receiving member communicating with the opening, partitions carried by said egg receiving member for separating each egg from all other eggs, and electrically controlled means put into operation by an egg leaving the nest for successively dropping said partitions.

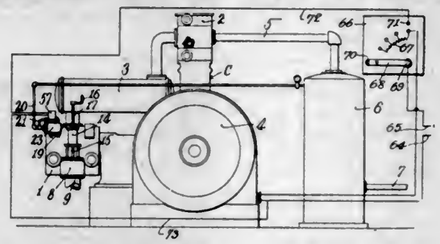
1,786,127. CROWN-SLITTING PLIERS. CHARLOS RADÓ, Budapest, Hungary. Filed July 11, 1927, Serial No. 204,991, and in Hungary Aug. 7, 1926. 1 Claim. (Cl. 32—10.)



In crown slitting pliers a pressure arm, a stripping knife fixed loosely on said pressure arm, a bar guide onto which said pressure arm is drawn, a supporting branch, said bar guide starting from said supporting branch and connected with the stripping knife, pivots projecting on both sides, and a groove in the pressure arm, said pivots projecting into said groove.

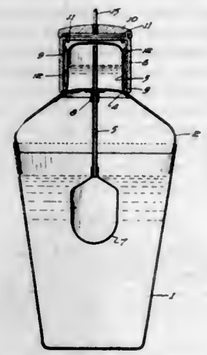
1,786,128. COMPRESSOR-CONTROLLING MECHANISM. JOHN W. SANFORD, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Mar. 17, 1928. Serial No. 262,520. 16 Claims. (Cl. 230—4.)

1. In an automatic compressor control system, an electric motor for driving the same, a pressure responsive pilot valve for controlling loading and unloading of said compressor during normal operation in response to variations in discharge pressure while the compressor is running continuously, a controlling device for said motor, and



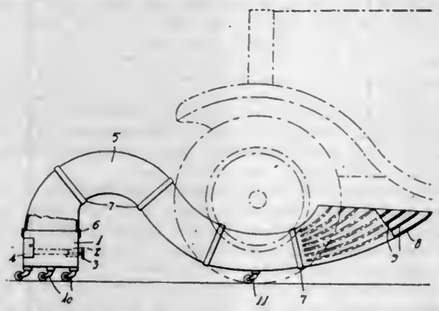
means controlled thereby for actuating said pilot valve to unloaded position and holding the same in such position until the motor reaches substantially normal operating speed.

1,786,129. LIQUID MIXING AND COOLING DEVICE. WILLIAM C. SANFORD, JR., Cerro De Pasco, Peru. Filed Jan. 28, 1930. Serial No. 423,989. 7 Claims. (Cl. 62—120.)



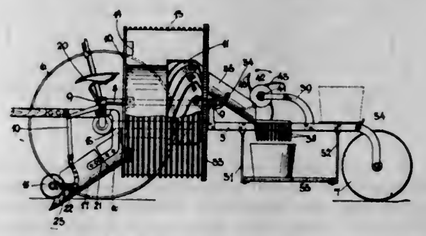
1. A liquid mixing and cooling device, comprising a cup-shaped vessel, a telescoping cover therefor including a sealed reservoir, a tube supported by said cover having an open end extending into said sealed reservoir and a lower end extending below the cover and terminating in a lower sealed reservoir, a heating device adjacent said upper reservoir, and a refrigerant adapted to circulate between the reservoirs.

1,786,130. HEATER FOR AUTOMOBILE ENGINES. WALTER SCHOENFELD, St. Paul, Minn. Filed Dec. 17, 1928. Serial No. 326,612. 2 Claims. (Cl. 126—96.)



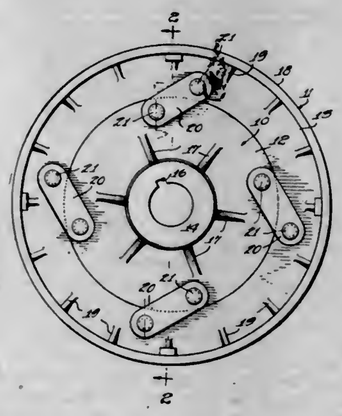
1. A heater for automobile engines comprising a movable source of heat, an upwardly-arched pipe connecting with the source of heat, an inversely, arched pipe forming a continuation of the firstnamed pipe for fitting beneath the axle of the automobile and having an open free end portion adapted to fit beneath the crank case of the automobile, and supporting means below said inversely-arched pipe acting as a fulcrum when the handle is lifted whereby to lower the open end of the secondnamed pipe to pass the same beneath the axle of the automobile.

1,786,131. POTATO-HARVESTING MACHINE. WILHELM SCHULZE, Michigan City, Ind. Filed Apr. 27, 1928. Serial No. 273,250. 1 Claim. (Cl. 55—58.)



In a device of the class described, a chute consisting of a relatively stationary rear portion and an adjustable forepart, the latter being adapted to dig potatoes out of the ground, a revolving drum, spaced apart rings forming the circumference of the drum, a guide drum arranged in said first mentioned drum and revolving therewith, dividing plates extending from the guide drum to said rings and dividing the space between said rings and said drum into a plurality of compartments adapted to receive potatoes, means on said guide drum for guiding the potatoes out of said first drum, an inclined chute, a plurality of bars forming the bottom of said chute and extending longitudinally thereof, said chute being arranged to receive the potatoes from the revolving drum, a second revolving drum, a plurality of claws on said drum and adapted to reach from below between the bars forming the bottom of the inclined chute, a second inclined chute extending at right angles to the first mentioned chute, and a receptacle positioned underneath and at the end of said chute.

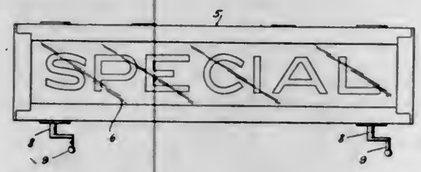
1,786,132. BRAKE DRUM. WILLIAM SCHWEMLEIN, Parkersburg, W. Va., assignor to The Parkersburg Rig & Reel Company, Parkersburg, W. Va., a Corporation of West Virginia. Filed Apr. 5, 1928. Serial No. 267,653. 9 Claims. (Cl. 188—218.)



1. A device of the character described comprising a pair of concentric rotatable elements, one of said elements

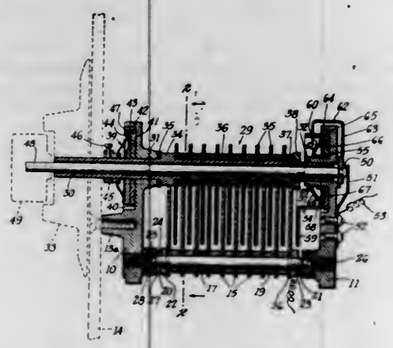
being provided with a face adapted to be engaged by a friction element and adapted to partake of expansion and contraction independently of the other element, said elements being adapted to partake of limited relative rotation upon said expansion and contraction, and means for connecting said elements together to rotate as a unit.

1,786,133. CHANGEABLE EXHIBITOR. CLARENCE SEFFENS and JOHN R. ROBINSON, Parkersburg, W. Va. Filed Aug. 7, 1928. Serial No. 298,009. 2 Claims. (Cl. 40—86.)



1. In a changeable exhibitor, a casing having an open front and including top and bottom walls, a transparent panel closing said open front, spacing strips secured to the top and bottom walls engaging the inner face of said transparent panel, a second transparent panel arranged in rear of the first mentioned panel and engaging said strips and terminating short of the ends of the first referred to panel, said strip and said panels defining a longitudinally extending guideway, illuminating elements arranged within said casing, vertically disposed rollers mounted for rotation within said casing adjacent the opposite ends of said casing, means for rotating said rollers, an exhibitor belt traversing said rollers, said belt being movable in said guideway and said belt having indicia characters formed thereon, said indicia characters being formed of transparent material.

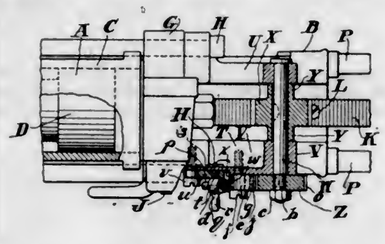
1,786,134. ELECTRIC CONDENSER. LOUIS E. SHAW, East Orange, N. J., assignor, by mesne assignments, to Dejur-Amsco Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 29, 1923. Serial No. 683,269. 15 Claims. (Cl. 175—41.5.)



11. In an electric condenser, the combination of a frame, a hollow main shaft journalled at one end in said frame, a vernier shaft journalled in the bore of the main shaft and projecting therefrom beyond the frame, a vernier plate journalled on the frame, a U-arm secured by one of its legs to the projected end of the vernier shaft and connected by its other leg to the vernier to rotate the same and a spring bearing on the end of the vernier shaft to hold the same in place, said spring constituting an electric contact for conveying electric energy to the vernier plate.

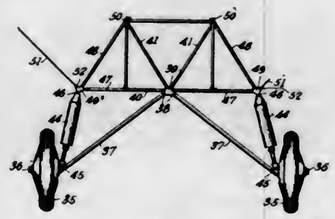
15. A variable air condenser comprising a rotor plate set, end supporting plates therefor, a stator plate set and means supporting the stator plate set on the end supporting plates, the said means consisting of a plurality of insulators carried by the end plates and carrying the stator plate set, the said end plates, stator plate set and insulators being provided with integral inter-engaging means effective for locking the stator plate set in supported position.

1,786,135. FEEDING DEVICE FOR PERCUSSIVE MOTORS. WILLIAM A. SMITH, Sr., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 11, 1930. Serial No. 434,958. 7 Claims. (Cl. 255—45.)



1. In a feeding device, the combination with a motor and a support whereon said motor is slidably mounted, a reciprocatory hammer piston in the motor imparting jars thereto tending to move the motor longitudinally of the support, of recoil resistance means operatively associated with the motor and the support and comprising a rack and a gear meshing with the rack, and stop means for controlling the direction of rotation of the gear to enable the motor to be advanced and retracted with respect to the support by the piston.

1,786,136. AIRPLANE. LLOYD STEARMAN, Wichita, Kans., assignor to The Stearman Aircraft Company, Inc., Wichita, Kans., a Corporation of Kansas. Filed May 6, 1929. Serial No. 360,766. 8 Claims. (Cl. 244—2.)



1. In aircraft construction, a frame, struts extending outwardly from the sides of the frame at the bottom portion of the same, braces angled to carry vertical and horizontal loads on said outstanding struts and extending from the outer ends of said struts to the frame, landing gear attached to said outstanding struts and including shock struts pivoted at their upper ends to said outstanding struts, braces connecting the lower ends of said shock struts with the central portion of the frame and internal trusses within the frame between said central portion of the frame and points where the braces of the outstanding structs are connected with the frame.

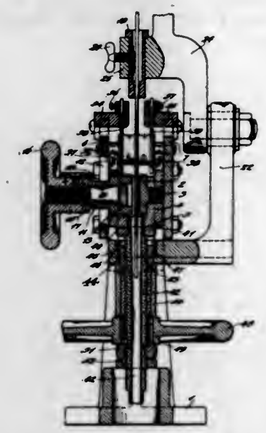
8. In aircraft, a fuselage frame, landing gear struts projecting substantially horizontally from the lower portion of said fuselage frame, angled braces extending from the outer ends of said horizontally projecting struts to the fuselage frame, wing braces anchored to the outer ends of said horizontally projecting struts and landing gear means connected with the outer ends of said horizontally projecting struts and with the lower central portion of the fuselage frame.

1,786,137. HOSE SUPPORTER. HENRY J. STUART, New Haven, Conn., assignor to The Bassett Metal Goods Company, Inc., Derby, Conn., a Corporation of Connecticut. Filed Nov. 5, 1929. Serial No. 404,894. 15 Claims. (Cl. 24—245.)



1. In a garter clasp having a button strap and a gripping loop to cooperate therewith, a button on said strap comprising a base-plate mounted on the strap, a post supported by said base-plate, and a resilient collet mounted around said post, said collet having a head portion, and a shank footing on said base plate, the bottom of said shank having a hollowed part to provide annular external walls of reduced mass at points which receive the embrace of said gripping loop, whereby the resiliency of the collet at the latter points is increased.

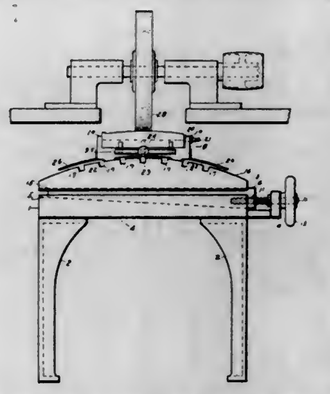
1,786,138. WIRE-TESTING MACHINE. CHARLES C. SUNDERLAND, Trenton, N. J., assignor to John A. Roebling's Sons Company, Trenton, N. J., a Corporation of New Jersey. Filed Sept. 17, 1928. Serial No. 306,525. 8 Claims. (Cl. 265—13.)



1. In a bending test machine and in combination, means for holding a specimen for test, means for bending said specimen, a bending mandrel, trunnions therefor, mounting members for said trunnions having inclined slots and means for adjusting said trunnions in said slots.

1,786,139. RAILWAY JOURNAL-WEDGE-GRINDING DEVICE. CHARLES TAGGART, Detroit, Mich. Filed Apr. 29, 1927. Serial No. 187,473. 8 Claims. (Cl. 51—231.)

1. A grinding device adapted for grinding curved surfaces on journal wedge blocks, to be used in combination with a grinding wheel, comprising a base block having suitable means for supporting same, a detachable base plate mounted thereon, said detachable base plate being provided with an upper curved surface, a carriage block slidably mounted upon the curved surface of the detachable base block and so designed as to allow free movement thereof in a direction parallel to the elements of the curved surface, means attached to the carriage block for guiding said carriage along the surface of the detachable base in various parallel paths thereon, said carriage block is designed to receive and retain a journal wedge block therein.

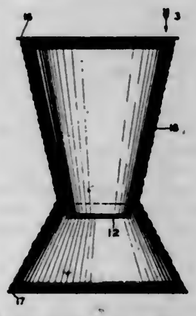


1,786,140. MILK-BOTTLE CAP. LILLIAN TOWY, Inglewood, Calif. Filed Nov. 7, 1928. Serial No. 317,753. 5 Claims. (Cl. 215—51.)



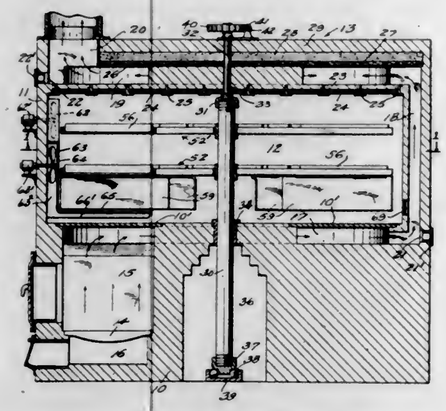
2. A milk bottle cap comprising a flat disc of paper or similar material weakened for folding purposes upon a transversely extending line, and a tab for removing the disc, said tab being formed integral with the disc and normally being disposed in the plane thereof, said tab being adapted to remain permanently connected to the disc adjacent said weakened line.

1,786,141. FLOWER BASKET. GEORGE L. WILSON, Alhambra, Calif. Filed May 9, 1928. Serial No. 276,382. 2 Claims. (Cl. 47—41.)



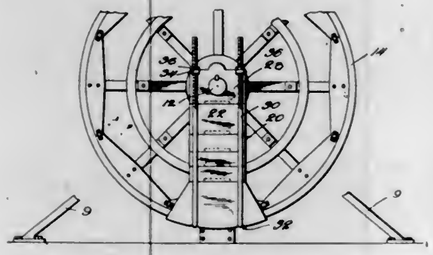
1. A flower vase comprising a frusto-conical sheet metal base and inverted frusto-conical sheet metal receptacle secured within the open top of said base and flaring upwards therefrom, and a woven wicker covering encasing and closely fitting said base and receptacle.

1,786,142. BAKING OVEN. CHARLES A. WYMAN, Auburn, Wash. Filed May 10, 1927. Serial No. 190,197. 5 Claims. (Cl. 107—60.)



1. In a baking oven of the character described, having a baking chamber, a furnace located below the chamber, a metal wall located above the furnace and serving to partition the latter from said chamber, a rotary shelf provided in the chamber and adapted to revolve about said wall, a horizontal baffle located between said wall and the rotary shelf, a fan located at one side of the chamber, a conduit extending from the space between said wall and the baffle to the fan, and means to drive the fan to effect the withdrawal of hot air from said space and its delivery diametrically of the chamber and above the shelf.

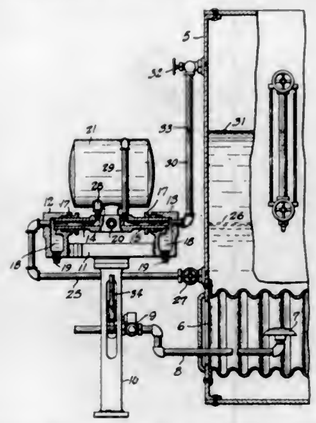
1,786,143. COUNTERBALANCE. CHARLES H. BERGQUIST, Okmulgee, Okla., assignor of one-half to Emery A. Locke, Okmulgee, Okla. Filed May 16, 1929. Serial No. 363,694. 6 Claims. (Cl. 74—71.)



1. In a counterbalance for use in connection with band wheel assemblies, an attaching block having means whereby the same may be secured in a relatively permanent manner to a band wheel shaft, a weighted body associated with said attaching block, a pair of U-shaped members having bight portions engaged with the outer portion of said weighter body and having arms at opposite sides of the body, and means associated with said arms to raise the body into pressure engagement with said attaching member and to lower the body to a position at rest beneath the attaching block.

1,786,144. SAFETY DEVICE FOR BOILERS. WERNER BEUTEL, Bridgeport, Conn., assignor of one-half to Robert Bohm, Bridgeport, Conn. Filed Feb. 28, 1928. Serial No. 257,738. 11 Claims. (Cl. 122—505.)

2. In a safety device for steam boilers having a heating means, a tank mounted for movement located above the low water level and below the normal water level in the boiler, means for shifting said tank when it is empty, a connection from the lower part of the tank to the lower part of the boiler, a connection from the tank to the



boiler above the normal water level and extending between these points to the low water level, and means controlled by movement of said tank for controlling said heating means.

1,786,145. SUPPORT. BURWELL BOYKIN, Jr., Beaumont, Tex. Filed May 6, 1927. Serial No. 189,275. 1 Claim. (Cl. 189—16.)



A jack post including a steel body of H-beam construction adapted to stand at an angle from the vertical, a lower metal bracket including a plate to engage the upper side of a derrick sill, two upwardly extending arms transversely of said plate and adapted to straddle the central web of said H-beam, means to secure said arms to said web, a pair of downwardly extending connected plates on said bracket to engage the side of the derrick sill, a reenforcing web between said plates, and a bolt to connect said bracket to said sill.

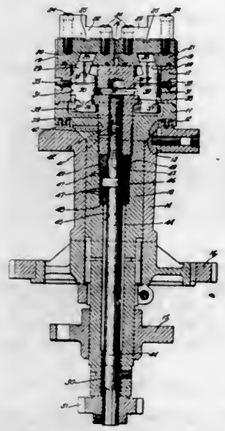
1,786,146. BASE TO HOLD NOZZLES AND SUPPLY PIPES. FRANK P. BUCKLEIN, Los Angeles, Calif. Filed Sept. 20, 1928. Serial No. 307,091. 1 Claim. (Cl. 299—105.)

In a bottle washing machine or the like, a plurality of nozzle bases rigidly secured to a supporting structure having hollow interiors, nozzles mounted on said bases and in communication with said interiors, one of said nozzle bases having a supply pipe supplying fluid to its interior, a distributing pipe detachably fastened to the sides of the nozzle bases, said distributing pipe being



in communication with the interior of the mentioned nozzle base to receive finid therefrom and convey it to the interior of the adjacent nozzle bases, whereby the distributing pipe may be detached from the nozzle bases, cleaned and replaced without disturbing the positions of the nozzles.

1,786,147. CHUCK. DUDLEY B. BULLARD, Southport, Conn., assignor to The Bullard Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Jan. 15, 1927. Serial No. 161,319. 3 Claims. (Cl. 279—121.)

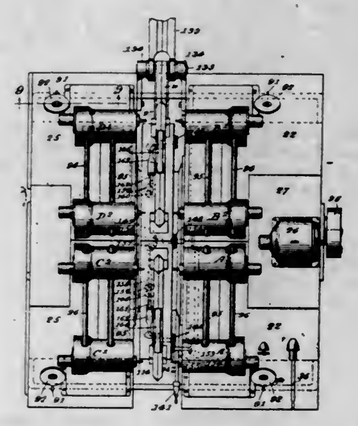


1. In a chucking device, a rotary work table, chuck jaws carried thereby, plungers having cam means connected to said jaws and adapted to have reciprocatory movement in parallel relation to the axis of rotation of said table, and actuating means engaging recesses in said plungers disposed coaxially to said table and adapted by movement in one or the other directions to impart opening and closing movements to said chuck jaws, said cam connection of jaws and plungers adapting them for reversed positioning in the table.

1,786,148. STATION-TYPE DRILLING AND TAPPING MACHINE. EDWARD P. BULLARD, Jr., Stratford, Conn., assignor to The Bullard Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 22, 1928. Serial No. 327,914. 32 Claims. (Cl. 29—38.)

1. In a machine of the class described, spaced apart frames, a rotatable work carrier mounted between the frames and having a series of work tables, means for indexing the carrier to move the work from one station to another for their respective operations, a series of tool heads arranged upon the front side of the machine on opposite sides of the carrier adapted for aligned drilling operations in opposite faces of the work, a series of tool heads arranged upon the rear side of the machine on opposite sides of the carrier adapted for aligned tapping

operations in opposite sides of the work when the latter has been moved from the front station to the rear, a drive shaft for each series of tool heads, a feed shaft

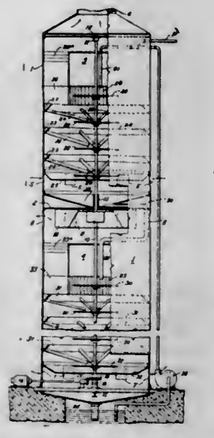


for each series of tool heads, and a variable speed feed works for each series of tool heads for providing variable speeds and feeds therefor.

1,786,149. RECLAIMED RUBBER. CHARLES H. CAMPBELL, Pittsburgh, Pa., assignor, by mesne assignments, to Peter Cooper Corporations, Wilmington, Del., a Corporation of Delaware. Filed Aug. 9, 1929. Serial No. 384,806. 2 Claims. (Cl. 18—52.)

1. Reclaimed rubber obtained from rubber scrap by a devulcanizing process having a hydrolytic action, in which the rubber scrap from which the reclaimed rubber is obtained has been subjected to the action of cleavage products obtained from tanned leather during the process of devulcanization of the rubber scrap from which the reclaim is made.

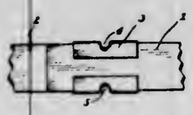
1,786,150. APPARATUS FOR PURIFYING GASES. SAMUEL C. CUTLER, Murray Hill, N. J. Filed Oct. 22, 1926. Serial No. 143,390. 7 Claims. (Cl. 261—89.)



1. A device of the character described, comprising, in combination, a casing, a partition dividing said casing

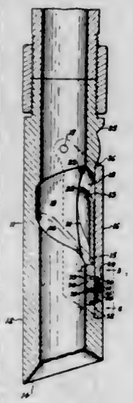
into two chambers, an air inlet and outlet for each of said chambers, a spraying device including a plurality of atomizing disks in each of said chambers, means for conducting fluid from the upper chamber to be atomized by the disks in the lower chamber, a sump in one of said chambers for collecting the sprayed liquid, and means for conducting liquid from said sump to the spraying device in said other chamber.

1,786,151. BOX-STRAP SEAL. OTIS L. DAVIS, Warren, Ohio, assignor to Brainard Steel Corporation, Warren, Ohio, a Corporation of Ohio. Filed Nov. 2, 1929. Serial No. 404,355. 3 Claims. (Cl. 24—23.)



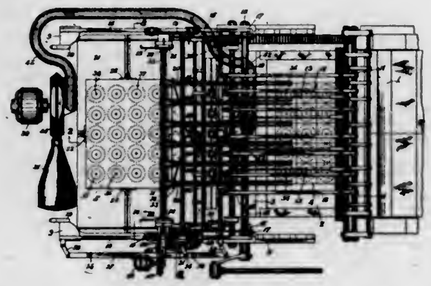
1. A strap seal comprising overlapped metal strap-ends and a sleeve embracing their edges, a portion of the edges of the straps being swaged inwardly to provide indentations therein and laterally displaced shoulders projecting from each side thereof, the portion of the sleeve adjacent to said swaged portions of said strap edges being deformed to conform with the contour thereof, whereby the said shoulders are positively interlocked with the deformed portion of the sleeve.

1,786,152. BAILING TOOL AND SAMPLE TAKER. JOSEPH F. DORNACHER, Massillon, Ohio. Filed June 23, 1928. Serial No. 287,666. 10 Claims. (Cl. 166—19.)



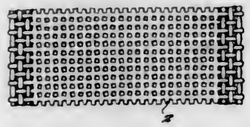
1. A tool for bailing and the like, including a tubular member having walls forming a continuous unobstructed passage-way from end to end thereof, there being an enlargement in the passage-way intermediate and spaced from the ends thereof, and a downwardly concave oval spoon shaped closure member pivotally mounted in the walls adjacent the enlargement for movement within the enlargement, the closure member being adapted to be swung to one position within the enlargement for entirely closing off the continuous passage-way and to another position within the enlargement permitting free passage of material being bailed along the passage-way.

1,786,153. APPLIANCE FOR OPERATING UPON SHEETS. JAMES E. DOYLE, Cleveland, Ohio. Filed Aug. 25, 1927. Serial No. 215,362. 12 Claims. (Cl. 164—99.)



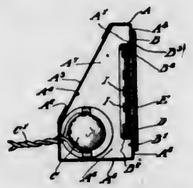
11. In combination, a cylinder, a platen, mechanism for causing a rolling contact therebetween, dies carried by the platen for severing a portion from a sheet, mechanism for conveying the sheet from said cylinder and suction means for removing the severed portion during its conveyance by said mechanism.

1,786,154. RADIOTUBE. WILBUR B. DRIVER, East Orange, N. J. Filed June 27, 1929. Serial No. 374,049. 2 Claims. (Cl. 250—27.5.)



2. A plate for a radio vacuum tube of wire mesh, the wires of said mesh in substantially the same plane, the surfaces of said mesh being smooth, the free edges of said wire mesh having a substantially solid metallic selvedge integral with the wires in the same plane as the wire mesh.

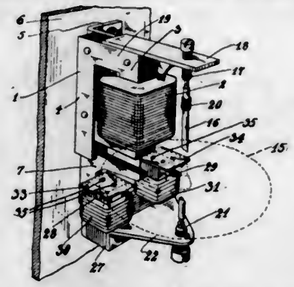
1,786,155. SIGN. PETER A. FARRELL. Brooklyn, N. Y. Filed May 6, 1929. Serial No. 360,623. 3 Claims. (Cl. 40—133.)



1. A sign comprising a translucent opalescent back plate, a sheet of thin colored gelatin, a translucent sheet of different color from that of said sheet of gelatin, and a front plate of transparent material, said translucent sheet having characters formed therein by removing a portion thereof, and means for holding said sheets firmly between said plates.

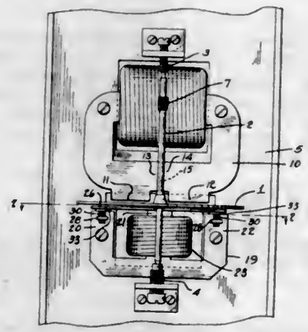
1,786,156. INDUCTION METER. HANS FRÖHLICH and WERNER ZINGG, Zug Switzerland, assignors to Landis & Gyr, A.-G., a Joint-Stock Company of Switzerland, Zug, Switzerland. Filed July 19, 1928, Serial No. 293,939, and in Switzerland Sept. 9, 1927. 3 Claims. (Cl. 171—264.)

1. An induction meter including in combination a meter disc, magnetic driving means therefor including pole enlarging devices comprising plates of magnetic material of greater area than the end face of the magnet pole pieces,



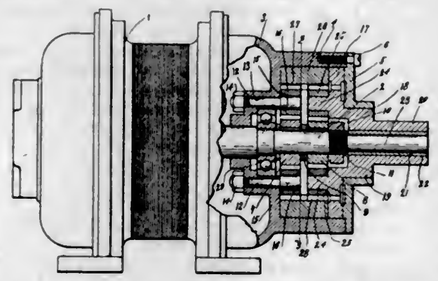
secured to and completely overlying the end faces of the pole pieces and extending beyond the outside edges of adjacent pole pieces and away from each other.

1,786,157. INDUCTION METER. HANS FRÖHLICH, Zug, Switzerland, assignor to Landis & Gyr., A.-G., a Joint-Stock Company of Switzerland, Zug, Switzerland. Filed Apr. 17, 1928, Serial No. 270,666, and in Switzerland Apr. 25, 1927. 3 Claims. (Cl. 171—264.)



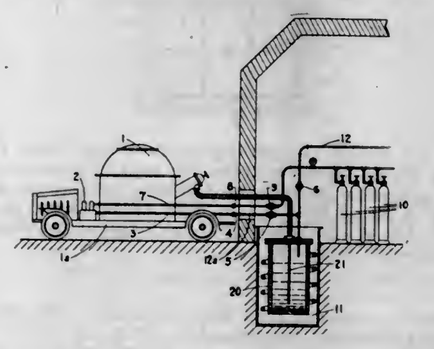
1. An induction meter including in combination a meter disc, driving means therefor including pressure and current magnet and a shunt plate surrounding and spaced from one pole piece of the current magnet core and overlying and secured to another pole piece of the current magnet core, the pressure magnet being so positioned relative to the shunt plate that the plate forms a counter-pole for the pressure-magnet.

1,786,158. REDUCTION GEARING. CHARLIE L. HAWES, Ashtabula, Ohio. Filed Dec. 1, 1927. Serial No. 236,897. 4 Claims. (Cl. 74—34.)



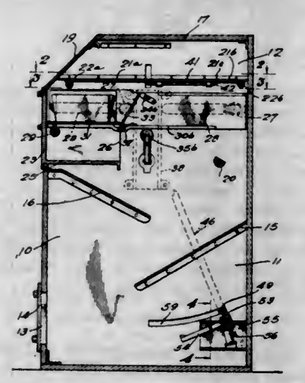
1. A power transmission unit comprising a housing, a shaft journalled in said housing, pinions of unequal pitch diameters fixed on said shaft, a pinion mounted in said housing for rotation about a fixed axis and meshing with one of said shaft pinions, a disk provided with a cylindrical projection from one face thereof, said projection being journalled in said housing and upon said shaft, a pinion carried by said disk in mesh with the other of said shaft pinions, said disk and housing pinions having unequal pitch diameters and an internal annular gear having its periphery journalled in the internal surface of said housing in mesh with said fixed pinion and with said disk pinion, said disk having its peripheral portion located between said housing and said annular gear and maintaining said annular gear in longitudinal position in said housing.

1,786,159. TRANSFERRING LIQUEFIED GASES. CHRISTIAN WILHELM PAUL HEYLANDT, Berlin-Lankwitz, Germany. Filed Feb. 9, 1929, Serial No. 338,653, and in Germany Feb. 16, 1928. 3 Claims. (Cl. 62—1.)



1. The process of supplying gases at a predetermined pressure, which consists in charging a closed vessel with liquefied gas, vaporizing the liquid in said vessel and causing the major portion of the gas to flow therefrom at the desired pressure, and mechanically drawing off the residue from said vessel and compressing it to the required pressure.

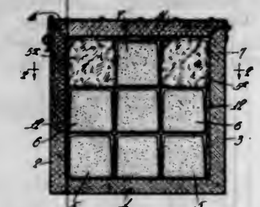
1,786,160. MONEY TRAY AND SAFETY RECEPTACLE THEREFOR. CHARLES T. JAMES, Los Angeles, Calif. Filed Apr. 24, 1929. Serial No. 357,870. 6 Claims. (Cl. 109—1.)



1. In a device of the character described, the combination of a safe receptacle having a chute for passage of articles thereinto; a slidable article retaining tray at the inlet of said chute, supports carrying rollers for said tray to ride upon, said tray being pivotally mounted so as to be disposable in article dumping position and to de-

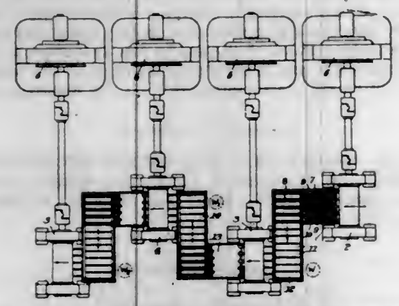
liver articles to said chute, said supports being retractable to enable said tray to move to dumping position, said tray tending to swing to dumping position, a trigger mechanism to normally hold said supports with said tray in article retaining position and operable to enable retraction of said supports and release said tray whereby to dump the articles into said chute and thence into said receptacle.

1,786,161. STORAGE AND TRANSPORTATION OF SOLID CARBON DIOXIDE. CHARLES L. JONES, Pittsburgh, Pa., and JOHN D. SMALL, Douglaston, N. Y., assignors to Dryice Equipment Corporation, New York, N. Y., a Corporation of Delaware. Filed Apr. 6, 1929. Serial No. 353,238. 21 Claims. (Cl. 62—91.5.)



1. The method of protecting blocks of solid carbon dioxide which includes enclosing the same in a container and protecting the same by additional solid carbon dioxide in such a state of subdivision and so located that most of it will evaporate before the shapes of the blocks are seriously impaired.

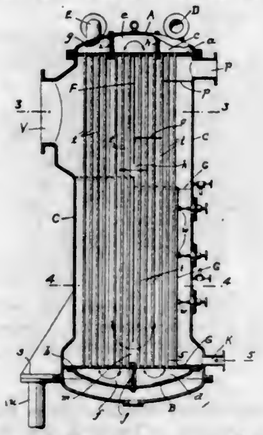
1,786,162. APPARATUS FOR ROLLING SHEETS. JULIAN KENNEDY, Pittsburgh, Pa. Filed Jan. 19, 1929. Serial No. 333,634. 7 Claims. (Cl. 29—17.)



7. Apparatus for rolling sheets comprising a plurality of stands, the stands being laterally offset relative to one another, and tables extending between the stands, a table comprising a portion lying at the exit side of a stand and extending in the direction of travel of material as it leaves such stand, and a second portion extending at substantially right angles thereto, said second portion terminating in a stop whereby the material may be squared, the tables being so positioned and arranged that a workman standing alongside a table may engage material thereon and feed it into a stand.

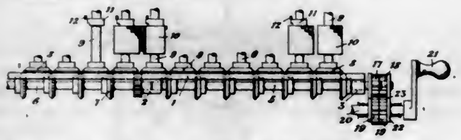
1,786,163. CONDENSER FOR MIXED VAPORS. GOTTDANK L. KOTHNY, Strafford, Pa., assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 6, 1925. Serial No. 41,732. 11 Claims. (Cl. 257—223.)

1. Apparatus for condensing a vapor mixture comprising a single shell, tube structure therein conducting cooling medium, vertically disposed baffle structure having a passage for condensate at its lower end and a passage for vapors intermediate its upper and lower ends, a vapor inlet on one side of said baffle structure, baffle structure disposed between said tube structure and said shell and



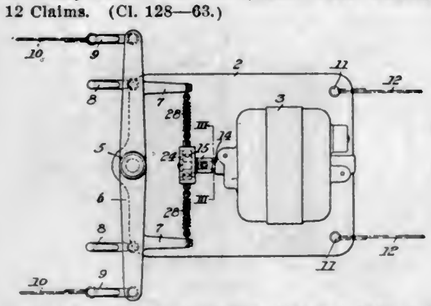
over whose upper end flows the condensate flowing through said first named passage, and an outlet through which condensate flowing over said second baffle structure is discharged.

1,786,164. DRIVE FOR THE STEPPED DRUMS OF CALCULATING MACHINES. AUGUST KOTTMANN, Sommerda, Germany, assignor to the Firm Rheinische Metallwaaren und Maschinenfabrik Sömmerda Aktiengesellschaft, Sommerda, Germany. Filed Nov. 23, 1926, Serial No. 150,331, and in Germany Dec. 10, 1925. 4 Claims. (Cl. 235—81.)



3. In a calculating machine, the combination of a plurality of stepped drums, tens transfer mechanism for at least some of said drums, a rotatable drive shaft, and drive connections between said drive shaft and the drums for rotating the latter, the drive connections being in such phase relation to each other that each drum will lag the drums of lower denomination for so many tooth pitches as such last-mentioned drums contain tens transfer teeth.

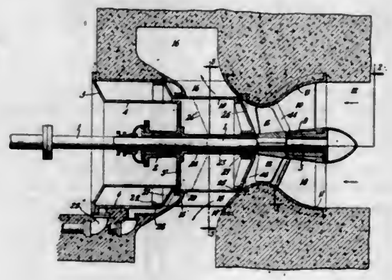
1,786,165. MECHANICAL EXERCISING DEVICE. HARRY E. MCCOY, Pittsburgh, Pa., assignor to McDowell Manufacturing Company, Millvale, Pa., a Corporation of Pennsylvania. Filed Feb. 8, 1929. Serial No. 338,415. 12 Claims. (Cl. 128—63.)



7. In a mechanical exercising device, a base, a lever mounted on the base for oscillation in a horizontal plane,

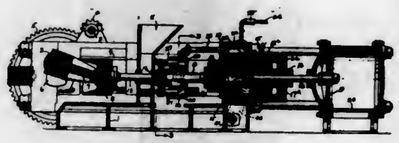
a power driven eccentric, an enclosing member in which the eccentric operates, and a flexible universal connection between said member and said lever for transmitting motion from the eccentric to the lever in a horizontal plane only.

1,786,166. HYDRAULIC TURBINE. LEWIS FERRY MOODY, Philadelphia, Pa. Original application filed June 28, 1918, Serial No. 242,391. Divided and this application filed Mar. 31, 1923. Serial No. 629,105. 40 Claims. (Cl. 253—154.)



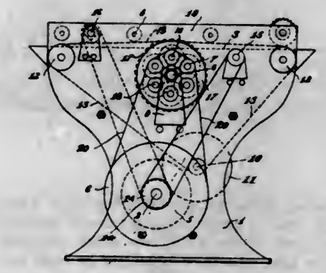
1. In a hydraulic turbine an axially directed contracting intake passage having vanes therein to impart a whirl to the entering flow, a runner coaxial with and in said passage receiving said flow and having a substantially axial discharge located at the smallest diameter of said passage, which contracts down to a point substantially adjacent said runner, and a spreading draft tube adapted to decelerate the runner discharge between inner and outer surfaces of revolution.

1,786,167. BRIQUETTING MACHINE. ALOIS K. NOWAK, Chicago, Ill., and RICHARD W. DINZL, Philadelphia, Pa., assignors to Alois K. Nowak, Chicago, Ill., and Frank H. Smith, Akron, Ohio. Filed Sept. 2, 1927. Serial No. 217,070. 7 Claims. (Cl. 25—56.)



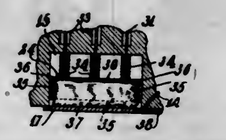
1. In a briquetting press, a supporting frame, an open ended tubular mold casing, a thrust receiving plunger extending into one end of the mold casing, a pressure applying plunger movable into and out of the opposite end of said mold casing, said mold casing and plungers being aligned axially and each mounted for axial movement in the frame, mechanical means for continuously reciprocating said pressure plunger with a stroke of predetermined length, actuating means operating in timed relation to the stroke of the pressure plunger to shift the mold casing from material receiving position in which it projects beyond the end of the thrust plunger to a position in which the thrust plunger extends through the casing to eject a molded briquette, and differential cushioning means for yieldably resisting movements of the mold casing and thrust plunger in the direction of the pressure stroke of the pressure plunger, said cushioning means permitting movement of the mold casing under an end thrust relatively light as compared to the end thrust required to move the thrust plunger, whereby the thrust plunger is advanced in the mold casing during compression of a briquette and the actuating means for the mold casing is protected against excessive stresses.

1,786,168. MULTIPLE-SAW WOODWORKING MACHINE. FREDERICK WILLIAM PATTON, Victoria, British Columbia, Canada. Filed Aug. 24, 1926. Serial No. 131,267. 1 Claim. (Cl. 143—47.)



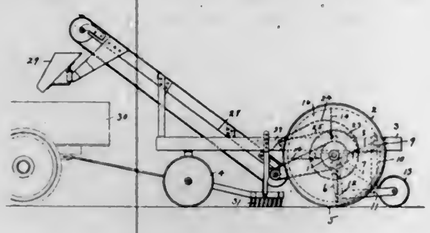
In a multiple-saw wood-working device for the production of plaster-board the combination comprising, a framework carrying a horizontal saw table with a main shaft transversely below it, a double flange member secured to said shaft and carrying a plurality of bearings whose axes are parallel with and symmetrically disposed around the axis of said shaft sprockets on the periphery of one of said flanges and means for rotating said flange member by a driving chain engaging said sprockets, spindles secured to circular saws and revolvable in said bearings, belt pulleys secured to said spindles at each end thereof, a driving belt engaging simultaneously a plurality of adjacent pulleys, the said spindles being so disposed that the projected peripheries of saws on adjacent spindles intersect thereby producing an inter-spaced or break-joint effect in the disposition of the cuts made by the said saws in the plaster-board.

1,786,169. SAFETY PARACHUTE DEVICE FOR AEROPLANES. VINCENZO PELLEGRINO, Rye, N. Y. Filed Mar. 15, 1929. Serial No. 347,227. 4 Claims. (Cl. 244—21.)



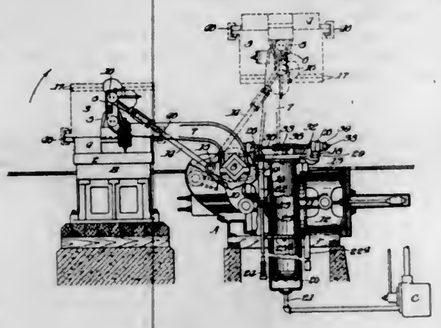
1. In an aeroplane, wings formed with parachute storage chambers, doors normally closing the chambers, latches for holding the doors closed, ejecting means within each chamber for ejecting a parachute automatically upon the opening of the door, and a means for disengaging the latches, said ejecting means consisting of platforms arranged to move within the chambers and urged outwardly by springs and arrested in fully extended positions by stop arms, and side members pivoted on the platforms and urged outwards by springs so as to assume positions in the same plane as the platforms in the extended position of the platforms.

1,786,170. STONE-GATHERING MACHINE. OTIS F. REITER, Baltimore, Md., assignor to The Farmers Stone Picking Machine Company, a Corporation of Maryland. Filed July 5, 1928, Serial No. 290,450. Renewed May 16, 1930. 2 Claims. (Cl. 55—17.)



1. In a stone gatherer, a rotatable axle, a wheel on each end of said axle, a series of raker teeth operatively supported rearward of the axle, two disks mounted on said axle between said wheels, a plurality of bars each having its ends projecting through said disks, a cam mounted on one end of each of said bars and having a slot therein, a number of springs each having one end connected to one of said cam slots and their opposite ends secured to said disk, a series of lifting teeth carried by said bars and a series of conveyor bars upon which the lifting teeth discharge, said conveyor bars being downwardly inclined at their front ends to allow the stones to fall therefrom.

1,786,171. MOLDING MACHINE. ROBERT F. RINGLE, Zellenople, Pa. Filed May 29, 1929. Serial No. 366,864. 9 Claims. (Cl. 22—45.)

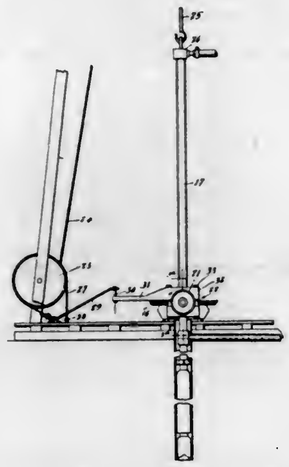


1. In a bumping machine, the combination of a flask support, means for raising and turning the flask support, and a flask supporting equalizing table having a pair of independently adjustable vertically cushioned supporting rails.

1,786,172. MERCURY DERIVATIVE OF TETRA-IODO-FLUORESCEIN. LOUIS M. ROEO, Worcester, Mass., assignor to Brewer & Company, Incorporated, Worcester, Mass. Filed Nov. 11, 1927. Serial No. 232,703. 2 Claims. (Cl. 260—13.)

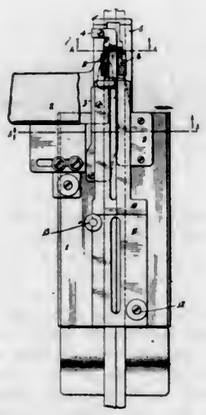
1. The herein described novel products having germicidal therapeutic properties comprising a neutral stable alkali-metal salt of the mono-mercury derivative of tetra-iodo-fluorescein without any excess of alkali.

1,786,173. DRILLING APPARATUS. CHARLES C. SCHARPENBERG, Bakersfield, Calif., assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif., a Corporation of Delaware. Filed Apr. 17, 1926. Serial No. 102,623. 10 Claims. (Cl. 255—4.)



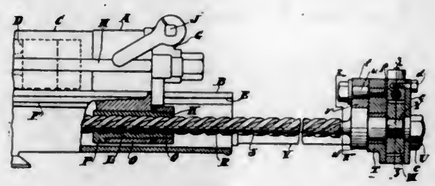
1. In hydraulic drilling apparatus, the combination of a drill stem carrying a drill bit, a motor operating to rotate said bit in one direction and rotate the drill stem in the other direction, and variable means for yieldingly resisting the rotation of the drill stem to regulate the rotation of the drill bit.

1,786,174. SEWING-MACHINE GUIDE FOR HOOK TAPE. DAVID SILBERMAN, New York, N. Y. Filed May 1, 1929. Serial No. 359,438. 3 Claims. (Cl. 112—136.)



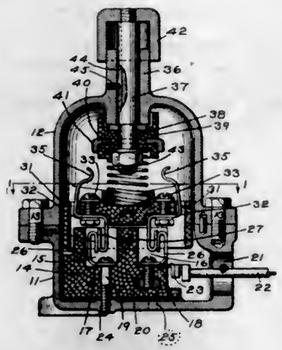
1. A sewing machine guiding device for hook tape comprising a thin tongue over which the hook bills are adapted to ride to the sewing point and extending past the sewing point and a second, co-operating tongue above and partly overlying the hook tongue adapted to engage the rear ends of the hook bills to force them against the hook tongue.

1,786,175. FEEDING DEVICE FOR PERCUSSIVE MOTORS. WILLIAM A. SMITH, Sr., Easton, Pa., and JOSEPH I. HULSHIZER, Stewartsville, N. J., assignors to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Jan. 30, 1930. Serial No. 424,617. 8 Claims. (Cl. 255—45.)



1. In a feeding device, the combination with a motor and a support whereon said motor is slidably mounted, a reciprocatory hammer piston in the motor imparting jars thereto tending to move the motor longitudinally of the support, of recoil resistance means operatively connected to the motor and the support and comprising a pair of members in threaded engagement with each other and one of which members is adapted to be rotated by the motor upon movement thereof on the support, and stop means for selectively controlling the direction of rotation of the rotatable member to enable the motor to be advanced and retracted with respect to the support by the piston.

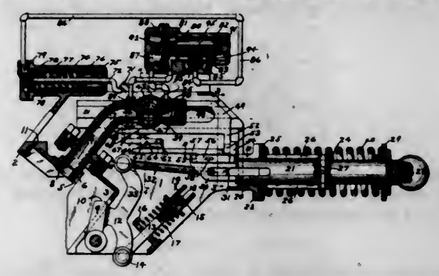
1,786,176. ELECTRIC-SWITCH DEVICE. THOMAS H. THOMAS, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Sept. 7, 1928. Serial No. 304,606. 1 Claim. (Cl. 200—51.)



An electric switch comprising a base, a pair of terminals mounted in said base, a contact member fixed to each terminal and projecting upwardly therefrom, a cap detachably bolted to the base, a pair of contact members mounted in the cap, each of said cap contact members having a depending limb for engaging with a base contact member when the cap is fixed to the base and an upwardly projecting limb, a plunger mounted in the cap and carrying a collar for electrically connecting the upstanding limbs of the cap contact members, and a spring mounted in the cap and bearing against the plunger to normally maintain said collar out of engagement with said upstanding limbs.

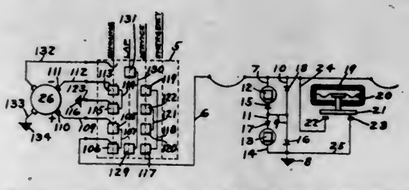
1,786,177. BRAKE-PIPE CUT-OFF VALVE. THOMAS H. THOMAS, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Sept. 7, 1928. Serial No. 304,608. 2 Claims. (Cl. 284—12.)

1. The combination with a train pipe coupling having a head provided with a train pipe passage, a valve rotatably mounted in the passage, means operated by a predetermined movement of the coupling head relative to the car



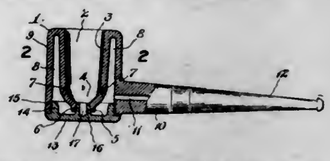
for rotating the valve to partially open the passage, and means actuated by the pressure of fluid flowing past the valve for rotating the valve to fully open the passage.

1,786,178. ELECTROPNEUMATIC BRAKE. THOMAS H. THOMAS, Edgewood, and JOHN N. GOOD, Wilmerding, Pa., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Feb. 21, 1929. Serial No. 341,603. 10 Claims. (Cl. 303—20.)



1. An electro-pneumatic brake having a single train wire, means for supplying either direct or alternating current to the train wire, magnet valve devices connected to said train wire and controlled according to the direction of current in said wire for controlling the service application and release of the brakes, and an electropneumatically actuated switch mechanism for short circuiting said magnet valve devices for effecting an emergency application of the brakes.

1,786,179. SMOKING PIPE. HERMAN J. TRENKAMP, Cleveland Heights, Ohio. Filed June 11, 1928. Serial No. 284,338. 4 Claims. (Cl. 131—12.)

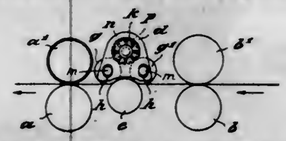


1. A smoking pipe fashioned with two spaced annular bowl-forming walls, the lower end of each wall defining a round opening, a stem communicating through the outer wall, said inner wall being fashioned with a plurality of draft ducts downwardly inclined in an outward direction to afford communication with the space between said walls and a single detachable closure including projections one of which is fitted within each of said wall-defined openings.

1,786,180. DRAWING FRAME WITH PASSAGES FOR USE ON SPINNING MACHINES. JOHANNES VON TAUMBACH, Dusseldorf-Oberkassel, Germany. Filed Mar. 2, 1929, Serial No. 344,086, and in Germany Aug. 23, 1928. 3 Claims. (Cl. 19—130.)

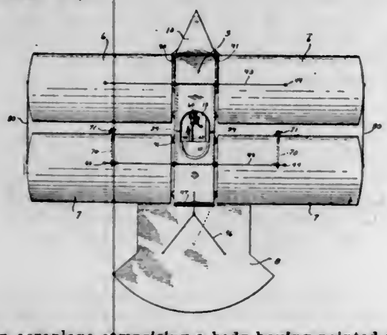
1. For use in a drawing apparatus for spinning machines, a nipper movably mounted above a drawing cylinder in-

cluding a pressure jaw for bearing on the yarn said pressure jaw presenting pressure surfaces, for co-operating with said drawing cylinder, comprising freely mounted



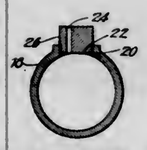
rollers provided with frictional peripheral surfaces and interdriving means between said rollers, substantially as and for the purposes hereinbefore set forth.

1,786,181. AEROPLANE. JERRY S. WALKER, Seminole, Okla., assignor of five forty-eighths to James B. Allen, one-twelfth to Claud A. Wilson, one-twelfth to Emmett C. Wilson, one-twelfth to Edd T. Mayes, one-twelfth to Edward C. Kelley, one twenty-fourth to Samuel S. Green, and one forty-eighth to Ted Morgan, Seminole, Okla. Filed Dec. 18, 1928. Serial No. 326,799. 8 Claims. (Cl. 244—12.)



1. An aeroplane comprising a body having pointed front and rear ends, sets of wings mounted in tandem to project laterally from opposite sides of the body, said wings being pivotally mounted to tilt about an axis transversely of the body, and a relatively large sustaining tail pivotally mounted above the rear end portion of the body.

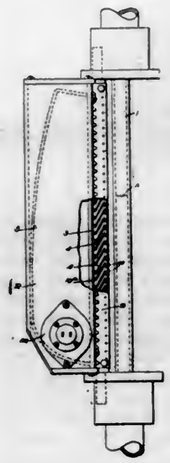
1,786,182. SOOT BLOWER. LOUIS C. WHITON, Jr., and JEP C. HARDIGG, New York, N. Y., assignors to Prat-Daniel Corporation, New York, N. Y., a Corporation of New York. Filed July 30, 1926. Serial No. 125,902. 2 Claims. (Cl. 257—1.)



1. The combination with a heat exchanger having a multiplicity of spaced cells, of a blower comprising a pipe having a number of substantially circular openings therein in approximately alignment with said cells, and adjustable nozzles journalled in said openings and having outlet ports eccentric thereto so that said ports can be accurately aligned with said cells by partially rotating the nozzles relatively to said pipe.

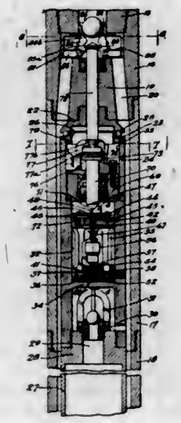
1,786,183. GAUGE-GLASS ILLUMINATOR. CLARENCE E. WILSON, Concord, Mass., assignor to National Company, Inc., Malden, Mass., a Corporation of Massachusetts. Filed Mar. 1, 1929. Serial No. 343,682. 11 Claims. (Cl. 240—2.)

1. A liquid column illuminator comprising a housing having an opening in one side facing a gauge glass containing the column of liquid, a source of light located within the housing adjacent to one end thereof, a parabolic reflector within and extending substantially the entire length of the housing, said reflector being shaped to



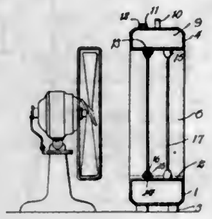
receive rays of light from said source of light and to reflect them at an angle toward and through said opening in the housing, thereby to strike the meniscus at the top of the column of liquid clearly to indicate the location of the meniscus with relation to the gauge glass.

1,786,184. INCLINOMETER. CLAY G. WOODMANSEE, Los Angeles, Calif., assignor of one-half to Lincoln Drilling Company, Los Angeles, Calif., a Corporation of California. Filed May 15, 1929. Serial No. 363,134. 7 Claims. (Cl. 33—205.)



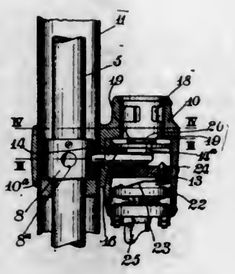
1. An instrument for determining the direction of holes, comprising a cage, a compass having a normally free needle to indicate orientation, locking means to hold said needle in positon, a supporting frame mounted for longitudinal movement in said cage, an elongated pendulous body supported in said supporting frame and normally free at one end, an abutment in said cage for the free end of said body and arranged to be normally free of and to be engaged by the free end of said body upon movement of said supporting frame to engagement of said body with said abutment and thereby to hold said pendulous body in indicating position, and a connection between said abutment and said locking means to actuate the latter and to hold said needle in indicating position when said supporting frame is held in indicating positibn.

1,786,185. AIR COOLER. VIRGIL WRIGHT, Dallas, Tex. Filed Nov. 16, 1928. Serial No. 319,935. 5 Claims. (Cl. 261—103.)



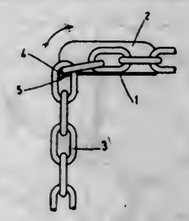
1. An air cooler including upper and lower tanks provided at corresponding ends thereof with a double wall supporting said tanks in spaced relation and defining a passage for returning a liquid from a lower tank to the upper tank when the cooler is inverted, an air passage being defined between the tanks, and wicks extending between the tanks for conducting liquid from the upper tank to the lower tank whereby the wicks will be moistened for cooling air currents flowing about said wicks.

1,786,186. STEERING-SHAFT LOCK. FRED E. BAUERMEISTER, Columbus, Ohio. Filed Apr. 19, 1928. Serial No. 271,325. 2 Claims. (Cl. 70—127.)



1. Means for locking a steering shaft contained within the steering post of a motor vehicle comprising a lock case, a locking mechanism therein including a key thrown bolt, a block provided with a transverse perforation supporting the bolt, said bolt adapted to engage the steering post at its inner end to lock the same, means for clamping said case to the steering post, a firing circuit for said motor vehicle extending into said case, said circuit including a circuit closing spring carrying a pin, the latter extending through the perforation of the block to be directly actuated by the outer end of the bolt to move said spring to circuit closing position when the bolt is thrown from locking position.

1,786,187. ADJUSTABLE CLASP. DOLORES DE PLANDOLIT Y BORDAS, Barcelona, Spain. Filed Aug. 24, 1928, Serial No. 301,917, and in Spain Sept. 1, 1927. 1 Claim. (Cl. 24—116.)



A clasp of the character described, comprising a flat bottom plate having a portion at one end thereof curved out of the plane of the remainder of the plate, said curved portion being provided with a centrally disposed slot, and a pair of side walls disposed at right angles to the flat portion of the bottom plate.

1,786,188. METHOD AND APPARATUS FOR STRETCHING FABRICS. ARNOLD BOSSHARD, Arbon, Switzerland, assignor to Sir James Farmer Norton & Company Limited, Lancashire, England, a British Company. Filed July 7, 1928, Serial No. 290,961, and in Germany Feb. 3, 1928. 6 Claims. (Cl. 26—63.)

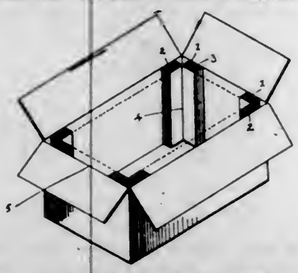


1. A breadth stretching device for fabrics comprising a curved axle, a plurality of roller segments of different diameters rotatively mounted on the axle for progressing a web of fabric forwardly while stretching it in breadth, the diameters of said segments increasing progressively toward the lateral edges of the web of fabric whereby the roller segments are adapted to progress the web forwardly with substantially equal velocity at all points along the roller, and means for rotating said segments together.

1,786,189. CORNER-CUSHION-PAD PACKING DEVICE. WILBER E. BOWERSOCK, Rochester, N. Y., assignor to Rochester Folding Box Company, Rochester, N. Y., a Corporation of New York. Filed Nov. 15, 1928. Serial No. 319,516. 3 Claims. (Cl. 229—14.)

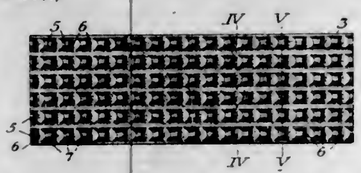
1. A packing device having two sections each consisting of a cushion pad made up of a series of layers of paper products, the sections being joined together by the top layer which extends across and is attached to both sections, said top layer acting as a hinge for the two sections, said packing device being adapted to be placed

in the corner of a box on the inside of the box with one section bearing against one side of the box and the other section bearing against the adjacent side of the box said sections being located between the top connecting layer and the box, said sections being placed on each



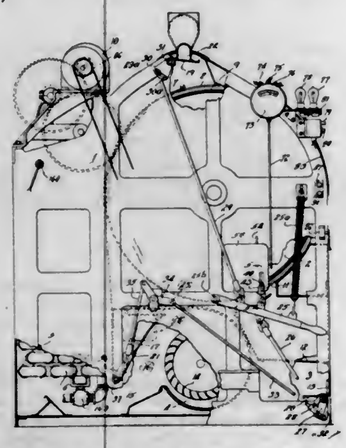
side of the corner line of the box with an air space between them, the device being interposed between the contents of the box and the corner of the box and being adapted to be inserted in the corner of the box after the contents of the box has been placed in the box.

1,786,190. FRICTION SURFACE. HERMAN F. BUSCH, Millvale, Pa., assignor to Armstrong Cork Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 28, 1926. Serial No. 105,200. 5 Claims. (Cl. 130—307.)



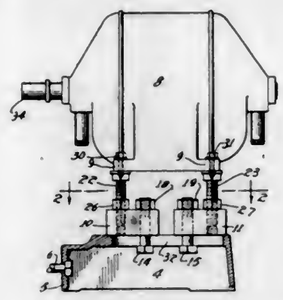
1. A compressed artificial cork body having a plurality of integral projections thereon forming an irregular frictional surface, the planes of compression of the cork granules being at an angle to the working surface at the top of the projections.

1,786,191. CONTROLLING MECHANISM FOR DRYING TUMBLERS. EMIL J. CARROLL, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Filed Jan. 12, 1925. Serial No. 1,915. 18 Claims. (Cl. 34—5.)



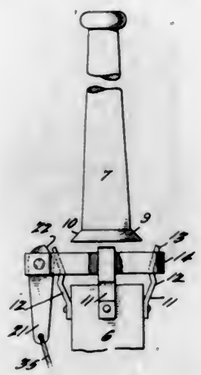
1. Apparatus of the character described comprising a chamber for the material to be treated, shiftable means enabling first hot air and then cold air to be passed over the material to be treated, and means sensitive to the temperature of said air current for first shifting said means at one temperature and producing a signal at another temperature of the air current.

1,786,192. SUPPORT FOR ELECTRIC MOTORS. OTTO CULLMAN, Chicago, Ill. Filed Oct. 15, 1928. Serial No. 312,569. 1 Claim. (Cl. 248—15.)



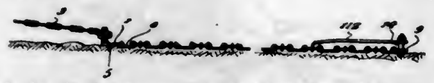
In a support for electric motors, a base having a table thereto and said table provided with slots, blocks on said table and bolts extending through said slots and blocks, nuts on said bolts, in combination with bolts extending into corresponding screw threaded holes in said blocks, nuts on said last named bolts, a motor casing mounted on the upper ends of said last named bolts, and additional bolts extending through apertures in the foot members of said motor casing and into corresponding screw threaded holes in the upper ends of said last named bolts.

1,786,193. AEROPLANE-CONTROL DEVICE. MCCLELLAN DAVIS, Portland, Oreg. Filed Sept. 4, 1928. Serial No. 303,783. 4 Claims. (Cl. 244—29.)



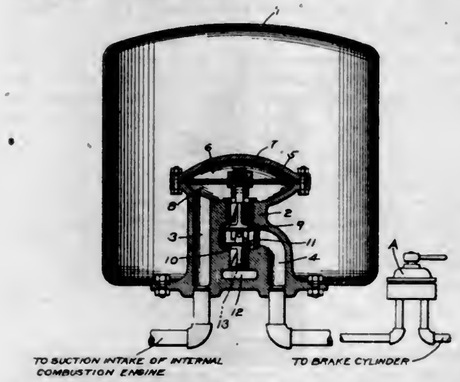
1. A dual control for aeroplanes, including connected joy sticks, one of said sticks being made in separable sections, clamping fingers carried by one of the sections and adapted to engage and interfit with the other section, said fingers being inherently tensioned to move to a positon to release such other section, a ring adapted for contraction and expansion, said ring encircling the fingers, and means whereby the ring may be constructed to move the fingers into clamping cooperation with the other stick section.

1,786,194. HARROW. DEAN D. DICKINSON, Ayr, N. Dak. Filed July 6, 1929. Serial No. 376,432. 2 Claims. (Cl. 55—32.)



1. An implement of the character specified comprising front and rear bars, a flexible member between and connecting said bars and consisting of interlooped rings and links, bars rigidly connected at their front ends to certain elements of the flexible member and extending rearwardly over the flexible member and having loose connection at their rear ends with the said rear bar.

1,786,195. POWER BRAKING APPARATUS. JULES MARIE JOSEPH DORMOY, Paris, France, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 31, 1928, Serial No. 316,289, and in Great Britain Nov. 26, 1927. 4 Claims. (Cl. 303—31.)



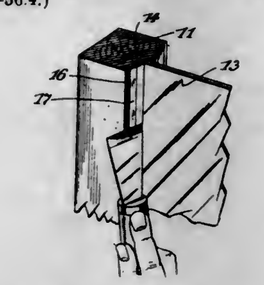
1. In a power braking apparatus, the combination with a vacuum source, of a reservoir communicating with said source, a brake supply pipe, and means subject to the opposing pressures of the reservoir and the vacuum source for controlling communication from said vacuum source and from said reservoir to said brake supply pipe.

1,786,196. METHOD AND APPARATUS FOR DETERMINING THE LOCATION OF WATER STRATA IN WELLS. GEORGE H. ENNIS, Long Beach, Calif., assignor of one-half to Robert V. Funk, Anaheim, Calif. Filed Jan. 9, 1926, Serial No. 80,160. Renewed Dec. 28, 1929. 10 Claims. (Cl. 234—1.5.)



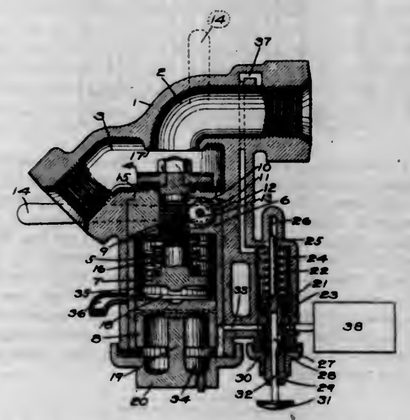
1. The method of locating water bearing strata in a well, comprising: disolving an ionizable chemical in the water in said well; lowering plates into said solution of a character to form a voltaic cell when disposed in said solution; moving said plates through said solution while held in spaced relation; and recording the potential difference between said plates during said movement.

1,786,197. FRAME. ALBERT ENTENMAN, Brooklyn, N. Y. Filed June 3, 1927. Serial No. 196,172. 1 Claim. (Cl. 20—56.4.)



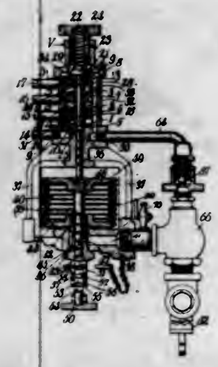
A frame to receive and mount therein a transparent panel, the frame having an inside peripheral shoulder against which the panel rests and being provided with an inside peripheral groove adjoining the shoulder and situated between the shoulder and one face of the frame, the panel when in engagement with the shoulder projecting into one side of the groove with its edges spaced from the inner end of the groove, the frame also having an inwardly-extending bead between the groove and said face and forming the side of the groove adjacent the shoulder, the inner edge of said bead being bevelled all around the frame at such an angle that when a tool is laid against said edge it will make contact with the surface of the panel at a point which is flush with the inside of the frame so that the groove may be filled with a plastic retaining substance which can be worked into place by the tool so that said substance does not extend beyond the inside of the frame.

1,786,198. ANGLE-COCK DEVICE. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed July 23, 1927. Serial No. 207,845. 8 Claims. (Cl. 303—86.)



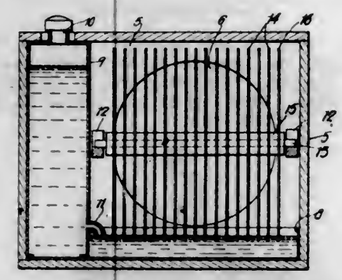
1. A train pipe angle cock device having a conduit for the flow of fluid under pressure, means for controlling communication through said conduit, and means operable upon the operation of the first mentioned means for indicating visibly the degree of control of the communication through said conduit.

1,786,199. VALVE MECHANISM. ALEXANDER D. FERGUSON, Michigan City, Ind., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Original application filed Aug. 11, 1922, Serial No. 581,253. Divided and this application filed Mar. 26, 1926. Serial No. 97,711. 13 Claims. (Cl. 137—153.)



1. In combination, a source of pressure fluid provided with a pop valve, a plurality of coaxially disposed valve seats in common communication with said source, a separate discharge passage leading from each of said valve seats, a plurality of coaxially disposed valves cooperating with said seats to control flow of pressure fluid to said passages, and operating means for said several valves adapted to serially open the same including a pressure fluid motor actuated by fluid delivered from said source through said pop valve.

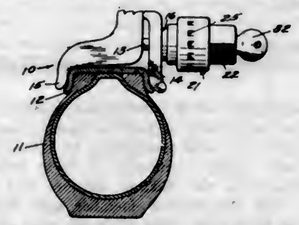
1,786,200. VENTILATING APPARATUS. CHARLES FERGUSON, Ellis Island, N. Y. Filed May 8, 1929. Serial No. 361,355. 1 Claim. (Cl. 183—24.)



In a ventilating apparatus of the character described, a housing having air passage at its opposite ends, a fan at one end thereof for driving air through the housing, a transversely extending shaft mounted for rotation in the housing, a series of absorbent discs mounted on the shaft in spaced relation, means for supplying water to the absorbent discs and a series of foraminous discs mounted on the shaft intermediate the absorbent discs and in spaced relation thereto, and foraminous discs constituting lateral supporting means for preventing excessive sagging or bending of the absorbent discs after the latter are saturated with water.

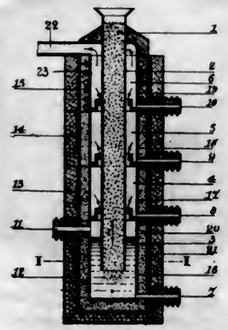
1,786,201. LOCKABLE BOLT NUT. ROBERT W. FISHBACK, Los Angeles, Calif. Filed Mar. 6, 1929. Serial No. 344,852. 8 Claims. (Cl. 70—122.)

1. A device of the nature disclosed, comprising: a nut member; an operating member, said members having companion clutch means and said operating member being freely rotatable on said nut member and adapted for



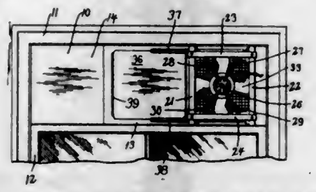
axial translation thereon to coengage said companion clutch means for unitary rotation of both members; and locking means for preventing such axial translation.

1,786,202. APPARATUS FOR HIGH-TEMPERATURE TREATMENT OF ORES AND OTHER SUBSTANCES. MARCEL FOURMENT, Paris, France. Filed Dec. 22, 1926, Serial No. 156,425, and in France Feb. 2, 1926. 3 Claims. (Cl. 266—1.5.)



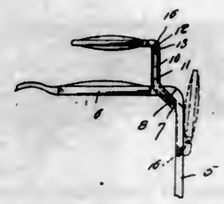
3. Apparatus suitable for volatilizing substances including metals of different boiling points, which comprises a vertical crucible divided into compartments by collecting parts carried on the inner walls of the crucible, located at different heights in the crucible, a substantially vertical feed pipe for introducing material to be treated, into the bottom part of said crucible, said feed pipe extending through the several compartments in said crucible, said crucible being surrounded by inductor windings, which windings are each substantially horizontal and are adapted to form part of a high frequency electric circuit.

1,786,203. VENTILATING DEVICE. ALFRED C. GILBERT, Hamden, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn. Filed July 5, 1928. Serial No. 290,499. 8 Claims. (Cl. 98—94.)



1. In a ventilator, a generally flat sheet metal body part having a ventilating opening therein, flat sheets of metal in surface to surface contact with the body part on the opposite faces thereof, one of said last-named sheets of metal forming an adjustable extension for the body part and the other of said sheets forming a damper for the ventilating opening, means for slidably mounting said sheets on the body part, a motor driven fan, and means for mounting said fan on the body part opposite the opening.

1,786,204. AUXILIARY LENS ATTACHMENT FOR EYEGLASSES. GUY GRAVITT, Lawrenceville, Ill. Filed June 2, 1927. Serial No. 196,066. 2 Claims. (Cl. 88—41.)

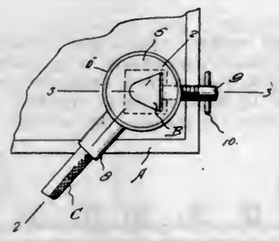


1. In a pair of eyeglasses having its glass frame hingedly connected to the side members thereof, a pivot pin for the hinges whereof, an angular rod formed integrally with said pin and having a head formed on one end thereof, a tubular link arranged upon the angular portion of said pin, an auxiliary lens frame having a yoke formed at one side thereof, means pivotally connecting said yoke upon said head, said auxiliary lens frame being adapted to move into or out of focusing position with respect to the lens of the eyeglass frame and means carried by the head engaging said yoke whereby to prevent the movement of the auxiliary lens frame beyond a position parallel with the eyeglass frame.

1,786,205. TRANSPARENT FILM. CLARENCE E. GREIDER, Lakewood, Ohio, assignor to National Carbon Co., Inc., a Corporation of New York. Filed July 2, 1928. Serial No. 290,047. 8 Claims. (Cl. 174—177.)

1. A light filter comprising a film of a polymerized vinyl compound and a reticulated member incorporated therein.

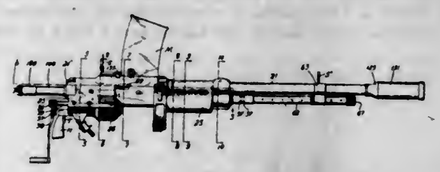
1,786,206. CABLE CONNECTION FOR BATTERIES. CHARLES P. HILL, Los Angeles, Calif. Filed Aug. 11, 1928. Serial No. 299,062. 2 Claims. (Cl. 173—259.)



1. In a battery terminal connector, wherein the battery is provided with a substantially triangular binding post, a block formed of soft metal having a complementary substantially triangular opening for the reception of the binding post, an annulus of comparatively hard metal enclosing the peripheral side of the block, means for frictionally coupling the post and block together, a threaded shank screwed through the annulus and into the block and extending laterally therefrom, and a cable coupling element threaded on the free end of the shank.

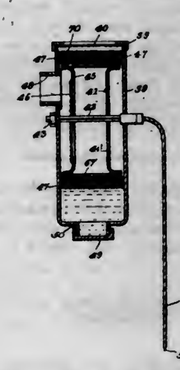
1,786,207. MACHINE GUN. ROBERT F. HUDSON, Richmond, Va., assignor, by mesne assignments, to Automatic Guns, Inc., a Corporation of Delaware. Filed Dec. 12, 1927. Serial No. 239,437. 13 Claims. (Cl. 89—2.)

1. A machine gun, including a receiver, a barrel, a breech block reciprocatingly mounted in the receiver, means for actuating the breech block, power-storing means for operating the actuating means, means actuated by the gases of explosion for setting the power-storing means, and a muzzle brake attached to the end of barrel and



acted upon by the emitting gases of explosion, whereby the combined action of the gases of explosion act upon the actuated means and the brake to reduce the recoil of the gun.

1,786,208. DUST SEPARATOR. ANDERS JORDAHL, New York, N. Y., assignor to American Air Filter Company, Inc., Louisville, Ky., a Corporation of Delaware. Original application filed Dec. 19, 1924, Serial No. 757,014. Divided and this application filed Nov. 8, 1927. Serial No. 231,952. 7 Claims. (Cl. 183—9.)



7. A dust separator for air and gases, comprising a casing adapted to contain a liquid in its lower portion and an inlet and an outlet for the air; rotatable filter elements mounted in said casing and adapted to pass through said liquid, said elements forming an air-tight joint with the end walls of said casing, and the gas being adapted to pass through the filter and the gas tight contact preventing leakage of gas around the filter; a ratchet and pawl mechanism for rotating said filter elements; and a screen for separating, from the gases which have passed through the filter, particles of the liquid carried in suspension with the gases.

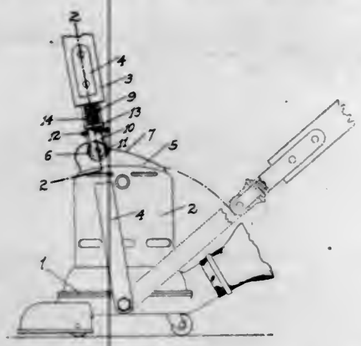
1,786,209. VEGETABLE ADHESIVE AND METHOD OF MAKING. IRVING F. LAUCKS and GLENN DAVIDSON, Seattle, Wash., assignors to I. F. Laucks, Inc., Seattle, Wash., a Corporation of Washington. Original application filed Oct. 29, 1923, Serial No. 671,381. Divided and this application filed Aug. 31, 1928. Serial No. 303,360. 12 Claims. (Cl. 87—17.)

1. An adhesive composition, which comprises the reaction products of a vegetable protein-containing meal, an alkaline medium and a small proportion of a zinc compound.

1,786,210. HANDLE LOCK FOR VACUUM SWEEPERS. DENNIS E. LESPERANCE, Oakland, Calif. Filed Mar. 1, 1930. Serial No. 432,423. 2 Claims. (Cl. 306—2.)

1. Catch means for a vacuum sweeper handle, said handle comprising a main bar, and fork straps depending

from the bar in straddling relation to and pivoted at their lower ends on the sweeper; said catch means including a cam mounted on the sweeper between the forks and below the lower end of the handlebar, and eccentric relative to the fork-pivots, said cam terminating at its end furthest from said pivots in a depression, a stem slidable in and depending from the lower end of the handle-bar, a head on the



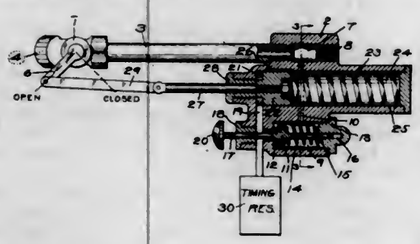
lower end of the stem, a bracket secured to the forks through which the head slidably but nonturnably projects, a roller carried by the head below the bracket to ride on the cam and seat in the depression, a spring on the stem between the head and handle-bar to force the stem and head downwardly, and means between the head and bracket limiting such movement of the head.

1,786,211. PRESSBOARD. GEORGE K. LEWIS, Chicago, Ill., assignor to Met-L-Wood Corporation, Chicago, Ill., a Corporation of Illinois. Filed Oct. 18, 1928. Serial No. 313,240. 10 Claims. (Cl. 11—1.)



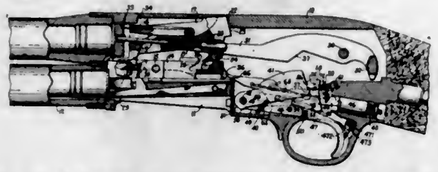
1. A press board made up of a plurality of laminations of fibrous material and metal, the metallic laminations being disposed to form the exterior surfaces of said board; and means including portions of said metallic laminations, providing a beaded construction along the marginal edge of said board.

1,786,212. ANGLE COCK. FREMONT P. LIVINGSTON, Denver, Colo., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed June 25, 1927. Serial No. 201,358. 7 Claims. (Cl. 303—86.)



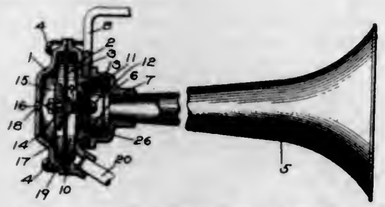
1. The combination with a valve controlling communication through a train pipe, of a piston operatively connected to said valve, a spring acting on said piston for normally operating said piston to hold said valve in its open position, and manually operable means for supplying fluid under pressure to said piston to shift said piston and said valve to its closed position.

1,786,213. FIREARM. CRAWFORD C. LOOMIS, Ilion, N. Y., assignor to Remington Arms Company, Inc., a Corporation of Delaware. Filed Sept. 15, 1926, Serial No. 135,582. Renewed May 16, 1930. 10 Claims. (Cl. 42—16.)



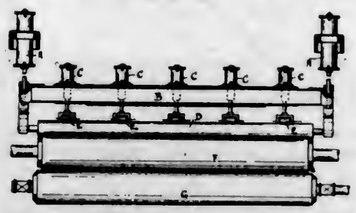
10. In a firearm, in combination, a hammer, a trigger provided with a forwardly extending nose adapted to engage said hammer, and a separate hammer controlling sear actuated by said trigger.

1,786,214. VACUUM-OPERATED HORN. JOSEPH C. MCCUNE, Edgewood, and STEPHEN JOHNSON, Jr., Pittsburgh, Pa., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 19, 1929. Serial No. 400,781. 7 Claims. (Cl. 116—138.)



1. A sound producer comprising a flexible diaphragm having a chamber at one side constantly open to the atmosphere, a partial vacuum source, manually operated means for connecting said source to said chamber, a horn, and a thin flexible valve operated by said diaphragm for controlling communication from said horn to said vacuum chamber.

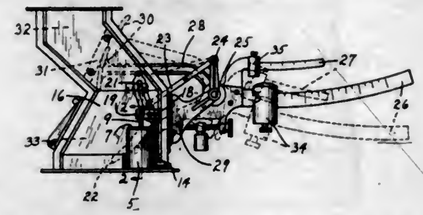
1,786,215. METHOD AND APPARATUS FOR MAKING SEAMLESS PIPES. ADOLFO MAZZA, Genoa, Italy, assignor, by mesne assignments, to Johns-Manville Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 12, 1924, Serial No. 749,556, and in Italy Sept. 10, 1923. 11 Claims. (Cl. 92—66.)



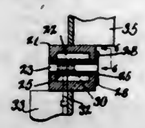
1. In a machine of the character described, the combination with a rotary pipe-forming cylinder, of a pressure cylinder cooperatively related thereto, means for supplying a plastic mixture to said pipe-forming cylinder, a hydraulic press for imparting pressure to said pressure-cylinder, and means under control of the pipe-forming operation for controlling the pressure of the fluid supplied to said hydraulic press.

1,786,216. COUNTERBALANCE STABILIZER. GLEN G. MERCHEN, Spokane, Wash. Filed Oct. 2, 1929. Serial No. 396,669. 3 Claims. (Cl. 249—2.)

1. The combination with a feed control device of a counterbalance stabilizer comprising a cylinder secured to the casing of the control device, a plunger slidably disposed within the cylinder, a plunger rod for the plunger slidably disposed through the top of the cylinder, an adjustable air valve for the cylinder, a horizontal arm fixed to the counterbalanced tray of the control device, and said plunger rod pivotally and slidably connected with said horizontal arm.

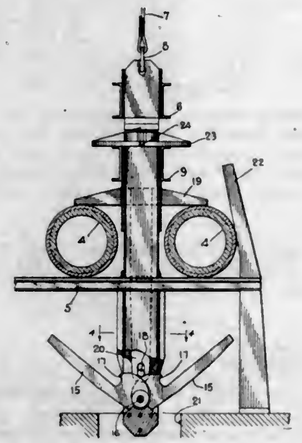


1,786,217. AEROPLANE. MÁTYÁS MORÁNSZKY, New York, N. Y. Filed Feb. 13, 1929. Serial No. 339,532. 1 Claim. (Cl. 170—162.)



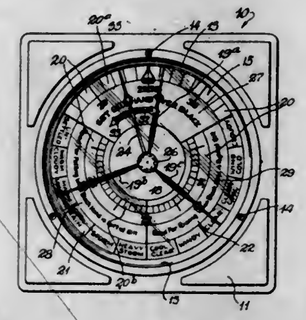
A propeller comprising a central hollow block, a plurality of blades, shafts on said blades rotatably mounted in said block, the axes of said shafts lying in the general plane of rotation of the propeller but being out of alignment, a cylindrical member adapted to be secured to the main propeller shaft rotatably mounted in said block and having worm threads on its outer side, worm wheels on said first named shafts in engagement with said worm threads, a flange on said cylindrical member on the outer side of said block, a plurality of teeth in said flange, a pawl pivotally mounted on said block and adapted to engage said teeth, and means for holding said pawl in engagement with said teeth to prevent rotation of said cylindrical member in said block.

1,786,218. FLASK-HANDLING DEVICE. STEPHEN D. MOXLEY, Birmingham, Ala., assignor to Sand Spun Patents Corporation, New York, N. Y., a Corporation of Delaware. Filed Oct. 7, 1927. Serial No. 224,583. 14 Claims. (Cl. 214—1.)



1. In mechanism of the class described, means for simultaneously lifting a plurality of flasks, said means pivotally mounted to rotate on a vertical axis, means to impart angular movement to said lifting means, and means to limit such movement to a selected arc, the angular movement imparting means including a cam for engaging the flasks supported by the supporting means.

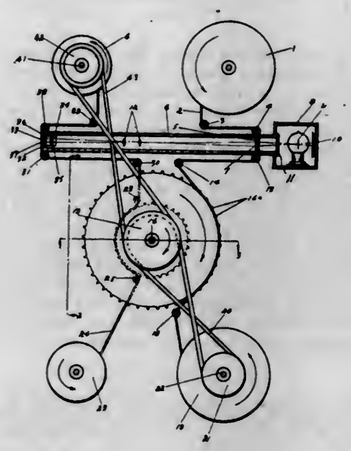
1,786,219. BAROMETER. HERMAN NEUWIRTH, Brooklyn, N. Y. Filed Feb. 4, 1930. Serial No. 425,744. 6 Claims. (Cl. 73—4.)



1. In an aneroid barometer, a dial having a calibrated scale and a plurality of sets of interpretive legends, and a three-handed pointer actuated by the barometer mechanism and having one hand for indicating the atmospheric pressure on the scale and hands co-operating respectively with each set of legends, as and for the purpose described and specified.

4. In an aneroid barometer, a dial having an atmospheric pressure scale, weather nomenclature relating to rising atmospheric pressure conditions, weather nomenclature relating to falling atmospheric pressure conditions, and a tri-hand pointer actuated by the barometer mechanism and comprising a hand for indicating a reading on said scale and hands for respectively indicating a reading on each of said nomenclatures.

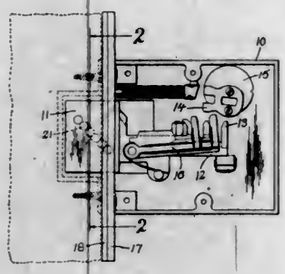
1,786,220. OPTICAL PRINTER. FREEMAN H. OWENS, New York, N. Y., assignor to Owens Development Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 12, 1926. Serial No. 147,977. 4 Claims. (Cl. 88—24.)



1. An optical printer comprising spaced parallel means for guiding strips of negative and positive film of dif-

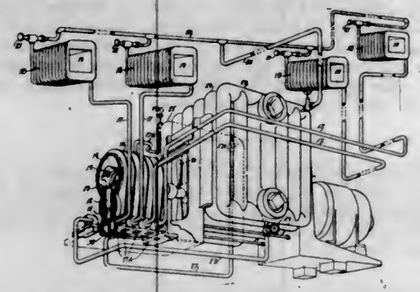
ferent widths in spaced parallel relation, optical means for projecting images directly from said negative film to said positive film, a single rotatable shaft, and sprockets of different sizes on said shaft for moving said film strips synchronously.

1,786,221. BURGLARPROOF KEY BOLT. CLAYTON L. PHILLIPS, Hamden, Conn., assignor to Sargent & Company, New Haven, Conn. Filed Nov. 8, 1928. Serial No. 317,953. 8 Claims. (Cl. 70—16.)



1. In a lock, a bolt head having a pocket in an intermediate part thereof and a plurality of hardened resisting elements arranged in a row in said pocket, said elements being overlapped with respect to a transverse plane through the bolt head.

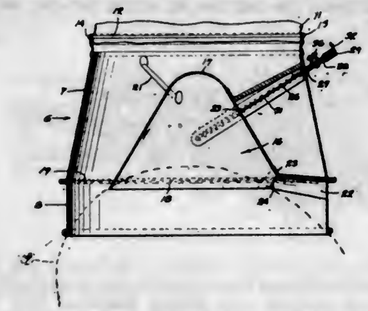
1,786,222. MULTIPLE REFRIGERATOR SYSTEM. THOMAS I. POTTER, Portland, Oreg. Filed Apr. 17, 1929. Serial No. 355,776. 2 Claims. (Cl. 62—115.)



1. In a refrigerating system the combination of a compressor comprising a plurality of pumping units, a condensing unit, a separating unit having an oil reservoir in the bottom thereof, an oil level balancing pipe connecting the bottom of said oil reservoir with the oil well of said compressor, a gas pressure balancing pipe between the upper portions of said compressor and condenser, a delivery pipe for warm compressed gas connecting the discharge side of all of said pumping units with the upper portion of the condenser, an expansion coil, a pipe for liquefied gas connecting said condenser with said expansion coil, a control valve interposed between said compressed gas pipe and the expansion coil, an evaporated gas pipe connecting the opposite end of said expansion coil to a separate pumping unit of said compressor, and means for dissipating heat from said condenser.

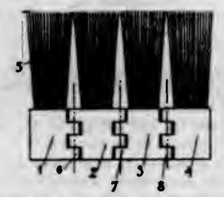
1,786,223. HAIR DRIER. ERNEST N. POTVIN, San Pedro, Calif. Filed July 15, 1929. Serial No. 378,470. 12 Claims. (Cl. 34—26.)

2. A device of the character described, comprising a tubular headpiece open at its lower end and adapted to be positioned upon a patient's head, means for coupling a source of fluid under pressure to said headpiece, a shield disposed within the headpiece to protect selected



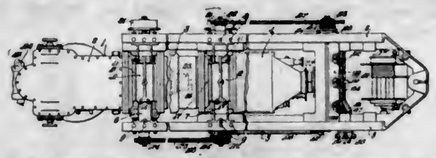
portions of the patient's head from said fluid, said shield being adjustable to permit varying the effective area of said shield.

1,786,224. SHAVING BRUSH. MICHEL CHARLES BLONDIN, Meudon, France, assignor, by mesne assignments, to Old Colony Distributing Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 3, 1929, Serial No. 390,169, and in France Oct. 15, 1928. 6 Claims. (Cl. 15—203.)



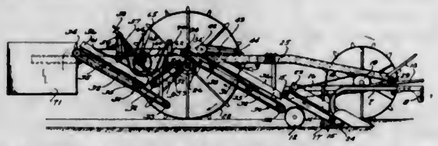
1. A sectional, folding shaving brush comprising a plurality of substantially flat holders each surrounding a substantially flat group of bristles, said holders being hinged together along adjacent edges thereof, each holder being substantially rectangular in cross-section.

1,786,225. MINING MACHINE. CORNELIUS G. BOUDETTE, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Oct. 31, 1927. Serial No. 230,004. 56 Claims. (Cl. 262—28.)



2. In a mining machine, a machine body, cutting mechanism carried thereby, a motor in said body, adjustable front and rear supports for said body, and mechanism driven by said motor for adjusting said supports including a differential operatively connected to each support.

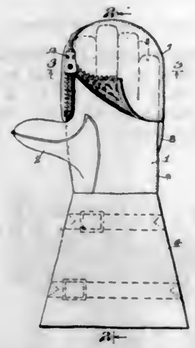
1,786,226. QUACK-GRASS DIGGER. EDGAR R. BRADLEY, Fargo, N. Dak. Filed Apr. 4, 1929. Serial No. 352,447. 10 Claims. (97—10.)



8. A machine of the class described having a plow, an elevator arranged to receive the earth from the plow,

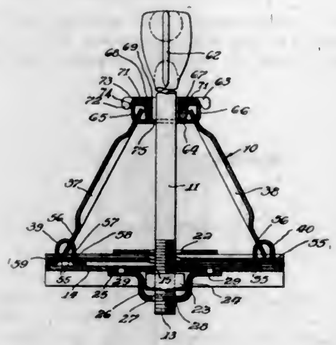
front and rear elevating conveyors, means for snaking the conveyors, a retarding device cooperating with the front conveyor, a feeder between the two conveyors and arranged to receive materials from the front conveyor and deliver the same on to the rear conveyor, means for producing a pounding and raking action on the materials on the feeder, and means for driving the elevator, conveyors and feeder.

1,786,227. GLOVE. ALPHONSE J. BRUGGEMAN, Milwaukee, Wis., assignor to Fried-Osterman Company, Milwaukee, Wis. Filed June 5, 1929. Serial No. 368,598. 2 Claims. (Cl. 2—159.)



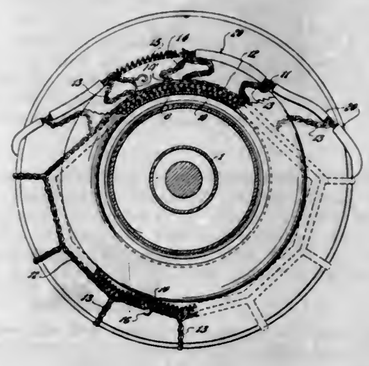
1. A glove including a body having finger stalls and a lateral thumb stall, a gauntlet connected to the body opposite the finger stalls, a pocket formed with a flexible tab having its end remote from the pocket connected to the connection between the body and gauntlet, said tab having a portion of one longitudinal edge secured to the body at one side thereof, said pocket having one side opened with means for detachably connecting the edges of the open side whereby the pocket can be positioned over the finger stalls or removed therefrom without withdrawing the fingers of the hand from the stalls, and adjustable means for retaining the pocket in a folded back position onto the gauntlet when not arranged over the finger stalls.

1,786,228. EARTH ANCHOR. ALBERT B. CHANCE, Centralia, Mo. Filed May 26, 1928. Serial No. 280,699. 14 Claims. (Cl. 189—82.)



1. In an expanding anchor the combination of a bottom plate with means carried by said plate for guiding an anchor fluke, a fluke slidably mounted upon said plate, a crosshead, and a link connecting said crosshead and fluke, said means comprising a housing extending over said fluke.

1,786,229. NONSKID TIRE CHAIN WHICH IS PERMANENTLY ATTACHED TO THE WHEELS. MATTHIAS W. CONROW, Springfield, Mass. Filed Apr. 30, 1929. Serial No. 359,228. 8 Claims. (Cl. 152—14.)



1. In combination, a device for the purpose described comprising an annular member having a throat opening; means for attaching the annular member to the inner side of a vehicle wheel, a non-skid tire chain designed for housing in the annular member, the outer side chain being divided into a plurality of sections, means for connecting the sections together when the said chain is in use, the inner side chain having a means for connecting the ends of this chain together, a coiled contractile spring located in the housing and attached to the inner side chain for automatically drawing the non-skid chain, as a whole, into the annular member, and means for preventing the entire length of the outer side chain from entering the housing.

1,786,230. CALENDAR. MELVIN H. DAVIS, Seattle, Wash. Filed Apr. 13, 1929. Serial No. 354,732. 3 Claims. (Cl. 40—119.)

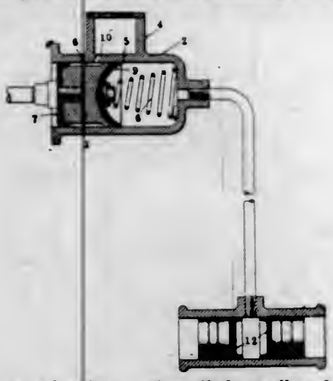


1. A calendar comprising a base provided with a score line substantially midway of its length, a series of monthly calendars arranged in book form secured to said base on one side of said score line, means for holding said calendar leaves in open position, said score line permitting of the base portion holding said calendars to be torn off and bent around said calendars to provide a closure for the calendar whereby it may be filed in book form for future reference.

1,786,231. HYDRAULIC BRAKE APPARATUS. BURNS DICK, St. Louis, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a Corporation of Delaware. Filed July 11, 1928. Serial No. 291,724. 3 Claims. (Cl. 60—54.6.)

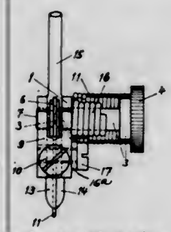
1. In apparatus of the class described, a liquid containing cylinder, a reciprocating piston operating therein, said

piston having a recess in its forward end, and a sealing cup of resilient material having its body portion in said recess and having a sealing rim extending in advance of



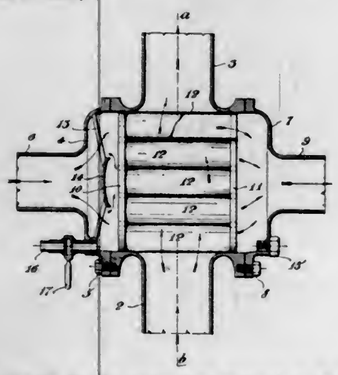
the piston and bearing on the cylinder wall and engaging the peripheral portion of the face of the forward end of the piston.

1,786,232. NEEDLE HOLDER FOR THE SOUND BOXES OF TALKING MACHINES. JAKOB EIGENHEER, Vogelsang, near Turgi, Switzerland. Filed Apr. 13, 1927, Serial No. 183,500, and in Germany May 17, 1926. 7 Claims. (Cl. 274—37.)



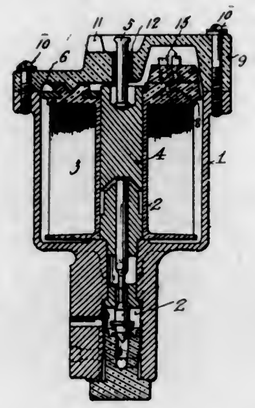
1. A needle holder for a stylus wire for the sound boxes of talking machines comprising in combination a casing; a stylus wire arranged on said casing, a hand operated feed roller rotatably mounted in said casing, a spring loaded disc for pressing the wire against the roller, said roller having a V-shaped groove to receive the wire, and said casing having an outlet groove for the wire.

1,786,233. HEATING APPARATUS FOR THE CARBURATED MIXTURE. GABRIEL FERRARA, Tres Arroyos, Argentina. Filed Aug. 23, 1929, Serial No. 388,019, and in Argentina Apr. 17, 1929. 2 Claims. (Cl. 257—236.)



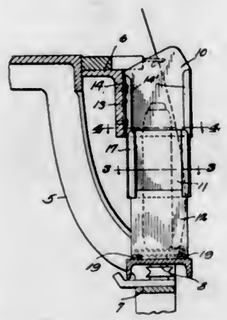
1. A heater for the carbureted mixture of internal combustion engines comprising a cylindrical casing, a pair of discs secured to said casing, a plurality of tubes extending parallel to the longitudinal axis of said casing and having their ends secured to said discs, two ports in said casing diametrically opposed to one another for the inlet and outlet of the combustion gases for heating said tubes, a cover fixed to one end of said casing having a tube shaped prolongation extending parallel to said tubes for the entry of the carburated mixture, arms secured to said cover, a plate supported by said arms disposed in front of said tube shaped prolongation against which the carburated mixture will strike and be diffused through said tubes, another cover fixed to the other end of said casing having a tube prolongation thereon through which the carburated mixture is conducted to the engine and means upon said casing through which said casing may be cleaned.

1,786,234. MAGNET-VALVE CONSTRUCTION. PARIS R. FORMAN, Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y., a Corporation of West Virginia. Filed Sept. 24, 1927. Serial No. 221,839. 5 Claims. (Cl. 137—139.)



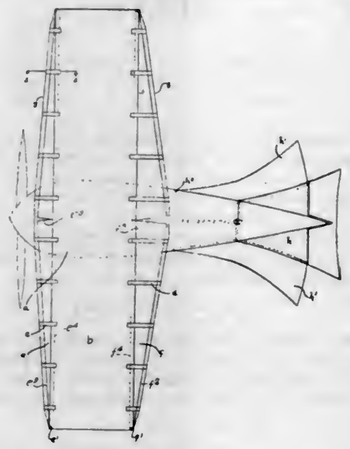
1. In a magnet valve construction the combination with a casing having a magnetically operated valve therein of a molded spool therein having a winding thereon and a molded cover for said casing having means thereon for cooperation with said spool for aligning said cover with said casing.

1,786,235. SEPARATOR FOR RING-SPINNING MACHINES. LEO GARIEPY, Woonsocket, R. I. Filed Apr. 30, 1930. Serial No. 448,664. 2 Claims. (Cl. 118—11.)



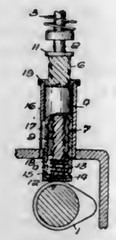
1. In a ring spinning frame, a stationary top rail, a vertically movable ring member, a spindle rail carrying spindles, and over which the ring rail moves, bobbins on the spindles, separators disposed on opposite sides of the bobbins, each of said separators comprising an upper section, an intermediate section and a lower section, said upper section and intermediate section having inwardly extended flanges at their sides providing guide rails for the adjacent lower section, means for restricting movement of one section with respect to its adjacent section, and means for securing the upper sections and lower sections to a spinning frame.

1,786,236. AIRCRAFT WING. JONATHAN P. GLASBY, Jr., Verona, N. J. Filed Nov. 17, 1925, Serial No. 69,570. Renewed June 28, 1929. 20 Claims. (Cl. 244—12.)



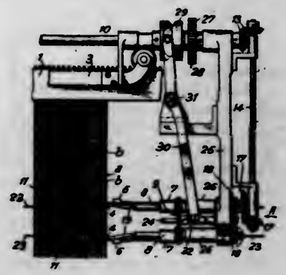
1. In a supporting surface for an aeroplane, a relatively stationary section, a forwardly disposed slidable section pivotally connected to the stationary section and rearwardly disposed slidable section pivotally connected to the stationary section, and means to move said sections with respect to the pivot to maintain the angle of incidence of the wing constant.

1,786,237. SELF-ADJUSTING TAPPET. REGINALD HAROLD HAMILTON, Christchurch, New Zealand. Filed Jan. 9, 1930, Serial No. 419,511, and in New Zealand Nov. 1, 1929. 7 Claims. (Cl. 123—90.)



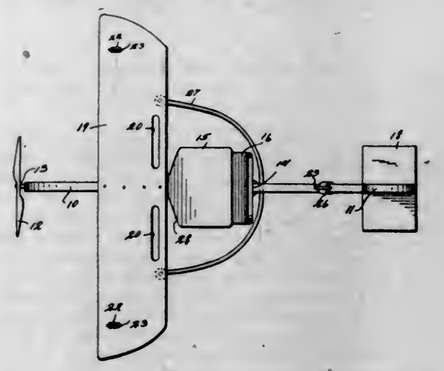
1. A tappet comprising a sleeve reciprocable longitudinally between a driving and a driven part, an internal thread in said sleeve, an intermediate member having one end actable upon said driven part, said member being formed with an external thread received in said thread in the sleeve, an axial bore in said intermediate member having an internal thread formed in the opposite direction to that of aforesaid threads, a third member having an external thread received in said threaded bore, all of said threads being of sufficient coarseness to permit of said members being screwed one within the other in response to endwise impulses, a head upon said third member actable upon by said driving part and adapted under pressure of the latter to contact with the adjacent end of said sleeve, thereby to retain said threaded parts rigid, stop-means limiting aforesaid movement of said sleeve towards the driving part, and means tending to unscrew said third member from said intermediate member thereby to carry said head clear of the sleeve to permit of said threaded members re-adjusting themselves to the requirements of said driving and driven parts when said sleeve is in contact with said limiting stop.

1,786,238. SEPARATING DEVICE FOR INTERCROSSING THREADS. WILLIBALD HAMMER, Uster, Switzerland, assignor to the Firm: Uster Factories for Apparatus and Machines, formerly Zellweger Ltd., Uster, Switzerland. Filed Mar. 27, 1929, Serial No. 350,324, and in Switzerland Mar. 28, 1928. 6 Claims. (Cl. 28—43.)



1. In a separating device for warp threads comprising, cylindrical separating spindles each having an eccentric part cooperating with a row of warp threads, a stop member on each of said separating spindles adapted to be longitudinally reciprocated on said eccentric part and means for controlling the movement of said stop members on said spindles.

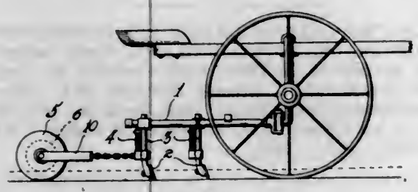
1,786,239. AIRPLANE SWING. FREDERICK C. HESTER, Jr., Leesburg, Fla. Filed Nov. 29, 1929. Serial No. 410,587. 2 Claims. (Cl. 155—60.)



1. A swing of the character described, comprising a body formed in the simultation of an airplane fuselage and having a propeller at its forward end, the body being cut away at its middle, a seat and back disposed at the middle of the body in this cut away portion, a plane mounted upon the body forward of the cut-away portion and extending laterally of the body, supporting members

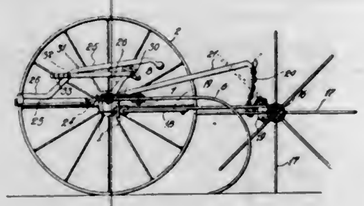
connected to the body and to spaced points upon the wing or plane, braces connecting the extremities of the wings with the body, said seat being cut away to permit the child to reach the braces with his feet, and a brace attached to the wing on each side of the seat and extending around back of the seat and through the body.

1,786,240. COTTON PACKER. ARTHUR HIGHTOWER, Frost, Tex. Filed Aug. 3, 1929. Serial No. 383,288. 1 Claim. (Cl. 97—7.)



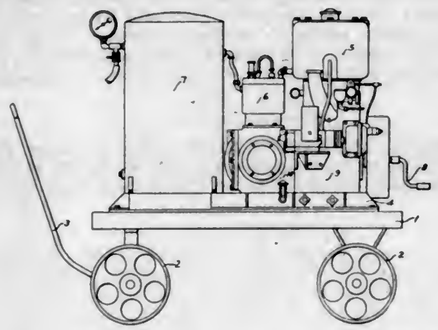
In combination with a cotton cultivator or the like having earth working implements arranged in groups adapted to engage the soil on opposite sides of a row of cotton, and a roller for repacking the loose earth after the passage of said earth working implements, said roller being of reduced diameter adjacent its center and tapering inwardly from adjacent its ends, and flexible chain members connecting each side of the roller to one of the earth working elements on the same side of the cotton row, whereby the roller will follow in the wake of the cultivator and conform to the crown of a row of soil containing cotton plants.

1,786,241. CROSS-ROW COTTON CHOPPER AND CULTIVATOR. ARTHUR HIGHTOWER, Frost, Tex. Filed Aug. 3, 1929. Serial No. 383,289. 2 Claims. (Cl. 97—23.)



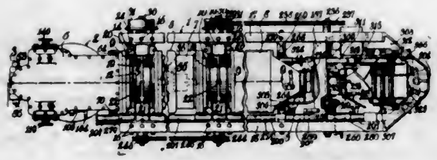
1. A cross-row cotton chopper and cultivator comprising an axle having a plurality of goose-neck blades rigidly attached to the axle; a channel bar disposed to the rear of connected to and parallel with said axle, said blades having a loose connection through said channel bar to afford a free vertical play of the blades; a walking beam carrying pointed rods, said beam disposed to the rear of the channel bar and having connection with said axle; said pointed rods normally projecting between said blades and adapted to pull and retrieve the vegetation dislodged by the blades from between the blades to retain the latter in clean cutting condition, said axle including a frame loosely connected to the front side thereof, a lever pivoted to the frame, a member rigidly connected to the axle and including notched jaws; an element connecting the lever to the member carrying the jaws; said lever when raised adapted to tilt the axle forwardly, thereby lifting the blades out of the soil; said element connecting the lever to the member carrying the jaws including spaced holes, the jaws and holes permitting adjustment of the lever and jaw member to set the blades at desired depth in the soil.

1,786,242. COMPRESSOR. EDWARD A. HOBART, Troy, Ohio, assignor to The Hobart Bros. Company, Troy, Ohio, a Corporation of Ohio. Filed Sept. 1, 1928. Serial No. 303,591. 5 Claims. (Cl. 230—56.)



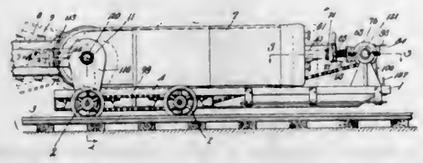
1. In combination, an internal combustion engine, a compressor, means of connecting the crank shaft of the engine to the crank shaft of the compressor, including a spiral bevel gear and pinion respectively mounted on the crank shafts of said compressor and engine, the crank shaft of the engine being located at right angles to the crank shaft of the compressor and a common support for the engine and compressor.

1,786,243. MINING MACHINE. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Feb. 2, 1925, Serial No. 6,477. Renewed Apr. 24, 1930. 153 Claims. (Cl. 262—28.)



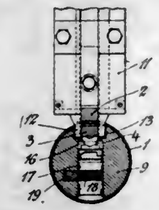
1. In a mining machine, in combination, supporting means, a motor having a casing rotatably mounted on said supporting means, cutting means carried by said motor casing, and means driven by said motor for elevating said casing relative to said supporting means.

1,786,244. MINING APPARATUS. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Sept. 30, 1926, Serial No. 138,660. Renewed Apr. 23, 1930. 52 Claims. (Cl. 262—29.)



1. In a mining apparatus, a wheeled truck frame, a cutter carrying frame supported thereon and movable relative thereto, kerf cutting mechanism including a pivoted cutter bar mounted on said frame and having a relatively fixed pivotal connection with said truck frame, and mechanism for moving said second frame relative to said truck frame to effect swinging movement of said cutter bar about its pivot relatively thereto.

1,786,245. METHOD AND MEANS FOR MANUFACTURING DRAINPIPES FROM VENEER. AMUND HÖNNINGSTAD and ARNE ARNESON, Forus, near Stavanger, and ALFRED NORHEIM, Hinna, near Stavanger, Norway. Filed Mar. 25, 1930, Serial No. 438,855, and in Norway Apr. 2, 1929. 4 Claims. (Cl. 144—259.)

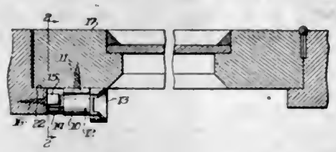


1. A method of making drain pipes from veneer, consisting in bending a sheet of veneer into a pipe, clamping the longitudinal edges of said sheet together between two laths, piercing said longitudinal edges on both sides of said laths, inserting through the holes thus pierced loops of wire and clamping the ends of said loops about said laths by intertwining their ends.

1,786,246. PROCESS FOR PURIFICATION OF HYDROCARBON OILS. EDWARD B. HUNN, Roselle, N. J., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed July 1, 1927. Serial No. 202,979. 8 Claims. (Cl. 196—33.)

2. The process of improving light hydrocarbon distillate, comprising treating the distillate with doctor solution, adding a low boiling alkyl disulfide, and separating the precipitate formed thereby from the distillate.

1,786,247. CASEMENT-WINDOW FASTENER. ALFRED J. JOHNSON, Chicago, Ill., assignor to Andrew Hoffman Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 20, 1928. Serial No. 248,026. 6 Claims. (Cl. 292—241.)



1. A casement window fastener, comprising a strike which is elongated in the direction of movement of the window and is adapted to be mounted on the frame surrounding the window, and a head which is adapted to be pivotally mounted on the window with its axis nearer one end of the strike than the other when the window is closed, said head having an axially offset cam portion which will cooperate with one end of the strike to draw the window closed and assume a dead-center position with respect to the strike and having another axially offset cam portion which will cooperate with the other end of the strike to pry the window open.

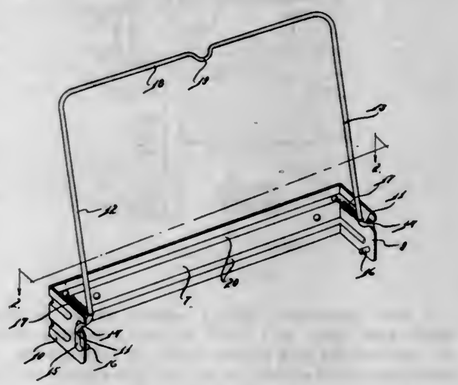
1,786,248. PRODUCTION OF NEUTRAL FATS AND OILS. OTTO JORDAN, Ludwigshafen-on-the-Rhine, and GEORG KRAEMER, Heidelberg, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Mar. 18, 1929, Serial No. 348,122, and in Germany Apr. 5, 1928. 9 Claims. (Cl. 87—12.)

1. The process for the production of neutral fats and oils which comprises acting with an alkylene oxide on a material selected from the group of fats and oils containing free acids.

1,786,249. CLEANING COMPOSITION. LESTER KIRSCHBRAUN, Leonia, N. J., assignor to Frank L. Belknap, Chicago, Ill. Filed Feb. 9, 1920, Serial No. 357,204. Renewed Nov. 21, 1927. 4 Claims. (Cl. 87—5.)

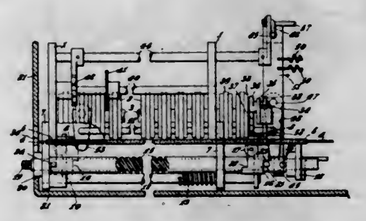
2. A homogenized cleaning composition consisting of a volatile hydrocarbon dispersed in a water vehicle with a water soluble saponaceous emulsifying agent to form a substantially permanent emulsion, the hydrocarbon forming the dispersed phase and the water and emulsifying agent the continuous phase, said composition capable of having a viscosity which will allow same to be extruded from a tube and possessing the characteristics of having been homogenized under a pressure.

1,786,250. PAPER HOLDER. HILARY G. KNOTH, Detroit, Mich. Filed Sept. 23, 1929. Serial No. 394,508. 4 Claims. (Cl. 24—66.)



1. A paper holder of the class described comprising a supporting member having a main body; angularly turned ends projected outwardly from said main body and extending in parallel spaced relation, each of said ends having notches formed in its outer edge adjacent the upper end thereof and each of said ends having an opening formed therein; a U shaped retaining member having the ends of its legs angularly turned to engage in the said notches, the ends of said angularly turned portions of said legs projecting through said openings and pivotally mounting said retaining member on said supporting member.

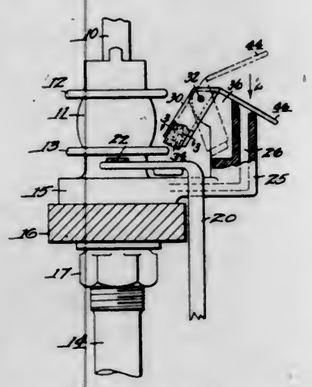
1,786,251. CONTROL DEVICE OF CURRENCY-STAMPING MACHINES HAVING COUNTING MECHANISM. ULRICH KOHLER, Bern, Switzerland, assignor to Hasler A.-G., vormals Telegraphenwerk-Statte Von G. Hasler, Bern, Switzerland, a Corporation of Switzerland. Filed June 7, 1929, Serial No. 369,183, and in Switzerland Aug. 9, 1928. 6 Claims. (Cl. 101—93.)



1. In a machine of the character described, the combination with a counter comprising rotatable number type discs, of a registration-card holder that is movable into two end positions in its own plane transverse to the axial

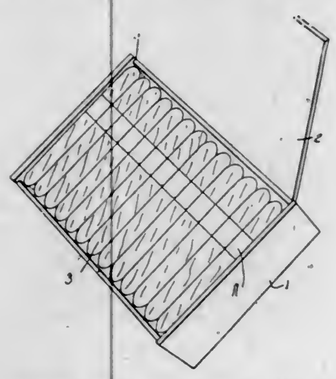
direction of the counter, a device for pressing the card against the discs in each of its two end positions at the commencement and end of a counting period, means for moving said pressing device along said card holder so that said card holder is automatically moved into the end positions of said pressing device whereby the numbers of the counter are printed over one another upon the card.

1,786,252. BEARING SUPPORT FOR SPINNING OR TWISTING SPINDLES. GEORGE H. MAGRATH, Whitinsville, Mass. Filed Oct. 2, 1929. Serial No. 396,812. 3 Claims. (Cl. 118—8.)



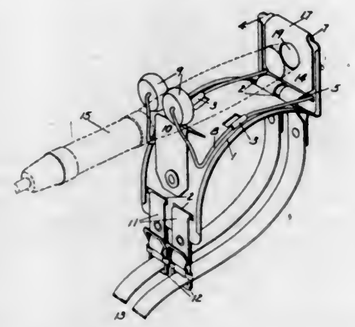
1. The combination with a spindle having a driving whirl with upper and lower flanges, a bearing support for said spindle and a knee brake for said spindle, of a retaining device pivoted on said bearing support to swing about a horizontal axis and extending downward and inward to a point above and adjacent an upper rotating surface of said spindle, said device having a friction member normally positioned to be engaged by said upper surface of said spindle whirl and to thereby limit upward movement of said spindle by said knee brake, said point of horizontal pivotal support being located substantially above said rotating surface and outside of but adjacent the periphery of said whirl.

1,786,253. DISPLAY DEVICE. AUGUST MAYER, New York, N. Y., assignor to Adartcraft, Inc., New York, N. Y., a Corporation of Delaware. Filed Nov. 18, 1929. Serial No. 407,949. 5 Claims. (Cl. 40—7.)



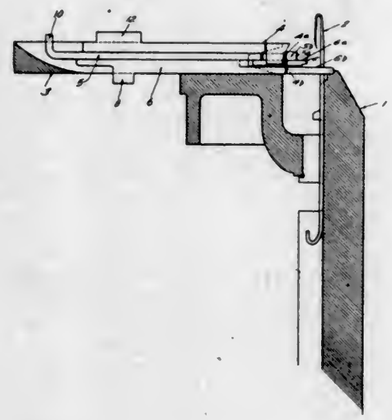
1. A display device comprising a cigar box, an embossing representing a row of cigars, a supporting member to which said embossing is secured, and flanges formed on said supporting member, said flanges being adapted to engage the bottom of the box to retain said embossing in the position normally occupied by the top row of cigars in the box.

1,786,254. FISH-ROD HOLDER. WILLIAM H. MEEHAN, Springfield, Mass. Filed Mar. 12, 1929. Serial No. 346,298. 8 Claims. (Cl. 248—37.)



1. The combination, in a fish-rod holder, of a plate adapted to be placed against some part of a person's body, and having an angularly arranged support which is perforated to receive a rod, rolls, a spring extending across the top and down the sides of said support, passing forwardly over said plate, extending therefrom upwardly to terminate in axial supports for said rolls, means to secure said spring to said first-named support, means to secure said spring to said plate, and means to fasten said plate to said body part.

1,786,255. KNITTING MACHINE. MAX C. MILLER, Cumberland, R. I. Filed Nov. 25, 1925. Serial No. 71,316. 17 Claims. (Cl. 66—102.)



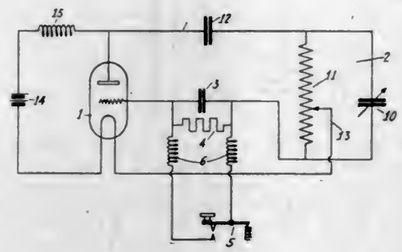
1. In a knitting machine the combination with the needles of independently movable webholders and sinkers arranged to cause the thread engaging surfaces of the sinkers and webholders to overlap at right angles to the direction of movement.

1,786,256. BUTTER COLORING. KARL J. MONRAD, Little Falls, N. Y., assignor to Chr. Hansen's Laboratory, Inc., Little Falls, N. Y., a Corporation of New York. Filed Apr. 13, 1927. Serial No. 183,622. 2 Claims. (Cl. 99—11.)

1. The method of lightening the color of an orange colored butter by mixing therewith a soluble green coloring matter which neutralizes the red component of the orange color.

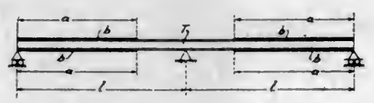
2. Butter containing an added oil-soluble green coloring matter which lightens the color of the butter by neutralizing the red component of the orange color of the butter to make the butter appear paler.

1,786,257. KEY-OPERATING ARRANGEMENT FOR SHORT-WAVE TUBE TRANSMITTERS. WILHELM MOSER and ERICH TOD, Berlin, Germany, assignors to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed Aug. 18, 1925, Serial No. 51,002, and in Germany Sept. 4, 1924. 2 Claims. (Cl. 250—19.)



1. In combination, a three-element electron discharge tube having a control electrode condenser to enable the control electrode to accumulate a bias; a leak across said condenser; means comprising a tuned circuit connected to the anode and control electrode of the tube for causing said tube to produce oscillations; and means for short-circuiting said leak consisting solely of a key and a pair of choke coils.

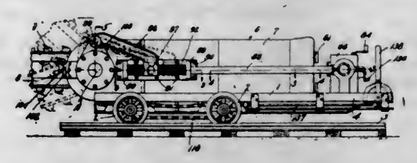
1,786,258. TURNTABLE. THEODORUS WILLEM MUNDT, Bilthoven, Netherlands. Filed Apr. 22, 1929, Serial No. 357,300, and in Germany June 16, 1927. 3 Claims. (Cl. 104—35.)



1. In a turntable, a pair of continuous girders of substantially uniform cross-section suitably interconnected, central and end supports, reinforcing plates for said girders extending from said end supports short of the center support in order to provide rigidity of the girders against bending forces for the entire length of said plates, while permitting bending between the inner ends of said plates.

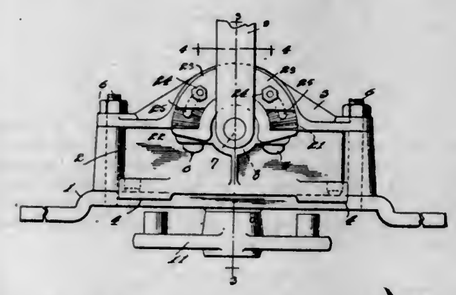
1,786,259. MINING APPARATUS. CHARLES F. OSGOOD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Oct. 9, 1926. Serial No. 140,579. 30 Claims. (Cl. 262—28.)

1. In a mining apparatus, a wheeled truck adapted to run along a mine trackway, cutting mechanism mounted thereon including a pivoted kerf cutter, a driving motor on said truck having its axis extending longitudinally of the apparatus, said cutting mechanism being driven from one end of said motor, constantly operative means connected to said kerf cutter and driven from the opposite end of said motor for swinging positively said kerf cutter about its pivot in opposite directions, said bar swinging means including a reciprocable element movable bodily in



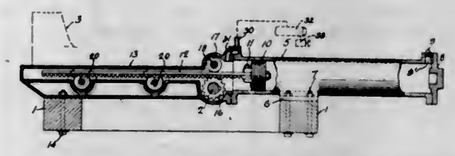
one direction relative to said motor to effect swinging of said kerf cutter in one direction and movable bodily in the opposite direction relative to said motor to effect swinging of said kerf cutter in the opposite direction, and mechanism for propelling the apparatus bodily along the mine trackway in opposite directions to effect opposite rectilinear movements of said kerf cutter at a cutting speed.

1,786,260. SWITCH STAND. CHARLES H. PARTINGTON, Cincinnati, Ohio. Filed Apr. 16, 1930. Serial No. 444,798. 9 Claims. (Cl. 246—404.)



1. A switch stand comprising target and switch actuating mechanism including concentric shafts, an operating lever rigidly connected to one of said shafts, and means adjustably connecting the operating lever to the other shaft.

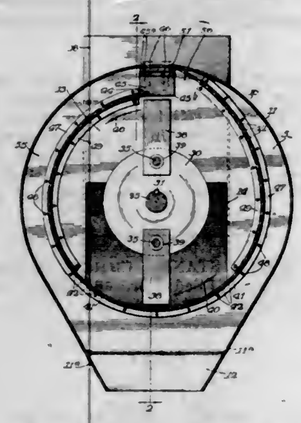
1,786,261. RECEDING MECHANISM. GEORGE M. PELTON, Milwaukee, Wis., assignor to The Filer & Stowell Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed May 28, 1928. Serial No. 281,170. 6 Claims. (Cl. 143—118.)



1. A receding mechanism for a knee of a sawmill carriage of the type wherein a set shaft is geared to the knee and turned in one direction for advancing the same and comprising a cylinder fixed to the sawmill carriage and having one end open, a piston operating in the cylinder, a rack fixed to the piston and projecting through the open end of the cylinder, a combined rack housing and pressure chamber connected to and communicating with the cylinder, and traversed by a portion of the set shaft, said housing extending and having a closed end beyond

the end of the rack, a pinion fixed to the portion of the set shaft located in the combined rack housing and pressure chamber and meshed with the rack to turn the set shaft reversely when the piston is moved under the influence of fluid pressure in the combined rack housing and pressure chamber and in the communicating end of the cylinder, and means for maintaining fluid pressure to the combined rack housing and pressure chamber.

1,786,262. GRINDER. CARL POPPELMAN, Racine, Wis. Filed May 27, 1927. Serial No. 194,597. 12 Claims. (Cl. 83—11.)

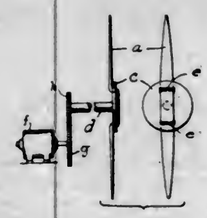


1. The combination in a grinder of rotary grinding means and a spiral wall surrounding said grinding means and provided with perforations throughout its annular extent, the ends of said spiral wall being spaced apart radially of the grinder, a break bar mounted between said spaced ends, and a casing forming a receiving chamber around said perforated wall.

1,786,263. HARDENING PARAFFIN, WAXES, AND THE LIKE. WILHELM PUNGS, Ludwigshafen-on-the-Rhine, and MICHAEL JAHRSTORFER, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Dec. 22, 1927, Serial No. 242,010, and in Germany Dec. 23, 1926. 8 Claims. (Cl. 87—19.)

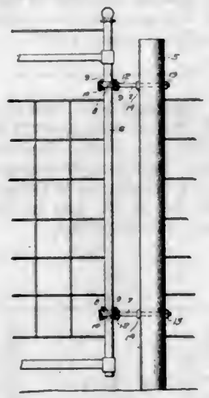
1. A composition of matter comprising a material having physical properties similar to those of beeswax, and up to 10 per cent by weight thereof of oxidation-bleached Montan wax.

1,786,264. ENERGY-TRANSMISSION MEANS. SYLVANUS A. REED, New York, N. Y. Filed Oct. 14, 1927. Serial No. 226,232. 8 Claims. (Cl. 181—0.5.)



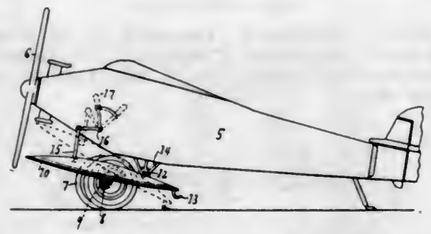
5. In combination, a power operated non-interrupting transmitter for producing, in a material medium, compression waves of super-audition pitch; and a distantly removed receiving apparatus capable of doing external mechanical work, said receiving apparatus being mechanically responsive to said wave train and receiving therefrom the energy necessary to the mechanical working thereof.

1,786,265. GATE BOLT. GEORGE J. ROSCH, Marcus, Iowa. Filed Mar. 14, 1929. Serial No. 347,052. 2 Claims. (Cl. 16—171.)



1. A device of the character described, comprising a threaded shank of a length to traverse a gate post, which shank terminates in a curved head and a loose part pivoted to said head which, complementally with said head, provides means adapted to embrace the vertical frame member of the gate, means for holding said loose part in embracing position and a gate carried part riding upon the upper face of said device in the movement of the gate and serving to hold the gate against downward movement therethrough.

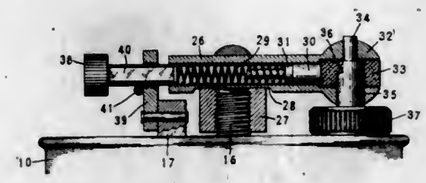
1,786,266. STABILIZING DEVICE FOR AEROPLANES. EDWARD G. SCHLEICHER, Mount Vernon, N. Y. Filed Sept. 18, 1929. Serial No. 393,396. 2 Claims. (Cl. 244—29.)



1. In a stabilizing device for aeroplanes the combination with a wing arranged under the forward portion of a fuselage, a landing gear having an axle connected to the wing, of means secured behind the axle for swingingly mounting the wing, the weight of the landing gear gravitating the forward portion of the wing downward, and devices arranged at the forward portion of the wing for limiting the upward and downward oscillation of the wing.

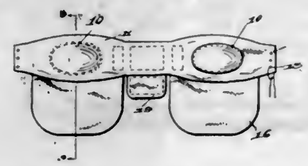
1,786,267. LIGHTER. SAMUEL SEGAL, New York, N. Y., assignor to Segal Automatic Tweezer Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 27, 1927. Serial No. 222,280. 11 Claims. (Cl. 67—7.1.)

11. A lighter including a case formed with a wick opening, spark producing means mounted on said case in operative relationship to said opening, an adjusting screw forming a part of said latter means, a snuffer cap for said wick opening, a lever pivotally mounting said cap upon



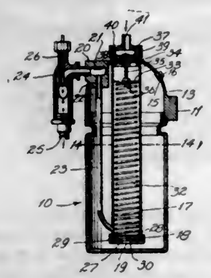
said case, and means actuated by said lever and shiftable to a position in engagement with said adjusting screw to prevent movement of the latter when said snuffer cap is in opening-covering position.

1,786,268. BODY-PROTECTING SHIELD. CARL GREY SNAVELY, Lewisburg, Pa. Filed June 20, 1929. Serial No. 372,465. 6 Claims. (Cl. 2—2.)



1. A body protective apparel comprising a hip belt of flexible cushion material, rigid hollow spheroidal sector shaped guard members positioned on said belt so as to cover the hip portions of the body, means for securing the guard members to the belt, the base edges of said members being curved to engage the cushion material and conform to the shape of the body at the hips and means for securing the belt to the body.

1,786,269. OVERHEAD GASOLINE-ENGINE OILER. AARON R. SOLOMON, St. Louis, Mo., assignor to Modern Auto Repair and Reconstructing Company, St. Louis, Mo., a Corporation of Missouri. Filed Mar. 20, 1929. Serial No. 348,372. 2 Claims. (Cl. 123—196.)

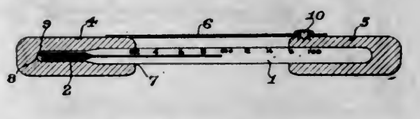


1. In a device of the character described an oil reservoir, having means of fluid communication therefrom to the intake manifold of a gasoline engine, a cylinder secured in said oil reservoir, a piston positioned in said cylinder, one end of said cylinder behind said piston being in fluid communication with the oil pressure line of a gasoline engine, a valve positioned at the bottom of said cylinder, which closes the bottom of said cylinder from fluid communication with said oil reservoir in the downward stroke of said piston and forces the oil from said cylinder to a pipe, which is in fluid communication with the intake manifold of a gasoline engine.

1,786,270. WATER-RESISTANT AND FIRE-RESISTANT FIBROUS PRODUCT AND METHOD OF MAKING SAME. HUGH MCCURDY SPENCER, Lockport, N. Y., assignor to The Upson Company, Lockport, N. Y., a Corporation of New York. Filed May 4, 1927. Serial No. 190,642. 5 Claims. (Cl. 92—21.)

1. The process of making a fire-resistant and water-resistant fibrous product which comprises mixing ammonium phosphate and paraffin coated comminuted material with fibers in fluid suspension.

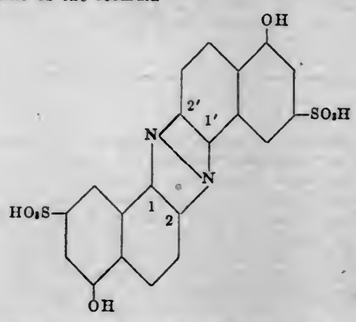
1,786,271. CASE FOR CLINICAL THERMOMETERS. HAROLD E. STONEBRAKER, Rochester, N. Y. Filed Sept. 16, 1929. Serial No. 392,930. 5 Claims. (Cl. 206—16.5.)



4. A case for a breakable thermometer comprising two parts constructed of resilient material and adapted to be frictionally arranged upon and entirely supported by the opposite ends of the thermometer, one of said parts having a bore which for a portion of its length is of approximately the diameter of the body portion of the thermometer and for a portion of its length is of approximately the diameter of the bulb of the thermometer and closely embracing the outer surface of the thermometer end throughout a substantial portion of the length of the thermometer, the body wall of said part being of sufficient thickness to afford such a degree of resiliency as to prevent breakage of the thermometer when falling on a hard surface.

1,786,272. AZO DYESTUFFS CONTAINING METALS AND PROCESS OF MAKING SAME. FRITZ STRAUB and WALTER ANDERAU, Basel, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Filed Aug. 26, 1929, Serial No. 388,614, and in Switzerland Sept. 8, 1928. 15 Claims. (Cl. 260—12.)

1. Process for the production of metalliferous azo-dyestuffs, consisting in combining with diazo-compounds containing lake-forming groups in ortho-position to the diazo-group the 5 : 5'-dihydroxy-7 : 7'-disulfo-1 : 2' : 1' : 2-diaphthazine of the formula

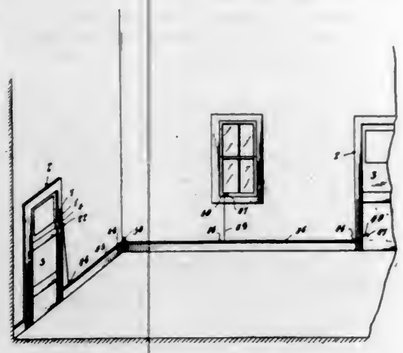


and treating the products thus obtained with an agent which yields metal capable of forming lakes.

1,786,273. BURGLAR ALARM. ANDREW L. TURNER, Depew, Okla. Filed Aug. 9, 1930. Serial No. 474,197. 8 Claims. (Cl. 116—81.)

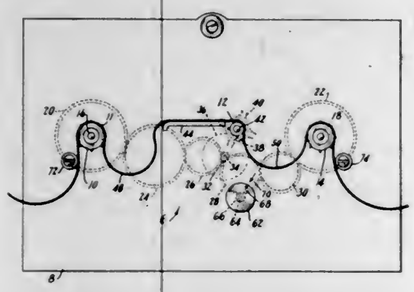
1. In a burglar alarm system of the character described, a signal unit designed to be mounted adjacent a door, a shiftable element forming a part of said unit adapted to be held in a predetermined position by the door when the

latter is closed and to shift for the operation of the signal unit upon the opening of the door, a locking element designed to control the operation of said unit independently of said shiftable element, a cable connected to



said locking element and designed to be shiftably supported in proximity to door and window openings, and means for connecting said cable with the closure elements for said door and window openings.

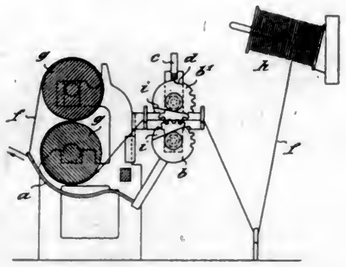
1,786,274. SYNCHRONOUS MOTION-PICTURE AND SOUND REPRODUCTION. FERDINAND VON MADALER, Hampton Bays, N. Y., assignor, by mesne assignments, to National Vision-Tone Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 6, 1928, Serial No. 324,073. Renewed May 17, 1930. 3 Claims. (Cl. 88—16.2.)



3. In combination, sound and light record apparatus, a plurality of adjustable members for engaging said light record, light and sound records having indicia thereon to determine initial setting positions thereof, said records being set in initial position before said apparatus is operated, and means for simultaneously changing the positions of said members to position them in a predetermined relation for cooperation with said light record indicia when positioning the light record on the apparatus.

1,786,275. DEVICE FOR STOPPING DELIVERY IN SPINNING AND TWISTING MACHINES ON THE BREAKING OF THE THREAD. JOHANNES VON TRÖMBACH, Dusseldorf-Oberkassel, Germany. Filed June 20, 1929, Serial No. 372,395, and in Germany June 22, 1928. 8 Claims. (Cl. 118—7.)

2. In a trap motion, thread gripping devices comprising intergeared cylindrical members, a portion of the periphery of each member being cut away to cause the cut away portions to define an open channel between the members for the passage of the thread when the members are in a predetermined position, and means for compelling relative



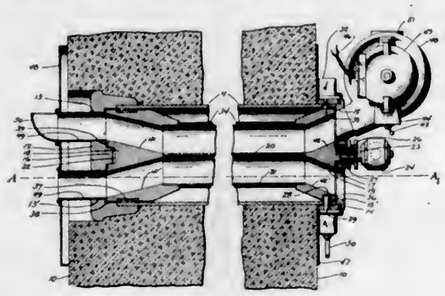
movement of the members on the breakage of the thread to present the peripheral surfaces of the members in gripping contact with the thread.

1,786,276. DROP CORD. CARL D. WAYNE, St. Paul, Minn. Filed Jan. 11, 1929. Serial No. 331,812. 1 Claim. (Cl. 173—264.)



A flexible cable comprising a helically arranged conducting element, a central flexible core and a fabric cord element within said core, and an outer coating of elastic non-conductive material about said conductor element.

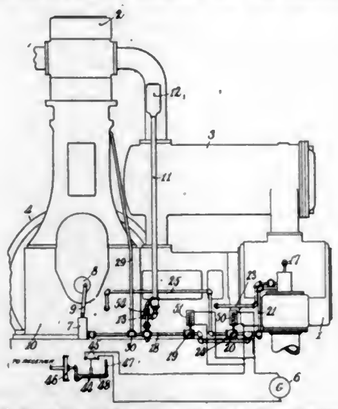
1,786,277. VAULT VENTILATOR. ROSS R. WEST, San Mateo, Calif. Filed Nov. 14, 1927, Serial No. 232,956. Renewed July 1, 1930. 5 Claims. (Cl. 109—1.)



1. The combination with a vault wall, of a rotor element having a plurality of openings therethrough, and means at the ends of said openings adapted to support said rotor in said wall and close said openings when the rotor is in one position.

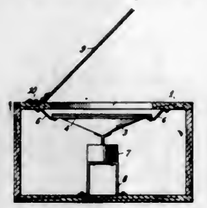
1,786,278. COMPRESSOR SYSTEM. LEONARD WILSON, Salt Lake City, Utah, assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Oct. 12, 1927, Serial No. 225,789. Renewed Feb. 27, 1930. 27 Claims. (Cl. 230—4.)

1. In combination, a pump having a cylinder, means operable by pressure variations for loading said pump cylinder, means other than said cylinder for producing pressure variations for effecting operation of said loading means, and means responsive to pressure variations produced by operation of said pump for controlling the operation of said loading means by the first mentioned pres-



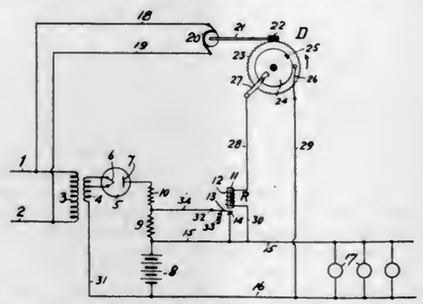
sure variations to effect loading and unloading in response to said second mentioned pressure variations during continuous running of said pump.

1,786,279. REFLECTOR. IRVING WOLFF, New York, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware. Filed Mar. 31, 1927. Serial No. 179,744. 9 Claims. (Cl. 181—31.)



1. In combination a sound producing device of the cone type and reflecting means comprising a member having an elliptical cross section associated therewith for modifying the direction of the sound waves emitted therefrom.

1,786,280. MEANS FOR CONTROLLING THE CHARGE OF A STORAGE BATTERY. JOSEPH LESTER WOODBRIDGE, Philadelphia, Pa. Filed Dec. 31, 1927. Serial No. 243,794. 5 Claims. (Cl. 171—314.)



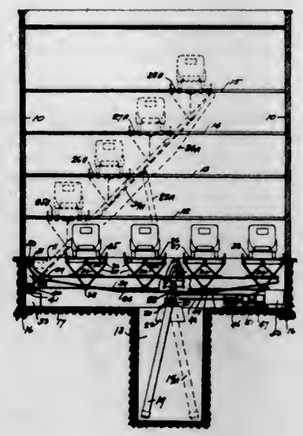
1. In combination, a storage battery and its load circuit, a charging source for the battery, means for transmitting current from the source to the battery selectively at either of two different rates, means responsive to the battery voltage and adapted to reduce the rate from the higher to the lower value, and other means for restoring the rate to the higher value at regular time intervals.

1,786,281. RUBBERLIKE COMPOSITION AND PROCESS OF MAKING SAME. FREDERICK C. ZOBEL, Brooklyn, N. Y. Filed Jan. 23, 1926. Serial No. 83,388. 7 Claims. (Cl. 106—23.)

1. As a new article of manufacturing, a composition having substantially the physical properties of soft rubber and obtainable by the interaction of gum copal, hard wood creosote oil and petroleum naphtha.

5. The process of forming a composition having substantially the physical properties of rubber, which comprises mixing gum copal and hard wood creosote oil, heating the mixture until a clear solution is formed, and causing precipitation by the addition of petroleum naphtha.

1,786,282. AUTOMOBILE HANDLING DEVICE. ELLIS B. ANDERSON, Memphis, Tenn. Filed Aug. 31, 1929. Serial No. 389,640. 10 Claims. (Cl. 214—16.1.)

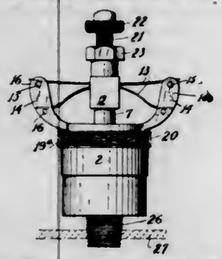


1. An elevator, for a building having a main floor and a plurality of elevated floors, comprising a pair of parallel beams spaced apart, and normally disposed parallel to said main floor level, pivotal mountings, one for each of said beams, positioned in alignment at right angles to said beams at one end thereof, supports extending rigidly upward from each of said beams, there being one support on each beam for each of said elevated floors, said supports being spaced from said pivotal mountings at distances proportional to the distance of said floors above said mountings, platforms pivotally mounted, each on a transversely aligned pair of supports, members secured to and extending rigidly downward from each of said platforms adjacent said beams, pivotal strut mountings disposed below said beam mountings, struts disposed parallel with said beams and carried by said strut mountings, pins connecting said rigid members to said struts, a hydraulic cylinder disposed below said beams and pivotally supported, and a ram in said cylinder, hingedly connected at its upper end to said beams intermediate their ends, whereby said beams may be pushed upward to raise said platforms, and said platforms will be maintained in level position.

1,786,283. AUTOMATIC AIR-INLET VALVE FOR INTERNAL-COMBUSTION ENGINES. JAMES LIPTROT ARDERN, East Kew, Melbourne, Victoria, Australia. Filed Jan. 4, 1927, Serial No. 158,931, and in Australia Apr. 15, 1926. 7 Claims. (Cl. 251—145.)

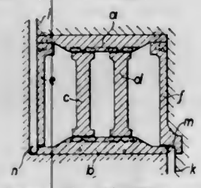
1. A device for the purpose indicated consisting in the combination of a valve casing having means of con-

nection to the induction pipe of an internal combustion engine and a passage leading from the interior of said casing through said connecting means, a valve mounted within said casing and adapted to control the admission of air through said passage to the engine, a valve stem



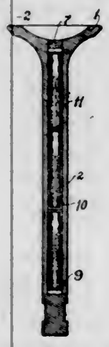
passing slidably through the wall of said casing, a plate spring supported externally of the casing and acting upon said valve stem to normally retain the valve in closed position against the action of the engine suction, and screw adjusting means acting upon said plate spring to vary the pressure thereof upon said valve.

1,786,284. CONSTRUCTION OF THE EXPANSION JOINT OF REENFORCED CONCRETE STRUCTURES. BRUNO BAUER, Vienna, Austria. Filed Dec. 27, 1928, Serial No. 328,646, and in Austria Jan. 3, 1928. 1 Claim. (Cl. 72—106.)



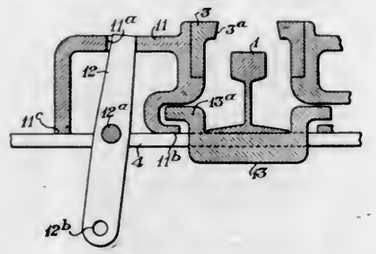
A bearing between the abutting overlapping ends of beams forming the expansion joint of reenforced concrete structures comprising a casing closed at all sides and including spaced top and bottom walls interposed between the overlapping ends of said joint and laterally removable side walls, and upright pillars forming the bearings arranged in pendulous position within said casing.

1,786,285. COOLING-CAPSULE-FILLED VALVE. RICHARD E. BISSELL, deceased, Cleveland, Ohio, by Genevieve Bissell, administratrix, Lansing, Mich., assignor to Thompson Products, Incorporated, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 20, 1930. Serial No. 422,208. 8 Claims. (Cl. 123—177.)



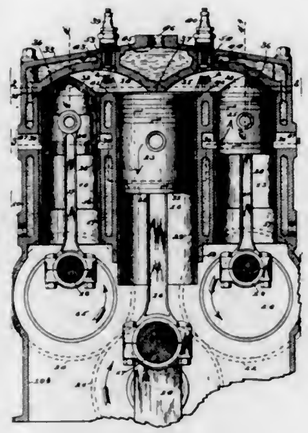
1. A valve comprising a hollow stem, a capsule in said stem and a cooling agent that is fluid within the working temperature range of the valve within said capsule.

1,786,286. RAILWAY-CAR RETARDER. HERBERT L. BONE, Swissvale, Pa., assignor to The Union Swith & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Original application filed June 20, 1928, Serial No. 287,008. Divided and this application filed Apr. 28, 1930. Serial No. 447,852. 5 Claims. (Cl. 188—62.)



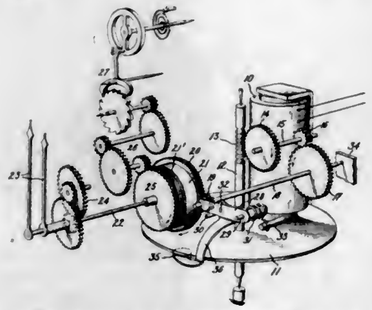
1. A railway car retarder comprising a brake beam located beside a track rail and movable toward and away from the rail, means for permitting said beam to swing so that its wheel engaging surface moves upwardly from its normal position when engaged by a car wheel, and means for limiting such swinging movement of the beam.

1,786,287. INTERNAL-COMBUSTION ENGINE. EVERETT R. BURTNETT, Santa Rosa, Calif. Filed July 1, 1929. Serial No. 375,069. 6 Claims. (Cl. 123—53.)



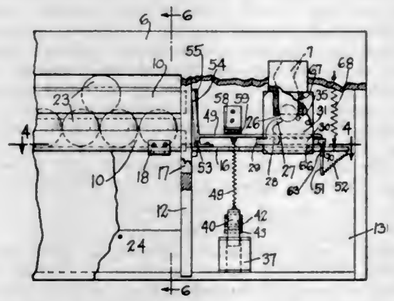
1. In an internal combustion engine, a three cylinder combustion unit, comprising in combination, one cylinder having exhaust ports and two cylinders having inlet ports, the three cylinders being arranged with their head ends terminating in a common plane, a detachable head arranged with the three cylinders, pistons adapted to control the ports of the respective cylinders being arranged for reciprocatory movement in all the cylinders, the cylinder having exhaust ports being arranged adjacent and between the two cylinders having the inlet ports, the pistons of the two cylinders having the inlet ports being formed with dome shaped heads, the piston of the cylinder having the exhaust ports being formed with a flat head, the three cylinders being formed with a common integral head face, all the pistons being adapted to reciprocate with their headward stroke movement relatively terminating with the peripheries of all the pistons approximately occupying a common plane substantially coincident with the said integral head face of the three cylinders, the said detachable head being formed with its underside face adapted to engage the said integral head face of the three cylinders, two compression clearance chambers formed in the underside face of the said head member, the said two clearance chambers being relatively arranged so as they respectively connect the chambers of the two cylinders having inlet ports with the chamber of the cylinder having exhaust ports, each of the said two clearance chambers connecting the chamber of one inlet port cylinder with the chamber of the cylinder having exhaust ports and each of the said two clearance chambers being formed with their inner walls formed of a radius conforming with the radius of the dome head of the piston of the respective cylinder having the inlet ports to which the respective clearance chamber is adapted.

1,786,288. ELECTRICALLY-WOUND CLOCK. ARTHUR B. CAMPBELL, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed Feb. 28, 1929. Serial No. 343,366. 7 Claims. (Cl. 185—40.)



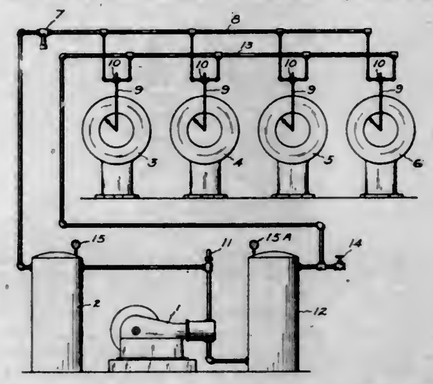
1. In a mechanical power transmission system, a pair of rotatably mounted intermeshed spur gear wheels through which power is transmitted, one of said gears being mounted for limited bodily movement with respect to the other in substantially a tangential direction, resilient means for opposing such bodily movement occasioned by the transmission of power between said wheels, and means controlled by such bodily movement for maintaining the torque between said gears substantially constant.

1,786,289. BALL-BENDING MACHINE. JOHN E. CRADDOCK, Brooklyn, N. Y. Filed Nov. 29, 1929. Serial No. 410,455. 4 Claims. (Cl. 194—7.)



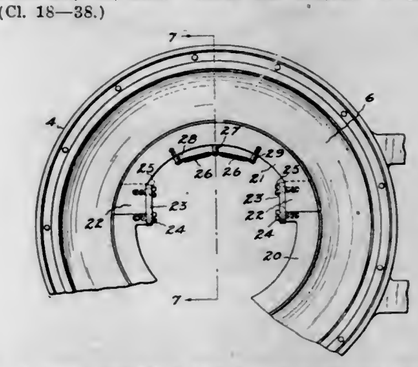
3. A ball vending machine comprising a ball shelf, means for sustaining the shelf in ball supporting position including a latch hinged to said shelf, and a detent strip engageable by said latch, a coin control mechanism including a solenoid for disengaging said latch and strip to drop the shelf to non-supporting position, and a switch engageable by the solenoid in its latch disengaging movement to complete a circuit.

1,786,290. METHOD OF VULCANIZING HOLLOW RUBBER ARTICLES. HAROLD A. DENMIRE, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed May 12, 1927. Serial No. 190,757. 4 Claims. (Cl. 18—53.)



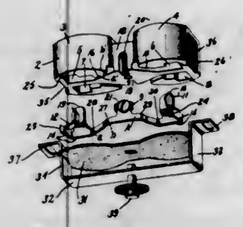
4. In the vulcanization of hollow rubber articles, the herein described method of producing and supplying to the interior of such articles during vulcanization, a substantiallly inert gaseous medium, which comprises collecting and confining a body of air, introducing a portion of the air under pressure into a hollow article during the vulcanization thereof, evacuating the article after vulcanization and returning the air together with gaseous products of vulcanization to the confined body of air, and repeatedly using the gaseous mixture so produced for the inflation of articles subsequently vulcanized.

1,786,291. TIRE-VULCANIZING MOLD. HAROLD A. DENMIRE, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed May 17, 1928. Serial No. 278,446. 8 Claims. (Cl. 18—38.)



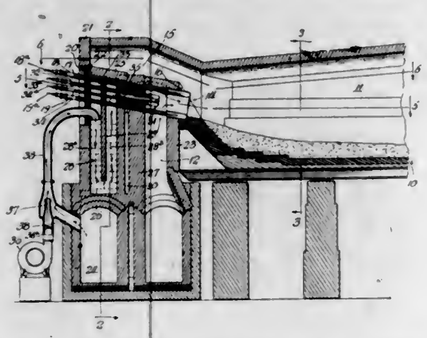
8. A mold comprising separable side sections adapted to abut face to face and having annular recesses which conform to the side and tread portions of a tire casing, each mold section having a resilient contractile transversely divided ring along the inner margin of its annular recess, said rings abutting edge to edge when the mold is closed and having abutting diagonally disposed ends, each ring having an end portion movable outwardly from the face of the mold section upon which it is mounted to permit the ring to contract, the pressure on said end portions upon closing the mold forcing the same into alinement with the adjacent end of the ring and the wedging engagement between the diagonally disposed ends of each ring causing said ring to be expanded as the mold is closed, each ring being resilient and biased toward its contracted position whereby the ring automatically contracts upon opening the mold.

1,786,292. ELECTRIC SOCKET. FRANK C. DE REAMER, Bridgeport, Conn., assignor to General Electric Company, a Corporation of New York. Filed July 18, 1927. Serial No. 206,458. 8 Claims. (Cl. 173—330.)



1. In a socket a conducting plate folded into the general form of the letter W with the ends of the outer limbs turned out, the two lower heels of the folded plate being flattened, the central section of the folded plate being bent to form a flattened portion offset with respect to the other flattened portions and a contact spring projecting laterally with respect to the plate from each of said lower heels and an insulating body formed and slotted to receive the folded plate sidewise, and a pair of cavities in said body, one opposite each of said springs, each spring projecting into its corresponding cavity, and openings in said body, one leading to each of said cavities whereby connections may be established with said springs by means of a plug element, the mid portion of said plate being located on the outside of said body and having a terminal for a wire connection thereto.

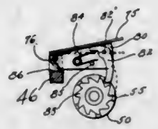
1,786,293. PORT CONSTRUCTION AND GAS BURNER FOR OPEN HEARTH FURNACES. GEORGE F. DOWNS and HERBERT F. MILLER, Jr., Buffalo, N. Y. Filed Nov. 4, 1920. Serial No. 421,755. 27 Claims. (Cl. 263—15.)



1. In a furnace of the kind described, in combination with the furnace walls defining gas and air uptakes, gas and air ports, and air and gas regenerators, means for conducting a part of the air from the air regenerator to the interior of the body of gas in advance of the issue of the gas from the gas port, and means for compressing said air prior to its introduction into the interior of said gas body.

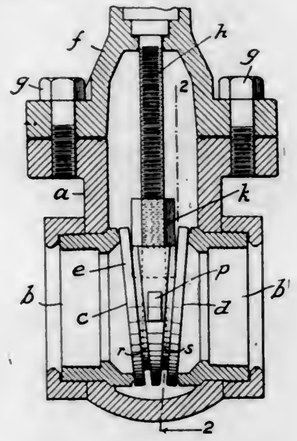
1,786,294. SWITCH DEVICE. NELSON C. DURAND, East Orange, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a Corporation of New Jersey. Original application Filed June 22, 1925, Serial No. 38,613, now Patent No. 1,733,951. Divided and this application filed Sept. 27, 1929. Serial No. 395,535. 4 Claims. (Cl. 200—8.)

1. In a switch device comprising a member mounted for rotary movement, and means for turning said member about its axis comprising a ratchet secured to said member and a movable mounted member having a pawl co operating with said ratchet, said movably mounted me



ber having means which when such member is moved to cause the pawl to turn the ratchet acts to limit, the turning movement of the latter, substantially as described.

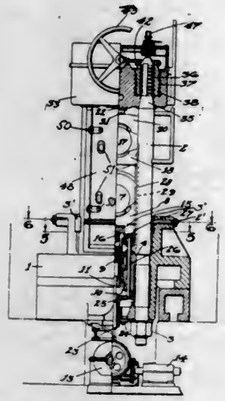
1,786,295. HIGH-DUTY VALVE STRUCTURE. GUNNAR ERICSSON, Philadelphia, Pa. Filed Dec. 30, 1927. Serial No. 243,636. 4 Claims. (Cl. 251—62.)



1. A valve structure comprising a valve casing provided wtih substantially circular valve seats surrounding openings in opposite sides of the valve casing, the planes of the two valve seats converging, and a valve having a wedge shape substantially corresponding to the converging planes of the valve seats and having opposite faces of substantially circular contour adapted adjacent their peripheries to engage the respective valve seats, the valve being provided with grooves extending in planes substantially parallel to the respective planes of the seating faces of the valve and on opposite sides of a plane extending centrally through the valve at right angles to its transverse axis, thereby providing marginal webs respectively engaging the circular valve seats and adapted to flex to the degree required to insure accurate seating of the valve while providing also a substantially solid body within said webs and between said grooves to maintain the valve approximately rigid when seated.

1,786,296. ROLLING-MILL HOUSING. JEROME R. GEORGE, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 28, 1928. Serial No. 265,446. 17 Claims. (Cl. 80—55.)

9. In a rolling mill housing, a plurality of upright columns rising from the housing base, a housing cap wherein the upper ends of said columns are received, a plurality of sleeves rotatably mounted in said cap and each adapted to pass telescopically over one of said columns when said cap is lowered into position on said columns, a matching series of lateral grooves and projections formed externally of each column and internally of each sleeve, which are circumferentially displaced, one from the other, when said cap is lowered into position on said columns, means for rotating said sleeves in unison to interlock the sleeve projections and grooves with

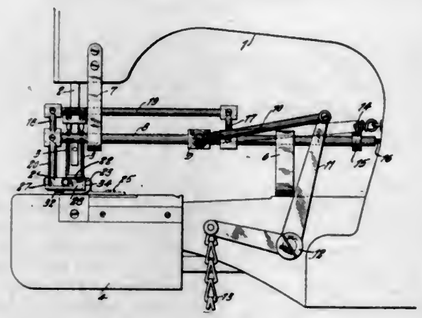


the column projections and grooves, for transmission to said columns of the upward rolling pressures exerted on said cap, and means acting between said cap and each of said columns for eliminating lost motion or play between said interlocked projections and grooves.

1,786,297. PROCESS OF ROLLING ALLOY STEEL. HOWARD M. GIVENS, Abington, FRANCIS B. FOLEY, Philadelphia, and JOHN L. COX, Springfield Township, Montgomery County, Pa. Filed Nov. 20, 1929. Serial No. 408,671. 6 Claims. (Cl. 80—60.)

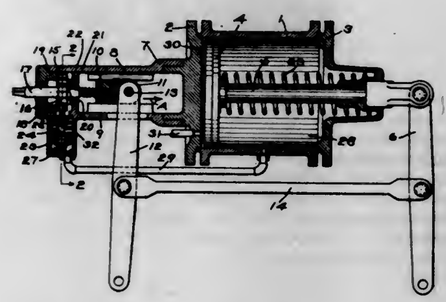
1. The process of rolling alloy steels that are strongly martensitic in character which comprises rolling the alloy steel while it is cooling within a range whose upper limit is substantially above its critical temperature on heating and whose lower limit is substantially above its critical temperature on cooling, then cooling, without rolling, to a temperature below its critical temperature on cooling, then reheating to a temperature not above its critical temperature on heating, and then completing the rolling while it is cooling from the temperature to which it is reheated.

1,786,298. METHOD OF AND APPARATUS FOR OPERATING ON TUBULAR ARTICLES. HORACE F. GRUMAN, Richmond Heights, Mo., assignor to Lewis Invisible Stitch Machine Company, Kittery, Me., a Corporation of Maine. Filed Mar. 30, 1925. Serial No. 19,382. 1 Claim. (Cl. 112—152.)



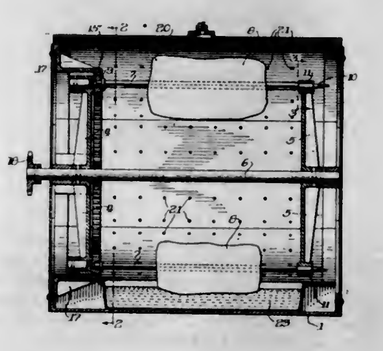
In a machine of the character described, means for folding the material to form a casing, means for stitching the formed casing, a band guide, constructed and arranged so that said guide may be positioned to guide a band into the casing or be moved clear of the casing, and means for adjusting the size of the casing.

1,786,299. SLACK ADJUSTER. MILTON L. HANCOCK, East McKeesport, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Aug. 14, 1928. Serial No. 299,550. 13 Claims. (Cl. 188—203.)



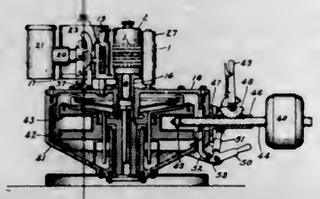
1. In a fluid pressure brake, the combination with a brake cylinder, of a slack adjuster operated by fluid under pressure supplied to said brake cylinder in applying the brakes, a support for said slack adjuster, and means subject to the pressure of fluid supplied to the brake cylinder for engaging said support for preventing the operation of said slack adjuster upon a predetermined increase in brake cylinder pressure.

1,786,300. MACHINE OR APPARATUS FOR TREATING FOODS OR THE LIKE. MONROE HARRISON, Chicago, Ill. Filed Feb. 8, 1928. Serial No. 252,892. 7 Claims. (Cl. 126—41.)



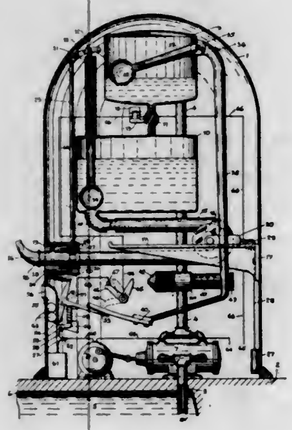
1. In a device of the class described, the combination with a casing having a stationary internal toothed annular gear in one end thereof and heating elements along sides thereof, of a rotating shaft journaled centrally in the casing, two disks secured on said shaft at opposite ends thereof, stub shafts journaled in the periphery of one of the disks and having spur gear pinions thereon meshing with the annular gear, spits arranged parallel to each other and to the central rotating shaft, sockets in said spur pinions for one end of the spits, said spits extending to the other disk, and separable bearings for the other ends of the spits in the second mentioned disk.

1,786,301. SOUND RECORDING AND REPRODUCING APPARATUS. CHARLES L. HEISLER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 19, 1928. Serial No. 320,261. 5 Claims. (Cl. 179—100.3.)



1. Apparatus of the character described comprising a convex film supporting member, means for moving the film longitudinally and in opposite directions at a substantially uniform speed, means for projecting a narrow beam of light on the film, means for shifting the light projecting means and the film supporting member transversely of the film, and means for retaining the film against transverse movement.

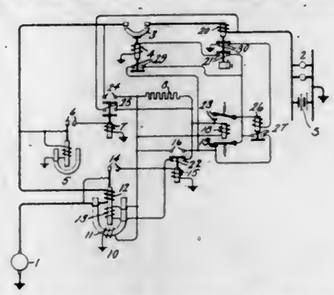
1,786,302. AUTOMATIC DISPENSER FOR LIQUIDS. ERNST HERBST and HANS KOHLER, Hoboken, N. J. Filed Feb. 29, 1928. Serial No. 257,892. 20 Claims. (Cl. 221—100.)



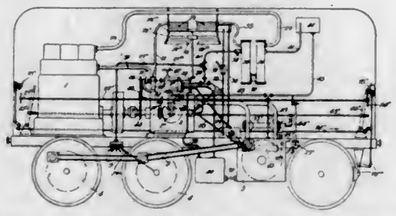
1. In combination with the apparatus described, a housing completely covering said apparatus, and having a hole therein, a dispensing hose passing through said hole, a shiftable sheave in said housing, over which passes said hose, mean pulling said sheave away from said hole and means normally locking said hose in said hole.

1,786,303. AUTOMATIC CONTROL EQUIPMENT. EUGENE L. HOUGH, Richmond Heights, Mo., assignor to General Electric Company, a Corporation of New York. Filed Mar. 2, 1929. Serial No. 344,046. 6 Claims. (Cl. 171—118.)

1. In combination, a source of current, a load circuit, a circuit breaker for connecting said source to said circuit, a directional relay for controlling said circuit breaker including a magnetizing winding responsive to the voltage of said source and two operating windings one of said operating windings being responsive to the current output of said source and the other of said operating windings being responsive to the voltage difference between said source and load circuit, means controlled by said relay for rendering said last mentioned operating winding unresponsive to said voltage difference when the source voltage exceeds the load circuit voltage, and means responsive to a predetermined electric condition of said load circuit while said last mentioned operating winding is unresponsive to said voltage difference for effecting the closing of said circuit breaker.

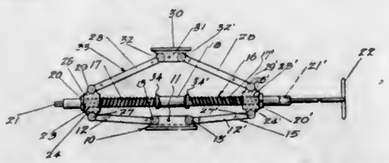


1,786,304. LOCOMOTIVE. MAURICE KERR INGOLDBY, Westminster, London, England assignor to Internal Combustion Locomotives, Limited, Westminster, England, a British Company. Filed July 8, 1926. Serial No. 121,115. 17 Claims. (Cl. 60—19.)



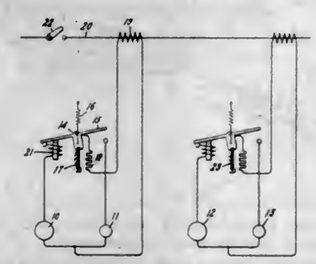
1. A locomotive consisting in the combination of an internal combustion engine, an hydraulic gear comprising a pump unit and a motor unit, driving wheels for said locomotive, means for driving the pump unit from the engine, means for transmitting power from the motor unit to the locomotive driving wheels cooling water for said engine, and means for utilizing the cooling water of the engine for cooling the motive oil of the hydraulic gear.

1,786,305. SCREW JACK. GEORGE H. JAMES, Oakland, Calif., assignor of one-half to Frank H. Simpson, Oakland, Calif. Filed Jan. 27, 1927. Serial No. 163,860. 2 Claims. (Cl. 254—126.)



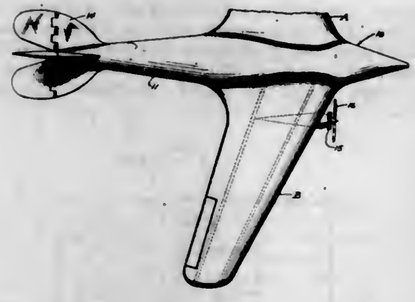
1. In a screw-jack of the class described, an elevating screw having right and left-hand threaded sections, correspondingly threaded nut members carried by said screw sections, a base for engagement with a fixed object, a head for engagement with a relatively movable object toggle members of equal length pivotally connecting said nut members with said head, and toggle members of equal length pivotally connecting said nut members with said base, said last toggle members being shorter than said first toggle members.

1,786,306. CONTROLLING DEVICE. BENJAMIN W. JONES, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Original application filed Apr. 12, 1924, Serial No. 706,190. Divided and this application filed Dec. 12, 1925. Serial No. 75,111. 12 Claims. (Cl. 200—88.)



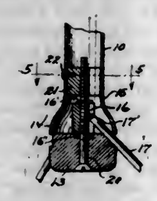
1. A thermal responsive device comprising a member movable between two positions, an electromagnet for holding the same in one of said positions, and a cooperating thermal responsive element arranged to be heated upon energization of the electromagnet for giving the member a tendency to move out of said position, whereby upon the deenergization of the said electromagnet the said member is moved to its other position.

1,786,307. AEROPLANE. HOBART R. KRIEGH, Albany, Calif. Filed Dec. 17, 1928. Serial No. 326,505. 4 Claims. (Cl. 244—14.)



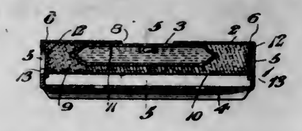
1. An aeroplane comprising a fuselage, wings extending laterally of the fuselage, said aeroplane being equipped with driving and propelling means, said wings being upwardly and rearwardly inclined, said wings presenting a varied angle of attack gradually increasing from the inner to the outer ends of the wings.

1,786,308. COMBINED MUSIC RACK AND CANE. JOSEPH LATOURELLE and FRANK STEVERMER, Centuria, Wis. Filed Dec. 18, 1925. Serial No. 76,290. 1 Claim. (Cl. 248—44.)



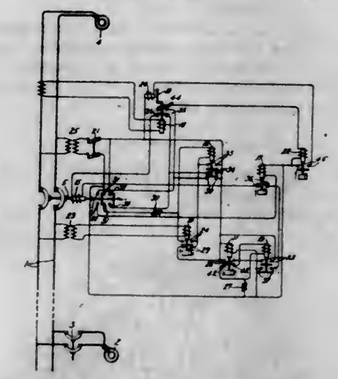
In a device of the class described, a tubular staff, an element fixed therein, a tripod structure comprising a head and sleeve and legs pivoted to the sleeve, said legs being movable from collapsed position, into diverging relation with reference to each other and so retained between the head and the end of the tubular staff, and means for detachably connecting the head and sleeve with the fixed element in the staff, said means extending longitudinally of the staff and providing an adjustable connection.

1,786,309. LEVEL. LANGDON LEA, Wynnewood, and JOHN A. HAWTHORNE, Jr., Moores, Pa. Filed Nov. 9, 1927. Serial No. 232,017. 3 Claims. (Cl. 33—211.)



1. A level of the character stated, comprising an upper casing having a top opening and a bottom slot extending longitudinally the entire length thereof, an indicating vial positioned within said casing and centered with respect to said top opening, the spaces on either end of and below said vial within said casing being packed with a slowly setting plastic material, and a support for said casing comprising a longitudinal member provided with end heads clamped against and forming closures for the ends of said casing, and provided with tongues for engaging the ends of said casing slot, said support being provided with narrow, longitudinal bottom edges.

1,786,310. CONTROL SYSTEM. ROBERT Y. MCCULLOUGH, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 29, 1929. Serial No. 335,955. 5 Claims. (Cl. 171—97.)

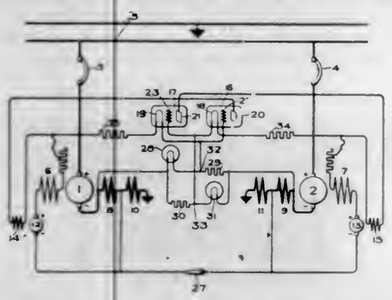


5. In combination, a normally energized circuit, an auxiliary source of current, means responsive to the voltage of said circuit for effecting the connection of said source to said circuit when the voltage of said circuit decreases below a predetermined value, and timing means responsive to the connection of said source to said circuit and the voltage of said source for effecting the disconnection of said source from said circuit after it has supplied current thereto for a predetermined time.

1,786,311. REGULATING SYSTEM. GORDON R. MCDONALD, Erie, Pa., assignor to General Electric Company, a Corporation of New York. Filed Dec. 26, 1929. Serial No. 416,343. 6 Claims. (Cl. 171—312.)

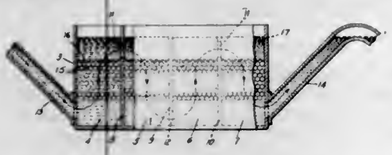
1. In combination, two sources of current connected in parallel, and means for maintaining a predetermined division of load between said sources including a plurality of resistors having different temperature coefficients con-

nected to said sources so that a given percent change in the differences between the current outputs of said sources produces a greater percent change in the potential differ-



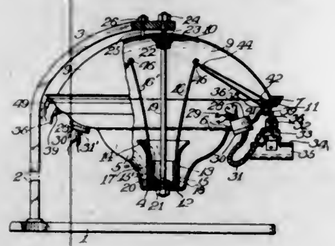
ence between predetermined points on said resistors, and regulating means responsive to the potential difference between said predetermined points.

1,786,312. PROCESS AND APPARATUS FOR CLEANING LIQUID MERCURY AND THE LIKE. BURT L. NEWKIRK, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 14, 1927. Serial No. 240,061. 8 Claims. (Cl. 210—126.)



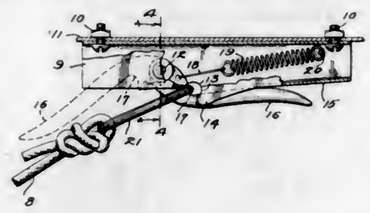
1. The method of separating from a liquid minute particles not wet by the liquid which comprises passing the liquid through a filter bed consisting of material not wet by the liquid and which serves to divide the liquid so as to develop a large liquid surface.

1,786,313. HAIR-WAVING APPARATUS. AUGUST H. OPPERMAN, Indianapolis, Ind. Filed Apr. 30, 1930. Serial No. 448,686. 10 Claims. (Cl. 132—36.)



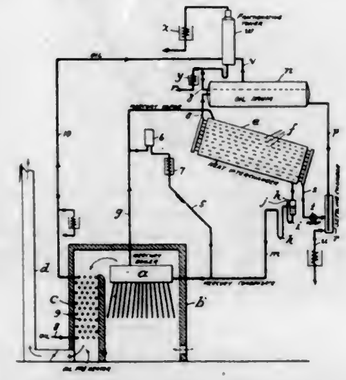
10. In hair-waving apparatus, the combination of a housing part having a bottom, a cup having a bottom and a cylindrical side wall, the cup bottom being seated upon the housing bottom and the wall having a flared upper portion, a plurality of laterally-elastic controllers having flat base portions vertically arranged on the inner side of said cup wall, a hollow core engaging the inner sides of said base portions and having a bottom seated upon the cup bottom, a center rod extending through all of said bottoms, a nut on said rod bearing upon said core bottom, and a nut on said rod bearing on said housing bottom, with heater-supporting cords anchored to the housing part and tensioned on the upper portions of the controllers.

1,786,314. TRIP-ROPE HOLDER. ANTHONY J. PASSMEL, Valley City, N. Dak. Filed Mar. 10, 1928. Serial No. 260,598. 2 Claims. (Cl. 280—33.16.)



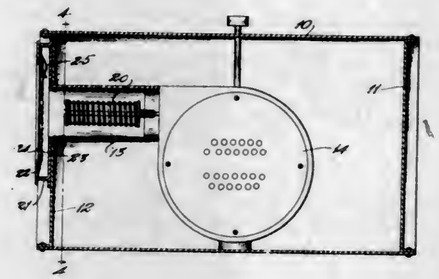
2. A device for releasably securing a trip rope of a tractor plow or similar farm implement to a tractor, comprising a bracket adapted to be secured to a tractor, a hook pivoted at one end in said bracket and normally projecting forwardly so that a portion of the hook strikes said bracket, a spring urging said hook into forwardly projecting position and an annulus adapted to be secured to a trip rope and to be engaged over said hook between said hook and bracket, said hook and bracket having co-operating notched and shouldered portions between which said annulus is adapted to be guided when carried rearwardly on said hook between said hook and bracket, said co-operating notched and shouldered portions acting to prevent the release of said annulus from said hook when said annulus is pulled in the general direction toward which said hook extends.

1,786,315. PROCESS OF CRACKING MINERAL OIL. ARTHUR E. PEW, Jr., Bryn Mawr, and HENRY THOMAS, Ridley Park, Pa., assignors to Sun Oil Company, Philadelphia, Pa., a Corporation of New Jersey. Filed Feb. 24, 1926. Serial No. 90,247. 3 Claims. (Cl. 196—119.)



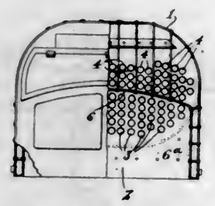
1. The process of cracking mineral oil which comprises continuously flowing the oil from a source of supply into a cracking zone and thence continuously circulating it through a second cracking zone and back to the first cracking zone, vaporizing a body of liquid mercury and flowing the mercury vapor into heating relation with the second cracking zone so as to effect condensation of mercury vapor and impart, by such condensation, sufficient heat to the oil in the second cracking zone to decompose higher boiling constituents into lower boiling constituents in the second cracking zone and to continue the decomposition in the first cracking zone, continuously removing vapors from the first cracking zone and fractionating the vapors outside the specified circuit.

1,786,316. DRYING DEVICE. JAMES V. RILEY, Simcoe, Ontario, Canada. Filed Apr. 17, 1930. Serial No. 445,044. 4 Claims. (Cl. 34—26.)



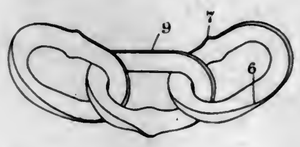
1. In combination, a casing, a blower in said casing having an outlet pipe opening through one end of the casing, a heater in said pipe, a switch box on the front of the casing into which the pipe opens, said box being provided with a door having a reticulated opening, and a spring clip on the top of the inner face of the door to clip the upper edge of a switch and support it behind said opening.

1,786,317. FIRE-TUBE STEAM BOILER. GORDON W. RUSSELL, Brookline, Mass., assignor to James Russell Boiler Works Co., a Corporation of Massachusetts. Filed Mar. 15, 1928. Serial No. 261 784. 1 Claim. (Cl. 122—76.)



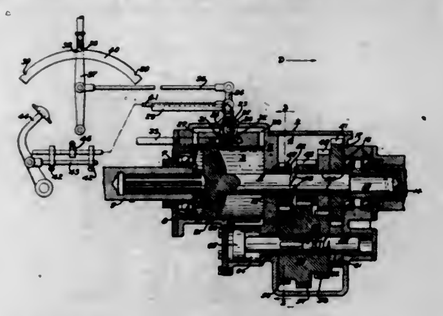
A fire tube boiler embracing in its construction a boiler shell of elliptical cross section with the major axis of the ellipse extending horizontally, a fire box located at the lower forward end of the shell and partitioned at its top from the overhead semi-elliptical upper half of the boiler shell by an upwardly arched crown sheet, a series of fire tubes extending directly from the rear of the fire box to the rear end portion of the boiler, a series of return tubes arranged above the level of the crown sheet and extending the whole length of the boiler, and vertical stay rods passing between both sets of fire tubes and tieing the top and bottom walls of the ellipse to resist the pressure of the internal body of steam.

1,786,318. CROSS CHAIN FOR ANTISKID DEVICES. FRANK E. STAHL, Tonawanda, N. Y., assignor to The Columbus-McKinnon Chain Corporation, Tonawanda, N. Y., a Corporation of Ohio. Filed Apr. 30, 1930. Serial No. 448,721. 3 Claims. (Cl. 152—14.)



1. A link for a tire chain having a twisted end and a sharp edge formed around one face thereof and its opposite face rounded.

1,786,319. TRANSMISSION BEARING. WENDELIN D. STARRETT, Alameda, Calif. Filed Sept. 18, 1927. Serial No. 219,224. 24 Claims. (Cl. 74—58.)



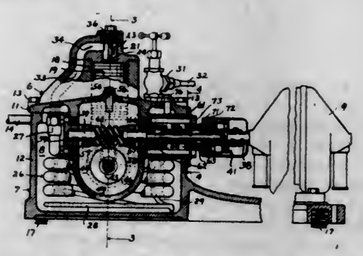
1. A transmission comprising a driving shaft, a driven shaft, an axially shiftable selector shaft mounted for rotation with one of said shafts a loose gear journaled on the selector shaft, a pitched key on the selector shaft for screwing into and engaging a complementary pitched keyway in the loose gear, means for shifting the selector shaft to cause engagement of the loose gear with the selector shaft, and means for connecting the engaged gear with the other shaft.

1,786,320. SURFACING APPARATUS. HERBERT R. STRATFORD, Cleveland, Ohio, assignor to The Stratmore Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 10, 1927, Serial No. 225,165. Renewed May 24, 1930. 2 Claims. (Cl. 51—195.)



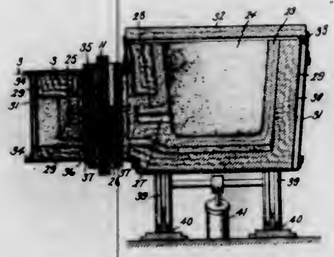
1. In surfacing apparatus, the combination of a rotatable shaft, a relatively thin flexible flexure resistant disc rigidly secured at its central portion to said shaft, and a surfacing disc also secured to said shaft, said first disc being free from said surfacing disc except at their respective centers but engaging and resistantly supporting said surfacing disc when pressed against a work surface.

1,786,321. GAS-COMPRESSOR UNIT. WILLIAM H. THOMPSON, Berkeley, Calif. Filed Jan. 6, 1928. Serial No. 244,904. 3 Claims. (Cl. 230—206.)



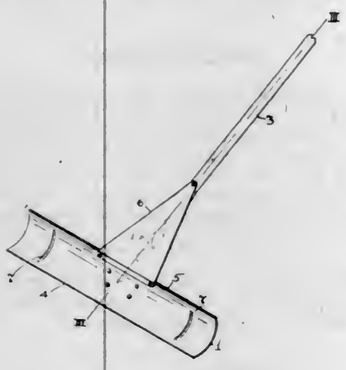
1. In apparatus of the class described, a base member providing a cavity arranged for the circulation of a cooling fluid therethrough, a top wall for said cavity, a pump having cylinder and crankcase portions carried by said top wall, a crank shaft for said pump extending from said crankcase, a drive shaft extending into said cavity, means within said cavity operatively connecting the extending portions of said shafts, and a casing carried by said top wall enclosing said connecting means and the extending shaft portions, said casing and crank shaft being disposed in the fluid circulation space of said cavity.

1,786,322. ELECTRIC FURNACE. MAGNUS UNGER, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed June 1, 1928. Serial No. 282,154. 3 Claims. (Cl. 266—1.5.)



1. In a metal melting furnace, the combination with a crucible for the charge, of a heat insulating wall substantially surrounding said crucible, a metal casing surrounding said wall and spaced therefrom and a plurality of metallic corrugated members between said casing and said wall.

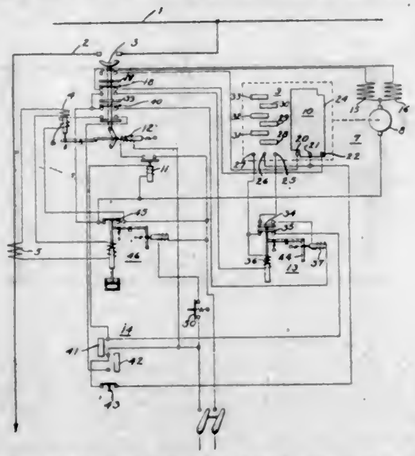
1,786,323. SCRAPER FOR CLEANING STREETS AND THE LIKE. CHESTER J. WELSH, Conneaut, Ohio, assignor to The Conneaut Shovel Company, Conneaut, Ohio, a Corporation of Ohio. Filed June 22, 1926. Serial No. 117,743. 2 Claims. (Cl. 37—53.)



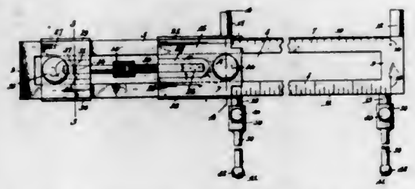
1. In an article of the character described, the combination of a blade curved throughout to present a forwardly extending portion and an upturned back wall forming a pocket, a handle-receiving socket projecting rearwardly of said blade, and means for protecting the handle, said means comprising a triangular plate secured to the upper part of said blade and thence extending rearwardly over said socket.

1,786,324. PERIODIC-RECLOSING CIRCUIT-BREAKER SYSTEM. ROY J. WENSLEY, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 16, 1923. Serial No. 632,592. 30 Claims. (Cl. 175—294.)

15. In a power-distribution system, the combination with a supply circuit, a load circuit and an interrupter therebetween, of means for opening the interrupter upon the occurrence of an abnormal condition in the load circuit, and reclosing means therefor comprising electromagnetic means operative in two directions, means operative as a timing switch controlled thereby, means operative as a directional switch also controlled by said electromagnetic means, and switching means controlled by the interrupter and cooperating with the directional switch to control the electromagnetic means.

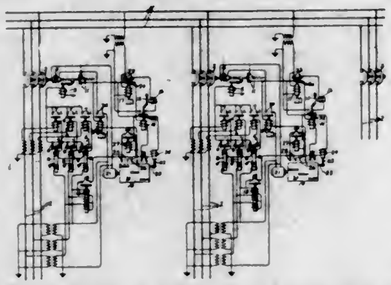


1,786,325. CALIPERS. JACOB J. YOUNG, Buffalo, N. Y. Filed Nov. 19, 1929. Serial No. 408,337. 2 Claims. (Cl. 33—163.)



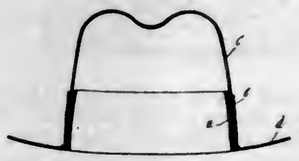
1. Calipers, comprising an elongated body-portion having graduations along the same, a gaging element movable lengthwise on said body portion, co-operating gaging studs extending respectively from said body portion and said gaging element, and extension legs detachably secured to said studs and having lateral projections thereon providing contact points in alinement with the outermost regions of said gaging studs.

1,786,326. AUTOMATIC SWITCHING SYSTEM. ARVID E. ANDERSON, Lansdowne, and FREDERIC D. KING, Brookline, Pa., assignors to General Electric Company, a Corporation of New York. Filed Dec. 28, 1928. Serial No. 328,980. 11 Claims. (Cl. 175—294.)



1. In combination, a load circuit, a plurality of supply circuits connected thereto, means for effecting the disconnection of said supply circuits from said load circuit and the automatic reconnection thereto after predetermined time intervals, means for preventing the reconnection of a supply circuit to said load circuit after the supply circuit has been connected thereto a predetermined number of times, and means responsive to a predetermined electrical condition of said load circuit for effecting the reconnection of any of said supply circuits to said load circuits which may be disconnected therefrom whenever said predetermined electrical condition occurs and said supply circuits are energized.

1,786,327. HAT MAKING. FRANK M. BARTLETT, Reading, and BENJAMIN F. HARTWELL, Winchester, Mass. Filed Mar. 5, 1930. Serial No. 433,237. 5 Claims. (Cl. 2—184.)



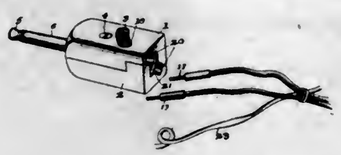
1. As an article of manufacture, a sweatband designed for stitching to hats, the inside of said band carrying an integral film of rubber coagulated from latex at least over the longitudinal zone where said band is to be stitched to the hat.

1,786,328. COMPOSITE SEPARATOR AND PROCESS OF MAKING THE SAME. RAYMOND C. BENNER, Bayside, and NEWCOMB K. CHANEY, Kew Gardens, N. Y., assignors, by mesne assignments, to Prest-O-Lite Storage Battery Corporation, a Corporation of Indiana. Filed Sept. 8, 1923. Serial No. 661,677. 5 Claims. (Cl. 136—145.)



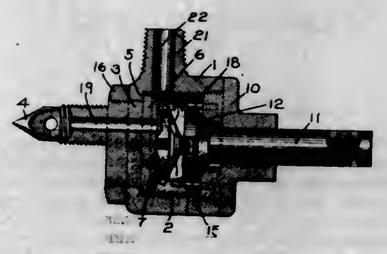
2. A composite separator comprising fabric embedded in bonded fiber.

1,786,329. SWITCHBOARD PLUG. ANATOL P. BEREGKOFF, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 8, 1922. Serial No. 605,711. 7 Claims. (Cl. 173—361.)



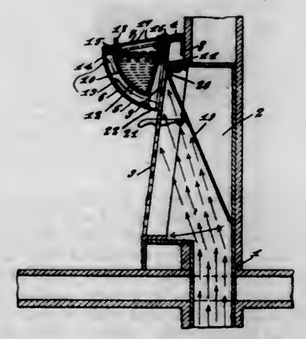
1. A switchboard plug having a longitudinally split shell of insulating material cored out for the metallic parts, metallic current carrying brackets respectively connected to plug terminals, sheet insulation disposed between said brackets, common means for holding said shell parts, said brackets and sheet insulation in assembled relation, and wire gripping means secured to said brackets and provided with hand engaging means projecting outside said shell.

1,786,330. VALVE DEVICE. LAURENCE J. BERKELEY, Cleveland, Ohio, assignor to W. M. Jenkins, trustee, Pittsburgh, Pa. Filed Aug. 10, 1929. Serial No. 385,013. 8 Claims. (Cl. 251—86.)



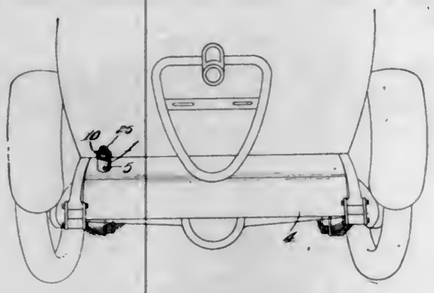
2. A throttle valve device comprising a valve seat member having a cavity in its seat of varying width and curved about the axis of said seat and a valve mounted on said seat and having a radially extending parallel sided port adapted to register with said cavity.

1,786,331. HUMIDIFIER FOR WALL REGISTERS. CHARLES A. BESCH, La Crosse, Wis. Filed Sept. 21, 1929. Serial No. 394,255. 2 Claims. (Cl. 98—109.)



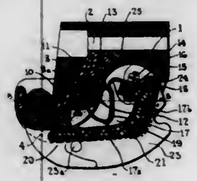
1. A humidifier designed to be removably attached to the upper edge of a wall register for a hot air furnace, comprising a body having an open back, a curved front which is apertured and an inclined top which is partly open, a water receptacle in the body having an inclined rear wall which is gradually spaced away from the inner wall of said body and an outer wall which is struck at the same curvature as the outer wall of the body, said water receptacle being disposed a distance below the open top of the body and providing, with said body, a continuous flange, said flange forming a seat for a flanged and apertured closure which is hingedly secured to the open top of the body for covering the open top of the body and receptacle.

1,786,332. TANK-CLOSURE LOCK. AUBREY O. BRADSHAW, Bluefield, W. Va. Filed Nov. 1, 1928. Serial No. 316,517. 3 Claims. (Cl. 70—90.)



1. In a closure for tanks, the combination with a tank having a filling neck, said neck having an annular enlargement intermediate its length, and having annular recesses at the upper and lower sides thereof, a closure cap arranged to seat in one of said recesses, said cap having a central plug portion fitting within said annular enlargement and projected below said enlargement, a lock mounted in said plug, said lock having latch members arranged to be projected from opposite sides of said plug for engagement in said lower recess.

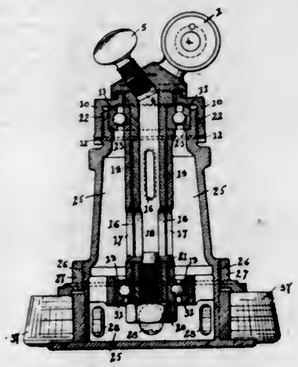
1,786,333. FUSE CUT-OUT FOR ELECTRIC CIRCUITS. JAMES BROWN and EDGAR BARRETT, St. Albans, Christchurch, New Zealand. Filed June 3, 1927, Serial No. 196,336, and in New Zealand June 22, 1926. 7 Claims. (Cl. 200—114.)



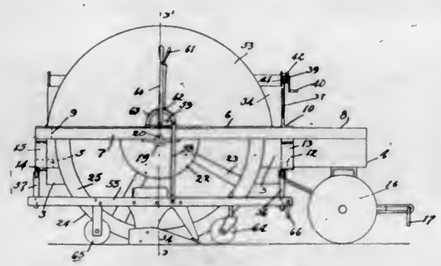
1. A fuse cut-out for electric circuits comprising a body portion of insulating material fitted with contacts adapted to be connected with circuit main ends, and adapted to be secured to a wall, panel or pole, and a fuse carrier of insulating material fitted with contacts connected by a fuse wire, detachably hinged to said body portion so that the carrier contacts may be engaged with or engaged from the contacts of the body portion without disconnecting said carrier from the body portion, while at the same time permitting bodily removal of said carrier for renewal of the fuse, said body being provided with side shield portions for protecting the contacts which it carries from outside influences.

1,786,334. LUBRICATING APPARATUS FOR THE FLANGES OF WHEELS OF ENGINES OR VEHICLES TRAVELING UPON RAILWAY TRACKS. ACHILLE BUCLON, Ales, France. Filed May 8, 1928, Serial No. 276,132, and in France May 18, 1927. 4 Claims. (Cl. 184—3.)

1. An oiling device for flanges of wheels comprising a stationarily mounted shaft, an oil container supported by said shaft and rotatably mounted upon the same, and a ring of porous material carried by said container and capable of receiving the oil from the container, said ring of porous material being adapted to have frictional engagement with the flange of the wheel for rotating the oil container and thereby, through centrifugal force, forcing the oil through said ring of porous material.

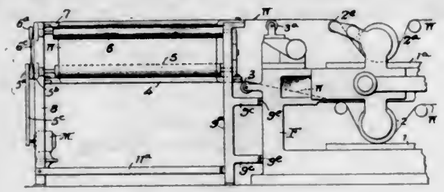


1,786,335. EARTH-EXCAVATING MACHINE. ADAM CLARK, Willows, Saskatchewan, Canada. Filed Dec. 1, 1928. Serial No. 323,011. 3 Claims. (Cl. 37—9.)



1. In an earth excavating machine, a rotatably mounted wheel embodying a relatively wide rim having side flanges, a hub, spokes extending between one of the flanges and the hub at one side of the wheel, the other side thereof being open, spaced cross members located on the inner side of the rim and forming with the rim a plurality of earth elevating buckets and earth deflecting means adjoining the hub and extending transversely of the wheel.

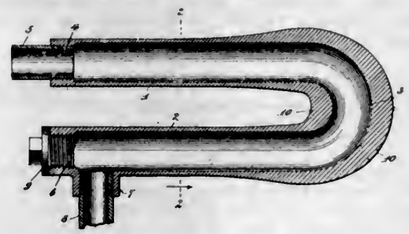
1,786,336. MULTICOLOR ATTACHMENT FOR FLAT-BED WEB-PRINTING PRESSES. PAUL F. COX, Chicago, Ill., assignor to The Goss Printing Press Company, Chicago, Ill., a Corporation of Illinois. Filed July 13, 1929. Seral No. 378,166. 11 Claims. (Cl. 101—188.)



1. In combination with a flat bed traveling cylinder web printing press having guides for directing a web successively between the cylinders and beds; web deflecting

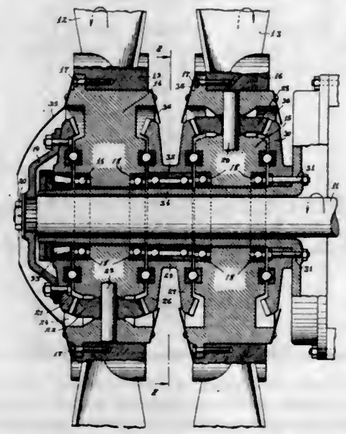
devices at the end of the press adjacent the beds, said devices including upper and lower angle bars and intermediate guide rollers whereby a narrow web after being printed on one bed can be deflected to one side before it reaches the second bed in such manner that the lengths of web over the beds will be parallel but at opposite sides of the press and the same side of the web will be presented to both beds.

1,786,337. WATER HEATER. CHARLES DARGENT, Brooklyn, N. Y. Filed Apr. 12, 1929. Serial No. 354,627. 3 Claims. (Cl. 257—248.)



1. A hot water heater, comprising a one piece substantially U-shaped body approximately twice as long as wide formed with parallel tubular members merging into an arc-shaped section having walls appreciably thicker than the tubular members, the bore in said parallel members and in said arc-shaped section being of uniform diameter throughout.

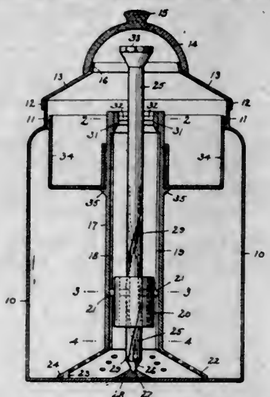
1,786,338. PROPELLER MECHANISM FOR AIRCRAFT. FRANK DONOHUE, Jr., New York, N. Y. Filed Aug. 16, 1929. Serial No. 386,267. 9 Claims. (Cl. 244—25.)



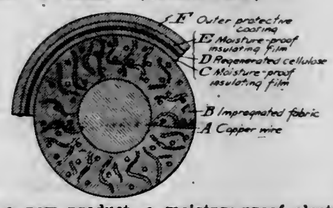
1. A propulsion mechanism for airplanes, including a plurality of oppositely pitched propellers, means operable by a single drive shaft for rotating said propellers in opposite directions at inverse speed ratios, said means including a bevel gear carried by said drive shaft, and freely rotatable pinions carried by one of said propellers and meshing with said gear.

1,786,339. GAUGE. EDWARD J. FORD, Spokane, Wash. Filed Nov. 5, 1929. Serial No. 404,963. 3 Claims. (Cl. 73—82.)

1. A liquid level gauge for use within reservoirs and the like comprising a tubular housing member having a foraminated base member, a float disposed and mounted for reciprocating action within said housing, a gauge element extending centrally and longitudinally through the housing, pin and slot connections between the float, housing and gauge element respectively to impart rotary oscillatory movement to the gauge element, and an enlargement carried upon the upper most visible portion of the gauge element calibrated at spaced intervals tangentially thereof to indicate the contents of the reservoir by known quantities.

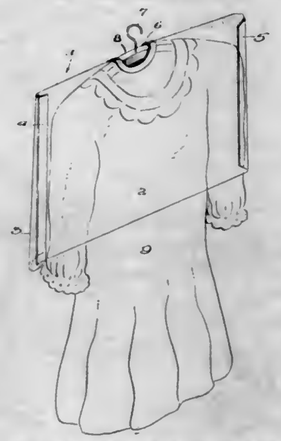


1,786,340. INSULATED CARRIER. HENRY A. GARDNER, Washington, D. C. Filed Feb. 1, 1930. Serial No. 425,335. 4 Claims. (Cl. 154—2.6.)



1. As a new product, a moisture-proof electrically resistive wrapping comprising a sheet of cellulosic material, carrying on each side thereof an adhering layer of a composition consisting essentially of a cellulose ester and a plasticizing resin.

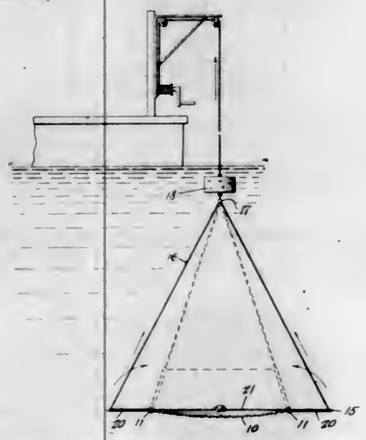
1,786,341. GARMENT COVER. CHARLES B. GILBERT, Burlington, N. J., assignor of one-half to J. Graham Bosworth, New York, N. Y. Filed Feb. 23, 1927. Serial No. 170,330. 1 Claim. (Cl. 223—61.)



A display device for garments, comprising an inverted protecting bag including unbroken front and rear walls

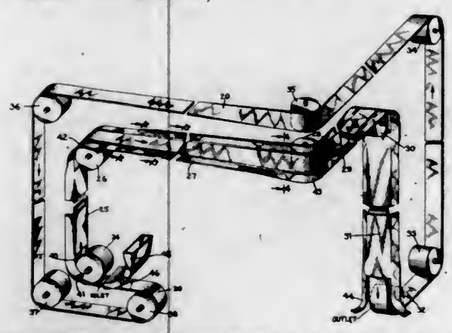
of transparent sheet material, said walls being secured permanently together along the side and top edges, the lower edges forming a permanently open mouth, through which the upper portion of a garment may be inserted for display, the length of said walls being less than that of said garment, and the lower edge of one wall extending below that of the adjacent wall, whereby access to the bag is facilitated, the upper end of said bag being provided with an aperture to accommodate the hook of a garment hanger, whereby when said device is applied to a garment on display, said garment is visible in its entirety, and the lower portion of the garment is unconfined, thus avoiding creasing or rumpling.

1,786,342. FISH NET. GEORGE W. GREENE, Hamarville, Pa. Filed Nov. 8, 1929. Serial No. 405,827. 1 Claim. (Cl. 43—8.)



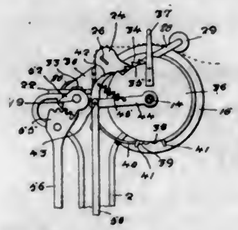
An automobile trap comprising a net having a continuous reinforcing element secured circumferentially thereof, spring elements disposed at intervals and encircling the reinforcing element, lifting arms carried by and extended as continuations of the spring elements and normally induced thereby to occupy positions in a plane with the net and reinforcing element, a netting carried upon the outer portion of the reinforcing element and extended for connection with the lifting arms, a bait carrying element having one end disposed above the net and a weight operated release mechanism operatively engaged with the opposite end of the weight carrying element.

1,786,343. UNIVERSAL DRAG CONVEYER. FRANCIS GRIFFITH, Passaic, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Feb. 7, 1930. Serial No. 426,709. 5 Claims. (Cl. 271—75.)



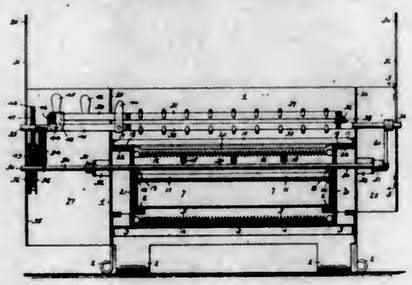
1. A drag conveyer comprising a stationary channel having a base and outwardly extending side flanges, said channel being twisted intermediate its length so that transverse elements of said base, at spaced points along the length thereof, are inclined to each other, and a belt of less width than the width of the channel positioned in said channel and adapted to travel therein, said belt conforming to the shape of the base of said channel and being in frictional contact therewith, so as to convey sheet material along the channel beneath the belt.

1,786,344. INTERMITTENT GRIP DEVICE FOR COPY-HOLDERS. HARVEY HARTER, Paterson, N. J., assignor, by mesne assignments, of forty-nine one-hundredths to John McGowan, Camden, N. J. Filed Aug. 18, 1926. Serial No. 130,020. 2 Claims. (Cl. 74—54.)



1. In an apparatus of the character described a ratchet, a shell rotatably mounted and surrounding the ratchet, said shell having an opening exposing a plurality of the ratchet teeth, a lever operated rod, a pawl carried thereby cooperating with said exposed teeth, the shell being adjustable to vary the relation of the opening therein to the initial position of the pawl, and a retaining member, the shell having a series of notches selectively engageable by the retaining member.

1,786,345. ELECTRIC COOKER. PETER ITZI, Philadelphia, Pa. Filed Dec. 11, 1929. Serial No. 413,346. 3 Claims. (Cl. 219—19.)

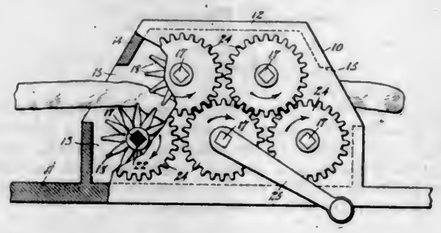


2. In an electric heater, a slice holding grid comprising two hingedly connected sections, means for swinging the sections away from each other, means for latching the sections associated, trunnions on the ends of one of the sections, guide means for the trunnions, a shaft journaled in bearings below the trunnions, an offset arm on one end of the shaft, a link connection between the arm and one of the trunnions, a substantially rectangular gear having a rounded end fixed on the second end of the shaft, a similar gear on one of the trunnions in mesh with the first mentioned gear, a coil spring connecting the last mentioned gear with the shaft, an operating handle on the first mentioned gear and a semi-circular guide for the handle.

1,786,346. CUTTING MACHINE. ORA E. JACQUES, Plymouth, N. H. Filed Mar. 14, 1929. Serial No. 347,139. 1 Claim. (Cl. 17—26.)

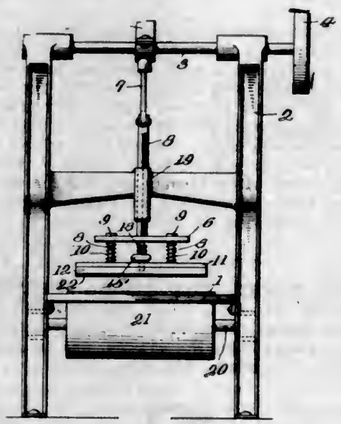
In a meat tendering machine, a group of upper shafts and a group of lower shafts, each shaft consisting of

cross-sectionally square stock, a series of cutters arranged on each shaft, each cutter having a square shaft hole therein to receive its shaft to prevent relative turning of the cutter with respect to the shaft, each cutter having spaced circumferenial cutting edges, each cutting edge being disposed at an angle with respect to the axis of



rotation of the related shaft, and means to rotate the upper shafts in the same direction and said lower shafts in the same direction but opposite to the direction of rotation of the upper shafts, to cause the rotation of the cutters, for the purpose of cutting into the opposite sides of a piece of meat when subjected thereto by rotating said cutters.

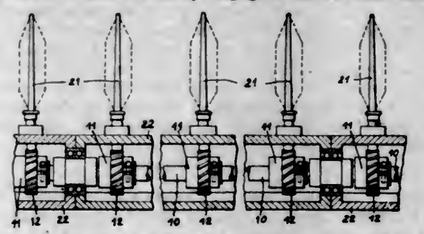
1,786,347. METHOD AND APPARATUS FOR STENCILING ON CLOTH. CHARLES F. KENNEDY, Stamford, Conn., assignor to Harry E. Verran, Stamford, Conn. Filed Dec. 20, 1929. Serial No. 415,479. 10 Claims. (Cl. 101—114.)



1. A method of stenciling on fabric which comprises the steps of placing paint in a pervious bottomed paint container which is impervious to paint at normal pressure, locating a stencil beneath said pervious bottom and pneumatically forcing paint from the container through the pervious bottom and the stencil on to fabric positioned there beneath.

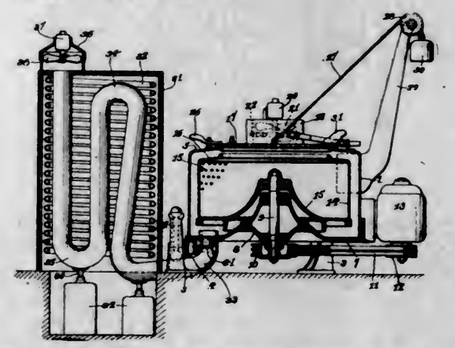
1,786,348. SPINNING AND TWISTING MACHINE. JOHANN JACOB KEYSER, Aarau, Switzerland. Filed June 10, 1930, Serial No. 460,198, and in Germany June 21, 1929. 5 Claims. (Cl. 118—8.)

1. In a spindle beam a hollow longitudinal beam casing, a plurality of spaced rotatable spindles carried thereby, a common actuating shaft for the said spindles and a plurality of operative connections between the actuating shaft and the spindles, each connection comprising a gear loosely mounted on the actuating shaft and meshing with a spindle actuating element, a cylindrical hollow sleeve fixedly mounted on the actuating shaft and centrifugal coupling means carried by the said loosely mounted gear and adapted to frictionally engage with the said hollow



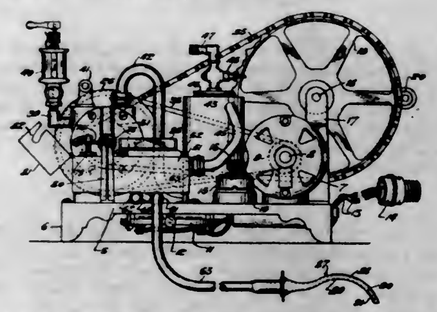
sleeve so as to establish a fixed connection therewith and to rotate the said spindle actuating gear when the common actuating shaft is rotated.

1,786,349. DRYING MACHINE. HARRY KOPLIN, Chicago, Ill., assignor to The Amico Company, Inc., Chicago, Ill. Filed Feb. 1, 1930. Serial No. 425,270. 4 Claims. (Cl. 210—66.)



2. In a clothes drier, an open top casing, an open top clothes drying basket within the casing, a lid for the casing formed with an opening, a heater shell carried by the lid and surrounding the opening, a steam coil within the shell, longitudinally aligned pipe sections mounted on the casing, steam conduits connecting the coil with the pipe sections and having loose connection with the latter to provide a hinge mounting for the lid, a weighted cable connected with the lid and normally tending to swing the same to open position, and a clamp carried by the casing for engagement with the lid to maintain the latter in closed position.

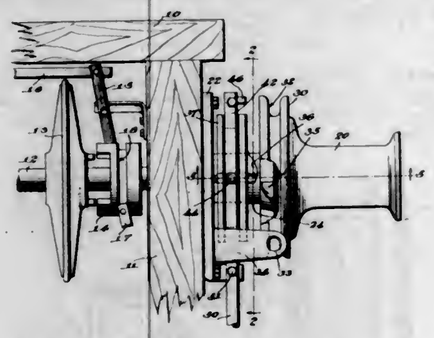
1,786,350. RESUSCITATOR. DAVID N. LAMBERT, Brooklyn, N. Y. Filed Sept. 12, 1925. Serial No. 56,028. 4 Claims. (Cl. 128—29.)



1. In a resuscitator or pulmotor of the class specified, means having an inlet for a gaseous medium and outlets for

the delivery of such medium to and its discharge from a patient, a pump connected to said inlet for delivering gaseous medium to said receiving means, said pump having a rotatable shaft, means comprising a reciprocating valve for alternately establishing communication between the inlet and delivery outlet and between the delivery and discharge outlets of said receiving means, means including a worm wheel for reciprocating said valve, and a plurality of worms of different pitch mounted on the shaft of said pump and selectively engageable with said worm wheel.

1,786,351. DRIVE OR CLUTCH MECHANISM FOR WINCHES. JOHN E. LE BUS, Electra, Tex. Filed Oct. 11, 1928. Serial No. 311,796. 2 Claims. (Cl. 192—33.)



1. A winch comprising a driving shaft, a spool driven by the shaft, a wheel mounted for rotation on the spool, a pair of clutch elements for connecting the spool with the wheel, a shifter adapted to be rocked for placing one of the clutch elements into operative relation with the second clutch element, a lug on the shifter and a cam on the wheel adapted to engage the lug for causing automatic disengagement of the clutch elements, the spool being provided with an integrally formed sleeve, the first mentioned clutch element being slidably keyed on the sleeve.

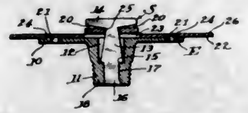
1,786,352. LOCKING DEVICE. CARL O. B. LOFGREN, Bridgeport, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed May 17, 1928. Serial No. 278,527. 6 Claims. (Cl. 200—119.)



1. In a safety device for a fuse, a button, transverse, divergent, non-radial recesses in one face of the button, said recesses extending to the periphery at spaced points thereabout, dogs pivoted in said recesses and having toothed ends adjacent the periphery, and a spring means engaging each dog and urging it about its pivot in the direction of desired rotation of the device.

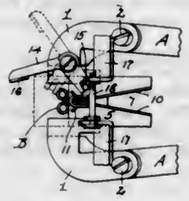
1,786,353. DEVICE FOR SECURING OUTLET BOXES TO THEIR HANGERS. ORREN E. LOGAN, Los Angeles, Calif., assignor of one-half to George L. Barnes, Los Angeles, Calif. Filed July 26, 1927. Serial No. 208,588. 12 Claims. (Cl. 247—22.)

1. In combination, a hanger adapted to be secured to a wall or ceiling and provided with a slot, an outlet box having openings in one wall thereof, and a device in the box comprising a body portion having protuberances received in certain of said box openings to prevent lateral shifting of the device in the box, and a stud fixedly secured to and projecting from the body portion and extendible through another of the box openings to project



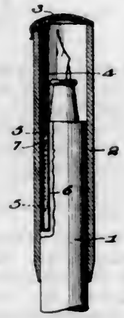
from the box, said stud having an elongated head insertable through said hanger slot when occupying a position parallel with respect to the length of the slot and operable when occupying a position transversely of the slot in response to relative rotation between the hanger and box, to secure the box to the hanger.

1,786,354. ATTACHMENT FOR BUTTON-SEWING MACHINES. JEFFERSON S. LOHMAN, Scranton, Pa. Filed Nov. 9, 1929. Serial No. 406,008. 3 Claims. (Cl. 112—107.)



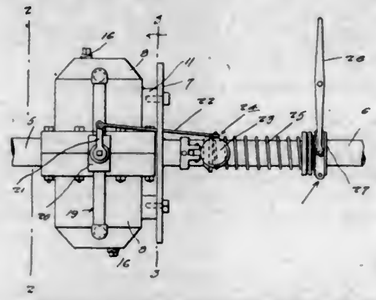
1. In combination with a sewing machine, including holding members, a member connected with each holding member and having a part extending inwardly beyond the inner edge of said holding member, the inner edge of said part having a groove therein, said grooves forming guideways, a plate slidably arranged in said guideways and having holding means thereon for receiving an article having eyelets thereon, with the eyelets projecting from the front of the plate, whereby the machine will sew the eyelets to fabric, and means for adjusting the plate inwardly or outwardly.

1,786,355. DEVICE FOR TIMELY OPENING AND CLOSING OF THE FLAP OF FOUNTAIN PENS. ROBERT PETER MARKSTEIN, Vienna, Austria. Filed Dec. 4, 1929, Serial No. 411,604, and in Austria Oct. 24, 1929. 4 Claims. (Cl. 120—49.)



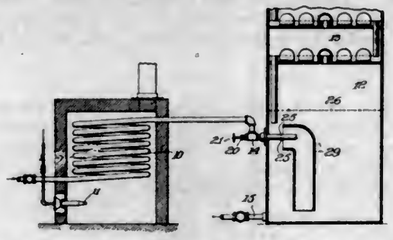
1. A pen barrel, a protecting sleeve for the pen slidable on the barrel and having a pivoted closure at its outer end, an operating rod for the closure, and coacting means, on the barrel and on the rod, to temporarily resist relative movement between the sleeve and the barrel and thereby cause the rod to operate the closure.

1,786,356. POWER TRANSMISSION. THOMAS R. MCFARLAND, Sawtelle, Calif. Filed Apr. 30, 1929. Serial No. 359,249. 2 Claims. (Cl. 192—60.)



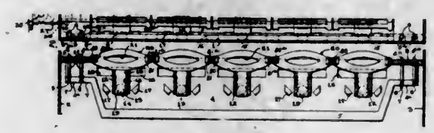
1. In a transmission structure of the class described, a main drive shaft, a driven shaft associated therewith, a plate fixed on one end of said driven shaft, a valved fluid clutch device carried by the plate through which the drive shaft rotatably extends, a centrifugal governor carried by said driven shaft, operating links between the arms of said governor and the valves of said clutch, and spring means for regulating the sensitivity of operation of the governor, said spring means comprising a coil spring surrounding said driven shaft and a collar assembly and pivoted operating lever therefor.

1,786,357. APPARATUS FOR DISTILLING HYDROCARBON OILS. CLARKE C. MILLER, Whiting, Ind., assignor to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed June 15, 1927. Serial No. 198,925. 7 Claims. (Cl. 196—126.)



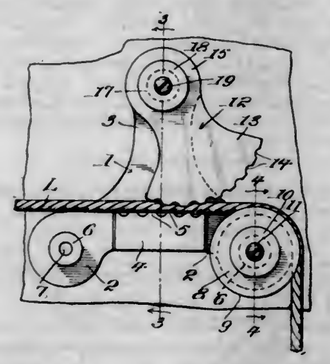
1. In combination, a flash drum for flashing heated hydrocarbon oils, a valve adapted to inject heated oil thereinto, said valve comprising a tubular portion provided with a seat and a flaring open-ended portion therebeyond, and a valve-member adapted to cooperate with said seat for the purpose of regulating the flow of oil through the valve, said flaring portion being provided with openings adapted to receive oil maintained in said flash-drum, and an elbow adapted to receive the oil discharged from said flaring portion and conduct it downwardly to the bottom of the flash drum.

1,786,358. GRATE. HENRY KEY MILNER, Birmingham, Ala., assignor to Morton Kirk Moore, Charleston, S. C. Filed June 14, 1926, Serial No. 115,928. Renewed Nov. 7, 1930. 3 Claims. (Cl. 126—180.)



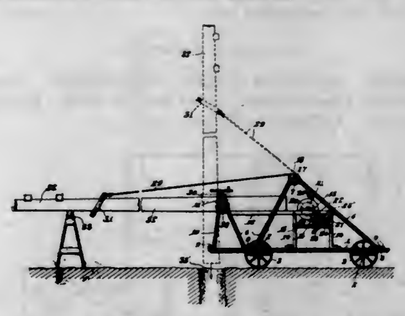
1. In a fuel supporting element for grates, an elliptical shaped head having a transverse opening extending entirely therethrough and a vertically disposed slot extending substantially the length of the head and stopping short of the ends of the latter and communicating with the transverse opening, a horizontal support, and a shank projecting from the under face of the head for supporting the latter on said horizontal support.

1,786,359. AUTOMATIC CLOTHESLINE FASTENER. GEORGE H. MILLER, Decatur, Ill. Filed Nov. 8, 1929. Serial No. 405,773. 1 Claim. (Cl. 24—134.)



A clothes line clamping device comprising an attaching plate, a fixed gripping member upon said plate having a gripping face member, over which the line is to be drawn in tautening the same, bosses upon the said face of the attaching member at opposite ends of the gripping member, a pulley interchangeably mounted upon the said bosses and over which and the face of the fixed gripping member the clothes line is to be drawn, and a gripping member pivotally mounted for swinging movement, and having a gripping edge for coaction with either end portion of the gripping face of the gripping member, in the swinging adjustment of the said pivoted gripping member to grip the clothes line between the gripping face of the fixed gripping member and the gripping edge of the pivoted gripping member when the gripping member is in either position of its pivotal adjustment.

1,786,360. LINE-POLE-SETTING DEVICE. EDWARD NOBLES, Pocatello, Idaho. Filed Aug. 27, 1928. Serial No. 302,411. 3 Claims. (Cl. 214—3.)



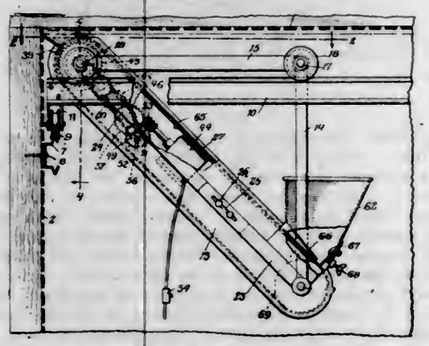
1. A device for setting line poles comprising a mobile structure including a platform having its forward portion provided with a cutout opening through its forward end, a cable winding and unwinding means on said platform rearwardly of the inner end of said cutout, a pair of standards secured on said platform forwardly of said means and each positioned on one side of said cutout at the forward portion of the latter, a releasable, combined clamping and binding element positioned between

said standards, said element including two parts for encompassing the butt end of a pole, one of said parts pivotally mounted on the upper end of the standards and the other of said parts carrying means for binding the pole to said element, a pole coupling member in the form of an annulus for encompassing the pole forwardly of said element, and an elevating cable winding on and off said means, extending over said element and having its forward end connected to the rear of said member.

1,786,361. PROCESS FOR THE PRODUCTION OF FILTER SIEVES AND SIEVES PRODUCED BY SUCH PROCESS. AUGUST PAHL, Berlin-Wilmersdorf, Germany. Filed Jan. 28, 1927, Serial No. 164,328, and in Germany May 20, 1925. 1 Claim. (Cl. 252—2.)

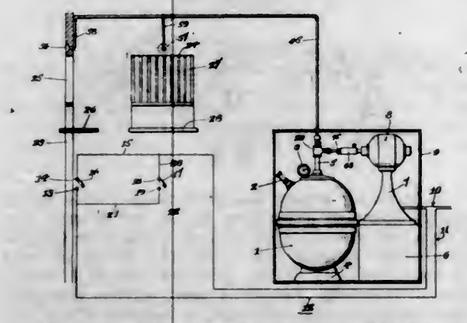
A metal screen having a covering coat of adhesive and a surface coat of particles of absorbent material secured by the adhesive.

1,786,362. PLASTERING MACHINE. THOMAS PALATINI, Belmar, N. J. Filed May 18, 1929. Serial No. 364,165. 6 Claims. (Cl. 72—130.)



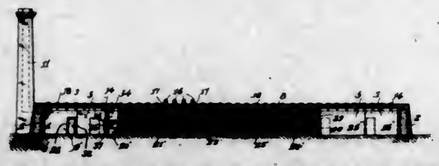
1. A plastering machine, including rails adapted to be secured to the walls of a room, wheels rotatably mounted on said rails, transverse bars mounted on said wheels, said bars extending from one side of the room to the other, a plurality of wheels carried by said bars, a frame supported by said wheels, part of said frame acting as an elevator, said elevator being formed with an extending wall acting as a trowel for applying the plaster raised by said elevator, and means carried by the elevator for actuating the elevator and simultaneously moving said frame along said longitudinally-positioned bars.

1,786,363. BURGLAR-GUARD APPARATUS. THOMAS G. PATE, Liberal, Kans. Filed Nov. 29, 1929. Serial No. 410,619. 4 Claims. (Cl. 20—1.01.)



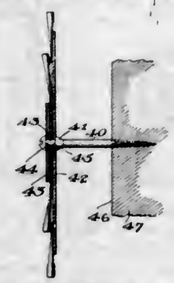
1. In a burglar guard apparatus of that type including a conducting line for tear gas, the combination of a reservoir containing an agent under pressure and having an outlet adapted to communicate with said line, a valve normally closing the outlet, a motor normally in an open power circuit, means for closing said circuit to make the motor active, and means operated from the motor for quickly shifting said valve to establish communication between the line and the outlet.

1,786,364. METHOD AND APPARATUS FOR DRYING AND BURNING MOLDED WARE. JOHN MARTIN PILLATZKE, Minneapolis, Minn. Filed Mar. 18, 1929. Serial No. 347,906. 5 Claims. (Cl. 25—134.)



1. An apparatus of the character described comprising, an endless burn tunnel having its upper wall provided with a plurality of smoke outlets, a smoke flue extending lengthwise of the tunnel and having its upper wall formed with a plurality of longitudinally spaced smoke inlets, removable caps normally closing said outlets and inlets, means for selectively connecting certain of said outlets and inlets to provide for the passage of smoke from the burn tunnel to the smoke flue through selected outlets and inlets, and means for creating drafts of air in said tunnel on opposite sides of said connected outlets and inlets, said drafts flowing longitudinally of the tunnel toward the connected outlets and inlets.

1,786,365. CURTAIN OR PORTIÈRE HOLDER. DANIEL SAFFORD QUINTARD, New York, N. Y. Filed Apr. 17, 1930. Serial No. 445,061. 8 Claims. (Cl. 156—33.)



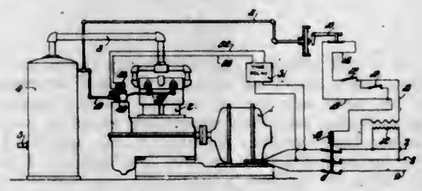
5. In combination, a fastening device comprising a shank having a head at one end and a point at the other end, a frusto-conical enlargement on the shank spaced from the head to provide confining means for rosette disks, and rosette disks mounted on the shank between the head and the enlargement.

1,786,366. CABLE-TRANSPORT DRUM. JULIUS RATH, Lippstadt, Germany, assignor to the Firm Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. Filed Feb. 1, 1930, Serial No. 425,147, and in Germany July 20, 1927. 1 Claim. (Cl. 242—77.)



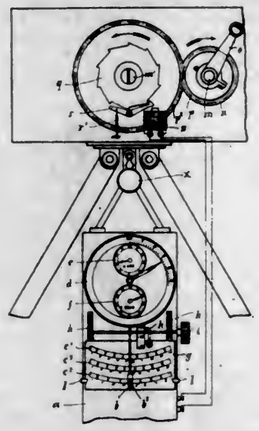
A metallic cable transported drum, comprising a substantially cylindrical portion, disc portions at either end of said cylindrical portion and of considerably greater diameter than said cylindrical portion, said discs having outwardly extending flanges around the peripheries thereof, said flanges having corrugations of wave-like configuration around their peripheries parallel to the axes of said discs and of a slight depth, said depth being less than the difference in the diameters of said cylindrical portion and of said discs, to aid in handling the drum and to permit the easy application of wooden planking to the drum.

1,786,367. AUTOMATIC COMPRESSOR-CONTROL SYSTEM. JOHN W. SANFORD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed June 1, 1928. Serial No. 282,256. 20 Claims. (Cl. 230—4.)



1. In an automatic compressor control system, in combination, a compressor, a driving motor therefor, means including a pressure responsive device for automatically starting and stopping the compressor in response to variations in compressor discharge pressure, an unloading device for said compressor automatically operable to cause loading and unloading in response to discharge pressure, said start and stop means and said unloading device being selectively operable to accomplish their respective functions, and control means operable either to render said start and stop means effective or to render such means ineffective while control is effected by said unloading device during continuous running of the compressor.

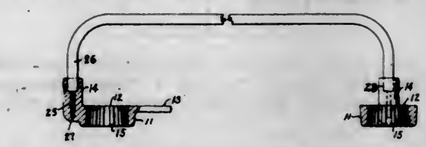
1,786,368. METHOD AND DEVICE OF SYNCHRONIZING CINEMATOGRAPHIC PERFORMANCE AND SOUND PRODUCTION. JOHANN JACOB FRIEDRICH STOCK, Munich, Germany. Filed Apr. 23, 1926, Serial No. 104,197, and in Germany May 4, 1925. 17 Claims. (Cl. 88—16.2.)



8. The method of synchronizing cinematographic performance and sound production, characterized by automatically regulating the advance of cinematographic film at a transmitting station by positive time-control means, correspondingly regulating the advance of duplicate films at independently operable stations by like time-control means correspondingly set, and producing and regulating sound accompaniment for the film according to the advance thereof at the transmitting station only while simultaneously transmitting the sound to the receiving stations.

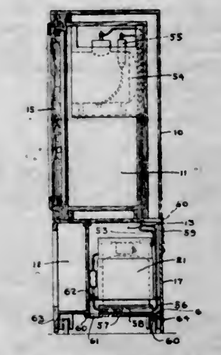
17. In an arrangement for practicing the method of synchronizing cinematographic film projection with sound accompaniment as claimed and described herein, the combination with a cinematograph having mechanism for feeding a film therethrough, of a clock-like device having a movable contact member, contact pieces over which said member is movable, and check-means in circuit with said pieces and operable retardably upon said mechanism by electric impulses through the circuit for controlling the rate of film feed in consonance with the rate at which the sound accompaniment is produced.

1,786,369. BATTERY-CHARGING CONNECTER. HAROLD C. TERRELL and FRANK A. KERKHOFF, Cincinnati, Ohio, assignors to The Ohio Parts Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 30, 1928. Serial No. 296,232. 2 Claims. (Cl. 173—259.)



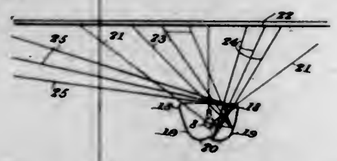
1. A battery connecter comprising a body having a hole the wall whereof is provided with sharp-edged ribs arranged for scraping the outer periphery of a tapered battery terminal post for forming good electric connection between said body and said post, a fork at one side of said hole for connection with a battery terminal post, and a lug at the other side of said hole, the axes of said lug and of said hole being substantially parallel, and an insulated electric conductor, said electric conductor having an end extending beyond its insulation, and said end of said electric conductor and the proximate end of said insulation imbedded in said lug.

1,786,370. REFRIGERATOR. MATSON C. TERRY, Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 19, 1925. Serial No. 70,118. 9 Claims. (Cl. 62—116.)



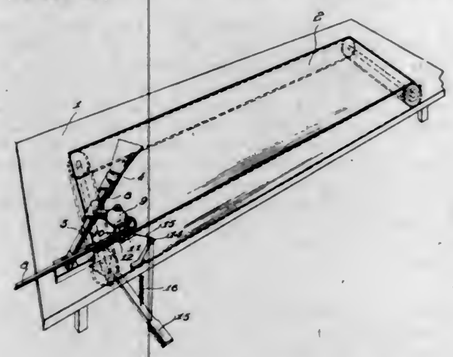
1. In a refrigerating apparatus, the combination of an evaporator, a condenser, a fluidtight casing enclosing a motor and a compressor, substantially V shaped cooling fins provided upon the outer walls of the casing, a jacket surrounding the cooling fins, and a blower for passing air between the casing and the jacket.

1,786,371. LIGHTING FIXTURE. WILLEM JOHANNES DOMINICUS VAN DIJCK, The Hague, Netherlands, assignor to Naamlooze Vennootschap: Glasfabriek "Leerdam" Voorheen Jeekel, Mijnssen & Co., Leerdam, Netherlands. Filed Feb. 15, 1929, Serial No. 340,135, and in the Netherlands Feb. 13, 1928. 3 Claims. (Cl. 240—78.)



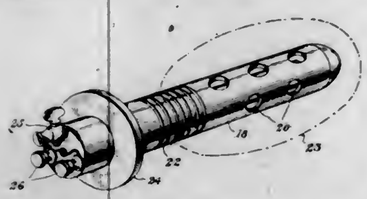
1. A lighting fixture comprising an incandescent lamp, and a light-reflecting casing surrounding the same and provided with a top opening; said casing embodying distinct upper and lower, convexo-concave ellipsoidal portions disposed with their concave surfaces turned toward each other, so that the rays emitted by the lamp and impinging against the surface of the bottom portion will be reflected by the latter a single time only and will pass through said opening, while avoiding the lamp; one focus of the ellipsoidal parts being disposed at the center of the incandescent lamp.

1,786,372. FOOD PRODUCT AND METHOD OF MARKETING THE SAME. CHARLES H. VOGT, Philadelphia, Pa. Filed Jan. 23, 1928. Serial No. 249,304. 6 Claims. (Cl. 99—11.)



1. In the process of making scrapple, the steps which comprise introducing the scrapple mixture while hot into an imperforate molding receptacle, and removing the scrapple from the molding receptacle with a gaseous medium under pressure applied between the molded scrapple and a wall of said receptacle.

1,786,373. ELECTRICALLY-HEATED THERAPEUTICAL APPLIANCE. RALPH C. WALKER, Portland, Oreg. Filed Nov. 30, 1929. Serial No. 410,780. 6 Claims. (Cl. 128—344.)



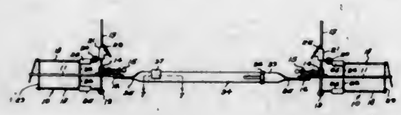
1. A therapeutic appliance comprising in combination, a heating element, a sleeve surrounding the heating element in spaced relation thereto and provided with perforations for the passage of liquid therethrough, and a dilatable sheath disposed about and housing said perforated sleeve, and means for admitting liquid into the sheath.

1,786,374. BOOT AND SHOE CONSTRUCTION. CHRISTIAN WALTON, Chicago, Ill. Filed Nov. 23, 1928. Serial No. 321,495. 3 Claims. (Cl. 36—15.)



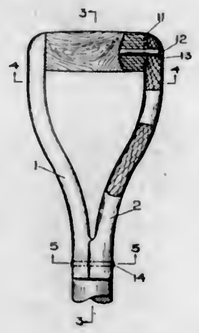
1. In a boot and shoe construction, an insole, an intermediate sole, anchoring elements on said intermediate sole, an outer sole having recesses therein, means for interconnecting said soles comprising fastening elements including head portions mounted in the anchoring elements on said intermediate sole, and securing elements disposed in the recesses in said outer sole and connected to said fastening elements.

1,786,375. ANIMAL HOPPLE. HARVEY LOUIS WATSON, Mount Pleasant, Iowa. Filed Apr. 23, 1929. Serial No. 357,511. 6 Claims. (Cl. 119—128.)



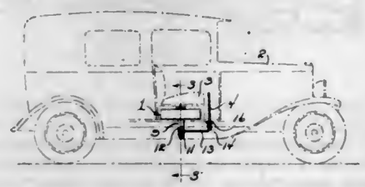
1. In an animal hopple, pairs of leg holding members, each pair comprising an inner bar, a transverse adjustable bar carried by the inner bar, sides adjustably mounted upon the transverse bar, jaws carried by the sides, means connecting said sides, and means connecting said pairs of members.

1,786,376. SHOVEL HANDLE. LEWIS EDMOND WEBSTER, Wilkes-Barre, Pa. Filed Feb. 15, 1927. Serial No. 168,277. 7 Claims. (Cl. 294—57.)



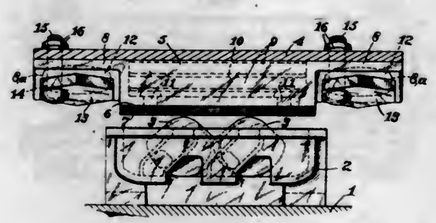
1. In a split-D handle construction, a main stem having side arms, a pressed metal casing embracing the body of the stem and said arms, a grip between the ends of the arms, said casing forming a ferrule for the ends of the arms and the grip.

1,786,377. ROAD-SANDING DEVICE FOR AUTOMOBILES. NELSON E. WHIPPLE, Windsor, N. Y. Filed May 7, 1930. Serial No. 450,561. 1 Claim. (Cl. 291—38.)



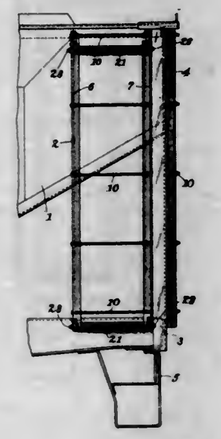
A road sanding device for automobiles comprising an elongated supply tank mounted under the front seat of an automobile and having the bottom wall inclined upwardly from each end of said tank toward the intermediate portion thereof to cause gravitation of the sand in the tank toward each end thereof, discharge pipes in communication with the ends of the tank and having the discharge ends thereof disposed a considerable distance in advance and in alinement with the rear wheels of the automobile to permit the sand to strike and spread on the roadway before being engaged by the rear wheels, valves in said pipes, and a control means for the valves to regulate and discontinue the flow of sand from the pipes as desired.

1,786,378. SIDE BEARING. WILLIAM E. WINE, Toledo, Ohio. Filed Mar. 1, 1927. Serial No. 171,758. 1 Claim. (Cl. 308—226.)



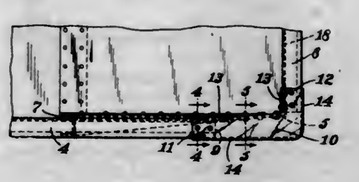
A side bearing comprising a truck bearing and a body bearing, the body bearing adapted to be secured to the bottom sloping wall of a bolster and the said body bearing having wings extending out beyond the body portion of the bearing and lying parallel with the bolster, the said body of the bearing adapted to lie in a horizontal plane, the said wings each provided with a circular opening, circular plates located in these openings and said plates free to turn in said openings without being moved inwardly or outwardly of said openings, bolts eccentrically mounted in said plates, the bolts adapted to be secured to the body bolster and said bolts extending at right angles to the said sloping wall of the body bolster and to the body bearing, said plates when turned capable of adjusting the body bearing with relation to the height of the truck bearing, said bolts being shorter in length than the depth of the body bearing, and means on the bolts for locking the circular plates in the openings.

1,786,379. CAR LADDER. WILLIAM E. WINE, Toledo, Ohio. Filed Apr. 16, 1928. Serial No. 270,303. 9 Claims. (Cl. 228—49.)



1. A freight car ladder comprising angular stiles, said stiles having openings substantially rectangular in shape in the opposite faces of said stiles, and round rungs having flattened ends to be interlocked within the openings of the two respective faces in each of said stiles.

1,786,380. CORNER CONSTRUCTION FOR FREIGHT CARS. WILLIAM E. WINE, Toledo, Ohio. Filed Apr. 2, 1929. Serial No. 351,968. 7 Claims. (Cl. 105—406.)



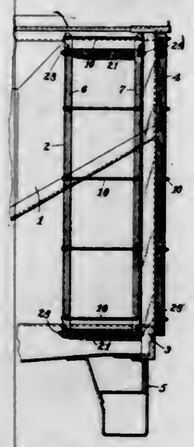
1. A freight car having end side sheets sloping from near the end side stakes to the corner posts of the freight car, end top rails, side top rails terminating short of the ends of the end top rails, right angular shaped brackets riveted to the ends of the end top rails and side top rails, and also riveted to the end side sheets to thereby make the top rails rectangular in outline.

2. A freight car having inwardly sloping end side sheets, top side rails and end top rails, the side top rails terminating short of the end top rails, corner brackets respectively having a downwardly extending flange on its inner side, the said brackets riveted to the said top rails, and the end sheets also riveted to the said respectively downwardly extending flange of the said brackets.

1,786,381. CAR LADDER. WILLIAM E. WINE, Toledo, Ohio. Original application filed Apr. 16, 1928, Serial No. 270,303. Divided and this application filed Apr. 17, 1929. Serial No. 355,842. 6 Claims. (Cl. 228—49.)

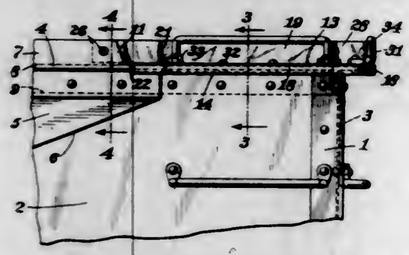
4. A car ladder comprising angle iron stiles and rungs, brackets within the angles of the stiles, each of said

brackets having a portion spaced from both the legs of the stile, car brackets to respectively engage the brackets



on the stiles and fill up the spaces between the two respective legs of the stiles, and means for locking the stiles to the car brackets.

1,786,382. CORNER CONSTRUCTION FOR FREIGHT CARS. WILLIAM E. WINE, Toledo, Ohio. Filed Feb. 12, 1930. Serial No. 427,823. 11 Claims. (Cl. 105—406.)



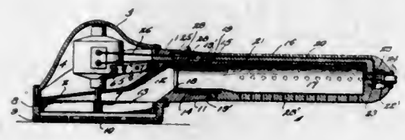
1. A freight car having end side sheets sloping from the normal sides of the car to the corner post, end top rails and side top rails formed of Z-bars and the end top rails and side top rails terminating short of one another, the upper legs of the said Z-bar rails being cut away near their adjacent ends, a bracket for the respective corners resting on the said Z-bar rails, and an upwardly extending flange on each bracket adapted to be secured to the upper legs of the respective adjacent Z-bar top rails.

2. A freight car having end side sheets, end sheets, and corner posts, Z-bar top side rails and Z-bar top end rails, the top leg of the respective Z-bars being cut away, corner brackets respectively secured to the end and side rails and extending between the cut-out portions of the top legs thereof, each of said brackets having a flange along its inner edge and extending outwardly near its opposite ends and secured to the said Z-bars.

1,786,383. PROCESS OF PURIFYING NATURAL AND ARTIFICIAL MATTER. CECIL ROY BRABAZON YOUNG, Hamburg, Germany. Filed Aug. 30, 1926, Serial No. 132,660, and in Germany Sept. 11, 1925. 3 Claims. (Cl. 252—8.)

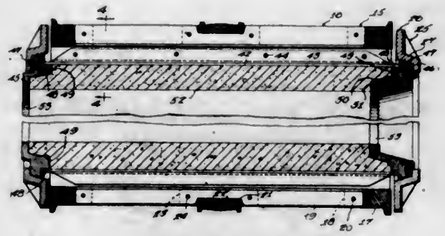
1. The herein described process of removing impurities from natural or artificial matter such as minerals and rock, which consists in purifying the disintegrated matter by means of a liquid consisting essentially of sulphuric acid, hydrochloric acid and oxalic acid.

1,786,384. VACUUM BRUSH. WILLIS J. AMSTUTZ, Latty, Ohio. Filed Jan. 12, 1927. Serial No. 160,720. 2 Claims. (Cl. 15—7.)



1. A vacuum brush comprising a hollow head, a detachable top for said head, a curved partition formed in said head and dividing the latter into upper and lower chambers, a motor supported in the upper chamber with its shaft extending thru the partition into the lower chamber, a fan secured to the extending end of the shaft, a bottom plate for said head formed with parallel slots disposed upon opposite sides of the shaft, bristles secured to said bottom plate, a sleeve formed with said head, a handle secured to said sleeve, dust receiving means in said handle, said head having a passage-way providing communication between said sleeve and the lower chamber, and means carried by said sleeve to control the motor.

1,786,385. APPARATUS FOR FORMING HOLLOW ARTICLES OF CEMENTITIOUS MATERIAL. DAVID EDWARD ANDREWS, Detroit, Mich., assignor of sixty one-hundredths to Walter L. Stone, Detroit, Mich. Filed Nov. 17, 1927. Serial No. 233,994. 7 Claims. (Cl. 25—30.)



1. Apparatus of the character described comprising a cage, means for rotatably supporting said cage, a form adapted to be arranged in said cage and provided with ends having tapered portions, said cage being provided with tapered portions adapted to receive the corresponding portions of said form, one of the tapered portions of said cage being detachable to permit withdrawal of said form from said cage, and means for rotating said cage.

1,786,386. EXTRACTION OF TIN FROM ORES OR MATERIALS CONTAINING TIN. EDGAR ARTHUR ASHCROFT, Waye House, near Ashburton, England. Filed May 4, 1928, Serial No. 275,267, and in Great Britain June 24, 1927. 3 Claims. (Cl. 75—17:)

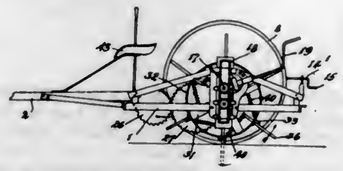
1. In the extraction of tin, the steps of reducing tin oxide by means of carbon and divided iron.

1,786,387. ICE-CREAM CAKE AND METHOD OF MAKING SAME. DONALD ALEC BATTISTA, Washington, D. C. Filed July 25, 1930. Serial No. 470,680. 4 Claims. (Cl. 107—54.)



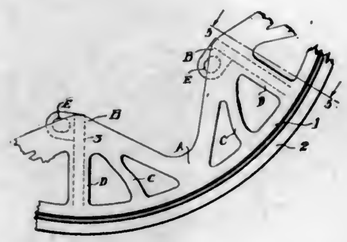
2. A process for preparing ice cream cake, which consists in baking a cake, immediately cooling the same rapidly from its hot condition, then slicing the cake into equal layers, spreading ice cream mix between the layers and covering the same with an edible coating, and finally freezing the whole.

1,786,388. CULTIVATOR. JOSEPH BEAUDRY, Somerset, Manitoba, Canada. Filed Sept. 24, 1928. Serial No. 307,907. 3 Claims. (Cl. 97—216.)



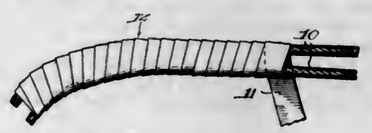
1. In a cultivator, a rotatably mounted drum having spaced longitudinally disposed angle bars at the periphery thereof, a row of teeth carried by each bar, the teeth in the rows passing through suitable openings provided in the bars and each tooth being pivotally mounted on the bar and adjustable tensioned springs connecting the inner ends of the teeth to the drum.

1,786,389. STRUCTURE OF AUXILIARY FLANGES FOR AUTOMOBILE WHEELS. ERNEST R. AMBROSE, Topeka, Kans., assignor to U. S. Safety Flange Company, Topeka, Kans., a Corporation of Kansas. Filed May 27, 1929. Serial No. 366,491. 1 Claim. (Cl. 301—39.)



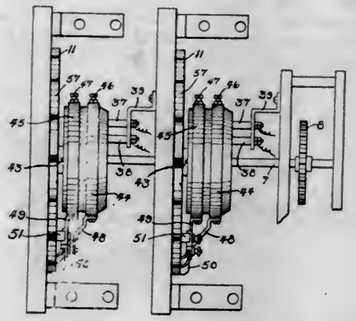
In an auxiliary flange for automobile wheels to take the load upon deflation of a pneumatic tire, a flange, the web of which is flat and comprises a plurality of arches and struts as connecting means for the transmission of the load to knee members, the knee members each positioned integral with the web at one of the struts thereon and extending laterally therefrom and having at its outward extremity a portion formed at right angles and parallel with the web, the said portion being apertures to receive a bolt.

1,786,390. GASKET. MARTIN M. CODY, Chicago, Ill., assignor to Crane Packing Company, a Corporation of Illinois. Filed Oct. 21, 1929. Serial No. 401,318. 5 Claims. (Cl. 154—45.5.)



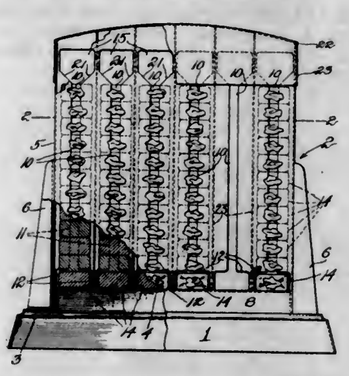
1. A flexible gasket comprising a pair of cores of compressible material and a helical wrapping of soft metal foil about the same, said cores being spaced apart with the metal bent partially around the cores to provide a section thinner in the middle than at the ends.

1,786,391. CIRCUIT CLOSER. WILLIAM H. GROVER and WILLIAM S. POOLEY, Toledo, Ohio, and CLARENCE E. MERRITT, Adrian, Mich. Original application filed Apr. 1, 1926, Serial No. 99,047. Divided and this application filed Mar. 16, 1928. Serial No. 262,180. 7 Claims. (Cl. 200—24.)



1. In a circuit closer, a commutator having concentric rows of segments and a rotatable member cooperating therewith including interconnected bushings, contact rings positioned on said bushings, brush arm carrying rings adjustable circumferentially of said contact rings, brush arms carried by the respective adjustable rings, and means for locking said adjustable rings in the desired setting.

1,786,392. HOLDER FOR CONFECTIONERY. EDWARD F. KEMP, Somerville, Mass. Filed Dec. 10, 1928. Serial No. 324,970. 3 Claims. (Cl. 312—42.)



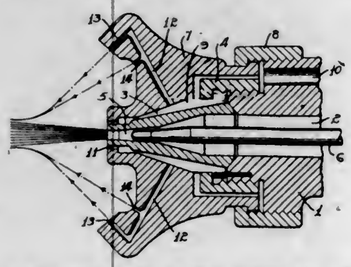
1. A holder for packages of confectionery having twisted end extensions, said holder comprising a base provided

with a box-like superstructure having front and back walls of stiff sheet material formed with several pairs of oppositely disposed narrow slots adapted to be occupied by the twisted end extensions of vertical files of packages stacked upon said base between said walls and whose opposite side edges are adapted to engage said twisted end extensions so as to hold said packages in vertical alinement, the slots of each of said pairs being enlarged at their lower ends to provide exits for the lowermost package of its file at opposite sides of said superstructure.

1,786,393. METHOD OF PRODUCING FERROMOLYBDENUM AND FERROTUNGSTEN. PAUL SCHWARZKOPF, Reutte, Austria. Filed Apr. 29, 1929, Serial No. 359,181, and in Germany May 22, 1926. 4 Claims. (Cl. 75—45.)

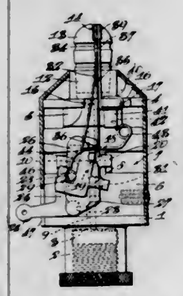
1. A method of producing ferromolybdenum or ferrotungsten consisting in evaporating molybdic acid or tungstic acid of very fine grain and maximum surface development from molten ore and introducing the acid vapors directly into a bath of iron containing a reducing agent, as set forth.

1,786,394. AIR BRUSH. ROBERT W. TRACY, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 10, 1929. Serial No. 331,570. 2 Claims. (Cl. 91—45.)



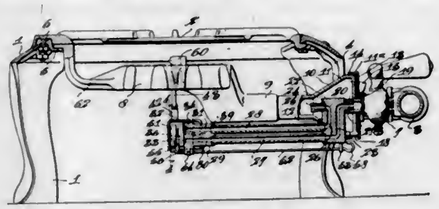
1. An air brush provided with means for discharging a material laden stream by the use of air under pressure, and means for discharging supplemental air jets against opposite sides of the main stream to flatten the same, the supplemental jet discharge means at each side of the material stream including a plurality of outlets which are in a common plane with the material stream and which converge at such an angle that the streams emitted thereby intersect and form a single fan-shaped air stream before impinging against the main stream.

1,786,395. SAFETY APPLIANCE FOR GAS BURNERS. FRANCIS J. CANCIANICH, Newport News, Va. Filed Dec. 9, 1929. Serial No. 412,885. 12 Claims. (Cl. 67—116.)



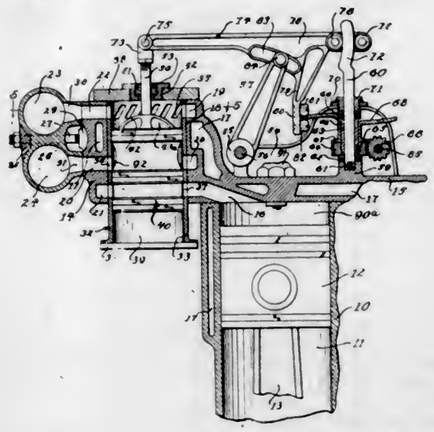
2. In gas burners, a pillar having a tip holder and a member for mounting the burner on a gas supply fixture, said pillar having a vertically disposed flat face with gas ports and ducts leading from said ports to the supply fixture and to the tip holder respectively; a slide valve having a flat face to engage said vertically disposed flat face and having a port to control gas passage between said gas ports; gravity actuated means to hold said valve in gas-tight contact with said flat face; a thermostat device associated with the valve for holding said valve in the open position when the gas issuing from the burner is ignited and to move said valve to and hold it in the closed position when the flame is extinguished, and manually operated means to move the valve to the open position initially, and another means operating to cause said valve to be moved to the closed position should said thermostat device become broken or disconnected.

1,786,396. GAS BURNER. FRANCIS J. CANCIANICH, Newport News, Va. Filed Dec. 9, 1929. Serial No. 412,886. 10 Claims. (Cl. 158—117.1.)



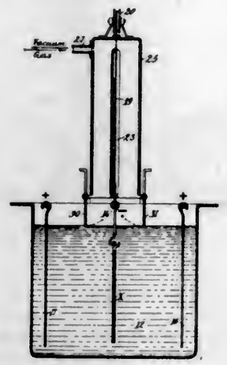
1. In heating burners, a support, a gas supply pipe with a stop cock, and a burner mounted on said support, said burner including a mixing tube having an entrant end, a gas pipe from the stop cock, a shut-off valve, a thermostatic device located adjacent the burner proper so as to be effected by the heat from the burner to actuate said shut-off valve, means conducting gas from said gas pipe to said shut-off valve, means conducting gas from said shut-off valve and delivering it into said mixing tube, said entrant end having an air admission opening, an air valve fitted over said opening and having a port cooperating therewith, means in virtue of which said air valve may be moved to close said air admission opening and means operated by said air valve for opening said shut-off valve.

1,786,397. VALVE MECHANISM. WILLIAM KARL GOSSE, Chicago, Ill. Filed Aug. 16, 1928. Serial No. 300,089. 14 Claims. (Cl. 123—188.)



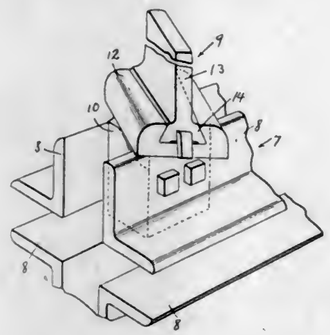
1. A valve construction for an internal combustion engine including a valve member adapted to control communication between the intake and exhaust manifolds and the cylinder of an internal combustion engine, means for motivating said valve member including a lever, a link member connecting said lever and said valve member, means for actuating said lever, and means for guiding said lever whereby said link member will be moved in a substantially straight line.

1,786,398. PROTECTIVE METAL COATING AND PROCESS AND APPARATUS FOR PRODUCING THE SAME. COLIN G. FINK, New York, N. Y., and CHARLES H. ELDRIDGE, Metuchen, N. J., assignors to Chemical Treatment Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 12, 1925, Serial No. 49,751. Renewed May 6, 1930. 2 Claims. (Cl. 204—1.)



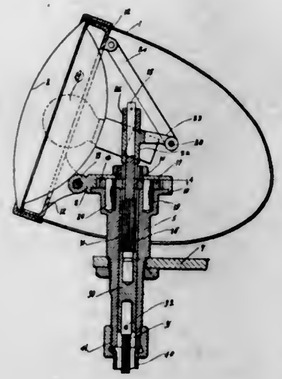
1. The process of producing protective and resistant coatings, comprising electrodepositing a relatively thin plate of the coating metal on an article, exposing the plate to gas at sub-atmospheric pressure, and resuming plating, thereby to produce a coating free from so-called "pin-hole" defects.

1,786,399. PADDLE ORE-WASHING MACHINE. GEORGE E. KRIDER, Duncansville, Pa., assignor to McLanahan-Stone Machine Company, Hollidaysburg, Pa., a Corporation of Pennsylvania. Filed Apr. 19, 1930. Serial No. 445,717. 3 Claims. (Cl. 259—103.)



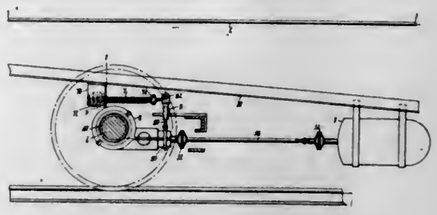
1. In a structure of the class described, in combination, a rotary shaft embodying a pair of spaced parallel angle irons, a paddle, said paddle including a shank removably bolted between said irons, said shank having a keeper embodying a head provided with a keyway, and a renewable blade having a key removably fitted in said keyway, together with a retaining tongue formed integrally with said key and bendable against said head for maintaining said blade in position.

1,786,400. VEHICLE LIGHT. CYRUS B. KURTZ, Lakewood, Ohio, assignor to The National Appliance Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 21, 1928, Serial No. 255,913. Renewed Oct. 27, 1930. 11 Claims. (Cl. 240—61.)



1. A movable lamp for vehicles or the like comprising a tubular support adapted to be attached to a portion of a vehicle, a lamp attached to said support by a pivot, a rod reciprocable in said support, an arm projecting from said rod, a friction sleeve on said rod above said arm, a pair of links attached to said arm and to said lamp at a point above said pivot and straddling said friction sleeve, and resilient means pressing at least one of said links toward said sleeve.

1,786,401. TRAIN-LIGHTING APPARATUS. WILLIAM ALEXANDER PITT, Montreal, Quebec, Canada, assignor of forty-nine per cent to Frank Summer, New York, N. Y. Filed Mar. 6, 1929. Serial No. 344,875. 5 Claims. (Cl. 105—109.)

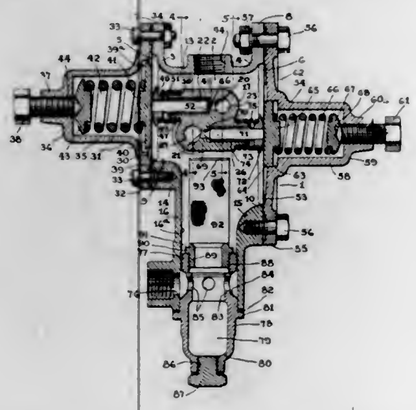


1. In a train lighting apparatus the combination of a generator mounted on the car body, a transmission gear drive for rotatively connecting the car axle to the generator, and suspension means for the drive comprising a leaf spring pivotally mounted on a bracket on the car body and connected at its flexible end with the drive.

1,786,402. REGULATOR. PHILIP SHERMAN RUSSEL, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 10, 1929. Serial No. 331,655. 7 Claims. (Cl. 137—153.)

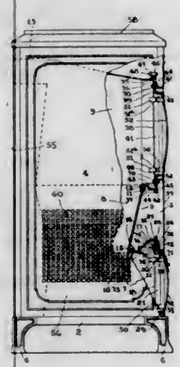
1. A regulator comprising a hollow casing having an internal chamber, an inlet to said chamber, a block member in said chamber, means supporting said member in said casing, a plurality of outlet passages extending through said member and said supporting means, valve seats in said

passages, valves in said passages cooperable with said seats and normally seated thereon, one of said valves sealing its passage, means to permit a minimum flow through another



of said passages when its valve is seated, and means responsive to the pressure in said chamber to control the opening and closing of said valves.

1,786,403. HEATING APPARATUS. MAX M. SUPPES, Elyria, Ohio, assignor to The Fox Furnace Company, Elyria, Ohio, a Corporation of Ohio. Filed Dec. 24, 1928. Serial No. 328,175. 9 Claims. (Cl. 126—67.)



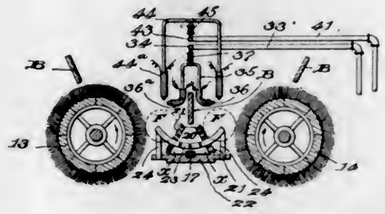
1. A heating apparatus comprising a base member, a heating stove supported upon said base member, a casing supported on said base member and enclosing said heating stove, said stove having a door opening, said casing having an opening registering with said door opening, a closure member for said door opening, said casing being substantially flush with said closure member, said casing carrying inwardly extending members at its opening, and means securing certain of said inwardly extending members to said stove to rigidly support said casing at said casing opening.

1,786,404. DERIVATIVE OF GLYCOL. HOYLANDE DENUNE YOUNG, Chicago, Ill. Filed Oct. 31, 1927. Serial No. 230,165. 19 Claims. (Cl. 260—103.)

1. A composition of matter comprising an ester of a polycarboxylic acid in which the hydrogen of at least one of the carboxyl groups is replaced by an acyl-oxy-alkyl radical and the hydrogen of another carboxyl group is replaced by a monovalent hydrocarbon radical.

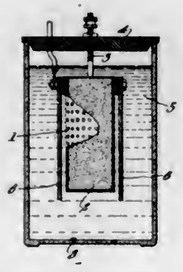
13. A composition of matter comprising beta-acetyl-oxy-ethyl butyl phathalate.

1,786,405. APPARATUS FOR TREATING FRUIT AND THE LIKE. ERNEST M. BROGDEN, Pomona, Calif., assignor to Brogdex Company, Los Angeles, Calif., a Corporation of Florida. Original application filed July 23, 1923, Serial No. 653,227, now Patent No. 1,671,924. Divided and this application filed May 19, 1928. Serial No. 279,056. 10 Claims. (Cl. 146—202.)



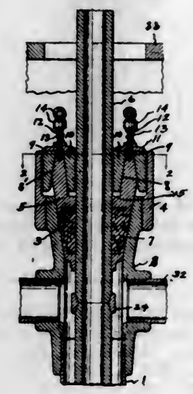
1. Apparatus for treating fruit comprising the combination, with a rotary cylindrical rubbing roll, of an endless traveling conveyor device mounted to travel with a flight thereof substantially parallel to the roll axis and having members adapted to cooperate with said rubbing roll in supporting fruit to be treated and operative to advance fruit longitudinally of said roll, and fruit-retarding means mounted to project into the path of travel of fruit so advanced and adapted to exert pressure on the fruit below the top thereof.

1,786,406. GALVANIC CELL. GEORGE W. HEISE, Bayside, N. Y., and CLARENCE W. BROKATE, Danbury, Ohio, assignors to National Carbon Company, Inc., a Corporation of New York. Filed Feb. 16, 1923. Serial No. 619,464. 2 Claims. (Cl. 136—115.)



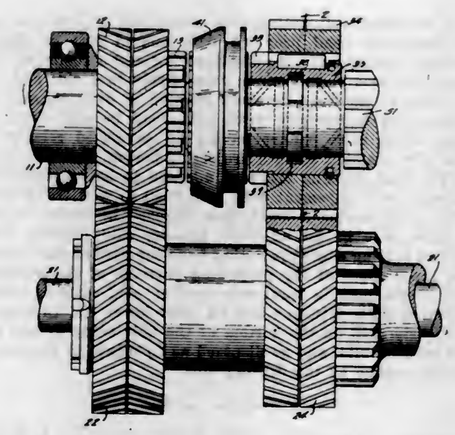
1. A galvanic cell comprising a container, a metallic anode, a depolarizing oxid cathode, and caustic electrolyte in operative relation in said container, and an area exposed to the electrolyte and having a rough surface favoring crystallization of compounds of the anode metal.

1,786,407. CASING HEAD. GRANVILLE A. HUMASON, Houston, Tex., assignor of one-half to J. A. Logan, Harris County, Tex. Filed Feb. 16, 1929. Serial No. 340,492. 7 Claims. (Cl. 166—14.)



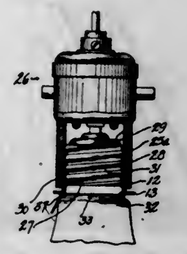
1. In well drilling apparatus having a casing set in a well bore, and a drill stem within said casing; a spider carried by the casing having a seat, sealing means carried by said stem adapted to seat against said seat, upon the lowering of said means relative to the casing, to form a seal between said stem and casing, said sealing means including spider engaging slips and stem engaging slips.

1,786,408. TRANSMISSION DAMPENER. CARL DAVID PETERSON, Syracuse, N. Y. Filed Feb. 24, 1930. Serial No. 430,843. 2 Claims. (Cl. 74—6.)



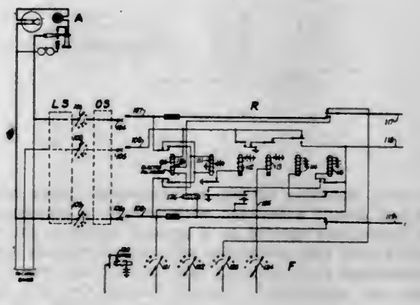
1. A herring-bone gear provided with a bore slidable and rotatable upon a shaft, the gear provided with an annular slot cut in its bore, a spring ring within the bore gripping the shaft.

1,786,409. SAFETY LAMP LOCK. ROBERT A. MOORE, New York, N. Y., assignor to Multiple Selling Corporation, New York, N. Y. Filed Jan. 29, 1929. Serial No. 335,786. 11 Claims. (Cl. 173—356.)



1. A lamp locking device, including, in combination, male and female interengaging screw members, a support mounted on the male member, a locking member extending between the circular walls of the interengaging members, said locking member having edges lying along an angle with the tangent to the male member to bite into the said circular walls on attempting to unscrew the male member, means on the support movably carrying the locking member for withdrawal from between the said circular walls, and other means to withdraw the locking member to permit the male member to be unscrewed.

1,786,410. TELEPHONE SYSTEM. RUDOLPH F. STEHLIK, Chicago, Ill., assignor to Reserve Holding Company, Kansas City, Mo., a Corporation of Delaware. Filed Aug. 27, 1927, Serial No. 215,793. Renewed Apr. 9, 1930. 39 Claims. (Cl. 179—27.)

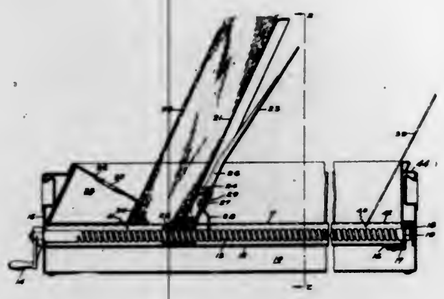


34. In combination, registering apparatus arranged to register a pair of digits, and a sender operable under the control of said registering apparatus to send two groups of impulses simultaneously corresponding, respectively, to the registered digits.

1,786,411. RECORD TRAY. ROSS R. WEST, San Francisco, Calif. Filed Jan. 23, 1928. Serial No. 248,712. 9 Claims. (Cl. 129—26.)

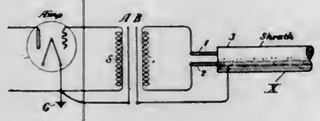
1. A device of the class described, a tray for receiving records, a follower within the tray, a threaded rod

mounted on the tray for traversing the follower, and another rod removably mounted on the tray for retaining record cards within the same.



3. A device of the class described comprising a tray for receiving records, a follower within said tray, and means adapted for moving the same along the tray, said means including a member pivotally mounted upon the follower and operable for disengaging the follower from the remainder of said moving means for movement of the follower independently of said remaining means.

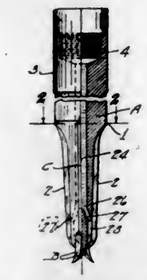
1,786,412. SHIELDING ARRANGEMENT. GEORGE CRISSON, East Orange, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Nov. 20, 1929. Serial No. 408,581. 4 Claims. (Cl. 178—44.)



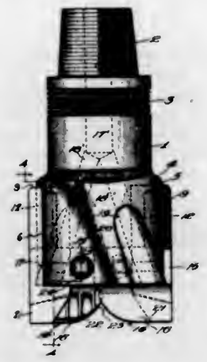
1. In a signaling system, a translating means having its input circuit associated with ground, a transmission path inductively related to a ground having a potential different from that associated with the translating means, a transformer for connecting said path to said translating means, and conductively separate shields for said transformer, one connected to the ground associated with said translating device and the other connected directly to the ground associated with said transmitting path.

1,786,413. WELL-DRILLING TOOL. CHARLES B. KENNEDYE, University City, Mo., assignor to The Kennedye Corporation, Wilmington, Del., a Corporation of Delaware. Filed Feb. 2, 1925. Serial No. 6,306. 1 Claim. (Cl. 255—61.)

A well-drilling tool, including, in combination, a head having a point of greatest cross section intermediate its ends and longitudinally decreasing in cross section from that point to its lower end, and sinuous in surface contour in simulation of the tail of a fish, slots transversely disposed at the lower end of said head, drilling elements removably mounted in said slots, elongated slots in the side of said head, reamers adapted to be removably mounted in the elongated slots having surfaces projecting beyond the sides of said head, said reamers interlocking with the drilling elements to hold same in place.



1,786,414. ROTARY WELL-DRILLING TOOL. CHARLES B. KENNEDYE, University City, Mo., assignor to The Kennedye Corporation, Wilmington, Del., a Corporation of Delaware. Filed Mar. 3, 1927. Serial No. 172,248. 2 Claims. (Cl. 255—61.)

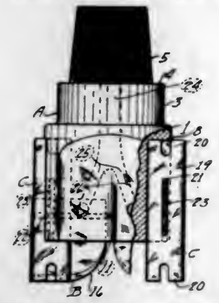


1. A rotary well drilling tool comprising in combination a supporting head provided with spaced sets of slots, each set comprising a longitudinal slot and a communicating transverse slot openings respectively to a side and to the base of the head, reamers adapted to have removable cooperative engagement with said head in said longitudinal slots, each reamer having an elongated relatively thin side reaming surface projecting beyond the side wall of the head, drilling bits also adapted to have removable cooperative engagement with said head in said transverse slots, each having a main face disposed in contact with a main face of an adjacent reamer, said drilling bits having cutting edges projecting from the base of said head, the inner edges of the projecting portions of the drilling bits overlapping in transverse section, said reamers being provided with cutting edges on their lower end to simultaneously drill on the bottom of the hole being drilled by the drilling bits, and so disposed as to rotate in the same circular plane as the drilling bits.

1,786,415. WELL-DRILLING TOOL. CHARLES B. KENNEDYE, University City, Mo., assignor to The Kennedye Corporation, Wilmington, Del., a Corporation of Delaware. Continuation of application Serial No. 31,058, filed May 18, 1925. This application filed Nov. 9, 1929. Serial No. 406,176. 24 Claims. (Cl. 255—61.)

1. A rotary well drilling tool, including in combination, a head having end slots, primary drilling bits re-

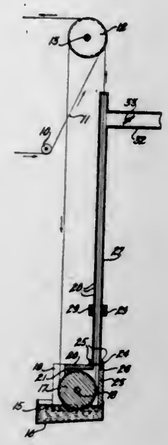
movably carried in said end slots and extending outwardly beyond the side of the head to cut a hole of predetermined size, longitudinal slots in the sides of the head communicating with the end slots, elongated reaming bits each having an elongated reaming side projecting beyond



the side of the head and lying in a plane parallel to the plane of the head removably mounted in the longitudinal slots, said reaming bits being disposed immediately adjacent the primary drilling bits, and having cutting edges on their lower ends acting as secondary drilling bits.

1,786,416. APPARATUS FOR TREATING MATERIALS. FRANK MARTINDELL, Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 31, 1927, Serial No. 164,894. Renewed Mar. 17, 1930. 7 Claims. (Cl. 91—55.)

1. In a wire enameling apparatus, a vessel for containing an insulating composition, a chamber for treating the composition upon a wire, and a sealing unit associated with the chamber comprising a rotatable member extending into the composition, around which a wire may be passed to be coated with the composition and guided into the



chamber, and a sealing member secured in close proximity to the rotatable member, the rotatable member conveying a quantity of the composition upon its surface when rotated and thereby sealing the space between the last mentioned members against the entrance of air.

Patents Nos. 1,786,417 to 1,787,423

THE OFFICIAL GAZETTE

OF THE

United States Patent Office

Vol. 401—No. 5 TUESDAY, DECEMBER 30, 1930 Price—$10 per year

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscription, $10.00 per annum; including annual index, $11.50; single numbers, 25 cents each.

PRINTED COPIES OF PATENTS are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or concerning TRADE-MARKS, PRINTS, and LABELS will be sent without cost on request to the Commissioner of Patents, Washington, D. C.

CONTENTS

	Page
Issue of December 30, 1930	917
Notices of Cancellation	917
Adjudicated Patents	917
Applications Under Examination	918
Commissioner's Decisions—	
Ex parte Merica and Kayes	919
Decisions of the Board of Appeals—	
Ex parte Dixon	919
Decisions of the U. S. Courts—	
Lektophone Corporation v. The Rola Company and Miller Brothers Company v. Lektophone Corporation	920
Alemite Mfg. Corp. et al. v. Rogers Products Co., Inc.	921
Voices, Inc., v. Up-To-Date Mfg. Co., Inc.	923
Patent Suits	924
Important Information	926
Notice Regarding Payment of Fees	926
Drawings	926
Examiners' Letters and Amendments	926
Disbarred Attorneys	626
Trade-Marks Published (236 Applications)	927
Trade-Mark Registrations Granted	957
Trade-Mark Registrations Renewed	966
Labels	966
Prints	968
Reissues	969
Designs	970
Patents Granted	979

Issue of December 30, 1930

Trade-Marks	214—No.	278,692 to No.	278,905, inclusive.
T. M. Renewals	13		
Labels	63—No.	38,411 to No.	38,473, inclusive.
Prints	22—No.	12,920 to No.	12,941, inclusive.
Reissues	5—No.	17,912 to No.	17,916, inclusive.
Designs	40—No.	82,926 to No.	82,965, inclusive.
Patents	1,007—No.	1,786,417 to No.	1,787,423, inclusive.
Total	1,364		

Notices of Cancellation

U. S. Patent Office, *Washington, Dec. 11, 1930.*

The Jell-X-Cell Co., its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Jesse C. Stewart Co., 568–580 South Aiken Avenue, Pittsburgh, Pennsylvania, to effect the cancellation of the trade-mark registration of The Jell-X-Cell Co., of 1360 Allison Avenue, Los Angeles, Calif., No. 217,892, dated September 14, 1926, and the notice of such proceeding sent by registered mail to The Jell-X-Cell Co. at the said address having been returned by the post office as undeliverable, notice is hereby given that unless The Jell-X-Cell Co., its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

U. S. Patent Office, *Washington, Dec. 9, 1930.*

G. C. Mitchell Co., Inc., its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Kranish Bros., Inc., of 10 West Thirty-seventh Street, New York, N. Y., to effect the cancellation of the trade-mark registration of G. C. Mitchell Co., Inc., No. 238,289, dated January 31, 1928, and the notice of such proceeding sent by registered mail to the said G. C. Mitchell Co., Inc., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said G. C. Mitchell Co., Inc., its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

U. S. Patent Office, *Washington, Dec. 8, 1930.*

William M. Grant & Son, their assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Peck & Peck, 587 Fifth Avenue, New York, N. Y., to effect the cancellation of the trade-mark registration of William M. Grant & Son, of 31–33 South Market Street, Johnstown, N. Y., No. 170,123, dated July 10, 1923, and the notice of such proceeding sent by registered mail to the said William M. Grant & Son, at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said William M. Grant & Son, their assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Adjudicated Patents

(D. C. R. I.) Ornstein patent, No. 1,142,361, for process of antisepticising water, claims 4, 5, 6, and 10 *Held* valid and infringed. *Electro Bleaching Gas Co.* v. *Pascoag Water Co.*, 43 F.(2d) 844.

(C. C. A. Minn.) Howe patent, No. 1,551,515, for automatic train-control system, claims 9, 10, 23, 30, 34, 43, 48, 56, 57, and 58 *Held* valid and infringed. *General Ry. Signal Co.* v. *Great Northern Ry. Co.*, 43 F.(2d) 790.

Condition of Applications Under Examination at Close of Business December 19, 1930

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 107,627; Trade-Mark Division, 1,298. Oldest new case, Mar. 14, 1930; oldest amended, Mar. 14, 1930.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	May 12	May 24	1,010
126	2. HADEN, C. F., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Velocipedes.	Apr. 22	Apr. 24	1,707
331	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	May 10	Sept. 17	1,185
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	May 8	May 8	1,211
108*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	Apr. 25	May 1	1,231
318	6. LEWERS, A. M., Carbon Chemistry	Apr. 4	Apr. 5	2,390
106	7. JARBOE, C. G., Optics; Photography	Mar. 26	Mar. 25	2,435
133	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	Apr. 28	May 5	1,648
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	May 19	May 26	1,592
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	May 20	June 4	1,442
148*	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	May 29	June 9	957
380	12. HENRY, C. C., Machine Elements	Apr. 23	Apr. 24	1,471
154*	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling	May 15	May 13	1,306
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	Apr. 24	May 24	1,383
329	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Mar. 26	Mar. 26	2,705
242*	16. SPENCER, C. J., Telegraphy; Telephony	May 22	May 31	1,126
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Apr. 1	Apr. 8	1,640
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	May 8	May 9	1,414
236	19. KENNEDY, A. R., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	Mar. 21	Mar. 24	2,554
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	Apr. 23	May 8	1,364
212	21. THOMPSON, T. J., Textiles; Cloth Finishing	May 13	June 14	886
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Apr. 29	May 13	1,507
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Apr. 7	Apr. 2	1,123
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Apr. 3	Apr. 22	1,113
202*	25. BLAKELEY, C. F., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Apr. 19	Apr. 19	1,623
228*	26. HODGES, J. S., Electricity, Generation; Motive Power	May 1	Apr. 30	1,102
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Apr. 24	Apr. 24	1,340
225	28. BENSON, A. R., Internal-Combustion Engines	Apr. 2	Apr. 1	2,068
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	July 24	July 28	557
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	May 19	Sept. 22	969
312	31. HOLMES, W. N., Distillation; Gas, Heating and Illuminating; Mineral Oils	Mar. 19	Mar. 19	2,733
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	June 23	June 25	1,392
152	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	May 26	May 26	2,661
304	34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	June 20	June 19	918
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	Aug. 14	Aug. 29	1,190
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	Apr. 15	Apr. 16	2,274
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	May 1	May 1	1,921
145	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Apr. 10	Apr. 10	1,118
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Apr. 26	Apr. 30	1,742
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	Mar. 24	May 5	3,303
125	41. WHITNEY, M. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	May 15	May 22	1,086
223*	42. CUTTING, H. O., Electric Signaling	Apr. 22	Apr. 22	1,678
124*	43. NASH, P. N., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	May 1	May 3	1,780
253	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	Mar. 27	Mar. 28	2,215
379	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	Mar. 26	Mar. 29	2,471
233	46. TAYLOR, M., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	May 5	May 10	1,325
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	May 3	May 16	2,337
212*	48. ROEPKE, O. B., Electricity, General Applications	Apr. 19	Apr. 19	1,295
239	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	May 30	Aug. 4	1,524
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	Mar. 19	Mar. 19	2,865
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	Apr. 5	Apr. 1	2,398
144	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	May 19	May 19	1,919
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	July 7	July 9	1,005
241	54. WAITE, W. E., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	Mar. 14	Mar. 14	2,858
102	55. BOWEN, S. T., {Bread, Pastry, and Confection Making; Cutlery	Oct. 7	Oct. 7	390
	{Designs	Nov. 21	Dec. 5	339
309	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	Apr. 2	Apr. 3	2,295
257*	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	May 9	May 14	992
270*	58. DOWELL, E. F., Abrading; Typewriting	Mar. 15	Mar. 15	1,593
315	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Cement and Lime; Hides, Skins, and Leather; Fuel	May 7	May 10	1,818
213*	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	Mar. 22	Mar. 24	2,302
269	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Horology; Time-Controlling Apparatus.	Mar. 20	Mar. 20	2,581
245*	62 COCHRAN, W. W., Toys; Amusement Devices; Furniture; Baggage; Package and Article Carriers	Mar. 19	Mar. 18	2,716
300	63. WINKELSTEIN, A. H., Bleaching and Dyeing; Explosive, Pyrotechnic, and Match Compositions; Oils, Fats, and Glue; Preserving; Sugar, Starch, and Carbohydrates.	Mar. 20	Mar. 24	2,546
163	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND, {Trade-Marks	Nov. 19	Dec. 5	1,150
	{Labels and Prints	Nov. 19	Dec. 5	148

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES

Commissioner's Decision

EX PARTE MERICA AND KAYES

Decided September 13, 1930

1. APPLICATION—FINAL REJECTION—PETITION.

Where, after an appeal from a final rejection, a petition is filed that that final rejection be vacated but that petition is accompanied by neither amendment nor argument, *Held* that the final rejection can not be withdrawn since such action would leave nothing for the Examiner to consider.

2. SAME—SAME—REOPENING.

Where a final rejection was entered in response to an argument as to the process claims and a slight amendment to the article claims and it does not appear from the petition to vacate the final rejection that applicant desires to amend the article claims but to amend the process claims, *Held* that no ground is shown for reopening the case.

ON PETITION.

CARBON-FREE METALS

Messrs. Byrnes, Stebbins & Parmelee for the applicant.

ROBERTSON, *Commissioner:*

Applicants petition that they be permitted to withdraw the appeal in this case on the ground that the final rejection of certain of the claims was premature.

It appears that the claims were finally rejected on the second action, no amendment whatever having been made to the process claims and the Examiner regarding the amendments to the article claims as not avoiding the grounds of rejection previously stated.

That final rejection was on January 9, 1929, appeal was filed July 6, 1929, and the present petition was not filed until August 22, 1930.

It is to be noted that no amendment whatever has been presented, so that if the finality of the rejection be set aside and appeal withdrawn there would be nothing responsive to the rejection of January 9, 1929. Furthermore no statement is made that applicants desire to further amend the article claims, as to which the making of the rejection final is said to have been premature, but desire to amend the process claims which have never been amended since they were originally presented. Furthermore applicants were not forced to appeal, if in their opinion the final rejection was premature, since a petition to set aside that final rejection could have been filed at any time prior to July 9, 1929; but it was not filed until more than a year thereafter.

The only thing, according to the petition, that has been done since the appeal was taken was to present informally to the Examiner an amendment to the process claims. The idea seems to have been that if the Examiner would regard the amendment as rendering the process claims patentable the appeal could continue as to the article claims.

Clearly, in view of what has been above stated, no reason has been presented for now reopening this case for further action before the Examiner.

The petition is denied.

Decision of the Board of Appeals

EX PARTE DIXON

Decided April 5, 1929

PATENTABILITY—FORM OF CONTRACT—NOT WITHIN THE STATUTE.

Claims for a printed form comprising a promissory note in which a stated amount of money is to be paid at a definite place in installments, a proviso that all payments become due upon the default of anyone and a lien upon a piece of real estate with a space for the maker's signature at the bottom of the instrument *Held* not patentable, since the article involves no physical structure, and therefore does not come within the terms of the statute. (*Cincinnati Traction Company* v. *Pope*, 210 F. 443, 1914 C. D. 216, distinguished.)

[Affirmed by Court of Customs and Patent Appeals, see —— C. C. P. A. Patents —— O. G. ——.]

Before KINNAN, First Assistant Commissioner, RUCKMAN and LANDERS, Examiners in Chief

LANDERS, *Examiner in Chief:*

This is an appeal from the action of the Examiner finally rejecting claims 1 to 6, inclusive. Claim 1 is illustrative and is as follows:

1. An instrument of the character described bearing printed and written matter legalized by a statement of the place and date of execution and by the signature of a promisor in a designated space, said matter including a promissory note for payment of a stated sum of money at a specified time, and a lien upon a stated property as security for the payment of the amount for which the note is given; said lien being located between the body portion of the note and the space for the signing of the same.

The appeal has been withdrawn as to claim 6 and it will accordingly be dismissed as to this claim.

The claims are drawn to a printed form comprising a promissory note in which a stated amount of money is to be paid at a definite place in installments, a proviso whereby all the payments become due upon the default in payment of any particular installment and a lien upon a piece of real estate. A space for the maker's signature is provided at the bottom of the instrument.

The Examiner has not cited any prior art references but he holds the claims are not drawn to an art, machine, manufacture, or composition of matter within the meaning of section 4886, Revised Statutes. He regards the instrument as a form of contract which may not be given patent protection and cites

the decisions: *Ex parte Sheldon*, 1878 C. D. 44, and *In re Moeser*, 1906 C. D. 685, 27 App. D. C. 307, in support of his view.

It is our view that the instrument disclosed by appellant is only a particular form of contract and is unpatentable under the statute, if the reasoning in the decisions cited by the Examiner is sound. Appellant contends, however, that these decisions do not correctly state the law at the present time; that the term "manufacture" comprehends anything that is made by the hand of man and that his instrument clearly falls within this definition. He cites the case of *Cincinnati Traction Company* v. *Pope*, 210 F. 443, 1914 C. D. 216, in support of his contention.

In that case the court quoted counsel as saying that the transfer ticket had no physical characteristics which enabled it to be distinguished from any other transfer ticket or any other printed slip of paper and then observed that if this criticism is well taken the subject matter is not within the patent statute. In making that observation the court cited several decisions including *In re Moeser* relied upon by the Examiner. The decision then stated that the device of the patent clearly involved physical structure and the claims in themselves were in a proper sense limited to such structure; that the alleged patentable novelty did not reside in the arrangement of the printed text and that such text did not merely constitute a printed agreement. The decision further pointed out that the body of the ticket alone is good at one time and that the body and coupon are required for the other portion of the day. It then stated that there was no attempt merely to patent the form of contract.

We believe this decision on which appellant relies constitutes clear and convincing authority that the claims on appeal are not patentable. In appellant's device there is no essential physical characteristic that may be relied upon to confer patentability. The novelty resides in the specific form of contract disclosed by the printed matter. Appellant contends that since the claims state that the lien is located between the promissory note and the space for the signature there is a definite relative arrangement of parts in view of which the instrument may be regarded as something more than a mere contract. We see no patentable novelty in arranging the various provisos of the contract or agreement all above the space for the signature. It is the most usual thing to provide written instruments with a space at the bottom of the instrument for a signature.

In addition to the decisions referred to above attention is directed to the decision of the circuit court of appeals, second circuit, in the case of *Guthrie* v. *Curlett, et al.* 10 F.(2d) 725. We believe that appellant's claims are not drawn to a manufacture within the sense this term is used in the patent statute for the reasons stated in that decision.

The appeal is dismissed as to claim 6.

The decision of the Examiner is affirmed as to claims 1 to 5, inclusive.

Supreme Court of the United States

LEKTOPHONE CORPORATION *v.* THE ROLA COMPANY AND MILLER BROTHERS COMPANY *v.* LEKTOPHONE CORPORATION

Nos. 19 and 68. Decided December 8, 1930

PATENTS—INFRINGEMENT.

Hopkins Patent No. 1,271,529, for an "Acoustic Device" *Held* not infringed, if valid.

No. 19, on writ of certiorari to the Circuit Court of Appeals for the Ninth Circuit. Affirmed.

No. 68, on writ of certiorari to the Circuit Court of Appeals for the Third Circuit. Reversed.

Mr. William H. Davis for Lektophone Corporation.

Mr. Thomas G. Haight for The Rola Company.

Mr. Samuel E. Darby, Jr., for Miller Brothers Company.

Mr. Justice HOLMES delivered the opinion of the Court.

These are two suits brought by the Lektophone Corporation alleging the infringement of a patent. In the first named, No. 19, in the ninth circuit, the decision was for the defendant, 34 F.(2d) 764, affirming the decree of the district court, 27 F.(2d) 758, and declining to follow the third circuit's decision in *Lektophone Corporation* v. *Brandes Products Corporation*, 20 F.(2d) 155. A writ of certiorari was granted by this Court, 280 U. S. 551. Later, the second of the suits before us, No. 68, was brought in the third circuit, and the district court, in obedience to the precedent there, decided for the plaintiff, 37 F.(2d) 580. An appeal was taken to the circuit court of appeals. A writ of certiorari was granted by this Court without the formality of awaiting the result. 281 U. S. 713.

The patent is No. 1,271,529, granted July 2, 1918, to Hopkins, assignor, by mesne assignments, to the Lektophone Corporation; the original application having been filed July 14, 1913, in the time of the phonograph and before the days of radio, for an "Improvement in acoustic devices." The object is the—

> direct propagation, in free air, from a record or equivalent element subjected to the action of the original sound waves or vibrations, of self-sustaining sound waves substantially corresponding in intensity and amplitude, as well as in pitch or timbre, to the said original sound waves—

as distinguished from the then prevailing use of the sound box and horn. The device, as set forth in claim 8, comprised—

> a tympanum embodying a bodily movable, central conical portion, and an annular rim which encircles said conical portion and which is rigidly supported, said conical portion being freely exposed on all sides to unconfined air and being of sufficient area to produce self-sustaining sound waves in the surrounding air when vibrated.

On the question what is a sufficient area the patent says,—

> If satisfactory regeneration by sounds from a record or other sound-vibrated element is to be had, the whole diameter of the tympanum, that is, the diameter of the aperture in the rings [that rigidly clamp the edges of the tympanum] should exceed nine inches. . . . The diameter of the base of said conical portion should be at least eight-tenths of the diameter of the said aperture—

with further details. Paper is pronounced a satisfactory material, the requirement being that it should be crisp and strong and have considerable rigidity within itself.

The state of the art at and before 1913 will be found in the cases already cited, two excellent discussions by Thacher, D. J., in *Lektophone Corporation* v. *Western Electric Co.*, 20 F.(2d) 150 and Hickenlooper, D. J., in *Lektophone Corporation* v. *Crosley Radio Corporation*, southern district of Ohio, not reported, and in the English case of *Lektophone Corporation* v. *S. G. Brown, Ltd.*, Ch. Div., January 23, 1929; court of appeals, July 12, 1929. It is unnecessary to repeat, because it is conceded that the conical tympanum and material were known in connection with a sound box for the phonograph of which Hopkins was thinking, as shown by the words "from a record" quoted from the patent. The effect of increasing the size of the cone also was known. The contribution of Hopkins, if he made one, as held in several cases in the lower courts and abroad, was to combine abandoning the sound box, determining the size of the cone deemed by him most suitable to reproduce the sounds communicated to it by vibration, and tightly gripping and rigidly supporting the outer edge of the cone between two rings. A result claimed for the rigid support, although seemingly not thought of at the time, is to avoid interfering sounds, "blasting" and rattling, that were made when the edge of the cone was loose. As said by Hickenlooper, J.,—

> All of these elements in combination went to make up the novelty of his alleged invention. . . . To the size, shape and proportion thus disclosed the patentee is limited by the prior art and the very essence of his invention.

If the patent was valid it must be confined narrowly to the combination described.

In No. 19 the defendant's device is very like that of the plaintiff but differs in at least one particular. The plaintiff's cone, of crisp, strong, more or less rigid material, is continued in one piece under the rings that give it a rigid support. Its tympanum includes this outer edge. On the other hand, as said by Judge Thacher about another contrivance—

> the defendant's structure, although it comprises a tympanum support having a circular aperture, does not comprise a tympanum having its outer edge rigidly mounted on said support in said aperture within the meaning of claim 4. Nor does it comprise an annular rim which encircles the conical portion of the tympanum within the meaning of claim 8. (*Lektophone Corporation* v. *Western Electric Co.*, 20 F.(2d) 150, 154.)

The defendant's tympanum is only the paper cone, distinct from the rim. The rim is made of limp leather. In view of the importance attached to this element in the plaintiff's patent it is impossible to say that it is infringed. To quote again from the last cited case, "to hold that the defendant's device comprises 'a tympanum rigidly supported at its periphery' within the meaning of the claims is to construe the claims contrary to the plain import of their terms;" and the judge refers to experiments that showed the difference in function of the two devices. *Ibid.* There are other questions that would have to be answered before the plaintiff could prevail, such as the difference in size, argued in this case 27 F. (2d) 758, 760; s. c. on appeal, 34 F. (2d) 764, 773; the size being regarded by Hopkins as of the essence of his invention. But we think the matter too plain to need more words. The same conclusion applies to the second case where the rim is made of cloth.

Decree in No. 19 affirmed.

Decree in No. 68 reversed.

The Chief Justice took no part in the decision of these cases.

U. S. Circuit Court of Appeals—Third Circuit

ALEMITE MFG. CORP. ET AL. *v.* ROGERS PRODUCTS CO., INC.

No. 4,058. Decided January 23, 1930

[42 F.(2d) 648]

PATENTABILITY—GREASE GUNS.

The Nelson patent for a grease gun, claim 2 *Held* valid, since, while the elements of the combination are old, the combination produces such a new and useful result as clearly stamps it with the merit of invention.

APPEAL from the District Court of the United States for the District of New Jersey; Clark, judge.

Patent infringement suit by the Alemite Manufacturing Corporation and another against the Rogers Products Company, Incorporated. From a decree dismissing their bill, complainants appeal. Decree reversed, and bill reinstated.

Messrs. Williams, Bradbury, McCaleb & Hinkle, and *Messrs. Fish, Richardson & Neave*. (*Mr. Lynn A. Williams, Mr. Stephen H. Philbin*, and *Mr. Benjamin F. Wupper* of counsel) for the appellants.

Messrs. Dean, Fairbank, Obrieght & Hirsch, (*Mr. Clair W. Fairbank* and *Mr. George C. Dean* of counsel), for the appellee.

Before BUFFINGTON, Circuit Judge, and THOMSON and AVIS, District Judges

THOMSON, *Dis. J.:*

This case involves the question of validity and infringement of claim 2 of Patent No. 1,377,023, of Bernard S. Nelson, for which a patent issued May 3, 1921. The invention relates to lubricating devices, and more especially to that class of articles known in the trade as "grease guns," which are used for the purpose of quickly and easily supplying a regulated quantity of lubricant to parts of automobiles and other mechanism receiving periodic lubrication. The object of the invention was to provide a device of the character described, which was well balanced, easily handled and manipulated, readily assembled and taken apart for inspection, avoiding the waste of lubricant while in use and the cost of manufacture reduced to a minimum.

Claim 2, the only one in suit, is as follows:

> A lubricating device comprising a cylinder having a bore and inlet port and a discharge passage, a plunger reciprocating within said bore, a lubricant receptacle attached to and depending from said cylinder and having its interior communicating with said bore through said inlet port, a spring actuated piston within said receptacle for feeding the lubricant within the receptacle through said inlet port into said bore of the cylinder, means for locking said piston against movement in the said receptacle, and means connected to said plunger and cylinder for reciprocating said plunger within the bore to withdraw the lubricant from said receptacle into said bore and eject the lubricant from the bore through the discharge passage.

The defendant company denied validity by reason of anticipation and also denied infringement. After hearing, the court below dismissed the bill, and from the decree so entered this appeal is taken.

Confessedly, all the elements entering into this device are old and well-known, but it is claimed by the plaintiff that in combination they form a new and useful invention.

Prior to 1918, one Gullborg invented, and through the Alemite Die-Casting Company, put upon the market, what is known as the Alemite system of automobile lubrication, which rapidly displaced all other methods and was very generally installed as factory equipment. Gullborg's invention was covered by patent. The Alemite system, as made in 1918, and largely as made and sold at the present time, comprises a grease gun—a receptacle from which grease may be discharged under pressure—a conduit and coupling attached to the grease gun, and certain lubrication-receiving fittings. This device was sold in great quantities, and at the time of the application for a patent by Nelson, in 1920, was the standard equipment on several makes of cars. Under this Alemite system, automobile owners largely lubricated their own machines, and this screw-type device served the purpose well, as it could develop pressure in the neighborhood of from 500 to 650 pounds per square inch. That device was so far superior to the former methods of lubrication (grease cups, which had to be filled with finger or ladle) that it immediately displaced them.

Experience, however, showed that certain bearings of an automobile would, after a time, become caked or frozen, which was the result of the packing of dirt and grit in the bearings. The pressure developed by the ordinary screw-type compressor was found not sufficient to remove this caked material, and this required the bearing to be taken completely apart and cleaned with gasoline or other means. It was an important problem how to dislodge this caked lubricant, which had become frozen. Different methods were employed, but without much success.

In 1921, one Shere invented a grease gun, which was so constructed that an extremely high pressure, necessary to dislodge the caked material in tight or frozen bearings, could be obtained. His idea was brought to the attention of the Harshaw Corporation, a patent-holding company, under whose patents the Gat Gun Lubricating Corporation held an exclusive license. During the prosecution of the application for a patent filed by Shere, the Patent Office cited the Nelson patent as a reference, and it was found that this patent anticipated and claimed the essential features of the Shere gat gun. The result was that the Shere Metal Corporation, predecessor of the Gat Gun Lubricating Corporation purchased the Nelson patent. The Shere grease gun, which embodied the Nelson invention, formed the basis of a most flourishing business. The device was marketed under the trade name "Gat Gun" and was far superior to anything then on the market for use by lubricating stations, garages, and others. The evidence shows that 74,000 of these devices were sold by the Gat Gun Lubricating Corporation, which forced the Alemite Corporation to obtain a license under the Nelson patent to manufacture and sell this greatly-improved grease compressor, which license it obtained. Since 1928, the Alemite Manufacturing Corporation, manufactured the Gat Gun compressors, paying royalties to the Gat Gun Lubricating Corporation.

By stipulation of record, defendant admits its manufacture and sale of the "ever ready gun," as shown in the drawing accompanying the stipulation. This grease gun differs from plaintiff's device, namely, in the type of means used to lock the piston against movement in the receptacle, and in the kind of lever used to reciprocate the plunger.

In answer to the position of the defendant that there was no such invention in the device as justified the grant of the patent in suit, counsel for appellee made this statement:

> A hand grease gun having a high pressure cylinder and plunger located at right angles to one end of a detachable grease receptacle and provided with a lever connected to *said* plunger and *cylinder* for delivering a man's pressure producing power to said plunger and which, therefore, lies parallel to the receptacle which, in turn, has a spring pressed piston and lock to keep the plunger cylinder primed with grease and to permit easy refilling.

The invention of Nelson lies in the combination of elements, producing a new and useful result. In *Leeds & Catlin Co.* v. *Victor Talking Machine Co.*, 213 U. S. 325, 29 S. Ct. 503, 505, 53 L. Ed. 816, the United States Supreme Court in its opinion said:

> A combination is a composition of elements, some of which may be old and others new, or all old, or all new. It is, however, the combination that is the invention, and is as much a unit in contemplation of law as a single or noncomposite instrument.

The courts have frequently declared that invention must be determined by the evidence in each particular case. Here the evidence has established that the Nelson gun has very many advantages over the screw-type compressor. It is capable of developing pressure six or more times as high as the screw-type compressor, because the applied force is exerted upon a plunger of relatively small area. In this device, the size of the plunger may be reduced to produce practically any desired discharge pressure, without reducing the capacity of the gun for holding the lubricant. In the screw type compressor, to increase the discharge pressure, the diameter of the cylinder must be reduced.

In the Nelson device, the link and lever transmit practically all of the power applied to the lever. In the screw type, the screw-threaded piston wastes much of the power in friction. The movement of the hands in the Nelson type is much more effective in delivering the grease under high pressure. It is much quicker in operation, in applying the power and disconnecting the coupler, than the slow, twisting movement of the screw. A single rapid movement of the piston puts the barrel in condition to be refilled. In the screw type, the screw must be rotated, so as to move the piston the entire length of the barrel. The grease may be expelled from the Nelson gun suddenly, with the effect of an explosion, upon a frozen bearing. The screw type is ineffective to accomplish such result. When we add to these cheapness, simplicity of construction and assembling, and its great commercial success, we have before us a combination of elements, old in themselves, but producing such a new and useful result as clearly stamps it with the merit of invention.

We are of opinion that nothing in the prior art cited by the defendant anticipates the Nelson invention; that is, the complete combination of elements described in claim 2 of the Nelson patent. Some of the patents of the cited prior art show somewhat similar structure, but are intended for an entirely different use. Some, although they relate to the art of lubrication, fail to disclose the Nelson combination.

All attempts to distort and magnify prior nonanalogous art by way of anticipation have been condemned by the courts. Many of these citations include patents upon devices designed for dispensing various forms of liquid, as liquid soap in toilets, devices for fire-extinguishing purposes, for injecting oil into steam pipes supplying steam to engine cylinders, and for dispensing and measuring liquids, such as oil from storage tanks of various kinds. These are nonanalogous arts. In none of them do we find the combination of elements in the Nelson patent.

We next reach the question of infringement. Perhaps the only tangible position as the basis for nonfringement relates to the use of the word "depending" in claim 2 of the Nelson patent. That claim begins its enumerations of the elements which make up the combination as follows: (1) A cylinder having a bore and outlet port and a discharge passage. (2) A plunger reciprocating within said bore. (3) A lubricant receptacle attached to and depending from said cylinder, etc., the word "depending" here meaning suspended or hanging.

It is, therefore, claimed that, in the Nelson patent, the receptacle hangs from the plunger cylinder, while in defendant's invention the receptacle does not hang from the plunger cylinder. The use of the word "depending" was an apt way of saying that the receptacle is attached to the cylinder, in such a way that the two have a right-angle relationship to each other.

It would be futile to give to the word "depending" the meaning of gravitational hanging. This becomes apparent when it is observed that, although the Nelson receptacle hangs from the Nelson cylinder when the gun is held in one position, it does not hang from the cylinder when turned onto its side. The same is true of the defendant's gun. The receptacle there does not hang from the cylinder in one position, whereas it does in another.

We have no difficulty in concluding that defendant's device infringes on the device of the plaintiff. Our conclusion, therefore, is that claim 2 of the Nelson patent is valid and infringed, and that the decree of the district court, dismissing the plaintiff's bill, should be reversed, and the bill reinstated; and it is accordingly so ordered.

U. S. Circuit Court of Appeals—Third Circuit

VOICES, INC., *v.* UP-TO-DATE MFG. CO., INC.

Nos. 4,213 and 4,214. Decided April 29, 1930

[41 F.(2d) 22]

PATENTABILITY—SOUND-PRODUCING DEVICE FOR DOLLS.

Patent for a sound-producing device for dolls *Held* valid since the compact, readily-made, durable device was not a mere reassembling of old parts but was a discarding of features which really crippled the old art in efficiency, made the disc perform new and broader functions, and resulted in a cheaper, better, larger, and less fragile product.

APPEAL from the District Court of the United States for the District of New Jersey; William Clark, judge.

Suits by Voices, Incorporated, against the Up-To-Date Manufacturing Company, Incorporated. From decrees dismissing the bills, plaintiff appeals.

Record remitted, with instruction.

Mr. C. P. Goepel for the appellant.

Mr. C. C. Cousins (*Mr. Morris Kirschstein*, of counsel) for the appellee.

Before BUFFINGTON, WOOLLEY, and DAVIS, Circuit Judges.

BUFFINGTON, *Cir. J.:*

In the court below the owner of Patent No. 1,507,826, issued September 9, 1924, to Leo J. Grubman for a sound-producing device for dolls, and of Patent No. 1,588,354, issued June 8, 1926, to the same patentee for sound-producing device, filed two bills against the Up-To-Date Manufacturing Company, Inc., for infringement thereof.

Grubman's devices are aptly described in the opinion in the Second Circuit, where these patents were involved in *Voices, Inc.*, v. *Uneeda Doll Co.* (C. C. A.) 32 F.(2d) 673, as follows:

> The devices are installed in dolls for simulating the crying sound of a baby—its pronouncing of ma-ma—and comprises a flexible bellows, a short tubular casing in which the bellows is inclosed, and which serves both to operatively support the bellows and prevent foreign matters, such as the stuffing of the doll, from interfering with the proper function of the bellows. One end of the bellows is anchored, while its other end is free to move, and the anchored end of the bellows is closed by an anchoring disc, while the free end is closed by the weighted disc. Either disc, weighted or anchored, is provided with an opening, in which is placed a sounding reed. When in an upright position, the weight will act, upon the influence of gravity, to fully expand the bellows, * * * and, when the device is inflated, the weight will collapse the bellows, forcing the entrapped air through the reed, producing the sound.

The foremost advance in this industry, prior to Grubman, was the doll of Lloyd embodied in his Patent No. 1,277,229, granted August 27, 1918. Referring only to those features of Lloyd's device which are here pertinent, we note that Lloyd's bellows was cylindrical throughout and of the same diameter, with the result that the enveloping casing had to be much larger so as to permit expansion of the cylinder. It necessitated two separate

closure discs, one for the bellows, another for the space between cylinder and casing, to shut out foreign matter, which prevented bellows expansion. The device was necessarily handmade; its intricacies necessitated time, the tedious labor of successive gluing operations, as well as a number of other operations. It was restricted to small output, relatively high cost, and fragile construction. An enumeration of its short-comings is obviated by reference to the detailed recital thereof in 32 F.(2d) 674. As there also stated, the invention of the (Grubman) patent disclosed that by using a frustro-conical bellows, having the end anchored to the casing, of sufficient diameter to abut the inner face of the casing, that end of the bellows could be anchored directly to the end of the casing by a single disc, which additionally served as a common closure member, both for the end of the bellows and the end of the casing, thus dispensing with two discs of different diameters, one to close the bellows and the other to close the casing, and the difficult folding and gluing steps which were required with the use of the cylindrical bellows of the prior art. It eliminated the tedious glue steps and indeed the use of glue. This is important because glue gets brittle and when brittle cracks, and when it cracks breaks the bellows, and when the bellows breaks air enters and the function power of the mechanism is destroyed. Moreover, in the Lloyd glue device there are eleven steps or movements of manufacture; in the Grubman device there are but six, which, measured by man power or girl power, result in one girl making the Grubman device and doing the work of three girls making the Lloyd device. The breakage of the Grubman device and the consequeut return and money loss was less than in the Lloyd device, and, finally, four competitive manufacturers took licenses under the Grubman patents and since 1925 these licenses have sold over 22,000,000 of the patented structures. All this was found by the art to effect economy in time, labor, and materials, and provided a more simple, compact, durable, and strong construction. It was more than an assembling of old elements, for it brought into use two new elements, a conical bellows and the common closure for the bellows and casing. It secured a novel weighted end of the bellows, by clamping the smaller end of the conical bellows to the weight, instead of gluing it, as had been done.

To our mind, the advance made by Grubman involved invention. His compact, readily-made, durable device was not a mere reassembling of old parts, but was a discarding of features which really crippled the old art in efficiency, made his disc perform new and broader functions, and resulted in a cheaper, better, larger, and less fragile product. It substituted mechanical for glue closure. The advance made by Grubman centered in using a tapering, conical bellows, instead of the cylindrical, uniform diameter, one of Lloyd. But in the wake of this simple change there followed the advantages that make this suit a matter of real substance—to the inventor to monopolize the improvement, to the infringer to share it.

The second patent of Grubman is a distinct improvement, and not a double patenting, of his first device, in that it provides a frictional clamping ring having a marginal flange with two annularly disposed gripping surfaces, one of which clamps the bellows to the outer face of the disc and the other of which fastens the peripheral face of the disc to the end of the bellows. We are of opinion that both patents are valid, and as infringement is not contested if validity be shown, the plaintiff is entitled to injunctive and accounting relief. The record will therefore be remitted to the court below for further action in accord herewith.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,010,273, F. A. Law, Speed-changing mechanism, C. C. A., 6th Cir., Doc. 5331, *The Warford Corp. et al.* v. *The Bryan Screw Machine Products Co. et al.* The Bryan Screw Machine Products Co. enjoined Nov. 5, 1930.

1,019,158, F. C. Ielfield, Mail-marking machine, D. C., W. D. N. Y., Doc. 1491–I, *Columbia Postal Supply Co.* v. *The Ielfield Postal Supply Corp. et al.* Dismissed Nov. 3, 1930.

1,038,029, H. L. Turney, Logging engine, filed Nov. 7, 1930, D. C. Oreg. (Portland), Doc. L 11185, *H. L. Turney* v. *Clyde Equipment Co.*

1,052,167, C. Nessler, Process of waving hair; 1,611,466, Lewis and Murray, Steaming tube for hair waving; 1,619,798, same, Container for hair in permanent-waving process, D. C., E. D. Mich., S. Div., Doc. 3561, *The Nestle Le Mur Co.* v. *L. E. Morris Co.* Dismissed under equity rule 57 Nov. 6, 1930.

1,069,830, J. Trau, Process of producing polychrome photogravures and apparatus therefor, filed Aug. 11, 1930, D. C. N. J., Doc. E 4088, *R. H. Stone* v. *Wyanoak-Elco Publishing Corp.*

1,102,152, P. Jones, Process of pumping oil wells, filed Nov. 5, 1930, D. C., N. D. Okla. (Tulsa), Doc. E 583, *Jones-McLaughlin, Inc.*, v. *Independent Oil & Gas Co.*

1,142,361, G. Ornstein, Process of antisepticizing water, D. C. N. J., Doc. E 3948, *Wallace & Tiernan Co., Inc.*, v. *R. V. Donnelly et al.* Dismissed Sept. 22, 1930.

1,177,697, L. Gaumont, Developing, fixing, toning, and otherwise treating photographic films and prints; 1,209,696, same, Apparatus for drying photographic films; 1,260,595, F. B. Thompson, Film-treating apparatus; 1,299,266, same, Film-wiping apparatus; 1,569,156, same, Photographic-film drier, filed Nov. 6, 1930, D. C., S. D. N. Y., Doc. E 56/199, *Cinema Patents Co., Inc.*, v. *Fox Film Corp.*

1,180,159, I. Langmuir, Incandescent electric lamp, filed Oct. 28, 1930, D. C. N. J., Doc. E 4132, *General Electric Co.* v. *Jewel Lamps, Inc., et al.* Same, filed Nov. 7, 1930, D. C., S. D. N. Y., Doc. E 56/217, *General Electric Co.* v. *Butler Bros., Inc.*

1,184,979, H. C. Miller, Flexible binder post for loose-leaf binders, D. C., E. D. Wis. (Milwaukee), Doc. 2873, *Stationers Loose Leaf Co.* v. *Sickert & Baum Stationery Co.* Decree for plaintiff, claims 1 and 9 held valid Nov. 1, 1930. Doc. 2903, *Stationers Loose Leaf Co.* v. *H. H. West Co.* Decree as above.

1,209,696. (See 1,177,697.)

1,212,840, F. J. Straub, Building block and method of making same, D. C. N. J., Doc. E 3763, *Crozier-Straub, Inc., et al.* v. *Decker Bros., Inc.* Interlocutory decree Sept. 22, 1930. Doc. E 3823, *Crozier-Straub, Inc., et al.* v. *D. Apriceno.* Decree as above. Doc. E 3829, *Crozier-Straub, Inc.*, v. *E. D. Snook et al.* Decree as above. Same, filed Sept. 11, 1930, D. C. N. J., Doc. E 4100, *Crozier-Straub, Inc., et al.* v. *J. Claus et al.* Doc. E 4101, *Crozier-Straub, Inc., et al.* v. *Middlesex Concrete Products Co. et al.* Same, filed Aug. 25, 1930, D. C., E. D. Pa. Doc. 6189, *Crozier-Straub, Inc., et al.* v. *A. di Renzo* (*Bristol Composition Stone Co.*).

1,218,314, C. P. Read, Machine for placing springs in casings, C. C. A., 6th Cir., Doc. 5507, *Simmons Corp.* v. *National Spring & Wire Co. et al.* Claims 1 and 2 held not infringed Nov. 11, 1930.

1,220,038, C. W. White, Child's toy vehicle filed Nov. 3, 1930, D. C., S. D. N. Y., Doc. E 56/191, *H. C. White Co.* v. *Butler Bros., Inc.*

1,248,961. (See 1,402,817.) 1,260,595. (See 1,177,697.)

1,277,652, B. J. Seymour, Gearing C. C. A., 6th Cir., Doc. 5559, *B. F. Seymour* v. *Ford Motor Co.* Patent held invalid Nov. 5, 1930.

1,299,266. (See 1,177,697.)

1,307,733, A. V. Gullborg, Lubricating apparatus; 1,307,784, same, Lubricating means, D. C., S. D. N. Y., Doc. E 44/56, *The Bassick Mfg. Co.* v. *E. Jumpano.* Consent decree for plaintiff (notice Nov. 6, 1930).

1,307,734. (See 1,307,733.)

1,317,431, L. P. Clutter, Ditching or excavating machine; 1,476,121, Wagner and Downie, Excavating scoop; 1,511,114, 1,543,250, R. R. Downie, Excavating machine, C. C. A., 6th Cir., Doc. 5433, *The Byers Machine Co. et al.* v. *Keystone Driller Co.* Claim 4 of Patent 1,317,431 and patents 1,476,121, 1,511,114, and 1,543,250 held valid and infringed Nov. 5, 1930.

1,350,363. (See Re 15,529.)

1,357,790, R. Marx, Furnace, filed Nov. 6, 1930, D. C. R. I., Doc. 359, *American Electric Furnace Co.* v. *C. I. Hayes, Inc.*

1,358,493, A. Wachsman, Stop mechanism for knitting machine, appeal filed Nov. 8, 1930, C. C. A., 2d Cir., Doc. 11178, *A. Wachsman* v. *J. Wachsman.*

1,365,896, T. I. Duffy, Disk wheel for vehicles, D. C., E. D. Mich., S. Div., Doc. 1978, *G. H. Forsyth* v. *Budd Wheel Co. et al.* Dismissed without prejudice Nov. 4, 1930.

1,402,817, H. M. Weber, Cumaron resin chewing gum; 1,248,961, same, Chewing gum, filed Sept. 23, 1930, D. C. N. J. Doc. E 4112, *Sweets Laboratories, Inc.*, v. *Barrett Co.*

1,411,227, L. A. Suckoff, Spring-cushion construction, filed Nov. 5, 1930, D. C., S. D. N. Y., Doc. E 56/195, *Nachman Spring-Filled Corp.* v. *Spring Products Corp.*

1,432,658, C. J. Bellar, Grease pump, C. C. A., 6th Cir., Doc. 5435, *Bennett Pumps Corp.* v. *The Wayne Pump Co. et al.* Held valid and infringed Nov. 6, 1930.

1,443,363, I. E. Heller, Means and method of manufacturing interfolded pieces of cloth, etc., filed Sept. 23, 1930, D. C., E. D. Pa., Doc. 6235, *D. A. Rosenthal* v. *West Disinfecting Co., Inc., et al.*

1,466,701, L. de Forest, Method of and means for controlling electric currents by and in accordance with light variations; 1,693,071, same, Sound-recording attachment for motion-pictures cameras; 1,695,414, same, Talking-moving-picture machine; 1,607,480, E. E. Ries, Method of reproducing photographic sound records, appeal filed July 29, 1930, C. C. A., 3d Cir., Doc. 4462, *General Talking Pictures Corp. et al.* v. *Stanley Co. of America.*

1,473,686, J. J. Sullivan, Hosiery, filed Oct. 17, 1930, D. C., E. D. Pa., Doc. 6275, *W. Brown Co.* v. *Fedden Bros. Co., Inc.*

1,476,121. (See 1,317,431.)

1,496,458, V. A. Friend, Method of preparing canned baked beans, appeal filed Nov. 4, 1930, C. C. A., 1st Cir., Doc. 2508, *L. A. Friend et al.* v. *Burnham & Morrill Co.*

1,502,462, H. F. Curtis, Apparatus for cleaning gravel, filed Sept. 19, 1930, D. C., E. D. Pa., Doc. 6231, *H. F. Curtis* v. *Warner Co.*

1,511,114. (See 1,317,431.)

1,526,982, E. W. Hill, Stencil sheet, D. C., S. D. N. Y., Doc. E 54/173, *A. B. Dick Co.* v. *Duplicating Supplies Corp. et al.* Decree for plaintiff (notice Nov. 8, 1930).

1,539,300. (See 1,599,807.)

1,542,803, Gordon and Redlin, Lathe, D. C., E. D. Mich., S. Div., Doc. 3899, *The Gordon Form Lathe Co.* v. *The Jackson Motor Shaft Co.* Dismissed without prejudice Nov. 11, 1930. Doc. 3945, *The Gordon Form Lathe Co.* v. *General Motors Corp.* Decree as above. Doc. 3946, *The Gordon Form Lathe Co.* v. *Packard Motor Car Co.* Decree as above.

1,543,250. (See 1,317,431.) 1,569,156. (See 1,177,697.)

1,586,307, F. E. Johnson, Electric-lamp socket, C. C. A., 2d Cir. Doc. —, *J. I. Paulding* v. *I. Leviten.* Decree reversed (notice Nov. 5, 1930).

1,599,807, 1,539,300, A. L. Christiansen, Fish cutting and cleaning machine, D. C., S. D. Calif. (Los Angeles), Doc. E N–36–M, *R. L. Dee* v. *W. S. La Londe et al.* Dismissed with prejudice Aug. 9, 1930.

1,604,224, B. Friedman, Syringe; 1,624,327, same, Needle mounting for hypodermic syringes, D. C., S. D. N. Y., Doc. E 41/262, *B. Friedman* v. *A. Bandman* (*Metzan Dental Mfg. Co.*). Consent order of discontinuance Nov. 6, 1930.

1,607,480. (See 1,466,701.) 1,611,466. (See 1,052,167.)

1,614,619, J. J. Kaplan, Apparatus for photographing checks, filed Aug. 12, 1930, D. C., E. D. Pa., Doc. 6175, *J. J. Kaplan* v. *National Perforator Co.*

1,619,798. (See 1,052,167.)

1,622,103, J. O. Fulton, Hardwood block flooring; 1,622,104, same, Block flooring and process of making same, filed Nov. 1, 1930, D. C., W. D. Mich. (Grand Rapids), Doc. 2394, *The J. O. King Flooring Co.* v. *The Art Designed Flooring Co. et al.*

1,622,104. (See 1,622,103.) 1,624,327. (See 1,604,224.)

1,624,146, F. Oliver, Core drill, D. C., S. D. Calif. (Los Angeles) Doc. L–120–M, *Elliott Core Drilling Co.* v. *H. C. Smith.* Dismissed Aug. 6, 1930.

1,688,478, A. J. Weiss, Electrical condenser, appeal filed Nov. 10, 1930, C. C. A., 2d Cir., Doc. 11181, *Dubilier Condenser Corp.* v. *Aerovox Wireless Corp.*

1,693,071. (See 1,466,701.) 1,695,414. (See 1,466,701.)

1,704,833, C. J. Irwin, Hob grinder, D. C., E. D. Mich., S. Div., Doc. 3537, *Illinois Tool Works* v. *Michigan Tool Co.* Decree for plaintiff Nov. 5, 1930.

1,715,555, J. W. Jackson, Brake construction; 1,752,269, H. F. Shaw, Brake for baby carriages, filed Aug. 20, 1930, D. C. N. J., Doc. E 4092, *F. A. Whitney Carriage Co.* v. *S. Slatkin.*

1,730,420, G. W. Gillen, Coincidental lock for motor vehicles, filed Oct. 30, 1930, D. C. N. J., Doc. E 4133, *Gillen, Kimmey, Baker Syndicate, Inc.*, v. *Newark Buick Corp.*

1,737,971, A. Law, Tubular rack, filed Oct. 15, 1930, D. C., E. D. Pa., Doc. 6273, *A. Law* v. *D. L. Ward Co.*

1,748,489, McCarthy and Novick, Photographing apparatus, filed Sept. 22, 1930, D. C., E. D. Pa., Doc. 6233, *G. L. McCarthy et al.* v. *National Perforator Co., Inc.*

1,751,301, R. M. Bagley, Apparatus for making soap solution, filed Nov. 5, 1930, D. C., S. D. N. Y., Doc. E 56/196, *The R. M. Hollingshead Co.* v. *Fischer's Surfa Saver, Inc.*

1,752,269. (See 1,715,555.)

1,762,390, G. V. Gavaza, Combined filling and draining device, filed Nov. 4, 1930, D. C. Mass., Doc. E 3354, *Siph-o-Products Corp.* v. *J. J. Reedy.*

1,763,212, A. J. Barnett, Bathing suit, filed Oct. 22, 1930, D. C., E. D. Pa., Doc. 6281, *The Worcester Knitting Co.* v. *B. Peterzell et al.* (*Hub Knitting Mills*).

Re. 15,529, Dick and Wolters, Heat-resisting cabinet and method of making; 1,350,363, same, Heat-resisting safe or cabinet, C. C. A., 2d Cir., Doc. 10796, *Remington Rand Inc.*, v. *Art Metal Construction Co.* Decree modified (notice Nov. 5, 1930).

Re. 16,590, Olson and England, Hob-grinding machine, D. C., E. D. Mich., S. Div., Doc. 3420, *Illinois Tool Works* v. *Michigan Tool Co.* Decree for plaintiff Nov. 5, 1930.

Re. 16,817, J. H. Smith, Reaming and counterboring tool, C. C. A., 6th Cir., Doc. 5530–5531, *Gairing Tool Co.* v. *Eclipse Interchangeable Counterbore Co.* Claims 1, 2, 3, 5, 7, 8, and 9 held invalid, claims 4 and 6 held valid and infringed, Nov. 5, 1930.

Re. 17,087, P. L. Billingsley, Sawing device, D. C., S. D. Ohio, W. Div., Doc. 695, *The P. L. Billingsley Co.* v. *The Mechanical Supplies Co.* Consent decree holding patent valid and infringed (notice Sept. 10, 1930).

Re. 17,510, J. A. Hoegger, Wall cabinet, filed Oct. 18, 1930, D. C. N. J., Doc. E 4124, *J. A. Hoegger* v. *F. W. Lee Co.*

Re. 17,642, P. P. Horni, Traffic signal, filed Aug. 13, 1930, D. C. N. J., Doc. E 4090, *P. P. Horni* v. *Mayor & Alderman of Jersey City.*

T. M. 259,216, G. H. Lee Co., Capsules, pills, etc.; T. M. 264,624, same, Capsules for treating worms in poultry, filed Nov. 3, 1930, D. C. Nebr. (Omaha), Doc. E 1080, *G. H. Lee Co.* v. *The Henry Field Co.* Injunction rendered Nov. 3, 1930.

T. M. 264,624. (See T. M. 259,216.)

Important Information

In ordering manuscript copies much time will be saved if the order states specifically what is desired, viz:

Application as originally filed. (Petition, specification, oath, and drawings as received.) Application as amended. (Petition, specification, oath, and drawings with amendments entered.)
Application as allowed. (Petition, specification, oath, and drawings as passed by the Examiner for issue.)
Original application. (Facsimile petition, specification, oath, and drawings at present time.)
Specification as originally filed. (As received in Office.)
Specification as amended. (With amendments entered.)
Specification as allowed. (As passed by the Examiner for issue.)
Original specification. (Facsimile at present time.)
File-wrapper. (File-wrapper only.)
File-wrapper and contents. (File-wrapper, contents of record, including photoprints of any tracings or of prints within file-wrapper. In patented-cases, printed copy of the specification and drawings of the patent is furnished.)
File-wrapper, contents, and drawings. (File-wrapper and all of the contents of record, including photoprints of any tracings, exhibits, or prints within the file-wrapper. In pending cases, photoprints of the pending drawings only, omitting any canceled. If patented, copy of the specification and drawings of the patent being furnished, photoprints are not made of the original drawings unless specially ordered. If canceled drawings are wanted, they must also be specially ordered.)
Assignment. (Give the liber and page of the record as well as the name of the inventor.)
Printed publications in possession of the Office. (Give title and date of publication, also page and exact portion to be copied.)

Orders for copies of any other records not mentioned above must state specifically the exact paper to be copied.

Notice Regarding Payment of Fees

All fees must be paid in advance. Payment of money required for Office fees *must* be made in specie, Treasury notes, national-bank notes, post-office money orders, or certified checks. Money orders and checks must be made payable to the "Commissioner of Patents." Money sent by mail to the Patent Office will be at the risk of the sender. (See Rule 194.)

Certified checks, bank drafts, express and foreign money orders must be immediately negotiable in this country and for the full amount of the fee required by the Patent Office. No allowance can be made by this Office for any charge for their collection or exchange. Postage stamps will not be accepted. Failure to comply with the above instructions will cause delay.

Drawings

PRECAUTIONS TO BE OBSERVED IN FORWARDING DRAWINGS TO THE UNITED STATES PATENT OFFICE

Where drawings are to be filed in connection with an application for Letters Patent in the United States Patent Office, each sheet, before it can be accepted by the Office as a part of the application, must be signed in the name of the inventor at the lower right-hand corner, either by him or by an attorney whose written authorization from the applicant is filed in connection with the application. The signatures should never be written on a line parallel with the longer edges of the sheet, one of the shorter edges being always regarded, for the purpose of locating the signatures, as the lower edge of the sheet. The signatures must all be within the margin-lines of the sheet and below the lines of the drawing. The title of the invention should be written with pencil on the back of each sheet of drawings.

When there are filed on the same day two or more applications by the same inventor, each of the documents and drawings belonging to the same application should have placed thereon the same letter or number, which should be different from the letter or number placed upon those of any other of the applications.

It is desirable that all parts of the complete application, including the drawings, be deposited in the Office at the same time. Should, however, the other parts of the application be filed before the drawings are sent, the latter when forwarded should be accompanied by a letter stating the number of sheets inclosed, and that the drawings are to be filed with the other parts of the application, giving the date at which such other parts were filed in the Office, the name of the inventor, and title of the invention. If the application has received a serial number, that should also be given, and it should be indorsed with pencil on the back of each sheet of drawings. The letter should also state, if such be the case, that the new drawings are to be substituted for those previously filed.

Examiners' Letters and Amendments

Examiners are directed to recite in each letter in an application the date of the action by the applicant to which it is a reply, and applicants are requested to indicate in their actions on an application the date of the last Office letter.

Disbarred Attorneys

It is hereby directed that any person who has been disbarred from practice before the Patent Office by order of the Commissioner will be denied access to the files of the Office, either in his own capacity or as the representative of any other person or firm.

TRADE-MARKS

OFFICIAL GAZETTE, DECEMBER 30, 1930

[VOL. 401. No. 5]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for " under the ten-year proviso " are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 296,564. DOROTHY RADWAY, West New Brighton, N. Y. Filed Feb. 26, 1930.

WINDOBAG

For Grass Seeds, Field Seeds, Vegetable Seeds, and Flower Seeds.

Claims use since July 22, 1929.

Ser. No. 308,011. EAGLE-OTTAWA LEATHER CO., Grand Haven, Mich., and New York, N. Y. Filed Nov. 18, 1930.



No claim being made to the exclusive use of the words "Chrome Grand Haven, Mich.," apart from the mark as shown in the drawing.

For Patent Leather.

Claims use since Oct. 1, 1930.

CLASS 2

Receptacles

Ser. No. 303,217. M. H. SIKES, Atlanta, Ga. Filed July 7, 1930.



For Metallic Oil and Gasoline Cans.

Claims use since Apr. 10, 1930.

Ser. No. 306,225. EMPIRE BOX CORPORATION, Chicago, Ill. Filed Sept. 22, 1930.

REDIPAK

THE LIGHTNING CONTAINER

Applicant hereby disclaims the word "Container" apart from the mark as shown on the drawing.

For Paper Boxes and Cartons.

Claims use since Sept. 16, 1930.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 291,463. MERCK & CO., INC., Rahway, N. J. Filed Oct. 23, 1929.

Fabriklene

For Fluid for Dry Cleaning Garments, Upholstery, and Other Textile Materials.

Claims use since Oct. 19, 1929.

Ser. No. 297,500. SPEE DEE PRODUCTS COMPANY, Philadelphia, Pa. Filed Mar. 18, 1930.

SPEE DEE KLEEN

The exclusive use of the word "Kleen" when expressing the sense of "clean" is disclaimed in itself.

For Cleansers of Wearing Apparel and Other Fabrics, Leather Articles; Articles of Wood, Metal, and Glass; and Chinaware.

Claims use since Jan. 1, 1930.

Ser. No. 300,885. PERCO-STERIL MACHINE CORPORATION, New York, N. Y. Filed May 20, 1930.

Perco
POLISH

"It Cleans as it Polishes"

No claim being made to the word "Polish" or the words "It Cleans As It Polishes" apart from the mark shown.

For Liquid Used for Cleaning, Polishing, and Restoring Metals, Glass, Porcelain, and Articles Having Similar Surfaces.

Claims use since Feb. 1, 1930.

Ser. No. 305,568. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany. Filed Sept. 11, 1930.

Perchloron

For Soaps and Washing Powders Having Incidental Bleaching Properties.

Claims use since May, 1930.

Ser. No. 306,203. TURCO PRODUCTS, INC., doing business as Turco, Los Angeles, Calif. Filed Sept. 29, 1930.



For Abrasive and Detergent Cleaning Compounds in Flake, Pulverized, Paste, and Liquid Form.

Claims use since Oct. 15, 1927.

Ser. No. 306,711. TIMOTHY D. PERKINS, doing business as Ace Products Co., San Diego, Calif. Filed Oct. 13, 1930.



No claim is made to the word "Cleaner" apart from the trade mark shown.

For Cleansing Liquid for Woven or Knit Fabrics Such, for Instance, as Dresses or Wearing Apparel or Otherwise.

Claims use since Jan. 10, 1928.

Ser. No. 307,010. PAL PRODUCTS CO. INC., Brooklyn, N. Y. Filed Oct. 21, 1930.

PALO

For Cleansing and Polishing Powder for Porcelain, Tile, Enamel, Woodwork, and Painted Walls.

Claims use since May, 1928.

Ser. No. 307,082. GUSTAV A. ABRAHAMSEN, Locust Valley, N. Y. Filed Oct. 23, 1930.

HANDI-DANDY

For Automobile Polishing Cloth Which Has Been Chemically Treated.

Claims use since Aug. 9, 1930.

Ser. No. 307,474. IGNACE BOURIE, doing business as The Bourieo Mfg. Co., Reno, Nev. Filed Nov. 3, 1930.

BOURIEO

For Liquid Cleaner for Removing Stains and Cleaning Silks, Linens, Woolens, Leathers, Woodwork, Glass, Metal, and the Like.

Claims use since Oct. 1, 1929.

Ser. No. 307,517. WILHELM BROS., Kansas City, Mo. Filed Nov. 3, 1930.

LéMir

For Liquid-Cleaning Composition for Glass.

Claims use since Oct. 22, 1930.

CLASS 5
Adhesives

Ser. No. 307,446. FIRESTONE FOOTWEAR COMPANY, Hudson, Mass. Filed Nov. 1, 1930.

TRU-PUTT

For Adhesive Liquid Cement for Use on Artificial Golf-Green Surfaces.

Claims use since Sept. 16, 1930.

Ser. No. 308,015. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany. Filed Nov. 18, 1930.

Cosavult

For Adhesives for Affixing Rubber and Rubber Substitutes of All Kinds Upon Rubber, Leather, Textile Materials, and the Like.

Claims use since Jan. 20, 1928.

CLASS 6
Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 291,004. THE H. H. H. MANUFACTURING COMPANY, Dunkirk, N. Y. Filed Oct. 12, 1929.



The word "Preparations" is hereby disclaimed apart from the mark as shown on the drawing.

For Preparations for Colds in the Throat, Head, and Chest; Tonics for the Blood, Laxatives and Liniments for Skin Lesions and Abrasions, Sprains, and Contusions, Irritations of Skin, Corns, and Callouses.

Claims use since Sept. 12, 1929.

Ser. No. 291,832. EARL HURD, doing business as Earl Hurd Laboratories, Oklahoma City, Okla. Filed Oct. 31, 1929.

HUR-GO

For Preparation for Promoting the Growth of Hair.

Claims use since May 10, 1928.

Ser. No. 295,506. MATILDA CREGER, doing business as Sunsap Laboratories, Los Angeles, Calif. Filed Feb. 3, 1930.

Sunsap

For Dentifrices.

Claims use since May 1, 1909.

Ser. No. 296,850. ART CHEMICAL WORKS, INC., Tampa, Fla. Filed Mar. 5, 1930.

Art-Kem

For Poultry Supplies—Namely, Contact Insect and Vermin Destroyers, Tonics, and Worm Removers; Special Paradichlorbenzene for Fumigation and Sanitation, and a Combined Plant-Insect Destroyer Having Nutritive Properties.

Claims use since Feb. 1, 1928.

Ser. No. 303,104. EVA FORD (MRS. JOHN W. FORD), doing business as Southern Hair Ointment Company, Bowling Green, Ky. Filed July 3, 1930.

SEVEN STAGE

For Hair Ointment.
Claims use since June 23, 1930.

Ser. No. 303,870. CHARLES S. ARNOLD, INC., Los Angeles, Calif. Filed July 28, 1930.

BATH-O-VELVET

For Bath Salts and Water Softeners.
Claims use since June 1, 1930.

Ser. No. 304,141. HEINRICH VON MAYENBURG KOMMANDITGESELLSCHAFT, Dresden, Germany. Filed Aug. 2, 1930.

Leopills

For Pharmaceutic and Cosmetic Preparations—Namely, Laxatives, Preparations for Purifying the Blood, and Antifat Preparations.
Claims use since March, 1919.

Ser. No. 304,677. THE J. S. YOUNG COMPANY, Baltimore, Md. Filed Aug. 15, 1930.



All wording with the exception of the letter "Y" and the numeral "51" is disclaimed apart from the mark as shown on the drawing.
For Logwood Extract.
Claims use since Jan. 1, 1917.

Ser. No. 304,808. GUY T. GIBSON, INC., New York, N. Y. Filed Aug. 20, 1930.

FLOVERIS

For Perfume, Toilet Water, Sachet, Face Powder, Dusting Powder, Talcum Powder, and Rouge.
Claims use since May 1, 1930.

Ser. No. 305,250. TEE TEE LABORATORIES, San Francisco, Calif. Filed Sept. 2, 1930.

TEE TEE

For External Medicine for Use in the Treatment of Foot Ringworm, Athlete's Foot, Cracked Toes, Itching Between the Toes and Along the Sides of the Feet, by Means of External Application.
Claims use since Nov. 25, 1929.

Ser. No. 305,569. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany. Filed Sept. 11, 1930.

Perchloron

For Disinfectants and Bleaching Powders.
Claims use since May, 1930.

Ser. No. 305,603. THE ASIATIC PETROLEUM COMPANY, LIMITED, London, England. Filed Sept. 12, 1930.

SHELLTOX

For Insecticides.
Claims use since May, 1929.

Ser. No. 306,296. THE DEANE PLASTER CO., Yonkers, N. Y. Filed Oct. 1, 1930.

'BAC-EZ'

For Medicated Kidney Plasters.
Claims use since July 2, 1930.

Ser. No. 306,357. REINHART J. KOEPP, doing business as The Luglyfe Sales Co., Euclid Village and Cleveland, Ohio. Filed Oct. 3, 1930.



For Preservative Compound for Battery Terminals.
Claims use since Sept. 22, 1930.

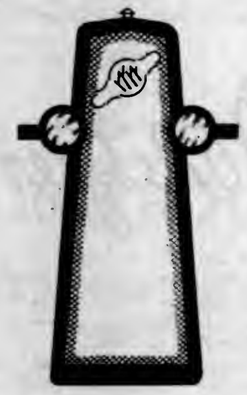
Ser. No. 306,431. CONSTANTINE LABORATORIES, Cincinnati, Ohio. Filed Oct. 6, 1930.



ARVO

For General Tonic.
Claims use since May 26, 1930.

Ser. No. 306,620. STERLING CHEMICAL CO., Jamaica Plain, Boston, Mass. Filed Oct. 10, 1930.



For Flushing Compound for Automobile Radiators, Compound for Stopping Leaks in Radiators, Cylinder Blocks, and Water Jackets; and Compound for Stopping Leaks in Heating Systems.
Claims use since July 1, 1930.

Ser. No. 306,879. PIERRE PAUL PLACIDE ASTIER, doing business as Laboratoires P. Astier, Paris, France. Filed Oct. 18, 1930.

COLITIQUE

For Vaccine Used for Combating Colibacillus, Used for Gastrointestinal Troubles and in All Cases Caused by the Colibacillus.
Claims use since December, 1927.

Ser. No. 307,020. W. J. STAHL, doing business as The Phil-Lors' Chemical Co., Georgetown, Ohio. Filed Oct. 21, 1930.

PHIL-LORS' OINTMENT

The word "Ointment" not being claimed apart from the mark as shown on the drawing.
For an Ointment for Hay Fever, Nasal Catarrh, Colds in Head, Nose, Throat, and Chest, Sore Gums and Teeth, Sore and Inflamed Eyelids, Neuralgia, Sore Muscles, Stiff Joints, Sore and Aching Feet, Corns and Bunions, Skin Eruptions, Pimples, Blackheads, Flesh Worms, Burns and Scalds, and Hemorrhoids or Piles.
Claims use since Aug. 19, 1930.

Ser. No. 307,029. BALFOUR, GUTHRIE & CO., LIMITED, San Francisco, Calif. Filed Oct. 22, 1930.

KERO-WASH

The word "Wash" is disclaimed except as used in connection with the balance of the mark as shown.
For Kerosene Emulsion Used as an Aid to Hydrochloric Acid in Removing Arsenical Residue on Fruit.
Claims use since Sept. 5, 1930.

Ser. No. 307,184. THOMPSON BARBER SUPPLY CO., doing business as Jos. Thompson, Sioux City, Iowa. Filed Oct. 25, 1930.

Dixie Rose

For Hair Oil.
Claims use since 1916.

Ser. No. 307,219. IDA RIBNER, doing business as Beatrice Morgan, Brooklyn, N. Y. Filed Oct. 27, 1930.



No claim is made herein for registration of the representation or outline of the label per se or apart from its association as shown in the drawing.
For Cleansing Cream, Almond Cream, Foundation Cream, Skin and Tissue Cream, Lemon Bleach Pack, Liquid Face Powder, Face Powder, Face Astringent, Rouge, Lip Stick.
Claims use since December, 1927.

Ser. No. 307,396. GILCOR MANUFACTURING CO. INC., New York, N. Y. Filed Oct. 31, 1930.

Yankee
PERFUME
STARCH

The words "Perfume Starch" appearing on the drawing are hereby disclaimed as part of said trade-mark.
For Washing Starches.
Claims use since Aug 15, 1924.

Ser. No. 307,508. RING-ROUT, INC., New Orleans, La. Filed Nov. 3, 1930.

RING-ROUT

For Medical Compound for the Treatments of Affections of the Skin.
Claims use since Oct. 4, 1930.

Ser. No. 307,549. ELIJAH W. HUNTER, Tulsa, Okla. Filed Nov. 5, 1930.



ELIJAH W. HUNTER'S

The portrait forming a part of the trade-mark is of the applicant.
For Liniment for Use in the Treatment of Mange and Stiffness.
Claims use since Sept. 5, 1930.

Ser. No. 307,601. GOTTFRIED METZLER, Ambler, Pa. Filed Nov. 6, 1930.

G. Metzler

The name "G. Metzler" appearing on the drawing is a facsimile of the signature of the applicant.
For Preparation for Rheumatic Ailments.
Claims use since Sept. 1, 1930.

Ser. No. 307,625. WILLIAM R. KNOTT, Rochester, N. Y. Filed Nov. 7, 1930.

AQUAJOYS

For Salts Used for Bathing.
Claims use since Oct. 1, 1930.

Ser. No. 307,761. ASPIRIN SELTZER CORPORATION, North Cambridge, Mass. Filed Nov. 11, 1930.

PYR ASPIRIN

No claim is made to the descriptive word "Aspirin" apart from the mark shown in the drawing.
For Medicinal Compound for Treatment of Headaches, Colds, and Neuralgia, Muscle Aches and Pains.
Claims use since August, 1930.

Ser. No. 307,994. SANDOZ CHEMICAL WORKS, INC., New York, N. Y. Filed Nov. 17, 1930.

CEROLS

For Chemical Preparations Adapted for Waterproofing Fabrics.
Claims use since Aug. 25, 1930.

Ser. No. 308,067. ROSE R. HAMBURGER, doing business as Nostro Laboratories, Baltimore, Md. Filed Nov. 19, 1930.

NOSTRO

For Preparation for the Relief of Head Colds, Hay Fever, Rose Fever, Nasal Irritations, Minor Throat and Bronchial Irritations.
Claims use since Oct. 4, 1930.

Ser. No. 308,085. FRANK W. ROECA, Omaha, Nebr. Filed Nov. 19, 1930.

MARGEROCA

For Hair Oil, a Preparation for the Treatment of the Scalp and Invigorating the Roots of the Hair.
Claims use since Sept. 15, 1930.

Ser. No. 308,220. ANNIE PORTER, doing business as Madam Anna Porter, Chicago, Ill. Filed Nov. 22, 1930.



The trade-mark consists of the applicant's portrait.
For Hair Grower.
Claims use since 1918.

Ser. No. 308,241. CALIFORNIA SPRAY CHEMICAL CO., Berkeley, Calif. Filed Nov. 24, 1930.

ORTHOL-K

For Insecticides, Germicides, and Fungicides.
Claims use since May 31, 1927.

Ser. No. 308,245. WILLIAM COOPER & NEPHEWS, INCORPORATED, Chicago, Ill. Filed Nov. 24, 1930.

BARKO

For Liquid Spray for Plants and Trees.
Claims use since Nov. 12, 1930.

Ser. No. 308,266. MRS. HUGH QUINN, Fort Worth, Tex. Filed Nov. 24, 1930.

QUINN—ATONE

For Liquid Composition for Treating the Blood and the Digestive Organs.
Claims use since Sept. 1, 1929.

Ser. No. 308,284. HAROLD BENNETT, doing business as Melrose Chemcal Co., Melrose, Mass. Filed Nov. 25, 1930.

MELCO

For Preparations for Finishing, Bleaching, Sizing, Boiling Off, and Degumming Textile Fabrics.
Claims use since Oct. 25, 1930.

CLASS 7

Cordage

Ser. No. 273,329. ALEXANDER L. SYKES, doing business as The International Cordage & Yarn Co., New York, N. Y. Filed Oct. 3, 1928.

ICY

The lining on the drawing indicates the color blue.
For Manila, Flax, Jute, or the Like Rope.
Claims use since May 1, 1927.

CLASS 12

Construction Materials

Ser. No. 292,101. THE FLINTKOTE COMPANY, Boston, Mass. Filed Nov. 7, 1929.



No claim is made to the exclusive use of the words "Asphalt Roofings" apart from the mark as shown in the drawing.
For Asphaltic Roofing Composition Shingles, Waterproof Building Paper, and Asphaltic Roofing Cement, Manufactured by It and Sold Through The Sal-Mo Company as Its Selling Division.
Claims use since 1910.

Ser. No. 302,642. FREDERICK A. PURDY, Scarsdale, N. Y. Filed June 20, 1930.

"Garage-Boy"

For Garage Doors and Automatic Control and Operating Mechanism for Opening and Closing the Same.
Claims use since Oct. 10, 1923.

Ser. No. 304,302. TENNESSEE PRODUCTS CORPORATION, Nashville, Tenn. Filed Aug. 6, 1930.

TENSULATE

For Insulating Material Used to Resist Cold or Heat and for Verminproof and Fireproof Constructions.
Claims use since May 20, 1929.

Ser. No. 306,222. SOUTHWESTERN PORTLAND CEMENT COMPANY, Los Angeles, Calif. Filed Sept. 29, 1930.



No claim is made to the geographical term "El Paso, Tex." apart from the mark shown.
For Cements—Namely, Portland Cement, Oil-Well Cement, Quick-Setting Cement, Masonry Cement, and Plastic Quick-Setting Cement for Forming Waterproof Concrete.
Claims use since May, 1909.

Ser. No. 306,223. SOUTHWESTERN PORTLAND CEMENT COMPANY, Los Angeles, Calif. Filed Sept. 29, 1930.



No claim is made to the geographical words "Osborn, Ohio" and "Miami" apart from the mark shown.
For Cements—Namely, Portland Cement, Oil-Well Cement, Quick-Setting Cement for Forming Waterproof Concrete.
Claims use since June, 1925.

Ser. No. 307,529. KALITE COMPANY, LIMITED, Pasadena, Calif. Filed Nov. 4, 1930.

KALITE

For Acoustical Plaster.
Claims use since Aug. 20, 1930.

Ser. No. 307,771. GENERAL REFRACTORIES COMPANY, Philadelphia, Pa. Filed Nov. 11, 1930.

RITEX

For Refractory Brick.
Claims use since Apr. 11, 1929.

Ser. No. 307,820. MACKLANBURG-DUNCAN COMPANY, Oklahoma City, Okla. Filed Nov. 12, 1930.

On-GARD

For Metal and Felt Weather Stripping, Metal Weather Stripping, and Felt Weather Stripping.
Claims use since August, 1930.

Ser. No. 307,882. ASBESTOS LIMITED INC., New York, N. Y. Filed Nov. 14, 1930.

NEWMARVEL

For Wall Board in Sheet or Slab Form.
Claims use since Nov. 1, 1930.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 293,515. LOUIS D. CAHN, doing business as L. D. CAHN CO., New York, N. Y. Filed Dec. 11, 1929.



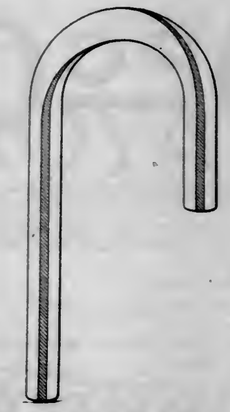
The words "Czecho-Slovakia" are disclaimed apart from the mark as shown.
For Kitchen Utensils—Namely, Base-Metal Cooking Hollow Ware.
Claims use since June 4, 1929.

Ser. No. 306,578. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Oct. 9, 1930.

MAID OF HONOR

For All White Enameled Pressed-Steel Baby Bathtubs, Baking Pans, Chambers, Coffeepots, Combinets, Convex Kettles, Dish Pans, Double Boilers, Drinking Cups, Mixing Bowls, Mugs, Percolators, Preserving Kettles, Plates, Pudding Pans, Refrigerator Sets, Saucepans, Teakettles, Water Pitchers.
Claims use since Mar. 1, 1930.

Ser. No. 307,533. NATIONAL TUBE COMPANY, Pittsburgh, Pa. Filed Nov. 4, 1930.



The trade-mark consists of two green stripes disposed longitudinally and diametrically opposite each other on the metal pipe. The drawing is lined for green. No claim is made for the pipe in itself.
For Metal Pipe.
Claims use since Nov. 10, 1928.

Ser. No. 307,892. GRIMES SPRINKLER COMPANY, INC., Newark, N. J. Filed Nov. 14, 1930.

GRIMES

For Automatic Sprinkler Systems Including All Parts and Accessories Necessary to the Proper Functioning of Such Systems.
Claims use since Nov. 3, 1930.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 307,627. P. R. MALLORY & CO. INCORPORATED, Indianapolis, Ind. Filed Nov. 7, 1930.

ELKALOY

For Electrode Material for Manual Spot Welding.
Claims use since Oct. 21, 1930.

CLASS 15

Oils and Greases

Ser. No. 282,645. THE GREAT WESTERN OIL COMPANY, Cleveland, Ohio. Filed Apr. 19, 1929.

CRESCENT

For Gasoline.
Claims use since 1901.

Ser. No. 298,457. OPCO CO., INC., Buffalo, N. Y. Filed Apr. 5, 1930.

OPCO

For Lubricating Oils, Lubricating Greases, Gasoline, Motor Fuel Oil, Furnace Fuel Oil, Cutting Oil, and Thinning Oil Having a Low Cold Test Used for Thinning Greases and Oil to a Point Where They Will Not Congeal at Low Temperatures.
Claims use since 1915.

Ser. No. 307,360. MCDONALD & MACHADO, Venice, Calif. Filed Oct. 30, 1930.

E-Z-ZINK

The word "Zink," being a misspelling of a word which is descriptive of the goods, is disclaimed apart from the other features of the mark shown in the accompanying drawing.
For Gasoline.
Claims use since 1924.

Ser. No. 307,510. OLIVER SAIVE, doing business as Aplus Products Co., New York, N. Y. Filed Nov. 3, 1930.

APLUS



For Lubricating Oil.
Claims use since Aug. 15, 1930.

Ser. No. 307,546. E. W. FAWCETT, Denver, Colo. Filed Nov. 5, 1930.



"The Oil of the Golden West"

No claim is made to the words "Wax-Out," "Motor Oil," and "Oil" apart from the mark as shown.
For Motor-Lubricating Oil.
Claims use since Sept. 6, 1930.

Ser. No. 307,769. EMERY INDUSTRIES, INC., St. Bernard, Ohio. Filed Nov. 11, 1930.

Little Flower

For Candles.
Claims use since May 1, 1930.

CLASS 16

Paints and Painters' Materials

Ser. No. 298,855. THE SHARPLES SOLVENTS CORPORATION, Philadelphia, Pa. Filed Apr. 14, 1930.

PENTEXEL

For Solvent for Lacquers, Varnishes, and Paints.
Claims use since Oct. 18, 1929.

Ser. No. 306,699. GENERAL ELECTRIC X-RAY CORPORATION, Chicago, Ill. Filed Oct. 13, 1930.

RUBYLITE

For Dark-Room Paint.
Claims use since Feb. 1, 1930.

CLASS 17

Tobacco Products

Ser. No. 306,080. CHARLES J. WOUTERS, Oakland, Calif. Filed Sept. 25, 1930.



The words "Little Cigars" which appear on the drawing are disclaimed apart from the mark shown.
For Cigars and Cigarettes.
Claims use since June 1, 1930.

Ser. No. 307,686. MI HOGAR CIGAR CORPORATION, New York, N. Y. Filed Nov. 8, 1930. Under 10-year proviso.

CORDERO

For Cigars.
Claims use since at least 1884.

Ser. No. 308,022. MACLIN-ZIMMER-MCGILL TOBACCO CO., INC., Petersburg, Va. Filed Nov. 18, 1930.



For Tobaccos.
Claims use since Jan. 21, 1878.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 307,497. IRVING ENGINEERING CO., INC., Sioux City, Iowa. Filed Nov. 3, 1930.

Kani-Keen

For Automobile Heaters Employing Hot Fluids from the Engine.
Claims use since June 2, 1930.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 276,150. ROYAL ELECTRIC BURGLAR ALARM CORP., Brooklyn, N. Y. Filed Dec. 1, 1928.

ROYAL

For Electric Burglar Alarms and Electric Burglar-Alarm Systems.
Claims use since June 1, 1928.

Ser. No. 291,135. NORTHERN STATES MFG. CO., INC., also doing business as Toastall Co., Minneapolis, Minn. Filed Oct. 16, 1929.

Toastall

For Electric Toasters.
Claims use since Aug. 15, 1928.

Ser. No. 294,287. NORTH VERNON LUMBER MILLS, doing business as The Platter Cabinet Company, North Vernon, Ind. Filed Dec. 31, 1929.

TALKAFILM

For Unitary Electrical Apparatus for the Reproduction of Sound Recorded Upon Photographic Films, Such Apparatus Being Separate from the Picture-Projection Apparatus Although Synchronized Therewith.
Claims use since Nov. 1, 1929.

Ser. No. 297,461. WÜRTTEMBERGISCHE METALLWARENFABRIK, Geislingen-Steige, Wurttemburg, Germany. Filed Mar. 17, 1930.

Cromargan

For Electric Lamps, Electric Grills, Electric Percolators, Cooking Utensils with Electric Heaters.
Claims use since Mar. 4, 1927.

Ser. No. 304,421. NEW JERSEY WOOD FINISHING CO. INC., Woodbridge, N. J. Filed Aug. 9, 1930.

VARTEX

THE PEAK OF QUALITY

No claim is made to the exclusive use of the words "The Peak of Quality" apart from the mark as shown in the drawing.

For Varnished Cambric Fabrics and Tapes and Varnished Tapers to be Used in the Insulation of Cable, Motors, Generators, and Similar Electrical Apparatus.

Claims use since July 21, 1930.

Ser. No. 305,088. RADIO CORPORATION OF AMERICA, New York, N. Y. Filed Aug. 27, 1930.

RCA

For Electrical Systems for Receiving and/or Distributing Electrical Waves of Audible or Superaudible Frequency, Amplifying and Reproducing Such Waves, and Parts Thereof—Namely, Antenna Coupling Units, Extension Coupling Units, Balanced Transmission Lines, Line-Terminating Units, Radio Outlet Units, Loading Coil Units, Capacitance Units, Resistor Units, Wall-Type Loud-Speakers, Channel Selectors, Switches, Combined Channel-Selector Switches and Volume-Control Switches, Flexible Cable Equipment, Key-Panel Assemblies, Neon Protective Devices, Radio Key Panels Adapted for Combination with Electric Phonograph Units, Telescopic Wall-Box Speakers, Wall-Type Electro-Dynamic Loud Speakers, Central Coupling Units, Antenna Ground Outlets, Volume-Control Switches for Flush Wall Mounting, Radio Outlet Jack Units, Portable Channel and/or Volume Control Switches, Cord-Terminal Units, Combined Channel-Selector and/or Volume-Control and Single Jack Units, Combined Loud-Speaker and Controls, Supervisory Key-Control Racks and/or Cabinets, Central Rack Assemblies Comprising Radio Receiving Sets, Interstage Amplifiers, Power Amplifiers, Audio Segregating Systems, and Automatic Time Switches, Jack Panel Assemblies, Auditorium Radio Receiving Sets Adapted for Combination with Single Turntable Phonographs, and for Housing in the Same Cabinet Thereof, and Commercial Current Power-Supply Units.

Claims use since August, 1928.

Ser. No. 305,254. TRANSFORMER CORPORATION OF AMERICA, Chicago, Ill. Filed Sept. 2, 1930.



For Assembled Sound Amplifiers and Loud-Speakers Used in Connection with Wireless Telephone and Telegraph Receiving Instruments, Radio Receiving Sets and Parts Thereof, and Accessories Therefor Consisting of Phonograph Record Electric Pick-Up Attachments, Radio Receiving Sets Used in Combination with Phonographs, and Electron or Vacuum Radio Tubes.

Claims use since May 12, 1930.

Ser. No. 306,108. H. ROST & CO., Hamburg, Germany. Filed Sept. 26, 1930.

HAROCO NONHYGRO

For Insulated Wires and Cables and for an Insulating Compound for Wires and Cables.

Claims use since May 15, 1930.

Ser. No. 306,280. GEORGE NEWMAN, doing business as Electrical Engineering & Equipment Co., Long Island City, N. Y. Filed Oct. 1, 1930.

Triple E

For Electric Lamps, Electric Mercury-Tube Control Switches, Electric Current Test or Contact Prods, Electric Mercury-Control Float Switches, Automatic Electric Time-Controlled Mercury Switches.

Claims use since Oct. 21, 1928.

Ser. No. 306,400. HILAM, INC., Milwaukee, Wis. Filed Oct. 4, 1930.

TIME-O-LITE

For Electric Lamps for General Illumination.

Claims use since Sept. 18, 1930.

Ser. No. 307,131. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill. Filed Oct. 24, 1930.

MIXMASTER

For Electric Food Mixers.

Claims use since Sept. 1, 1930.

Ser. No. 307,412. H. MAIMIN COMPANY INCORPORATED, New York, N. Y. Filed Oct. 31, 1930.

ROTOSHERE

For Electric Cloth-Cutting Machines.

Claims use since Oct. 21, 1930.

Ser. No. 307,516. UNITED STATES RUBBER COMPANY, New York, N. Y. Filed Nov. 3, 1930.

RAINBOW

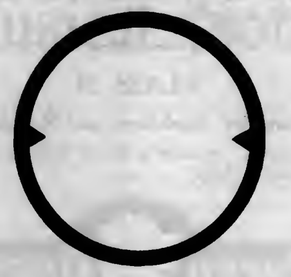
For Electrical Conductors Having a Rubber Covering.

Claims use since Mar. 7, 1929.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 305,213. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Chicago, Ill. Filed Sept. 2, 1930.

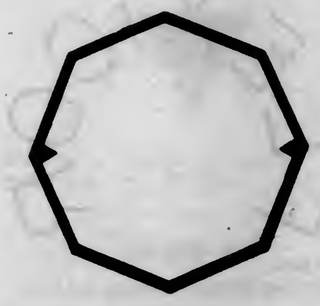


The mark consists of a circle having a pair of small darts or pointed projections in the inner periphery thereof.

For Pocket-Billiard Balls.

Claims use since Aug. 14, 1930.

Ser. No. 305,214. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Chicago, Ill. Filed Sept. 2, 1930.



The mark consists of an octagon having a pair of small darts or pointed projections in the inner periphery thereof.

For Pocket-Billiard Balls.

Claims use since Aug. 14, 1930.

Ser. No. 306,506. PEO MANUFACTURING CORPORATION, Rochester, N. Y. Filed Oct. 7, 1930.

LITTLE WHIRL-WIND

For Game of Skill—Namely, a Game Board Having Pockets and Balls to be Projected Therein.

Claims use since Sept. 1, 1930.

Ser. No. 307,213. JOHN F. MEYER, doing business as The Exhibit Supply Company, Chicago, Ill. Filed Oct. 27, 1930.

BELL JACK

For Coin-Operated Amusement Machines.

Claims use since Aug. 30, 1930.

Ser. No. 307,558. MALLOY, LIMITED, San Pedro, Calif. Filed Nov. 5, 1930.

DRIVABAL

For Golf Game Consisting of a Portable Helical-Track Apparatus.

Claims use since August, 1930.

Ser. No. 308,062. THE CRAWFORD, MCGREGOR AND CANBY COMPANY, Dayton, Ohio. Filed Nov. 19, 1930.

FLEXICOR

For Golf Clubs.
Claims use since Oct. 10, 1930.

Ser. No. 308,224. SHOFSTALL & SHOFSTALL, Omaha, Nebr. Filed Nov. 22, 1930.

BOOP-A-DOOP

For Game Board Adapted for Use in Connection with Playing Miniature Golf.
Claims use since Sept. 1, 1930.

Ser. No. 308,225. STANDARD NOVELTY WORKS, Duncannon, Pa. Filed Nov. 22, 1930.

CHALLENGER

For Coasting Sleds.
Claims use since June 16, 1930.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 306,479. WATT MANUFACTURING COMPANY, Sterling Ill. Filed Oct. 6, 1930.

KORECTAIRE

For Air-Humidifying Machinery.
Claims use since Nov. 1, 1927.

Ser. No. 306,834. PACENT ELECTRIC COMPANY, INC., New York, N. Y. Filed Oct. 16, 1930.

RECORDOVOX

For Cutting Heads for Cutting Sound Grooves in Phonograph Records.
Claims use since Dec. 15, 1929.

Ser. No. 307,563. TURNER, DAY & WOOLWORTH HANDLE COMPANY, Louisville, Ky. Filed Nov. 5, 1930.

EMERALD

For Handles for Axes, Hatchets, and Similar Implements.
Claims use since 1920.

Ser. No. 307,564. TURNER, DAY & WOOLWORTH HANDLE COMPANY, Louisville, Ky. Filed Nov. 5, 1930.

JIM DANDY

For Handles for Axes, Hatchets, and Similar Implements.
Claims use since latter part of 1926 or 1927.

Ser. No. 307,582. BUCK DRYER CORPORATION, New York, N. Y. Filed Nov. 6, 1930.

BUCK ENGINEERED DRYERS

No registration rights are claimed in the words "Engineered" or "Dryers" apart from the mark shown in the drawing.
For Pneumatic Apparatus for Drying Raw, Partly-Prepared, or Finished Materials Contained Therewithin.
Claims use since Dec. 31, 1929.

Ser. No. 308,109. FERRUCCIO GUIDETTI, New York, N. Y. Filed Nov. 20, 1930.

WATAIRWAY

For Air Pumps, Blowers, Water Motors, and Parts Thereof Used in Connection with Cleansing and Drying Appliances for Water Closets, Bidets, and Lavatories.
Claims use since Sept. 1, 1930.

CLASS 24

Laundry Appliances and Machines

Ser. No. 308,004. BARLOW & SEELIG MFG. CO., Ripon, Wis. Filed Nov. 18, 1930.

SPEED QUEEN

For Laundry Washing Machines.
Claims use since Feb. 7, 1930.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 304,077. VEEDER-ROOT INCORPORATED, Hartford, Conn. Filed July 31, 1930.

REV-METER

The word "Meter" is disclaimed other than as a part of the mark shown.
For Revolution Registers or Counters.
Claims use since July 22, 1930.

Ser. No. 307,666. EMPIRE LABORATORY SUPPLY CO. INC., New York, N. Y. Filed Nov. 8, 1930.

LAB-AID

For Apparatus for Automatically Changing Tissues During the Process of Dehydration and Microslide Filing Units.
Claims use since September, 1928.

Ser. No. 308,171. GEORGE W. ROCK, doing business as The Rock-Way Company, Oakland, Calif. Filed Nov. 21, 1930.

ROCK-WAY

For Gauging and Aligning Apparatus for Vehicle Wheels.
Claims use since June 1, 1929.

CLASS 27

Horological Instruments

Ser. No. 306,913. A. WITTNAUER CO., New York, N. Y. Filed Oct. 18, 1930.

Musical Note

For Watches, Watchcases, Watch Movements, and Parts of the Same.
Claims use since Dec. 15, 1926.

Ser. No. 307,612. WESTERN CLOCK COMPANY, Peru, Ill. Filed Nov. 6, 1930.

Wavemeter

For Clocks and Watches.
Claims use since Oct. 7, 1930.

Ser. No. 308,031. PERPETUAL SELF WINDING WATCH COMPANY OF AMERICA, INC., New York, N. Y. Filed Nov. 18, 1930.

For Self-Winding Watches and Clocks.
Claims use since Sept. 30, 1930.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 305,426. WERTHEIMER & LEVY INC., New York, N. Y. Filed Sept. 6, 1930.

A Werthley CREATION

The word "Creation" is disclaimed apart from the mark shown in the drawing.
For Articles of Jewelry for Personal Wear Not Including Watches.
Claims use since Jan. 1, 1930.

Ser. No. 306,058. INTERNATIONAL SILVER COMPANY, Meriden, Conn. Filed Sept. 25, 1930.

OLD COMPANY PLATE

The word "Plate" is disclaimed apart from the mark as shown in the drawing.
For Flatware, Consisting of Silver-Plated Spoons, Ladles, Forks, and Knives.
Claims use since Sept. 4, 1930.

Ser. No. 307,167. LITWIN & SONS, Cincinnati, Ohio. Filed Oct. 25, 1930.

CLASP-O-LOVE

For Finger Rings.
Claims use since Sept. 10, 1930.

Ser. No. 307,328. SIGMA DELTA PSI, Ann Arbor and Ypsilanti, Mich. Filed Oct. 29, 1930.

ΣΔΨ

For Keys Used as Fraternal Society Emblems, Made of or Plated with Precious Metal.
Claims use since 1912.

Ser. No. 307,665. ELLIS SILVER COMPANY INC., New York, N. Y. Filed Nov. 8, 1930.

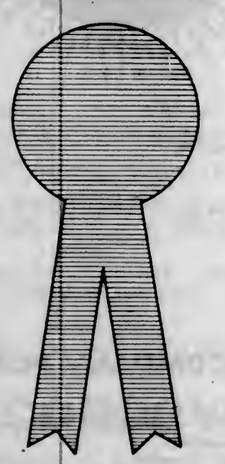


For Silver-Plated Hollow Ware.
Claims use since 1912.

CLASS 30

Crockery, Earthenware, and Porcelain

Ser. No. 299,368. THE BUCKLEY, NEWHALL COMPANY, New York, N. Y. Filed Apr. 24, 1930.



The lines shown in the drawing indicate the color blue.
For Crockery and Dishes of Porcelain and China.
Claims use since 1910.

Ser. No. 299,369. THE BUCKLEY, NEWHALL COMPANY, New York, N. Y. Filed Apr. 24, 1930.

BLUE RIBBON

For Crockery and Dishes of Porcelain and China.
Claims use since 1910.

CLASS 31

Filters and Refrigerators

Ser. No. 307,680. KNICKERBOCKER STAMPING CO., Parkersburg, W. Va. Filed Nov. 8, 1930.

KMP

For Ice-Manufacturing Apparatus.
Claims use since March, 1930.

CLASS 32

Furniture and Upholstery

Ser. No. 305,880. ROSS-FRANKEL CONTRACTORS INC., New York, N. Y. Filed Sept. 19, 1930.



For Store Fixtures—Namely, Shelving, Floor Cases, Show Cases, Counters, Cabinets, and Mirrors.
Claims use since Jan. 1, 1929.

Ser. No. 307,182. SORONOW FURNITURE MANUFACTURING CO., LTD., Los Angeles, Calif. Filed Oct. 25, 1930.

COMFORT-BUILT

Applicant hereby disclaims the exclusive use of the word "Built" apart from the mark as shown.
For Davenports and Chairs.
Claims use since 1922.

Ser. No. 307,505. PROSE-MACO MANUFACTURING COMPANY, Kansas City, Mo. Filed Nov. 3, 1930.

PROSE-MACO

For Wardrobes, Book Boards, Umbrella Containers, Combination Bookcase and Teacher's Wardrobe, Compartment Lockers, Coat Hangers, and Shelves.
Claims use since Oct. 1, 1930.

CLASS 33

Glassware

Ser. No. 305,535. HERMANN NIER, Beierfeld, Germany. Filed Sept. 10, 1930.



For Hurricane-Lamp Chimneys Made of Glass.
Claims use since Dec. 30, 1914.

Ser. No. 305,873. HERMANN NIER, Beierfeld, Germany. Filed Sept. 19, 1930.

FIRE HAND

For Hurricane-Lamp Chimneys Made of Glass.
Claims use since Dec. 30, 1914.

Ser. No. 306,742. HERMANN NIER, Beierfeld, Germany. Filed Oct. 14, 1930.



FEUERHAND

For Hurricane-Lamp Chimneys Made of Glass.
Claims use since Dec. 30, 1914.

Ser. No. 308,083. PRESSED PRISM PLATE GLASS COMPANY, Chicago, Ill. Filed Nov. 19, 1930.

RUBANITE

For Glass.
Claims uso since Oct. 7, 1930.

CLASS 34

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus

Ser. No. 295,710. COMBUSTION EQUIPMENT CO., Kansas City, Mo. Filed Feb. 6, 1930.

CECO

For Combustion Equipment—Namely, Oil Burners, Gas Burners, Counterflow Exhaust Steam Fuel-Feed Heaters, Recuperators or Air Preheaters, Hot-Gas Fans, and Cold-Air Fans (Not Essentially Electrical).
Claims use since January, 1928.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 301,758. HARRISON WHOLESALE COMPANY, Chicago, Ill. Filed May 30, 1930.

GLADIATOR

For Pneumatic Tires and Inner Tubes.
Claims use since Jan. 1, 1929.

Ser. No. 305,585. RAYBESTOS-MANHATTAN, INCORPORATED, Passaic, N. J., and Bridgeport, Conn. Filed Sept. 11, 1930.

Raycord

For Brake Lining.
Claims use since Feb. 22, 1930.

Ser. No. 305,586. RAYBESTOS-MANHATTAN, INCORPORATED, Passaic, N. J., and Bridgeport, Conn. Filed Sept. 11, 1930.

RAYCO-LET

For Brake Lining.
Claims use since June 15, 1930.

Ser. No. 307,750. WILKENING MANUFACTURING COMPANY, Philadelphia, Pa. Filed Nov. 10, 1930. Under 10-year proviso.

Pedrick

For Piston Rings for Internal-Combustion Engines, and Other Machinery.
Claims use since January, 1894.

CLASS 37

Paper and Stationery

Ser. No. 296,992. VEREINIGTE PAPIERWERKE AKTIEN-GESELLSCHAFT, Nuremberg, Germany. Filed Mar. 7, 1930.

TEMPO

For Paper Pocket Handkerchiefs, Paper Serviettes, Paper Face Tissues, Paper Towels, Paper Mats, Toilet Paper (in Roll or Sheet Form), Sanitary Towels Made Principally of Paper, and Paper Packing for Confectionery and Cakes.

Claims use since Jan. 29, 1929.

Ser. No. 297,914. HOBERG PAPER AND FIBRE CO., Green Bay, Wis. Filed Mar. 26, 1930.



The words "Near Linen" and "Paper Napkins" are hereby disclaimed apart from the trade-mark as shown.

For Paper Napkins.

Claims use since June 17, 1929.

Ser. No. 299,953. BUFFALO ENVELOPE COMPANY, Buffalo, N. Y. Filed May 5, 1930.

TNT

For Correspondence Envelopes.

Claims use since Jan. 1, 1929.

Ser. No. 303,483. MONTAG BROS. INC., Atlanta, Ga. Filed July 14, 1930.



For Writing Paper and Envelopes.

Claims use since Apr. 10, 1930.

Ser. No. 304,236. THE T. J. CARDOZA COMPANY, San Francisco, Calif. Filed Aug. 5, 1930.



For Binder Covers.

Claims use since July 21, 1930.

Ser. No. 304,257. SITROUX IMPORTING CO., INC., New York and Brooklyn, N. Y. Filed Aug. 5, 1930.

Sitroux

For Facial and Wiping Tissue.

Claims use since July 8, 1927.

Ser. No. 306,092. EUGENE N. EDWARDS, Los Angeles, Calif. Filed Sept. 26, 1930.



For Bond Paper.

Claims use since Mar. 7, 1930.

Ser. No. 306,505. PAPER MANUFACTURERS CO., INC., Philadelphia, Pa. Filed Oct. 7, 1930.

KRAFT-WELD

Applicant for the purpose of registration disclaims exclusive rights to the word "Kraft" except in connection with the balance of the mark as shown.

For Gummed Paper Tape.

Claims use since May 1, 1930.

Ser. No. 307,527. FORT HOWARD PAPER COMPANY, Green Bay, Wis. Filed Nov. 4, 1930.

Evenglo

For Paper Towels, Paper Napkins, Toilet Paper, Crepe Paper, and Tissue Paper.

Claims use since May 1, 1924.

Ser. No. 307,644. WHOLESALE STATIONERS' ASSOCIATION OF THE U. S. A., New York, N. Y. Filed Nov. 7, 1930.

RE-LI-ON

The drawing is lined to represent shading only.

For Pen Points, Eyelets, Book and Tag Holders.

Claims use since Oct. 30, 1930.

CLASS 38

Prints and Publications

Ser. No. 303,514. ROBBINS MUSIC CORPORATION, New York, N. Y. Filed July 15, 1930.



The words "Publishers" and "Distributors for Metro Goldwyn Mayer" are disclaimed apart from the mark shown in the drawing.

For Musical Publications, Such as Printed Sheet Music, Musical Scores, Etc.

Claims use since July 1, 1929.

Ser. No. 304,205. THE MEYERCORD COMPANY, Chicago, Ill. Filed Aug. 4, 1930.

SANS-ARB

For Decalcomanias.

Claims use since April, 1929.

Ser. No. 306,553. THE ASSOCIATED PRESS, New York, N. Y. Filed Oct. 9, 1930.

PUFFY

For Series of Cartoons.

Claims use since Oct. 2, 1930.

CLASS 37

Paper and Stationery

Ser. No. 296,992. VEREINIGTE PAPIERWERKE AKTIEN-GESELLSCHAFT, Nuremberg, Germany. Filed Mar. 7, 1930.

TEMPO

For Paper Pocket Handkerchiefs, Paper Serviettes, Paper Face Tissues, Paper Towels, Paper Mats, Toilet Paper (in Roll or Sheet Form), Sanitary Towels Made Principally of Paper, and Paper Packing for Confectionery and Cakes.

Claims use since Jan. 29, 1929.

Ser. No. 297,914. HOBERG PAPER AND FIBRE CO., Green Bay, Wis. Filed Mar. 26, 1930.



The words "Near Linen" and "Paper Napkins" are hereby disclaimed apart from the trade-mark as shown.

For Paper Napkins.

Claims use since June 17, 1929.

Ser. No. 299,953. BUFFALO ENVELOPE COMPANY, Buffalo, N. Y. Filed May 5, 1930.

TNT

For Correspondence Envelopes.

Claims use since Jan. 1, 1929.

Ser. No. 303,483. MONTAG BROS. INC., Atlanta, Ga. Filed July 14, 1930.



For Writing Paper and Envelopes.

Claims use since Apr. 10, 1930.

Ser. No. 304,236. THE T. J. CARDOZA COMPANY, San Francisco, Calif. Filed Aug. 5, 1930.



For Binder Covers.

Claims use since July 21, 1930.

Ser. No. 304,257. SITROUX IMPORTING CO., INC., New York and Brooklyn, N. Y. Filed Aug. 5, 1930.

Sitroux

For Facial and Wiping Tissue.

Claims use since July 8, 1927.

Ser. No. 306,092. EUGENE N. EDWARDS, Los Angeles, Calif. Filed Sept. 26, 1930.



For Bond Paper.

Claims use since Mar. 7, 1930.

Ser. No. 306,505. PAPER MANUFACTURERS CO., INC., Philadelphia, Pa. Filed Oct. 7, 1930.

KRAFT-WELD

Applicant for the purpose of registration disclaims exclusive rights to the word "Kraft" except in connection with the balance of the mark as shown.

For Gummed Paper Tape.

Claims use since May 1, 1930.

Ser. No. 307,527. FORT HOWARD PAPER COMPANY, Green Bay, Wis. Filed Nov. 4, 1930.

Evenglo

For Paper Towels, Paper Napkins, Toilet Paper, Crepe Paper, and Tissue Paper.

Claims use since May 1, 1924.

Ser. No. 307,644. WHOLESALE STATIONERS' ASSOCIATION OF THE U. S. A., New York, N. Y. Filed Nov. 7, 1930.

RE-LI-ON

The drawing is lined to represent shading only.

For Pen Points, Eyelets, Book and Tag Holders.

Claims use since Oct. 30, 1930.

CLASS 38

Prints and Publications

Ser. No. 303,514. ROBBINS MUSIC CORPORATION, New York, N. Y. Filed July 15, 1930.



The words "Publishers" and "Distributors for Metro Goldwyn Mayer" are disclaimed apart from the mark shown in the drawing.

For Musical Publications, Such as Printed Sheet Music, Musical Scores, Etc.

Claims use since July 1, 1929.

Ser. No. 304,205. THE MEYERCORD COMPANY, Chicago, Ill. Filed Aug. 4, 1930.

SANS-ARB

For Decalcomanias.

Claims use since April, 1929.

Ser. No. 306,553. THE ASSOCIATED PRESS, New York, N. Y. Filed Oct. 9, 1930.

PUFFY

For Series of Cartoons.

Claims use since Oct. 2, 1930.

Ser. No. 307,119. THE TRIBUNE COMPANY, Chicago, Ill. Filed Oct. 23, 1930.

LITTLE FOLKS

For Series of Cartoons.
Claims use since Jan. 27, 1930.

Ser. No. 307,155. ROBERT B. BISHOW, doing business as Fountain News Shop, Cincinnati, Ohio. Filed Oct. 25, 1930.



For Newspapers, Magazines, Periodicals, Greeting Cards, and Printed Books.
Claims use since Jan. 1, 1928.

Ser. No. 307,177. RUFUS D. ALLBRIGHT, Chicago, Ill. Filed Oct. 25, 1930.

Radio
Sales and Service
The National Magazine for Dealers and Servicemen

The words "The National Magazine for Dealers and Servicemen" appearing on the drawing are not claimed when used apart from the mark shown.
For Periodical Publication.
Claims use since July 1, 1930.

Ser. No. 307,181. SOCIAL REGISTER ASSOCIATION, New York, N. Y. Filed Oct. 25, 1930.

Social Register

For Periodical.
Claims use since 1887.

Ser. No. 307,325. VICTORIA MURDOCK ESTATE, doing business as The Wichita Eagle, Wichita, Kans. Filed Oct. 29, 1930.

WICHITA EVENING EAGLE

For Daily Newspaper.
Claims use since Mar. 28, 1927.

Ser. No. 307,404. KING FEATURES SYNDICATE, INC., New York, N. Y. Filed Oct. 31, 1930.

The Marry Go Round

For Newspaper Column.
Claims use since Oct. 8, 1929.

Ser. No. 307,503. NORTHWEST POLICE JOURNAL, INC., Seattle, Wash. Filed Nov. 3, 1930.

NORTHWEST
POLICE
JOURNAL

For Periodical.
Claims use since July, 1926.

Ser. No. 307,570. DELL PUBLISHING COMPANY, New York, N. Y. Filed Oct. 31, 1930.

ALL-FICTION

For Magazine Published Monthly.
Claims use since Aug. 14, 1930.

Ser. No. 307,682. LANMAN & KEMP, INC., New York, N. Y. Filed Nov. 8, 1930. Under 10-year proviso.



The picture on the drawing is a portrait of Dr. C. C. Bristol, deceased.
For Almanacs.
Claims use since 1833.

Ser. No. 307,766. CENTRAL PRESS ASSOCIATION, INC., New York, N. Y. Filed Nov. 11, 1930.

SWIFTY

For Newspaper Cartoon.
Claims use since Oct. 13, 1930.

Ser. No. 307,982. MEREDITH PUBLISHING COMPANY, Des Moines, Iowa. Filed Nov. 17, 1930.

The Tasting-Test Kitchen

For Publication Printed at Intermittent Intervals.
Claims use since August, 1930.

Ser. No. 307,985. NATIONAL SOCIETY OF THE SONS OF THE AMERICAN REVOLUTION, Washington, D. C. Filed Nov. 17, 1930.



For Magazine Published Quarterly.
Claims use since December, 1923.

Ser. No. 308,147. MACFADDEN PUBLICATIONS, INC., New York, N. Y. Filed Nov. 20, 1930.

IDEAL VACATIONS

For Magazine Published Periodically.
Claims use since Oct. 30, 1930.

CLASS 39

Clothing

Ser. No. 289,631. WILLIAM H. LICHTENSTEIN, doing business as Peerless Garment Co., Boston, Mass. Filed Sept. 11, 1929.

Nu-Hide

For Raincoats, Hats, and Jackets Made of Textile Material for Men, Women, and Children.
Claims use since July 2, 1929.

Ser. No. 302,860. KRAMER-BRANDEIS, INC., doing business as Londonderry, New York, N. Y. Filed June 26, 1930.

The Llama Cravat



No claim being made to the exclusive use of the words "The Cravat" apart from the mark as shown in the drawing.
For Neckties, Robes, and Mufflers.
Claims use since Dec. 31, 1926.

Ser. No. 303,546. PROVIDENT KNITTING MILLS, Philadelphia, Pa. Filed July 16, 1930.

Chesterfield
OUTER WEAR

The words "Outer Wear" are disclaimed alone and apart from the mark as shown.
For Sweaters and Sweater Coats and Bathing Suits.
Claims use since Feb. 15, 1930.

Ser. No. 303,940. THE AMERICAN HAT CO. INC., Norwalk, Conn. Filed July 29, 1930.

CHEVALIER

For Men's Hats.
Claims use since May 22, 1930.

Ser. No. 304,897. VENUS SILK HOSIERY CO. INC., Tacony, Philadelphia, Pa. Filed Aug. 21, 1930.



No claim being made to the exclusive use of the words "Silk Hosiery Full Fashioned" apart from the mark as shown in the drawing.
For Hosiery.
Claims use since Aug. 14, 1930.

Ser. No. 305,647. BERNOWITZ & GOLDSTEIN, Philadelphia, Pa. Filed Sept. 13, 1930.



The applicant herewith disclaims the word "Clothes" appearing in the trade-mark.
For Men's and Boys' Suits, Overcoats, Topcoats, and Trousers.
Claims use since Apr. 15, 1930.

Ser. No. 306,370. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Oct. 3, 1930.

Nobility

For Men's Four-in-Hand Ties.
Claims use since Aug. 5, 1930.

Ser. No. 306,484. L. BAMBERGER & CO., Newark, N. J. Filed Oct. 7, 1930.

ZERO

For Men's Summer Suits.
Claims use since June, 1918.

Ser. No. 306,606. HUDSON SILK HOSIERY CO., INC., Charlotte, N. C. Filed Oct. 10, 1930.



No claim is made to the word "Quality" apart from the mark shown in the drawing.
For Hosiery.
Claims use since Mar. 10, 1930.

Ser. No. 306,983. VIRGINIA SHOE COMPANY, INC., Fredericksburg, Va. Filed Oct. 20, 1930.

CHIEF-TAN

No claim is made to the right of exclusive use of the word "Tan" apart from the mark as shown on the drawing.
For Shoe Soles Made Wholly or Partly of Leather.
Claims use since Sept. 25, 1930.

Ser. No. 307,093. FUR PRODUCTS COMPANY, Butler, Ind. Filed Oct. 23, 1930.



The drawing is lined to show the color red.
For Helmets and Aviator Caps.
Claims use since May 1, 1930.

Ser. No. 307,127. THE BARSTAIN COMPANY, Malden, Mass. Filed Oct. 24, 1930.



For Waterproof Articles of Sheet Material—Namely, Hat Sweatbands and Bibs and Aprons for Personal Wear.
Claims use since Dec. 28, 1929.

Ser. No. 307,294. WOODWARD & LOTHROP, Washington, D. C. Filed Oct. 28, 1930.

WOODSHIRE

For Men's and Boys' Outer Clothing—Namely, One and Two Piece Trouser Suits, Four-Piece Suits, Two-Piece Golf Suits, Two-Piece Tropical Suits, Overcoats, Topcoats, Raincoats, Knickerbockers, Trousers, Sport Coats, Windbreakers, Waistcoats, Hats, Caps; and Men's and Boys' Furnishings—Namely, House Coats, Bath Robes, Drawers, Pajamas, Undershirts, Nightshirts, Union Suits, Bathing Suits, Dress Shirts, Sweaters, Scarfs, Collars, Hosiery, Blouses, Belts (for Outer Wear), Neckties, Garters, Suspenders, Sweat Shirts; and Men's and Boys' Leather and Fabric Gloves; and Men's and Boys' Boots and Shoes Made of Leather, Rubber, and Fabric and Combinations Thereof; and Men's and Boys' Overshoes, Leggins, and Spats Made of Leather, Rubber, and Fabric and Combinations Thereof.
Claims use since May 26, 1926, on men's clothing; since Sept. 24, 1930, on all other goods listed herein.

Ser. No. 307,900. THE OUTLET COMPANY, Providence, R. I. Filed Nov. 14, 1930.

Hi-Y Prep

For Young Men's Coats, Trousers, and Waistcoats.
Claims use since Nov. 1, 1930.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 307,395. GENERAL SHOE LACE COMPANY, INC., Louisville, Ky. Filed Oct. 31, 1930.

Gold Bond

For Shoe Laces.
Claims use since Aug. 29, 1930.

Ser. No. 307,749. FREDERICK H. TIEDEMANN, Tenafly, N. J. Filed Nov. 10, 1930.



For Combs Except Combs Made of Precious Metal.
Claims use since Nov. 3, 1930.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 280,298. SOUTHERN PILE FABRIC COMPANY, Greenville, S. C. Filed Mar. 5, 1929.



The exclusive right to the words "Seal Finish" is hereby disclaimed apart from the mark shown.
For Upholstery, Velours, Velvets, and Moquettes in the Form of Piece Goods.
Claims use since Mar. 1, 1928.

Ser. No. 295,876. VANETTA VELVET CO., INC., New York, N. Y. Filed Feb. 10, 1930.

VELOUR 500

Applicant hereby disclaims exclusive right to the use of the word "Velour" except as the same is used in connection with the other features of the mark shown on the drawing.
For Pile Fabrics in the Piece.
Claims use since 1927.

Ser. No. 296,994. WELLINGTON, SEARS & COMPANY, Boston, Mass. Filed Mar. 7, 1930.

WELSEA

For Cotton Piece Goods.
Claims use since Nov. 15, 1929.

Ser. No. 304,255. SITROUX IMPORTING CO., INC., New York and Brooklyn, N. Y. Filed Aug. 5, 1930.

IN-FAN-PADS

The word "Pads" is disclaimed apart from the mark as shown on the drawing.
For Sanitary Pads for Infants' Use.
Claims use since Oct. 18, 1928.

Ser. No. 304,256. SITROUX IMPORTING CO., INC., New York and Brooklyn, N. Y. Filed Aug. 5, 1930.

Queen's Pride

For Hair Nets.
Claims use since Feb. 1, 1929.

Ser. No. 306,301. SHENDELL MANUFACTURING COMPANY, INC., New York, N. Y. Filed Oct. 1, 1930.

BEAUVEL

For Piece Goods and Fabrics of Velour, Cotton, Damask, Silk, Rayon, and/or Mohair.
Claims use since Mar. 1 1930.

Ser. No. 306,302. SHENDELL MANUFACTURING COMPANY, INC., New York, N. Y. Filed Oct. 1, 1930.

BEAUVEL

For Portières, Furniture Scarfs, Draperies, and Valancing Made of Velour, Cotton, Damask, Silk, Rayon, and/or Mohair.
Claims use since Mar. 1, 1930.

Ser. No. 306,669. FALK SHERMAN, New York, N. Y. Filed Oct. 11, 1930.



For Cotton Sheets, Sheeting, Pillowcases, and Quilt Covers.
Claims use since Sept. 26, 1930.

Ser. No. 306,800. LAZARE L. MAYER, New York, N. Y. Filed Oct. 15, 1930.

SONEETA

For Hairnets, Silk Nets, Water-Wave Nets.
Claims use since Oct. 15, 1929.

Ser. No. 307,619. J. B. DAVID, New York, N. Y., and St. Etienne, France. Filed Nov. 7, 1930.



The figure being fanciful and no claim being made to the exclusive use of the representation of the word "Brand" apart from the mark as shown in the drawing.
For Velvet Ribbon in the Piece.
Claims use since May 7, 1925.

Ser. No. 307,669. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Nov. 8, 1930.

Chongella

For Woolen Piece Goods.
Claims use since Oct. 1, 1930.

Ser. No. 307,670. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Nov. 8, 1930.

Velchonga

For Woolen Piece Goods.
Claims use since Oct. 1, 1930.

Ser. No. 307,671. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Nov. 8, 1930.

Chongaleen

For Woolen Piece Goods.
Claims use since Oct. 1, 1930.

Ser. No. 307,934. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Nov. 15, 1930.

Carella

For Woolen Piece Goods.
Claims use since Oct. 1, 1930.

Ser. No. 307,937. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Nov. 15, 1930.

Merrizeen

For Woolen Piece Goods.
Claims use since Oct. 1, 1930.

Ser. No. 307,939. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Nov. 15, 1930.

Ormina

For Woolen Piece Goods.
Claims use since Oct. 1, 1930.

Ser. No. 307,940. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Nov. 15, 1930.

Senta

For Woolen Piece Goods.
Claims use since Oct. 1, 1930.

Ser. No. 307,941. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Nov. 15, 1930.

Vanda

For Woolen Piece Goods.
Claims use since Oct. 1, 1930.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 299,303. WILLIAM H. DOTY, Oakland, Calif. Filed Apr. 23, 1930.

OXYOZONE

For Machines for Generating and Liberating Ozonized Vapors of Therapeutic Value.
Claims use since July, 1928.

Ser. No. 304,259. STERILEK COMPANY, INC., New York and Brooklyn, N. Y. Filed Aug. 5, 1930.



For Catamenial Bandages.
Claims use since Aug. 26, 1927.

Ser. No. 304,260. STERILEK COMPANY, INC., New York and Brooklyn, N. Y. Filed Aug. 5, 1930.



The term "Fourpaks" is disclaimed apart from the mark as shown on the drawing.
For Catamenial Bandages.
Claims use since Oct. 22, 1927.

Ser. No. 304,261. STERILEK COMPANY, INC., New York, and Brooklyn, N. Y. Filed Aug. 5, 1930.



For Catamenial Bandages.
Claims use since July 21, 1927.

Ser. No. 307,100. ADAM MARSHALL, Newark, N. J. Filed Oct. 23, 1930.

MARSHALL'S
Flexlite
ARCH SUPPORTS

The words "Arch Supports" are disclaimed apart from the mark as shown.
For Arch Supports.
Claims use since Apr. 25, 1930.

Ser. No. 307,243. THE SCHOLL MFG. CO., INC., Chicago, Ill. Filed Oct. 27, 1930.

Dr. Scholl's
Toe-Flex
For Bunions
DEVICES FOR ALL FOOT AILMENTS



Applicant disclaims the words "For Bunions", "Devices for All Foot Ailments," and the word "Toe," together with the representation of the goods apart from the other features contained in the drawing.

For Foot-Corrective Appliances for Bunions and Overlapping Toes.

Claims use since Feb. 1, 1914.

Ser. No. 307,393. LUIS GARRATON S. EN C., San Juan, Porto Rico. Filed Oct. 31, 1930.

EL SABLE



For Prophylactic Rubber Articles for the Prevention of Contagious Diseases.

Claims use since November, 1928.

CLASS 45

Beverages, Nonalcoholic

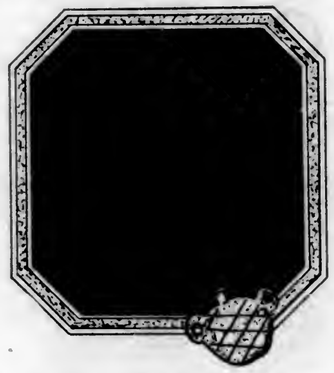
Ser. No. 305,809. ADOLPH FRIEDBERG, Montreal, Quebec, Canada. Filed Sept. 18, 1930.

Mayfruit

For Nonalcoholic, Maltless Beverage Sold as a Soft Drink and Syrups for Making the Same.

Claims use since Sept. 2, 1930.

Ser. No. 308,058. CALIFORNIA CRUSHED FRUIT CORPORATION, Los Angeles, Calif. Filed Nov. 19, 1930.



For Nonalcoholic, Maltless, Noncereal Beverages and Syrups, Extracts, and Concentrates for Use in Preparing the Same.

Claims use since Jan. 1, 1928.

CLASS 46

Foods and Ingredients of Foods

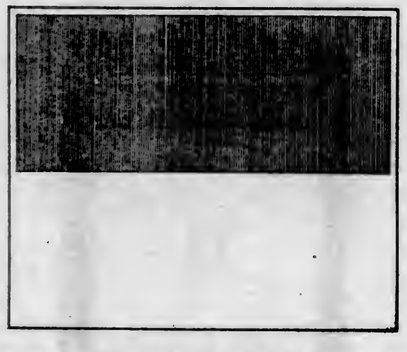
Ser. No. 272,286. KRAFT-PHENIX CHEESE COMPANY, Chicago, Ill., now by change of name K-P-C Company, assignor to Kraft-Phenix Cheese Corporation, Chicago, Ill., a Corporation of Illinois. Filed Sept. 12, 1928.

MAC LAREN'S
IMPERIAL

For Mayonnaise, Salad Dressing, and Relish Spread.

Claims use since June 1, 1922.

Ser. No. 283,661. CARNATION MILK PRODUCTS COMPANY, Oconomowoc, Wis., now by change of name Carnation Company. Filed May 8, 1929.



The trade-mark consists of two equally-disposed panels, the uppermost being red and the lowermost being white. The lining in the drawing indicates the color red. No claim is made to the border lines.

For Ice Cream.

Claims use since Jan. 25, 1916.

Ser. No. 283,662. CARNATION MILK PRODUCTS COMPANY, Oconomowoc, Wis., now by change of name Carnation Company. Filed May 8, 1929.



For Ice Cream.

Claims use since Jan. 25, 1916.

Ser. No. 290,157. SUTTER COOPERATIVE GROWERS, San Francisco, Calif. Filed Sept. 23, 1929.

WESTCAL

For Canned Fruits and Canned Vegetables.

Claims use since June 15, 1919.

Ser. No. 295,026. GOLDEN NUGGET SWEETS, San Francisco, Calif. Filed Jan. 21, 1930.

DATED

For Candy.

Claims use since Jan. 16, 1930.

Ser. No. 295,053. RICHMAN & SAMUELS INC., New York, N. Y. Filed Jan. 21, 1930.



For Fresh Deciduous Fruits, Fresh Vegetables, Fresh Cantaloupes.

Claims use since June 1, 1925.

Ser. No. 296,789. WHITE-STOKES COMPANY, INC., Chicago, Ill. Filed Mar. 3, 1930.

Ann Douglas

The name "Ann Douglas" is the name of a deceased celebrity, famous as a hostess at the Old Globe Tavern, in Boston, in prerevolutionary days.

For Cake and Cake Mixes.

Claims use since Feb. 25, 1930.

Ser. No. 297,187. GOLDEN EAGLE MILLING CO., Petaluma, Calif. Filed Mar. 12, 1930.

GEMCO

For Dairy and Poultry Foods.

Claims use since May 15, 1923.

Ser. No. 297,871. L. V. PEASE & COMPANY, Seattle, Wash. Filed Mar. 25, 1930.

BUTTERFLY

For Walnuts Shelled and Unshelled and in Their Natural State.

Claims use since November, 1929.

Ser. No. 303,549. RICHMAN & SAMUELS, INC., New York, N. Y. Filed July 16, 1930.

SWEET SUE

For Fresh Deciduous Fruits.

Claims use since June 5, 1930.

Ser. No. 304,347. JOSEPH A. SCHLESINGER, Atlanta, Ga. Filed Aug. 7, 1930.

HLS

For Candy.
Claims use since April, 1925.

Ser. No. 304,749. CALIFORNIA AND HAWAIIAN SUGAR REFINING CORPORATION, LIMITED, doing business as C & H Sugar Refining Corporation, San Francisco, Calif. Filed Aug. 19, 1930.

MENU

For Sugar.
Claims use since July 30, 1930.

Ser. No. 305,716. MEXICAN GULF PACKING CO. INC., Pascagoula, Miss. Filed Sept. 15, 1930.

Oleander

For Canned Shrimp.
Claims use since Aug. 25, 1930.

Ser. No. 306,934. CHANEY & ROWELL, INC., Nampa, Idaho. Filed Oct. 20, 1930.

Ida-Best

The descriptive word "Best" is hereby disclaimed apart from the other features of the mark as shown.
For Fresh Deciduous Fruits.
Claims use since Sept. 11, 1930.

Ser. No. 307,038. THE BEATRICE CREAMERY COMPANY, Chicago, Ill. Filed Oct. 22, 1930.

Meadow Gold

For Butter and Ice Cream.
Claims use since May 7, 1929.

Ser. No. 307,275. FORREST B. MAKECHNIE, Boston, Mass. Filed Oct. 28, 1930.



For Ice Cream.
Claims use since Oct. 17, 1930.

Ser. No. 307,276. FORREST MAKECHNIE, Boston, Mass. Filed Oct. 28, 1930.

Frostots

For Ice Cream.
Claims use since Oct. 17, 1930.

Ser. No. 307,346. COLD SNAP INCORPORATED, New York, N. Y. Filed Oct. 30, 1930.

cold snap

For Frozen Confection.
Claims use since Mar. 26, 1930.

Ser. No. 307,356. THE HUBINGER COMPANY, Keokuk, Iowa. Filed Oct. 30, 1930.

LEAVENOL

For Syrup Product Made from Corn Used in the Leavening of Bread Stuffs, Cakes, Pastries, and Kindred Products.
Claims use since Oct. 13, 1930.

Ser. No. 307,556. THE LIGHT GRAIN & MILLING CO., Liberal, Kans. Filed Nov. 5, 1930.

Light's

TRIPLE-A-A-A

For Wheat Flour.
Claims use since Oct. 25, 1930.

Ser. No. 307,575. BEATRICE CREAMERY COMPANY, Chicago, Ill. Filed Nov. 6, 1930.

PIONEER

Applicant is the owner of registration Number 151,908.
For Butter.
Claims use since 1902.

Ser. No. 307,631. THE RHODES RANCH EGG COMPANY, Denver, Colo. Filed Nov. 7, 1930.

Rhodes
SEELED FRESH

Exclusive use of the words "Seeled Fresh" is claimed only in association with the other features of the mark shown.
For Eggs.
Claims use since Sept. 1, 1930.

Ser. No. 307,806. FISHER FLOURING MILLS COMPANY, West Waterway, Harbor Island, Seattle, Wash. Filed Nov. 12, 1930.

SPONGE TOP

For Wheat Flour.
Claims use since Sept. 19, 1930.

Ser. No. 307,841. BURCH MANUFACTURING COMPANY, Kansas City, Mo. Filed Nov. 13, 1930.

Kandyjax

For Candied Pop Corn.
Claims use since Sept. 1, 1930.

Ser. No. 307,957. SCARAMELLI & COMPANY, INC., New York, N. Y. Filed Nov. 15, 1930.

TEVERE

For Cheese.
Claims use since Sept. 1, 1930.

Ser. No. 308,068. ERNEST S. HASS, Williams, Calif. Filed Nov. 19, 1930.

EL COLMO RANCHO

For Cattle.
Claims use since Feb. 2, 1924.

Ser. No. 308,073. AXEL VALDEMAR KLINGENBERG, Copenhagen, Denmark. Filed Nov. 19, 1930.

TOBAGUM

For Chewing Gum.
Claims use since May 1, 1929.

Ser. No. 308,114. ITEN BISCUIT COMPANY, Omaha, Nebr. Filed Nov. 20, 1930.

SUNNYROONS

For Biscuit, Cake, Crackers, and Cookies.
Claims use since July 17, 1930.

CLASS 48

Malt Beverages and Liquors

Ser. No. 302,514. RAMONA BREW ASSOCIATES, Washington, D. C. Filed June 17, 1930.

RAMONA

For Malt Beverages Containing Less Than One-Half of One Per Cent of Alcohol, by Volume.
Claims use since June 9, 1930.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 305,629. STERIL MANUFACTURING COMPANY, Omaha, Nebr. Filed Sept. 12, 1930.

KONCEALO

For Grave Linings Made of Woven Goods and Loose Fibers to Resemble Grass.
Claims use since May 5, 1930.

Ser. No. 307,479. CROWN CORK & SEAL COMPANY, INC., Baltimore, Md. Filed Nov. 3, 1930.

RAYO

For Caps and Closure Members for Containers.
Claims use since Apr. 18, 1930.

Ser. No. 307,879. ALUMINUM COMPANY OF AMERICA, Pittsburgh, Pa. Filed Nov. 14, 1930.

ALCOA

For Caps and Closure Seals for Bottles and Other Containers.
Claims use since May 21, 1930.

Ser. No. 307,880. ALUMINUM COMPANY OF AMERICA, Pittsburgh, Pa. Filed Nov. 14, 1930.

ALCOA



For Caps and Closure Seals for Bottles and Other Containers.
Claims use since May 21, 1930.

Ser. No. 307,991. QUEEN STOVE WORKS INCORPORATED, Albert Lee, Minn. Filed Nov. 17, 1930.

NUAIR

For Poultry-Husbandry Apparatus—Namely, Brooders.
Claims use since Oct. 30, 1930.

Ser. No. 307,992. RESPRO INC., Cranston, R. I. Filed Nov. 17, 1930.

TUFLEX

For Leather Substitute.
Claims use since March, 1929.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

DECEMBER 30, 1930

278,692. GINGER ALE AND NONALCOHOLIC, MALTLESS SYRUPS FOR MAKING SOFT DRINKS. THOMAS E. OFIESH, Altoona, Pa.
Filed August 23, 1930. Serial No. 304,970. PUBLISHED OCTOBER 21, 1930. Class 45.

278,693. MALTLESS CONCENTRATES OF ALL FLAVORS USED IN THE PREPARATION OF SOFT DRINKS. FLORASYNTH LABORATORIES INC., New York, N. Y.
Filed August 20, 1930. Serial No. 304,805. PUBLISHED OCTOBER 14, 1930. Class 45.

278,694. HAIR-STRAIGHTENING FLUID. MARSHALLENE COSMETIC CO., Montgomery, Ala.
Filed August 18, 1930. Serial No. 304,730. PUBLISHED OCTOBER 7, 1930. Class 6.

278,695. MALT BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT ALCOHOL BY VOLUME. C. SCHMIDT AND SONS, INCORPORATED, Philadelphia, Pa.
Filed August 16, 1930. Serial No. 304,698. PUBLISHED OCTOBER 14, 1930. Class 48.

278,696. CEREAL BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT ALCOHOL BY VOLUME. PABST CORPORATION, Milwaukee, Wis.
Filed August 7, 1930. Serial No. 304,341. PUBLISHED OCTOBER 14, 1930. Class 48.

278,697. NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. BESSEMER BOTTLING COMPANY, Bessemer, Ala.
Filed August 7, 1930. Serial No. 304,309. PUBLISHED OCTOBER 14, 1930. Class 45.

278,698. CHEMICALS USED AS ANTIOXIDANTS FOR RUBBER. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed July 29, 1930. Serial No. 303,954. PUBLISHED OCTOBER 7, 1930. Class 6.

278,699. CHEMICALS USED IN THE MANUFACTURE OF RUBBER WHICH ACCELERATE VULCANIZATION. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed July 29, 1930. Serial No. 303,953. PUBLISHED OCTOBER 7, 1930. Class 6.

278,700. MEDICINAL PREPARATIONS USED IN THE TREATMENT OF ECZEMA, PERSPIRING, SORE, AND TENDER FEET. BERTRAM E. BRADEN, doing business as Oh-Mi Laboratories, Washington, D. C.
Filed July 29, 1930. Serial No. 303,944. PUBLISHED SEPTEMBER 30, 1930. Class 6.

278,701. CHEMICAL DYE AIDS—NAMELY, MOISTENING PREPARATIONS, THREAD AND FIBRE PROTECTING PREPARATIONS, THREAD AND FIBRE PENETRATING PREPARATIONS, SMOOTHING PREPARATIONS, TANNING PREPARATIONS, AND BLEACHING PREPARATIONS. H. TH. BÖHME A. G., Chemnitz, Germany.
Filed July 19, 1930. Serial No. 303,624. PUBLISHED SEPTEMBER 30, 1930. Class 6.

278,702. HAIR RESTORER. ALBERT A. HIBLER, doing business as New-Best Company, West End, Pittsburgh, Pa.
Filed July 9, 1930. Serial No. 303,288. PUBLISHED OCTOBER 7, 1930. Class 6.

278,703. PRODUCT FOR DEMULSIFYING EMULSIONS OF MINERAL OILS. CURO PROCESS COMPANY, Bartlesville, Okla.
Filed June 26, 1930. Serial No. 302,854. PUBLISHED SEPTEMBER 30, 1930. Class 6.

278,704. PREPARATION FOR TREATING CORNS, CALLOUSES, BUNIONS, WARTS, AND INGROWING TOENAILS. JACK WALDMAN, doing business as Korn-Pop Corn Remedy Company, Philadelphia, Pa.
Filed June 25, 1930. Serial No. 302,844. PUBLISHED SEPTEMBER 30, 1930. Class 6.

278,705. PREPARATION COMPOSED OF AROMATICS, ANTACIDS, AND DIGESTIVES IN TABLET FORM AND USED IN THE TREATMENT OF DISORDERS OF DIGESTION. SANOZYM, INCORPORATED, New York, N. Y.
Filed June 25, 1930. Serial No. 302,834. PUBLISHED OCTOBER 7, 1930. Class 6.

278,706. AN ANTISEPTIC, HEALING, INVIGORATING LIQUID FOR EXTERNAL USE IN RUBBING, BATH AND MASSAGE. HANCE BROTHERS & WHITE, INC., Philadelphia, Pa.
Filed June 25, 1930. Serial No. 302,822. PUBLISHED SEPTEMBER 30, 1930. Class 6.

278,707. PREPARATION FOR TREATING LEUCORRHEA FOR ELIMINATING OFFENSIVE ODORS, AND FOR CLEANING THE HUMAN ORGANS. ROSE BERGIN, doing business as Belle T. Crowe Laboratories, Kansas City, Mo.
Filed June 5, 1930. Serial No. 302,176. PUBLISHED OCTOBER 7, 1930. Class 6.

278,708. WATER-SOFTENING MATERIAL, BEING EITHER ARTIFICIAL OR NATURAL ZEOLITES. ARIZONA MINERALS CORPORATION, Yuma, Ariz.
Filed May 31, 1930. Serial No. 301,778. PUBLISHED SEPTEMBER 30, 1930. Class 6.

278,709. FRESH CITRUS FRUITS. FUGAZZI-PINELLAS GROVE CO., Clearwater, Fla., and Cincinnati, Ohio.
Filed September 11, 1930. Serial No. 305,565. PUBLISHED OCTOBER 21, 1930. Class 46.

278,710. COFFEE. HERBERT WESLEY REID, Brooklyn, N. Y.
Filed September 9, 1930. Serial No. 305,493. PUBLISHED OCTOBER 21, 1930. Class 46.

278,711. COFFEE. STANDARD BRANDS INCORPORATED, New York, N. Y.
Filed September 4, 1930. Serial No. 305,326. PUBLISHED OCTOBER 14, 1930. Class 46.

278,712. CAKES, SLABS, BLOCKS, OR BARS OF A CHEMICAL PREPARATION. HERMAN MARGOLIS, doing business as Margo Sales Company, Philadelphia, Pa.
Filed March 19, 1930. Serial No. 297,535. PUBLISHED SEPTEMBER 30, 1930. Class 6.

278,713. STEEL AND MALLEABLE-IRON CASTINGS. JEWELL STEEL & MALLEABLE CO., Buffalo, N. Y.
Filed February 28, 1930. Serial No. 296,649. PUBLISHED OCTOBER 14, 1930. Class 14.

278,714. POTATOES IN THEIR NATURAL STATE. GEO. A. HALL CO., Houlton, Me.
Filed February 24, 1930. Serial No. 296,463. PUBLISHED OCTOBER 21, 1930. Class 46.

278,715. ELECTRIC LAUNDRY WASHING MACHINES. THE HIRSCHY COMPANY, Duluth, Minn.
Filed February 15, 1930. Serial No. 296,058. PUBLISHED OCTOBER 14, 1930. Class 24.

278,716. CARBON PAPER, PRINTING INKS, AND TYPEWRITER RIBBONS. IRVING A. LOSEY, doing business as Alpine Ribbon & Carbon Company, Cleveland, Ohio.
Filed February 13, 1930. Serial No. 295,979. PUBLISHED OCTOBER 14, 1930. Class 11.

278,717. CANNED VEGETABLES—NAMELY, CANNED POTATOES. SOUTHERN POTATO PRODUCTS CO., INC., Palatka, Fla.
Filed February 12, 1930. Serial No. 295,961. PUBLISHED OCTOBER 14, 1930. Class 46.

278,718. DOOR PLATES. CONSOLIDATED FACTORIES, LTD., Santa Ana, Calif.
Filed February 10, 1930. Serial No. 295,836. PUBLISHED OCTOBER 14, 1930. Class 13.

278,719. TALCUM AND FACE POWDER, CREAMS, TOILET WATER, ETC. FERGUSON BEAUTY SHOPPE, Pontiac, Mich.
Filed February 1, 1930. Serial No. 295,475. PUBLISHED OCTOBER 7, 1930. Class 6.

278,720. CANVAS WORK GLOVES. INDIANAPOLIS GLOVE COMPANY, Indianapolis, Ind.
Filed January 13, 1930. Serial No. 294,727. PUBLISHED OCTOBER 14, 1930. Class 39.

278,721. MEDICINES AND PHARMACEUTICAL PREPARATIONS IN THE FORM OF COMPOUNDS CONTAINING COD-LIVER OIL FOR USE AS GENERAL TONICS FOR HUMAN USE. WATERBURY CHEMICAL COMPANY, INC., New York, N. Y.
Filed January 11, 1930. Serial No. 294,699. PUBLISHED JUNE 17, 1930. Class 6.

278,722. FERTILIZER—NAMELY, SULPHATE OF AMMONIA. CENTRAL IRON & COAL COMPANY, New York, N. Y.
Filed January 8, 1930. Serial No. 294,500. PUBLISHED OCTOBER 21, 1930. Class 10.

278,723. EYEWASH. SOLOMON M. SAGER, Evanston, Ill.
Filed December 19, 1929. Serial No. 293,899. PUBLISHED SEPTEMBER 16, 1930. Class 6.

278,724. WRAPPING AND PRINTING PAPER AND CONVERTING PAPERS USED IN THE MAKING OF PAPER BAGS, BOXES, NAPKINS, NOVELTIES, ENVELOPES, GUMMED TAPE, MUSIC ROLLS, TABLE TOPS, AND TIRE-WRAPPING PAPER. NEKOOSA-EDWARDS PAPER COMPANY, Port Edwards, Wis.
Filed November 23, 1929. Serial No. 292,819. PUBLISHED OCTOBER 14, 1930. Class 37.

278,725. CANNED SALMON. I. ROKEACH & SONS, INC., Brooklyn, N. Y.
Filed November 8, 1929. Serial No. 292,181. PUBLISHED OCTOBER 21, 1930. Class 46.

278,726. CANNED SALMON. I. ROKEACH & SONS, INC., Brooklyn, N. Y.
Filed November 8, 1929. Serial No. 292,180. PUBLISHED OCTOBER 21, 1930. Class 46.

278,727. EMCA PATENT PASS-OUT CHECKS. MUSIC CORPORATION OF AMERICA, Chicago, Ill.
Filed October 24, 1929. Serial No. 291,521. PUBLISHED OCTOBER 14, 1930. Class 50.

278,728. DRIVE SHAFTS, PINION SHAFTS, WORM GEARS, AND WORM SHAFTS. LEMPCO PRODUCTS, INC., Bedford, Ohio; New York, N. Y.; Chicago, Ill.; San Francisco, Calif.; Atlanta, Ga.; and Dallas, Tex.
Filed October 21, 1929. Serial No. 291,342. PUBLISHED OCTOBER 14, 1930. Class 23.

278,729. TIRES, TIRE SHOES AND INNER TUBES THEREFOR, OUTSIDE TIRE PROTECTORS, ETC. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed October 18, 1929. Serial No. 291,215. PUBLISHED OCTOBER 14, 1930. Class 35.

278,730. FRESH, CANNED, AND FROZEN FRUITS. R. D. BODLE CO., doing business as Valley Fruit Canning Co., Seattle, Wash.
Filed September 28, 1929. Serial No. 290,113. PUBLISHED OCTOBER 21, 1930. Class 46.

278,731. CLOCKS. WILLIAM L. GILBERT CLOCK COMPANY, Winsted, Conn.
Filed September 17, 1929. Serial No. 289,892. PUBLISHED OCTOBER 14, 1930. Class 27.

278,732. STEAM AND WATER PIPING, COUPLINGS, AND NIPPLES. AIR-WAY ELECTRIC APPLIANCE CORPORATION, Toledo, Ohio.
Filed September 9, 1930. Serial No. 305,470. PUBLISHED OCTOBER 21, 1930. Class 13.

278,733. BICYCLES AND PARTS THEREOF. ANKER-WERKE A. G., Bielefeld, Germany.
Filed August 29, 1930. Serial No. 305,129. PUBLISHED OCTOBER 14, 1930. Class 19.

278,734. FLYING MACHINES. CONSOLIDATED AIRCRAFT CORPORATION, Buffalo, N. Y.
Filed August 28, 1930. Serial No. 305,099. PUBLISHED OCTOBER 14, 1930. Class 19.

278,735. BURIAL VAULTS. THE ROYAL VAULT MANUFACTURING CO., Ottumwa, Iowa.
Filed August 27, 1930. Serial No. 305,089. PUBLISHED OCTOBER 21, 1930. Class 2.

278,736. METAL PIPE AND TUBING. THE YOUNGSTOWN SHEET & TUBE COMPANY, Youngstown, Ohio.
Filed August 26, 1930. Serial No. 305,022. PUBLISHED OCTOBER 14, 1930. Class 13.

278,737. PNEUMATIC VALVE STEMS, DUST CAPS, VALVE CAPS, RIM NUTS, HEX NUTS, RIM-NUT BUSHINGS, AIR-BAG STEMS, PNEUMATIC-TIRE VALVES, SPREADERS FOR USE WITH PNEUMATIC VALVE STEMS. THE DILL MANUFACTURING COMPANY, Cleveland, Ohio.
Filed August 13, 1930. Serial No. 304,541. PUBLISHED OCTOBER 14, 1930. Class 13.

278,738. VULCANIZED-FIBRE CASE FOR SHIPPING LAUNDRY. MORRIS BRAUNSTEIN, New York, N. Y.
Filed August 25, 1930. Serial No. 304,990. PUBLISHED OCTOBER 21, 1930. Class 2.

278,739. CONTAINERS—VIZ, BARRELS, BASKETS, AND CANS MADE OF PLYWOOD. NORTHERN MAINE PLYWOOD COMPANY, Portland, Me.
Filed August 13, 1930. Serial No. 304,570. PUBLISHED OCTOBER 21, 1930. Class 2.

278,740. WIRE FENCING. THE HUDSON WIRE AND IRON COMPANY, Tulsa, Okla.
Filed August 11, 1930. Serial No. 304,463. PUBLISHED OCTOBER 14, 1930. Class 13.

278,741. MANILLA ROPE. THE UPSON-WALTON COMPANY, Cleveland, Ohio.
Filed August 9, 1930. Serial No. 304,439. PUBLISHED OCTOBER 21, 1930. Class 7.

278,742. DUMP TRUCKS. THE WINSOR COMPANY, Bucyrus, Ohio.
Filed August 4, 1930. Serial No. 304,227. PUBLISHED OCTOBER 21, 1930. Class 19.

278,743. CUPS MADE OF SYNTHETIC PLASTIC MATERIAL. T.N. BENEDICT MFG. CO., East Syracuse, N.Y.
Filed August 1, 1930. Serial No. 304,092. PUBLISHED OCTOBER 21, 1930. Class 2.

278,744. UNDERFEED-STOKER COAL BURNERS. WILLIAM F. MILLER, doing business as Aladdin Coal Company, Evansville, Ind.
Filed July 22, 1930. Serial No. 303,723. PUBLISHED OCTOBER 14, 1930. Class 34.

278,745. MOTOR BOATS, SPEED BOATS, CRUISERS, MARINE RUNABOUTS, AND HYDROPLANES. HORACE E. DODGE BOAT & PLANE CORPORATION, New York, N. Y.
Filed July 1, 1930. Serial No. 303,023. PUBLISHED OCTOBER 14, 1930. Class 19.

278,746. UNDERFEED STOKERS. MARION MACHINE, FOUNDRY & SUPPLY CO., Marion, Ind.
Filed June 23, 1930. Serial No. 302,735. PUBLISHED OCTOBER 14, 1930. Class 34.

278,747. COAL AND WOOD STOVES AND RANGES AND GAS RANGES. EUREKA STEEL RANGE COMPANY, O'Fallon, Ill.
Filed June 13, 1930. Serial No. 302,378. PUBLISHED OCTOBER 21, 1930. Class 34.

278,748. STOVES AND RANGES FOR USE WITH COAL, WOOD, AND GAS. EUREKA STEEL RANGE COMPANY, O'Fallon, Ill.
Filed June 13, 1930. Serial No. 302,377. PUBLISHED OCTOBER 21, 1930. Class 34.

278,749. FRUIT JUICES AND EXTRACTS USED IN THE PREPARATION OF NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. POLAK & SCHWARZ, Zaandam, Netherlands, and New York, N. Y.
Filed May 28, 1930. Serial No. 301,505. PUBLISHED OCTOBER 14, 1930. Class 45.

278,750. FRUIT JUICES AND EXTRACTS USED IN THE PREPARATION OF NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. POLAK & SCHWARZ, Zaandam, Netherlands, and New York, N. Y.
Filed May 28, 1930. Serial No. 301,503. PUBLISHED OCTOBER 14, 1930. Class 45.

278,751. HANDKERCHIEFS. LEONARD K. LIPSON, doing business as the Oxford Handkerchief Company, New York, N. Y.
Filed August 6, 1930. Serial No. 304,289. PUBLISHED SEPTEMBER 30, 1930. Class 42.

278,752. LATHES AND AUTOMATIC METAL-TURNING MACHINES AND MACHINES FOR GRINDING SURFACES ON METAL ARTICLES. SENECA FALLS MACHINE COMPANY, Seneca Falls, N. Y.
Filed August 4, 1930. Serial No. 304,217. PUBLISHED OCTOBER 14, 1930. Class 23.

278,753. WALL TILES. STANDARD WALL COVERING COMPANY, INC., Philadelphia, Pa.
Filed July 11, 1930. Serial No. 303,403. PUBLISHED OCTOBER 7, 1930. Class 12.

278,754. OIL-FIELD WINCHES, PIPE-LINE WINCHES, INDUSTRIAL WINCHES, VARIABLE-SPEED DRIVES, CORE-DRILL SLUSH-PUMP MOUNTINGS, TRENCH BACK FILLERS, AND PIPE BENDERS. ALLSTEEL PRODUCTS MANUFACTURING COMPANY, Wichita, Kans.
Filed July 8, 1930. Serial No. 303,242. PUBLISHED OCTOBER 14, 1930. Class 23.

278,755. HAMS, BACON, SLICED BACON, SAUSAGE, AND LARD. KINGAN & CO. INCORPORATED, Indianapolis, Ind.
Filed November 13, 1930. Serial No. 307,850. Class 46.

278,756. COW MANURE AND PEAT MOSS DEHYDRATED AND PEAT-MOSS SOIL IMPROVER. ATKINS & DURBROW, INC., New York, N. Y.
Filed July 29, 1930. Serial No. 303,987. PUBLISHED OCTOBER 14, 1930. Class 10.

278,757. MIXED FERTILIZERS, COTTONSEED MEAL, CASTOR POMACE, CASTOR MEAL, SUPERPHOSPHATE, SULPHATE OF AMMONIA, CALCIUM NITRATE, SULPHATE OF POTASH, AND SODIUM NTRATE. THE DAVISON CHEMICAL COMPANY, Baltimore, Md.
Filed July 29, 1930. Serial No. 303,951. PUBLISHED OCTOBER 14, 1930. Class 10.

278,758. HAND SCRUBBING BRUSHES AND TOOTHBRUSHES. INDEPENDENT DRUGGISTS' ALLIANCE DISTRIBUTING CO., Chicago, Ill.
Filed July 28, 1930. Serial No. 303,898. PUBLISHED OCTOBER 14, 1930. Class 29.

278,759. CIGARS, CIGARETTES, AND SMOKING TOBACCO. INDEPENDENT DRUGGISTS' ALLIANCE DISTRIBUTING CO., Chicago, Ill.
Filed July 28, 1930. Serial No. 303,896. PUBLISHED OCTOBER 14, 1930. Class 17.

278,760. WRITING INK. INDEPENDENT DRUGGISTS' ALLIANCE DISTRIBUTING CO., Chicago, Ill.
Filed July 28, 1930. Serial No. 303,895. PUBLISHED OCTOBER 14, 1930. Class 11.

278,761. TIME-INDICATING DEVICE IN THE NATURE OF A CLOCK. ALBERT E. FREEL, doing business as Freel Timometer Company, Owensboro, Ky.
Filed July 24, 1930. Serial No. 303,766. PUBLISHED OCTOBER 14, 1930. Class 27.

278,762. METALS AND ALLOYS THEREOF ADAPTED TO MAKE METAL WORKING AND CUTTING TOOLS, HAVING PARTICULAR REFERENCE TO REFRACTORY METALS SUCH AS TANTALUM, COLUMBIUM, OR TUNGSTEN AND ALLOYS THEREOF, SUCH AS CEMENTED CARBIDES. FANSTEEL PRODUCTS COMPANY, INC., North Chicago, Ill.
Filed July 24, 1930. Serial No. 303,764. PUBLISHED OCTOBER 14, 1930. Class 14.

278,763. WRITING INK. L. E. WATERMAN COMPANY, New York, N. Y.
Filed July 19, 1930. Serial No. 303,670. PUBLISHED OCTOBER 14, 1930. Class 11.

278,764. WRITING INK. L. E. WATERMAN COMPANY, New York, N. Y.
Filed July 19, 1930. Serial No. 303,669. PUBLISHED OCTOBER 14, 1930. Class 11.

278,765. WRITING INK. L. E. WATERMAN COMPANY, New York, N. Y.
Filed July 19, 1930. Serial No. 303,668. PUBLISHED OCTOBER 14, 1930. Class 11.

278,766. CARPET SWEEPERS. BLOOMINGDALE BROS., INC., New York, N. Y.
Filed July 18, 1930. Serial No. 303,595. PUBLISHED OCTOBER 14, 1930. Class 29.

278,767. FERTILIZERS, PARTICULARLY LEAF-MOLD HUMUS. OLD LEAF MOLD HUMUS CORPORATION, Indianapolis, Ind.
Filed July 17, 1930. Serial No. 303,574. PUBLISHED OCTOBER 14, 1930. Class 10.

278,768. STACK COVERS MADE OF REINFORCED WATERPROOF PAPER CONSISTING OF TWO SHEETS OF CRAFT PAPER CEMENTED TOGETHER WITH ASPHALT REINFORCED THROUGH THE ASPHALT WITH CORDAGE. ELMER ABRAMSON, St. Louis, Mo., assignor to Central States Paper and Bag Co., St. Louis, Mo., a Corporation of Missouri.
Filed July 7, 1930. Serial No. 303,145. PUBLISHED OCTOBER 14, 1930. Class 50.

278,769. LADIES', MISSES', AND CHILDREN'S HATS. COARI HATS, INC., New York, N. Y.
Filed May 29, 1930. Serial No. 301,582. PUBLISHED OCTOBER 14, 1930. Class 39.

278,770. FRESH CITRUS FRUITS—NAMELY, ORANGES, GRAPEFRUIT, AND TANGERINES. L. MANCY, INC., also doing business as Tropical Products Co., Frostproof, Fla.
Filed May 26, 1930. Serial No. 301,276. PUBLISHED OCTOBER 14, 1930. Class 46.

278,771. ASTRINGENTS, ASTRINGENT CERATES, BLEACH AND BEAUTY CREAMS, ETC. JEAN STUART COSMETICS, INC., New Haven, Conn.
Filed August 14, 1930. Serial No. 304,618. PUBLISHED OCTOBER 7, 1930. Class 6.

278,772. ASTRINGENTS, ASTRINGENT CERATES, BLEACH AND BEAUTY CREAMS, ETC. JEAN STUART COSMETICS, INC., New Haven, Conn.
Filed August 14, 1930. Serial No. 304,617. PUBLISHED OCTOBER 7, 1930. Class 6.

278,773. CHOCOLATE LAXATIVE TABLETS. TRU-LAX PRODUCTS COMPANY, Newark, N. J.
Filed August 12, 1930. Serial No. 304,523. PUBLISHED OCTOBER 7, 1930. Class 6.

278,774. SULPHONATED CASTOR OIL. BICK AND COMPANY, INC., Reading, Pa.
Filed August 12, 1930. Serial No. 304,484. PUBLISHED OCTOBER 7, 1930. Class 6.

278,775. ANTISEPTICS, DISINFECTANTS, AND ODORLESS DEODORANTS. THE G. R. POWELL CHEMICAL COMPANY, Cleveland, Ohio.
Filed August 9, 1930. Serial No. 304,426. PUBLISHED OCTOBER 7, 1930. Class 6.

278,776. LIQUID PREPARATION USED AS AN APPLICATION FOR RECTAL IRRITATIONS. JOHN ST. GEORGE, Rochester, N. Y.
Filed August 8, 1930. Serial No. 304,391. PUBLISHED SEPTEMBER 30, 1930. Class 6.

278,777. CERTAIN NAMED WEARING APPAREL. C. CRAWFORD HOLLIDGE, Boston, Mass.
Filed August 7, 1930. Serial No. 304,327. PUBLISHED OCTOBER 14, 1930. Class 39.

278,778. CERTAIN NAMED WEARING APPAREL. C. CRAWFORD HOLLIDGE, Boston, Mass.
Filed August 7, 1930. Serial No. 304,326. PUBLISHED OCTOBER 14, 1930. Class 39.

278,779. COMPOUND USED AS A BOILER-FEED-WATER SCALE DISINCRUSTANT, ACID WATER REAGENT, AND SLUDGE PRECIPITATE. MILWAUKEE LUBRICANTS CO., Milwaukee, Wis.
Filed August 4, 1930. Serial No. 304,207. PUBLISHED SEPTEMBER 23, 1930. Class 6.

278,780. NEUTRALIZING, CORRECTIVE, AND LAXATIVE POWDER FOR INTERNAL USE. B. E. PRICE, doing business as The Whoopee Powder Co., Denver, Colo.
Filed July 29, 1930. Serial No. 303,988. PUBLISHED OCTOBER 7, 1930. Class 6.

278,781. CHEMICALS USED AS ANTIOXIDANTS FOR RUBBER. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed July 29, 1930. Serial No. 303,957. PUBLISHED OCTOBER 7, 1930. Class 6.

278,782. CHEMICALS USED FOR PREVENTIVES OF THE SUN CHECKING OF RUBBER. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed July 29, 1930. Serial No. 303,956. PUBLISHED OCTOBER 7, 1930. Class 6.

278,783. CHEMICALS USED AS ANTIOXIDANTS FOR RUBBER. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed July 29, 1930. Serial No. 303,955. PUBLISHED OCTOBER 7, 1930. Class 6.

278,784. COMBS NOT OF PRECIOUS METAL. INDEPENDENT DRUGGISTS' ALLIANCE DISTRIBUTING CO., Chicago, Ill.
Filed July 28, 1930. Serial No. 303,902. PUBLISHED OCTOBER 14, 1930. Class 40.

278,785. JACKETS, UNDERSHIRTS, DRAWERS, CHEMISES, AND UNION SUITS, ALL MADE OF KNITTED FABRIC, FOR MEN, WOMEN, AND CHILDREN. TRIKOTFABRIKEN J. SCHIESSER A. G., Radolfzell, Germany.
Filed July 22, 1930. Serial No. 303,729. PUBLISHED OCTOBER 7, 1930. Class 39.

278,786. UNIFORMS, CAPS, AND APRONS FOR MISSES. HENRY A. DIX & SONS CORPORATION, New York, N. Y.
Filed July 18, 1930. Serial No. 303,597. PUBLISHED OCTOBER 14, 1930. Class 39.

278,787. WOMEN'S AND GIRLS' CAPS. CAMP FIRE GIRLS, INC., New York, N. Y.
Filed July 3, 1930. Serial No. 303,092. PUBLISHED OCTOBER 14, 1930. Class 39.

278,788. HOSIERY. MERIT HOSIERY COMPANY, INC., Ozone Park, Long Island, N. Y.
Filed June 24, 1930. Serial No. 302,787. PUBLISHED OCTOBER 7, 1930. Class 39.

278,789. CANNED LIMA BEANS. CALIFORNIA LIMA BEAN GROWERS ASSOCIATION, Oxnard, Calif.
Filed May 31, 1930. Serial No. 301,827. PUBLISHED OCTOBER 14, 1930. Class 46.

278,790. COFFEE. TUSCALOOSA COFFEE COMPANY, Tuscaloosa, Ala.
Filed September 10, 1930. Serial No. 305,548. PUBLISHED OCTOBER 21, 1930. Class 46.

278,791. TOILET PAPER, PAPER TOWELS, AND NAPKINS. HOBERG PAPER & FIBRE COMPANY, Green Bay, Wis.
Filed August 15, 1930. Serial No. 304,660. PUBLISHED OCTOBER 21, 1930. Class 37.

278,792. DECALCOMANIAS. THE MEYERCORD COMPANY, Chicago, Ill.
Filed August 4, 1930. Serial No. 304,204. PUBLISHED OCTOBER 21, 1930. Class 38.

278,793. PHOTOGRAPHIC PRINTS. S. U. BUNNELL, doing business as Bunnell Photo Shop, San Diego, Calif.
Filed August 4, 1930. Serial No. 304,184. PUBLISHED OCTOBER 21, 1930. Class 38.

278,794. TRADE-PAPER PUBLICATION. J. GODDARD BROWN, Boston, Mass.
Filed July 30, 1930. Serial No. 304,087. PUBLISHED OCTOBER 21, 1930. Class 38.

278,795. INSTRUCTION SHEETS AND CHARTS PUBLISHED FROM TIME TO TIME. THEODORE A. PECK, St. Louis, Mo.
Filed July 7, 1930. Serial No. 303,933. PUBLISHED OCTOBER 21, 1930. Class 38.

278,796. CORRESPONDENCE ENVELOPES, PRINTING PAPER, COVER PAPER, AND ENVELOPE PAPER. PORT HURON SULPHITE & PAPER COMPANY, Port Huron, Mich.
Filed July 26, 1930. Serial No. 303,860. PUBLISHED OCTOBER 21, 1930. Class 37.

278,797. CONTRACT CARDS. MARTIN I. ZOFNESS, Bartlesville, Okla.
Filed July 22, 1930. Serial No. 303,730. PUBLISHED OCTOBER 14, 1930. Class 37.

278,798. COMPLETELY-PRINTED BOOKS. ALFRED A. KNOPF, INC., New York, N. Y.
Filed July 22, 1930. Serial No. 303,719. PUBLISHED OCTOBER 21, 1930. Class 38.

278,799. RADIO PROGRAM MEMO CALENDARS. JAMES P. KENNEDY, Brooklyn, N. Y.
Filed July 7, 1930. Serial No. 303,188. PUBLISHED OCTOBER 21, 1930. Class 37.

278,800. PERIODICAL PUBLICATION. THE MARKETFORM COMPANY, Chicago, Ill.
Filed June 30, 1930. Serial No. 303,003. PUBLISHED OCTOBER 21, 1930. Class 38.

278,801. PERIODICAL PUBLICATION. CLINTON R. WHITE, Chicago, Ill.
Filed June 17, 1930. Serial No. 302,520. PUBLISHED OCTOBER 21, 1930. Class 38.

278,802. WRAPPING PAPER, BRISTOL BOARD, COVER PAPER, AND TAG BOARD; ROPE, JUTE, AND SULPHITE PULP PAPERS — NAMELY, TAG BOARD, MANILLA, AND BRISTOLS; AND GLASSINE PAPERS. RIEGEL PAPER CORPORATION, Riegelsville, N. J.
Filed June 11, 1930. Serial No. 302,334. PUBLISHED OCTOBER 14, 1930. Class 37.

278,803. TAR AND BINDERS' BOARDS MADE OF PAPER FOR USE IN THE MAKING OF A STRENGTHENING SHEATHING FOR COVERS OF BOOKS, SUITCASES, AND TRUNKS AND IN THE MANUFACTURE OF SPOOL HEADS, GASKETS, OR THE LIKE SPECIALTIES. THE DAVEY COMPANY, Jersey City, N. J.
Filed May 29, 1930. Serial No. 301,592. PUBLISHED OCTOBER 14, 1930. Class 37.

278,804. TAR AND BINDERS' BOARDS MADE OF PAPER USED IN THE MANUFACTURE OF COVERS FOR BOOKS, SUITCASES, TRUNKS, SPOOL HEADS, GASKETS, AND THE LIKE SPECIALTIES. THE DAVEY COMPANY, Jersey City, N. J.
Filed May 29, 1930. Serial No. 301,591. PUBLISHED OCTOBER 14, 1930. Class 37.

278,805. TAR AND BINDERS' BOARDS MADE OF PAPER FOR USE IN THE MAKING OF A STRENGTHENING SHEATHING FOR COVERS OF BOOKS, SUITCASES, AND TRUNKS AND IN THE MANUFACTURE OF SPOOL HEADS, GASKETS, OR THE LIKE SPECIALTIES. THE DAVEY COMPANY, Jersey City, N. J.
Filed May 29, 1930. Serial No. 301,590. PUBLISHED OCTOBER 14, 1930. Class 37.

278,806. TAR AND BINDERS' BOARDS MADE OF PAPER USED IN THE MANUFACTURE OF COVERS FOR BOOKS, SUIT CASES, TRUNKS, SPOOL HEADS, GASKETS, AND THE LIKE SPECIALTIES. THE DAVEY COMPANY, Jersey City, N. J.
Filed May 29, 1930. Serial No. 301,589. PUBLISHED OCTOBER 14, 1930. Class 37.

278,807. CHEWING TOBACCO. THE AMERICAN TOBACCO COMPANY, New York, N. Y.
Filed May 29, 1930. Serial No. 301,548. PUBLISHED OCTOBER 14, 1930. Class 17.

278,808. DUSTING MITTENS. JULIUS V. HARPHAM, Lincoln, Nebr.
Filed May 24, 1930. Serial No. 301,170. PUBLISHED OCTOBER 14, 1930. Class 29.

278,809. WARDROBE BAGS. AL-LON MANUFACTURING COMPANY, INC., Baltimore, Md.
Filed September 9, 1930. Serial No. 305,472. PUBLISHED OCTOBER 21, 1930. Class 2.

278,810. CHEWING GUM. AMERICAN CHICLE COMPANY, Long Island City, N. Y.
Filed August 18, 1930. Serial No. 304,708. PUBLISHED OCTOBER 14, 1930. Class 46.

278,811. BRAKE LINING. RAYBESTOS-MANHATTAN, INCORPORATED, Passaic, N. J., and Bridgeport, Conn.
Filed September 11, 1930. Serial No. 305,587. PUBLISHED OCTOBER 21, 1930. Class 35.

278,812. COSTUMERS. UTILATREE PRODUCTS INC., Columbia, Pa.
Filed September 10, 1930. Serial No. 305,549. PUBLISHED OCTOBER 21, 1930. Class 32.

278,813. LABELING MACHINES. THE LIQUID CARBONIC CORPORATION, Chicago, Ill., and Worcester, Mass.
Filed September 4, 1930. Serial No. 305,313. PUBLISHED OCTOBER 21, 1930. Class 23.

278,814. GASKETS. VICTOR MANUFACTURING & GASKET COMPANY, Chicago, Ill.
Filed September 8, 1930. Serial No. 305,459. PUBLISHED OCTOBER 21, 1930. Class 35.

278,815. APPARATUS AND INSTRUMENTS FOR UNDERGROUND SURVEYS AND BORINGS AND PARTS OF SUCH APPARATUS AND INSTRUMENTS. ALEXANDER ANDERSON, Fullerton, Calif.
Filed August 21, 1930. Serial No. 304,853. PUBLISHED OCTOBER 14, 1930. Class 26.

278,816. AXES, HATCHETS, MACHETES, PICKS AND MATTOCKS, HOES, PODADERAS, CAVADORES, SHOVELS, BUSH HOOKS, CANE KNIVES, ADZES, HAMMERS, PLOWS, AND PLOW PARTS. THE COLLINS COMPANY, Collinsville, Conn.
Filed August 19, 1930. Serial No. 304,752. PUBLISHED OCTOBER 14, 1930. Class 23.

278,817. WRECKING TOOLS, CLAY SPADES, MOIL POINTS, ASPHALT CUTTERS, CHISEL POINTS, ROCK DRILLS, SHAPING CHISELS, AND LIKE TOOLS FOR USE IN PNEUMATIC DRIVING MACHINES FOR GENERAL CONSTRUCTION, DEMOLITION, AND EXCAVATION USE. GREENLEE BROS. & Co., Rockford, Ill.
Filed August 18, 1930. Serial No. 304,721. PUBLISHED OCTOBER 14, 1930. Class 23.

278,818. KITCHEN AND HOUSEHOLD TOOLS OR UTENSILS. R. WALLACE & SONS MANUFACTURING COMPANY, Wallingford, Conn.
Filed August 14, 1930. Serial No. 304,645. PUBLISHED OCTOBER 14, 1930. Class 23.

278,819. PLASTIC REFRACTORY MATERIAL. E. J. LAVINO AND COMPANY, Philadelphia, Pa.
Filed August 13, 1930. Serial No. 304,563. PUBLISHED OCTOBER 7, 1930. Class 12.

278,820. SELF-MEASURING GASOLINE PUMPS. CHARLES E. MARION, New York, N. Y.
Filed August 8, 1930. Serial No. 304,377. PUBLISHED OCTOBER 14, 1930. Class 26.

278,821. FERTILIZERS. SOUTHERN FERTILIZER & CHEMICAL COMPANY, Savannah, Ga.
Filed June 30, 1930. Serial No. 303,014. PUBLISHED OCTOBER 21, 1930. Class 10.

278,822. FRUIT PRESERVES, JAMS, JELLIES, MARMALADES, AND FRUIT BUTTERS. ORCHARD PRODUCTS COMPANY, Chicago, Ill.
Filed September 2, 1930. Serial No. 305,239. PUBLISHED OCTOBER 21, 1930. Class 46.

278,823. CANNED GRAPEFRUIT AND CANNED CITRUS JUICES FOR FOOD PURPOSES. HARMAN & HULSEY, INC., Tampa, Fla.
Filed August 27, 1930. Serial No. 305,078. PUBLISHED OCTOBER 21, 1930. Class 46.

278,824. CANDY BARS, FROZEN OR UNFROZEN. STADLER & HENNICK, Royalton, Wis.
Filed August 23, 1930. Serial No. 304,975. PUBLISHED OCTOBER 21, 1930. Class 46.

278,825. CHEWING GUM COMPRISING A CORE OF CHEWING GUM AND A THICK COATING OR COVERING OF HARD CANDY. FRANK H. FLEER CORPORATION, Philadelphia, Pa.
Filed August 19, 1930. Serial No. 304,763. PUBLISHED OCTOBER 21, 1930. Class 46.

278,826. FRUIT PRESERVES. THE J. M. SMUCKER CO., Orrville, Ohio.
Filed August 14, 1930. Serial No. 304,639. PUBLISHED OCTOBER 14, 1930. Class 46.

278,827. FROZEN MEATS. JOHN MORRELL & CO., Ottumwa, Iowa.
Filed August 14, 1930. Serial No. 304,625. PUBLISHED OCTOBER 14, 1930. Class 46.

278,828. CONFECTIONERY—NAMELY, AN INDIVIDUALLY-WRAPPED SPECIALTY IN THE NATURE OF A CANDY BAR. CHICAGO CANDY NOVELTIES CORP., Chicago, Ill.
Filed August 14, 1930. Serial No. 304,602. PUBLISHED OCTOBER 14, 1930. Class 46.

278,829. HAMS, BACON, AND FISH, BOTH FRESH AND PRESERVED. ALBERT RICHARDS CO., INC., Boston, Mass.
Filed August 13, 1930. Serial No. 304,580. PUBLISHED OCTOBER 14, 1930. Class 46.

278,830. SHORTENING MADE OF VEGETABLE OIL. SWIFT AND COMPANY, Chicago, Ill.
Filed August 6, 1930. Serial No. 304,301. PUBLISHED OCTOBER 21, 1930. Class 46.

278,831. PURE VEGETABLE SHORTENING. THE GLIDDEN COMPANY, Cleveland, Ohio.
Filed August 6, 1930. Serial No. 304,282. PUBLISHED OCTOBER 14, 1930. Class 46.

278,832. COFFEE. HOFFMANN-HAYMAN COFFEE CO., San Antonio, Tex.
Filed August 2, 1930. Serial No. 304,143. PUBLISHED OCTOBER 21, 1930. Class 46.

278,833. CANNED FISH. JOSEPH JAWITZ, New York, N. Y.
Filed July 28, 1930. Serial No. 304,083. PUBLISHED OCTOBER 14, 1930. Class 46.

278,834. SCRAPPLE. F. G. VOGT & SONS, INCORPORATED, Philadelphia, Pa.
Filed July 7, 1930. Serial No. 303,231. PUBLISHED OCTOBER 14, 1930. Class 46.

278,835. SCRAPPLE. F. G. VOGT & SONS, INCORPORATED, Philadelphia, Pa.
Filed July 7, 1930. Serial No. 303,230. PUBLISHED OCTOBER 14, 1930. Class 46.

278,836. CANNED PEAS. STOKELY BROTHERS & COMPANY, Louisville, Ky.
Filed May 29, 1930. Serial No. 301,723. PUBLISHED OCTOBER 21, 1930. Class 46.

278,837. PERIODICAL PUBLICATION. HARVEY CONOVER & COMPANY, INC., New York, N. Y.
Filed September 16, 1930. Serial No. 305,746. PUBLISHED OCTOBER 21, 1930. Class 38.

278,838. PERIODICALS. FRIGIDAIRE CORPORATION, Dayton, Ohio.
Filed September 10, 1930. Serial No. 305,524. PUBLISHED OCTOBER 21, 1930. Class 38.

278,839. FOUNTAIN PENS AND PARTS THEREOF. THE SAGER PEN COMPANY, Chicago, Ill.
Filed September 2, 1930. Serial No. 305,244. PUBLISHED OCTOBER 14, 1930. Class 37.

278,840. FOUNTAIN PENS AND MECHANICAL PENCILS AND PARTS THEREOF. L. E. WATERMAN COMPANY, New York, N. Y.
Filed August 28, 1930. Serial No. 305,127. PUBLISHED OCTOBER 14, 1930. Class 37.

278,841. FOUNTAIN PENS AND PENCILS. ECLIPSE FOUNTAIN PEN & PENCIL CO. INC., New York, N. Y.
Filed August 28, 1930. Serial No. 305,102. PUBLISHED OCTOBER 14, 1930. Class 37.

278,842. WRITING PAPER AND ENVELOPES. MONTAG BROS. INC., Atlanta, Ga.
Filed August 23, 1930. Serial No. 304,966. PUBLISHED OCTOBER 14, 1930. Class 37.

278,843. HOUSE ORGAN PUBLISHED MONTHLY. FOX WEST COAST THEATRES, Los Angeles, Calif.
Filed August 19, 1930. Serial No. 304,764. PUBLISHED OCTOBER 14, 1930. Class 38.

278,844. MONTHLY TRADE PUBLICATION. THE AMERICAN DENTAL TRADE ASSOCIATION, Washington, D. C.
Filed August 19, 1930. Serial No. 304,748. PUBLISHED OCTOBER 21, 1930. Class 38.

278,845. COFFEE. FRANK C. RUSSELL, doing business as Russell & Co., New York, N. Y.
Filed August 15, 1930. Serial No. 304,672. PUBLISHED OCTOBER 14, 1930. Class 46.

278,846. STEEL, AND PARTICULARLY TOOL STEELS. THE CRUCIBLE ELECTRIC STEEL COMPANY, Pittsburgh, Pa.
Filed September 4, 1929. Serial No. 289,309. PUBLISHED OCTOBER 14, 1930. Class 14.

278,847. RUM, GIN, WHISKEY, COCKTAILS, AND ALCOHOLIC CORDIALS. JOHN HAIG & CO., LIMITED, Markinch, Scotland.
Filed August 23, 1929. Serial No. 288,911. PUBLISHED OCTOBER 21, 1930. Class 49.

278,848. CANDY. MOIRS, LIMITED, Halifax, Nova Scotia, Canada.
Filed August 3, 1929. Serial No. 288,082. PUBLISHED OCTOBER 21, 1930. Class 46.

278,849. TOBACCO POUCHES AND CONTAINERS. THE BUATIS COMPANY, INC., Newark, N. J.
Filed July 10, 1929. Serial No. 286,866. PUBLISHED OCTOBER 21, 1930. Class 8.

278,850. POROUS PLASTERS HAVING COUNTERIRRITANT EFFECT. ALLCOCK MANUFACTURING CO., Ossining, N. Y.
Filed June 24, 1929. Serial No. 286,011. PUBLISHED OCTOBER 7, 1930. Class 6.

278,851. PILLS HAVING LAXATIVE EFFECT. ALLCOCK MANUFACTURING CO., Ossining, N. Y.
Filed June 24, 1929. Serial No. 286,010. PUBLISHED SEPTEMBER 30, 1930. Class 6.

278,852. PREPARED COD-LIVER OIL. PHYSICIANS LABORATORIES, INC., Milwaukee, Wis.
Filed June 19, 1929. Serial No. 285,790. PUBLISHED SEPTEMBER 30, 1930. Class 6.

278,853. FILTERS, PARTS THEREFOR, AND WATER-FILTERING MASSES. AKTIEBOLAGET ELEKTROLUX, Stockholm, Sweden.
Filed June 12, 1929. Serial No. 285,434. PUBLISHED OCTOBER 14, 1930. Class 31.

278,854. BATH SALTS, DUSTING POWDERS, PERFUMES, ROUGES, HAND LOTION, VANISHING CREAM, MASSAGE CREAM, LIP STICKS, HAIR LOTION, CLEANSING CREAM, TISSUE CREAM, SKIN LOTION, ASTRINGENT LOTION, ASTRINGENT CREAM, HAND CREAM, FACE POWDER. ROBERT ENTERPRISES, INC., also doing business as "Robert," New York, N. Y.
Filed May 31, 1929. Serial No. 284,873. PUBLISHED SEPTEMBER 16, 1930. Class 6.

278,855. PHARMACEUTICAL PREPARATION COMPOUNDED OF SODIUM BICARB, MAGNESIUM, AND BISMUTH TO BE USED AS AN ANTACID. SOL HIRSCH, New York, N. Y., assignor to Gastrkal Co. Inc., New York, N. Y., a Corporation of New York.
Filed May 14, 1929. Serial No. 283,978. PUBLISHED SEPTEMBER 30, 1930. Class 6.

278,856. AIR COMPRESSORS. BURY COMPRESSOR CO., Erie, Pa.
Filed April 29, 1929. Serial No. 283,173. PUBLISHED OCTOBER 14, 1930. Class 23.

278,857. COMBINATION NOTE PAPER AND ENVELOPES. WILLIAM HARRIMAN, Oklahoma City, Okla., assignor to Twin-Rite Stationery Co., Oklahoma City, Okla., a trust estate.
Filed April 26, 1929. Serial No. 283,040. PUBLISHED OCTOBER 21, 1930. Class 37.

278,858. TESTING INSTRUMENTS—NAMELY, INSTRUMENTS FOR TESTING THE MECHANICAL AND ELECTRICAL CONDITIONS OF INTERNAL-COMBUSTION MOTORS PERTINENT TO CYLINDER COMPRESSION AND IGNITION CONDITIONS AND THE LIKE. MOTOR X-RAY CO., INC., Glendale, Calif.
Filed February 4, 1929. Serial No. 278,845. PUBLISHED OCTOBER 14, 1930. Class 26.

278,859. GLASSWARE BRUSHES, DISH MOPS, HAIR-BRUSHES, ETC. ALBERT PICK-BARTH COMPANY, INC., New York, N. Y. and Chicago, Ill.
Filed May 21, 1930. Serial No. 300,967. PUBLISHED OCTOBER 14, 1930. Class 29.

278,860. PERFUME. SOC. AN. GIUS. VISCONTI DI MODRONE & C., Milan, Italy.
Filed September 14, 1928. Serial No. 272,438. PUBLISHED SEPTEMBER 30, 1930. Class 6.

278,861. QUARTERLY PUBLICATION. CHARLES H. MCCARTHY, Minneapolis, Minn.
Filed May 21, 1930. Serial No. 300,951. PUBLISHED OCTOBER 21, 1930. Class 38.

278,862. ELECTRICAL REFRIGERATORS AND REFRIGERATING DISPENSERS. TAVERNETTE CORPORATION, Chicago, Ill.
Filed May 19, 1930. Serial No. 300,830. PUBLISHED OCTOBER 14, 1930. Class 31.

278,863. ELECTRICAL REFRIGERATORS AND REFRIGERATING DISPENSERS. TAVERNETTE CORPORATION, Chicago, Ill.
Filed May 19, 1930. Serial No. 300,829. PUBLISHED OCTOBER 14, 1930. Class 31.

278,864. VALVES FOR USE ON THE VENT PORTS OF STEAM-HEATING RADIATORS. B. F. PERKINS & SON, INC., Willimansett, Mass.
Filed May 19, 1930. Serial No. 300,806. PUBLISHED OCTOBER 14, 1930. Class 13.

278,865. CANDY CONFECTIONS. OXFORD CONFECTIONERY COMPANY, Oxford, Pa.
Filed May 19, 1930. Serial No. 300,803. PUBLISHED OCTOBER 21, 1930. Class 46.

278,866. NEWSPAPER ARTICLES. MARY DOWD REARDON, Oakland, Calif.
Filed May 13, 1930. Serial No. 300,437. PUBLISHED OCTOBER 21, 1930. Class 38.

278,867. FIRE HOSE OF FIBRE FABRIC CONTAINING NO RUBBER. FENWICK REDDAWAY MFG. CO., Newark, N. J.
Filed May 12, 1930. Serial No. 300,343. PUBLISHED OCTOBER 14, 1930. Class 35.

278,868. SULPHUR, COLD CREAM, PERFUME, ETC. JAMES W. SPENCER, doing business as Consolidated Drug Corp., New Orleans, La., assignor to Consolidated Drug Corporation, New Orleans, La., a Corporation of Louisiana.
Filed May 10, 1930. Serial No. 300,303. PUBLISHED SEPTEMBER 16, 1930. Class 6.

278,869. HAND-OPERATED WEED AND GRASS CUTTERS. JOHN F. HANNAH, Tampa, Fla.
Filed May 9, 1930. Serial No. 300,191. PUBLISHED OCTOBER 14, 1930. Class 23.

278,870. HOSIERY FOR MEN, WOMEN AND CHILDREN, AND UPON UNDERWEAR OF WOVEN, KNITTED, AND/OR NETTED MATERIAL OF WOOL, COTTON, SILK, RAYON, LINEN, AND/OR COMBINATIONS THEREOF. PHOENIX HOSIERY COMPANY, Milwaukee, Wis.
Filed May 7, 1930. Serial No. 300,082. PUBLISHED SEPTEMBER 30, 1930. Class 39.

278,871. TOOTHBRUSHES. SOCIÉTÉ ANONYME DENTCLAIR, Paris, France.
Filed May 3, 1930. Serial No. 299,933. PUBLISHED OCTOBER 14, 1930. Class 29.

278,872. COMBS NOT MADE OF PRECIOUS METAL. RHEINISCHE GUMMI- UND CELLULOID-FABRIK, Mannheim, Germany.
Filed April 30, 1930. Serial No. 299,730. PUBLISHED OCTOBER 14, 1930. Class 40.

278,873. MEDICINE FOR ALL FORMS OF PILES. THE ALPHA CHEMICAL PRODUCTS CO., Cincinnati, Ohio.
Filed April 26, 1930. Serial No. 299,480. PUBLISHED SEPTEMBER 30, 1930. Class 6.

278,874. HAIRBRUSHES, BRUSHES FOR TOILET USE, MILITARY SETS OF HAIRBRUSHES, SHAVING BRUSHES, BRUSHES IN SHAVING SETS, TOOTHBRUSHES, AND BRUSH HANDLES. THE WILCOX NOVELTY COMPANY, Athol, Mass.
Filed April 25, 1930. Serial No. 299,478. PUBLISHED OCTOBER 14, 1930. Class 29.

278,875. SPRAY GUNS. SINCLAIR REFINING COMPANY, New York, N. Y.
Filed April 25, 1930. Serial No. 299,466. PUBLISHED JUNE 10, 1930. Class 23.

278,876. PHOTO AND AUTOGRAPH ALBUM. MASTER PHOTO FINISHERS OF AMERICA, Rockford, Ill.
Filed April 21, 1930. Serial No. 299,208. PUBLISHED OCTOBER 21, 1930. Class 37.

278,877. MALT CEREAL BEVERAGES CONTAINING LESS THAN ONE-HALF OF ONE PER CENT ALCOHOL BY VOLUME. A. J. CANFIELD CO., Chicago, Ill.
Filed April 16, 1930. Serial No. 298,931. PUBLISHED OCTOBER 21, 1930. Class 48.

278,878. PENCILS AND CRAYONS. A. W. FABER, INC., Newark, N. J.
Filed March 26, 1930. Serial No. 297,898. PUBLISHED OCTOBER 21, 1930. Class 37.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

278,879. (CLASS 12. CONSTRUCTION MATERIALS.) DOUGLAS COLLINS, doing business as Collins Durax Co., Salisbury, N. C. Filed Oct. 2, 1929. Serial No. 290,488.

SALISBURY PINK

For Dimension Stone for Buildings and Monuments, Curbs, Curbing, and Paving Stone.
Claims use since Dec. 1, 1928.

278,880. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GRIFFITH LABORATORIES, INC., Chicago, Ill. Filed Sept. 3, 1929. Serial No. 289,274.

GRIFFITH'S RYE DUST

For Dusting Flour.
Claims use since July 1, 1919.

278,881. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EDWIN E. BERLINER & CO., New York, N. Y. Filed Aug. 27, 1929. Serial No. 289,060.

TWILWEAR

For Cotton Piece Goods.
Claims use since May, 1929.

278,882. (CLASS 37. PAPER AND STATIONERY.) AMERICAN WRITING PAPER COMPANY, INC., Holyoke, Mass. Filed Nov. 4, 1929. Serial No. 291,951.

MONTEREY

For Writing and Printing Paper.
Claims use since Oct. 18, 1929.

278,883. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEBRÜDER HILLERS, Grafrath, Solingen, Germany. Filed Oct. 28, 1929. Serial No. 291,709.

Hillers

For Cocoa Powder, Chocolates, Pralines, Bonbons, Candies, Biscuits, and Cakes.
Claims use since June 1, 1920.

278,884. (CLASS 27. HOROLOGICAL INSTRUMENTS.) THE NEW HAVEN CLOCK COMPANY, New Haven, Conn. Filed Oct. 25, 1929. Serial No. 291,573.

TRUSTY TIMER

For Clocks.
Claims use since Oct. 7, 1929.

278,885. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) E. MORRIS MFG. CO., Detroit, Mich. Filed Oct. 24, 1929. Serial No. 291,518.

THE BELMONT

For Razors and Shears.
Claims use since May 1, 1929.

278,886. (CLASS 12. CONSTRUCTION MATERIALS.) PLASTIC STONE PRODUCTS CORP., New York, N. Y. Filed Oct. 22, 1929. Serial No. 291,407.

ROMAN PLASTER

For Wall Plaster.
Claims use since August, 1929.

278,887. (CLASS 37. PAPER AND STATIONERY.) SMITH & PORTER PRESS, INCORPORATED, Boston, Mass. Filed Mar. 2, 1929. Serial No. 280,201.

Naman Seal

For Paper Labels.
Claims use since Nov. 10, 1924.

278,888. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) CRANE CO., Chicago, Ill. Filed Oct. 30, 1930. Serial No. 307,347.

IPSWICH

For Plumbing Fixtures—Namely, Baths, Lavatories, Combination Lavatories and Dressing Tables, Dressing Tables, Kitchen Sinks, Closet Bowls, Closet Combinations, Closet Tanks, Drinking Fountains, Manicure Tables, Shower Receptors, Sitz Baths, Foot Baths, Wash Sinks, Slop Sinks, Urinals, Dental Lavatories, and Supply Fixtures and Wastes.
Claims use since May 1, 1928.

278,889. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) MOTORSTOKOR CORPORATION, New York, N. Y. Filed Oct. 27, 1930. Serial No. 307,241.

MOTOR STOKOR

For Coal Burners.
Claims use since Apr. 1, 1929.

278,890. (CLASS 12. CONSTRUCTION MATERIALS.) ALLIED METAL PRODUCTS CORPORATION, Detroit, Mich. Filed Aug. 22, 1930. Serial No. 304,902.

"Foldown"

For Drip and Roof Moldings.
Claims use since Oct. 23, 1929.

278,891. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) EPHRAIM MCCLEARY HOLMES, Detroit, Mich. Filed July 12, 1930. Serial No. 303,441.

Famous Jersey

For Ice.
Claims use since Jan. 1, 1925.

278,892. (CLASS 37. PAPER AND STATIONERY.) OXFORD FILING SUPPLY CO., Brooklyn, N. Y. Filed June 19, 1930. Serial No. 302,594.

Oxford

For Index Cards, Index Guides, Guide Cards, Filing Folders, Paper Clips, File Clips, Index Tabs, Gummed Labels, File Pockets, Filing Envelopes, and Filing Jackets.
Claims use since Dec. 27, 1918.

278,893. (CLASS 37. PAPER AND STATIONERY.) OXFORD FILING SUPPLY CO., Brooklyn, N. Y. Filed June 19, 1930. Serial No. 302,593.

Oxford

For Index Cards, Index Guides. Guide Cards, Filing Folders, Paper Clips, File Clips, Index Tabs, Gummed Labels, File Pockets, Filing Envelopes, and Filing Jackets.
Claims use since Dec. 27, 1918.

278,894. (CLASS 11. INKS AND INKING MATERIALS.) D. GESTETNER, LIMITED, London, England. Filed June 10, 1930. Serial No. 302,307.

GESTETNER

For Stencil Inks.
Claims use since November. 1928.

278,895. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MANLEY MANUFACTURING COMPANY, York, Pa. Filed June 5, 1930. Serial No. 302,183.

Manley

For Assembly Tables, Auto Pits, Auto Washers, Brake-Relining Equipment, Cranes, Dollies, Elevators, Engine Stands, Grease Buckets of Pressure Type, Hoists, Hydraulic Presses, Jacks, Lifts, Rack Presses and Screw Presses, Riveting Machines, Automobile Runways, Spring-Shackle Tools, Tire Changers, Tire Inspectors, Tow Hitches, Tow Poles, Automobile Trestles, Winches, Workbenches, Wrecking Cranes.
Claims use since May 28, 1929.

278,896. (CLASS 37. PAPER AND STATIONERY.) GUST. RAFFLENBEUL, Schwelm, Germany. Filed May 31, 1930. Serial No. 302,021.

RODI

For Thumb Tacks.
Claims use since Dec. 7, 1908.

278,897. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPH OTTENBERG, Washington, D. C. Filed May 31, 1930. Serial No. 302,005.

OTTENBERG'S
GERMAN RYE

For Bread.
Claims use since Jan. 1, 1926.

278,898. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPH OTTENBERG, Washington, D. C. Filed May 31, 1930. Serial No. 302,004.

OTTENBERG'S
Russian
Pumpernickel

For Bread.
Claims use since Aug. 1, 1929.

278,899. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALBERT GAUENER, Cicero, Ill. Filed Apr. 11, 1930. Serial No. 298,697.

California

For Box Lunches Consisting of Sandwiches, Fruit, Relish, and Dessert.
Claims use since Jan. 2, 1918.

278,900. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JACOBS CANDY CO. LTD., doing business as Sue Sonder Candy Company, New Orleans, La. Filed Apr. 3, 1930. Serial No. 298,333.

Sue Sonder

For Candy.
Claims use since Sept. 23, 1920.

278,901. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) KELLY GRAPHITE MILLS, INC., Stockertown, Pa. Filed Mar. 22, 1930. Serial No. 297,747.

SPRAY-ON

For Facings for Use in Casting Metals.
Claims use since Dec. 1, 1928.

278,902. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) KELLY GRAPHITE MILLS, INC., Stockertown, Pa. Filed Mar. 22, 1930. Serial No. 297,746.

SLICK-ON

For Facings for Use in Casting Metals.
Claims use since Oct. 1, 1928.

278,903. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) KELLY GRAPHITE MILLS, INC., Stockertown, Pa. Filed Mar. 22, 1930. Seral No. 297,745.

SHAKE-ON

For Facings for Use in Casting Metals.
Claims use since Oct. 1, 1928.

278,904. (CLASS 12. CONSTRUCTION MATERIALS.) PLASTIC STONE PRODUCTS CORP., New York, N. Y. Filed Dec. 2, 1929. Serial No. 293,153.

ROMAN HARD PLASTER

For Wall Plaster.
Claims use since Sept. 1, 1929.

278,905. (CLASS 37. PAPER AND STATIONERY.) THE MUNISING PAPER COMPANY, Munising, Mich. Filed Nov. 14, 1929. Serial No. 292,412.

Caslon

For Mimeograph and Ledger Papers.
Claims use since Oct. 26, 1929.

TRADE-MARK REGISTRATIONS RENEWED

34,926. NEEDLES, PINS, BODKINS, AND CROCHET HOOKS. Registered July 24, 1900. WILLIAM HALL & COMPANY, LIMITED, Redditch, England, a Corporation of Great Britain. Renewed July 24, 1930.

78,886. MATCHES. Registered July 19, 1910. FREDRIK EMIL KREUGER, London, England. Renewed July 19, 1930, to Jonkopings och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden, a Corporation of Sweden, assignee by mesne assignments.

78,887. MATCHES. Registered July 19, 1910. FREDRIK EMIL KREUGER, London, England. Renewed July 19,1930, to Jonkopings och Vulcans Tandsticksfabriksaktiebolag, Jenkoping, Sweden, a Corporation of Sweden, assignee by mesne assignments.

79,428. MATCHES. Registered September 6, 1910. FREDRIK EMIL KREUGER, London, England. Renewed September 6, 1930, to Jonkopings och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden, a Corporation of Sweden, assignee by mesne assignments.

79,498. MATCHES. Registered September 13, 1910. FREDRIK EMIL KREUGER, London, England. Renewed September 13, 1930, to Jonkopings och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden, a Corporation of Sweden, assignee by mesne assignments.

79,499. MATCHES. Registered September 13, 1910. FREDRIK EMIL KREUGER, London, England. Renewed September 13, 1930, to Jonkopings och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden, a Corporation of Sweden, assignee by mesne assignments.

79,500. MATCHES. Registered September 13, 1910. FREDRIK EMIL KREUGER, London, England. Renewed September 13, 1930, to Jonkopings och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden, a Corporation of Sweden, assignee by mesne assignments.

79,588. MATCHES. Registered September 20, 1910. FREDRIK EMIL KREUGER, London, England. Renewed September 20, 1930, to Jonkopings och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden, a Corporation of Sweden, assignee by mesne assignments.

79,764. MATCHES. Registered October 4, 1910. FREDRIK EMIL KREUGER, London, England. Renewed October 4, 1930, to Jonkopings och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden, a Corporation of Sweden, assignee by mesne assignments.

79,985. MATCHES. Registered October 25, 1910. FREDRIK EMIL KREUGER, London, England. Renewed October 25, 1930, to Jonkopings och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden, a Corporation of Sweden, assignee by mesne assignments.

79,986. MATCHES. Registered October 25, 1910. FREDRIK EMIL KREUGER, London, England. Renewed October 25, 1930, to Jonkopings och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden, a Corporation of Sweden, assignee by mesne assignments.

80,130. MATCHES. Registered November 8, 1910. FREDRIK EMIL KREUGER, London, England. Renewed November 8, 1930, to Jonkopings och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden, a Corporation of Sweden, assignee by mesne assignments.

80,364. MATCHES. Registered December 13, 1910. FREDRIK EMIL KREUGER, London, England. Renewed December 13, 1930, to Jonkopings och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden, a Corporation of Sweden, assignee by mesne assignments.

LABELS

REGISTERED DECEMBER 30, 1930

38,411.—*Title:* AMERICAN LENDING LIBRARY. For Bookcases, Bookracks, Bookshelves, and Books. AMERICAN LENDING LIBRARY, INC., College Point, N. Y. Published May 1, 1930.

38,412.—*Title:* OLD MONTEREY GINGER ALE. For Ginger Ale. ARROWHEAD SPRINGS BEVERAGE COMPANY, LTD., Los Angeles, Calif. Published September 26, 1930.

38,413.—*Title:* CASTILIAN DRY GINGER ALE. For Ginger Ale. ARROWHEAD SPRINGS BEVERAGE COMPANY, LTD., Los Angeles, Calif. Published September 26, 1930.

38,414.—*Title:* ROYAL GARDEN. For Tea. BLODGETT-BECKLEY COMPANY, Toledo, Ohio. Published November 10, 1930.

38,415.—*Title:* WILL-KILL. For Rodent Exterminator. ARTHUR T. BRADFORD, doing business as Will-Kill Company, Omaha, Nebr. Published October 18, 1930.

38,416.—*Title:* CALVERT. For Canned Salmon. CALVERT COMPANY, INC., Seattle, Wash. Published September 1, 1930.

38,417.—*Title:* OCEANKIST. For Canned Salmon. CALVERT COMPANY, INC., Seattle, Wash. Published September 1, 1930.

38,418.—*Title:* CREAMY BUTTER. For Creamy Butter. CONTAINER CORPORATION OF AMERICA, Chicago, Ill. Published October 1, 1930.

38,419.—*Title:* HOSTESS TWINKIES. For Cake. CONTINENTAL BAKING COMPANY, New York, N. Y. Published June 25, 1930.

38,420.—*Title:* DIAMOND INK. For Ink. DIAMOND INK COMPANY, Dallas, Tex. Published August 29, 1930.

38,421.—*Title:* MC. 63 CALGUINATE. For Medicinal Preparation. THE DRUG PRODUCTS CO. INC., Long Island City, N. Y. Published November 26, 1930.

38,422.—*Title:* DUGAN'S SPICE CAKES. For Spice Cake. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published November 15, 1930.

38,423.—*Title:* DUGAN'S CRUMB BUNS. For Crumb Buns. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published November 15, 1930.

38,424.—*Title:* DUGAN'S CORN MUFFINS. For Corn Muffins. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published November 15, 1930.

38,425.—*Title:* DUGAN'S HOME MADE FRESH FRUIT PIE. For Fruit Pie. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published November 15, 1930.

38,426.—*Title:* DUGAN'S CRUMB CAKE. For Crumb Cake. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published November 7, 1930.

38,427.—*Title:* DUGAN'S DELICIOUS DOUGHNUTS. For Doughnuts. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published November 15, 1930.

38,428.—*Title:* DUGAN'S LUNCH CAKES. For Lunch Cake. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published November 15, 1930.

38,429.—*Title:* DUGAN'S VIENNA CRUMB CAKE. For Crumb Cake. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published November 15, 1930.

38,430.—*Title:* DUGAN'S HOME MADE MERINGUE PIE. For Meringue Pie. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published November 4, 1930.

38,431.—*Title:* DUGAN'S STOLLEN. For Stollen. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published November 15, 1930.

38,432.—*Title:* DUGAN'S SPECIAL HOLIDAY PIE. For Pie. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published November 24, 1930.

38,433.—*Title:* DUGAN'S JELLY ROLL. For Jelly Roll. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published November 11, 1930.

38,434.—*Title:* DUGAN'S BUTTER CAKE. For Butter Cake. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published November 15, 1930.

38,435.—*Title:* DUGAN'S COFFEE RING. For Coffee Rings. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published November 1, 1930.

38,436.—*Title:* DUGAN'S VILLAGE BISCUITS. For Village Biscuits. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published November 15, 1930.

38,437.—*Title:* DUGAN'S CHEESE CAKE. For Cheesecake. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published November 14, 1930.

38,438.—*Title:* DUGAN'S PARKER HOUSE ROLLS. For Parker-House Rolls. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published November 15, 1930.

38,439.—*Title:* DUGAN'S LADY FINGERS. For Lady Fingers. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published November 15, 1930.

38,440.—*Title:* DUGAN'S HOME MADE LAYER CAKE. For Layer Cake. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published November 15, 1930.

38,441.—*Title:* DUGAN'S SPECIAL NUT CAKE. For Nut Cake. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published November 15, 1930.

38,442.—*Title:* DUGAN'S ALMOND FILLED RING. For Almond-Filled Ring. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published November 14, 1930.

38,443.—*Title:* DUGAN'S SUGAR BUNS. For Sugar Buns. DUGAN BROTHERS, INC., Brooklyn, N. Y. Published November 15, 1930.

38,444.—*Title:* TOP O' THE MORNING. For Pork Sausages. ADOLF GOBEL, INC., New York, N. Y. Published September 1, 1930.

38,445.—*Title:* FIFTH AVE. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published September 4, 1930.

38,446.—*Title:* SANI-FLUSH. For Powdered Compound for Cleaning Water-Closet Bowls and Automobile Radiators. THE HYGIENIC PRODUCTS COMPANY, Canton, Ohio. Published April 15, 1930.

38,447.—*Title:* ICY-FRUIT-ROLL. For Frozen Confections. THE ICY FRUIT ROLL COMPANY, Chicago, Ill. Published November 21, 1930.

38,448.—*Title:* CIRILLO. For Macaroni. THE ITALIAN IMPORTING CO. OF NEW YORK, New York, N. Y. Published January 15, 1910.

38,449.—*Title:* BIG KERNEL. For Canary-Bird Seed. FRED W. KAEMPFER, Chicago, Ill. Published September 15, 1930.

38,450.—*Title:* VARIETY. For Birdseed. FRED W. KAEMPFER, Chicago, Ill. Published October 7, 1930.

38,451.—*Title:* S'MILD. For Cigars. J. KERNS, INC., Milwaukee, Wis. Published November 1, 1930.

38,452.—*Title:* JO-AN. For Orange Marmalade. MASHBURN & THOLBORN, Independence, Mo. Published July 15, 1930.

38,453.—*Title:* MORRELL'S PRIDE HASTY HAM. For Ham. JOHN MORRELL & Co., Ottumwa, Iowa. Published October 24, 1930.

38,454.—*Title:* A MASTER FLOOR BY MASTER CRAFTSMEN. For Composition Floor Coverings. NEW JERSEY BONDED FLOOR CO., Garfield, N. J. Published October 20, 1930.

38,455.—*Title:* PYRAMID SALTED NUTS. For Salted Nuts. NEW YORK NUT SHELLING CO., INC., New York, N. Y. Published September 25, 1930.

38,456.—*Title:* GOLDEN-CREAM. For Mayonnaise. NORTHERN PINES PICKLING CO., Minneapolis, Minn. Published September 17, 1930.

38,457.—*Title:* EVER-CRISP. For Sweet Pickles. NORTHERN PINES PICKLING CO., Minneapolis, Minn. Published September 17, 1930.

38,458.—*Title:* LIME RICKEY GUM. For Chewing Gum. PACIFIC GUM COMPANY, San Francisco, Calif. Published November 20, 1930.

38,459.—*Title:* BLUE DIAMOND. For Olives. PACKING & MARKETING, INC., San Francisco, Calif. Published November 9, 1930.

38,460.—*Title:* SAN-X. For Bathroom Paper. PRATT PAPER COMPANY, Des Moines, Iowa. Published November 5, 1930.

38,461.—*Title:* RING-ROUT. For Medicament for the Treatment of a Skin Affection. RING-ROUT, INC., New Orleans, La. Published October 4, 1930.

38,462.—*Title:* WHITE ROSE OLD HICKORY HAM. For Cooked Hams. SEEMAN BROTHERS, INC., New York, N. Y. Published September 8, 1930.

38,463.—*Title:* CLOZ ELTONA CLENZ. For Cleaning Fluid. ABRAHAM SOCKLOFF, New York, N. Y. Published August 28, 1930.

38,464.—*Title:* MIAMI HIGH EARLY STRENGTH. For Cement. SOUTHWESTERN PORTLAND CEMENT COMPANY, Dayton, Ohio. Published January 1, 1927.

38,465.—*Title:* A TO Z. For Brooms and Mops. STAMETCO BROOM & MFG. CO. INC., St. Paul, Minn. Published October 29, 1930.

38,466.—*Title:* RUBBER ENAMEL. For Rubber Enamel. STEELCOTE MANUFACTURING COMPANY, St. Louis, Mo. Published September 2, 1930.

38,467.—*Title:* BLUE BONNET. For Sandwich Spread. TEXAS MARGARINE COMPANY, Dallas, Tex. Published August 1, 1930.

38,468.—*Title:* BLUE BONNET. For Salad Dressing. TEXAS MARGARINE COMPANY, Dallas, Tex. Published August 1, 1930.

38,469.—*Title:* FRUIT NECTAR. For Beverage Syrup. S. ALLEN TUCKER, Philadelphia, Pa. Published November 1, 1930.

38,470.—*Title:* UNION PACIFIC GASOLINE. For Gasoline. UNION PACIFIC OIL COMPANY, INC., Long Beach, Calif. Published November 1, 1930.

38,471.—*Title:* TINCTURE DIGITALIS UPSHER SMITH. For Tincture Digitalis. F. A. UPSHER SMITH, doing business as Upsher Smith Company, Minneapolis, Minn. Published October 30, 1930.

38,472.—*Title:* PAN-C-RYE. For Bread. WARD BAKING COMPANY, New York, N. Y. Published May 24, 1930.

38,473.—*Title:* E-Z-RUST REMOVER. For Liquid, the Purpose of Which is to Remove Rust. LEON I. WASSERMAN, doing business as The E-Z Rust Remover Co., Stafford Springs, Conn. Published August 11, 1930.

PRINTS

REGISTERED DECEMBER 30, 1930

12,920.—*Title:* THE SOUL IS NEVER EMPTY OF THE LOVELINESS IT GIVES. For Beauty Boxes, Perfumes, Compacts, Poudre d'Illusion Bath Salts, Soaps. ELIZABETH ARDEN INC., doing business as Elizabeth Arden, New York, N. Y. Published November 5, 1930.

12,921.—*Title:* MAKE A PLAN FOR BEAUTY. For Lilie Lotion, Protecta Cream, No-Shine, Illusion Powder Amoretta Cream. ELIZABETH ARDEN INC., doing business as Elizabeth Arden, New York, N. Y. Published November 1, 1930.

12,922.—*Title:* WITH HATS OFF THE FACE. For Spot-Pruf Cream, Spotpruf Lotion, Anti-Brown-Spot Ointment, Muscle Oil, Pore Cream, Antiwrinkle Cream, Poudre d'Illusion, Illusion Talcum. ELIZABETH ARDEN INC., doing business as Elizabeth Arden, New York, N. Y. Published November 3, 1930.

12,923.—*Title:* THE BIGGEST LITTLE SAW IN THE WORLD. For Jig Saws. BEEBE BROS., Seattle, Wash. Published October 31, 1930.

12,924.—*Title:* TAKE A STEVE BRODIE. For Peanut Chew Candy. SOLOMON BLOCK, doing business as Rittenhouse Candy Company, Philadelphia, Pa. Published July 29, 1930.

12,925.—*Title:* ATHLETES FOOT. For "Rab" Foot Crack and Itching Treatment. JOHN C. CROWE, Los Angeles, Calif. Published September 18, 1930.

12,926.—*Title:* APHRODITE. For Shoes. NEWTON ELKIN, Philadelphia, Pa. Published November 24, 1930.

12,927.—*Title:* POUR LE SPORT. For Jewelry. GREENLEAF & CROSBY COMPANY INC., New York, N. Y. Published October 11, 1930.

12,928.—*Title:* LE DERNIER CRI! For Jewelry. GREENLEAF & CROSBY COMPANY, INC., New York, N. Y. Published October 18, 1930.

12,929.—*Title:* POUR LE THE. For Jewelry. GREENLEAF & CROSBY COMPANY, INC., New York, N. Y. Published October 25, 1930.

12,930.—*Title:* POUR LE BAL. For Jewelry. GREENLEAF & CROSBY COMPANY INC., New York, N. Y. Published November 15, 1930.

12,931.—*Title:* POUR LES MAINS ELEGANTES. For Jewelry. GREENLEAF & CROSBY COMPANY INC., New York, N. Y. Published November 8, 1930.

12,932.—*Title:* POUR L'OPERA. For Jewelry. GREENLEAF & CROSBY COMPANY INC., New York, N. Y. Published November 1, 1930.

12,933.—*Title:* POUR LA SOIRÉE. For Jewelry. GREENLEAF & CROSBY COMPANY INC., New York, N. Y. Published November 27, 1930.

12,934.—*Title:* GOLDEN PIPPINS FINELY SHRED . . . THE UNDERCUT OF THE SIRLOIN . . . SPICES AND FRUIT. For Mincemeat. H. J. HEINZ COMPANY, Pittsburgh, Pa. Published December 1, 1930.

12,935.—*Title:* TEETH THREE SHADES WHITER. For Dental Cream. THE KOLYNOS COMPANY, New Haven, Conn. Published August 1, 1930.

12,936.—*Title:* GLISTENING WHITE TEETH. For Dental Cream. THE KOLYNOS COMPANY, New Haven, Conn. Published August 1, 1930.

12,937.—*Title:* SOUND TEETH—RADIANT HEALTH. For Dental Cream. THE KOLYNOS COMPANY, New Haven, Conn. Published August 1, 1930.

12,938.—*Title:* TEETH CLEAN AND SPARKLING WHITE. For Dental Cream. THE KOLYNOS COMPANY, New Haven, Conn. Published August 1, 1930.

12,939.—*Title:* SHEER REMOVES SUPERFLUOUS HAIR. For a Depilatory. SHEER PHARMACAL CORPORATION, St. Louis, Mo. Published September 1, 1930.

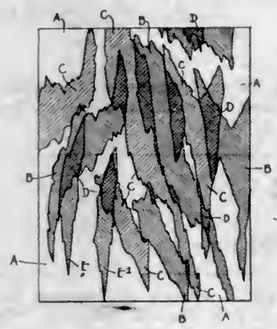
12,940.—*Title:* INSURE YOUR LIMBS AND LIFE. For Heel Retainers and Heel Braces. SURETY MANUFACTURING COMPANY, St. Louis, Mo. Published November 7, 1930.

12,941.—*Title:* UNION PACIFIC MOTOR OIL. For Oil. UNION PACIFIC OIL COMPANY, INC., Long Beach, Calif. Published November 1, 1930.

REISSUES

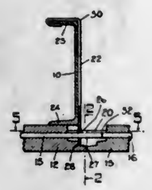
DECEMBER 30, 1930

17,912. PROCESS FOR SIMULATING NATURAL PATTERNS. LLOYD V. CASTO, Detroit, Mich., assignor to Oxford Varnish Corporation, Detroit, Mich., a Corporation of Michigan. Filed Apr. 21, 1930. Serial No. 446,113. Original application filed Jan. 24, 1927, Serial No. 163,200. Renewed Mar. 16, 1928. Original No. 1,682,067, dated Aug. 28, 1928. 21 Claims. (Cl. 101—170.)



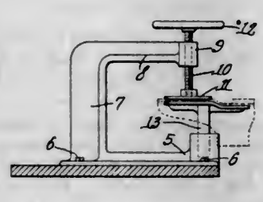
1. A process for decorating surfaces in simulation of natural subjects, having a grain or cleavage vein pattern, which includes the use of an etched plate or roll made from a photographic resist, by first treating the surface to be decorated with an underlying or ground coating of pigment, applying pigment to the etched plate or roll of a color simulating one of the natural pattern colors of the subject to be reproduced, transferring the pigment from the plate or roll to the surface to be finished, drying said transferred pattern, applying to the etched plate or roll a second pigment coating and removing said coating therefrom by a resilient roll, the second transferred pattern being over the previously transferred pattern but out of register therewith to such an extent that the duplication of pattern cannot be noticed on casual observation of the finished product.

17,913. BUILDING CONSTRUCTION. THOMAS ROWAN, Brooklyn, N. Y., assignor to Structural Gypsum Corporation, New York, N. Y., a Corporation of Delaware. Filed June 3, 1929. Serial No. 368,129. Original No. 1,632,453, dated June 14, 1927, Serial No. 20,555, filed Apr. 3, 1925. 24 Claims. (Cl. 72—118.)



12. The combination with a floor beam, of a pre-cast ceiling slab of plastic material provided with a slot, a device embedded in the slab and extended into said slot, and means engaging the floor beam and cooperating with said device within the slot, for suspending the slab from the floor beam.

17,914. DEVICE FOR FORMING RECESSES AND ENLARGEMENTS ON SHOE INSOLES. ABRAHAM SACHS, Salisbury, Md., assignor to Sachs Sole Shaping Machine Company, Incorporated, a Corporation of Maryland. Filed Aug. 15, 1930. Serial No. 475,608. Original No. 1,747,029, dated Feb. 11, 1930, Serial No. 329,783, filed Jan. 2, 1929. 4 Claims. (Cl. 12—17.)



1. A device of the class described, including a supporting member, said supporting member having a plurality of parallel and transverse communicating grooves, and members having ribs adjustably positioned in the grooves, said members being adapted to be forced into engagement with the insole of a shoe to form depressions in the insole.

17,915. RADIO FREQUENCY AMPLIFYING SYSTEM. LESTER L. JONES, Oradell, N. J. Filed Oct. 4, 1929. Serial No. 397,426. Original No. 1,713,132, dated May 14, 1929, Serial No. 51,569, filed Aug. 21, 1925. 28 Claims. (Cl. 179—171.)

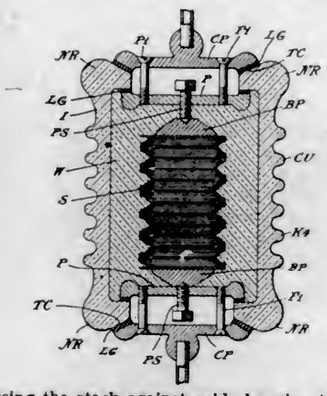


1. An amplifying system comprising an electron discharge device having an input circuit and an output circuit capacitively coupled by means of said device to

the input circuit, means for tuning the input circuit through a predetermined range of frequencies, the output circuit being untuned and embodying non-tunable coupling means, coupling the same to a subsequent circuit, said untuned output circuit in the combination with the subsequently coupled circuit having a natural frequency greater than the highest frequency of the whole frequency range through which the input circuit is tunable whereby the reactions of the output circuit on the input circuit due to the said capacitive coupling are fixed for the whole frequency range.

17,916. ELECTRIC CONDENSER. JOHN A. PROCTOR, Lexington, and WILLIAM M. BAILEY, Lynn, Mass., assignors to Wireless Specialty Apparatus Company, Boston, Mass., a Corporation of New York. Filed May 16, 1929. Serial No. 363,564. Original application filed Jan. 23, 1925, Serial No. 4,150. Divided and application filed Sept. 18, 1925, Serial No. 57,073. Original No. 1,697,477, dated Jan. 1, 1929. 42 Claims. (Cl. 175—41.)

1. The combination with an electrical condenser stack to be enclosed and compressed, of a porcelain casing surrounding the stack, a clamping terminal located inside the said casing at one end of the stack; and a device located inside the casing at the other end of the stack



and forcing the stack against said clamping terminal and thereby against the casing as a tension member of means clamping the stack.

DESIGNS

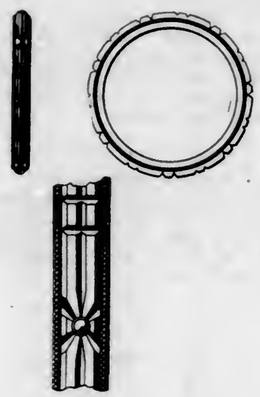
DECEMBER 30, 1930

82,926. LUGGAGE LOCK. OTTO A. BOESEL, Ansonia, Conn., assignor to The H. A. Matthews Manufacturing Company, Seymour, Conn., a Corporation. Filed Oct. 23, 1930. Serial No. 37,360. Term of patent 3½ years.



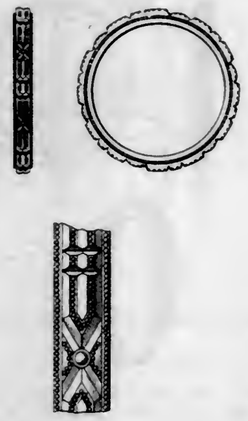
The ornamental design for a luggage lock as shown.

82,927. RING. ANDREW O. BURGESS, Brooklyn, N. Y., assignor to J. R. Wood & Sons, Inc., New York, N. Y., a Corporation of New York. Filed June 27, 1930. Serial No. 36,191. Term of patent 3½ years.



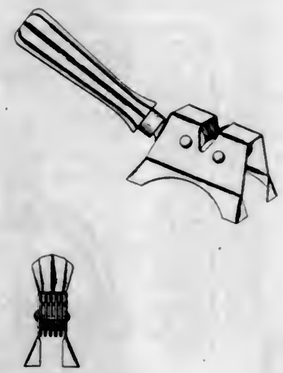
The ornamental design for a ring, as shown.

82,928. RING. ANDREW O. BURGESS, Brooklyn, N. Y., assignor to J. R. Wood & Sons, Inc., New York, N. Y., a Corporation of New York. Filed June 27, 1930. Serial No. 36,194. Term of patent 3½ years.



The ornamental design for a ring, as shown.

82,929. KNIFE SHARPENER. EDWARD W. CARPENTER, Fairfield, Conn., assignor to The E. W. Carpenter Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Nov. 8, 1930. Serial No. 37,588. Term of patent 14 years.



The ornamental design for a knife sharpener, substantially as shown.

82,930. RING. ARTHUR A. CONSTABEL, Norristown, Pa., assignor to The Bailey, Banks & Biddle Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 24, 1930. Serial No. 34,275. Term of patent 7 years.



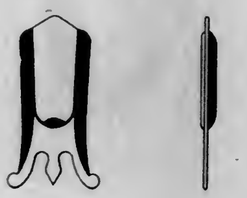
The ornamental design for a ring, as shown.

82,931. STATUETTE OR SIMILAR ARTICLE. ALICE CULIN, New York, N. Y. Filed Sept. 16, 1930. Serial No. 36,982. Term of patent 7 years.



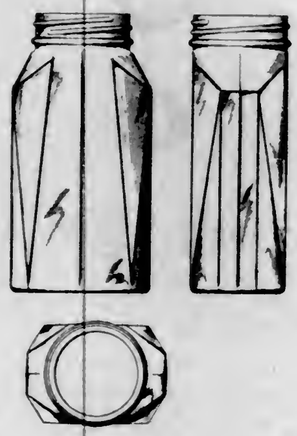
The ornamental design for a statuette or similar article, as shown.

82,932. FINGER-NAIL FILE. CLARENCE A. FORESMAN, Cicero, Ill.; Dagne Adeline Lund administratrix of said Clarence A. Foresman, deceased. Filed Mar. 27, 1930. Serial No. 35,038. Term of patent 7 years.



The ornamental design for a finger-nail file substantially as shown.

82,933. JAR. EDWIN WENDELL FUERST, Toledo, Ohio, assignor to Owens-Illinois Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 27, 1930. Serial No. 37,398. Term of patent 14 years.



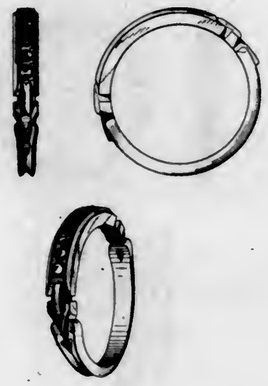
The ornamental design for a jar substantially as shown.

82,934. FINGER RING. JOSEPH GRANAT, San Francisco, Calif. Filed Oct. 1, 1930. Serial No. 37,103. Term of patent 7 years.



The ornamental design for a finger ring substantially as shown and described.

82,935. FINGER RING OR ARTICLE OF SIMILAR NATURE. EDWARD J. GROSS, New Rochelle, N. Y. Filed Nov. 6, 1930. Serial No. 37,575. Term of patent 7 years.



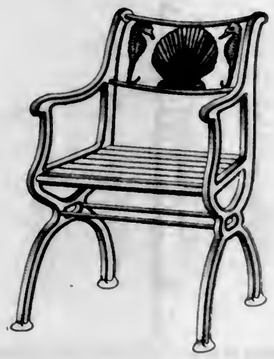
The ornamental design for a finger ring or article of similar nature as shown and described.

82,936. TEXTILE PANEL FOR A MATTRESS COVERING. HERMAN HAUG, New York, N. Y., assignor to Rosemary Mfg. Co., Roanoke Rapids, N. C., a Corporation of North Carolina. Filed Apr. 1, 1930. Serial No. 35,090. Term of patent 3½ years.



The ornamental design for a textile panel for a mattress covering, as shown and described.

82,937. CHAIR OR SIMILAR ARTICLE. EMIL HAUSER, New York, N. Y., assignor to Marcy Foundry Co., Perth Amboy, N. J., a Corporation of New Jersey. Filed Oct. 25, 1930. Serial No. 37,375. Term of patent 7 years.



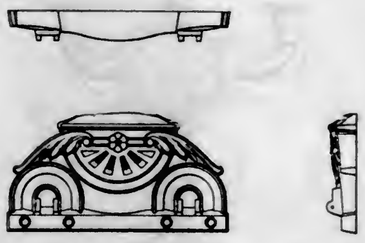
The ornamental design for a chair or similar article, as shown.

82,938. CHAIR OR SIMILAR ARTICLE. EMIL HAUSER, New York, N. Y., assignor to Marcy Foundry Co., Perth Amboy, N. J., a Corporation of New Jersey. Filed Oct. 25, 1930. Serial No. 37,376. Term of patent 7 years.



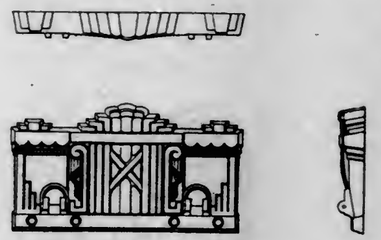
The ornamental design for a chair or similar article, as shown.

82,939. EAR FOR BURIAL-CASKET HANDLES. ROE P. HENDERSON, Springfield, Ohio, assignor to The Springfield Metallic Casket Company, Springfield, Ohio, a Corporation of Ohio. Filed Oct. 13, 1930. Serial No. 37,246. Term of patent 14 years.



The ornamental design for an ear for burial-casket handles as shown.

82,940. EAR FOR BURIAL-CASKET HANDLES. ROE P. HENDERSON, Springfield, Ohio, assignor to The Springfield Metallic Casket Company, Springfield, Ohio, a Corporation of Ohio. Filed Oct. 13, 1930. Serial No. 37,247. Term of patent 14 years.



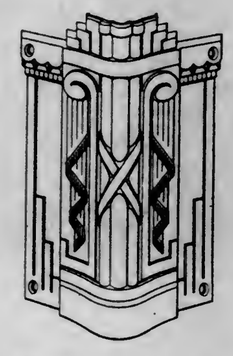
The ornamental design for an ear for burial-casket handles as shown.

82,941. CORNER FOR BURIAL CASKETS. ROE P. HENDERSON, Springfield, Ohio, assignor to The Springfield Metallic Casket Company, Springfield, Ohio, a Corporation of Ohio. Filed Oct. 13, 1930. Serial No. 37,248. Term of patent 14 years.



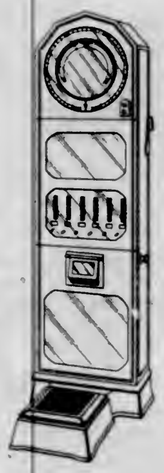
The ornamental design for a corner for burial caskets, as shown.

82,942. CORNER FOR BURIAL CASKETS. ROE P. HENDERSON, Springfield, Ohio, assignor to The Springfield Metallic Casket Company, Springfield, Ohio, a Corporation of Ohio. Filed Oct. 13, 1930. Serial No. 37,249. Term of patent 14 years.



The ornamental design for a corner for burial caskets, as shown.

82,943. CASING FOR A WEIGHING AND VENDING MACHINE. ODE D. JENNINGS, Chicago, Ill., assignor to O. D. Jennings & Company, Chicago, Ill., a Corporation of Illinois. Filed June 13, 1930. Serial No. 36,036. Term of patent 7 years.



The ornamental design for a casing for a weighing and vending machine, substantially as shown.

82,944. FAN. JAMES KARAGEORGE, Chicago, Ill. Filed Nov. 10, 1930. Serial No. 37,616. Term of patent 14 years.



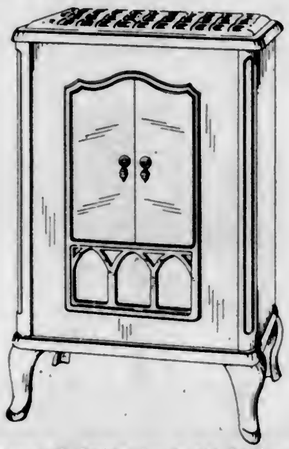
The ornamental design for a fan as shown.

82,945. BEDPOST OR SIMILAR ARTICLE. THOMAS G. KINDEL, Grand Rapids, Mich., assignor to Kindel Furniture Company, a Corporation of Michigan. Filed May 23, 1930. Serial No. 35,735. Term of patent 3½ years.



The ornamental design for a bed post or similar article, as shown.

82,946. GAS HEATER. JOSEPH E. LEONARD, Berkeley, Calif. Filed Oct. 17, 1930. Serial No. 37,281. Term of patent 7 years.



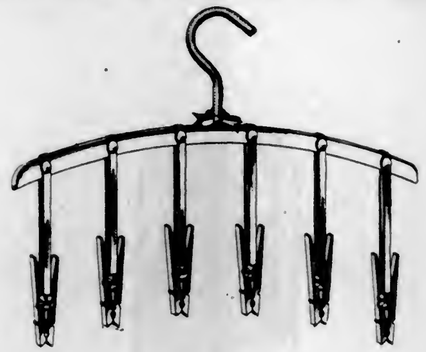
The ornamental design for a gas heater substantially as shown.

82,947. STAND LAMP OR ANALOGOUS ARTICLE. WILLIAM J. LINNEMANS, Big Rapids, Mich. Filed June 9, 1930. Serial No. 35,994. Term of patent 7 years.



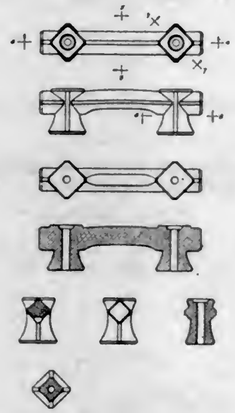
The ornamental design for a stand lamp or analogous article, as shown.

82,948. COMBINATION HANGER. SAM E. LIVINGSTON, Bloomington, Ill. Filed Oct. 25, 1930. Serial No. 37,378. Term of patent 7 years.



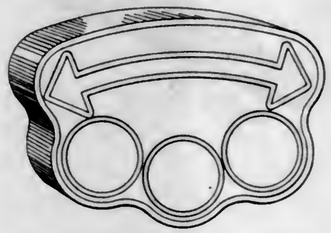
The ornamental design for a combination hanger substantially as shown.

82,949. DRAWER PULL. JAMES A. MCBRIDE, Salem, W. Va., assignor to Thomas McBride Glass Works, Inc., Salem, W. Va., a Corporation of West Virginia. Filed Oct. 9, 1930. Serial No. 37,206. Term of patent 7 years.



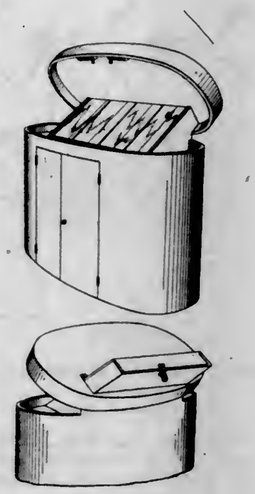
The ornamental design for a drawer pull substantially as shown.

82,950. DIRECTION SIGNAL LIGHT. RUPERT EMERSON MCGEE, Tampa, Fla., assignor of one-half to Ida M. Tracy. Filed Mar. 17, 1930. Serial No. 34,906. Term of patent 14 years.



The ornamental design for a direction signal light, as shown.

82,951. COMBINED DISPLAY AND VENDING CASE. RALPH M. MESSINGER, Toledo, Ohio. Filed Oct. 6, 1930. Serial No. 37,146. Term of patent 3½ years.



The ornamental design for a combined display and vending case as shown.

82,952. TEXTILE FABRIC. BENJAMIN S. NASH, Short Hills, N. J., assignor to The Stearns & Foster Company, Lockland, Ohio, a Corporation of Ohio. Filed July 24, 1929. Serial No. 32,175. Term of patent 7 years.



The ornamental design for textile fabric substantially as shown and described.

82,953. TUMBLER. JAMES M. PAYNE, Jr., Dunbar, W. Va., assignor to F. W. Woolworth Company, a Corporation of New York. Filed Nov. 1, 1930. Serial No. 37,488. Term of patent 3½ years.



The ornamental design for a tumbler, as shown and described.

82,954. TUMBLER. JAMES M. PAYNE, Jr., Dunbar, W. Va., assignor to F. W. Woolworth Company, a Corporation of New York. Filed Oct. 29, 1930. Serial No. 37,430. Term of patent 7 years.



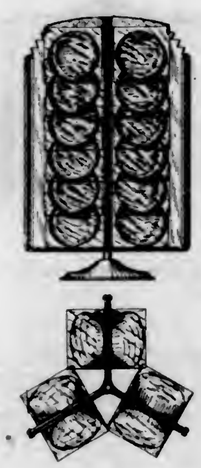
The ornamental design for a tumbler, as shown and described.

82,955. HEATING STOVE. GEORGE E. PICKUP, Newark, Ohio, assignor to The Wehrle Company, Newark, Ohio, a Corporation of Ohio. Filed July 12, 1930. Serial No. 36,330. Term of patent 7 years.



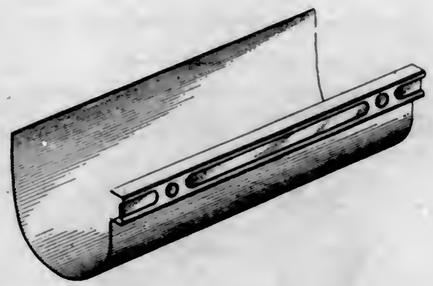
The ornamental design for a heating stove, substantially as shown and described.

82,956. ADVERTISING POWDER-PUFF-DISPLAY STAND. SAMUEL L. POMERANTZ, Brooklyn, N. Y. Filed July 21, 1930. Serial No. 36,421. Term of patent 7 years.



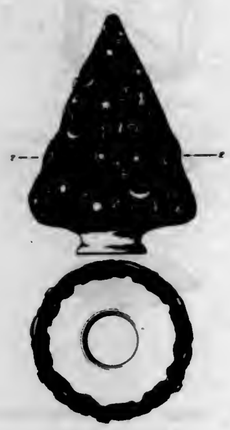
The ornamental design for an advertising powder puff display stand, as shown and described.

82,957. EAVES TROUGH. MAX RACHLIN, Brooklyn, N. Y. Filed Sept. 5, 1929. Serial No. 32,671. Term of patent 14 years.



The ornamental design for an eaves trough, as shown and described.

82,958. LAMP SHADE. FREDERICK C. SCHOENHUT, Philadelphia, Pa., assignor to The A. Schoenhut Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 28, 1930. Serial No. 37,407. Term of patent 7 years.



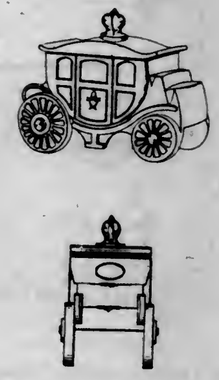
The ornamental design for a lamp shade, as shown.

82,959. SMOKER'S STAND. GOTTHOLD P. SCHWARZ, Bridgeport, Conn. Filed Nov. 3, 1930. Serial No. 37,520. Term of patent 7 years.



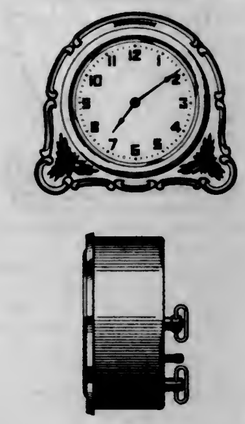
The ornamental design for a smoker's stand substantially as shown and described.

82,960. FACE-POWDER CONTAINER. ALBERT E. SIERAD, New York, N. Y., assignor to George W. Button Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 6, 1930. Serial No. 37,576. Term of patent 7 years.



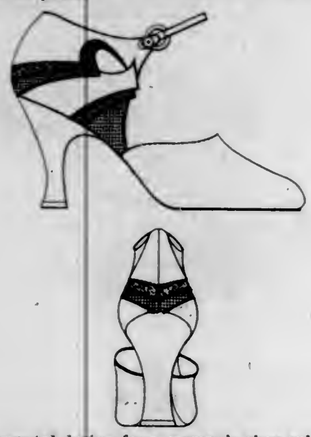
The ornamental design for a face powder container substantially as shown.

82,961. CLOCK CASE. NORMAN F. THOMPSON, Jr., Colebrook, Conn., assignor to The William L. Gilbert Clock Company, Winsted, Conn., a Corporation of Connecticut. Filed Mar. 10, 1930. Serial No. 34,801. Term of patent 8¼ years.



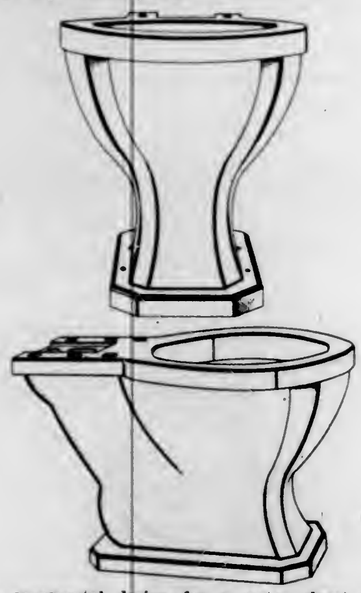
The ornamental design for a clock case as shown.

82,962. WOMAN'S SHOE. SEYMOUR TROY, Brooklyn, N. Y. Filed Sept. 19, 1930. Serial No. 37,017. Term of patent 14 years.



The ornamental design for a woman's shoe substantially as shown and described.

82,963. WATER-CLOSET BOWL. HARRY F. WEAVER, Evansville, Ind. Filed Aug. 8, 1930. Serial No. 36,600. Term of patent 14 years.



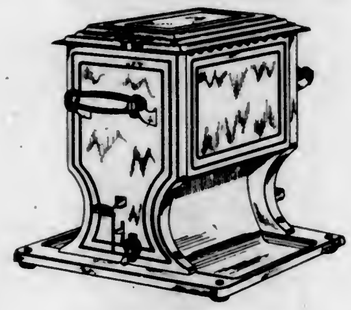
The ornamental design for a water closet bowl, as shown.

82,964. VANITY CASE. SIMON MORRISON, New York, N. Y. Filed Oct. 3, 1929. Serial No. 32,919. Term of patent 14 years.



The ornamental design for a vanity case, as shown.

82,965. TOASTER. EDWIN A. RUTENBER, Milwaukee, Wis., assignor to A. J. Lindemann-Hoverson Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 29, 1930. Serial No. 37,435. Term of pateut 14 years.



The ornamental design for a toaster, as shown.

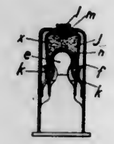
PATENTS

GRANTED DECEMBER 30, 1930

1,786,417. ADHESIVE COMPOUND AND PROCESS OF MAKING SAME. WALTER ALEXANDER, White Plains, N. Y. Filed July 25, 1928. Serial No. 295,354. 5 Claims. (Cl. 87—17.)

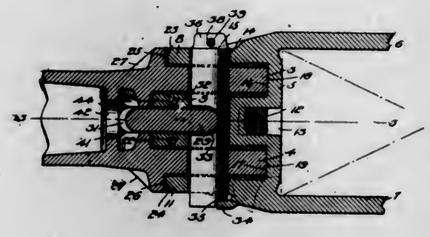
1. An adhesive consisting of a starch, a water-soluble, alkaline boron compound and diethylene glycol.

1,786,418. FACE PAINT OR FARD DISTRIBUTOR WITH STUMP. PIERRE BAQUEY, otherwise known as Gaston Baquey, Colombes, France. Filed July 2, 1929, Serial No. 375,490, and in Luxemburg July 5, 1928. 4 Claims. (Cl. 132—82.)



4. In a face paint or fard distributor with stump, the combination of a body carrying the stump, a cap adapted to slidably fit on the said body and to cover the said stump, a removable cup in the said cap and open on the side of the latter having an opening, two side fixed springs in the said cap and adapted to hold the said cup, a screw screwed in the bottom of the said cup and fitted in the bottom of the said cap, a sachet-sieve in the said cap for containing face paint in powder form, the arrangement being such that the said stump may enter the said cup.

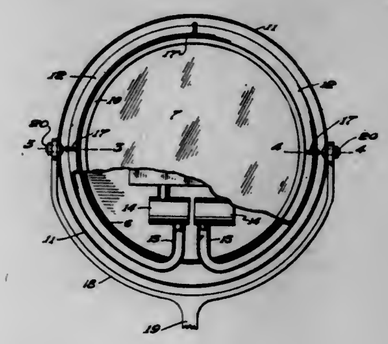
1,786,419. DRAFT RIGGING. DONALD S. BARROWS, Rochester, N. Y., assignor to The Symington Company, New York, N. Y., a Corporation of Maryland. Continuation of application Serial No. 4,443, filed Jan. 24, 1925. This application filed Aug. 17, 1928. Serial No. 300,401. 47 Claims. (Cl. 213—71.)



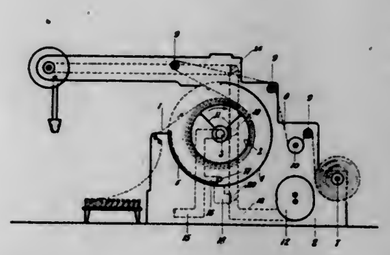
12. In a railway draft rigging, the combination with a coupler, of a yoke, a pin connecting said yoke and coupler, a key extending at an angle thereto, engaging said coupler and yoke, and intersecting said pin for retaining the same in position and preventing rotation thereof.

1,786,420. ILLUMINATED MIRROR. NORMAN BLYTHE BRALY, Redwood City, Calif. Filed Dec. 8, 1928. Serial No. 324,677. 5 Claims. (Cl. 240—4.1.)

3. An illuminated mirror, comprising a casing having a mirror on its front wall, a retaining ring for the mirror detachably fitted to and surrounding the casing and having an inturned flange overlying the mirror and an outstanding forwardly faced channeled flange, a luminary of tubular form located in the channel, and means in the casing for causing the luminary to become active.



1,786,421. METHOD OF TREATING TEXTILES OF CELLULOSE FIBER. ADOLPH WALTER BUHLMANN, Mount Vernon, N. Y. Filed Apr. 11, 1929. Serial No. 354,324. 1 Claim. (Cl. 26—49.)

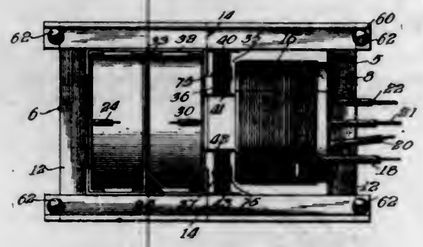


The process of treating fabrics of synthetic fiber with the result of removing the flat high lustre, swelling the fiber and softening the fabric, consisting in permeating the fabric with steam at a pressure of approximately 15 lbs., and temperature of approximately 213° F., and thereafter cooling the fabric and withdrawing the steam by forcing air through the fabric.

1,786,422. TRANSFORMER. JAMES C. DALEY and EDWIN G. GODDARD, Chicago, Ill., assignors to Jefferson Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 11, 1927. Serial No. 232,523. 26 Claims. (Cl. 171—119.)

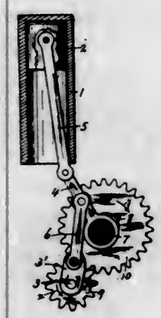
1. In a transformer having a primary coil for connection with the exciting current, a secondary, primary and secondary cores, and means in said transformer for inducing a relatively high initial voltage in the secondary

and for thereafter decreasing the voltage in the secondary, said means including a shunt path in the primary



core and a butt joint between the primary and secondary cores adjacent said shunt and on the secondary side thereof.

1,786,423. INTERNAL-COMBUSTION ENGINE. CHARLES P. CADY, Canastota, N. Y. Filed May 7, 1928. Serial No. 275,728. 11 Claims. (Cl. 123—78.)



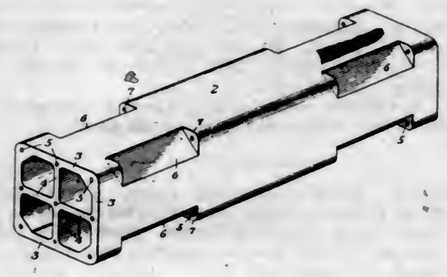
1. In an internal combustion engine having a reciprocatory piston, a rotary crank-shaft and a rotary cam-shaft actuated by the crank shaft, a lever having one end eccentrically pivoted to the cam shaft, and pitmen connected to the lever at different fixed distances from the pivotal connection of the lever with the cam shaft, said pitmen being pivotally connected to the piston and to the crank shaft respectively.

1,786,424. KNIFE-EDGE BEARING. RENÉ FRANÇOIS HENRI CAILLAUD, St. Maurice, France, assignor to Societe Anonyme des Etablissements Luteraan, Paris, France. Filed Oct. 20, 1928, Serial No. 313,835, and in France Nov. 7, 1927. 1 Claim. (Cl. 308—2.)



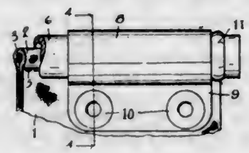
The combination of a knife edge with an eccentric bearing support comprising a main support having a circular opening therein, a bearing sleeve mounted in said opening and having an opening eccentric to said first mentioned opening, a knife edge having a tapered shank fitting said opening, and means for securing said tapered shank in the opening in any angular position, whereby by turning both the bearing sleeve and knife edge said edge may be moved in a vertical direction.

1,786,425. CONDUIT AND METHOD OF MAKING SAME. LLEWELLYN M. CHRISTIE, Pittsburgh, Pa., assignor, by mesne assignments, to National Fireproofing Corporation, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 6, 1928. Serial No. 267,851. 15 Claims. (Cl. 247—27.)



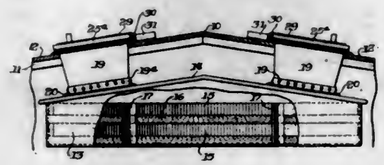
1. A ceramic conduit section for electric installations comprising a unitary homogeneously formed body portion and end flanges integral with the body portion and provided with means for connecting the section to adjacent sections.

1,786,426. BAG CLOSURE. JAMES K. DIAMOND, Grand Rapids, Mich. Filed June 20, 1927. Serial No. 199,975. 7 Claims. (Cl. 150—5.)



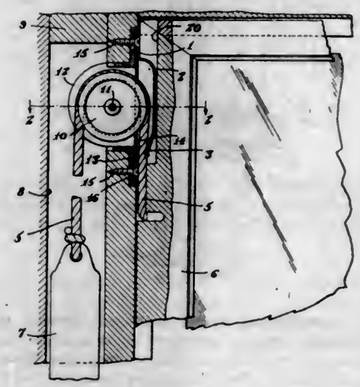
5. In a bag closure, the combination of a bag having an opening provided with beaded edges, a longitudinally slotted tubular closure telescopingly engaging the said beaded edges, and a supporting sleeve for said closure member secured to said bag.

1,786,427. POULTRY CAR. ISRAEL V. EDGERTON, Chicago, Ill., assignor to Palace Poultry Car Company, Chicago, Ill., a Corporation of Illinois. Original application filed May 19, 1927, Serial No. 192,609. Divided and this application filed Mar. 19, 1928. Serial No. 262,635. 2 Claims. (Cl. 119—10.)



1. The combination with a car roof formed with an opening and a water tank therebeneath, of a filling spout mounted in the roof of said tank filling and projecting above said car roof opening, said spout formed with an integral external depending flange on its upper end, and an angle sealing ring having a base portion resting on and attached to said car roof around the projecting portion of said spout and an upstanding flange at its upper end encircled by said depending flange and forming a dust and water proof joint with the latter.

1,786,428. WINDOW-PULLEY SHIELD. REGINALD L. HOWARD, Roxbury, Mass., assignor, by direct and mesne assignments, to How-Mac, Inc., Dorchester, Mass., a Corporation of Massachusetts. Filed June 22, 1929. Serial No. 372,957. 3 Claims. (Cl. 16—210.)

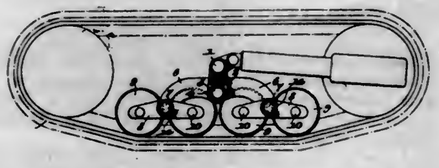


3. A shield for window cord pulleys, comprising a plate, a housing formed thereon, the bottom end of said housing having an opening therein, the edges of said opening being flared to prevent injury to a cord traveling therethrough, the said plate having a slit communicating with said opening, said plate having sufficient resiliency to permit spreading at said slit, whereby the shield may be applied over the window cord while said cord is in position, and the edges of said slit being normally in substantial engagement.

1,786,429. DOOR. BERTRAND B. KAHN, Cincinnati, Ohio, assignor to The Estate Stove Company, Hamilton, Ohio, a Corporation of Ohio. Filed Sept. 10, 1928. Serial No. 304,996. 18 Claims. (Cl. 126—190.)

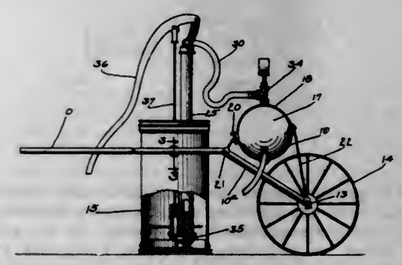
1. An oven door comprising a rigid back plate assuming substantially all the door strains, hinge means fixed to said back plate and providing a pair of spaced pivot members, a front finish plate, and means for fastening said front finish plate to said back plate without direct connection to said hinge means so that the front plate is substantially free from stress in normal door movements, the points of fastening all being inwardly spaced from the peripheral edges of said finish plate.

1,786,430. ENDLESS-TRACK VEHICLE. ADOLPHE KÉGRESSE, Suresnes, France. Filed Apr. 13, 1928, Serial No. 269,780, and in France Apr. 15, 1927. 1 Claim. (Cl. 305—9.)



A bearing train for endless flexible track belts, comprising a supporting axle, a sleeve fitted on and secured to said axle and provided with a pair of spaced depending cheeks, a main rocking beam having down-turned end portions, the central portion of the beam being disposed between and pivotally connected to said cheeks, and bearing rollers connected two-and-two to said beam ends, the pivotal connection between the cheeks and the central portion of the beam consisting of a pair of short trunnions provided on one of the two connected elements, and shallow bearings provided on the other element to receive the trunnions therein but free of axial connection between said trunnions.

1,786,431. SPRAYER. ANTON W. KEGLER, Minneapolis, Minn., assignor to Hudson Manufacturing Co., Minneapolis, Minn., a Corporation of Minnesota. Original application filed Feb. 20, 1924, Serial No. 694,019. Renewed Apr. 28, 1928. Divided and this application filed Sept. 17, 1928. Serial No. 306,319. 8 Claims. (Cl. 299—45.)



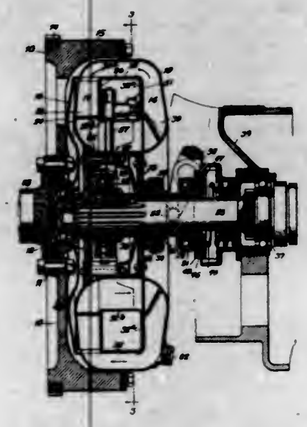
7. In a portable spraying apparatus the combination with a single wheel frame, a tank swingingly mounted to act as a foot for the frame, a second tank mounted upon the frame, means for delivering liquid from one tank to the other including a flexible delivery tube.

1,786,432. LUBRICATING DEVICE. GEORGE KIRK, North Providence, and ANDREW C. DANVER, Providence, R. I.; said Kirk assignor to said Danver. Filed Jan. 4, 1929. Serial No. 330,384. 5 Claims. (Cl. 261—121.)



1. In a lubricating device, the combination of an oil reservoir having a domed top, an intake pipe having an outlet in the dome of the reservoir and extending down through the bottom thereof, means for connecting the lower end of said pipe with the intake manifold of an engine, a baffle-plate partitioning the dome from the reservoir and provided with restricted openings disposed outwardly from the intake pipe, and an atomizing duct leading from the atmosphere to the bottom of the reservoir.

1,786,433. POWER TRANSMITTER. GUSTAV A. KLIMEK, East Rutherford, N. J., assignor to Turbine Patents Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 3, 1927. Serial No. 172,285. 20 Claims. (Cl. 60—54.)



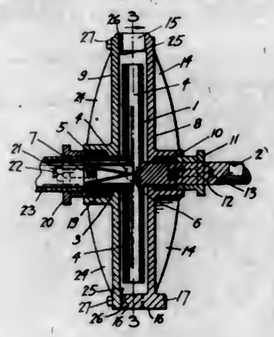
1. A power transmitter including a pump impeller, a turbine rotor for receiving liquid directly from said impeller and returnng said liquid directly to the impeller, and means for by-passing the liquid freely and without obstruction past the rotor to the inlet of the impeller and simultaneously closing the inlet of the rotor.

1,786,434. MULTICOLOR PENCIL. PAUL KOHLER, Pforzheim, Germany. Filed Nov. 7, 1927, Serial No. 231,643, and in Germany Oct. 28, 1926. 8 Claims. (Cl. 120—14.)



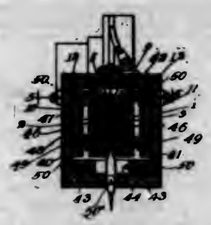
1. A multicolor-pencil with propelling pencils of different colours adapted to be selected for writing, comprising in combination an outer casing of octagonal cross-section, octagonal guide sleeves soldered together in longitudinal direction rotatably mounted in said casing, sliding elements of octagonal cross-section shiftably mounted in said guide-sleeves, a short rotatable pencil for each guide-element, and a flexible spring connecting said pencil with said guide-element.

1,786,435. CENTRIFUGAL PUMP. STEVE KOMPALA, Denver, Colo. Filed June 11, 1928. Serial No. 284,641. 9 Claims. (Cl. 103—103.)



1. In a centrifugal pump, a closed housing provided with discharge means, a rotor concentrically mounted to rotate in the housing and spaced from the internal circumference thereof, the rotor being provided with a central axially extending intake passage and with straight radial passages in communication therewith, a concave faced pyramid at the inner end of said intake passage having a concave face aligned with each radial passage, and a distributor in said intake passage provided with channels adapted to register with said radial passages and said concave faces whereby the fluid pumped is divided into separate streams during its movement through said intake passage and provided with streamline paths of travel from the intake passage to the radial passages said channels being separated adjacent their outer circumference at the outer end of the distributor by walls of small radial extent, tapered portions being removed from the central part of said walls.

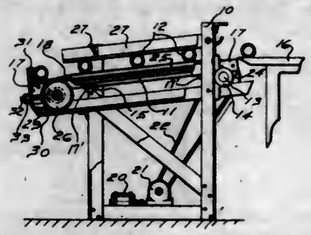
1,786,436. ELECTROSTATIC REPRODUCER. RALPH H. LEFFLER, Batavia, Ill. Filed Jan. 18, 1929. Serial No. 333,492. 4 Claims. (Cl. 179—100.41.)



1. An electrostatic reproducer for the reproduction of records comprising a flexible metallic plate associated with fixed metallic plates to form several variable capacity elements, said flexible plate being mounted at its ends beyond said fixed plates, the body of said flexible plate being between said fixed metallic plates in such a manner that inverse capacitance variations are produced simultaneously between said movable plate and said fixed plates by lateral movement of one of the extending ends of said flexible plate.

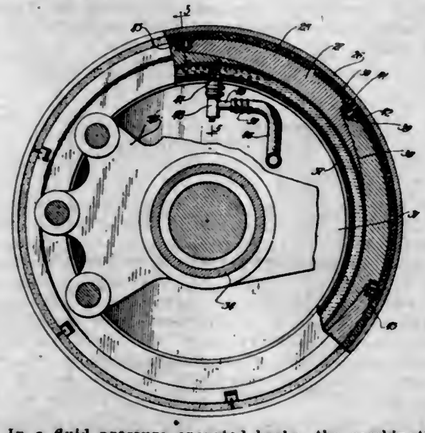
1,786,437. AUTOMATIC TUBE-DUSTING DEVICE. PAUL W. LEHMAN, Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Jan. 27, 1928. Serial No. 250,023. 5 Claims. (Cl. 91—59.)

2. A device for applying powder to green rubber tubes while the latter are supported on mandrels which comprises a relatively stationary padded support, a powder carrying belt traveling over the support and adapted to receive and advance the tubes and pressure means positioned to engage the end portions of the tube mandrels to force the tubes and the underlying portions of the belt



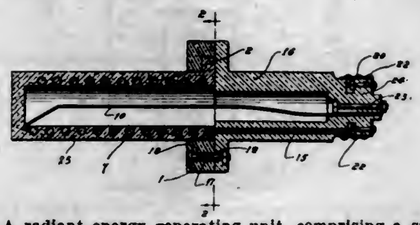
into the padding of the support, said pressure means tending to retard the advance of the mandrels to cause the tubes to rotate with respect to the surface of the belt.

1,786,438. FLUID-PRESSURE BRAKE. BERT A. LINDERMAN, New York, N. Y., assignor to Linderman & Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 1, 1924. Serial No. 753,085. 5 Claims. (Cl. 188—152.)



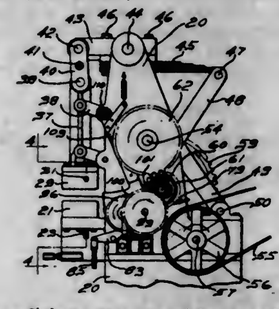
3. In a fluid pressure operated brake, the combination of a support member, a collapsible, hollow tube mounted thereon, braking means adapted to be shifted by the inflation of said tube to operate the brake, said tube having an inflating nipple projecting therefrom and connecting to a source of fluid, a relatively small tube mounted within said nipple projecting into said inflatable tube, said relatively small tube having a discharge opening to the atmosphere through the wall of said nipple and a valve for opening and closing said opening.

1,786,439. RADIANT-ENERGY-GENERATING UNIT. ROLLAND H. MAXSON, Milton, Wis., assignor to The Burdick Corporation, Milton, Wis., a Corporation of Delaware. Filed May 21, 1927. Serial No. 193,221. 10 Claims. (Cl. 174—177.)



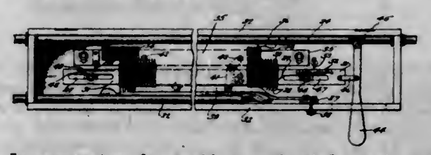
1. A radiant energy generating unit, comprising a supporting base member, a sub-base secured to said base member and adapted for partial reception within a receptacle support, a refractory element carried by said base and interlocking with the base, and an electrical heating coil imbedded in the refractory element and having electrical connections terminating at the sub-base.

1,786,440. TUBE-SPLICING PRESS. CHARLES E. MAYNARD, Northampton, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Aug. 3, 1927. Serial No. 210,294. 5 Claims. (Cl. 18—17.)



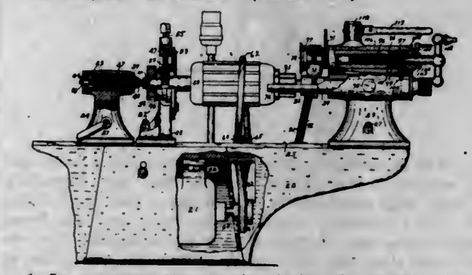
3. A tube splicing press comprising a pair of substantially flat platens having opposed splice receiving grooves, mechanism for moving the platens towards or away from each other, manual means for initiating the platen closing movement of said mechanism, and time controlled means for initiating the platen opening movement of said mechanism.

1,786,441. CHANGE-KEY SWITCH FOR MUSIC-REPRODUCING MACHINES. BERT E. MILLS, Oak Park, Ill., assignor to Mills Novelty Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 16, 1927. Serial No. 219,870. 13 Claims. (Cl. 84—461.)



5. In apparatus for making perforated music rolls, the combination of a master roll operated electric controller, a perforating machine electrically operated by said controller and adapted to reproduce the roll, a switch in the electrical connections between the controller and the perforating machine whereby the latter may be caused to reproduce rolls adapted for playing in a different key than that for which the master roll is prepared, and an instrument playable from the master roll but in the key of the reproduced rolls.

1,786,442. COMMUTATOR-TURNING LATHE. HARRY G. MILLER, Denver, Colo. Filed Oct. 20, 1926. Serial No. 142,841. 24 Claims. (Cl. 29—27.)

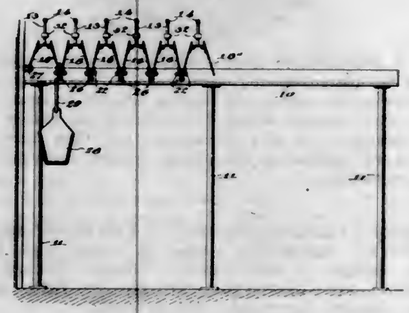


1. In a commutator turning lathe, the combination of means for supporting and centering an armature in its

own bearings, a tool holder, a tool feed bar, a hollow spindle mounting for said bar, a feed screw for slowly actuating the bar together with the spindle, rack and pinion mechanism for reciprocating the spindle and feed screw along a line parallel to the axis of the armature, means for locking the feed screw against reciprocation, and turning and grooving tools for the tool holder.

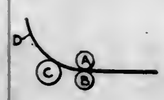
2. In a commutator turning lathe, the combination with a head stock, of a tool holder spindle provided with a rack, a manually operable pinion in mesh with the rack, a tool feed bar mounted in the spindle, a feed screw for actuating the feed bar and spindle, bearings therefor, means for locking and releasing said bearings, and a tool holder provided with turning and grooving tools interchangeably adjustable to position for operation upon the work.

1,786,443. POULTRY ROOST. CURTIS H. MOOMAW, Springfield, Mo. Filed Dec. 20, 1927. Serial No. 241,370. 7 Claims. (Cl. 119—22.)



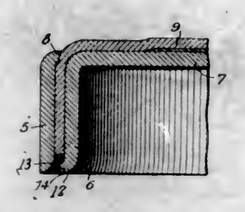
1. A poultry roost comprising an elongated support, drop board sections arranged above said support and normally disposed in close edge to edge relation, means interconnecting the adjacent side edges of all of said sections whereby the same will be adapted to be moved in successive pairs from one end of said support to oppositely inclined positions and in a manner that the adjacent side edges of each pair will be spaced apart for the discharge of droppings and other soil accumulations thereon downwardly of the spaces so provided, and roost bars disposed in spaced relation above said drop board sections.

1,786,444. PROCESS FOR TREATING MILL BAND SAWS. OTTO MUEHLEN, Denver, Colo. Filed June 17, 1927. Serial No. 199,552. 11 Claims. (Cl. 76—27.)



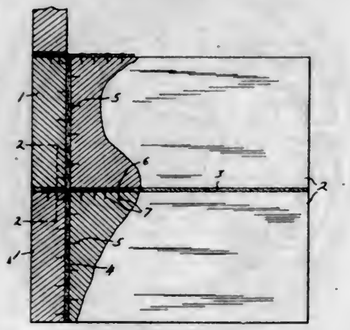
1. The process of equalizing the strains in a band saw by bending, consisting of passing the saw repeatedly through rolls composed of two gripping and one bending roll and alternately reversing the upper and the lower faces thereof and thereby alternately stretching first one side and then the other side of the saw and reducing the amount of such stretching for the final one or more of such complete operations.

1,786,445. PHONOGRAPH BEZEL. HENRY RODLEY NAYLOR, Seymour, Conn., assignor to The H. A. Matthews Manufacturing Company, Seymour, Conn. Filed Dec. 1, 1928. Serial No. 323,031. 4 Claims. (Cl. 274—39.)



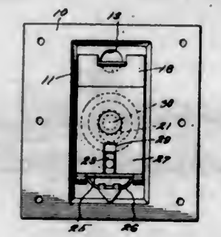
1. In combination with a phonograph turntable, having a dependent flange with a small outwardly turned rim at the edge thereof, a continuous one piece bezel engaged over said flange and having a small thinned inwardly turned bezel rim at the upper edge thereof.

1,786,446. MEANS FOR SECURING ELECTRIC BARRIERS AND THE LIKE. PAUL NICHOLAY, Wayne, Mich., assignor of one-half to Charles W. Attwood, Wayne, Mich. Filed Nov. 10, 1927. Serial No. 232,277. 2 Claims. (Cl. 72—101.)



1. The combination with two substantially abutting insulating barriers, of a binding layer of cementitious material arranged between abutting faces of said barriers, and spaced anchorage members carried by both of said barriers and projecting into said binding layer to rigidly connect both barriers to said layer, said anchorage members having heads of greater area than the remainder of said members adapted to be embedded within said binding layer.

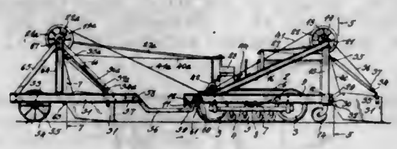
1,786,447. KEYLESS CATCH AND COMBINATION LOCK. GUST J. NYROSE, Claresholm, Alberta, Canada. Filed July 14, 1927, Serial No. 205,725. Renewed May 17, 1930. 2 Claims. (Cl. 70—55.)



1. A lock of the class described having a casing, a stud, a latch slide within the casing having a slot through

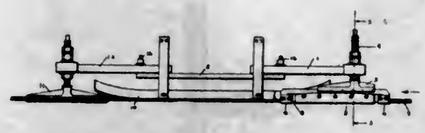
which the stud passes, said slide having an end wall at an angle thereto, means urging said end wall into contact with the stud, an operating shank journaled in the slide, an actuating member on the shank having a slot registrable with said stud and having a lug, a removable frame engaging said slide and fitting said wall, said frame carrying said stud; said stud extending into said shank, tumbler members journaled on the stud and having elongated slots into which the lug extends, and said tumbler members having slots to register with the first mentioned slot for the purpose specified.

1,786,448. DUPLEX POWER SCRAPER. HAROLD M. PURSEL, Casper, Wyo., assignor to Sharrock and Pursel, Casper, Wyo., a Copartnership consisting of W. G. Sharrock and Harold M. Pursel. Filed Jan. 23, 1930. Serial No. 422,809. 1 Claim. (Cl. 37—118.)



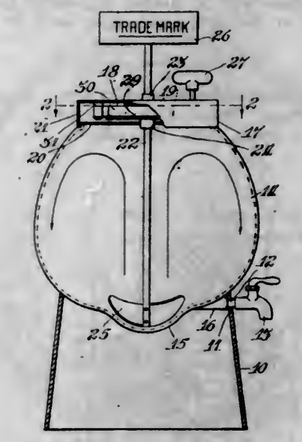
A trailer attachment for a power operated scraper, comprising, in combination, a substantially rectangular frame, a supporting axle secured to the rear end of the frame, two wheels carried by the axle, the frame having a transverse beam in front of the wheels, the front end of the frame having a substantially triangular hitch frame secured thereto, the front end of the rectangular frame forming the base of the hitch frame, a scraper located within the rectangular frame, the rear end of the scraper being pivotally attached to the transverse frame member, a vertical supporting beam extending upwardly from each of the side members of the rectangular frame, a shaft rotatably supported on the upper ends of the vertical beams, means including the shaft for tilting the scraper and means for latching the scraper in tilted position.

1,786,449. TROLLEY-WIRE CONTACTOR. GEORGE D. RABUN, Louisville, Ky., assignor to Cheatham Electric Switching Device Company, Louisville, Ky. Filed Oct. 30, 1926. Serial No. 145,273. 18 Claims. (Cl. 246—254.)



1. In apparatus of the class described, the combination of a body member adapted for attachment to a trolley wire and having an integral contact shoe insulated from but embracing and holding said wire to said body.

1,786,450. AGITATING DISPLAY JAR. ALBERT E. REPENNING and CLAYTON J. HOWEL, Chicago, Ill., assignors to Orange-Crush Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 20, 1929. Serial No. 341,404. 5 Claims. (Cl. 40—28.)



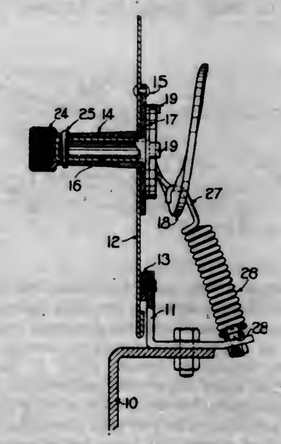
1. A display dispensing device comprising a transparent reservoir, a slip-on cover thereon having a stirring mechanism therein, and a spring motor in said cover for actuating said stirring mechanism.

1,786,451. OAR BLADE OR THE LIKE. JEAN LOUIS RIBARD, Paris, France. Filed June 1, 1928, Serial No. 282,203, and in France June 10, 1927. 1 Claim. (Cl. 9—24.)



An oar blade having longitudinal rows of openings therein, the corresponding openings in relatively adjacent rows being relatively longitudinally offset, and the said openings each having the form of two truncated cones meeting at their smaller ends.

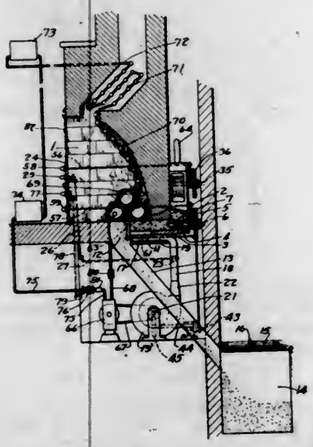
1,786,452. HOOD FASTENER. CHESTER S. RICKER, Indianapolis, Ind. Filed June 14, 1924. Serial No. 719,973. 4 Claims. (Cl. 292—241.)



1. A fastener for retaining an automobile hood against its associated sill, comprising a tension spring attached

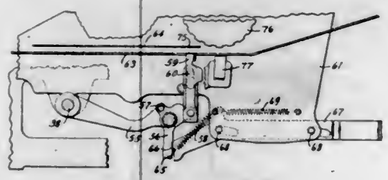
at one end to said sill, and a spiral cam carried by said hood and rotatably mounted thereon, said cam having a camming surface which, as the cam is rotated, engages the free end of the spring and moves thereover to stretch the spring, said cam being provided at one end of said camming surface with a locking depression into which the free end of the spring may drop after it has been stretched.

1,786,453. COMBINATION FIREPLACE. IVAN RISDON, Seattle, Wash. Filed July 18, 1928. Serial No. 293,747. 1 Claim. (Cl. 126—120.)



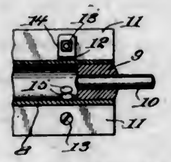
In a combination fireplace of the character described, a chimney having a hearth opening in the side thereof, a floor in the said opening, a grate in an opening in the said floor, mechanical means for feeding fuel to a point at the closed side of the said chimney and directly behind the said hearth opening, other mechanical means for feeding the said fuel through the said chimney and into the floor opening below the grate, and means for forcing a draft up through the said floor opening.

1,786,454. CASH REGISTER. WILLIAM H. ROBERTSON, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Filed June 14, 1926. Serial No. 115,924. 11 Claims. (Cl. 235—130.)



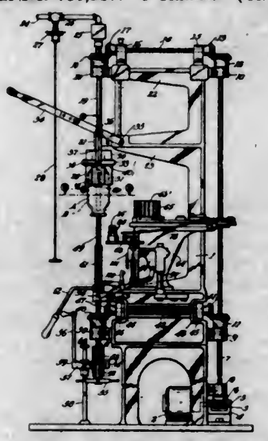
1. In a machine of the class described, the combination of a record material container, a machine operating means, detaining means for said operating means, manually operated means to release said detaining means, means for arresting said detaining means after it has made a partial operation when no record material is in the container, and a manipulative device for moving the arresting means into a position, whereby said arresting means will be ineffective upon subsequent insertion of record material into the container after the manipulative device is released.

1,786,455. STALK CUTTER. JAY ROBBINS, Cooledge, Tex. Filed Mar. 30, 1928. Serial No. 265,942. 1 Claim. (Cl. 97—215.)



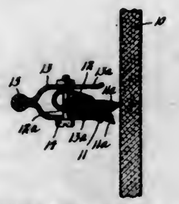
A cutter of the character described comprising a cylinder having cores disposed within the ends thereof, stub axles carried by and projecting from the cores, brackets secured upon the outer surface of the cylinder, ears projecting from the opposed side portions of the bracket members in right angularly disposed relation, and blades having fixed connection with the ears.

1,786,456. METHOD OF AND APPARATUS FOR ASSEMBLING GLASS BLANKS. ERICH H. ROHL, Chicago, Ill., assignor to The Mantle Lamp Company of America, Chicago, Ill., a Corporation. Filed Dec. 15, 1924. Serial No. 756,137. 6 Claims. (Cl. 49—1.)



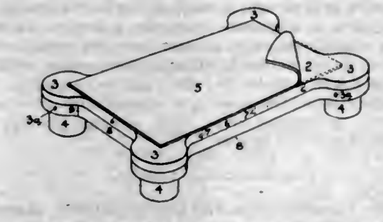
1. An assembling machine for glass blanks, including means for bringing an inner and an outer hollow blank into concentric relations with the open ends of said blanks downward, means for synchronously rotating said blanks, fires for heating the pendent edges of said blanks, internal means for sustaining the lower end of the inner blank and means for uniting and shaping said pendent edges.

1,786,457. WINDSHIELD-WIPER ELEMENT AND CONSTRUCTION. RAY D. SARVER, Minneapolis, Minn. Filed Oct. 28, 1927. Serial No. 229,336. 2 Claims. (Cl. 15—255.)



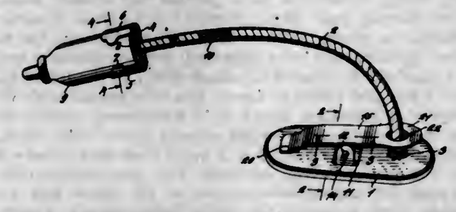
1. In a windshield wiper, a strip of yieldable material having an obtuse-angled V-shaped groove in one of its longitudinal edges, said groove intersecting the sides of the strip to form a pair of sharp edge portions, and means for moving the strip over a windshield with said edge portions alternately engaging the surface thereof.

1,786,458. INSULATING NONTILTING STOOL. EMANUEL F. SHIPMAN, Philadelphia, Pa. Filed Dec. 11, 1929. Serial No. 413,185. 6 Claims. (Cl. 173—28.)



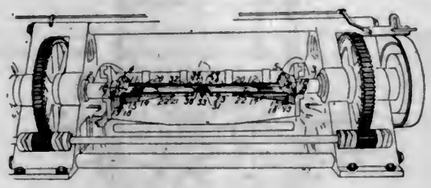
1. An insulating non-tilting stool, comprising a body portion of general rectangular shape composed of upper and lower boards secured together to form a multi-ply structure of substantially uniform thickness, and in which the corner portions of the upper and lower boards are extended beyond the general rectangular body portion, insulating foot portions having their upper ends extended into the lower boards of the multi-ply corner portions, and said foot portions extending beyond the rectangular area of the body portion.

1,786,459. BABY-BOTTLE HOLDER. BURDICK SIMONS, Denver, Colo. Filed July 30, 1926. Serial No. 125,941. 3 Claims. (Cl. 248—65.)



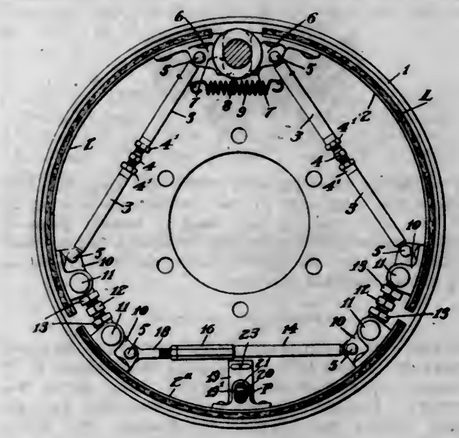
1. A bottle holder comprising a base, an arm attached thereto and bottle holding means on said arm, said base being of a size and weight sufficient to maintain said holder in upright position when said base is resting on a supporting surface, and having a clamping member attached thereto whereby said holder may be clamped to a support.

1,786,460. STAY LOG. JOHN S. STONE, Kansas City, Mo., assignor to Penrod Walnut and Veneer Company, Kansas City, Mo., a Corporation of Missouri. Filed Aug. 1, 1928. Serial No. 296,761. 3 Claims. (Cl. 144—214.)



1. In combination with a stay log having longitudinal edge log-engaging flanges and log-engaging means extending through said flanges for securing a veneer log to the stay log, a plate secured to the stay log on the face opposite to said flanges including a central thickened portion on the median line of the log having a pin-receiving opening, and a threaded log-engaging pin extending through said opening, adapted to be anchored by the plate, the stay log having an opening to admit the pin to veneer log portions spaced from said log-engaging flanges for stabilizing the veneer log.

1,786,461. INTERNAL EXPANSION BRAKE. GEORGE H. STONER, East Boston, Mass., assignor, by mesne assignments, to Stoner-Ames Brake Company, Inc., Boston, Mass., a Corporation of Massachusetts. Filed July 13, 1927. Serial No. 205,477. 13 Claims. (Cl. 188—78.)

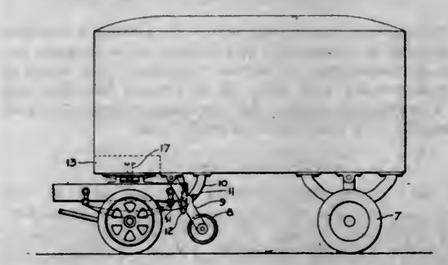


1. In a brake, a pair of shoes and an intermediate shoe pivotally linked to each and a radially yieldable mount for the intermediate shoe in sustaining relation thereto.

1,786,462. PLASTIC COMPOSITION. GEORGE B. STRYKER, Jr., Memphis, Tenn., assignor to The Weatherproof Products Company, Memphis, Tenn., a Corporation of Tennessee. Filed July 31, 1928. Serial No. 296,607. 1 Claim. (Cl. 92—41.)

As an article of manufacture a heat-insulating material comprising finely comminuted cotton stalk fibre, 67 to 78% (by weight); finely comminuted paper waste, 25% by weight; and dissolved rosin, 2 to 8% by weight.

1,786,463. TRAILER CONSTRUCTION. DAVID R. THOMAS, Cleveland, Ohio. Filed Sept. 7, 1929. Serial No. 390,952. 10 Claims. (Cl. 105—159.)



1. A vehicle of the class described having coupling mechanism in which the entire coupling mechanism is disposed within the limits of the general contour of the vehicle body.

2. A vehicle of the class described having a body, individually supported wheels mounted on said body and coupling means disposed entirely within the limits of the general contour of said body.

1,786,464. SHOVEL FOR POTATO DIGGERS. PETER SKOVBY THOMSEN, Great Village, Nova Scotia, Canada. Filed Jan. 5, 1929. Serial No. 330,441. 1 Claim. (Cl. 55—9.)

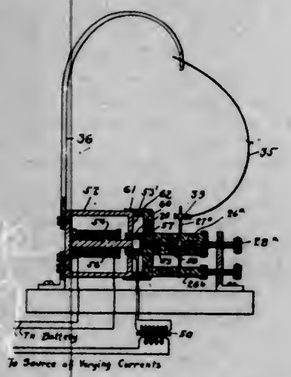
A shovel for a potato digger having an endless elevator, said shovel comprising longitudinally directed spaced

bars extending forwardly and downwardly from beneath the receiving end of the elevator, said bars being slightly upwardly curved, heads integral with the frontal ends of said bars, said heads consisting of enlarged members flared to produce broad flat penetrating surfaces and guide



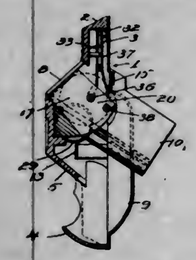
rods extending upwardly and rearwardly from the said heads to the upper side of the elevator, there being at least two guide rods to each head to prevent potatoes dropping through, said guide rods being of a less substantial structure than the bars so as to constitute an apron for potatoes uprooted thereby.

1,786,465. ELECTROMAGNETIC SOUND-PRODUCING DEVICE. JAMES H. VAN WAGENEN, Washington, D. C. Original application filed May 10, 1923, Serial No. 638,079. Divided and this application filed Apr. 24, 1928. Serial No. 272,535. 13 Claims. (Cl. 179—115.5.)



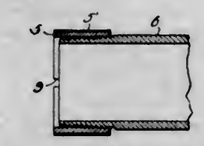
1. An electric translating device comprising a movable coil element in a magnetic field subject to mechanical impulses corresponding to sound vibrations and resilient means associated with said coil to support said coil and form a cushioning medium for the same without confining the location of a nodal point in said device.

1,786,466. COIN DEPOSITORY. HARRY WALKER, Oil City, La., assignor, by mesne assignments, to Mills Novelty Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 27, 1925. Serial No. 71,815. 4 Claims. (Cl. 194—97.)



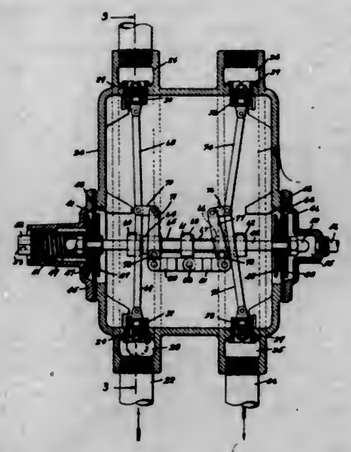
3. A fraud preventive constructed to form a coin entrance for a coin controlled mechanism comprising a casing provided with a plurality of individual coin slots for receiving coins of different denominations, coin receiving and conducting chutes carried by the casing, a coin return carried by the casing, a coin guide in association with said return, a notched bar in the casing, the notches being in alignment with the chutes, a manually operated slidably mounted plunger provided with pockets, spring means for normally aligning the pockets with the slots, and a safety device including guards cooperable with said pockets when the latter are aligned with the chutes, to prevent perforated slugs from passing through the pockets and into the chutes.

1,786,467. PROTECTIVE MEANS FOR PIPES. HARRISON B. WALTER, Chicago, Ill., assignor to Container Corporation of America, Chicago, Ill., a Corporation of Delaware. Filed Jan. 2, 1930. Serial No. 417,966. 1 Claim. (Cl. 137—91.)



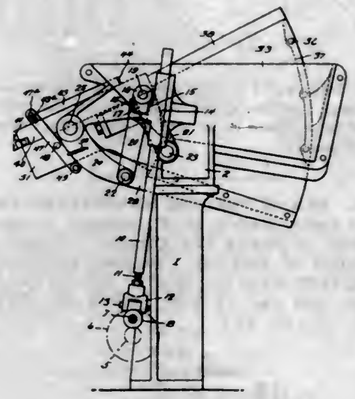
A protective device for the ends of threaded metal pipe comprising a sleeve of fibre material having a relatively soft, easily deformable inner portion and a stiff, strong outer portion, said sleeve having an internal diameter sufficient to permit it to be slipped partially over the tapered threaded end of a pipe and having sufficient body and elasticity to cause it to adhere firmly to the end of the pipe when said sleeve is forced into engagement with the threads of increased diameter, a waterproof coating for the thread contacting portion of said sleeve, said coating impregnating the material to a depth such that certain of the threads of larger diameter will pass substantially through the impregnated portion of the sleeve and will engage with a portion of lesser impregnation whereby the friction between said sleeve and pipe will be materially increased.

1,786,468. WATER SYSTEM. CLARENCE WARNER, Dayton, Ohio, assignor to Delco Light Company, Dayton, Ohio, a Corporation of Delaware. Filed Nov. 25, 1925. Serial No. 71,504. 16 Claims. (Cl. 103—6.)



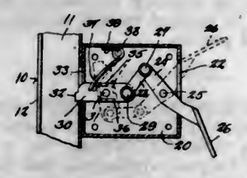
1. A water system comprising, in combination, a pump, a pressure storage tank, an air charger tank, a motor for operating the pump, a motor controller responsive directly to a certain high pressure in the system for causing the pump to stop and responsive to a certain low pressure in the system for causing the pump to operate, and means independent of said controller responsive to a high pressure for causing the charger tank to receive air and responsive to a low pressure for causing air to be trapped in the charger tank and the charger tank to be connected with the pump and storage tank.

1,786,469. NUT-FEEDING MECHANISM. JULIUS E. WILLIAMS, Willoughby, Ohio, assignor, by mesne assignments, to Republic Steel Corporation, a Corporation of New Jersey. Filed Nov. 4, 1927. Serial No. 231,118. 9 Claims. (Cl. 10—162.)



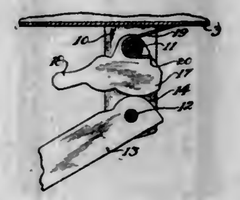
3. In a machine of the character described, the combination of a hopper having a slot in the bottom thereof, a chute extending from said hopper, a pick-up device for nuts oscillably mounted in the said slot and adapted to lift nuts from the hopper and to deliver them longitudinally of itself into said chute, a nut-reversing chute at the lower end of the former chute, and a reciprocating device arranged above the first mentioned chute and provided with a finger having an inclined surface adapted to ride over but without engaging the crowns of nuts presented upwardly in said chute and adapted to engage the sides of nuts delivered bottom side upward to said chute thereby to kick from the said chute into said hopper nuts so improperly delivered to said chute.

1,786,470. WINDOW-SASH FASTENER. HENRY WINTER, Baltimore, Md. Filed Dec. 16, 1927. Serial No. 240,505. 2 Claims. (Cl. 292—196.)



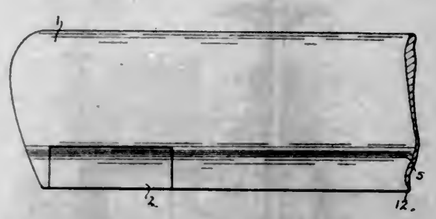
1. In a device of the class described, a support, a latch bolt fulcrumed intermediate its ends on the support, spaced lugs on the latch bolt, a spring mounted on the support and engageable with the lugs one at a time, to hold the latch bolt in advance and locked position and in retracted and unlocked position, and means for operating the latch bolt, said means comprising a lever fulcrumed intermediate its ends on the support, and a link pivotally connected with the inner end of the latch bolt and with the inner end of the lever.

1,786,471. VEHICLE SERVICE TRAY. ANDREW C. WOOD, Chicago, Ill., assignor, by mesne assignments, to Vortex Cup Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 31, 1927. Serial No. 179,819. 6 Claims. (Cl. 45—51.)



1. A vehicle service device comprising a tray, centainer holders mounted thereon, a supporting member having one end pivotally mounted on said tray, a cam formed on the pivoted end of said supporting member, a control cam pivotally mounted on said tray and coacting with said supporting member, a spring coacting with said control cam to hold the same in latching engagement with said supporting member cam, and an extension on said control cam for releasing the same to permit release of said supporting member.

1,786,472. AIRFOIL. PAUL C. YATES, Houston, Tex., assignor of one-fourth to Walter F. Woodul, Houston, Tex. Filed Nov. 2, 1928. Serial No. 316,726. 3 Claims. (Cl. 244—31.)

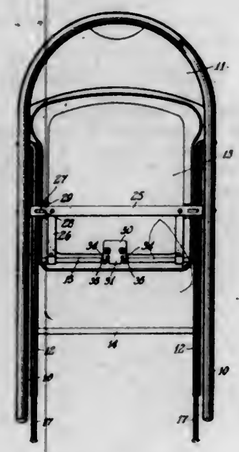


1. A thick airplane airfoil having a plurality of vacuum creating surfaces one of said surfaces including the leading edge of said airfoil and the thick portion of the wing, the other of said surfaces comprising a thin winged portion formed integral with said thick portion and adjacent the trailing edge thereof.

1,786,473. COLLAPSIBLE CHAIR. WILLIAM J. BAUER, New York, N. Y., assignor to Project Holding Corporation, New York, N. Y., a Corporation of New York. Filed May 5, 1928. Serial No. 275,333. 11 Claims. (Cl. 155—142.)

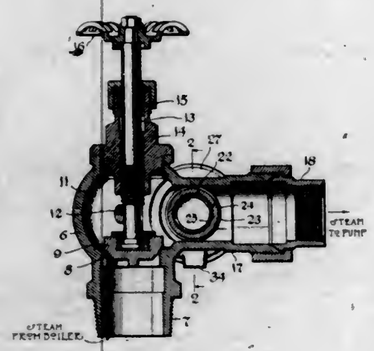
1. A collapsible chair, comprising a pair of front legs, a pair of rear legs pivotally secured at their respective upper ends to extensions of the front pair of legs and adapted to fit within the same, a seat swingably carried along its rearward portion by the rear pair of legs and movable longitudinally thereof, means slidable relatively to the re-

spective rear legs, projecting beyond their corresponding lower ends and adapted to support said seat, and a stop



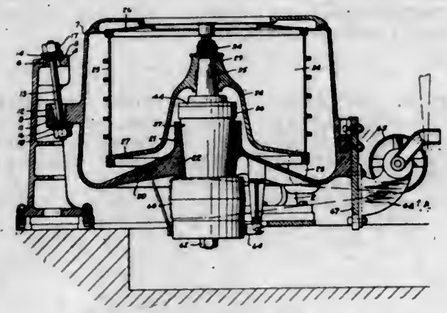
bar pivotally secured to the front pair of legs and hingedly connected with the seat supporting means, said bar affording a support for an intermediate portion of the seat.

1,786,474. PUMP-REGULATING VALVE. HENRY F. BICKEL, Plainfield, N. J., assignor to The New York Air Brake Company, a Corporation of New Jersey. Filed Aug. 15, 1928. Serial No. 299,795. 7 Claims. (Cl. 137—153.)



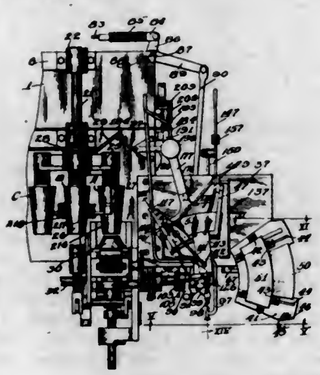
1. Means for controlling pressure motor actuated pumps which deliver normally against a back pressure, comprising in combination, a valve interposed in the path of motive fluid to said motor and having two positions, in one of which it limits the flow and in the other of which it permits free flow of the motive fluid; yielding means urging said valve to the first named position; a piston subject to said back pressure and connected to urge said valve toward the second named position; and means controlled by initial movement of the parts from the first named position toward the second named position to increase the effective area of said piston.

1,786,475. CENTRIFUGAL DRYING MACHINE. TANDY A. BRYSON, Troy, N. Y., assignor, by mesne assignments, to Tolhurst Machine Works, Inc., Troy, N. Y., a Corporation of New York. Filed Mar. 19, 1928. Serial No. 262,833. 20 Claims. (Cl. 210—63.)



5. In a multi-point flexible suspension for the casing of a centrifugal machine a link connected to the casing and suspended to oscillate in an arc whose radius exceeds the actual link length.

1,786,476. BLANK FEEDING AND GLUING DEVICE. HAROLD CARLE, Buffalo, N. Y., assignor, by mesne assignments, to Vortex Cup Company, Chicago, Ill., a Corporation of Delaware. Original application filed Oct. 18, 1926, Serial No. 142,370. Divided and this application filed Dec. 12, 1927. Serial No. 239,436. 2 Claims. (Cl. 91—47.)

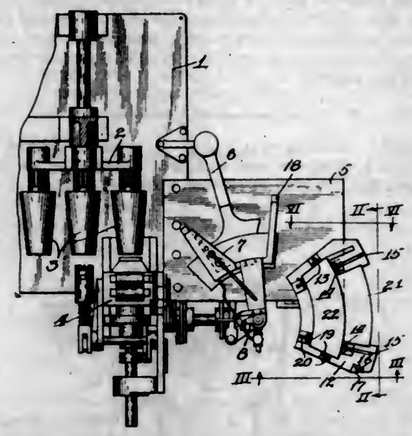


1. In an apparatus for applying adhesive to blanks, a vertically movable adhesive applying means, a laterally movable transfer arm including suction means for conveying a blank from a source of blanks and holding it in a substantially horizontal position above said adhesive applying means, means for actuating said adhesive applying means to apply adhesive to said blank, a second transfer arm movable into a position below said first mentioned arm and means for relieving the suction on said blank whereby it may be received by said second arm to be removed from said position.

1,786,477. BLANK-SEPARATING MECHANISM. HAROLD CARLE, Buffalo, N. Y., assignor, by mesne assignments, to Vortex Cup Company, Chicago, Ill., a Corporation of Delaware. Original application filed Oct. 18, 1926, Serial No. 142,370. Divided and this application filed June 25, 1928. Serial No. 288,039. 7 Claims. (Cl. 271—62.)

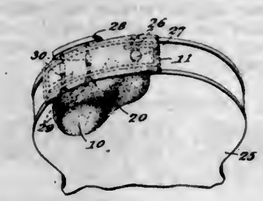
1. In a machine of the class described, the combination with a blank transfer mechanism, of a blank magazine

mechanism comprising a base section, a plate movably supported thereon, uprights secured on said base section to the outside of said plate, and to the outside of a stack of cup blanks, supported on said plate, resilient guide strips secured to the inner faces of said uprights, means for adjusting said guide strips to form a restricted passage through which the stack of cups is adapted to be



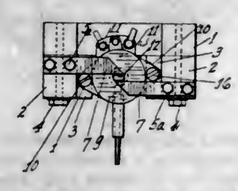
moved, resilient means for raising the plate and the stack of blanks thereon to cause the uppermost blank to be moved into engagement with said transfer means, control means for holding the blank supporting plate in a stationary position against the action of said resilient means, release mechanisms connected with said control means, and gears mechanisms for automatically operating said release mechanisms at predetermined times.

1,786,478. ATTACHMENT FOR VIOLINS. MARTIN F. CONNELL, Holliston, Mass. Filed Dec. 4, 1928. Serial No. 323,761. 3 Claims. (Cl. 84—280.)



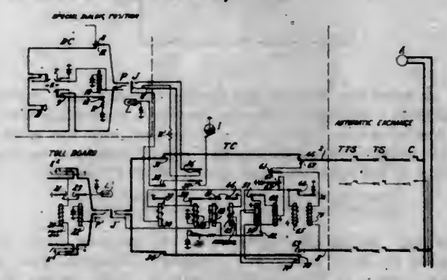
1. An attachment for a violin comprising a shoulder rest and a shield for an end face of the violin, a skeleton sheet metal frame bent to provide perpendicular portions for supporting respectively said shield and shoulder rest, and means for securing said frame to a violin.

1,786,479. LOUD-SPEAKER MOTOR. RICHARD CONOVER, Cincinnati, Ohio, assignor to The Crosley Radio Corporation, Cincinnati, Ohio, a Corporation of Ohio. Filed July 16, 1928. Serial No. 293,028. 11 Claims. (Cl. 175—339.)



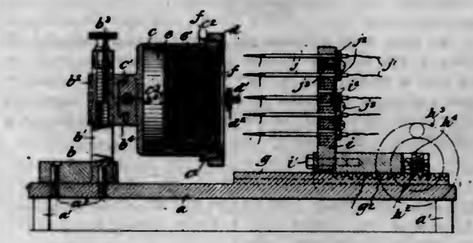
1. In a loud speaker motor, the combination of a magnet, pole spacers thereon having projections, an armature restoring spring mounted on the projections, said spring having secured thereto an armature, coils set around the armature at both sides of the restoring spring, and pole shoes mounted on the pole spacers in opposed pairs with their tips adjacent the said armature.

1,786,480. TOLL-SERVICE TRUNKING SYSTEM. THOMAS F. CROCKER, Chicago, Ill., assignor to Reserve Holding Company, Kansas City, Mo., a Corporation of Delaware. Filed Nov. 25, 1927, Serial No. 235,485, and in Great Britain Sept. 27, 1927. Renewed Apr. 9, 1930. 17 Claims. (Cl. 179—27.)



1. In a telephone system, a toll board at which incoming toll calls are received, an automatic exchange, a toll switching train comprising automatic toll switches at said exchange, a dialling operator's switchboard, a trunk extending from said toll board to said automatic exchange, a branch of said trunk line extending to said switchboard, means at said switchboard whereby the operator thereat may control the operation of said automatic toll switches over said trunk and said branch in accordance with the number of a called line as communicated to her by the toll operator at the toll board, and means at said toll board whereby the toll operator may complete the toll call over said trunk exclusive of said branch.

1,786,481. MACHINE FOR STITCHING PATTERNS ON FABRIC BASES. ALDO CURIONI, Larchmont, N. Y. Filed May 17, 1928. Serial No. 278,387. 3 Claims. (Cl. 112—79.)

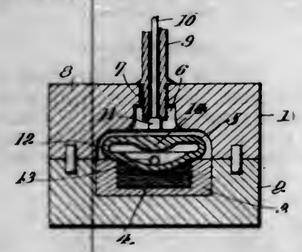


3. A machine of the character described comprising a fabric frame, a needle frame, a plurality of yarn carrying needles carried thereby, means to move one of the frames to cause the needles to penetrate the fabric, a brush on the fabric frame to hold the yarn after a needle has penetrated the fabric, means to maintain the bristles of the brush compressed, and means to move one frame relatively to the other in a plane parallel thereto.

1,786,482. RECRYSTALLIZED REFRACTORY COMPOSITION. THOMAS STANLEY CURTIS, Huntington Park, Calif., assignor to Vitrefrax Corporation, Huntington Park, Calif. Filed June 26, 1928. Serial No. 288,533. 2 Claims. (Cl. 106—9.)

1. A refractory composition of the class described, consisting of a mullite aggregate incorporated into a bonding matrix of mullite in amorphous form.

1,786,483. APPARATUS FOR MAKING COMPOSITION RUBBER FLOAT VALVES. EDWARD L. DELANY, Brooklyn, N. Y. Filed Apr. 11, 1927. Serial No. 182,916. 10 Claims. (Cl. 18—35.)



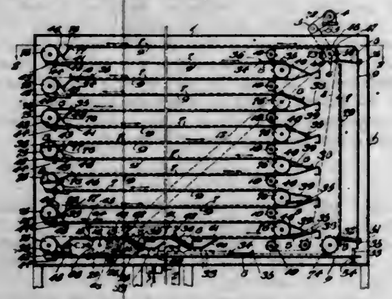
1. A mold for making composition rubber float valves comprising sections, one section having a removable member having a threaded portion extending into the cavity of the mold, and a rectangular member carried by the member at its lower end and independently movable.

1,786,484. REAMER. OSWALD DUDA, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a Corporation of Texas. Filed Apr. 2, 1927. Serial No. 180,577. 6 Claims. (Cl. 255—75.)



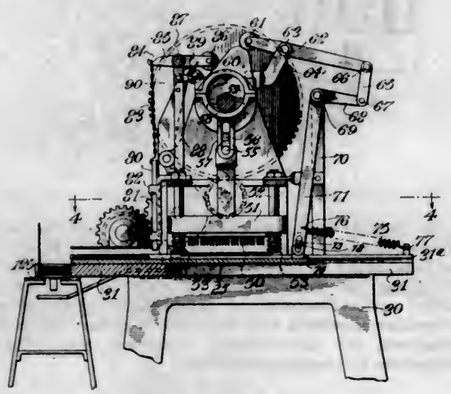
1. In deep well drilling apparatus, a head having pin guides, a pin slidable in said guides, a cutter carried by said pin, a cross-head carried by said pin, and a spring-pressed plunger mounted in said head, said plunger engaging said crosshead, to releasably lock the same in a predetermined position.

1,786,485. BAKING APPARATUS. WILLIAM EHRHART, Lancaster, Pa. Filed Aug. 1, 1928. Serial No. 296,675. 15 Claims. (Cl. 198—158.)



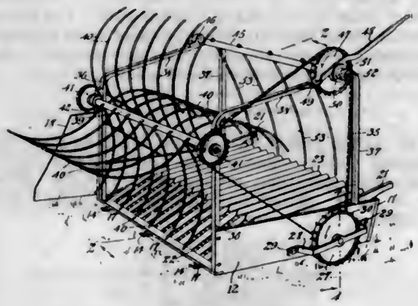
1. Apparatus of the character stated comprising a compartment, an endless conveyor operative for travel in a circuitous path through said compartment, a series of trays each pivotally mounted at one end to said conveyor and free at the other end, a track for guiding the free ends of said trays, means upon said track over which the free end of a tray may pass at proper intervals to maintain trays with loaded boards in constant horizontal position, means for feeding a board filled with dough to be proofed into the path of travel of a moving tray, means in the path of travel of said tray for supporting said board pending arrival of an empty tray, and means for causing an approaching empty tray to lift a board from off said temporary support.

1,786,486. MATCH MACHINE. SAMUEL M. FRIEDE and FRANK J. MCGUIRE, Sarasota, Fla. Filed May 19, 1928. Serial No. 278,972. 9 Claims. (Cl. 144—52.)



1. A machine for manufacturing matches comprising a carrier, means for feeding veneers onto the carrier, means for cutting the veneers on the carrier into matches, and means for operating the carrier, said carrier remaining stationary during the feeding and cutting of the veneers and being moved after the cutting to carry the matches out of the machine.

1,786,487. MOWER ATTACHMENT. RITCHARD W. GEORGE, Kelso, Tenn. Filed Aug. 10, 1928. Serial No. 298,719. 6 Claims. (Cl. 56—207.)

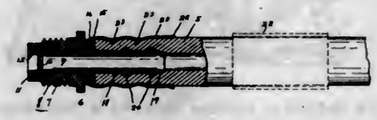


1. An attachment for mowing machines including a removable seed receptacle, a rearwardly extending riddle, means for pushing the harvested crop upon said riddle, and separate means for causing the discharge of said crop rearwardly from said riddle.

1,786,488. PROCESS FOR THE MANUFACTURE FROM BLOOD OF A MASS CAPABLE OF BEING COLORED. FELIX HOMBERG, Barmen, Germany, assignor to American Nuplax Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 9, 1925, Serial No. 74,399, and in Germany Dec. 11, 1924. 10 Claims. (Cl. 18—47.5.)

4. A process for the manufacture of moulded objects from dry blood comprising intimately mixing dry blood and an insoluble inorganic filling material adapted to render the object permeable after moulding, moulding the powdered mixture into a solid object by the application of heat and pressure, subsequently bleaching said moulded object, and treating the bleached object with a coloring agent.

1,786,489. HOSE COUPLING. ARTHUR T. HOPKINS, Detroit, Mich., assignor of one-half to R. C. Hupp, Birmingham, Mich. Filed Mar. 28, 1925. Serial No. 19,091. 4 Claims. (Cl. 285—84.)



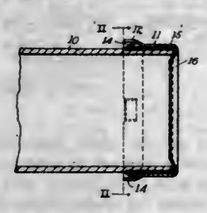
1. In combination with a hose end, a coupling member having an enlarged threaded body portion provided with a coaxial reduced, peripherally ribbed extension entering the hose end, and a nut like portion between said threaded portion and said extension, a groove forming shoulder upon the body portion concentric with and adjacent to said extension and spaced from said nut like portion, and a sheet metal cylindrical sleeve surrounding said hose end and extension, said sleeve being internally ribbed in staggered relation longitudinally with the ribs of the said extension, and having one end turned inwardly into the groove between said nut like portion and said shoulder for interlocking engagement with said coupling member.

1,786,490. STABLE ALKALINE FERRIC SOLUTION. WILBERT J. HUFF, DAVID L. JACOBSON, and WILLIAM H. HILL, Pittsburgh, Pa., assignors to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 17, 1924. Serial No. 726,457. 19 Claims. (Cl. 23—234.)

1. The process for forming stable iron alkaline solutions which comprises: treating a carbohydrate with a soluble alkali metal compound having an alkaline reaction so as to effect a molecular transformation of the oxygen content of the carbohydrate, and adding to the so treated carbohydrate a soluble iron salt.

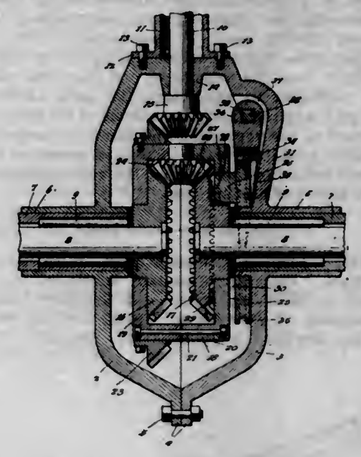
2. The process for forming stable iron alkaline solutions which comprises: treating a carbohydrate with a soluble alkali metal compound having an alkaline reaction; adding to the so treated carbohydrate a soluble iron salt; and aerating the solution during the addition of the iron to the solution.

1,786,491. PIPE-THREAD PROTECTOR. PERCY E. HUNTER, Pittsburgh, Pa. Filed Aug. 16, 1928. Serial No. 299,893. 9 Claims. (Cl. 137—91.)



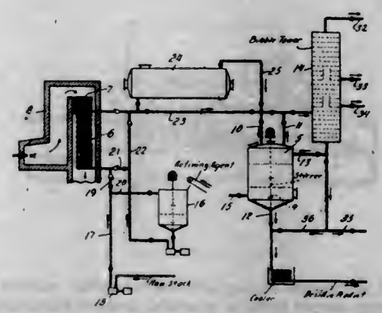
1. A thread protector comprising a collar formed to fit over the threaded portion of a pipe, and being slit to provide a tongue upon its inner end that is capable of being bent inwardly, and a key member adapted to have locking engagement with the pipe thread and to be positioned in abutting engagement with the bent-in tongue.

1,786,492. DIFFERENTIAL CLUTCH. JACOB T. HUSTVET, Lampson, Wis. Filed Dec. 19, 1929. Serial No. 415,274. 3 Claims. (Cl. 74—100.)



1. In a differential, a housing, a gear casing rotatable in said housing, shafts rotatably mounted in opposed side walls of said housing and extending into said casing, gears fixed upon said shafts within said casing, a pinion rotatably mounted in said casing and meshing with said gears, a clutch rotatably mounted in said housing and having arms extending through an adjacent side wall of said casing to effect rotation of the clutch with the casing, the said arms each having teeth at its free end disposed radially of the gears and the outer side face of the adjacent gear being formed with clutch teeth extending radially thereof throughout its circumference, and means to move said clutch towards said casing for interlocking engagement with the clutch teeth of said gear and cause the two shafts to rotate in unison.

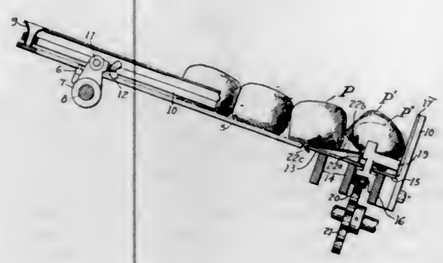
1,786,493. ART OF REFINING HYDROCARBONS. EDWARD W. ISOM, Scarsdale, N. Y., and ERNEST B. PHILLIPS, East Chicago, Ind., assignors to Sinclair Refining Company, New York, N. Y., a Corporation of Maine. Filed Mar. 27, 1929. Serial No. 350,152. 3 Claims. (Cl. 196—79.)



1. In the manufacture of refined viscous petroleum oils, an improved combined operation which comprises sus-

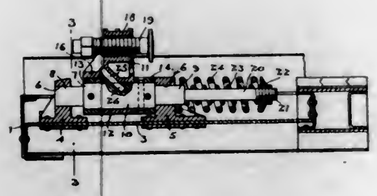
pending a solid absorbent refining agent in the raw stock, passing this absorbent-stock mixture through a heating zone as a rapidly flowing stream and heating it therein to a temperature not substantially exceeding 750° F. and less than that at which any substantial cracking takes place within the period of time the absorbent-stock mixture is flowing through the heating zone, discharging the absorbent stock mixture from the heating zone into a vaporizing and digesting zone, taking off vapors from the vaporizing and digesting zone, maintaining a substantial body of liquid at a temperature of approximately 620° F. in the vaporizing and digesting zone, maintaining the solid absorbent refining agent in suspension in this body of liquid during the operation, discharging the refined viscous oil product from the vaporizing and digesting zone as a residue including in suspension the solid absorbent refining agent, and regulating the volume of the body of liquid maintained in the vaporizing and digesting zone such that the residue product remains therein a period of time not less than five times as long as the raw absorbent stock mixture is in the heating zone.

1,786,494. ARTICLE FEED FOR WRAPPING MACHINES. CHARLES KEHLING, Brooklyn, N. Y., assignor to American Machine & Foundry Company, a Corporation of New Jersey. Filed Oct. 29, 1929. Serial No. 403,237. 8 Claims. (Cl. 198—26.)



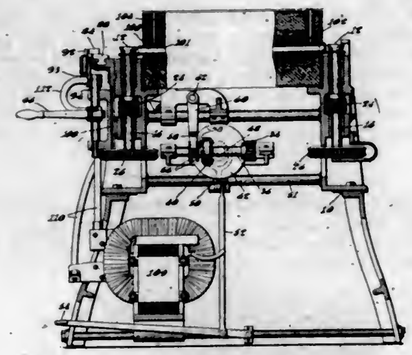
1. In an article feed, the combination with a runway for supplying articles in contacting row formation, of a conveyor arranged to successively withdraw articles transversely from said row, and means for relatively tilting the article next to be withdrawn and the adjacent article in the row to reduce the friction between said articles.

1,786,495. ADJUSTABLE SPRING JACK FOR CONTAINER RAILWAY CARS. WILLIAM PLATTS KELLETT, New York, N. Y. Filed Sept. 14, 1929. Serial No. 392,553. 6 Claims. (Cl. 105—366.)



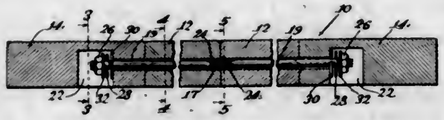
1. An adjustable spring jack for container railway cars, comprising spaced bracket supports, a shaft longitudinally slidable in said supports, a compression spring encircling said shaft, and a buffer member mounted on said slidable shaft.

1,786,496. METHOD OF FORMING MATERIAL. CUTLER D. KNOWLTON, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 8, 1921, Serial No. 459,783. Renewed July 22, 1927. 16 Claims. (Cl. 153—16.)



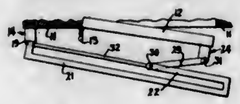
1. The method of forming material in accordance with a pattern, which consists in heating the material, thereafter supporting the pattern solely upon the heated material, feeding the heated material, and forming the material to the supported pattern.

1,786,497. TABLE CONSTRUCTION. GEORGE W. KRICK and DANIEL G. ANDERSON, Los Angeles, Calif. Filed Jan. 11, 1930. Serial No. 420,103. 1 Claim. (Cl. 20—92.)



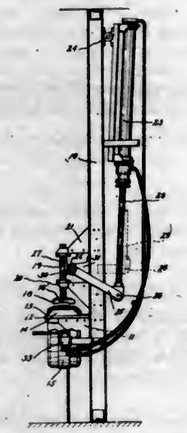
A table top comprising a plurality of strips, a rod extending through apertures in alignment in said strips, said rod having a swaged portion resting in recesses formed in the abutting faces of the innermost pair of said strips, said rod having threaded ends projecting into recesses formed in the underside of the outermost pair of said strips, a plate mounted on each end of said rod and engaging the inner vertical face of the recesses formed in the outermost pair of said strips, a spring lock washer mounted on each end of said rod engaging said plates, and nuts on the threaded ends of said rod engaging said spring lock washers.

1,786,498. DRAPERY SUPPORT. FRANK V. MARONEY, Orange, Calif. Filed Dec. 17, 1928. Serial No. 326,500. 4 Claims. (Cl. 156—19.)



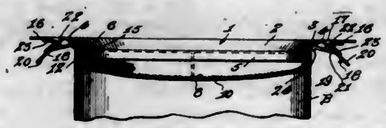
1. In a device of the class described, a bracket, a drapery rod pivotally secured to said bracket, said drapery rod having an arm rigid thereon and extending parallel thereto and means for maintaining the rod in proper position, said means being pivotally connected to said arm and being adapted to be secured to a window.

1,786,499. PRESS FOR TREAD SPLICES. CHARLES EDGAR MAYNARD, Northampton, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Apr. 17, 1929. Serial No. 355,779. 2 Claims. (Cl. 154—9.)



1. An apparatus of the character described comprising a pair of tread pressing plates adapted to press a narrow portion of a tire between them, a rack fixed to one of said plates, a gear meshing with the rack, and means for causing the rotation of the gear thereby moving the rack-bearing plate toward and away from the other plate.

1,786,500. SANITARY MILK STRAINER. MARY M. MCGONIGAL, Gannett, Idaho. Filed Oct. 14, 1929. Serial No. 399,604. 3 Claims. (Cl. 210—159.)

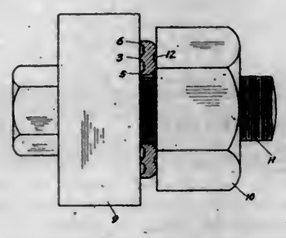


1. A strainer of the class described comprising a rim for disposal in the open top of a receptacle for the liquid to be strained having an outstanding circumferential flange to rest upon the upper margin of the wall of the receptacle, and a circumferential portion inclined downwardly and inwardly from said flange and provided with a depending flange having bayonet slots therein, a dished screen of fine mesh, a ring about the outer side of which the upper margin of the screen is fitted, and studs upon the inner side of the ring engaged in said slots to separably connect the ring with the flange of the rim.

1,786,501. WATER SOFTENING AND PURIFICATION. ARTHUR ROMAYNE MOBERG, Minneapolis, Minn., assignor to Fred O. Paige, Jr., Hammond, Ind. Filed Apr. 15, 1929. Serial No. 355,431. 9 Claims. (Cl. 210—23.)

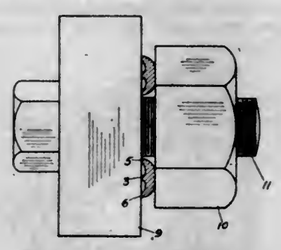
1. The method of purifying aqueous liquids to remove suspended impurities therefrom, which consists in subjecting the liquid to the action of a concentrated solution of ferric chloride containing peptized aluminum hydrates.

1,786,502. SPRING NUT-LOCK WASHER. HARRY G. NORWOOD, Baltimore, Md., assignor to Positive Lock Washer Company, Newark, N. J. Filed Aug. 10, 1929. Serial No. 384,857. 7 Claims. (Cl. 151—35.)



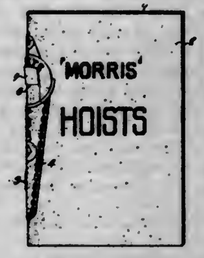
4. A spring nut lock washer having a pair of grooves on one face thereof and an abutment between said grooves, said abutment having a depth so as to come into engagement before the edges formed by the grooves.

1,786,503. SPRING NUT-LOCK WASHER. HARRY G. NORWOOD, Baltimore, Md., assignor to Positive Lock Washer Company, Newark, N. J. Filed Aug. 10, 1929. Serial No. 384,858. 7 Claims. (Cl. 151—35.)



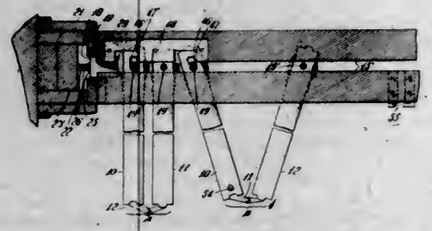
4. A spring nut lock washer having a split and the ends adjacent the split offset a predetermined amount in opposite directions to give a certain spring effect, said washer having a cross-sectional shape such that the inner and outer edges normally contact with the work and are adapted to spread, whereby an annular central part between the edges is brought into engagement with the work to resist further spreading of said edges.

1,786,504. BOOKLET LABEL. DONALD EVANS PARRISH, Buffalo, N. Y. Filed Feb. 1, 1929. Serial No. 336,693. 4 Claims. (Cl. 281—29.)



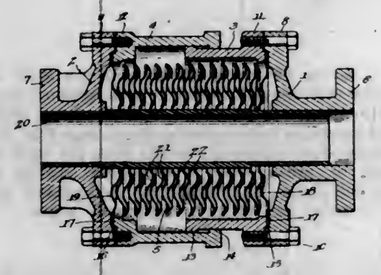
1. A label for booklet covers secured only to the booklet back and of a width greater than the thickness of the booklet and freely extending from the back over portion of the outside of the booklet covers.

1,786,505. FOLDING PARTITION. ELLIS J. G. PHILLIPS, Aurora, Ill., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill., a Corporation of Illinois. Filed Oct. 12, 1928. Serial No. 311,990. 18 Claims. (Cl. 20—20.)



18. The combination with a doorway having upper and lower guideways, of a series of folding partition sections movable along said guideways, locking means adapted to hold said partition sections in open position, and spring pressed jambs disposed at each side of said doorway resiliently engaging said partition sections when in either closed or open positions, said spring pressed jambs cooperating to urge said partition sections against said locking means when said partition sections are folded to open position.

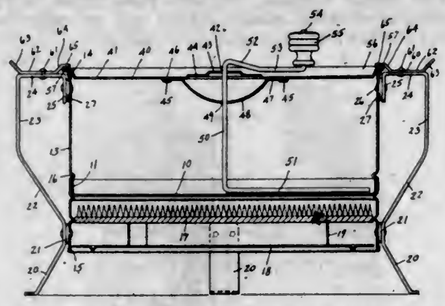
1,786,506. EXPANSION JOINT. FREDERICK RAY, Short Hills, N. J. Filed Dec. 31, 1923. Serial No. 683,789. 12 Claims. (Cl. 285—90.)



1. In an expansion joint, the combination of means for attaching the joint to a pipe line, said means comprising two relatively movable parts, an expansion member, and means for fastening the expansion member removably to said parts, said means including two members movable to and from each other in overlapping relations and formed at their inner ends with opposed stop lugs adapted to engage each other and limit the relative outward movement of the members, said members being detachably fastened to said relatively movable parts with the outer ends of the expansion member clamped therebetween.

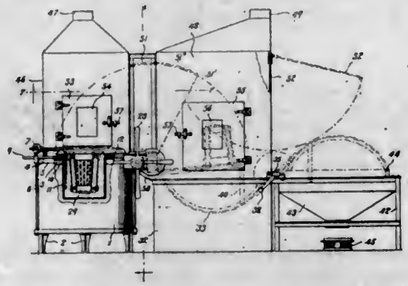
1,786,507. CORN POPPER. JAMES H. REICHART, Muncie, Ind. Filed Mar. 30, 1929. Serial No. 351,186. 6 Claims. (Cl. 53—4.)

1. The combination with a chamber and a cover therefor, of a handle comprsiing a strap having an end secured to the chamber adjacent the cover support and extending upwardly to the plane of the cover, an outward extension handle forming portion secured thereto and arranged for



chamber support, and a cover lock pivotally supported by the outward extension immediately adjacent the chamber and cover connection.

1,786,508. APPARATUS FOR AND ART OF TREATMENT OF METAL WORK. HEYMAN ROSENBERG, New York, N. Y. Filed June 20, 1929. Serial No. 372,457. 21 Claims. (Cl. 266—4.)

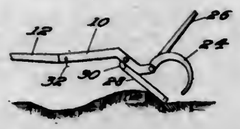


1. In apparatus for case-hardening metal work, the combination, with a furnace and a vat located to be heated thereby, of a work carrier, a quenching vat disposed adjacent the work carrier, and means for shifting the work carrier from within the first-mentioned vat to a position above the quenching vat for delivering the work to the quenching vat at substantially the temperature of the contents of the first-mentioned vat.

1,786,509. GAS PURIFICATION. GILBERT E. SEIL, Newark, N. J., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 11, 1926. Serial No. 115,408. 35 Claims. (Cl. 23—225.)

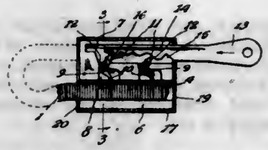
26. In the purification of gas of hydrogen sulphide the improvement which consists in washing the gas with an alkaline wash liquor containing iron sulphide and an oxidized starch to maintain the iron sulphide in stable solution.

1,786,510. COMBINATION HARROW AND SCRAPER. HERBERT A. SWENSSON, Rose Creek, Minn. Filed Mar. 27, 1929. Serial No. 350,318. 1 Claim. (Cl. 55—23.)



In a combination harrow and scraper, a main frame, and means pivotally connected to the frame for alternately harrowing and scraping the ground as desired, said harrowing means comprising a harrow frame, a plurality of harrow blades mounted on the harrow frame and an operating handle therefor, and a scraper element also pivotally mounted upon the frame, and means for positioning the scraper element operatively or inoperatively with respect to the ground, said means including a latch mounted upon the harrow frame, said scraper frame also including means for holding the harrow blades in inoperative position when the scraper element is in operative position, said means comprising a right-angled pivotal connection between the harrow frame and the scraper element, and an offset in the frame for conducting the scraper and holding the harrow blades raised in inoperative position when the scraper is in operative position.

1,786,511. LOCK. JULIAN K. WARREN, Saucier, Miss. Filed Aug. 14, 1929. Serial No. 385,729. 2 Claims. (Cl. 70—108.)



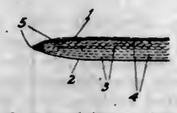
1. A lock comprising a lock body having a longitudinal key-way and a passage parallel with the keyway, a hasp having one end anchored in the body and its opposite end engageable in said passage in the body and including a series of closely nested disks, bell cranks mounted within the body and alined longitudinally thereof between the keyway and said passage and each having one end presented to the hasp to engage between the disks thereof and the opposite end disposed within the keyway in the body, and yieldable means for holding the bell cranks in engagement with the hasp.

1,786,512. AUTOMATIC SHADE-ROLLER STOP. BEVILL W. WHITWORTH, Omaha, Nebr. Filed May 28, 1929. Serial No. 366,712. 1 Claim. (Cl. 156—86.)



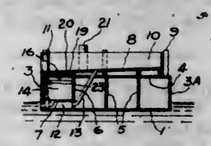
A spring actuated shade roller having a bore at one end and longitudinal slots opening into the bore, means for limiting the rotation of said roller in its winding direction, said means comprising a stationary shaft extending axially into the bore in the roller in which the stationary shaft is disposed, said shaft having right and left threaded portions, members slidably mounted in the bore and threaded on said threaded portions of the shaft, lugs carried by opposite sides of the slidable members and extending into the longitudinal slots in the roller end and into which the lugs extend and a coiled spring surrounding the shaft between the slidable members and axially movable on the shaft.

1,786,513. SPONGE PAD. ROSCOE C. ZUCKERMAN, Stockton, Calif. Filed Dec. 15, 1928. Serial No. 326,373. 8 Claims. (Cl. 87—23.)



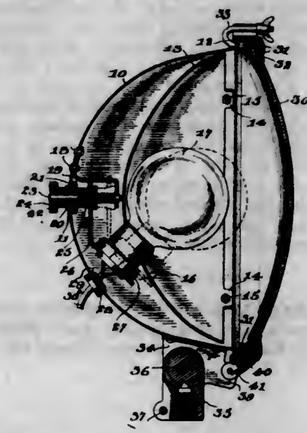
1. A sponge pad comprising a top sheet impregnated with an antiseptic soap, and a pliable water absorbing pad under said sheet.

1,786,514. SCOW. WILLIAM ALBERT BICKNELL, Vancouver, British Columbia, Canada. Filed Mar. 8, 1929. Serial No. 345,519. 3 Claims. (Cl. 114—27.)



1. A self dumping scow comprising a decked hull, a water tight compartment along one side thereof and located above the no-load water line of the hull, a plurality of sea cocks controlled from the deck of the scow, said compartment having air outlet passages communicating with the atmosphere, normally closed hatches located at the opposite ends of the compartment, through which the air is allowed to escape when uncovered, one of said hatches providing for a rapid inflow of water into the compartment when the scow is initially tilted to a predetermined position, and thereby quickly tilt the scow to an angle in excess of the normal angle of repose of the load, and means for automatically discharging the water from the compartment on dumping of the load.

1,786,515. FLOOD LIGHT. JAMES L. BROWNELL, Kalamazoo, Mich. Filed Dec. 18, 1928. Serial No. 326,729. 5 Claims. (Cl. 240—44.2.)



1. In a floodlight, a semi-circular shell having a central aperture, a bracket secured to said shell and having a horizontal portion, a lateral bearing portion at the outer end of said bracket, a socket supporting bracket guided by said horizontal portion, a spaced reflector having an aperture below its center, a socket on said socket supporting bracket projecting through the aperture in said reflector, a source of light in said socket having its center line coincident with the center line of the shell and reflector, and means in part supported by said shell and in part by said bracket bearing portion for moving said socket supporting bracket, socket, and source of light along said line of centers.

1,786,516. PROCESS FOR THE CONTINUOUS PRODUCTION OF FUSED CAUSTIC ALKALIES. ERNST BÜRGIN and WALTER SCHMID, Rheinfelden, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Feb. 21, 1929, Serial No. 341,823, and in Germany Feb. 29, 1928. 6 Claims. (Cl. 23—184.)

1. The process for the continuous production of fused caustic alkalies from concentrated caustic alkali lyes

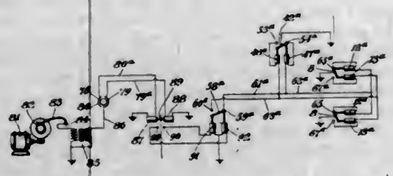
which comprises introducing same into a rotating inclined metallic tube which is externally heated, evaporating the lye therein, subjecting the resulting melt to a temperature sufficient to dehydrate the melt to the desired alkali content, and gathering the melt issuing from the tube.

1,786,517. SEWING MACHINE RUFFLER. ANDREW J. CARMICHAEL, New Haven, Conn., assignor to The Greist Manufacturing Company, a Corporation of Connecticut. Filed July 15, 1929. Serial No. 378,480. 2 Claims. (Cl. 112—135.)



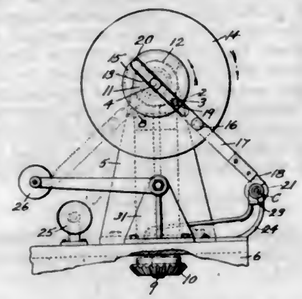
1. In a sewing machine ruffler, the combination with a suitable frame, of a ruffling blade, an operating lever pivoted to said frame and operatively connected to said blade, a pawl-carrier mounted on said lever and provided with a pawl, a ratchet-wheel to be engaged at times by said pawl and having deep and shallow notches, and a plate by which said ratchet-wheel is carried and which plate is adjustably mounted on said frame by a pivot located eccentric to said ratchet-wheel and below and rearward of the pivotal point of said operating lever; whereby, when said ratchet-wheel is in raised position to be engaged by said pawl the latter will act to hold or lock said plate in its adjusted position.

1,786,518. MEANS FOR LIGHTING MOTOR VEHICLES. KARL D. CHAMBERS, Montgomery, Ala. Filed July 1, 1924, Serial No. 723,539. Renewed Sept. 14, 1929. 6 Claims. (Cl. 88—1.)



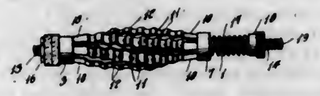
1. Means for lighting motor vehicles comprising complementary viewing filters, headlights having complementary projecting filters corresponding to said complementary viewing filters, and automatic means for putting one of said viewing filters into operative relation with the driver's eyes, and for causing light to be projected through the corresponding projecting filter according to the direction of travel of the vehicle.

1,786,519. CUT-OFF FOR CIGARETTE MACHINES. ROBERT JOHN ALEXANDER CHANDLER, London, England, assignor to American Machine & Foundry Company, a Corporation of New Jersey. Filed Sept. 18, 1929. Serial No. 393,463. 12 Claims. (Cl. 131—37.)



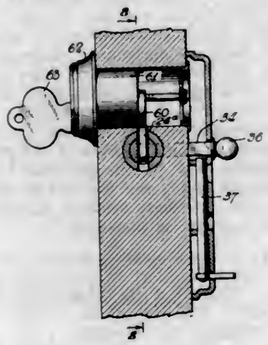
1. In a cigarette rod cutoff mechanism, the combination with a cigarette rod cutting element, of spaced pivots on which said cutting element is mounted, and means for imparting differential orbital movements to said pivots to produce rapid movement of said element across the path of the cigarette rod.

1,786,520. GUN CLEANER. LOUIS H. DARLING, Vallejo, Calif. Filed Apr. 11, 1929. Serial No. 354,361. 7 Claims. (Cl. 42—91.)



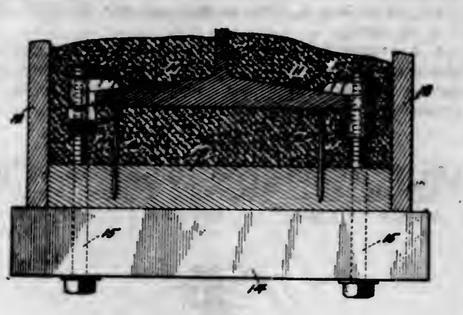
1. A gun cleaner comprising a stem, cleaner elements arranged lengthwise of the stem and grouped about the same, said cleaner elements being outwardly curved intermediate their ends, and confining means on the stem engaging opposite ends of the cleaner elements, one of said means being resilient and adjustable to admit of regulating the bulge of the cleaner elements.

1,786,521. LATCH. MICHAEL DERMODY, New York, N. Y. Filed Nov. 6, 1928. Serial No. 317,530. 3 Claims. (Cl. 70—46.)



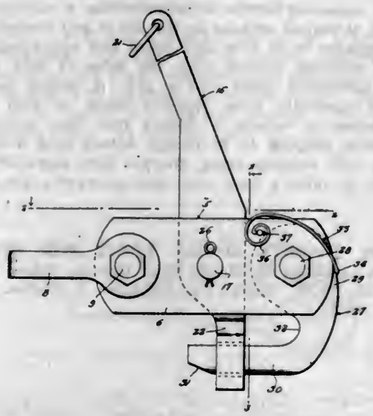
1. In a latch an escutcheon plate, a sliding bolt, a laterally projecting actuating arm fixed to the inner end of the bolt and a sliding dog movable into the path of the arm to selectively dog the movement of the bolt to projected or retracted position, the slidable dog being normally gravitationally held out of dogging position and means integral with the escutcheon plate to support it in dogging position.

1,786,522. FORM SUPPORT. FRANK G. DICKMAN, Chicago, Ill. Filed Dec. 10, 1928. Serial No. 325,091. 2 Claims. (Cl. 25—131.5.)



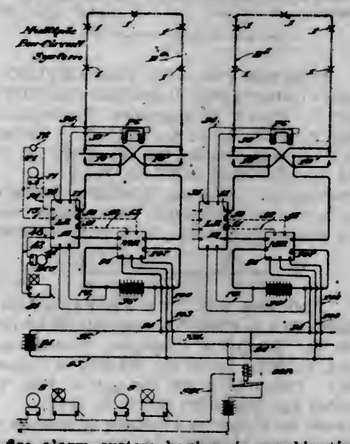
1. A form support and insert comprising, in combination, a threaded body having a supporting projection adapted to rest on the flange of a beam, means on said body permitting rotation in one direction and preventing rotation in the opposite direction relative to an adjacent beam flange, and a bolt adapted to project through the bottom board of a form and engage said threaded body, said bolt being adapted to be removed to drop the form after the concrete is poured the threaded body remaining in the concrete and acting as an insert for the support of conduits or of a ceiling.

1,786,523. TRIP HOOK. GEORGE J. DOERING, Evanston, Ill. Filed Mar. 19, 1929. Serial No. 348,347. 3 Claims. (Cl. 294—83.)



1. In a trip hook of the character described comprising a body portion formed of a pair of complementary spaced plates, a clevis rockably mounted on one end of said plates, a tripping lever rockably mounted intermediate its ends between an intermediate portion of said plates, said tripping lever having an opening formed in one free end and an attaching ring on the other free end thereof, a hook member having one end rockably mounted between the other end of said plates, the free end of said hook member adapted for detachably seating in the opening in the tripping lever for detachably coupling the hook member and the tripping lever, and means for automatically retaining said tripping lever and hook member in coupled relation.

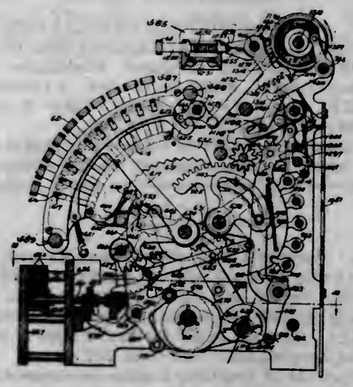
1,786,524. FIRE-ALARM SYSTEM. VERNON DUNBIN, Newton, Mass., assignor to The Holtzer-Cabot Electric Company, Roxbury, Mass., a Corporation of Massachusetts. Filed June 23, 1922, Serial No. 570,393. Renewed May 19, 1928. 12 Claims. (Cl. 177—361.)



6. A fire alarm system having, in combination, a plurality of normally closed box circuits, a plurality of boxes in each box circuit, each box having provision for rendering it inoperative to send signals on reversal of the box circuit current, means for reversing the current after opening of the circuit, a non-interference relay in each box circuit adapted to be actuated on the pulling of a box in the circuit, a circuit opening relay for each box circuit, non-interference lines connecting the circuit opening relays for opening all other box circuits and causing reversal of the box circuit current, and means for energizing the non-interference lines upon actuation of any non-interference relay.

12. A fire alarm system having, in combination, a plurality of normally closed box circuits, repeating means for the box circuits operated upon opening of a box circuit, short circuiting contacts for short circuiting the loop containing the boxes of each box circuit, a trouble relay operable upon opening of a box circuit, and having a part movable to close the short circuiting contacts of an open box circuit after a predetermined time, and means for resetting said part upon closure of the box circuit.

1,786,525. COMPUTING MACHINE. MAXIMILIAN M. GOLDBERG, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Filed June 14, 1926. Serial No. 115,998. 181 Claims. (Cl. 235—7.)



1. In an accounting machine, the combination of a plurality of banks of depressible keys, a differentially movable

latch cooperating with each of said banks of keys, means for disconnecting each of said differential latches in its zero position, an additional bank of keys, and means adapted to be differentially positioned under control of said last mentioned keys for controlling said disconnecting means.

1,786,526. PROCESS FOR THE PREPARATION OF 4-HALOGEN-PARA-PHENYL-ORTHO-BENZOYL-BENZOIC ACID. PHILIP H. GROGGINS, Washington, D. C. Filed Aug. 8, 1929. Serial No. 384,506. 8 Claims. (Cl. 260—64.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)

1. A process for preparing 4-halogen derivatives of para-phenyl-ortho-benzoyl-benzoic acid which comprises condensing 4-halogen-diphenyl with phthalic anhydride.

1,786,527. PROCESS FOR THE PREPARATION OF 2-HALOGEN-PARA-PHENYL-ORTHO-BENZOYL-BENZOIC ACID. PHILIP H. GROGGINS, Washington, D. C. Filed Aug. 8, 1929. Serial No. 384,507. 8 Claims. (Cl. 260—64.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)

1. A process for preparing 2-halogen derivatives of para-phenyl-ortho-benzoyl-benzoic acid which comprises condensing 2-halogen-diphenyl with phthalic anhydride.

1,786,528. PROCESS OF PREPARING 4-AMINO-PARA-PHENYL-ORTHO-BENZOYL-BENZOIC ACID. PHILIP H. GROGGINS, Washington, D. C. Filed Aug. 8, 1929. Serial No. 384,510. 4 Claims. (Cl. 260—64.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)

2. The process of preparing 4-amino-para-phenyl-ortho-benzoyl-benzoic acid which comprises heating 4-halogen-para-phenyl-ortho-benzoyl-benzoic acid with aqueous ammonia under pressure in the presence of a copper catalyst.

1,786,529. PROCESS FOR THE PREPARATION OF 2-AMINO-PARA-PHENYL-ORTHO-BENZOYL-BENZOIC ACID. PHILIP H. GROGGINS, Washington, D. C. Filed Aug. 8, 1929. Serial No. 384,511. 4 Claims. (Cl. 260—64.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)

2. The process of preparing 2-amino-para-phenyl-ortho-benzoyl-benzoic acid, which comprises heating 2-halogen-para-phenyl-ortho-benzoyl-benzoic acid with aqueous ammonia under pressure in the presence of a copper catalyst.

1,786,530. PROCESS FOR THE PREPARATION OF 4-AMINO-BETA-PHENYL-ANTHRAQUINONE BY AMINATION. PHILIP H. GROGGINS, Washington, D. C. Filed Aug. 8, 1929. Serial No. 384,516. 5 Claims. (Cl. 260—57.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)

1. The process of preparing 4-amino-beta-phenyl-anthraquinone, which comprises heating 4-halogen-beta-phenyl-anthraquinone with aqueous ammonia under pressure.

1,786,531. PROCESS FOR THE PREPARATION OF 2-AMINO-BETA-PHENYL-ANTHRAQUINONE BY AMINATION. PHILIP H. GROGGINS, Washington, D. C. Filed Aug. 8, 1929. Serial No. 384,518. 5 Claims. (Cl. 260—57.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)

1. The process of preparing 2-amino-beta-phenyl-anthraquinone which comprises heating 2-halogen-beta-phenyl-anthraquinone with aqueous ammonia under pressure.

1,786,532. PREPARATION OF PARA-PHENOXY-ORTHO-BENZOYL-BENZOIC ACID. PHILIP H. GROGGINS, Washington, D. C. Filed Oct. 2, 1929. Serial No. 396,924. 7 Claims. (Cl. 260—64.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)

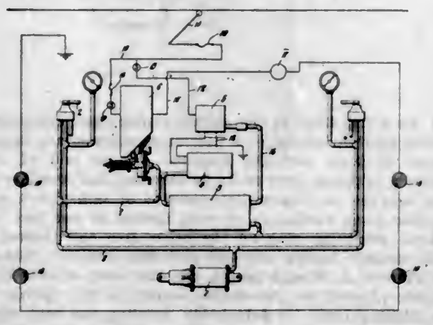
1. A process for preparing the aluminum base of para-phenoxy-ortho-benzoyl-benzoic acid which comprises condensing diphenyl oxide with phthalic anhydride in the presence of aluminum chloride.

1,786,533. CLOTHES PROP. HARRY B. GRINER, Merchantville, N. J. Filed Sept. 6, 1929. Serial No. 390,678. 1 Claim. (Cl. 68—12.)



As an improved article of manufacture, a clothes prop having a V-shaped opening in the upper end thereof, and an attachment to fit over said upper end and comprising pendent portions secured over the sides of said upper end, a horizontal plate and a pair of spring tongues extended upwardly from opposite edges of said plate and adapted to receive a clothes line, said horizontal plate being adapted to fit snugly within said V-shaped opening, said tongues being directed first upwardly and inwardly to form a neck and then outwardly flared.

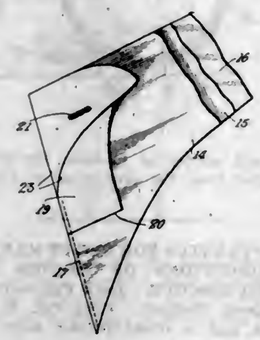
1,786,534. SAFETY SIGNAL LIGHT FOR STREET CARS. ASHLEY G. HALE, West Groton, Mass. Filed Oct. 30, 1929. Serial No. 403,628. 2 Claims. (Cl. 246—208.)



1. A signal apparatus for electric railway cars comprising, in combination with the air brake cylinder,

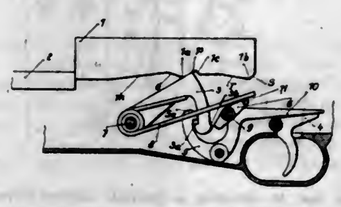
of the car and the hand lever for controlling the supply of air to the brake cylinder, an electric light signal, and a source of current supply in circuit therewith, and a pressure regulator in communication with the said air brake cylinder and embodying the usual switch in circuit with the signal and controlled by the pressure of air delivered to the brake cylinder, whereby to effect closing of the circuit through the signal upon operation of the hand lever to effect admission of air to the air brake cylinder.

1,786,535. SOFT COLLAR. JOSEPH HILLMAN, New York, N. Y. Filed Mar. 7, 1930. Serial No. 433,865. 9 Claims. (Cl. 2—132.)



1. In a collar having a band, a folded over top including a plurality of plies, and a fabric sleeve disposed between adjacent plies and near the front edges thereof, said sleeve and one of said plies having registered openings whereby a stiffening member may be inserted within the sleeve.

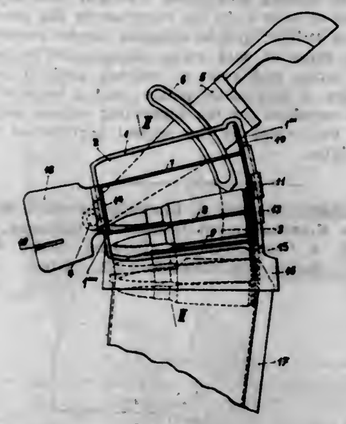
1,786,536. FIRING MECHANISM FOR AUTOMATIC FIREARMS. EMANUEL HOLEK, Brunn, Czechoslovakia, assignor to the Firm Ceskoslovenska Zbrojovka Akciova Spolecnost V Brne, Brunn, Czechoslovakia. Filed June 18, 1929, Serial No. 371,786, and in Czechoslovakia June 20, 1928. 14 Claims. (Cl. 42—3.)



1. A firing mechanism for automatic firearms having a breech which is retained in open condition by a device adapted to actuate the priming bolt, said mechanism comprising control means associated with said breech, said control means being adapted to prevent retention of said breech by said device during rapid closing motion of said breech.

1,786,537. APPARATUS FOR FILLING MAGAZINES FOR SELF-LOADING FIREARMS. VÁCLAV HOLEK, Brunn, Czechoslovakia, assignor to the Firm Ceskoslovenska Zbrojovka Akciova Spolecnost V Brne, Brunn, Czechoslovakia. Filed July 11, 1929, Serial No. 377,523, and in Czechoslovakia Oct. 15, 1928. 11 Claims. (Cl. 42—87.)

1. Apparatus for feeding cartridges to the magazines of fire arms consisting of a receptacle for the cartridges, said receptacle being apertured in one side wall above the bottom of said receptacle so as to permit of the passage therethrough of a cartridge, a feeder adapted to be moved towards and away from said apertured wall, means for connecting said receptacle with a magazine to be filled, and means in the receptacle adapted to pile

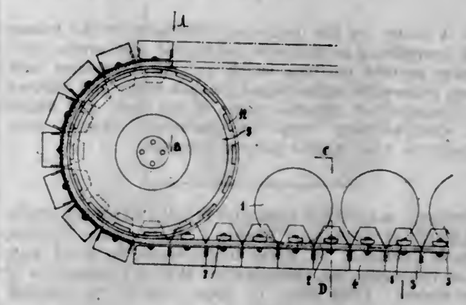


loose cartridges introduced into the receptacle in rows of superposed cartridges in such manner that when the feeder is moved towards the apertured side wall the cartridges in the lowermost row are transferred successively through the said apertured wall into the magazine.

1,786,538. CHEMICAL-PULP PAPER-MAKING PROCESS. FRANK A. JOHNSON, Felts Mill, N. Y., assignor of one-fourth to John H. O'Connell, Springfield, Mass., one-fourth to John D. Haskell, Fulton, N. Y., and one-fourth to Dilts Machine Works, Inc., Fulton, N. Y., a Corporation of New York. Filed Oct. 15, 1927. Serial No. 226,526. 2 Claims. (Cl. 92—20.)

1. A process for treating chemical pulp for making paper, consisting in subjecting chemical pulp to a grinding operation as distinguished from a beating action varying the character of the grinding stones or the equivalent thereof in accordance with the nature and quality of the paper to be produced, applying freeness tests at the point of grinding, varying the pressure of the pulp against the grinders and introducing water in accordance with the requirements of the particular pulp under treatment and the product desired.

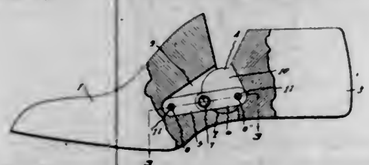
1,786,539. METAL AND RUBBER TRACK BELT. ADOLPHE KEGRESSE, Courbevoie, France. Filed Apr. 5, 1929, Serial No. 352,709, and in France Apr. 20, 1928. 3 Claims. (Cl. 305—10.)



1. An endless track belt for use in connection with a driving pulley provided with peripheral recesses, and a

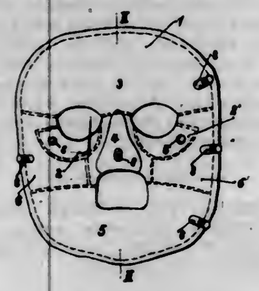
series of supporting rollers; said belt composed of a pair of endless strips arranged side by side in spaced, parallel relation; metal connecting plates arranged transversely of the belt in substantially contacting relation with one another along their longitudinal edges and fastened to the outer faces of said strips; a longitudinal row of driving projections arranged centrally on the inner face of each strip for reception in the recesses in the driving pulley; ground-engaging blocks connected to the outer faces of said metal plates; and bolts to connect the strips and rows of driving projections to the inner faces of said metal plates; and a longitudinal row of guide members for the supporting rollers secured between the two strips at the central portions of said connecting plates.

1,786,540. LAST. WALTER A. KRENTLER, Detroit, Mich., assignor to Krentler-Arnold Hinge Last Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 14, 1927. Serial No. 219,408. 12 Claims. (Cl. 12—136.)



2. A connecting device for hinged lasts including a plurality of link members having overlapping adjacent ends and formed with openings in said overlapping ends, and yielding means within said openings forming the whole connection between said members and exerting a force tending to move said members relatively in a longitudinal direction and to hold the last parts in yielding contact with each other.

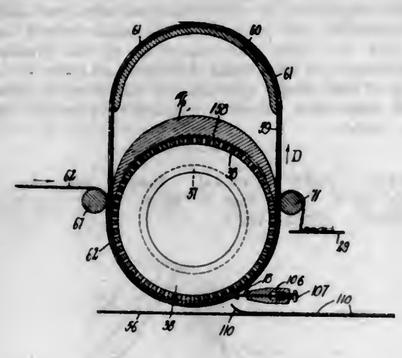
1,786,541. DEVICE FOR THE DIATHERMIC TREATMENT OF THE HUMAN BODY. ERWIN LAST, Vienna, Austria. Filed Apr. 5, 1929, Serial No. 352,687, and in Austria, Feb. 21, 1929. 11 Claims. (Cl. 174—89.)



1. A device for the diathermic treatment of the human body comprising an electrode subdivided into several conductive surface portions which are insulated from each other, immovable with respect to each other and adapted for treatment of different parts of the body, and means for simultaneously supplying diathermic current individually to said several surface portions.

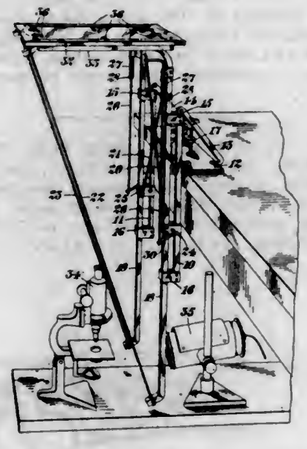
1,786,542. MACHINE FOR CUTTING ARTICLES FROM SHEET MATERIAL. FRANK J. MACDONALD, Newton, Mass., assignor, by mesne assignments, to Hood Rubber Company, Inc., Wilmington, Del., a Corporation of Delaware. Filed Sept. 17, 1928. Serial No. 306,308. 28 Claims. (Cl. 164—34.)

1. A cutting machine having, in combination, a carrier for sheet material provided with recesses, mechanism to move said carrier, means to force portions of said sheet material into said recesses, and a knife so positioned



adjacent to said carrier as to sever the sheet material in said recesses from the remainder of said sheet material.

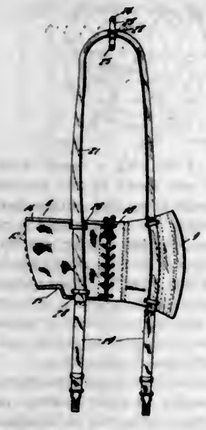
1,786,543. APPARATUS FOR USE IN MAKING GRAPHIC REPRODUCTIONS OF IMAGES PROJECTED FROM A MICROSCOPE. JOHN FREDERICK MARSHALL, Hayling Island, England. Filed Oct. 5, 1927, Serial No. 224,128, and in Great Britain May 21, 1927. 6 Claims. (Cl. 88—24.)



1. For use in making a graphic reproduction of an image projected from a microscope, apparatus comprising in combination a bracket, clamping means on said bracket arranged to enable the latter to be readily secured to an existing support, a movable carrier mounted upon the bracket, means for permitting rectilinear adjustment of the carrier in relation to the bracket, and an image-receiving sheet supported on the carrier with its plane perpendicular to the line of adjustment of said carrier on the bracket.

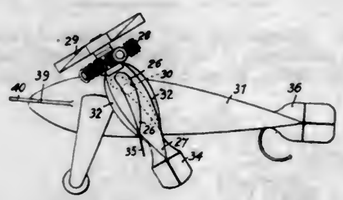
1,786,544. MATERNITY SUPPORTER. SARAH FRANCES MORGAN, Poughkeepsie, N. Y. Filed Oct. 17, 1929. Serial No. 400,380. 1 Claim. (Cl. 2—41.)

A maternity supporter comprising a body encircling band having an elastic front section, and an inelastic back section, the front and back sections being respectively provided on their outer faces, and adjacent each side of the supporter with a pair of upper and lower vertically alined guide loops, the loops of each pair being respectively located adjacent the top and bottom edges of the sections, a shoulder strap at each side of the supporter and slidably engaged in corresponding front and back



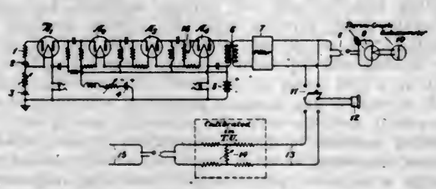
pairs of guide loops, each of said shoulder straps having their lower free ends provided with garment supporting means and their upper or right portion provided with retaining means for additional garment shoulder straps.

1,786,545. AEROPLANE FOR HORIZONTAL AND VERTICAL FLIGHT. JACOB EMIL NOEGGERATH, Berlin, Germany. Filed Apr. 26, 1926, Serial No. 104,640, and in Germany Apr. 29, 1925. 5 Claims. (Cl. 244—14.)



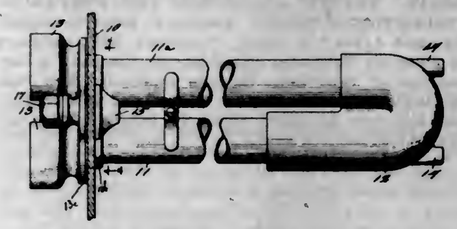
1. Aeroplane for horizontal and vertical flight comprising a supporting structure, a tiltable plane on each side of said structure, a separate propeller associated with each plane, ailerons on said planes, and additional steering means, said ailerons and said steering means being arranged in the propeller air blast and being adapted to be moved together with the planes and the propellers.

1,786,546. POWER-STANDARD DEVICE. HARRY NYQUIST, Millburn, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Apr. 20, 1928. Serial No. 271,544. 15 Claims. (Cl. 179—175.)



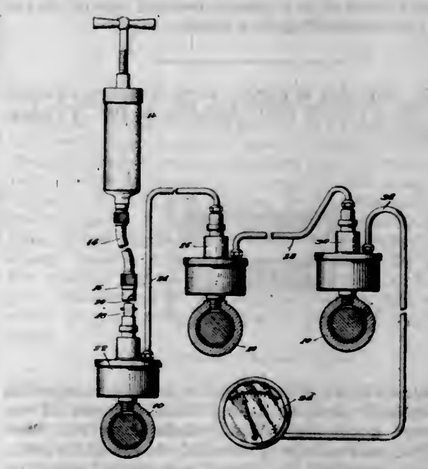
11. The method of generating a composite alternating current of definite power-frequency value over a definite range of frequencies which consists in holding a definite resistance at a definite temperature, and amplifying the voltage fluctations across its terminals due to thermal agitation within the resistance with the amplification ratio a definite function of frequency, whereby the amplifier output will be a fluctuating current of substantial definite power at each frequency of the frequency range.

1,786,547. SECONDARY WATER HEATER. GUNNER OLSON and EUGENE H. KEHL, Chicago, Ill. Filed Sept. 8, 1928. Serial No. 304,798. 7 Claims. (Cl. 257—248.)



1. In combination with a boiler an auxiliary water heater comprising a head external of the boiler having a flange entering through an aperture of the boiler, and adjacent thereto a radial flange for external contact with the boiler; vertical openings in the face of the head; and vertical openings in the rear of the head—in the portion extending through the aperture into the boiler; a partition wall between the upper and the lower holes; tubular members fixedly positioned in the holes in the rear of the head; the lower of the tubes being shorter than the upper of the tubes, the said lower tube being devised to receive colder water as it enters the device, the upper of said tubes adapted to transport the said water out of the device after it has been raised in temperature by contact with the contents of the boiler; a member bent upon itself forming the connection between the two tubes at their outer end, the lower portion of said connecting member being a longer channel than the upper portion accommodating the difference in length between the lower tube and the upper tube.

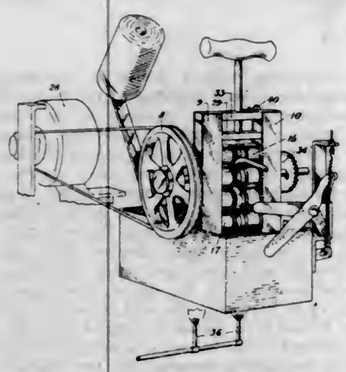
1,786,548. PRESSURE LUBRICATING SYSTEM. EARL F. PIERCE, Winnetaka, and DONALD H. SWEET, Evanston, Ill., assignors to Alemite Corporation, Chicago, Ill., a Corporation of Delaware. Filed Apr. 27, 1925. Serial No. 26,191. 26 Claims. (Cl. 184—7.)



1. A pressure lubricating system comprising a plurality of machine elements to be lubricated, a single conduit com-

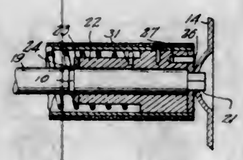
municating with all said elements, supply means for delivering lubricant under pressure to one end of said conduit, and valve control devices in the conduit adjacent each element, each device normally cutting off that portion of the conduit more remote from the supply and operating under a pressure impulse first to deliver a measured quantity of lubricant to its own element and second to cut off its element and simultaneously open the conduit beyond, and pressure indicating means at the end of the conduit beyond the last device.

1,786,549. METHOD AND MEANS FOR PREPARING INSULATING SLEEVES. THOMAS C. REED, Covington, Ky., and AUBREY D. ODELL, Cincinnati, Ohio, assignors to American Telephone and Telegraph Company, a Corporation of New York. Original application filed June 30, 1925, Serial No. 40,615. Divided and this application filed Sept. 22, 1926. Serial No. 137,084. 2 Claims. (Cl. 154—2.5.)



1. In a machine for producing insulating sleeves from a relatively long section of collapsed, flexible sleeving, the combination with a container for holding the fluid for impregnating the sleeving, of a mandrel to expand the sleeving, a plurality of grooved rollers to support the said mandrel, the said rollers being interconnected so that the movement of one effects the movement of the others, a framework supporting the said rollers, and guides fastened to the said container to slidably receive the said framework and to hold it in a desired position relative to the level of the impregnating fluid therein.

1,786,550. ROLLER SCREEN. JOHN H. STORY, Oakland, Calif. Filed Jan. 11, 1926. Serial No. 80,499. 4 Claims. (Cl. 156—39.)



1. A screen roller of the character described comprising a non-rotatable shaft having an annular groove at one end thereof, a bushing rotatably mounted on said shaft intermediate said annular groove and the end of the shaft, a split ring seated in said groove, a spring influenced rotatable member surrounding said shaft and supported in spaced relation thereto.

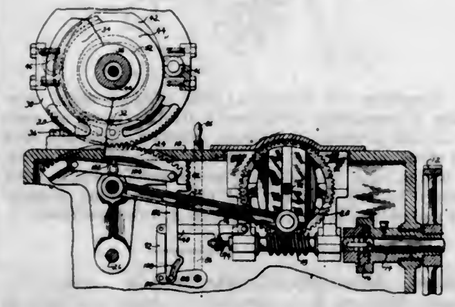
1,786,551. GEAR-CUTTING MACHINE. FRANCIS T. SWAIN, Newcastle, Ind. Filed Mar. 26, 1927. Serial No. 178,594. 10 Claims. (Cl. 90—9.)



1. The method of cutting a gear which consists in cutting the face of one tooth in the direction of its roll, moving the gear away from one cutter during the return movement of the cutter to a position for cutting the face of another tooth by another cutter, cutting the opposite face of the other tooth in the direction of its roll and opposite to that of the first cutting operation, returning the gear to its first position during the return movement of the cutter after the second cutting operation, indexing the gear to cut a face of a tooth adjacent the tooth first cut, and repeating the aforesaid operations.

10. In a machine of the class described comprising, a gear supporting member, a gear secured to said member, a pair of cutting edges adjacent said support for cutting involute surfaces on the opposite faces of different teeth of said gear, an arm pivoted axially with said supporting member adapted for limited angular movement, a lock carried by said arm adapted for engagement with said toothed member, means for rocking said support thru said arm and lock in the direction of each cutting operation and before said cutting operation, means for rocking said support in the opposite direction to each of said cuts immediately after the cut has been made, means for indexing said support and gear, and means for disengaging said lock during the indexing movement of said support and gear.

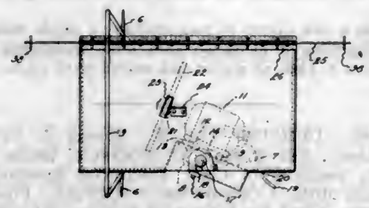
1,786,552. GEAR-CUTTING MACHINE. FRANCIS T. SWAIN and MERLE C. ST. CLAIR, Newcastle, Ind. Filed Mar. 26, 1927. Serial No. 178,596. 9 Claims. (Cl. 90—9.)



1. In a tool holder of the class described comprising, a pair of tool holding members pivoted on a common center, cutting tools in said tool holding members, an axially movable wedge between said tool holding members for moving them in opposite directions, and resilient means for holding said tool holding members against said wedge.

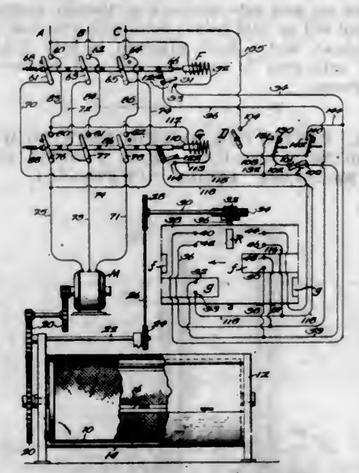
9. In a tool holder of the class described comprising, a pair of tool holding members pivoted on a common center, an axially movable wedge for angularly moving said tool holding members in opposite directions on their common center, angularly movable means for axially moving said wedge, a series of progressingly decreasing stops coacting between said angularly movable means and said axially moving wedge, and means for locking said tool holding members in adjusted position.

1,786,553. SKATE SHARPENER. HELMER THORNGREN, Detroit, Mich. Filed Apr. 11, 1927. Serial No. 182,646. 1 Claim. (Cl. 51—102.)



A skate sharpener comprising a frame, a motor adjustably mounted in said frame, an abrasive wheel mounted on the shaft of said motor, said abrasive wheel slightly extending through a slot in said frame, a guide plate spaced from said wheel and at a substantial acute angle to the axis of said wheel, said guide plate being formed with up-curved ends, a skate clamping member slidable on said guide plate and adapted to support the skate, the up-curved ends of the guide plate being adapted to rock the skate while in contact with said wheel, and a second guide member disposed adjacent said wheel for direct engagement with the skate.

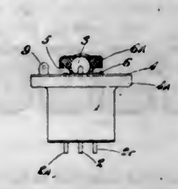
1,786,554. MOTOR-CONTROL SYSTEM. HERMON L. VAN VALKENBURG, Wauwatosa, Wis., assignor, by mesne assignments, to Square D Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 19, 1926. Serial No. 142,026. 4 Claims. (Cl. 172—240.)



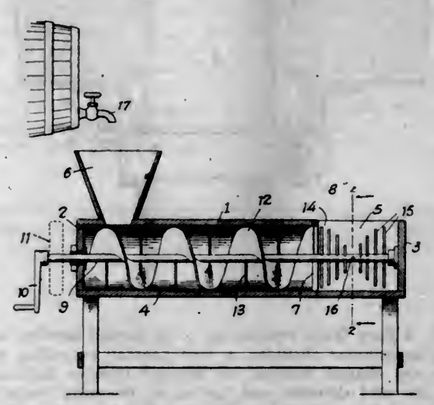
1. In a system for driving and periodically reversing a rotatable body, an electric motor for driving said body, magnetic switches, one for causing the motor to rotate forwardly and the other backwardly, a rotatable controller connected to said body to rotate therewith, the normal zone of operation of the controller being less than a complete revolution, and means controllable at will and independent of the controller for inching the motor to bring the controller back into the zone of operation in case it should over-travel.

1,786,555. RADIO CIRCUIT TESTING UNIT. THOMAS ALEXANDER DONALD WILSON and ERNEST REYNOLDS, Dunedin, New Zealand. Filed Mar. 12, 1926. Serial No. 94,238. 2 Claims. (Cl. 250—27.)

1. A testing unit comprising an insulating member adapted to cooperate with the vacuum tube socket of a radio set, four contact legs carried by said member and projecting below the same to electrically engage with the terminals of said socket, a metal plate carried by the upper surface of the member, a lamp socket on the upper surface of the member with one side in electrical connection with said plate and the other side in electrical connection with one of said legs, said plate being electrically connected with another of said legs, the remaining legs carried by the member being designed to electrically engage the grid and plate terminals of the socket respectively, contacts carried by and insulated from said plate and forming terminals of said last named remaining legs and of the leg connected to said plate, a polarity tester carried by and in electrical connection with said plate, and means also in electrical connection with said polarity tester and operative to selectively engage either of said contacts.



1,786,556. FEEDER AND DISINTEGRATOR OR MIXER. ROBERT V. ARNOLD, EMORY E. FLICKINGER, and SOLOMON E. WANTZ, Taneytown, Md. Filed July 3, 1929. Serial No. 375,714. 2 Claims. (Cl. 259—9.)

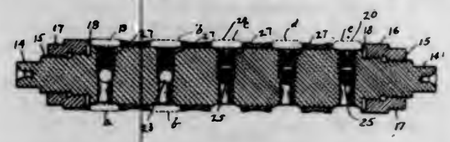


1. A device of the character described comprising a horizontal casing provided with a feed chamber having an inlet in its top at one end of said casing and a discharge chamber communicating with said feed chamber and having an outlet in its top at the opposite end of said casing, a feeder in the feed chamber for continuously forcing the material in a forward direction only therein from the inlet toward the discharge chamber, and means in the discharge chamber and arranged solely below the outlet in the chamber for moving the material back and forth in said chamber to give it a combined mixing and retarding action and to force its upward discharge through the outlet.

1,786,557. MEANS FOR MOUNTING BEARINGS ON ARBORS IN MULTIPLE. LOWELL C. BLOMSTROM, Detroit, Mich., assignor to Federal Mogul Corporation, Detroit, Mich., a Corporation of Michigan. Filed Aug. 6, 1927. Serial No. 211,088. 11 Claims. (Cl. 82—43.)

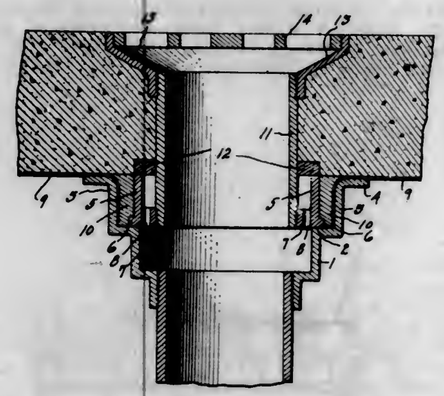
1. In combination with an arbor provided with oppositely threaded portions adjacent its ends, a supporting frame

provided with terminal abutments having seats wherein the ends of said arbor may be temporarily and non-rotatably positioned, a plurality of annular members adapted to be positioned about said arbor in alternating relation with bearing shells whose firm positioning for machining treatment is desired, and threaded terminal clamp members operatively engaging the correspondingly threaded



portions of said arbor and adapted to be moved toward and away from one another by induced rotative actuation lengthwise of said arbor, thereby forcing them and said annular members into marginal holding engagement with the edges of their adjacently positioned bearing shells, and holding the latter in temporarily immobile relation about the arbor.

1,786,558. FLOOR DRAIN. EDWARD W. N. BOOSEY, Detroit, Mich. Filed July 20, 1927. Serial No. 207,068. 2 Claims. (Cl. 285—37.)



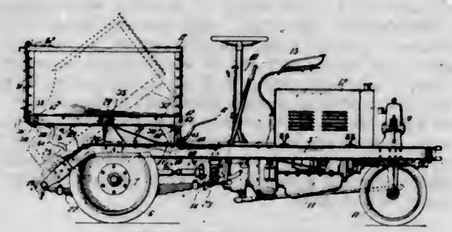
1. A floor drain comprising a cup shaped member having an annular shoulder, a lead flashing extending into the cup shaped member, an annular member positioned on the said shoulder and having an inwardly extending threaded flange provided with a series of apertures therethrough, a seepage ring positioned on the annular member, a nipple extending through the seepage ring and having one end threaded into the flange of the annular member a drainage head in threaded relation with the opposite end of the nipple, the seepage ring allowing seepage between the annular member and the nipple and through the apertured flange of the annular member, the space between the annular member and the lead flashing being filled with caulking to the level of the top of the cup shaped member securing the flashing and the annular member in position.

1,786,559. PROCESS FOR THE PRODUCTION OF SOLID MILK AND CREAM PREPARATIONS. PHILIPP BORN, Bad Homburg, Germany, assignor, by mesne assignments, to the Firm of Naamlooze Vennootschap Nederlandsche Gruyère-Blokmelk Fabriek, Zwolle, Netherlands. Filed Feb. 26, 1926, Serial No. 90,973, and in Germany Feb. 27, 1925. 11 Claims. (Cl. 99—5.)

7. Process for making solid, stable milk and cream preparations which consists in heating the milk, together with added sugar, with stirring in a vacuum until enough water is removed to cause the milk to form a mass capable of holding its shape, forming the resulting milk mass into blocks, and providing the blocks with a coating of cocoa-butter.

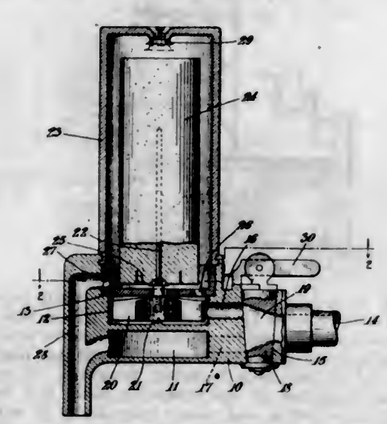
10. As a new article of manufacture, a stable milk product comprising a block of solid milk containing added sugar and 6–15% of water and coated with cocoa-butter.

1,786,560. DUMPING TRUCK. ROBERT J. BURROWS, Buchanan, and HARLOW D. BUANSIDE, Battle Creek, Mich., assignors to Clark Tructractor Company, Buchanan, Mich., a Corporation of Michigan. Filed June 9, 1926. Serial No. 114,670. 3 Claims. (Cl. 298—38.)



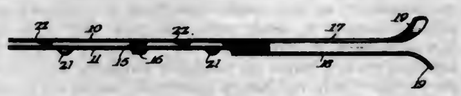
1. In a dump truck of the class described, a frame-work including side members, bosses attached to said side members, and projecting upward therefrom, a dumping bed pivotally mounted on said bosses, a counterweight attached to said bed, said weight being recessed to fit between and on said side members to thereby support one end of said bed on said frame, latch pins attached to said counterweight, and a latch attached to said frame and engaging said pins to hold the bed and counterweight on said frame.

1,786,561. DEVICE FOR SOAPING FLOWING WATER. EDWARD COLLENBURG, Corona, N. Y. Filed Feb. 16, 1928. Serial No. 254,639. 1 Claim. (Cl. 299—84.)



A device of the character described comprising a casing having a horizontal partition dividing it into upper and lower compartments, an impeller wheel rotatably mounted in the lower compartment, a soap carrier arranged in the upper compartment, means connecting said soap carrier to said impeller wheel for rotation therewith, a port connecting said compartments, an inlet conduit leading to said lower compartment and an outlet conduit leading from the bottom of said upper compartment, and a reversed relief valve for said upper compartment.

1,786,562. HEAT-INSULATING DEVICE FOR COOKING UTENSILS. CHARLES ENDORF, Chicago, Ill. Filed Aug. 17, 1927. Serial No. 213,487. 5 Claims. (Cl. 126—215.)

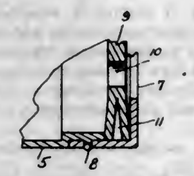


1. A device of the class described, comprising a plurality of rotatably related plates, one of said plates having a plurality of annularly spaced depressions formed therein, a plurality of annularly spaced lugs formed on the other of said plates and adapted to register with said depressions in a manner to permit the adjacent faces of said plates to contact each otber a pivot member operatively related to and connected with said plates, and means associated with said plates for relatively shifting the plates angularly with respect to each other in a manner to move said lugs out of said depressions for separating the adjacent faces of said plates and providing an air space therebetween.

1,786,563. CELLULAR COMPOSITION AND METHOD OF MAKING SAME. HARRY L. FISHER, Leonia, N. J., assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Dec. 28, 1926. Serial No. 157,617. 12 Claims. (Cl. 18—53.)

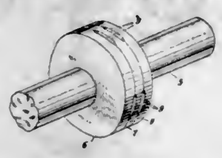
4. The herein described method of preparing a cellular composition by treating at elevated temperatures rubber containing sulfur with a substance of the generic formula $R—SO_2—X$.

1,786,564. COMBINED TAIL LIGHT AND LICENSE PLATE. THOMAS FISHER, Minatare, Nebr. Filed Apr. 30, 1930. Serial No. 448,571. 2 Claims. (Cl. 40—133.)



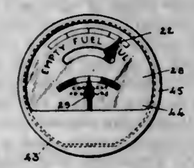
1. In an apparatus of the class described, a casing, a rim engageable over one edge of the casing, a panel held in place on said edge of the casing by said rim, said panel having its edge split with the parts immediately adjacent the split normally spread apart to be compressed together by the rim thereby preventing rattling of the panel.

1,786,565. THRUST BEARING. ALBERT E. FREEMAN, East Orange, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 18, 1927. Serial No. 226,906. 2 Claims. (Cl. 308—164.)



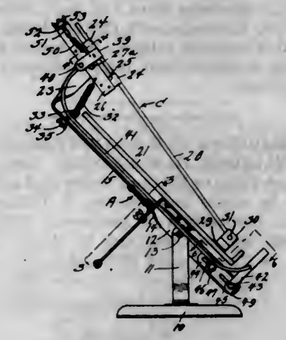
1. The combination of a plurality of self-lubricating bearings comprising a series of contacting disk-like members having flat surfaces with coinciding central apertures provided for a shaft, a plurality of wedge-shaped grooves extending in spaced relation from each other on the flat surfaces of the disk-like members from their peripheries to their central apertures, said grooves comprising beveled side portions and an intermediate depressed portion, said disk-like members being mounted to rotate at relatively different speeds to permit the periodic mating of the grooves of said members with the grooves of contiguous members whereby lubricant enters channels formed by the mating of said grooves, thus reestablishing a new film of oil on the flat surfaces of the disk-like members upon each succeeding periodic mating of the two grooves, said new film being maintained by the wedging action of the lubricant on both sides of the contacting surfaces of the disk-like members which counteracts the tendency of displacement of the lubricant which might be caused by the pressure exerted on the contacting surfaces of the disk-like members.

1,786,566. COMBINED LIQUID LEVEL AND PRESSURE GAUGE. HERBERT HASTINGS, Brighton, N. Y. Filed July 25, 1927. Serial No. 208,098. 32 Claims. (Cl. 73—82.)



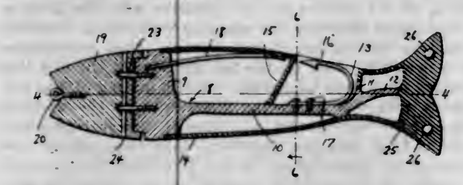
2. In a combined liquid level and pressure indicator adapted to be mounted on a tank and forming a pressure sustaining chamber therewith, and a dial chamber, there being an impervious wall between said chambers having a portion thereof that is pressure responsive with sufficient movement for operating the pressure indicator, a liquid level indicator and a pressure indicator in said dial chamber, means by which said pressure responsive portion of said wall transmits motion to said pressure indicator and magnetic means transmitting motion through said impervious pressure responsive wall to said liquid level indicator.

1,786,567. BOOKHOLDER. CHARLES JOSEPH HILKEY, Emory, Ga. Filed Sept. 14, 1928. Serial No. 305,926. 7 Claims. (Cl. 120—34.)



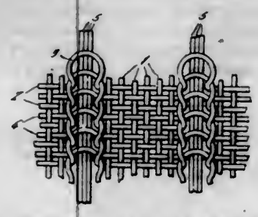
1. In a book holder, book supports, a supporting frame, a bearing carried by the frame, above the planes of the book supports near their upper ends, said bearing including spaced sleeves, a line guide including a guide bar and a guide rod secured to said bar and slidable in said sleeves, and a spacer comprising a jaw embracing the rod between the sleeves, and provided with a projecting portion, an actuating device positioned to exert a pull against the projecting portion of the jaw in such a manner as to twist the jaw into gripping engagement with the rod.

1,786,568. ARTIFICIAL BAIT. WALTER G. KUTZ, Toledo, Ohio. Filed June 13, 1929. Serial No. 370,631. 1 Claim. (Cl. 43—46.)



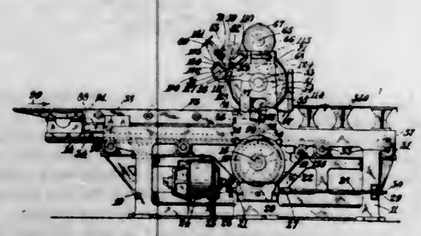
As a new product of manufacture, an artificial bait comprising a body portion including a rigid frame having an enlargement at one end defining the forward end portion of the body and having a right angularly extending longitudinal partition member, a compressible rubber casing attached to the enlargement and extending rearwardly over the partition member in spaced relation to the upper and lower sides thereof and in abutting engagement with the longitudinal side edges of said partition member and defining the intermediate and rear portions of the body and the tail, said casing cooperating with said partition member in forming a pocket, a hook concealed in said pocket, spring means carried by the enlarged end portion of the frame and bearing against the adjacent portion of the casing to yieldingly urge the same outwardly, eye bolts carried by said enlarged portion, and a head including a pivot pin pivotally connected with said eye bolts, said head being movable in a horizontal plane with respect to the body portion.

1,786,569. FABRIC. CHARLES F. LEE, Philadelphia, Pa., assignor of one-half to Warren P. Griffiths, Philadelphia, Pa. Filed Mar. 19, 1930. Serial No. 437,094. 6 Claims. (Cl. 139—383.)



1. A fabric comprising warp and weft threads forming woven sections, alternate weft threads being interlooped to form knitted sections between the woven sections and the remaining alternate weft threads directly connecting the woven sections.

1,786,570. MACHINE FOR TRANSFERRING DESIGNS ON TO CYLINDRICAL SURFACES. LESLIE LINZELL, London, and THOMAS EWART PHYTHIAN, Leeds, England, assignors, by mesne assignments, to Lithoprintex Corporation, a Corporation of Delaware. Filed Sept. 20, 1929, Serial No. 393,882, and in Great Britain Oct. 24, 1928. 14 Claims. (Cl. 101—33.)



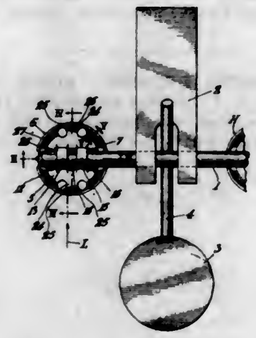
1. An offset printing machine of the character described, comprising in combination a reciprocatory bed having a flat surface for bearing a design to be transferred, a toothed rack movable with and extending in the direction of movement of said bed, a resilient cylindrically curved surface operatively related to said flat surface to receive an impression of the design therefrom, a mutilated gear wheel arranged to mesh with said rack and drive said curved surface, driving means for reciprocating said bed and said rack, a roller for rotatably engaging said curved surface to receive the design therefrom, means for producing a slight predetermined difference in the peripheral velocities of said roller and its engaging resilient surface, locking means arranged to lock said gear wheel against rotation during the return movement of the rack, and trip mechanism that is movable with said bed, which locking means comprises a stop carried by said gear wheel, a spring-controlled detent that is carried by said bed and is movable into and out of locking engagement with said stop, and a fixedly pivoted catch for holding said detent in its unlocking position, and which trip mechanism comprises two trip members, one at or towards each end of the bed, arranged respectively to coact one with said catch to release it from said detent, and the other with said detent to disengage it from said stop and engage it with said catch, at the two ends of travel of the bed.

1,786,571. METHOD OF MAKING HEAT-EXCHANGER TUBES. WILLIAM LONSDALE, Roselle Park, N. J., assignor to Foster Wheeler Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 27, 1929. Serial No. 343,221. 17 Claims. (Cl. 29—157.3.)



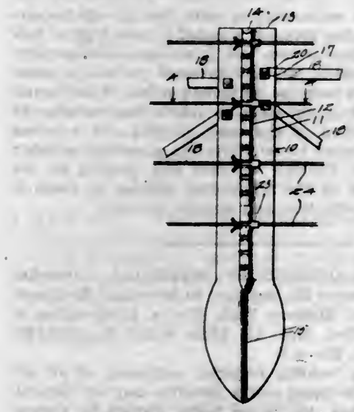
1. The method of making a seamless heat exchanger tube consisting in first reducing an end portion of an oversized tubular body to the desired transverse section of the finished tube, and then forming an integral fin in the oversized tubular body and in doing so reducing its transverse section to that of the previously reduced end portion thereof.

1,786,572. DOLL EYES. SAMUEL MARCUS, Riverdale, N. Y., assignor to Markon Manufacturing Co., Inc., New York, N. Y., a Corporation of New York. Filed Jan. 25, 1929. Serial No. 334,896. 3 Claims. (Cl. 46—40.)



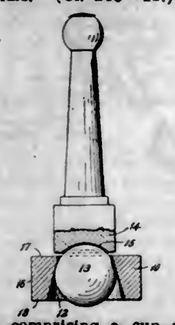
1. A doll eye set comprising a cross rod, means to rotatably support the cross rod, a pair of eyes, and means by which said eyes are connected with the cross rod, the means by which at least one of said eyes is connected with the cross rod consisting of a back plate formed as a part of the eye and having a plurality of yokes pressed therein projecting in alternate opposite directions to collectively form a bearing within which the cross rod frictionally engages, said yokes each being of resilient material and each being shaped to constitute two leaf-spring sections, each leaf-spring section having frictional engagement with the cross rod at the mid portion only of the length of the respective section, the opposite end portions of the respective sections projecting tangentially away from the cross rod, the bearing thus defined by said leaf spring sections providing four points of contact with the cross rod spaced substantially equi-distant circumferentially of the cross rod and being normally too small to receive the cross rod but the flexibility of the leaf spring sections enabling forced insertion of the cross rod.

1,786,573. FENCE-POST CONNECTION. JOHN B. MASBRANG, Belleville, Ill. Filed Mar. 2, 1929. Serial No. 344,076. 1 Claim. (Cl. 256—56.)



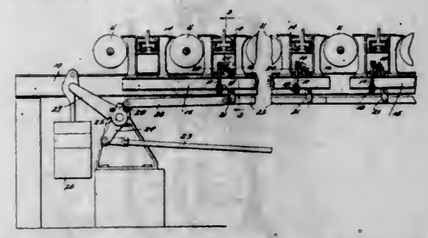
A fence post having longitudinal ribs one of which is formed with transverse wire receiving notches, each of said notches opening through the outer face of the rib in a narrow throat resulting in shoulders within the notch, said notch having upper and lower parallel walls and an inner arcuate wall, and a longitudinally split wedge member disposed transversely in the notch in engagement with said parallel walls, and bearing against said shoulders and said fence wire, the portions of the split being arranged to be spread, the inner wall of the notch being arcuate longitudinally of the rib whereby to maintain the wire against movement upwardly or downwardly from a position centrally behind within said notch.

1,786,574. VISCOMETER. ANTHONY G. M. MICHELL, Melbourne, Australia. Filed July 20, 1928. Serial No. 294,202. 6 Claims. (Cl. 265—11.)



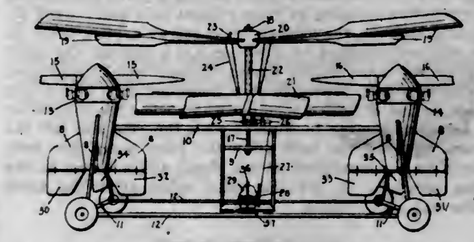
1. A viscometer comprising a cup and a ball having interfitting surfaces, said cup having a handle connected thereto, and a supplemental weight detachably carried by the ball and supported directly thereon.

1,786,575. CONVEYER TABLE. ERIK W. MIKAELSON, Easton, Pa., assignor to Treadwell Engineering Company, Easton, Pa., a Corporation of Pennsylvania. Filed Sept. 11, 1928. Serial No. 305,245. 13 Claims. (Cl. 80—44.)



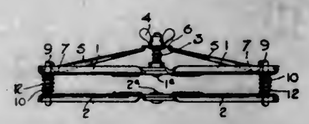
13. The combination with a run-out table for rolling mills having a series of rollers thereon for receiving and conveying metal blanks from a mill, of a cooling bed arranged laterally of said table, means for engaging and elevating the conveyed blanks to a position above said rollers, mechanism for moving said means through a curved path approximating the contour of the rollers into blank engaging position, and means for shifting said blanks onto said cooling bed.

1,786,576. HELICOPTER. HARRY TRACY NELSON, Dallas Tex. Filed Jan. 25, 1930. Serial No. 423,894. 3 Claims. (Cl. 244—19.)



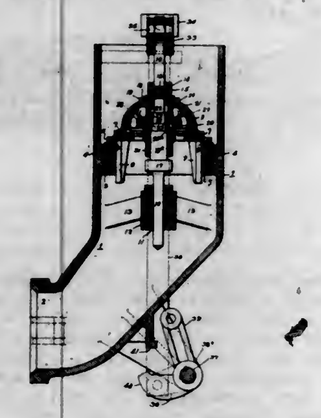
1. In a helicopter, the combination of a frame, motors with horizontal propellers mounted on opposite sides of the frame, a large horizontal propeller mounted on a vertical axis above the center of the frame, the lower hub of which is extended downward with a smaller propeller fixed near the lower end of the hub, said propeller being free to rotate horizontally with the large propeller, means for controlling the direction of the machine and means for varying the pitch of the large propeller.

1,786,577. PRESS FOR TENNIS AND LIKE RACKETS. REUBEN PURCELL, East Finchley, London, England. Filed July 11, 1928, Serial No. 291,845, and in Great Britain July 13, 1927. 4 Claims. (Cl. 273—74.)



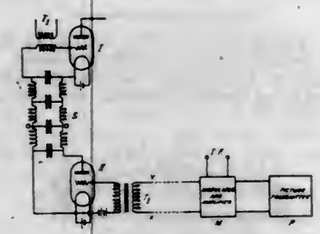
1. A press for tennis rackets comprising two frames each consisting of a pair of rigid bars intersecting each other at about their centres so as to produce two X shaped frames, a pivot pin passed through the intersecting parts of each of the frames so that the ends of the bars of each frame may be moved towards and away from each other, an abutment threaded on one of said pivot pins, links connecting the outer ends of the two frames, abutments on said links, levers lying along the bars of one of the X shaped frames and engaged with said threaded abutment and the abutments of said links.

1,786,578. THROTTLE VALVE. MENAHEM RIVKIN, Philadelphia, Pa. Filed Sept. 25, 1929. Serial No. 395,097. 2 Claims. (Cl. 277—37.)



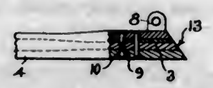
1. The combination in a throttle valve, of a casing; a seat in said casing; a multiple throttle valve, the outer section of the valve arranged to rest upon said seat, said outer section having two hubs, one located above the other, the said outer section having radial spaces between the two hubs, the outer section having a valve seat and an inner section adapted to close against said seat; a rod extending through the said throttle valve; a pilot valve on the said rod adapted to close against a seat on the inner section, the inner section having internal ribs bearing upon the valve steam, the valve stem being enlarged below said inner section to form a shoulder which when the valve stem is raised will come in contact with the ribs and lift the inner valve off its seat after the pilot valve has been raised on the movement of the stem; and a collar on the stem arranged to lift the main valve after the inner valve has been raised.

1,786,579. METHOD OF INTERMEDIATE FREQUENCY MODULATION INSIDE A RADIO-FREQUENCY MODULATOR TUBE. OTTO SCHRIEVER, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed Nov. 21, 1928. Serial No. 320,827. 4 Claims. (Cl. 179—171.)



1. In a signal transmission system, a transmitter tube circuit including means for generating a carrier wave for the signals to be transmitted, a modulator tube circuit, and a source of intermediate frequency energy, means for modulating said intermediate frequency energy in accordance with signals desired to be transmitted means for impressing said modulated intermediate frequency energy on said modulator tube circuit, means comprising the modulator tube for demodulating said energy, means comprising said modulating tube for modulating said carrier wave with said demodulated energy and means intermediate said transmitted tube circuit and said modulator tube circuit for preventing said intermediate frequency energy from being impressed upon said transmitter tube circuit.

1,786,580. OPHTHALMIC MOUNTING. ELMER L. SCHUMACHER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Jan. 9, 1928. Serial No. 245,600. 6 Claims. (Cl. 88—52.)

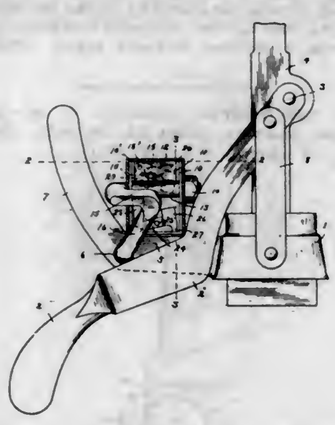


1. The process of making a part for an ophthalmic mounting comprising forming a metallic core with a flattened portion adjacent one end, pressing a non-metallic tube over the metallic core and flattened portion to cause the tube to flatten over the flattened portion of the metallic core, securing a non-metallic reinforcing member to the flattened portion of the tube, shaping out a recess for a metallic member therein, riveting a metallic member in the recess and through the core and shaping up the remaining portion of the reinforcing member to blend it with the non-metallic tube and metallic member.

1,786,581. ARC-QUENCHING MATERIAL. GODFREY STEERUP, Maywood, Ill., assignor to Electrical Engineers Equipment Co., Melrose Park, Ill., a Corporation of of Illinois. Filed Mar. 19, 1928. Serial No. 262,966. 6 Claims. (Cl. 23—8.)

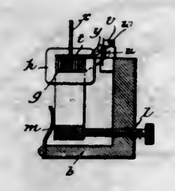
5. A conductor bedding material composed of an arc quenching volatile liquid and a metallic soap of naturally solid consistency, the latter being jellified by absorption of the former at ordinary temperatures and the liquid being volatile at temperatures occurring adjacent to fuse elements as the latter heat up under load.

1,786,582. GRAVITY LOCK. PETER SWANSON, Ely, Minn. Filed Oct. 3, 1927. Serial No. 223,673. 5 Claims. (Cl. 70—128.)



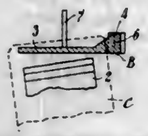
1. A gravity lock of the type described comprising a housing, a gravity bolt having pivotal connection within the housing, and means independent of the housing for automatically holding the bolt in unlocked position.

1,786,583. ELECTRICALLY-OPERATED VIBRATORY DEVICE. MAURICE TROUTON, Buckinghamshire, England, assignor to Wireless Music Limited, London, England. Filed Feb. 29, 1928, Serial No. 257,971, and in Great Britain Apr. 1, 1927. 12 Claims. (Cl. 175—336.)



1. An electrical vibratory device comprising a magnet pole, a supporting bar clamped at both ends, and an armature of magnetic material projecting from said supporting bar, the co-operating surfaces upon the magnet pole and armatnre being inclined to one another when the magnetic force between said surfaces is reduced to zero, the inclination being such that if the armature is displaced to an extent which brings the co-operating surfaces into contact, the angle between said co-operating surfaces is less than it would be if no relative inclination were provided at zero magnetic force.

1,786,584. ELECTROMECHANICAL VIBRATION-TRANSLATING DEVICE SUCH FOR EXAMPLE AS LOUD-SPEAKERS. MAURICE TROUTON, Buckinghamshire, England, assignor to Wireless Music Limited, London, England. Filed July 19, 1928, Serial No. 293,961, and in Great Britain Aug. 5, 1927. 13 Claims. (Cl. 175—336.)



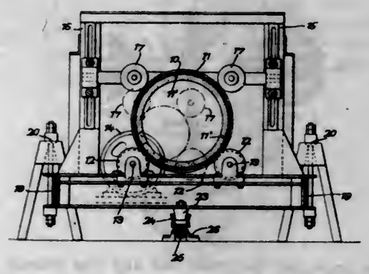
1. A vibratory device comprising an armature mounted for vibration about an axis, a magnet pole surface adapted to co-operate with a surface of said armature, means adapted to vary the force between the armature and magnet pole surface in accordance with electrical oscillations, a member adapted to be driven by said armature, and means connecting the armature with said member, said connecting means being attached to the armature at a point situated between the centre of said cooperating surfaces and the ends thereof nearer said axis.

1,786,585. DEVICE FOR HOLDING LOOMS ON CABLES. HERBERT E. WALKER, Los Angeles, Calif. Filed Nov. 26, 1927. Serial No. 235,765. 1 Claim. (Cl. 173—266.)



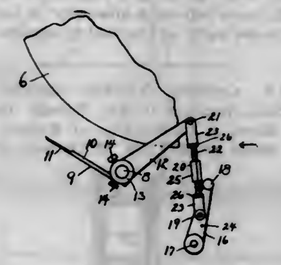
A means for protecting a flexible cable, said means comprising a pair of bendable metal sleeves slidably mounted on said cable, each of said sleeves having an enlarged socketed end, said sleeves being disposed with their socketed ends extending toward each other, and a flexible metal loom disposed on said cable between said sleeves, said loom being of less length than the flexible cable, the loom and the sleeves being adjustable along the cable, the ends of the loom engaging in the socketed ends of the metal sleeves and the smaller ends of said sleeves being adapted to be indented into the cable to retain the sleeves and the loom in immovable relation to said cable.

1,786,586. METHOD AND AN APPARATUS FOR MANUFACTURING HOLLOW BODIES. GEORGES WALTER, Perroy, Switzerland. Filed Aug. 14, 1929, Serial No. 385,934, and in Switzerland Aug. 18, 1928. 5 Claims. (Cl. 25—30.)



4. A machine for manufacturing hollow bodies centrifugally, comprising in combination, a mould adapted to permit passage of a liquid therethrough, means for imparting a rotation to said mould, and filter means detachably fixed to said mould and adapted to oppose a resistance to the passage of the liquid through them and to prevent the passage of solid particles, said means comprising a member non-flexible in the longitudinal direction and flexible in the circumferential direction, and a filter cloth.

1,786,587. DOCTOR FOR PAPER-MAKING MACHINES. JOHN WENZEL, Chillicothe, Ohio. Filed Nov. 11, 1929. Serial No. 406,275. 3 Claims. (Cl. 92—74.)

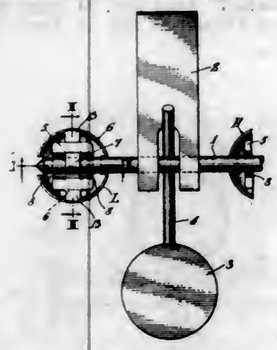


1. A doctor for paper making machines including a shaft, a doctor thereon, a lever connected to one end of said shaft, a handle pivoted at one end, an adjustable connecting rod having one end pivoted to the handle intermediate the ends of the latter and the other end pivoted to the lever and a stop pin on the handle to one side of the longitudinal center thereof and between its pivot point and the pivotal connection of the connecting rod with said handle.

1,786,588. DOLL EYES. JOHN H. WILHELM, Rockaway Beach, Long Island, N. Y., assignor to Markon Manufacturing Co., Inc., New York, N. Y., a Corporation of New York. Filed Feb. 14, 1929. Serial No. 339,779. 5 Claims. (Cl. 46—40.)

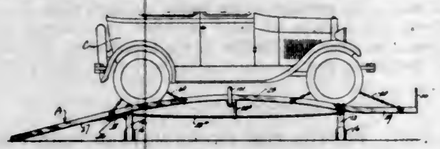
1. A doll eye set comprising a cross rod, means by which to rotatably support the cross rod in a doll head, a gravity control for the cross rod, and a pair of eyes connected with the cross rod, the means by which one of said eyes is connected with the cross rod consisting of a back plate carried by the eye having a plurality of oppositely disposed yokes pressed up from the material thereof col-

lectively providing a bearing within which the cross rod engages, and said yokes each being of double thickness one



thickness engaging the cross rod and the second thickness being out of engagement with the cross rod and overlying and pressing against the first thickness.

1,786,589. TILTING DEVICE FOR VEHICLES. ALVA WILLIAMSON, San Bernardino, Calif. Filed Nov. 2, 1929. Serial No. 404,312. 6 Claims. (Cl. 214—1.)



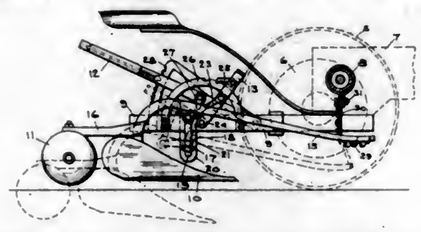
1. In a vehicle tilting device a base supporting construction having elevated tracks suported thereon in spaced substantial parallelism, said tracks having the portions thereof over which the vehicle wheels travel for the major distance convexed upwardly to facilitate clearance of the under parts of the vehicle chassis.

1,786,590. CASING RIPPER. ROBERT ALTHAUSEN, Ranger, Tex., assignor to The Eureka Tool Company, Augusta, Kans., a Corporation of Kansas. Filed Feb. 4, 1929. Serial No. 337,279. 3 Claims. (Cl. 81—188.)



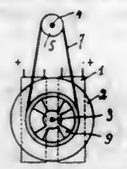
1. A casing ripper comprising an elongated slotted body member, an eccentrically pivoted cutter in the body member having a cutting portion projectable through the slot, a spring for normally urging the cutter into cutting engagement, a bolt projectable into the end of the slot to retract the cutter within the slot and a latch bolt for holding the first named bolt in cutter retracting position.

1,786,591. LISTER ATTACHMENT FOR TRACTORS. WILLIAM M. ANDERSON, Brownville, Nebr., assignor of one-half to Arch Hosterman, Brownville, Nebr. Filed Aug. 19, 1929. Serial No. 386,799. 5 Claims. (Cl. 97—47.)



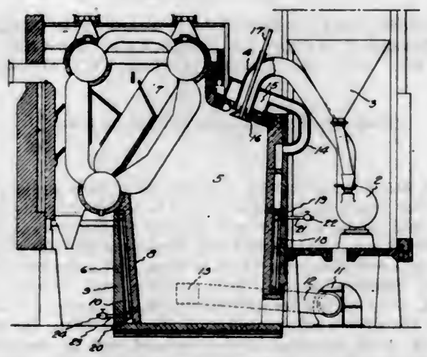
1. In lister attachments for a tractor, buffer-bars secured to and projecting below a part of the tractor, a frame rigidly secured to the tractor, a crank shaft journalled to permit rocking movements of its arms at the sides of the frame, a pair of lister-beams provided with ground-engaging elements, each beam being journalled on an arm of the crank shaft and disposed with one of its ends below a buffer-bar, and a pair of chains connecting the beams with said buffer-bars.

1,786,592. ELECTROPLATING APPARATUS. KAZIMIERZ BARANOWSKI, Paris, France, assignor to Wladimir J. Einstein, London, England. Filed Oct. 29, 1928, Serial No. 315,893, and in Great Britain Dec. 21, 1927. 4 Claims. (Cl. 204—5.)



1. In electro-plating apparatus the combination of an electrode, a rotatable cleaning brush in contact therewith and vanes upon the cleaning brush so located as to move the electrolyte radially through the brush bristles over the electrode surface.

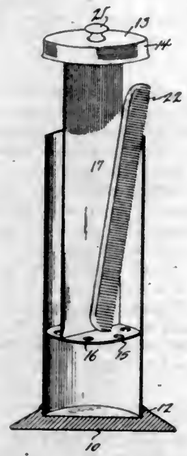
1,786,593. FURNACE. RAYMOND C. BENNER, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a Corporation of Pennsylvania. Filed Dec. 13, 1927. Serial No. 239,724. 15 Claims. (Cl. 122—6.)



1. In a furnace, a combustion chamber having a wall with a refractory lining comprised principally of silicon

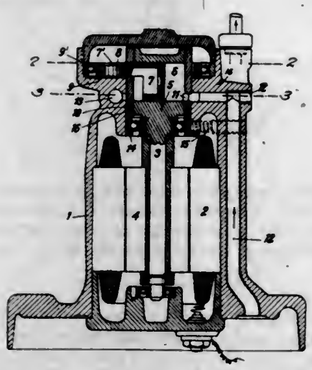
carbide, said lining having a thermal conductivity many times that of fire clay, water-tight conduits in said wall structure, an air passage in said wall structure, and means for forcing a current of air through said air passage.

1,786,594. STERILIZING CONTAINER FOR BARBERS. CECIL C. BETZER, Bronson, Iowa. Filed Jan. 7, 1929. Serial No. 330,828. 1 Claim. (Cl. 312—78.)



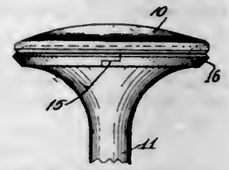
A sterilizing container for barber's instruments comprising a container proper of upright tubular form, a cover therefor, a perforated false bottom to support instruments within the container, and a partition member, extending substantially from side to side of the container proper, secured rigidly to the false bottom and to the cover, serving to support the false bottom from the cover, and dividing the container into plural compartments, whereby the instruments will be separated and held in nearly upright positions.

1,786,595. AIR COMPRESSOR. BERNHARD BISCHOF, Winterthur, Switzerland, assignor of one-half to Charles Haccius, Cologny-Geneva, Switzerland. Filed Nov. 12, 1927, Serial No. 232,884, and in Germany Nov. 15, 1926. 3 Claims. (Cl. 230—176.)



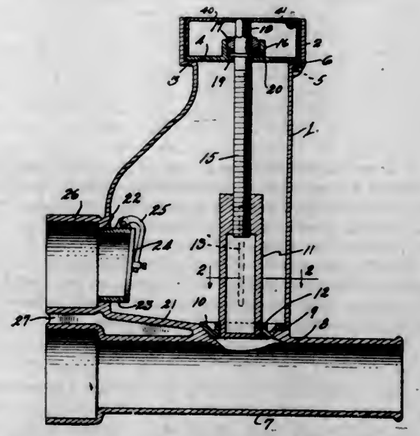
1. In an air compressor, in combination, a rotating shaft having a cross bore constituting a working cylinder, a piston reciprocable in said cylinder, an electric motor armature carried by said shaft, a stator casing, a shaft bearing containing radial fluid inlet and discharge ports, a ball bearing arranged on the shaft and including an outer ring fitting with small play into the bearing containing the ports, and a pressure device forcing said ring against that side of the bearing containing the discharge ports.

1,786,596. VALVE WITH REMOVABLE RING SEATING SURFACE. RICHARD E. BISSELL, Cleveland, Ohio, assignor to Thompson Products, Inc., a Corporation of Ohio. Filed Feb. 9, 1928. Serial No. 253,139. 8 Claims. (Cl. 251—159.)



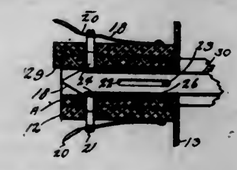
1. A valve having a groove in the face portion thereof, and a split ring having overlapping ends and seating in said groove, said ring being initially formed as a helix whereby sealing pressure will be applied to the split when said ring is seated in said groove.

1,786,597. DRAINAGE FITTING. EDWARD W. N. BOOSEY, Detroit, Mich. Filed Aug. 22, 1929. Serial No. 387,572. 7 Claims. (Cl. 182—25.)



1. A drainage fitting comprising a chambered casing having an inlet on one side, a swing check valve adapted to prevent back flow from the casing through the opening, a conduit formed integrally with the bottom of the casing, there being an opening in the bottom of the casing providing for a discharge therefrom to the conduit, and a valve for controlling the opening.

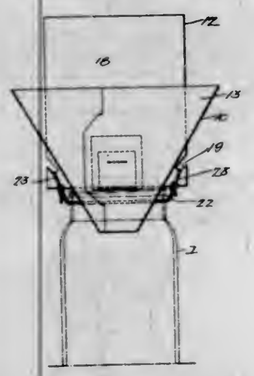
1,786,598. ELECTRICAL CONNECTER. WILLIAM H. BROER, Yankton, S. Dak. Filed Sept. 3, 1929. Serial No. 389,983. 6 Claims. (Cl. 173—330.)



1. In a safety electrical plug connecter, a socket, provided with a pair of opposed openings, a pair of contact

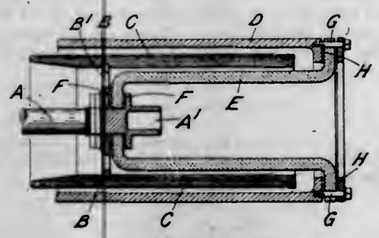
points mounted in said openings, in positions removed from the inner surface of the socket, resilient means supporting the contact points in said positions and allowing them to recede from said positions, a plug comprising a shaft, a handle on the shaft, a sleeve longitudinally slidable on the shaft, receivable in the socket, and provided with a pair of opposed openings adapted to register with the socket openings, a pair of contact points mounted in said openings, resilient means supporting the contact points, and current carrying devices on the shaft connected with the contact points of the sleeve, the shaft being provided with means to spread said last mentioned contact points while moving longitudinally in the sleeve.

1,786,599. BEETLE TRAP. EDWARD S. BULLOCK, Lansdowne, Pa. Filed Apr. 1, 1930. Serial No. 440,781. 5 Claims. (Cl. 43—107.)



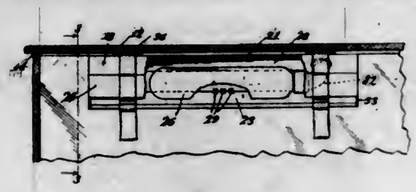
1. A trapping element for a trap of the type described, comprising a cone having diametrically-opposed longitudinally-extending slots, a baffle comprising a sheet having a width slightly greater than the diameter of the cone at the lower ends of the slots and less than the diameter of the cone at the upper end of the slots, having its corners extending through said slots and seating on the lower end walls thereof, and means coacting with said corners for securing said baffle in position in the cone.

1,786,600. ELECTRIC COUPLING. FRANK COATES, Cleadon, England, assignor to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England, a Company of Great Britain. Filed Jan. 3, 1929, Serial No. 329,991, and in Great Britain Mar. 6, 1928. 3 Claims. (Cl. 173—353.)



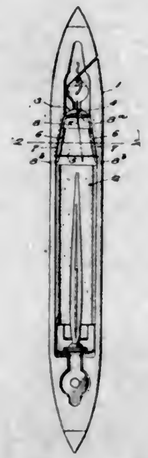
1. A metal-clad electric coupling of the condenser orifice type comprising a conductor, a tubular condenser supported around said conductor, a metal casing around said condenser, and an inner member of impervious insulating material separate from the condenser, said inner member being attached to said conductor and forming a closed joint with the outer end or mouth of said metal casing.

1,786,601. DISPLAY LIGHT FOR SHOW CASES. CLARENCE W. COLE, Los Angeles, Calif. Filed July 22, 1929. Serial No. 379,947. 2 Claims. (Cl. 240—6.)



1. A reflector for show cases comprising a substantially U-shaped metal housing member having two of its walls bent at right angles to each other in order to snugly fit into a right angled corner of a glass show case, an auxiliary strip member having a loop formed therein secured to one of the longitudinal edges and extending upwardly and around the angled corner of said reflector housing, the end being disposed on the uppermost wall, and a bendable strip member for supporting the reflector formed of relatively thin metal adapted to be passed through the cemented edge of a wall of a show case, the outer end of said auxiliary strip being passed through the loop of the strip member and bent downwardly in the form of a tongue to engage the front vertical wall of the show case, its free end being secured to the forward edge of the housing member.

1,786,602. THREAD GUIDE FOR SHUTTLES. WILLIAM PINCKNEY CRAIG, Shelby, N. C. Filed May 15, 1930. Serial No. 452,762. 6 Claims. (Cl. 139—218.)

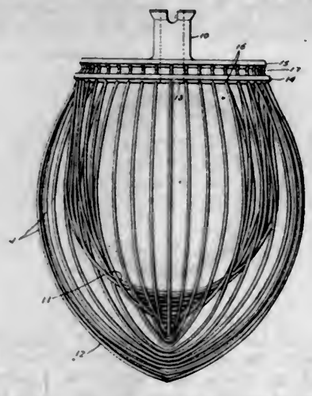


1. A shuttle having a bobbin chamber, a thread guide of flexible material extending transversely across said chamber, and a spring clip for resiliently gripping portions of said thread guide between itself and the side walls of the shuttle.

1,786,603. WHISK WHIP. ALBERT S. DAWSON, Glenville, Conn., assignor to Read Machinery Company, York, Pa., a Corporation of Pennsylvania. Filed Apr. 15, 1930. Serial No. 444,516. 2 Claims. (Cl. 259—144.)

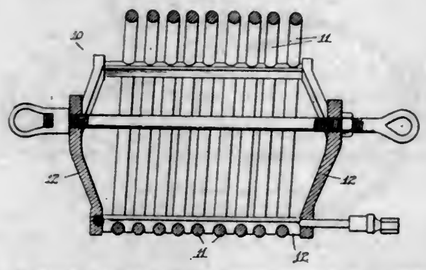
1. A whisk whip comprising a head and a series of bowed wires graduated as to length, each extending diametrically of the head and having its ends secured thereto, the ends of each wire when secured being adjacent to but circumferentially displaced from the ends

of the next shorter wire of the series and having the central portion of the bow thereof extending over the cor-



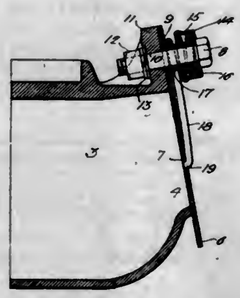
responding portion of the preceding wire, the side portions of each of the bows being radially spaced from the side portions of adjacent bows.

1,786,604. CHOKE COIL. ABRAHAM BERNARD DIBNER, Peekskill, N. Y. Filed Sept. 7, 1929. Serial No. 390,896. 3 Claims. (Cl. 175—356.)



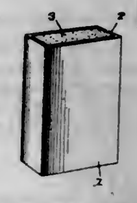
1. A choke coil of the character described, comprising a frame of non-conductive bronze consisting of copper, phosphorus, nickel, and silicon.

1,786,605. AXLE-BOX LID. EDWARD GROVER DURNING, Philadelphia, Pa., assignor to The J. G. Brill Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 19, 1929. Serial No. 341,166. 5 Claims. (Cl. 308—48.)



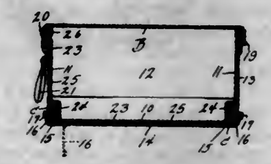
5. In a journal box having an opening therein, a closure for said opening, a pivot bolt carried by the journal box and extending through the closure adjacent the periphery thereof and a single means applying tension to the closure forcing it into engagement with the journal box, said means applying tension to the lid in surrounding relation to the bolt and at the center of the lid.

1,786,606. FROZEN CONFECTION. EDWARD L. GORDON, Pittsburgh, Pa. Filed Sept. 10, 1930. Serial No. 481,043. 6 Claims. (Cl. 99—16.)



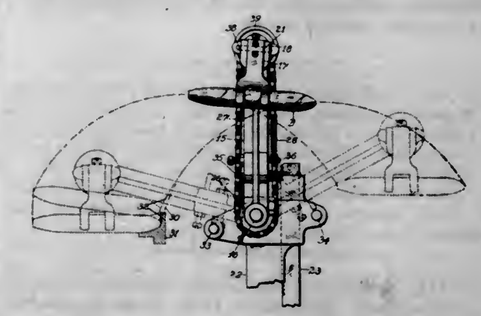
3. A confection comprising a relatively flexible chewing gum casing and a mass of ice cream retained therein.

1,786,607. COMBINATION SUITCASE AND CARD TABLE. FRANK GUNCHICK, Walthill, Nebr. Filed July 27, 1928. Serial No. 295,682. 5 Claims. (Cl. 190—12.)



1. In a combination suit case and table, a receptacle body including side walls, end walls and a bottom wall of relatively thin material, said bottom wall having longitudinal openings separating it from the side walls, a lining of thin sheet material secured to the side walls throughout a portion of their height and spaced therefrom near the bottom wall to form longitudinally extending leg receiving pockets communicating with said longitudinal openings, a reinforcing rib secured to the side walls intermediate the ends thereof between the side walls and the lining, extending from side to side of the body between the bottom wall and the lining, and provided with arched portions following the contour of the pockets and supporting said pockets, a block secured to the body in the interior of an end corner thereof, extending transversely of the body and spaced from the side walls thereof to form sockets, and legs hingedly mounted in said sockets, braced against lateral movement by snug engagement with the ends of the block and with the side walls, and adapted to move through said longitudinal openings.

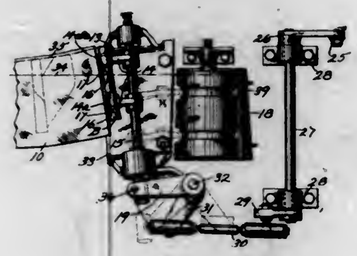
1,786,608. BUNCH TRANSFER FOR CIGAR MACHINES. JOHN F. HALSTEAD, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a Corporation of New Jersey. Filed Apr. 21, 1928. Serial No. 271,878. 10 Claims. (Cl. 131—39.)



1. In a cigar bunch transfer, the combination with an arm, of bunch grippers carried by said arm, means for

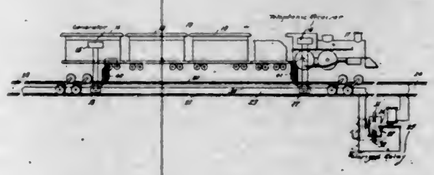
oscillating said arm to cause said grippers to transport a bunch, and spring actuated mechanism carried by the free end of said arm for quickly opening and closing said grippers.

1,786,609. BUNCH TRANSFER FOR CIGAR MACHINES. JOHN FREDRIK HALSTEAD, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a Corporation of New Jersey. Filed Dec. 21, 1928. Serial No. 327,512. 10 Claims. (Cl. 131—39.)



1. A cigar bunch transfer comprising a bunch support, and means for producing a movement of said support which is the resultant of an endwise movement and a traversing movement, to transport a bunch carried by said support from receiving position to a delivery position which is offset from and at an angle to said receiving position.

1,786,610. WIRELESS TRAIN CONTROL. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Aug. 17, 1922. Serial No. 582,342. 18 Claims. (Cl. 246—30.)



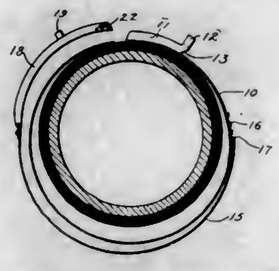
1. In a train control system, a train having a sender near one end for emitting high frequency waves, and a receiver near the other end for receiving the high frequency waves, a road bed for the train divided into blocks, guiding means for the high frequency waves extending along substantially the length of each block, and means controlled by train traffic conditions in blocks in advance of a given block to vary the electrical constants of the respective guiding means.

1,786,611. HALOGENATED SULPHONE PHTHALEINS. WILTON C. HARDEN, Baltimore, Md., assignor, by mesne assignments, to Hynson, Westcott & Dunning, Inc., Baltimore, Md., a Corporation of Maryland. Filed Apr. 4, 1928. Serial No. 267,473. 17 Claims. (Cl. 260—65.)

1. As a new product, a halogenated sulphone phthalein in which halogen is present in the sulfo-benzoic acid nucleus.

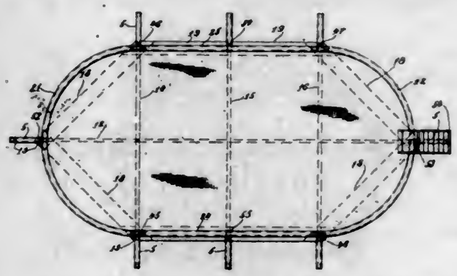
1,786,612. GARDEN-HOSE CLAMP. ARTHUR P. HESLOP, Bridger, Mont. Filed Apr. 8, 1930. Serial No. 442,669. 8 Claims. (Cl. 24—19.)

1. A hose clamp, comprising a metallic band, spaced guides at one end of said band, a bridge connecting the inner ends of the guides, a second band connected to the first-named band at a point intermediate the ends thereof, and a bar connected to the free end of the second band and adapted to extend between said guides and through



the bridge, the bar having a shoulder engageable simultaneously with the bridge by a tool to thereby force the bar through the bridge, and means for maintaining the bar in adjusted positions with relation to the bridge.

1,786,613. SWIMMING POOL. JAMES P. HOOPER, Ruxton, Md., assignor to Wm. E. Hooper & Sons Company, Baltimore, Md., a Corporation of Maryland. Filed June 2, 1928. Serial No. 282,415. 5 Claims. (Cl. 4—177.)



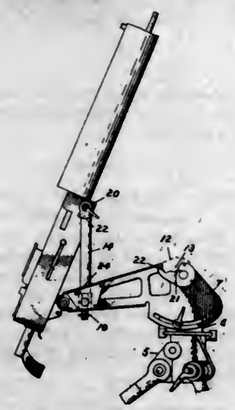
1. A portable swimming pool comprising a fabric bag and a knock-down frame supporting the bag, means for attaching the bag to the frame at the top, said frame comprising uprights in the form of separate trusses, tie rods at the bottom, each separably connecting a pair of opposite trusses, tie plates at the bottom separably connecting the adjacent trusses at an angle to the tie rods and means separably connecting the uprights at the top.

1,786,614. MARKSMANSHIP-TRAINING DEVICE FOR FIREARMS. DUDLEY B. HOWARD, Washington, D. C. Filed Oct. 8, 1929. Serial No. 398,168. 14 Claims. (Cl. 42—1.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)



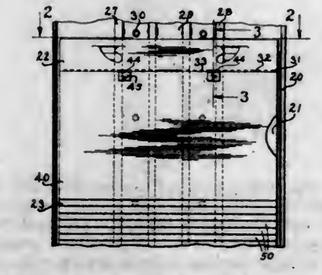
1. The combination with a firearm including a firing member, of means for locking the firing member against firing movement, means for shielding the locking means to conceal the operative condition thereof, and an adjusting member for the locking means, the adjusting member being of a construction and movable mounting to conceal changes in adjustment.

1,786,615. COMBINATION MOUNT FOR MACHINE GUNS. FORREST K. HOWARD, East Falls Church, Va. Filed May 18, 1929. Serial No. 364,256. 8 Claims. (Cl. 89—40.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)



8. A mount for guns including a cradle, a standard pivotally mounted at the rear of the cradle and having a gun-connection at its free end, means on the cradle for supporting the free end of the standard and means for limiting movement of the standard to an upright position.

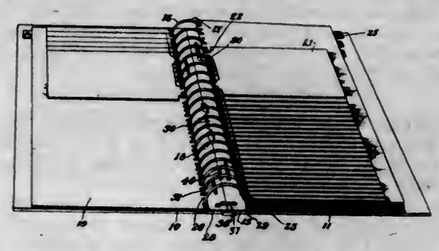
1,786,616. INDEX OR FILE. ALFRED E. HUNT, New Haven, Conn., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed Jan. 19, 1924. Serial No. 687,314. 25 Claims. (Cl. 129—16.7.)



1. A reference card or the like, consisting of a base portion, a flap portion, means hingedly connecting said portions together, said connecting means being integral with both portions and spaced apart whereby elongated openings are provided between said portions, and means adapted to support an additional card, said means passing through one of the openings so formed.

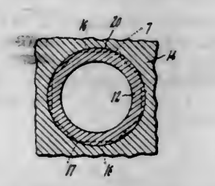
1,786,617. LOOSE-LEAF BOOK. LE ROI E. HUTCHINGS, Buffalo, N. Y., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed June 28, 1926. Serial No. 118,978. 19 Claims. (Cl. 129—9.)

1. In a loose leaf book, adapted to contain record leaves, a pair of series of leaf posts, means for mounting and guiding said series of posts for independent movements in a plane both transversely and longitudinally, the move-



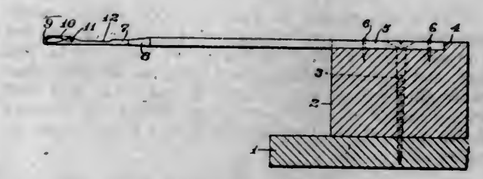
ments of said leaf posts being adapted to permit removal or addition of record leaves and the longitudinal shifting of groups of said leaves relative to other groups of leaves.

1,786,618. SEWING-MACHINE SHUTTLE BOBBIN. HENRY G. JOHNSON, East Hampton, Conn., assignor to Summit Thread Company, East Hampton, Conn., a Corporation of Maine. Filed Dec. 4, 1928. Serial No. 323,757. 1 Claim. (Cl. 112—251.)



A shuttle bobbin composed of a cylindrical cop tube, an annular thread mass wound on said tube, and discoidal heads of sheet material having central orifices receiving the ends of the tube, the heads being held against the annular ends of the thread mass by upset portions of the tube ends, and the margins of said head orifices each including a plurality of tube-gripping portions which exert greater pressure on the tube than other portions alternating with said gripping portions, the diametrical distance between the latter corresponding to the exterior diameter of the tube, whereby said gripping portions will exert a sufficient gripping pressure on portions of the periphery of the tube to prevent rotation of the tube and thread mass relative to the heads.

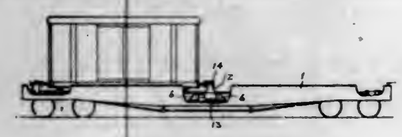
1,786,619. DEVICE FOR USE IN THE MANUFACTURE OF BOOTS OR SHOES. WILLIAM A. JOHNSON, Manchester, N. H., assignor to Woodbury Shoe Mfg. Co., Derry, N. H., a Corporation of New Hampshire. Filed June 6, 1929. Serial No. 368,838. 1 Claim. (Cl. 223—37.)



A needle for the purpose set forth comprising an elongated body portion of uniform cross sectional shape and area throughout its effective length, a relatively short extension of reduced cross sectional area at an end of said body portion, a connecting portion joining said extension with said body portion, said connecting portion flaring from said extension toward said body portion and having the same sectional shape and area at the points where

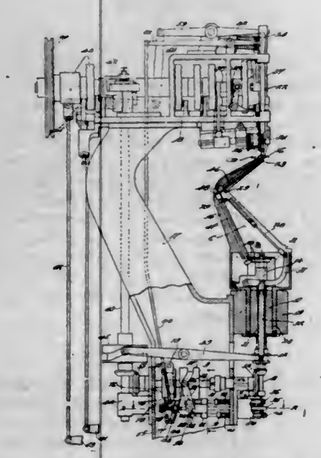
it joins said extension and said body portion as said extension and said body portion at said joints, respectively, and means carried by said extension for attaching a strip thereto, the maximum transverse dimension of said extension and the attaching means carried thereby being no greater than the minimum transverse dimension of said body portion.

1,786,620. CENTER JACK FOR CONTAINER CARS. WILLIAM PLATTS KELLETT, New York, N. Y. Filed Sept. 14, 1929. Serial No. 392,554. 6 Claims. (Cl. 105—366.)



1. A jack for container cars having buffers at the ends, comprising a buffer member pivotally mounted and adjustable longitudinally intermediate of the length of the car.

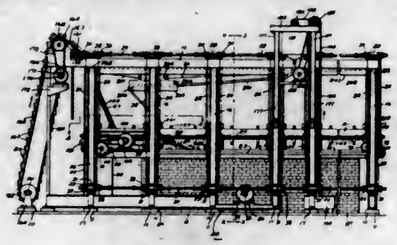
1,786,621. THREAD-MEASURING MECHANISM FOR SHOE-SEWING MACHINES. OSCAR L. LAWSON, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 26, 1926. Serial No. 111,859. 8 Claims. (Cl. 112—58.)



2. In a shoe-sewing machine, in combination, a work-engaging member, a thread pull-off member, a cam having a closed path, a lever having a cam follower in said path, and a slide guided on said lever for movement longitudinally thereof and operatively connected with said work-engaging member, said slide having an inclined groove, and said pull-off member having a projection engaging said groove.

1,786,622. BRICKLAYING MACHINE. FRANK C. LAYER, Algonquin, Ill. Filed Mar. 6, 1929. Serial No. 344,725. 4 Claims. (Cl. 72—129.)

2. In an improved brick laying machine the combination of a framework, a second framework slidably mounted thereon and movable vertically with respect thereto, a carriage mounted for reciprocating movement on said second framework, an endless conveyor mounted in the second framework and associated with the carriage, and

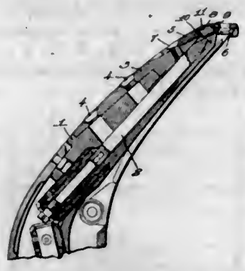


means for maintaining the upper reach of the endless conveyor stationary during the reciprocating movement of the carriage in one direction only.

1,786,623. WARNING MEANS FOR POISON GASES. HANS LEHRECKE, Frankfort-on-the-Main, Germany, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y., a Corporation of Delaware. Filed June 24, 1926, Serial No. 118,378, and in Austria July 18, 1925. 7 Claims. (Cl. 167—35.)

5. A composition of matter for fumigating, comprising hydrocyanic acid and chloropicrin in such proportion as to constitute when vaporized a warning of a toxic concentration of hydrocyanic acid.

1,786,624. HORN FOR SHOE-SEWING MACHINES. BERNARD T. LEVEQUE, Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 10, 1928. Serial No. 305,000. 1 Claim. (Cl. 112—62.)

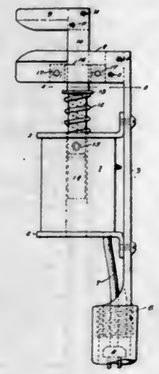


A work supporting horn for sewing machines of the McKay type having a tip comprising a whirl supporting block, a rotary whirl journaled therein, provided with gear teeth, a cap piece secured to the block and extending over the whirl, a whirl driving shaft provided with gear teeth, and a gear intermediate the shaft and whirl located between the cap piece and block, said gear consisting of a solid piece of material and being provided with an imperforate projecting hub journaled in the cap piece.

1,786,625. ELECTRIC PRUNING DEVICE. LINN OLAF B. LINDSTROM and DAVID G. SALA, San Francisco, Calif. Filed Aug. 12, 1929. Serial No. 385,371. 1 Claim. (Cl. 30—11.)

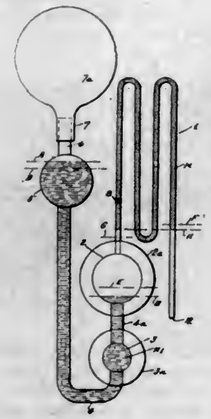
In an electric pruning device, the combination of an electric solenoid and pruning cutters comprising a supporting frame flared out to a hollow threaded pipe connection to admit the electrical conductor, a solenoid secured to said frame, a detachable cutter blade secured to said frame, a vertically reciprocable operating stem

coupled to the solenoid plunger and passing through a guide on the blade secured to the frame, a detachable cutter blade secured to said operating stem, and a spiral



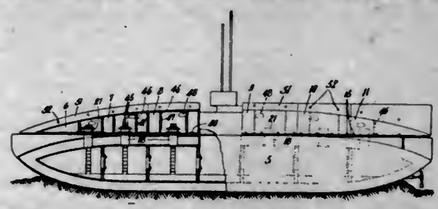
spring surrounding said operating stem between the top of the solenoid and the stationary blade secured to said frame, to hold the blades in an open position.

1,786,626. METHOD AND APPARATUS FOR FEEDING GASES OR VAPORS. RALPH W. LOHMAN, Los Angeles, Calif. Filed Nov. 1, 1926. Serial No. 145,670. 9 Claims. (Cl. 176—125.)



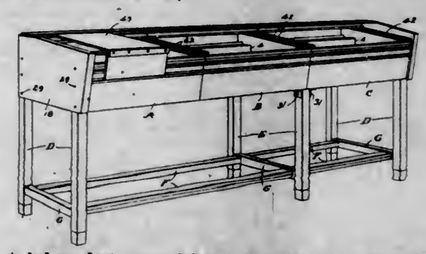
1. Apparatus for feeding of a gas or vapor comprising a tube having a plurality of vertical legs, a column of liquid balanced in said tube in its legs, a discharge tube connecting with one leg of the first mentioned tube at a point normally covered by the liquid column, said discharge tube having therein a plug of a material impermeable to liquid but permeable to gas, and said discharge tube being located at a point near the end of the liquid column in said mentioned leg, a gas containing vessel communicating with the end of said mentioned leg and adapted to hold a charge of gas which comes into contact with the end of the liquid column in said leg, and means for applying varying pressures to said gas in said vessel to move said liquid column in said leg to a point where said discharge tube is uncovered, said means for applying varying pressure to the gas in said vessel, comprising a U-tube connecting with said vessel, a column of liquid standing in said U-tube, and means for applying varying pressures to the end of said column of liquid.

1,786,627. SUBMARINE LIFE-SAVING DEVICE. GEORGES MEISTER, New York, N. Y. Filed Mar. 17, 1928. Serial No. 262,570. 2 Claims. (Cl. 114—16.7.)



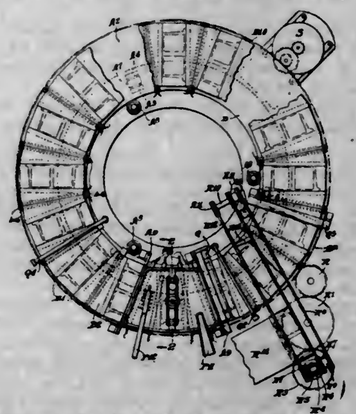
1. The combination with a submarine of a lifeboat secured thereon in inverted position and detachable therefrom, tubular members carried by said lifeboat and said submarine arranged to interengage to form a passageway between said submarine and said lifeboat together with means for closing one tubular member, air tubes extending through said closure member and a door through the side of said lifeboat whereby the lifeboat can be used as a trap to permit a diver to move to and from the submarine.

1,786,628. CARD-RECORD DESK. ENOCH OHNSTRAND, Mohawk, N. Y., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed Dec. 5, 1924. Serial No. 754,142. 8 Claims. (Cl. 45—6.)



1. A ledger desk comprising a plurality of card holding units, each unit comprising an open-top receptacle, reenforcing rails extending across the front and rear of the receptacle, rigidly connecting elements on certain of said rails arranged to extend into an opening in the adjacent receptacles and overlap against a rail therein, and means for detachably connecting the abutting portions of said rails.

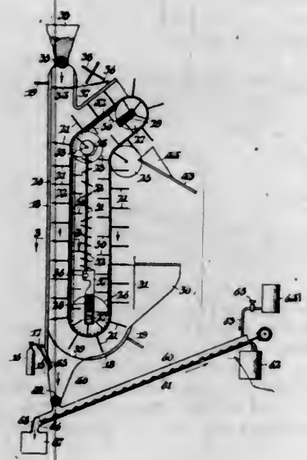
1,786,629. CASTING MACHINE FOR BATTERY GRIDS. DAVID PEPPER, Philadelphia, Pa. Filed June 4, 1929. Serial No. 368,212. 14 Claims. (Cl. 22—57.)



1. An open faced mold for casing electric battery grids consisting of a frame, a system of primary ribs and

a system of secondary ribs, said mold having a frame, a body portion located within said frame and made up of a series of plates inclined to the plane of the open face of the mold and alternately relatively movable with respect to adjacent plates, said plates having formed in their upper ends a series of vertical mold cavities which cavities extend transversely across the series of adjacent plates for casting the primary ribs of the grid and said plates being so conformed that when the mold is closed there is formed between adjacent plates mold cavities opening at their ends into the cavities provided for forming the primary ribs for forming a series of secondary ribs of the grid, the shape of the mold cavities for the secondary ribs and the thickness and inclination of the series of plates being such that when the mold is opened by moving the plates relatively to each other the casting can be freely lifted from the mold.

1,786,630. PERFUMERY. EBENEZER EMMET REID, Baltimore, Md. Filed Oct. 31, 1922. Serial No. 598,094. 14 Claims. (Cl. 87—28.)



1. The process of abstracting odors from flowers which comprises exposing divided adsorbent mineral gel in the presence of the flowers, thereby adsorbing the vapourous flower odors in the gel.

14. A preparation of the character described, comprising adsorbent silica gel impregnated with vaporous flower odors.

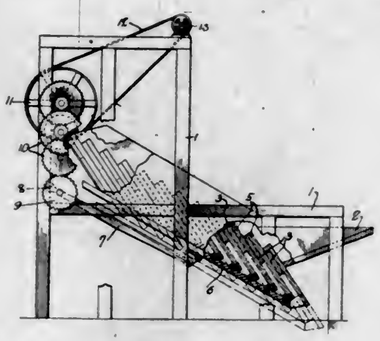
1,786,631. SUPPORTING POLE FOR ELECTRICAL CONDUCTORS. RALPH C. ROE, Englewood, N. J., assignor of one-half to Stephen W. Borden, Summit, N. J. Filed Apr. 25, 1928. Serial No. 272,841. 2 Claims. (Cl. 189—27.)

1. A pole, for supporting the outdoor electrical conductors of an electrical distribution system, which includes two or more exterior, hollow, compression members assembled end to end; insulating blocks between the compression members and extending into the interior of the pole; metal plates on the exposed ends of the two terminal compression members; tension members located inside the compression members, passing through the insulating blocks and attaching to the plates at either end of the assembly, each tension member containing



an insulating portion located between the portions of the tension member which are attached to the respective end plates.

1,786,632. FISH-CUTTING MACHINE. ARTHUR R. ROGERS, Jonesport, Me. Filed Aug. 21, 1929. Serial No. 387,427. 8 Claims. (Cl. 17—4.)

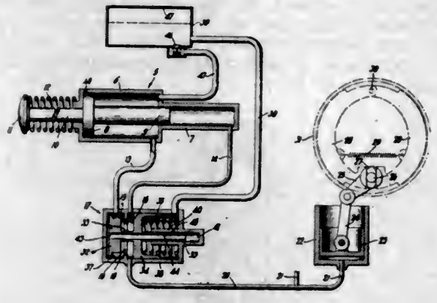


1. In a machine of the class described fish holding means, fish cutting means at a higher level than the holding means, stationary steps leading from the holding means to the cutting means, and means mounted for reciprocation between the steps for transferring fish from one stationary step to the other successively to elevate it from the holding means to the cutting means.

1,786,633. HYDRAULIC BRAKE. SAMUEL W. RUSHMORE, Plainfield, N. J. Filed Aug. 17, 1927, Serial No. 213,490. Renewed Sept. 15, 1930. 2 Claims. (Cl. 188—152.)

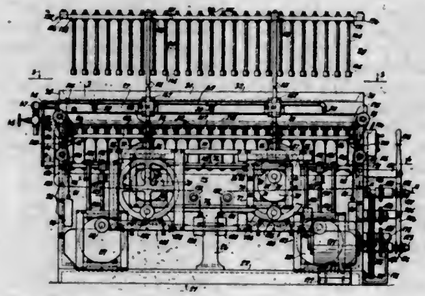
1. A fluid braking system, including brake operating means, a pump including a low pressure cylinder and a high pressure cylinder, a reservoir from which the fluid is supplied to the pump, a valve, ducts connecting the low pressure and high pressure cylinders with the valve through which the fluid may be supplied to the valve, a duct through which the fluid may be supplied from the valve to the brake operating means, said valve having two chambers, one connected with the duct of the low pressure, the other connected with the duct of the high pressure cylinder, and a valve head operable by said

pump when a predetermined pressure is reached to separate the high pressure chamber from the low pressure chamber so that the brake operating means may be under the influence of the high pressure cylinder only, and a duct to return the fluid from the low pressure chamber to the reservoir to relieve the low pressure cylinder, and a valve stem; said valve having a port which is normally



closed by said stem, and said stem having an aperture to register with said port when the valve is operated to establish communication of the low pressure cylinder with the reservoir so as to relieve the low pressure cylinder of back pressure subsequent to the closing of the valve and while the high pressure cylinder is acting on the brake operating mechanism.

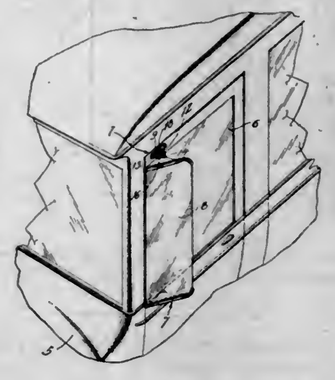
1,786,634. AUTOMATIC NIGHT-CANDLE-MOLDING MACHINE. ALFONSO SCRITTA, Brooklyn, N. Y. Filed Aug. 31, 1928. Serial No. 303,196. 5 Claims. (Cl. 18—27.)



2. A machine for molding candles, or the like, including a mold, the mold having a movable bottom closure, resilient means for moving the closure toward the mold, a core pin movable through said bottom closure and axially into the mold, means to strike a wick clip onto the end of the candle at the upper end of the mold, the last mentioned means causing the candle to momentarily depress said bottom closure against the force of the resilient means, and loosening the candle in the mold, said resilient means returning the closure member and candle upward, and means to move the bottom closure away from the mold to permit the candle to be removed therefrom.

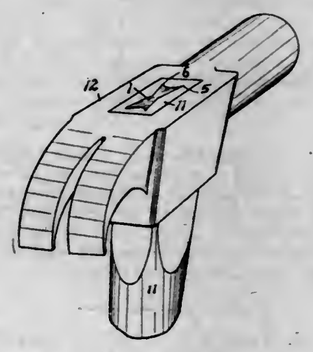
1,786,635. CLOSED-CAR WIND-WING BRACKET. WILLIAM E. SHEHAN and GODFREY BELL, Los Angeles, Calif. Filed July 17, 1928. Serial No. 293,426. 1 Claim. (Cl. 296—84.)

In a wind deflector for a vehicle, the combination of a pair of shield holding members adapted to be secured to the vehicle body in spaced relation, one of said holding members comprising a T shape attachment member with a leg, a supporting bracket having a leg and an outstanding ledge, said legs being provided with bolt holes, one of said bolt holes being elongated, a bolt



adjustably securing said legs together so as to adjustably position the ledge laterally of said supporting bracket, and shield carrier members pivotally secured to said supporting bracket at said ledge and to the other holding member.

1,786,636. WEDGE FOR TOOL HANDLES. JACOB J. SPRUNGER, Fort Wayne, Ind. Filed Nov. 26, 1928. Serial No. 321,783. 1 Claim. (Cl. 306—33.)

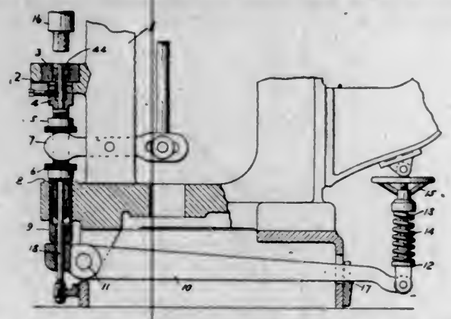


A wedge having a sharp edge at one end, the front, back and sides of said wedge extending divergently from said sharp edge and each having formed therein a longitudinally disposed chasm, the chasms in the front and back being spaced from said sharp edge and extending laterally at their upper ends to the corresponding sides of the wedge, and the chasms in the sides extending throughout the entire length of the wedge.

1,786,637. COMPRESSING MACHINE. FRANCIS J. STOKES, Philadelphia, Pa. Filed Sept. 12, 1929. Serial No. 391,995. 3 Claims. (Cl. 107—18.)

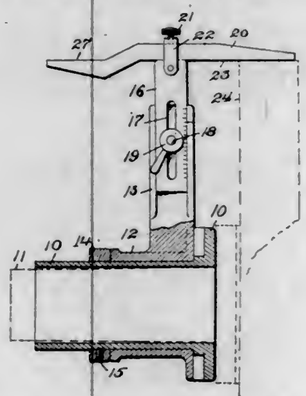
1. In a compressing machine for tablets and the like a fixed frame, a sleeve mounted to slide in respect to the frame, a bottom punch holder mounted to slide in

respect to the frame and sleeve, means for adjusting the punch holder in respect to the sleeve, and means arranged



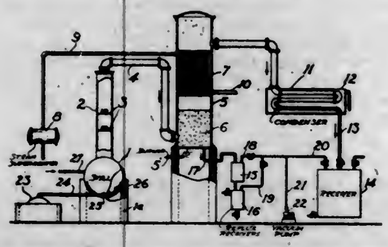
to position the sleeve and hold it against normal compression and adapted to yield under abnormal compression.

1,786,638. GAUGE FOR ADJUSTING BRAKE LININGS. ALBERT H. WADELL, Newark, N. J. Filed Apr. 28, 1928. Serial No. 273,448. 3 Claims. (Cl. 33—180.)



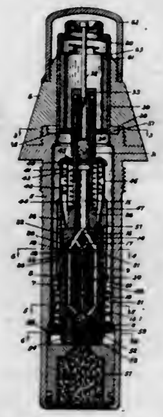
1. A gauge for adjusting brake linings comprising an arm, a hub for readily mounting the arm in order that it can rotate on an axle, an adjustable extension on the arm, and a finger secured to the extension, the finger having one end with a gauging edge at the bottom and having the other end with a gauging edge at the top, the two edges being substantially in line.

1,786,639. PROCESS FOR VACUUM DISTILLATION OF HYDROCARBON OILS. HARRY C. WIESS, Houston, Tex., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed Sept. 25, 1925. Serial No. 58,501. 6 Claims. (Cl. 196—77.)



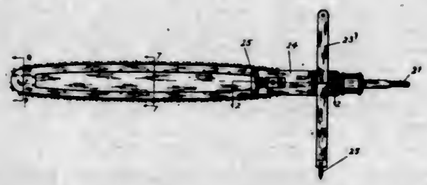
1. Process of distilling hydrocarbon oil, comprising heating the oil to a distillation temperature, injecting into the oil a light hydrocarbon, liquid under ordinary conditions, and having a vapor pressure less than that of water at the corresponding temperature of condensation, and reducing the absolute pressure upon the oil undergoing distillation to 50 mm. of mercury or less.

1,786,640. COMBINATION FUSE FOR PROJECTILES. HERMANN H. ZORNIG, Newhall, Iowa, and ALFRED F. TEITSCHEID, Wharton, N. J. Filed Aug. 13, 1928. Serial No. 299,382. 3 Claims. (Cl. 102—39.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)



1. A fuse including a tubular body, a head attached to the body, a casing secured in the rear portion of the body and having opposed longitudinal passages, a carrier fixed in the casing and having converging passages in communication with the passages in the casing, an axial explosive train in the carrier including a primer, a delay element and a detonator, the latter positioned between the converging passages, a flash tube mounted forwardly of the casing and having communication with the primer and the passages in the casing, a shutter interposed between the flash tube and casing for closing the passages in the casing, a plunger having a squared front portion mounted on the flash tube, a primer detonator in the plunger, means operable during flight for arming the plunger, a sleeve rotatably secured to the casing and connected to the shutter, fingers on the sleeve restraining movement of the flash tube and engaged with the plunger for rotary movement therewith, a setting disk fitting on the squared portion of the plunger, a setting sleeve rotatably mounted in the fuse head and engaging the setting disk and a striker mounted in the setting sleeve.

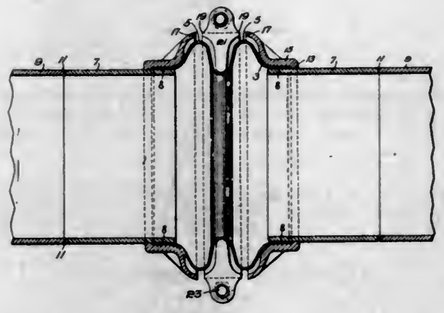
1,786,641. CHAIN SAW. KNUTE BERG, Spokane, Wash. Filed Sept. 4, 1928. Serial No. 303,845. 4 Claims. (Cl. 143—32.)



1. The combination in a sawing appliance with a supporting structure, of a vertically movable cross head and means for securing the cross-head in vertically adjusted position, a tubular coupling member supported in the cross head and adjustable for turning on its longitudinal axis,

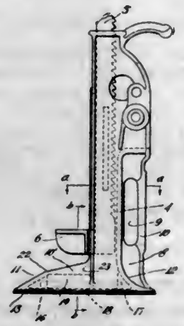
a motor fixed to the member at one side of the structure and a transmission housing fixed to the member at the other side of the housing, driving mechanism from the motor operating in the member and transmission mechanism in the housing, a saw frame supported on the housing, and an endless chain saw supported in the saw frame.

1,786,642. EXPANSION JOINT. DAVIS S. BOYDEN, Allston, Mass., assignor to E. B. Badger & Sons Company, Boston, Mass., a Corporation of Massachusetts. Filed May 15, 1926. Serial No. 109,390. 3 Claims. (Cl. 285—90.)



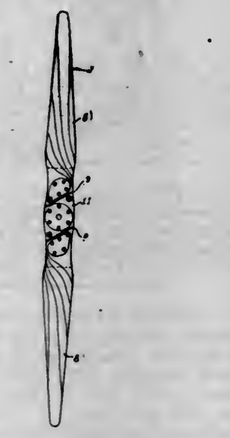
1. An expansion joint having an expansion member comprising a corrugated sleeve with cylindrical unflanged ends and separate tubular sleeves fitting within and projecting one from each opposite end of the corrugated sleeve and directly and integrally joined thereto as by brazing to form an integrally united expansion unit, and separate limiting devices for said expansion unit adapted to contact with each other when the joint is contracted but to separate when the joint is expanded, the same including for opposite ends of the expansion unit separate stop members movable relatively to each other on contraction and expansion of the joint, said stop members being concentric with each other and with the adjoining tubular sleeve and with the adjoining cylindrical end of the corrugated sleeve and fitting outside the latter and related to the tubular sleeve to be held thereby against endwise displacement when the joint is contracted independently of said corrugated sleeve.

1,786,643. LIFTING JACK. HAROLD W. CLARK, Alliance, Ohio, assignor to The Buckeye Jack Manufacturing Company, Alliance, Ohio. Filed Aug. 19, 1927. Serial No. 214,054. 1 Claim. (Cl. 254—1.)



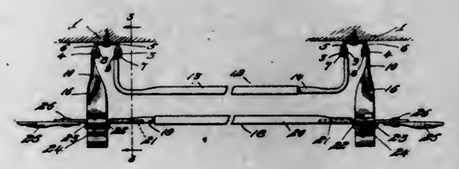
A frame for a lifting jack comprising an oblong base of cored out section, a single web bottom plate with an opening formed therein, an oblique front wall, a toe formed by the junction of the oblique front wall and the bottom plate, and a rib formed within the toe and integral with the bottom plate, the said rib being located approximately in the center of the toe and in the plane of the opening in the bottom plate.

1,786,644. SCREW PROPELLER. DAVID R. DAVIS, Los Angeles, Calif. Filed Mar. 28, 1927. Serial No. 178,902. 6 Claims. (Cl. 170—161.)



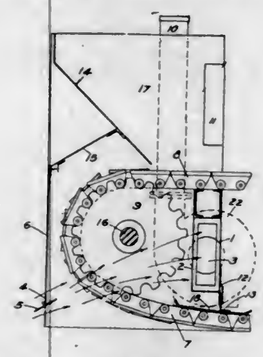
1. A screw propeller comprising a hub portion, relatively rigid blade portions spaced from the hub portion, and flexible plates jointing the hub portion with said blade portions, the adjacent edges of the hub portion and blade portions at the joints extending asiant outwardly toward the leading edges of the blades so that in part the centrifugal force of the rotating-blade portions and in part the resistance of the plates to bending counteract the air pressure tending to simultaneously reduce the pitch angle of said blade portions to zero.

1,786,645. CURTAIN-ROD STRUCTURE. GEORGE W. DOVER, Providence, R. I., assignor to Dovercraft Company, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Mar. 1, 1930. Serial No. 432,470. 6 Claims. (Cl. 156—22.)



4. In a curtain rod structure, a composite curtain rod formed of telescoping sections, each of which frictionally engages a flat end section, the flat end sections being each provided with a portion offset laterally from the main portion thereof, and a bracket comprising a base portion and an extension arm secured to the base portion, said arm being provided with a slot for receiving the offset portion of said end section.

1,786,646. CHAIN OR TRAVELING GRATE STOKER. WILLIAM M. DUNCAN, Alton, Ill. Filed Nov. 29, 1927. Serial No. 236,526. 5 Claims. (Cl. 110—40.)

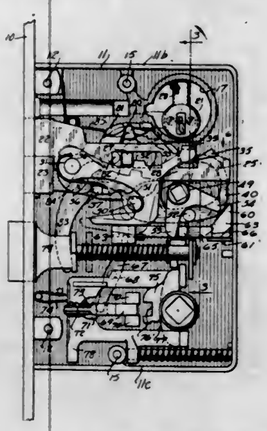


1. In a traveling chain grate stoker, upper and lower strands of grates and a suction chamber between the strands provided with an opening for the admission of air.

1,786,647. PROCESS OF PREPARING VINYL ESTERS OF ORGANIC ACIDS. HARRY B. DYKSTRA and CARYL SLY, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 22, 1928. Serial No. 307,777. 4 Claims. (Cl. 260—106.)

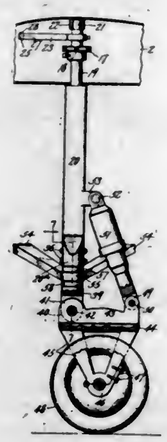
1. The method of preparing vinyl esters of organic acids in improved yield, which comprises passing an excess of acetylene through an agitated charge of an organic acid heated to reaction temperature in contact with a catalyst and an aliphatic hydrocarbon distillate having a boiling point above that of the acid used.

1,786,648. LOCK. SAMUEL P. GOLDBERG, Brooklyn, N. Y., assignor to Chantrell Lock Corp., a Corporation of New York. Filed Oct. 4, 1929. Serial No. 397,235. 23 Claims. (Cl. 70—92.)



2. A lock for use with a room key or an emergency key and having a two part dead bolt, a tumbler for each dead bolt part, a double sleeve key operable cylinder, each sleeve having a cam cooperative with one cam only, the room-key operating both cams for simultaneously protracting and retracting both dead bolt parts, and a thumb turn mechanism operable on both tumblers for retracting both dead bolt parts and on only one tumbler for protracting and retracting the corresponding dead bolt part only, the other cam being operable by the emergency-key for retracting and protracting said dead bolt part, whereby it may be retracted after having been protracted by the thumb turn.

1,786,649. AIRPLANE LANDING DEVICE. AUGUSTO C. GONZALEZ, Reno, Nev. Filed Apr. 26, 1928. Serial No. 273,106. 10 Claims. (Cl. 244—2.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)



1. A device of the kind described, comprising two landing gear frames, said landing gear frames being connected to a fuselage, each frame being formed with a bearing portion, said bearing portion supporting the lower end of a revolvable truss, and said revolvable truss having pivotally mounted thereon, yieldable wheel supporting frames revolving therewith.

1,786,650. TREATING HYDROCARBON OIL. JOHN M. GOODWIN, Port Arthur, Tex., assignor to The Texas Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 16, 1928. Serial No. 262,318. 5 Claims. (Cl. 196—40.)

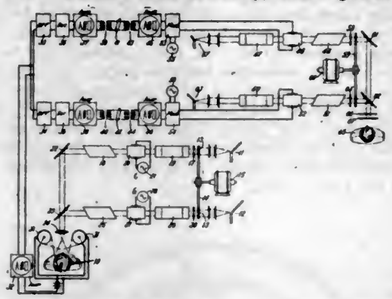
1. The process of stabilizing and purifying petroleum naphtha which comprises contacting the oil with a gas comprising hydrogen sulfide, whereby a relatively small quantity of hydrogen sulfide is absorbed by the oil, and then treating the oil with concentrated sulfuric acid.

1,786,651. PROCESS OF MANUFACTURING A PHOSPHATE FOR FERTILIZING. ERNST HAMMEL, Berlin, Germany, assignor to Max Rauch, Berlin, Germany. Filed Dec. 23, 1926, Serial No. 156,755, and in Germany Aug. 19, 1926. 1 Claim. (Cl. 71—7.)

A method of making a fertilizer, consisting in producing albumin enzymes by peptonizing bone meal by disintegration with an acid, in adding a potassium fertilizer, in concentrating said albumin enzymes to rubber like consistency, in neutralizing the same with basic ammonia, and in finally drying the product.

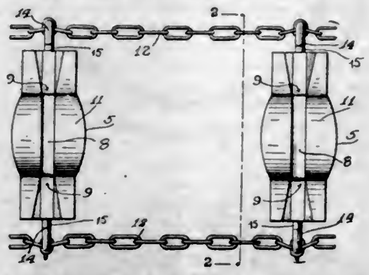
1,786,652. ELECTROOPTICAL SYSTEM. RALPH V. L. HARTLEY, South Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 16, 1928. Serial No. 312,761. 19 Claims. (Cl. 178—6.)

1. An electro-optical image producing system comprising means for successively scanning groups of elemental areas of a field of view an image of which is to be produced, each group comprising two separate elemental areas which are scanned simultaneously, and light-sensitive



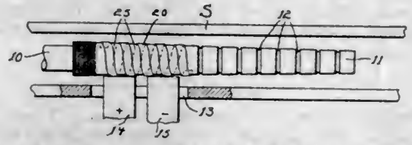
means for producing a single photoelectric current having a component corresponding to the tone values of each of said simultaneously scanned elemental areas.

1,786,653. NONSKID DEVICE. GEORGE A. HATHORNE, Gloversville, N. Y. Filed Feb. 28, 1928. Serial No. 257,757. 2 Claims. (Cl. 152—14.)



2. As a new article of manufacture, a tire shoe for antiskid devices, consisting of a plate having a concave inner surface to fit a tire and having an outer face formed with a central longitudinal portion of convex form terminating in end extensions having central converging recesses, the convex surface of the plate being formed with a groove communicating with said recesses.

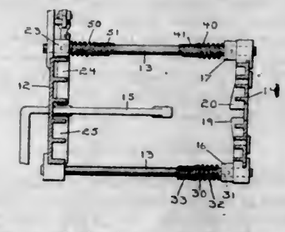
1,786,654. BOBBIN FOR ELECTRICAL FEELERS. ELBRIDGE R. HOLMES, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed July 22, 1929. Serial No. 380,147. 7 Claims. (Cl. 139—289.)



1. A weft bobbin to cooperate with a pair of oppositely charged electrodes of an electrical weft detector, said bobbin having wound thereon a metallic tape formed of metallic yarns interwoven with yarns of textile fibre, and an adhesive to attach the yarns of textile fibre to the bobbin.

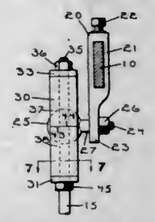
1,786,655. BOBBIN SUPPORT FOR WEFT-REPLENISHING LOOMS. ELBRIDGE R. HOLMES, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 10, 1929. Serial No. 384,853. 9 Claims. (Cl. 139—251.)

1. In a weft replenishing mechanism having a rod, a bobbin support pivotally mounted with respect to the magazine, and a coil spring surrounding the rod and having coils of two different diameters, the larger coils being operatively connected to the support to yieldingly



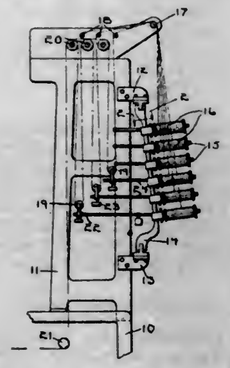
resist movement of the latter at the time of transfer, and the smaller coils fitting tightly over the tie rod to grip the same and to resist movement of the spring relatively to the rod at the time of transfer.

1,786,656. CONNECTING MECHANISM FOR JACQUARD LEVERS. ELBRIDGE R. HOLMES, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 27, 1929. Serial No. 388,842. 5 Claims. (Cl. 139—59.)



1. In driving mechanism for a Jacquard loom having a driven lever element and a reciprocating driving rod element, a member secured in longitudinal adjusted position along one element, a ball secured thereto, and a socket member for the ball carried by the other element, said socket member comprising a pair of lubricant impregnated blocks, a pair of plates between which the blocks lie, and retaining means extending through both plates and blocks to draw the plates together and hold the blocks in position.

1,786,657. LET-OFF FOR NARROW-WARE LOOMS. ELBRIDGE R. HOLMES, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 5, 1929. Serial No. 411,892. 7 Claims. (Cl. 139—103.)



1. In a let-off for a narrow ware loom having a warp spool and a disk movable therewith and a friction ele-

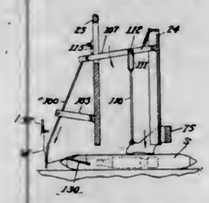
ment to cooperate with the disk, a fixed stud closely adjacent the disk, a lever pivoted to the stud, a second lever pivoted on the stud and adapted to have operative connection with the first named lever when the latter is in low position, friction means carried by the second lever to engage the disk and force the latter against the first named friction when the first lever is down, and means to lift the first named lever as the warp is consumed to break the engagement between the levers and thereby lessen the pressure exerted by the friction means.

1,786,658. PLEASURE BUOY FOR SEASIDE RESORTS. MAX WILHELM IBEN, Altona, Germany. Filed July 11, 1929. Serial No. 377,582. 5 Claims. (Cl. 272—32.)



5. A pleasure buoy including a guide, means for supporting the guide in substantially vertical position in the body of water, and a buoyant body mounted on the guide and capable of free vertical and free rotary movement with respect to said guide, said body being of hollow form with its upper surface arranged as a platform.

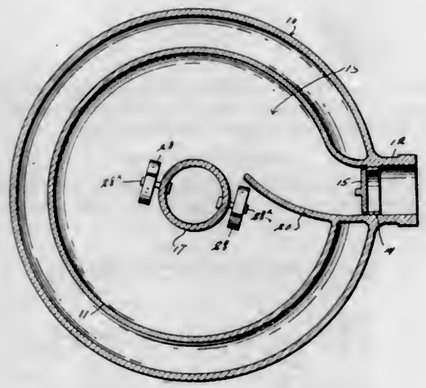
1,786,659. WEFT-REPLENISHING LOOM. VICTOR H. JENNINGS, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 22, 1928. Serial No. 321,203. 18 Claims. (Cl. 139—259.)

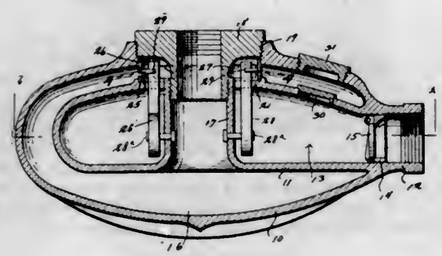


1. In a weft replenishing loom, a shuttle having a self-threading eye disposed at the end of the shuttle toward the adjacent cloth selvage when the shuttle is at the magazine side of the loom, a lay, a weft carrier magazine, means to transfer a selected weft carrier from said magazine to a shuttle on said lay, and automatic means to completely thread the replenished shuttle before said shuttle completes its initial flight after weft replenishment.

1,786,660. HOT-WATER AND STEAM GENERATOR. AUGUST M. KOLSTAD, Detroit, Mich. Filed May 9, 1929. Serial No. 361,704. 7 Claims. (Cl. 122—20.)

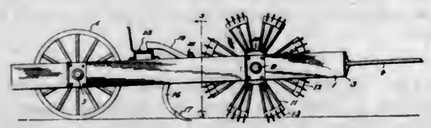
4. A water heater of the character described, comprising an inner chamber and an outer chamber spaced from each other, the inner chamber having an inlet at one end adapted to be connected to a source of supply, the inner chamber opening into the outer chamber, a rotatably shiftable valve controlling the passage of water from the inner chamber to the outer chamber, and thermostatic elements disposed within the inner chamber and actuating the valve to cause the valve to permit an increase in the flow of water within the inner chamber when the water within the inner chamber has its temperature raised and vice versa, the top wall of the inner chamber being provided with a safety blow-off plug and the top wall of the outer chamber having a removable inspection plug above the blow-off plug.





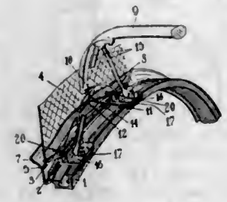
7. A water heater comprising the outer chamber and an inner chamber, the inner chamber having a cold water inlet and an outlet into the outer chamber and the outer chamber having an outlet, and means causing the water passing from the inner chamber to the outer chamber to circulate around the inner chamber before it can pass out through the outer chamber.

1,786,661. COTTON CHOPPER. JAMES A. LAIRD, Huntington, Tex., assignor of ten per cent to R. A. Courtney, Lufkin, Tex. Filed July 2, 1929. Serial No. 375,431. 2 Claims. (Cl. 97—22.)



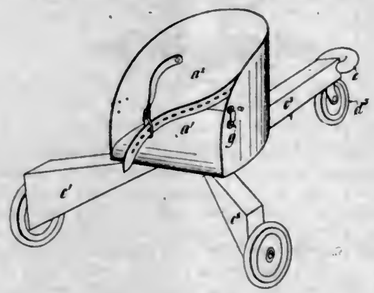
1. A cotton chopper comprising a frame, ground wheels supporting the rear end of the frame, a topping wheel supporting the front end of the frame and rotated by its tractive engagement with the ground, an inner frame between the sides of which the chopping wheel is mounted, and coverers pivotally mounted between the inner and outer frames and arranged to travel along the ground at the rear of the chopping wheel.

1,786,662. HOOD FOR AUTOMOBILES AND OTHER VEHICLES. FELIX JOHN LEATHER, London, England. Filed Mar. 8, 1928, Serial No. 260,205, and in Great Britain Apr. 29, 1927. 3 Claims. (Cl. 296—105.)



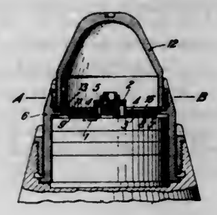
1. A hood for automobiles and other vehicles of the kind comprising cant rails secured to the body of the vehicle and extending from the front to the rear thereof, a plurality of hood sticks, shoes connected with said hood sticks and engaged with and slidable along said cant rails, a flexible covering associated with the hood sticks, endless flexible members connected to the hood sticks for use in raising and lowering the hood, grooves in the cant rails, means for assisting the engagement of the edge of the flexible covering in said grooves in raising the hood and means connecting the shoes associated with one hood stick to the shoes associated with an adjacent hood stick adapted to force, when lowering the hood, the flexible covering outward from between the hood sticks and assist in disengaging the edges of the flexible covering from the grooves.

1,786,663. BABY CAR OR CARRIAGE. JOHN WILLIAM LEEK, Sale, England. Filed Jan. 4, 1929, Serial No. 330,277, and in Great Britain Sept. 18, 1928. 3 Claims. (Cl. 155—22.)



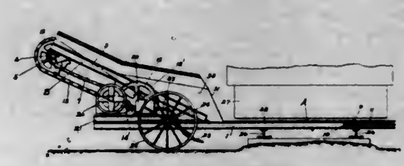
1. A baby car or the like comprising a bucket-shaped chair, a single swivelling wheel arranged centrally behind the chair, two arms extending forwardly, one at each side of the chair, a non-swivelling wheel mounted on each arm, the said wheels being coaxial with each other and disposed so as to be on each side of an open and free space between them and in front of the chair for the occupant's legs, within which the occupant may propel the chair by his own feet from between the non-swivelling wheels and by crossing their common axis.

1,786,664. MECHANICAL TIME FUSE WITH CLOCKWORK. PAUL LIEBERGELD, Bad Thal, Germany. Filed Feb. 20, 1930. Serial No. 430,051, and in Germany Dec. 8, 1927. 4 Claims. (Cl. 102—36.)



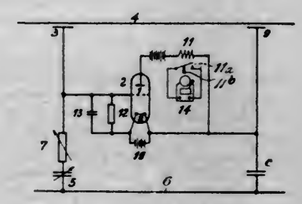
1. A mechanical time fuse having clockwork, an indicator rotated by such clockwork, and timing rings for controlling the active position of said indicator with respect to the means for firing said fuse, and comprising means for varying the relative position of said rings.

1,786,665. PORTABLE UNLOADING MACHINE. WILLIAM K. LIGGETT, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed June 8, 1923. Serial No. 644,169. 5 Claims. (Cl. 198—53.)



1. In a machine of the class described, the combination of a conveyor trough, means to propel material along said trough, and horizontally disposed rearwardly diverging material supporting shields extending inwardly over said trough in close relation to said propelling means.

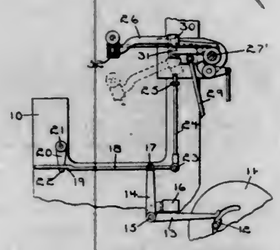
1,786,666. MEANS FOR INDICATING CURRENT IMPULSES. OTTO LOHAUS, Berlin-Schoneberg, Germany, assignor to Aktiengesellschaft Mix and Genest, Berlin-Schoneberg, Germany. Filed Sept. 30, 1926, Serial No. 138,677, and in Germany June 30, 1925. 2 Claims. (Cl. 179—171.)



1. A system for detecting current impulses present in an electrical conductor which comprises means for receiving

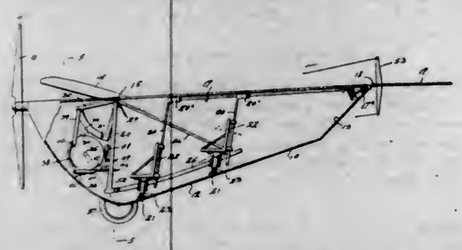
a momentary current impulse and conveying the same to the grid of an electron tube, the anode circuit of which is arranged to control an indicator, and means arranged in the grid circuit so that the momentary impulse received thereby causes a prolonged accumulation of electrons upon the grid which varies the electrical properties of the anode circuit and causes the said indicator to operate for at least a correspondingly prolonged period.

1,786,667. CLUTCH FOR AXMINSTER-LOOM TUBE FRAMES. JOHN LYLE, Philadelphia, Pa., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 11, 1929. Serial No. 406,277. 6 Claims. (Cl. 139—336.)



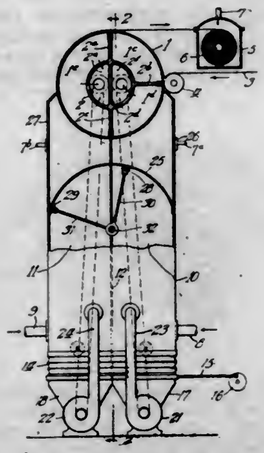
1. In an Axminster loom having a group of tube frames which are movable progressively to operative position, means to move the tube frames one at a time from the chain toward cloth forming position, a rotatable spool on each tube frame, a stop motion to stop the loom when a tube frame is improperly held in the chain, and a device acting simultaneously to offer resistance to rotation of the spool and also to co-act with the stop motion to prevent disabling thereof.

1,786,668. CONTROLLING MEANS FOR AIRPLANES. GEORGE WAYNE LYONS, Hayden, Colo. Filed Dec. 20, 1928. Serial No. 327,353. 9 Claims. (Cl. 244—29.)



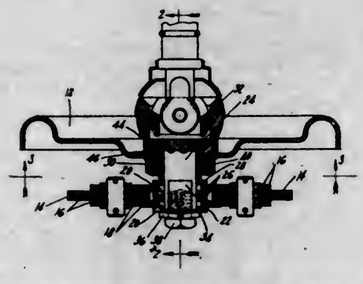
1. An airplane having a fuselage and oppositely disposed wings, each tiltable about the transverse axis to thereby change their angles of incidence, a pendulous, gravity and centrifugally affected element, levers independently operable operatively connected one to each wing and extending longitudinally along the fuselage, a transverse member connecting said levers, the pendulous element operating over and bearing upon said transverse member and causing the depression of one end or the other thereof as the element swings relative to the fuselage to thereby increase the angle of incidence of one wing or the other.

1,786,669. PROCESS OF AND APPARATUS FOR THE DRY DISINTEGRATION AND DEPOSITION OF FIBERS. FRED W. MANNING, Berkeley, Calif., assignor, by mesne assignments, to Filter Fabrics, Inc., Boston, Mass., a Corporation of Massachusetts. Filed Apr. 23, 1928. Serial No. 272,336. 18 Claims. (Cl. 19—147.)



1. That improvement in methods of making filter sheets, which consists in depositing a finely divided filtering substance on a moving web of sheet material, and producing said depositing action against the influence of gravity.

1,786,670. BRAKE CONTROL. GUS F. MICHAEL, South Bend, Ind., assignor to Bendix Brake Company, South Bend, Ind., a Corporation of Illinois. Filed Nov. 30, 1927. Serial No. 236,633. 15 Claims. (Cl. 188—94.)

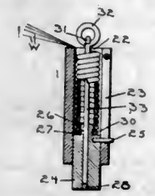


1. A brake control comprising, in combination, a brake backing plate, a bearing bracket having a shoulder engaging one face of the backing plate and having a portion extending through the backing plate and which is provided with a part engaging the opposite face of the plate and co-operating with said shoulder in securing the bracket to the plate, said bracket being formed with a shaft bearing extending through said portion, and a washer on said portion and which is formed and arranged to interlock with the backing plate.

1,786,671. THREAD HOLDER FOR WEFT-REPLENISHING LOOMS. ALFRED F. MORRELL, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 27, 1929. Serial No. 388,845. 6 Claims. (Cl. 139—247.)

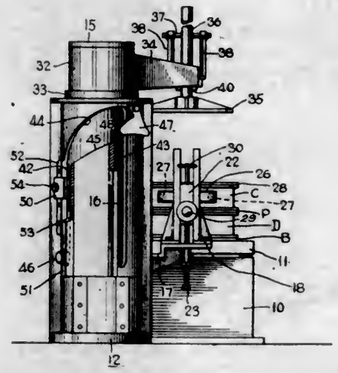
1. In a weft replenishing loom having reserve bobbins from which extend weft ends, a support, a weighted closed

coil spring movable vertically in the support, means for elevating said spring above the support and separating the coils thereof to receive the weft ends of the bobbins be-



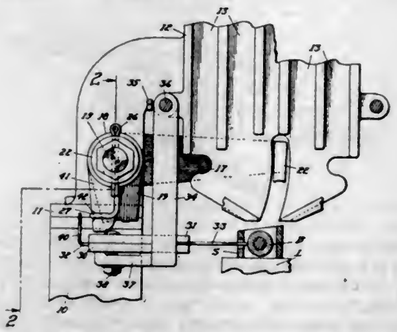
tween the coils, and means for limiting the vertical movement of said spring, the spring tending to move down under the action of gravity to keep the weft ends taut.

1,786,672. MOLDING MACHINE. THOMAS O. MORRIS, Easton, Pa., and JOHN J. LAWLOR, Plainfield, N. J., assignors to Automatic Molding Machine Corporation, Dover, Del., a Corporation of Delaware. Filed July 8, 1929. Serial No. 376,707. 9 Claims. (22—33.)



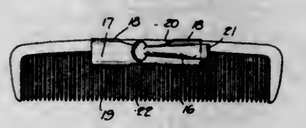
4. In a molding machine, a carrier, means for vertically reciprocating the carrier, a cam formed with two angularly spaced vertical grooves, a pin on the carrier adapted to ride in said grooves, means at the top of said grooves for swinging the pin from one groove to the other and vice versa and a stop removably secured adjacent one of the cam grooves for limiting vertical movement of the pin therein.

1,786,673. WITHDRAWING FEELER. OSCAR V. PAYNE, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Jan. 15, 1929. Serial No. 332,640. 2 Claims. (Cl. 139—271.)



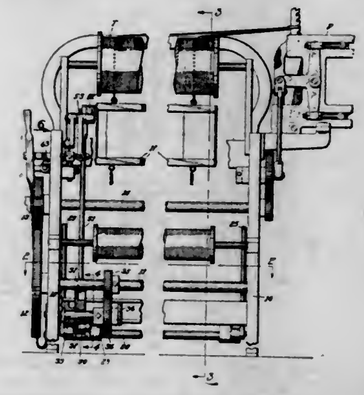
1. In a withdrawing device for side slip feelers, a pivoted transferrer arm having a pair of spaced legs to support a latch by means of which the transferrer may be actuated, a forwardly movable slide, a detector arm pivoted to the slide to move in a horizontal angular direction at the time of indication of weft exhaustion, guiding structure for the slide, the forward end of the slide being bent upwardly, and a finger formed on the transferrer arm lying substantially over the slide and in alignment with the bent end of the latter so that when the transferrer arm is actuated said finger will engage the bent end to move the slide forwardly.

1,786,674. POCKET-COMB CLIP. FRED D. PERRY, East Bakersfield, Calif., assignor to Harold R. French, East Bakersfield, Calif. Filed Oct. 30, 1929. Serial No. 403,561. 3 Claims. (Cl. 24—3.)



1. A clip for pocket combs comprising a clamp including spaced jaws and a bight portion resiliently connecting the jaws, said bight portion having an opening therein to divide the latter into two spaced parts, and a tongue resiliently connected to the clamp so as to be disposed at one side thereof.

1,786,675. WARP STOP MOTION FOR TERRY-TOWEL LOOMS. JOHN REGAN, New Bedford, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Sept. 17, 1928. Serial No. 306,324. 7 Claims. (Cl. 139—349.)

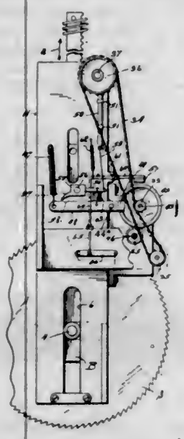


1. In a warp stop motion for a terry towel loom having a plurality of harnesses which complete the repeat of the pattern in three picks and all of which cross on one pick of the repeat, a terry forming member having one movement for each repeat of the harnesses, a warp stop motion, and an actuator for the stop motion operatively connected to the member and having a knocking-off stroke on that pick of the repeat when all the harnesses cross and effective to stop the loom when a fault occurs in the warp.

1,786,676. TRIMMING MACHINE. NATHAN EDWARD SARGEANT, Montesano, Wash. Filed Apr. 24, 1928. Serial No. 272,538. 10 Claims (Cl. 143—47.)

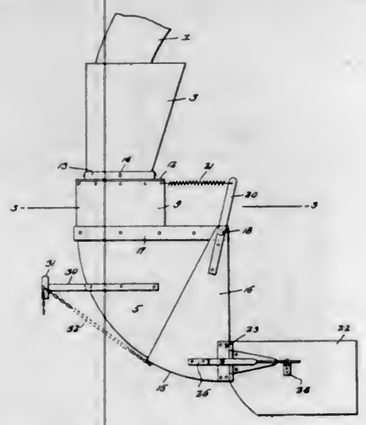
1. A wood working apparatus comprising a vertically disposed housing, a movable carriage mounted in the hous-

ing, operating means for moving the carriage upwardly in the housing, carriage stopping means carried by the housing and actuated upon movement of said carriage at



a predetermined point in the line of its travel in the housing, and carriage releasing means mounted on the housing and engaging said stopping means and adapted to permit the carriage to gravitate downwardly therein.

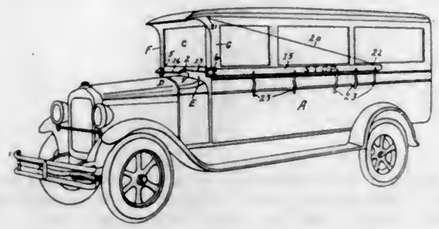
1,786,677. AUTOMATIC ENSILAGE DISTRIBUTOR. ALBERT A. SIEVERT, Kaukauna, Wis. Filed Oct. 17, 1929. Serial No. 400,263. 3 Claims. (Cl. 302—60.)



1. An ensilage distributor of the character described comprising an intake funnel adapted for connection with a blower pipe, an ensilage distributing elbow rotatably suspended from the funnel, an adjustable discharge lip pivotally mounted on the forward end of the elbow, and an adjustable actuating vane mounted on the discharge lip for engagement by the air blast and ensilage from the elbow for the purpose of rotating same on the funnel.

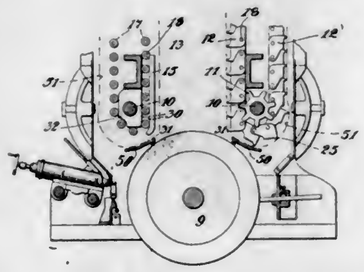
1,786,678. TRAFFIC STOP. EDGAR L. STANTON, Union County, Ind. Filed Mar. 19, 1930. Serial No. 437,250. 6 Claims. (Cl. 116—63.)

1. A traffic stop comprising a shaft, a lever secured to one end of said shaft, an elongated plate secured to the other end of said shaft with an aperture formed through each extremity thereof, which apertures are equidistant from said shaft, a rod pivoted in each of the said apertures in said plate and extending laterally and in directions opposite to each other, a bell-crank pivoted to be



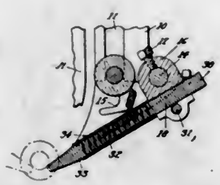
operated by the operation of said lever through said rods with said bell-cranks operating in directions opposite to each other, and an element adapted to be swung laterally by each of said bell-cranks.

1,786,679. WOOD GRINDER. WILHELM THALER, Heidenheim-on-the-Brenz, Germany, assignor to American Voith Contact Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 21, 1926. Serial No. 82,649. 10 Claims. (Cl. 83—75.)



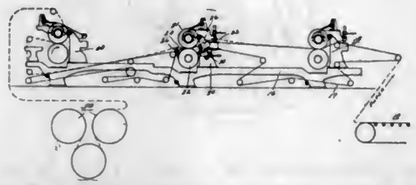
1. In a continuous grinder having upper and lower chain sprocket wheels, chain guiding means, including a fixed guide member for guiding the chain in a substantially straight line relation below the lower sprocket wheel and in close proximity to the grindstone.

1,786,680. BOBBIN SUPPORT FOR WEFT-REPLENISHING LOOMS. JOHN F. TINSLEY, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester Mass., a Corporation of Massachusetts. Filed Dec. 3, 1928. Serial No. 323,217. 18 Claims. (Cl. 139—251.)



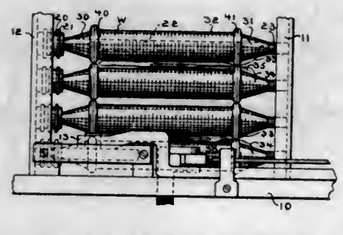
1. In a weft replenishing loom having reserve bobbins which are movable toward transfer position, a support to assist in holding a bobbin in transfer position, said support including a coil spring, and a resilient covering for said spring made of inherently elastic material to be engaged by the bobbin and the weft and extending therefrom as the bobbin moves toward transfer position.

1,786,681. METHOD OF AND APPARATUS FOR MANUFACTURING PAPER. JOHN TRAQUAIR, Chillicothe, Ohio, assignor to The Mead Pulp & Paper Company, Dayton, Ohio, a Corporation of Ohio. Filed July 31, 1926. Serial No. 126,230. 18 Claims. (Cl. 92—40.)



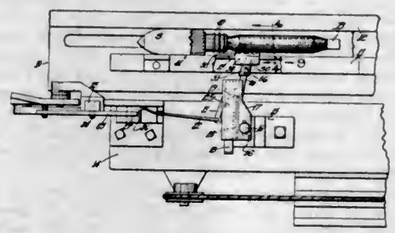
1. The method in the making of paper which comprises forming a sheet of wet paper and thereafter incorporating a paper surface layer of controlled characteristics upon such wet sheet of paper before it is passed to the driers by flowing a liquid stock suspension containing fibrous material thereon.

1,786,682. BOBBIN FOR WEFT-REPLENISHING LOOMS. RICHARD G. TURNER, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed May 3, 1929. Serial No. 360,244. 8 Claims. (Cl. 139—257.)



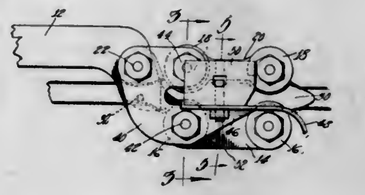
1. A pair of bobbins having the free weft ends thereof tied together, one of said bobbins being so wound that the main body of yarn thereon is held out of contact with but supported by the other bobbin to separate the bobbins and define a space between them in which the tied weft ends may lie.

1,786,683. WEFT DETECTOR. RICHARD G. TURNER, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed June 27, 1929. Serial No. 374,124. 10 Claims. (Cl. 139—287.)



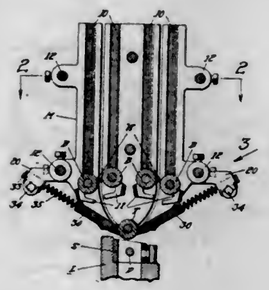
1. In a weft detecting mechanism to detect a mass of weft which decreases in diameter as it approaches exhaustion, a detector member, a pivot therefor around which the detector swings to give indication of weft exhaustion, said member having weft engaging elements offset in different degrees along the length of the mass of weft relatively to the pivot, one element being offset in less degree than the other and effective to engage a large diameter only of weft to prevent the other element from engaging the weft, the offset of the first element being too small to effect sliding of said element along the weft of large diameter, and the other element having a greater offset than the first element and effective to engage a relatively small diameter of welt and slide therealong to move the member around the pivot when insufficient weft remains.

1,786,684. TEMPLE FOR DOUBLE-FABRIC LOOMS. RICHARD G. TURNER, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed July 22, 1929. Serial No. 380,132. 3 Claims. (Cl. 139—294.)



1. In a loom for weaving double fabric, a temple frame, a pair of upper temple rolls and a pair of lower temple rolls supported by said frame, and a rearwardly extending guiding and separating member positioned between said upper and lower rolls and supported entirely by said frame at a point forward of said rolls.

1,786,685. BOBBIN SUPPORT FOR WEFT-REPLENISHING LOOMS. KENNETH J. UNWIN, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 22, 1928. Serial No. 321,240. 16 Claims. (Cl. 139—251.)

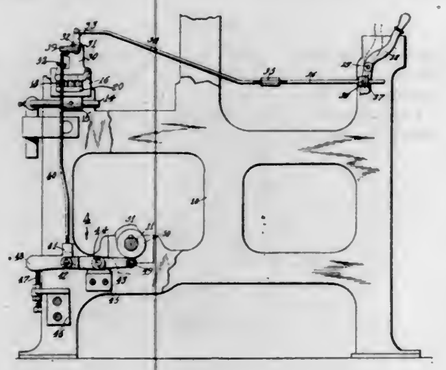


1. In a weft replenishing loom, means defining a guideway along which a plurality of bobbins may move toward transfer position, a bobbin support formed of a piece of wire coiled on itself, said support having some of the coils closely adjacent each other and having other coils open or separated with respect to each other, the open coils being located on that portion of the support which lies to that side of the guideway for the bobbins which is opposite the position occupied by a bobbin when in transfer position.

1,786,686. MECHANICAL WARP STOP MOTION. WALTER H. WAKEFIELD, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 2, 1928. Serial No. 316,835. 5 Claims. (Cl. 139—360.)

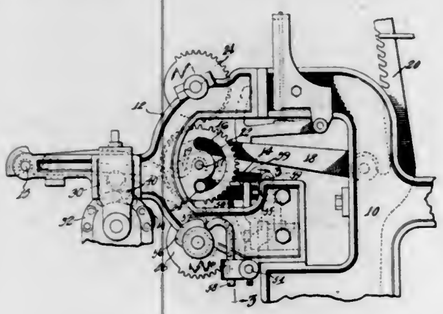
1. In a warp stop motion, a detector rod to be oscillated about the axis thereof, a loom stopping mechanism, a reg-

ularly moving driving means having a periodic movement, a weighted actuator pivotally mounted on the means and having operative connection with the detector rod, said actuator member moving toward the stopping device when



the means has a periodic movement and tending by its weight to move to one side of the stopping device and to oscillate the detector rod, the detector rod when held against movement causing engagement of the stopping device by the actuator member.

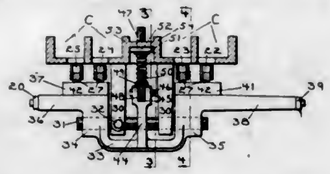
1,786,687. ATTACHMENT FOR REVERSIBLE DOBBY HEADS. WILLIAM M. WATTIE, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed July 22, 1929. Serial No. 380,112. 4 Claims. (Cl. 139—77.)



1. In a dobby head, a plurality of vibrator levers, pattern means to support said levers in high, low and intermediate positions, and additional devices by which selected levers may be supported in intermediate position, said devices being removably mounted in said dobby head.

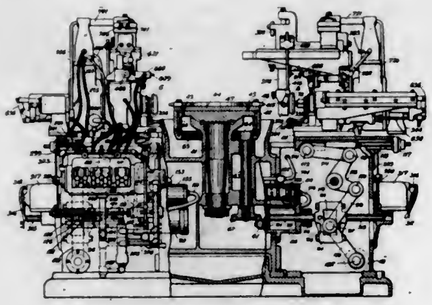
1,786,688. MULTICOLOR MAGAZINE FOR LOOMS. WILLIAM M. WATTIE, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 13, 1929. Serial No. 385,596. 6 Claims. (Cl. 139—232.)

1. In a weft replenishing mechanism including a magazine having certical slides and shuttle feeler and transferrer latch elements to be controlled by the slides, a rocking member operatively connected to the said elements, a pair of spaced bearings between certain of the vertical slides, pivotal connections between the bearings and the rocking member, a spring actuated knuckle joint between the magazine and the rocking member to hold the member yieldingly in either of two positions, said joint being between the bearings, and two spaced shelves



lying outside the bearings to cooperate with the vertical slides to move the member against the action of the spring actuated joint.

1,786,689. COMPLETELY AUTOMATIC GEAR-CUTTING MACHINE. HERBERT J. WHITE, Rochester, N. Y., assignor to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed Dec. 13, 1928. Serial No. 325,841 58 Claims. (Cl. 90—3.)

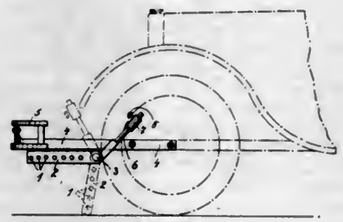


1. In a machine for producing gears, the combination with a tool mechanism, a work spindle, and means for securing a gear blank to the work spindle, of means for producing a partial relative withdrawal motion between tool and blank periodically for indexing and for effecting a complete relative withdrawal of the tool away from the blank after the cutting operation on the blank has been completed, said last named movement being in the same direction as the partial withdrawal movement and means actuated on the last named movement for releasing the blank securing means.

18. In a machine for producing gears, a work spindle, a magazine adapted to carry a plurality of gear blanks, a blank loading mechanism including a movable transfer arm adapted to be moved from a position of registration with the magazine to a position of registration with the work spindle, means for releasably holding a blank on said arm, means for reciprocating said arm in a direction at an angle to its transfer movement to position a blank on the work spindle and withdraw the arm after the same has been positioned, means for clamping a blank on the spindle and hydraulically operated mechanism for controlling the operation of said parts so that these operations occur in proper sequence.

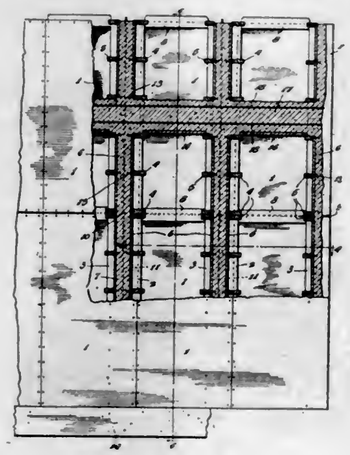
48. In a machine of the class described, a pair of supports, one of which is a work support, means for moving one of said supports toward the other to effect a working operation and for withdrawing said support away from the other to permit removal of a completed work-piece and chucking of a new blank, a blank holder, a transfer arm for transferring blanks from the blank holder to the work support, separate fluid-pressure operated means for reciprocating and oscillating said transfer arm to effect the transfer operation, a rotary member controlling the sequence of operation of the transfer mechanism, and means operable on movement of the movable support to loading position to actuate said rotary member.

1,786,690. SAFETY DEVICE FOR VEHICLES, PARTICULARLY POWER-DRIVEN VEHICLES. ALBERT ADDICKS, Boitwarden, near Brake, Germany. Filed Jan. 31, 1929, Serial No. 336,482, and in Germany Jan. 5, 1929. 8 Claims. (Cl. 293—34.)



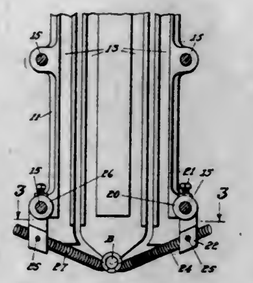
1. A safety device for vehicles, specially power driven vehicles, comprising in combination a catching device oscillatably mounted under the vehicle frame in front of the two front wheels, and a counterweight device on the upper end of said catching device actuated by inertia when the vehicle is suddenly stopped or started.

1,786,691. BUILDING CONSTRUCTION. WILLIAM D. BELDING, Denver, Colo. Filed Nov. 27, 1929. Serial No. 410,237. 7 Claims. (Cl. 72—30.)



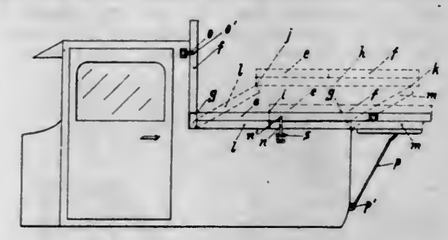
1. A building unit consisting of side plates, end frames disposed between the side plates and secured thereto, and end plates closing the outer sides of the end frames, one end frame projecting beyond the adjacent edges of the side plates and the other end frame being disposed inwardly from the adjacent edges of the side plates.

1,786,692. YIELDABLE SUPPORT FOR BOBBIN TIPS. CARL P. BERGSTROM, Millbury, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 22, 1928. Serial No. 321,205. 14 Claims. (Cl. 139—251.)



1. In a weft replenishing loom having a magazine, a lay, a substantially cylindrical bobbin support capable of bending on itself, and means on the magazine having a support engaging portion to hold said support so that the same projects downwardly and obliquely with respect to the movement of the lay.

1,786,693. TRANSFORMATION OF A MOTOR CAR WITH CLOSED CARRIAGE BODY INTO A PLATFORM LORRY. WILHELM BLASS, Hamburg, Germany. Filed Nov. 13, 1929, Serial No. 406,917, and in Germany Aug. 1, 1929. 1 Claim. (Cl. 296—108.)

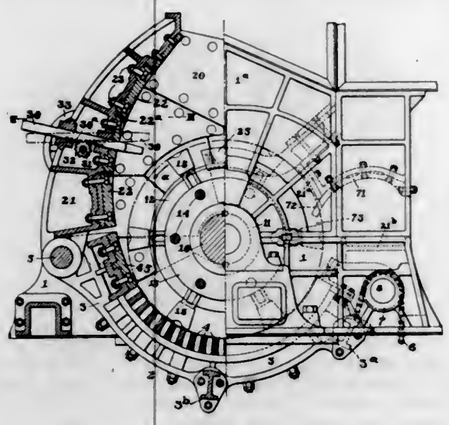


A motor car for passengers transformable into a platform lorry, comprising in combination with the stationary front part of the carriage body and the stationary lower portion of the rear part of the carriage body, hingedly mounted side walls adapted to be laid down in inward direction, hingedly mounted front and rear supporting frames of the roof, a double roof composed of a top roof consisting of two hingedly connected parts and of a lower roof hingedly connected at the front edge to the front edge of the front part of said top roof, stays hingedly mounted on the rear wall of the carriage body to support the collapsed parts of the roof forming a platform, and screw bolts and nuts for locking the platform in position.

1,786,694. HAMMER CRUSHER. GEORGE W. BORTON, New Lisbon, N. J., assignor to Pennsylvania Crusher Company, New York, N. Y., a Corporation of New York. Original application filed Aug. 25, 1928, Serial No. 302,080. Divided and this application filed June 6, 1929. Serial No. 368,819. 10 Claims. (Cl. 83—11.)

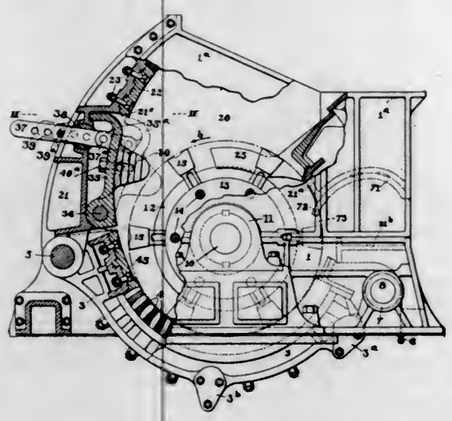
1. In a crushing machine, the combination with a frame having a hopper and a breaker wall structure pivotally connected to said frame and partly overhanging said hopper, a screen adjustably mounted in the lower portion of said frame and below said overhanging breaker wall structure, a rotor structure carrying hammers cooperating with said screen, and a series of grid bars in the lower portion

of said hopper above the screen, of adjustable bars projecting into said hopper in substantial alignment with said grid bars and serving with the latter to temporarily re-



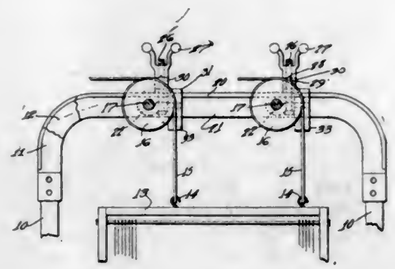
tard the passage of material to be crushed whereby said material may be subjected to the action of said hammers in their up-running movement while temporarily retarded.

1,786,695. HAMMER CRUSHER. GEORGE W. BORTON, New Lisbon, N. J., assignor to Pennsylvania Crusher Company, New York, N. Y., a Corporation of New York. Original application filed Aug. 25, 1928, Serial No. 302,080. Divided and this application filed June 6, 1929. Serial No. 368,820. 8 Claims. (Cl. 83—11.)



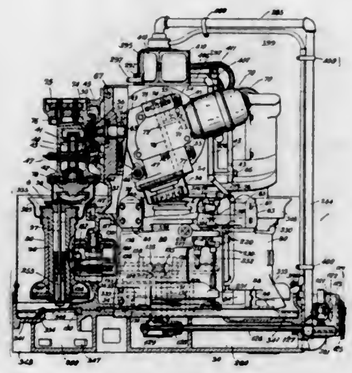
1. In a crushing machine, the combination with a frame having a hopper and a breaker wall structure pivotally connected to said frame and partly overhanging said hopper, a screen adjustably mounted in the lower portion of said frame and below said overhanging breaker wall structure, a rotor structure carrying hammers cooperating with said screen, and a series of grid bars in the lower portion of said hopper above the screen for temporarily retarding the passage of material to be crushed whereby said material may be subjected to the action of said hammers in their uprunning movement while temporarily retarded, of a wear member pivotally mounted in said breaker wall structure and arranged to be adjusted toward and from said grid bars.

1,786,696. HARNESS-SHEAVE STAND FOR LOOMS. ALLEN E. BRICKMAN, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Sept. 19, 1929. Serial No. 393,823. 3 Claims. (Cl. 139—55.)



1. In a loom having harness sheaves on a shaft and arches having spaced vertical faces and spaced horizontal faces, a pair of members one to engage one vertical and one horizontal surface of the arch and the other to engage the other vertical and horizontal surfaces of the arch, said members having coacting surfaces which are inclined with respect to the horizontal and vertical surfaces of the arch, means to clamp the members against the arch and to hold the inclined surfaces in contact with each other, and a device supported by one of the members to hold the sheave shaft.

1,786,697. MACHINE FOR PRODUCING GEARS. EDWARD W. BULLOCK, ALBERT P. SCHAUSEIL, ALFRED W. DRAESEKE, CLARENCE T. GALLOWAY, and MAXWELL H. HILL, Rochester, N. Y., assignors to Gleason Works, Rochester N. Y., a Corporation of New York. Filed Aug. 8, 1928. Serial No. 298,320. 106 Claims. (Cl. 90—4.)

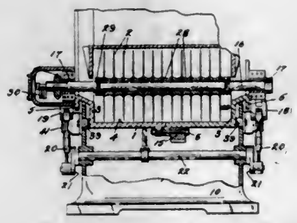


1. In a machine for producing tapered gears, a base, a turret rotatably mounted thereon, a plurality of work spindles rotatably mounted on the turret, a plurality of tool supports mounted on the turret, one for each work spindle, a rotary cutter journaled in each tool support which has its cutting edges extending in a direction generally parallel to its axis, means for adjusting the several tools into operative relation with the blank carried by said work spindles so that the axis of each work spindle is inclined to the axis of the corresponding tool at an angle determined by the root angle of the gear to be produced, means for rotating the cutters, means for rotating the turret, and means for feeding the blank relative to the tools during the rotation of the turret.

75. In a machine for producing gears, a base, a turret rotatably mounted thereon, a plurality of tools mounted on said turret, a plurality of work supports pivotally mounted on said turret one work support being paired with each tool, a work spindle journaled in each work support, means for moving the work pieces periodically toward and away from their respective tools during rotation of the turret to impart an alternate movement of feed and withdrawal to the blanks being cut, means for indexing the work spindles during each period of withdrawal, means for locking the work supports in operative relation with their respective tools during cutting, means for actuating the tools, means for rotating the turret continuously, means adapted to be actuated into position as the work supports successively reach a predetermined position and during the last feed movement of each support in the cutting of a blank to release the locking means on the subsequent withdrawal movement, and means for swinging the work supports about their respective pivotal axes when released to permit removal of the completed gear and positioning of a new blank.

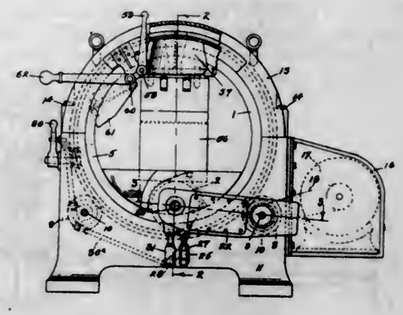
100. In a machine for producing gears, a base, a turret rotatably mounted thereon, a plurality of work supports pivotally mounted on the turret, a work spindle journaled in each work support, a plurality of tools mounted on the turret, one of which is paired with each work spindle to operate on the blank carried thereby during rotation of the turret, means for adjusting the several tools and work supports into operative relation with each other with the axis of each work spindle angularly disposed to the plane of operation of the corresponding tool, means for actuating the tools, means for imparting an alternate movement of feed and withdrawal between each tool and the corresponding work spindle in the direction of the axis of the work spindle, means for indexing the work spindles during the periods of withdrawal, means for rotating the turret continuously, and means for atuomatically moving the work supports on their pivots successively as each reaches a predetermined position to permit removal of the completed gear from the work spindle and chuck of a new blank.

1,786,698. APPARATUS FOR CUTTING MATERIALS. EDWARD PARKER BURRELL, Cleveland, Ohio, assignor, by mesne assignments, to The Guardian Trust Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 6, 1926. Serial No. 86,380. 13 Claims. (Cl. 146—67.)



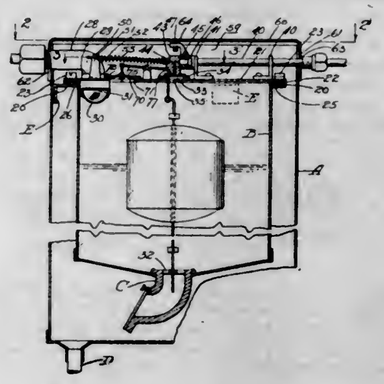
13. In a cutting machine in combination, a housing, a drum, means for rotatably supporting the drum within the housing, means for variably maintaining the drum in spaced relation to the housing, cutting means disposed within the drum, means for maintaining the cutting means in spaced relation to the drum, and means for rotating the drum and cutting means.

1,786,699. APPARATUS FOR CUTTING MATERIALS. EDWARD PARKER BURRELL, Cleveland, Ohio, assignor, by mesne assignments, to The Guardian Trust Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 8, 1926. Serial No. 86,771. 17 Claims. (Cl. 146—67.)



15. In a cutter, the combination of a housing, a drum rotatably mounted in the housing, a cutter shaft within the drum, an arm pivoted to said housing and supporting said cutter shaft, and means for rotating said cutter shaft housed within said arm.

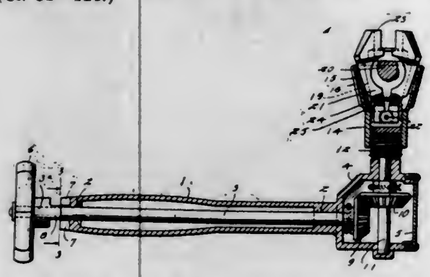
1,786,700. VACUUM-OPERATED FUEL-FEEDING APPARATUS. CHARLES S. BURTON, Oak Park, Ill. Filed Oct. 24, 1929. Serial No. 402,205. 7 Claims. (Cl. 103—236.)



1. In an apparatus for the purpose indicated comprising a vacuum chamber closed except as to the parts hereinafter mentioned; a liquid accumulating chamber having limited atmosphere vent at the top, and a third chamber over the vacuum chamber in free atmospheric communication with the accumulating chamber, the vacuum chamber having at upper and lower parts thereof respectively, a liquid inflow port and a liquid discharge port having respectively liquid supply connection for deriving supply from a source of liquid, and liquid discharge connection for delivering liquid to the accumulating chamber, the vacuum chamber having at the upper part a third port opening into said third chamber; a suction conduit arranged for connection with a source of suction, said suction conduit being mounted in said third chamber and comprising a terminal having an inlet port, said terminal being mounted for movement to carry said inlet port into and out of junction with the third port of the vacuum

chamber; a float in the vacuum chamber, and means operated by the float for moving said terminal to carry its said inlet port into and out of junction with said third port of the vacuum chamber upon the descent and rise of the float due to the fall and rise of the level of the liquid content of the vacuum chamber to predetermined limits.

1,786,701. WRENCH. HILTON B. BUTLIN, Lapeer, Mich. Filed Nov. 15, 1929. Serial No. 404,998. 1 Claim. (Cl. 81—114.)



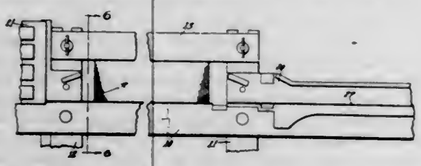
In a speed wrench of the character described, comprising a handle, a shank rotatably mounted in the handle and having a kerf in one end thereof, a pair of jaw members, means positioned in the kerf for pivotally securing the jaw members together, resilient means for moving the jaws away from each other, a bell member threadably mounted on the shank for moving the jaw members toward each other, a solid brace connecting the opposite sides of the kerf, said jaw members having inwardly extending nut engaging portions overlying said brace, said brace limiting the insertion of a nut between the jaws and coactively preventing twisting of the shank, and means mounted in the handle and engaging the shank for rotation thereof.

1,786,702. SHUTTLE-BOX CONSTRUCTION FOR LOOMS. JAMES F. COLGAN, Providence, R. I., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 20, 1928. Serial No. 327,340. 15 Claims. (Cl. 139—183.)



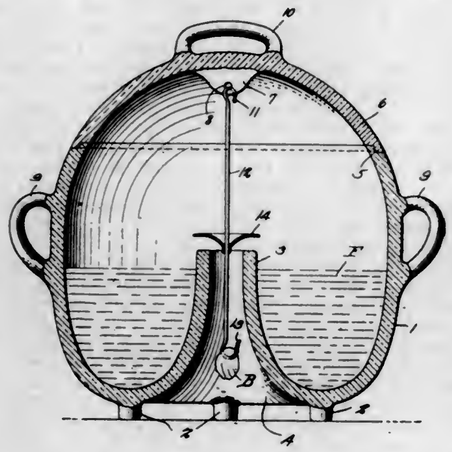
1. In a loom lay, a bottom box plate, a plurality of positioning elements normally fixed to the lay but movable with respect thereto and forming points of support for the bottom box plate, and means to hold said plate against said elements.

1,786,703. LAY AND SHUTTLE BOX FOR LOOMS. JAMES F. COLGAN, Providence, R. I., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 20, 1928. Serial No. 327,341. 13 Claims. (Cl. 139—183.)



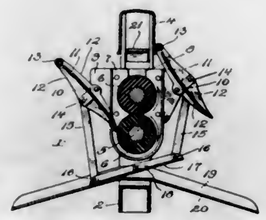
1. In a loom lay having a reed along which a shuttle may run, a member independent of the reed supported by the lay and in substantial alignment with the reed to guide the shuttle, a positioning device movable with respect to the lay and transversely of the reed to engage and position the member independently of the reed, and retaining means also movable with respect to the lay and transversely of the reed to hold said member against the positioning device.

1,786,704. INSECT TRAP. STANESLAUS DEIBELE, Woodburn, Oreg. Filed July 30, 1929. Serial No. 382,153. 2 Claims. (Cl. 43—122.)



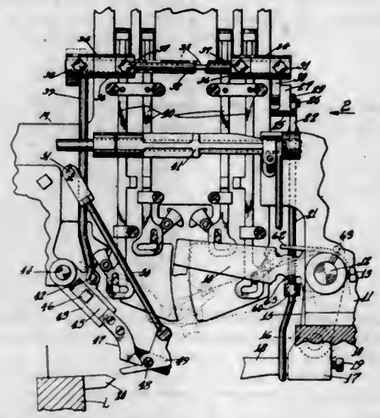
1. An insect trap including a bowl for holding a liquid, a tubular core opening upwardly into the bowl and downwardly through the bottom thereof, said core being flared downwardly, means for supporting the bottom of the bowl above a supporting surface, a lid removably mounted on the bowl, bait supporting means suspended from the lid and within the core, and a deflector carried by said means and overhanging but spaced from the core.

1,786,705. FEEDING TABLE FOR CLOTHES WRINGERS. WILLIAM C. F. DIETZ, Cincinnati, Ohio. Filed Oct. 10, 1928. Serial No. 311,638. 5 Claims. (Cl. 68—32.)



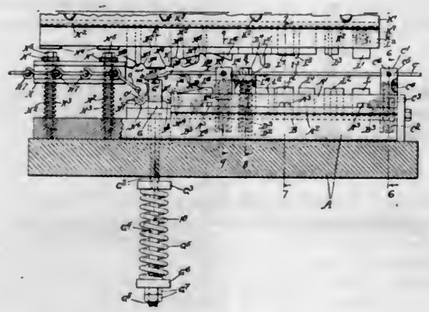
1. In a clothes wringer provided with upper and lower wringer-rolls, feeding tables located on opposite sides of the rolls and arranged to swing toward and away therefrom, the pivoted connections of said tables being located at a point above the lower of said rolls so that upon the presentation of the tables to the rolls the same will be directed downwardly and angularly toward the lower of said rolls, and a connection between the tables whereby as one of the tables is presented to the rolls the other is swung away therefrom.

1,786,706. RESETTING MECHANISM FOR WEFT-REPLENISHING LOOMS. PHILIP D. DOHERTY, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 14, 1929. Serial No. 347,094. 10 Claims. (Cl. 139—232.)



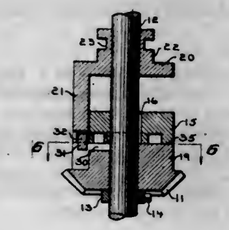
1. In a weft replenishing loom having a lay, a combined shuttle feeler and thread cutter, a transferrer arm, a latch operatively connected to the arm and capable of engagement with the lay, operating connections between the shuttle feeler and the latch to act on transferring beats of the loom to move the latter into operative relation with respect to the lay and also to move the shuttle feeler into shuttle detecting position in the path of the lay, and means movable with the transferrer arm independent of the latch to engage said connections and move the latter to move the combined shuttle feeler and cutter out of the path of the lay during the forward movement of the lay to prevent engagement of the lay and combined feeler and cutter.

1,786,707. APPARATUS FOR CHAIN MANUFACTURE. RAYMOND W. DULL, Chicago, Ill., assignor to Link-Belt Company, Chicago, Ill., a Corporation of Illinois. Filed May 7, 1924. Serial No. 711,534. 40 Claims. (Cl. 59—6.)



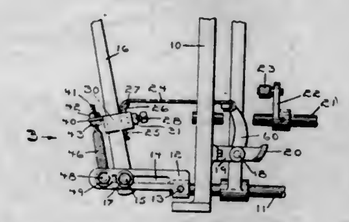
1. In a machine for making, from a continuous strip of sheet metal stock, chain links having pintles and hooks struck from the center of the link, comprising an opposed die and punch, having a plurality of elements positioned therein for progressive action upon the stock passing therebetween, longitudinal scoring knives adapted to score the link to outline the inner edges of the side bars, a knife element adapted transversely to sever the metal between said scores, means for indenting the link at the inside corners of the junction of the side bars and the hook end bar on the side of the stock from which the hook is bent, and means upon the punch adapted to contact the hook tongue and separate it from the side bars and bend it in relation to the link.

1,786,708. CLUTCH. ANTHONY D. GARGOLINSKI, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed May 11, 1929. Serial No. 362,355. 14 Claims. (Cl. 139—180.)



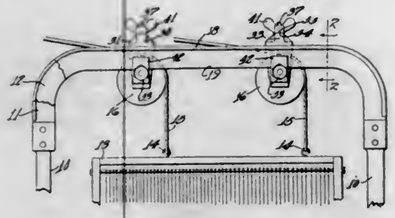
1. In a clutch mechanism, a shaft to be rotated, a driven clutch element secured to the shaft, a driving element, a coupling member movable to driving position to operatively connect the elements and movable also to non-driving position to operatively disconnect said elements, said elements capable of relative angular movement when the elements are operatively disconnected, a controller for the coupling member movable radially and peripherally with respect to the shaft out of and into the path of the coupling member, and means to cause radial movement of the controller when the elements move angularly relatively to each other.

1,786,709. PICKER-STICK RETRIEVER FOR LOOMS. ANTHONY D. GARGOLINSKI, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Sept. 12, 1929. Serial No. 392,223. 6 Claims. (Cl. 139—147.)



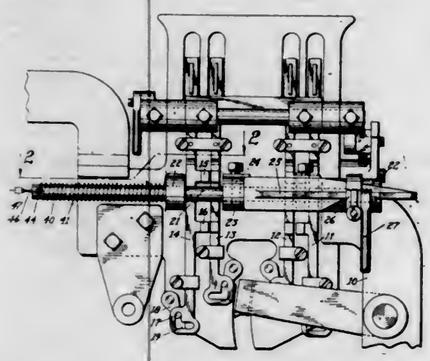
1. In a picking motion for a loom, a rocker foot having a substantially horizontal slot therein, a picker stick, a support for the picker stick secured to the foot and through the slot and adjustable along the latter, a power member to actuate the picker stick, a resilient element having one end secured to the rocker foot and having the main portion thereof extending substantially parallel to the picker stick, and a common support secured to and movable to different positions along the picker stick for the upper end of the resilient element and the power member, the resilient element acting in opposition to the power member and returning the picker stick to normal position after a picking stroke.

1,786,710. HARNESS-SHEAVE STAND FOR LOOMS. ANTHONY D. GARGOLINSKI, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Sept. 19, 1929. Serial No. 393,822. 8 Claims. (Cl. 139—55.)



1. In a loom having an arch and a shaft to support harness sheaves, a pair of members engaging opposite sides of the arch, means to clamp said members together, one of said members having a vertical recess extending therethrough surrounded on three sides by portions of the member, and a vertical threaded member lying in the recess and having supporting engagement with the sheave shaft and supported by one of the members.

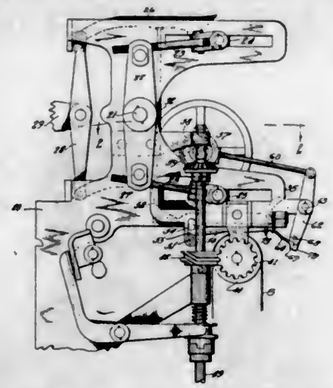
1,786,711. COLOR-SLIDE CONTROL FOR MULTICOLOR MAGAZINES. ALBERT A. GORDON, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed June 8, 1928. Serial No. 283,975. 3 Claims. (Cl. 139—232.)



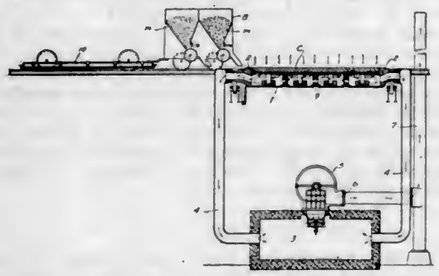
1. In a multicolor weft replenishing mechanism, an angularly and longitudinally movable color slide, a rod forming part of said color slide, an extension on said rod extended rearwardly and having a perforation therein, a bearing through which the rod passes, and a tension spring surrounding the extension of the rod and having the rear end thereof passing through the perforation and having the forward end attached to the bearing, said spring tending normally to move the rod yieldingly in one direction.

1,786,712. LOOM DOBBY. ALBERT A. GORDON, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 13, 1929. Serial No. 385,507. 7 Claims. (Cl. 139—74.)

1. In a dobby, a pattern cylinder having holes therein, means to intermittently advance said cylinder, a record sheet mounted on said cylinder and having transverse rows of perforations therein adapted to register with said holes, a plurality of dobby fingers, lifter mechanism therefor, a plurality of indicating members, a support on which said members are pivoted, and means to give said support intermittent regular movements, the resultant movement of said members being modified by the presence or absence of perforations in said record sheet.

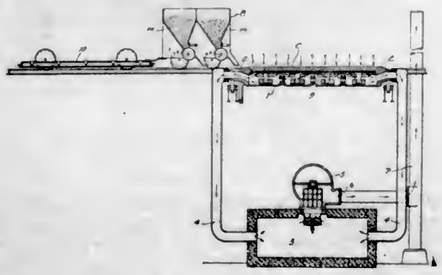


1,786,713. METHOD OF MANUFACTURING ARTIFICIAL AGGREGATE FOR MORTARS AND CONCRETES. JOHN E. GREENAWALT, New York, N. Y. Filed Feb. 16, 1929. Serial No. 340,642. 4 Claims. (Cl. 106—21.)



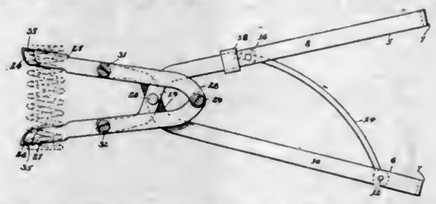
1. The process of manufacturing a concrete aggregate which comprises mixing finely crushed clay and cinders, charging said mixture in a suitable vessel, passing a combustion supporting gas therethrough, igniting the charge at its surface, and continuing to pass the combustion supporting gas through the charge until the same is sintered.

1,786,714. METHOD OF SINTERING CLAY. JOHN E. GREENAWALT, New York, N. Y. Filed Feb. 10, 1929. Serial No. 340,643. 7 Claims. (Cl. 106—21.)



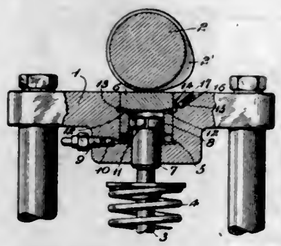
1. The process of manufacturing an aggregate for mortars or concretes, which comprises reducing argillaceous material to a finely divided condition, adding water thereto to form an agglutinated mixture, converting said mixture into a homogeneous mass of small bodies, and arranging said bodies on a permeable hearth to form a charge, effecting a distribution of fuel throughout said charge, igniting the fuel at one surface of the charge, causing a supporter of combustion to pass through the charge away from said ignited surface, whereupon combustion of the fuel will proceed through the charge and produce a hard, porous, burnt product.

1,786,715. VALVE-LIFTING TOOL. ADOLPH KAUFMAN, Fairfield, Conn. Filed Feb. 13, 1930. Serial No. 428,032. 4 Claims. (Cl. 29—86.3.)



1. A valve lifting tool comprising a pair of handle members, each including two forwardly disposed portions which are deflected inward to cross each other and are pivotally connected together and have their end portions disposed forward in substantially parallel relation to each other, two pairs of jaw members having their ends disposed rearward of the pivot connecting the handle members and pivotally connected together, the two members of the upper pair of jaws being pivotally connected substantially midway of their length to the forward end portion of the lower handle members, the two members of the lower jaw being pivotally connected intermediate of their lengths to the end portions of the upper handle, the engaging ends of the jaws of each pair being disposed in spaced relation to each other and in substantially operatable alignment with that of the cooperating pair of jaws.

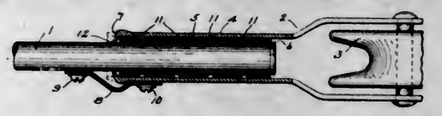
1,786,716. HYDRAULIC VALVE GEAR. LEROY A. KAUFFMAN and WINDSOR DAVIS, Washington, D. C., assignors to Warren Noble, Detroit, Mich. Filed Jan. 18, 1929. Serial No. 333,455. 6 Claims. (Cl. 123—90.)



1. In a hydraulic valve operating mechanism, an operating and an operated plunger, a hydraulic fluid chamber intermittently connected to a source of fluid supply, means outside of said chamber for collecting air accumulating therein, means for compressing air collected and means for releasing the pressure whereby said air is vented.

1,786,717. TROLLEY SILENCER. EDGAR D. MOORE and FRED R. DIPPMAN, Mansfield, Ohio, assignors to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Mar. 7, 1929. Serial No. 344,984. 19 Claims. (Cl. 191—64.)

1. The combination of a current collector, a support member therefor and a hollow-support member for said first support, and the said support positioned in overlapping relation with a sleeve of resilient material between the said support members to prevent sound vibrations passing to the pole and having a surface union with one member and a mechanical interlock with the other member to prevent its separation from said members and a conductor connected to the support to conduct current away from the collector.

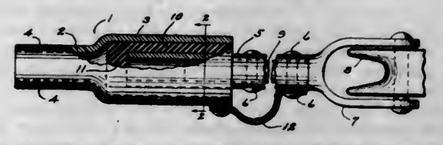


1,786,718. CURRENT-COLLECTOR SUPPORT. EDGAR D. MOORE and FRED R. DIPPMAN, Mansfield, Ohio, assignors to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed June 10, 1929. Serial No. 369,553. 19 Claims. (Cl. 191—64.)



1. An insulating device for attachment to a trolley pole comprising a deformable insulating body of resilient rubber, a metal member provided with a receptacle therefor, a metal member embedded in and interlocked with the insulating body against separation therefrom, and projecting therefrom, means on one metal member for attachment to a pole and means on the other metal member for attachment to a collector support.

1,786,719. CURRENT-COLLECTOR SUPPORT. FRED R. DIPPMAN and EDGAR D. MOORE, Mansfield, Ohio, assignors to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed July 24, 1929. Serial No. 380,732. 11 Claims. (Cl. 191—64.)



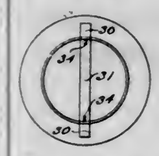
1. A trolley device comprising a pair of metal parts held out of contact and prevented from separation by a resilient rubber member vulcanized to the surfaces of the metal parts.

1,786,720. CURRENT-COLLECTOR SUPPORT. EDGAR D. MOORE and FRED R. DIPPMAN, Mansfield, Ohio, assignors to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Aug. 28, 1929. Serial No. 389,058. 10 Claims. (Cl. 191—64.)



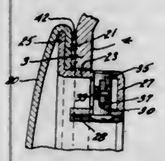
1. A trolley device comprising outer and inner members having lapping portions with a common longitudinal axis and out of direct engagement, means to hold the members in the relation to each other set forth above and prevent their longitudinal separation, the said means made of a yieldable material and tending to shift its position relative to the said members to offer increasing resistance to separation of the members as the separating force increases.

1,786,721. ATTACHMENT FOR TUBULAR MEMBERS. JAMES S. REID, Cleveland, Ohio, assignor, by mesne assignments, to The Eaton Axle & Spring Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 25, 1926. Serial No. 137,685. 5 Claims. (Cl. 220—40.)



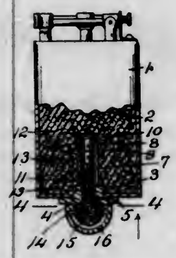
1. An extension attachment for tubular necks of the type having opposed locking portions adjacent one end thereof, comprising a tubular extension body member, a hollow supporting member secured to said body member and provided with a pair of opposed openings, and rod means mounted in said openings and having outwardly projecting locking end portions for bayonet-joint locking engagement with the locking portions of said neck, whereby said extension attachment can be detachably connected to said neck.

1,786,722. NECK AND CLOSURE STRUCTURE. JAMES S. REID, Cleveland, Ohio, assignor to The Eaton Axle and Spring Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 15, 1929. Serial No. 340,102. 9 Claims. (Cl. 220—40.)



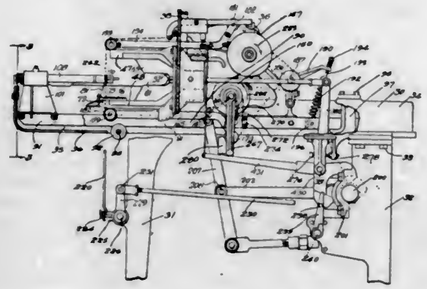
1. A neck and closure structure, comprising a tubular neck and a removable closure for one end thereof, said neck being provided at its end to be closed with a plurality of locking portions, said closure being provided with a plurality of independent locking members and a support therefor, each of said locking members having an elongated body portion and a locking portion at each of the two ends thereof, said support being provided with a tubular portion having a plurality of pairs of openings, the body portions of said locking members being arranged circumferentially around the inner surface of said tubular portion and the locking portions of said locking members projecting outwardly through the openings in said tubular portion, said projecting locking end portions being adapted for removable locking engagement with the locking portions of the neck when the closure is applied to the neck.

1,786,723. CLEANING IMPLEMENT. FREDERICK W. STEIN, Atchison, Kans. Filed May 9, 1929. Serial No. 361,622. 1 Claim. (Cl. 15—134.)



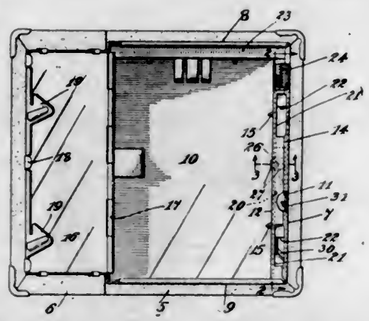
In a cleaning implement having a compartment adapted to hold a cleaning liquid and having a filling opening, a removable closure for said opening having an extension extending into said compartment, said extension having in its inner end a recess, and a removable cap on its inner end, said extension having between said recess and its outer end a passage communicating with said compartment and extending to the outer end of said closure, a wick extending through said passage into said compartment, and a rubbing member of absorbent material carried by and extending outwardly beyond said closure and contacting with said wick.

1,786,724. PEACH PITTER. GEORGE WILCOX, Riverside, Calif., assignor to California Canning Machinery Co., Los Angeles, Calif. Filed June 12, 1924. Serial No. 719,502. 59 Claims. (Cl. 146—28.)



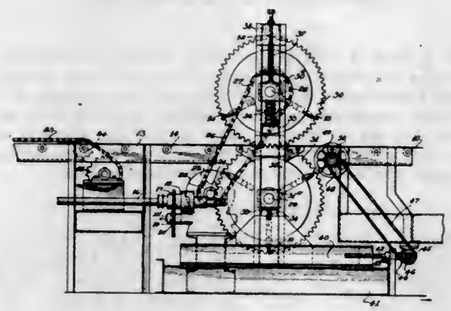
1. In a pitting machine, the combination of: an incisor comprising a central blade, adapted to engage the pit of a fruit, and lateral incisor blades; means for impaling a fruit on said incisor; and flexible severers mounted to permit relative movement between said severers and said fruit.

1,786,725. SAVINGS BANK. DAVID H. ZELL, Brooklyn, N. Y. Original application filed May 15, 1928, Serial No. 277,978. Divided and this application filed Dec. 10, 1929. Serial No. 412,966. 6 Claims. (Cl. 232—6.)



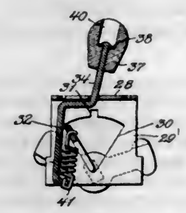
1. In combination with a rectangular casing body and a closure therefor hinged upon one marginal wall of the casing body, flexibly connected covers for said casing body and the closure, a metal strip attached to the cover for the casing body having angularly disposed portions representing the side and end edges of book leaves, said casing body having its other marginal walls engaged with the inner faces of said angular portions of the metal strip, and each of said metal strip portions having integrally formed means releasably engaging said body walls of the casing to rigidly and detachably secure said casing body and the cover member in fixed relation to each other.

1,786,726. BOARD-CUTTING MACHINE. CARL ABSMEIER, Maywood, Ill., assignor to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 6, 1929. Serial No. 337,748. 4 Claims. (Cl. 164—68.)



1. In a cutting machine, means for advancing a continuous strip of sheet material, a shaft rotatably supported adjacent said sheet material, a plurality of cutting knives adjustably supported on said shaft, means for adjusting the position of one of said knives circumferentially with reference to a second knife and means for rotating said shaft so that said knives operate on said sheet material.

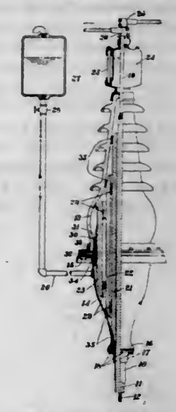
1,786,727. ELECTRIC SWITCH. FREDERICK B. ADAM, St. Louis, Mo. Filed Jan. 29, 1923. Serial No. 615,626. 7 Claims. (Cl. 200—67.)



7. A switch comprising a top having a slot therein, and sides, a bridge member carrying switch-blades, said bridge being supported by said frame, a one-piece switch-operating lever angularly bent to form a fulcrum portion adjacent said top, and extending through the slot therein, and a spring connecting the bridge member and the operating lever.

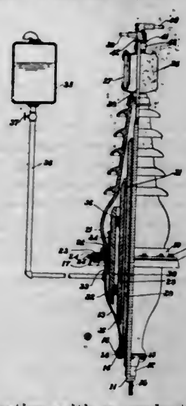
1,786,728. POTHEAD FOR CONDUCTORS. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Jan. 16, 1925. Serial No. 2,752. 6 Claims. (Cl. 247—6.)

1. The combination with a conductor having a dielectric covering and an outer metal sheath, of means for preventing flashover at the termination of said sheath, said means comprising a closed casing having a portion of the outer wall thereof formed of conducting material surrounding said conductor and dielectric covering and connected with said sheath at points closely adjacent the outer surface of said dielectric covering, and forming a sharply acute angle with the surface of said covering and gradually tapered outwardly away from said surface, the divergence of said wall from said surface being



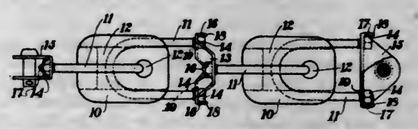
gradually increased at a distance from its point of closest approach to said surface to form an outwardly curved portion of said wall.

1,786,729. POTHEAD FOR INSULATED CONDUCTORS. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Jan. 16, 1925. Serial No. 2,754. 6 Claims. (Cl. 247—6.)



1. The combination with a conductor having a dielectric covering and an outer metal sheath, of a pothead for said conductor comprising an inverted metallic bell having an opening through its lower end for receiving said conductor, means for securing said sheath to said bell adjacent said opening, resilient means for supporting the portion of said conductor within said pothead and a tubular dielectric member surrounding said conductor within said pothead and supported on said bell.

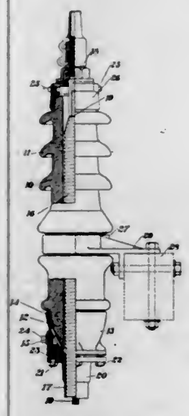
1,786,730. FITTING FOR INSULATORS. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of Ohio. Filed June 1, 1926. Serial No. 112,745. 7 Claims. (Cl. 287—20.)



7. An insulator fitting comprising a threaded member and a nut thereon, a member cooperating with said thread-

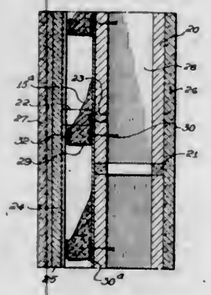
ed member and having a lug engaging said nut to prevent rotation of said nut relative to the second named member, said lug having means thereon for retaining said members against relative displacement in one direction longitudinally of said threaded member and for holding said lug and nut in cooperative relation.

1,786,731. TERMINAL HOUSING FOR CABLES. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of Ohio. Filed Aug. 5, 1926. Serial No. 127,436. 11 Claims. (Cl. 247—6.)



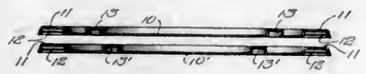
1. The combination with a cable having an insulating covering and an outer sheath of conducting material, of a rigid tubular member having fluid tight walls of dielectric material forming a weather proof casing member surrounding said insulating covering and having one end thereof tapered outwardly and disposed adjacent the end of said sheath, the outer tapered surfaced of said dielectric member being coated with conducting material electrically connected with said sheath.

1,786,732. BUILDING INSULATION. BRUNO E. BALDUF, Chicago, Ill., assignor to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 21, 1929. Serial No. 401,165. 3 Claims. (Cl. 72—16.)



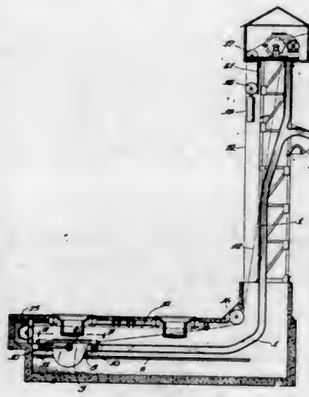
1. In an insulating wall construction, a pair of spaced, substantially parallel wall panels, cushioning means for connecting such panels together, a low density filling material in the space between said wall panels and shelves between said wall panels adapted to divide said filling material up into a plurality of independent bodies of material to prevent the settling thereof.

1,786,733. LID OR CLOSURE. LEON BENOIT, Chicago, Ill. Filed Dec. 30, 1929. Serial No. 417,309. 2 Claims. (Cl. 220—97.)



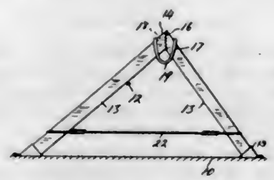
1. A stack of closures comprising closures of a plurality of series in alternate relationship, each closure of a series being superposed and in juxta-position to a closure of a different series, all the closures being provided with annular ribs spaced from the edges thereof, the diameter of the ribs being different in the closures of each series, whereby nesting of adjacent closures is prevented.

1,786,734. MATERIAL-HANDLING PLANT. CARL F. BLEDSOE, Chicago, Ill., assignor to Ogle Construction Company, Chicago, Ill., a Corporation of Illinois. Filed June 21, 1929. Serial No. 372,626. 4 Claims. (Cl. 214—119.)



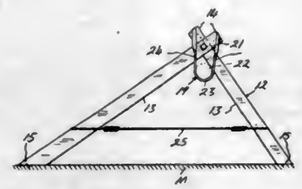
1. In a material handling plant, horizontal guides terminating in vertical guides, a pair of track members below the horizontal guides, a bucket having rollers traveling on said guides and forward rollers for traveling on said track, a bail having rollers traveling on said guides and links connecting said bail and bucket coaxially with said first mentioned rollers and means attached to said bail for operating the same.

1,786,735. DECKING DEVICE FOR FREIGHT CARS. ALFRED COPONY, Mount Clemens, Mich., assignor to Copony Auto Loading Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 24, 1930. Serial No. 430,888. 13 Claims. (Cl. 105—368.)



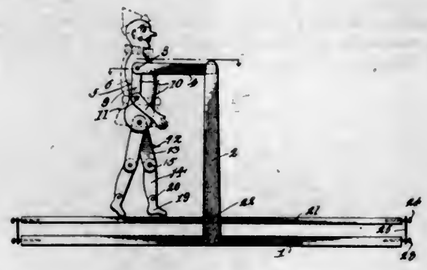
1. In an automobile decking device, a pair of downwardly diverging frame members having their upper ends arranged in abutting relation, and a hub supporting saddle having a portion substantially encircling the abutting ends of said frame members to support said saddle and to maintain said frame members assembled.

1,786,736. DECKING DEVICE FOR FREIGHT CARS. ALFRED COPONY, Mount Clemens, Mich., assignor to Copony Auto Loading Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 24, 1930. Serial No. 430,889. 6 Claims. (Cl. 105—368.)



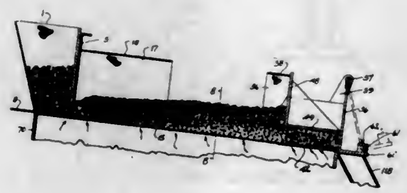
1. In a decking device for automobiles or the like in freight cars, a pair of downwardly diverging frame members having their upper ends intersecting one another, a saddle strap having its ends engaging respectively the said ends of said frame members, and a fastening element extending through the intersecting ends of said frame members and the ends of said saddle strap.

1,786,737. MOTION TOY. CHARLES R. CREW, Edgewood, Md., assignor to Lloyd C. Adley, Llanerch, Pa. Filed May 29, 1928. Serial No. 281,446. 2 Claims. (Cl. 46—40.)



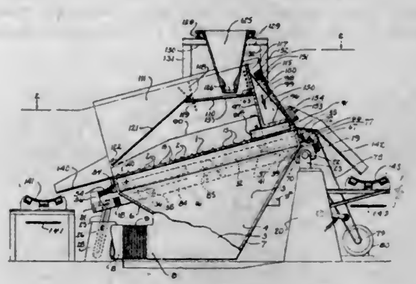
1. As an article of manufacture, a toy including a base, parallel uprights fixed to and extending upwardly from said base, a figure, means carried by said uprights and supporting said figure, an elongated platform extending between said uprights, means pivotally supporting said platform upon said uprights below said figure and above said base, a pin carried by each end of said platform and said base, and elastic bands yieldably connecting the pins of the platform to the pins of the base, as and for the purpose set forth.

1,786,738. PROCESS AND MECHANISM FOR DIVIDING INTERMIXED MATERIALS. KENNETH DAVIS, St. Benedict, Pa., assignor, by mesne assignments, to Peale-Davis Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 15, 1922. Serial No. 553,250. 20 Claims. (Cl. 209—467.)



1. A mechanism for separating intermixed divided materials including in combination means for maintaining a bed of the materials, means for subjecting the rearward portion of the bed to the action of air pressure currents in a plurality of directions and for subjecting a more forwardly part of the bed only to air pressure currents upwardly therethrough to progressively stratify and separate the materials and means for continuously discharging the separated materials at different points by the action of the air and the motion of the table.

1,786,739. METHOD AND MECHANISM FOR SEPARATING DIVIDED MATERIALS. KENNETH DAVIS, Ebensburg, Pa., assignor, by mesne assignments, to Peale-Davis Company, Wilmington, Del., a Corporation of Delaware. Filed June 7, 1922, Serial No. 566,639. Renewed June 9, 1926. 50 Claims. (Cl. 209—467.)



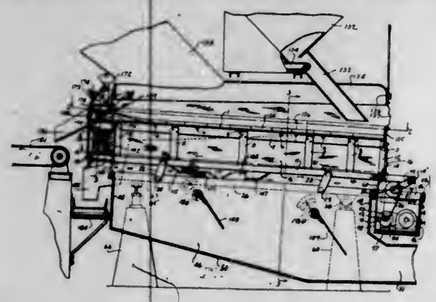
9. A mechanism for separating intermixed divided materials of different specific gravities, comprising an air-pervious table, transversely extending, material propelling projections on the upper surface of the table, means for passing air upwardly through the table, and means for vibrating the table in a direction having a component longitudinally thereof, the vibrating movement being short and quick in one direction, and slow in the opposite direction, whereby the materials are stratified and moved up and down the table to different places of discharge.

43. The process of purifying coal which comprises maintaining a continuous, traveling bed of substantial depth of raw coal which has not been subjected to close preliminary size classification, including in intermixture relatively large pieces and fine particles such as are present in coal as it comes from the mine, vibrating the bed, passing lifting and loosening air currents simultaneously through substantially all parts of the unsized bed to loosen the intermixture and to float the lighter material, and regulating the air action along the bed to effect a gradual and progressive sinking of the heavier impurities, continuing said vibration and air action throughout the travel of the bed until all sizes of heavier impurities have been settled to an inferior stratum and substantially all the coal is flotant as a superior stratum, and separately delivering said strata.

1,786,740. METHOD AND MECHANISM FOR SEPARATING INTERMIXED DIVIDED MATERIALS. KENNETH DAVIS, Ebensburg, Pa., assignor, by mesne assignments, to Peale-Davis Company, Wilmington, Del., a Corporation of Delaware. Filed May 28, 1924, Serial No. 716,322. Renewed Sept. 24, 1929. 57 Claims. (Cl. 209—467.)

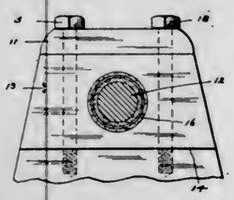
1. A mechanism for separating intermixed divided materials including in combination an air pervious table for a bed of the materials and material separating means comprising separating partitions in sets at either side

of the table and converging inwardly and forwardly of the table but terminating short of the center thereof, the



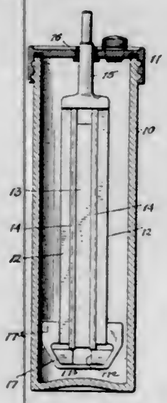
ends of the successive partitions being farther apart forwardly along the table to provide a forwardly widening passage for the heavier separated material along the table.

1,786,741. DEMOUNTABLE SHEAVE BEARING. SYLVANUS H. H. PARSONS, Coscob, Conn., assignor to Jacob Ruppert Schalk, Poughkeepsie, N. Y., Filed July 27, 1929. Serial No. 381,544. 1 Claim. (Cl. 308—18.)



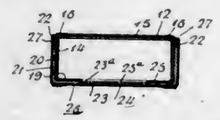
A demountable bearing for sheave blocks, comprising in combination with a housing having parallel sides formed with slots in their adjacent faces, of bearing blocks formed with alined bearings and adapted to be mounted within said slots, and retaining means for said blocks comprising bolts engaging both said blocks and the sides of the housing.

1,786,742. STORAGE BATTERY. CARL J. DUNZWEILER, Cleveland, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a Corporation of West Virginia. Filed Mar. 3, 1924. Serial No. 696,510. 4 Claims. (Cl. 136—81.)



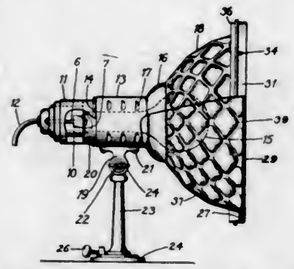
1. A storage battery comprising a container, a battery element including a plurality of plates suspended above the bottom of the container, and a clamp independent of the supporting means, said clamp being resilient and having a gripping engagement with opposite side faces of the element and having a portion extending across the bottom of the element, said portion being so formed as to prevent accumulation of material thereon.

1,786,743. BOX. MARTIN FEYBUSCH, New York, N. Y., assignor to New Jersey Machine Corporation, Hoboken, N. J., a Corporation of New Jersey. Filed Apr. 6, 1929. Serial No. 352,938. 4 Claims. (Cl. 206—44.)



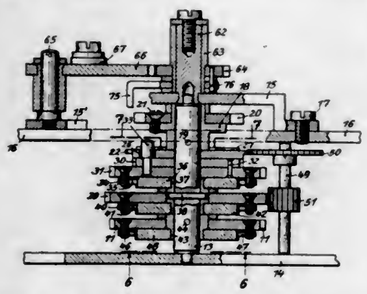
1. A container comprising a cover having a top and a side flange portion, said top being provided with a sight opening, a transparent element secured to the outer face of said top and closing said opening, and a relatively narrow binding strip secured to the outer face of said flange portion only along the upper edge portions thereof and to the marginal part of said transparent element in overlapping surface engagement therewith to hold the transparent element in position and to frame the same.

1,786,744. ILLUMINATING DEVICE. EDWARD M. GAREY, Brooklyn, N. Y. Filed Feb. 8, 1927. Serial No. 166,612. 4 Claims. (Cl. 240.—103.)



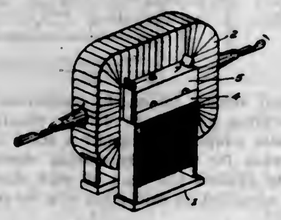
1. An illuminating device comprising a reflector having an inner polished surface formed with a plurality of protuberances forming substantially pyramidal reflecting surfaces arranged in quincunx formation.

1,786,745. FARE INDICATOR. KARL GEHLEN, Villingen, Germany, assignor to Kienzle Uhrenfabriken Aktiengesellschaft, Schwenningen, A. N., Germany, a Corporation of Germany. Filed Mar. 1, 1928. Serial No. 258,207. 4 Claims. (Cl. 235—30.)



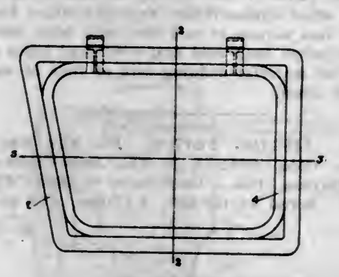
1. A fare indicator, comprising the figure wheels, a clock work for operating said figure wheels, a main mechanism intermediate said clock work and figure wheels including a part running idle for a certain period of time after throwing the clock work into operation, and a subsidiary gearing intermediate the clock work and figure wheels operative while the said part runs idle for advancing the figure wheels from the clock work.

1,786,746. TERMINAL BLOCK FOR CURRENT TRANSFORMERS. JESSE B. GIBBS, Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 18, 1929. Serial No. 333,386. 5 Claims. (Cl. 200—2.)



1. A current-transformer terminal block comprising a base, secondary terminals and a spring-closed contact switch mounted on the base for short-circuiting said terminals, and a cover formed to be secured upon said base in either of two positions, said spring-closed contact switch being arranged to be automatically opened when said cover is positioned upon said base in one of its said two positions.

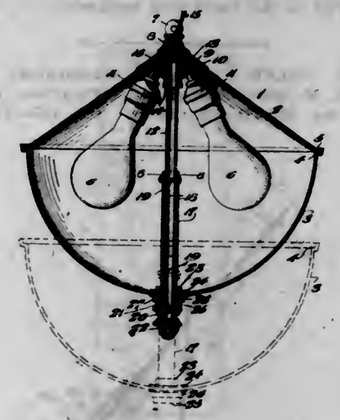
1,786,747. DOOR FOR RAILWAY HOPPER CARS. GARTH G. GILPIN, Riverside, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 5, 1929. Serial No. 397,592. 3 Claims. (Cl. 105—280.)



1. A hingeable door forming part of the load retaining means of a railway dump car comprising a marginal portion, a depressed portion in a spaced apart plane therefrom, and a web connecting said portions, said marginal portion being inclined downwardly toward the outer edges of the door.

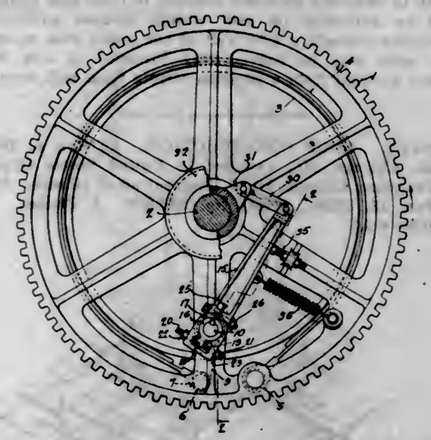
1,786,748. LIGHTING FIXTURE. EDGAR A. GILLINDER, Philadelphia, Pa. Filed Dec. 21, 1928. Serial No. 327,501. 8 Claims. (Cl. 240—78.)

4. In a lighting fixture, an upper fixed conical closure of glass, a lower bowl of glass which is movable with respect to the fixed closure, an inner tubular member carried by said fixed closure and extending through said bowl, an outer lower tubular member having telescopic relation with the first mentioned tubular member, said bowl being carried by the lower of said members, means including a slot in said inner member and a transverse pin connection in said outer member for guiding said telescopic parts, resilient means acting as washers arranged



between the inner and outer surface of said bowl, means for securing said bowl to said outer tubular member, and means for clamping said bowl in elevated position.

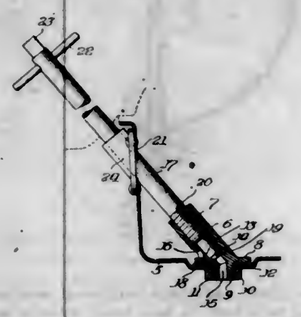
1,786,749. OPERATING MECHANISM FOR CLUTCH AND BRAKE BANDS. GEOFFREY M. HARRY, Milwaukee, and CHARLES STERNBERGER, West Allis, Wis., assignors to Harnischfeger Corporation, Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 8, 1927. Serial No. 218,133. 6 Claims. (Cl. 192—36.)



1. A power clutch comprising a drum adapted to be driven, a rotary driving member therefor, a clutch band cooperable with said drum and having one end anchored on said driving member, a crank mounted on said driving member and engaged with the other end of said band, operating mechanism for the crank including a control drum, an operating lever for the crank, mechanical linkage interposed between the operating lever and the control drum and utilizing the initial relative movement between the driving member and the control drum to quickly impart operating movement to the operating lever, means cooperating with the operating lever to constrain it to partake of movement through its operating positions only, and adjustable fastening means between the operating

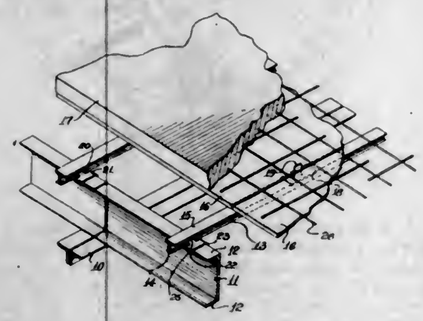
lever and the crank and providing, in its secured position, a positive connection between the lever and the crank but adjustable to shift the crank relative to the lever while leaving the lever stationary and in proper operative relation relative to the mechanical linkage.

1,786,750. VALVE. ALBERT A. HASSELQUIST and INGOLF H. M. ROGNLIE, Elgin, Ill. Filed Nov. 10, 1927. Serial No. 232,285. 3 Claims. (Cl. 137—21.)



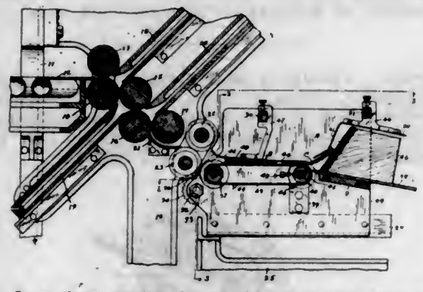
1. In combination with a crank case adapted to contain an oil bath and provided with an outlet opening on its bottom surface a substantial distance from the side wall of the case, a valve housing secured to the case and disposed over said opening for controlling the flow therethrough, the housing being provided with a passage in register with the opening, a valve seat in said passage inside of the crank case, a valve closure member threaded in said housing and adapted to cooperate with said seat when in inwardly threaded position to close said passage, and an extension on said closure member protruding upwardly through a side wall of the crank case whereby the same may be conveniently threaded to and from closed position from a position remote from said opening.

1,786,751. ROOF CONSTRUCTION. ARTHUR A. HEEREN, Chicago, Ill., assignor to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 18, 1929. Serial No. 340,810. 4 Claims. (Cl. 108—6 5.)



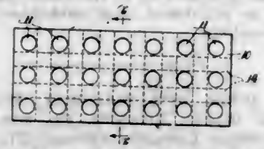
4. In a building construction, a series of beams in spaced, parallel relation, a series of metallic support members extending at right angles to said beams and connected thereto, said support members having flanges of greater area than the portion of the support members connected to the beams, and a cementitious slab supported by said flanges.

1,786,752. STACKER. REUBEN HITCHCOCK, Cleveland, Ohio, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 23, 1928. Serial No. 321,352. 8 Claims. (Cl. 271—86.)



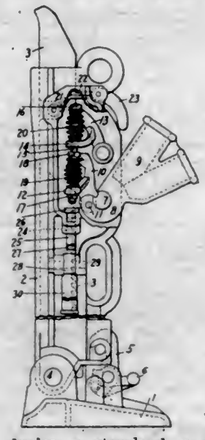
1. In a sheet stacker for use in connection with paper handling machines adapted to deliver sheets one after another, a table adapted to support a stack of sheets on edge, and means for positively moving sheets one at a time edgewise against the rear of said stack, whereby the latter is advanced on said table step by step.

1,786,753. TERRA-COTTA ARTICLE. ADOLPH F. HOTTINGER, Chicago, Ill., assignor to Northwestern Terra Cotta Company, Chicago, Ill., a Corporation of Illinois. Original application filed Oct. 3, 1927, Serial No. 223,542. Divided and this application filed Nov. 10, 1928. Serial No. 318,362. 6 Claims. (Cl. 72—18.)



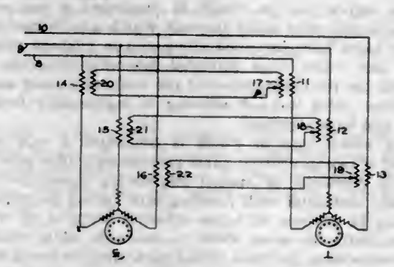
1. A terra cotta article having an imperforate front face, a plurality of symmetrically arranged round holes of uniform diameter each having its axis normal to said face and other symmetrically arranged round holes having their axes normal to said face, said other holes being of less diameter than said first-mentioned holes and disposd in the material defining sets of four of said first-mentioned holes.

1,786,754. LIFTING DEVICE. ION VON KERT HOTT, Dayton, Ohio, assignor to The Joyce-Cridland Company, Dayton, Ohio, a Corporation of Ohio. Filed Jan. 3, 1927. Serial No. 158,639. 7 Claims. (Cl. 254—111.)



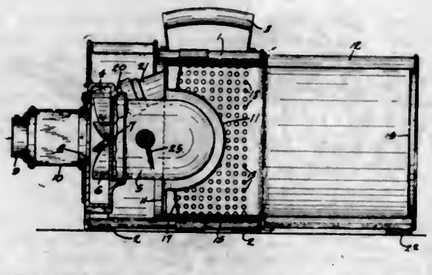
1. In a lifting device, a standard, a toothed element carried by said standard, a lifting pawl and a detent pawl supported on said standard and cooperating with said toothed element, means to actuate said lifting pawl, a rod connected with and capable of longitudinal movement with relation to said pawls, springs carried by said rod and acting on said pawls, means to control the longitudinal movement of said rod and thereby control the operation of said pawls, and other means to control the longitudinal movement of said rod to cause both of said pawls to assume inoperative positions with relation to said toothed element.

1,786,755. ROTARY EARTH-DRILLING SYSTEM. HENRY D. JAMES, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 23, 1924, Serial No. 757,597. Renewed May 21, 1930. 3 Claims. (Cl. 172—239.)



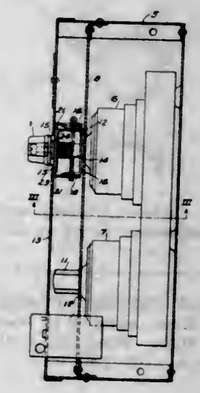
2. The combination with a working tool, of an alternating-current-motor for operating the tool, a second alternating-current motor for feeding the tool against the work, a source of alternating-current power for the motors, individual circuits from said source to each motor, interconnected current transformers, connected in each of said individual circuits, for controlling the operation of the motor for feeding the tool in response to the load current of the motor operating the tool.

1,786,756. VACUUM CLEANER. EDWIN JUELSON, Chicago, Ill. Filed Nov. 24, 1928. Serial No. 321,618. 6 Claims. (Cl. 183—36.)



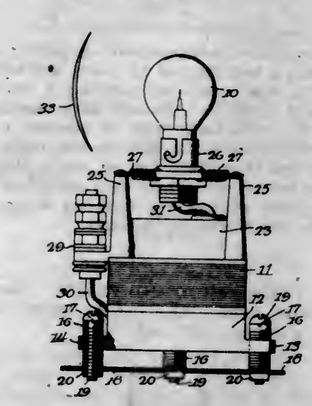
1. In a vacuum cleaner, in combination a cylindrical casing, floor engaging feet carried by one side thereof adapted to rest on the floor and thereby support said casing with its axis horizontal, a pump unit carried by one end of said casing, a dust receptacle carried by the other end of said casing, said pump unit comprising a fan casing having an inlet through the first mentioned end of said first casing, a fan in said fan casing, and an electric motor operatively connected to said fan and located between said fan casing and said dust receptacle, said dust receptacle comprising a cylindrical perforated side wall, an imperforate end wall, and filtering fabric covering the perforations, a discharge conduit leading from said fan chamber to said dust receptacle past said motor, a flexible hose communicating with said inlet, and a carrying handle attached to that side of said first casing which is opposite said feet.

1,786,757. SWITCH MECHANISM. HUBERT K. KRANTZ, Rockville Center, N. Y., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 23, 1926. Serial No. 104,097. 5 Claims. Cl. 200—50.)



1. Switch mechanism comprising a housing having an opening, a cover for the opening, a current-controlling switch operable exteriorly of the housing, a reversing switch connected to the controlling switch to be inaccessible when the cover is closed and means interlocking the controlling switch with the cover whereby the latter is retained in closed position to prevent access to the reversing switch so long as the controlling switch is in closed position.

1,786,758. SIGNAL LAMP. CARL H. LARSON, Elkhart, Ind., assignor to The Adlake Company, a Corporation of Illinois. Filed Oct. 11, 1928. Serial No. 311,722. 5 Claims. (Cl. 240—44.2.)

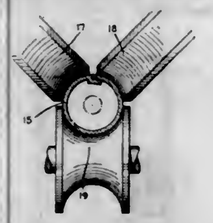


4. A lamp comprising a base having a plurality of apertured lugs, vertically adjustable tubular feet setting through the lugs, and in threaded engagement therewith, securing screws setting through the feet and in threaded engagement therewith, a plurality of posts rising from the base, a lamp socket positioned between the posts, and springs extending between the posts and the lamp socket for supporting the latter and protecting it from injury.

1,786,759. ELECTRIC WELDING. JOHN F. LAWSON, Brooklyn, N. Y. Filed June 24, 1927. Serial No. 201,047. 16 Claims. (Cl. 219—10.)

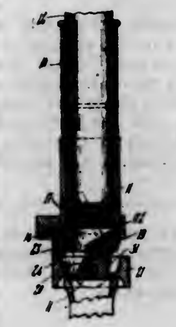
1. The method of electric welding which consists in depressing the metal at one side of the seam so as to lap

a broad surface of said metal across the edge surface of the metal at the opposite side of the seam pressing said edge surface to said board surface, and passing current



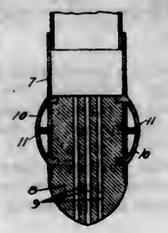
between said two surfaces, thereby welding said edge surface of the undepressed metal to said board surface opposed to it.

1,786,760. BOTTLE CAPPER. EUGENE R. LEIGHTON, North Andover, Mass., assignor to Jennie E. Leighton, North Andover, Mass. Filed Feb. 3, 1928. Serial No. 251,551. 6 Claims. (Cl. 226—92.)



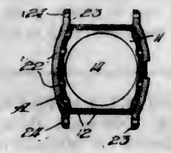
1. A device of the class described, comprising a tubular member having a bore adapted to receive and hold a stack of milk bottle caps, means for removing a cap from the bottom of said stack, an apertured block adapted to rest on the top of a milk bottle with its aperture registering with the mouth of the bottle, said aperture having a diameter slightly less than that of a cap, and a plunger movable through said aperture, said block and plunger having cooperating guide surfaces for inverting a cap after its removal from the bottom of the stack.

1,786,761. CASING SHOE AND VALVE. JOHN Q. LITTLE, Whittier, Calif. Filed Oct. 21, 1929. Serial No. 401,144. 6 Claims. (Cl. 166—1.1.)



1. A casing shoe formed of resilient material with combination guide and centering members on the outside of the casing and inserted through the casing and into said casing shoe and vulcanized thereto, for the purpose described.

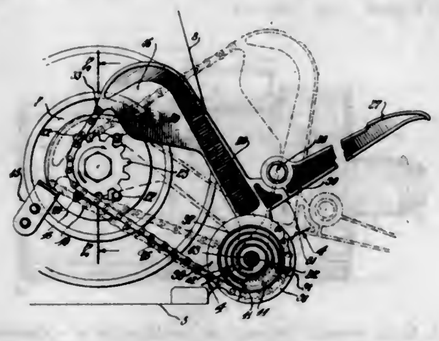
1,786,762. WATCHCASE. DANIEL P. LYONS, Elgin, Ill., assignor to Illinois Watch Case Company, Elgin, Ill., a Corporation of Illinois. Filed Sept. 7, 1927. Serial No. 218,037. 8 Claims. (Cl. 58—88.)



2. A watch case in which is comprised a case center having double side walls through which are formed registering holes, bars extended along and in contact with the outer side walls, pins extended laterally from the bars through the proximate holes of the walls and upset against the inner faces thereof whereby to inseparably lock the walls and bars together.

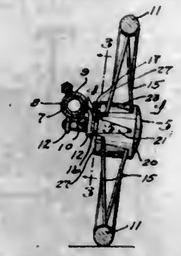
8. A watch case in which is comprised a case center formed of two interfitted parts presenting double side walls with a plurality of spaced registering openings therethrough, and outer wall forming bars having portions conforming in contour with the external surfaces of, and of substantially the same width as said side walls, said contour conforming portions of the bars being in contact with said surfaces, and means on the bars received through the openings in the side walls to provide an inseparable connection between the bars and the two interfitting parts of the case center.

1,786,763. ENGINE STARTER. PERRY E. MACK, Milwaukee, Wis., assignor to Briggs and Stratton Corporation, Milwaukee, Wis., a Corporation of Delaware. Filed July 18, 1928. Serial No. 293,721. 15 Claims. (Cl. 74—55.)



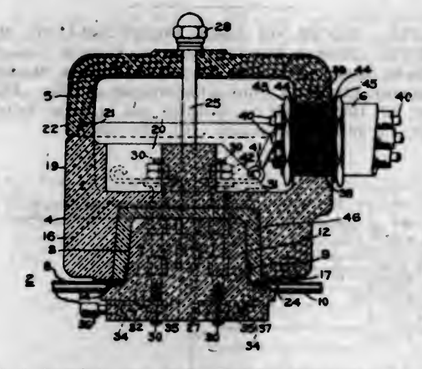
1. In a starting device for gas engines and the like having a shaft, a member for imparting rotation to the shaft, a flexible drive member engageable with said member, a pivoted lever, means connecting one end of the flexible drive member with the pivoted lever, means connected with the other end of the flexible drive member for yieldably holding said flexible member in an inactive position, movement of said pivoted lever engaging the flexible drive member with the rotation imparting member to turn the same, a foot pedal for moving the pivoted lever, and means pivotally connecting the foot pedal with the lever whereby the same may be folded therealong to an inactive position and extended to a position of use.

1,786,764. WHEEL AND WHEEL JOURNAL. JULIUS A. MAHR, Minneapolis, Minn. Filed Nov. 6, 1929. Serial No. 405,113. 6 Claims. (Cl. 301—108.)



1. A box for encasing the hub of a wheel having wire spokes and comprising inner and outer caps provided with capping flanges telescoped the one on the other said inner cap having a spindle passageway.

1,786,765. TERMINAL STRUCTURE. RALPH E. MARBURY, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 22, 1927. Serial No. 200,640. 9 Claims. (Cl. 173—311.)



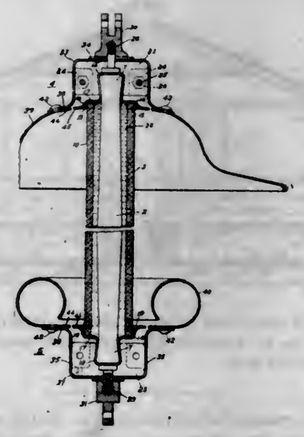
1. A terminal comprising a wall structure having an opening therethrough, a single homogeneous insulating bushing member disposed in the opening, a plurality of conductors extendng through said member, and an insulating structure having a portion of substantially cup-shape sealed to the wall structure in position over the outer end of said bushing member and providing terminal-supporting means for the conductors.

1,786,766. PROCESS OF MANUFACTURE OF PARANITRANILINE. HAMILTON MERRILL, South Orange, N. J., assignor to Tower Manufacturing Co., Inc., a Corporation of New York. Filed June 11, 1925, Serial No. 36,552. Renewed May 28, 1926. 12 Claims. (Cl. 260—130.5.)

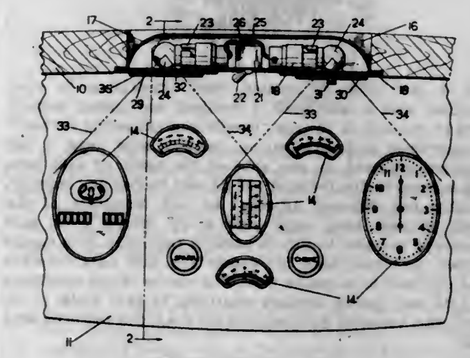
1. A process of manufacturing para-nitraniline which consists in heating para-nitro-chlor-benzol with ammonia, treating with an alkali, filtering the charge while hot enough to keep the nitraniline in solution, and recovering the purified product in the filtrate.

1,786,767. INSULATOR. FREDERIC H. MILLER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 16, 1928. Serial No. 285,939. 8 Claims. (Cl. 173—318.)

2. An insulator comprising a load-sustaining insulating member, a tubular member surrounding the same, an end-closure member for the tube having a substantially cup portion for an end of said load member and a terminal structure for the load member disposed in transverse gripping relation to said cup and to said end of the load member.



1,786,768. INSTRUMENT-BOARD LIGHT. ALFRED MOORHOUSE, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 28, 1928. Serial No. 308,954. 11 Claims. (Cl. 240—8.16.)

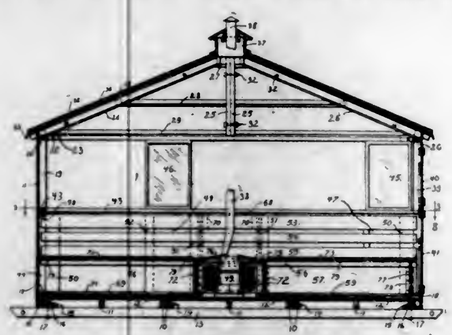


1. A lamp comprising a casing having a supporting flange, a support positioned transversely in the casing, lamp sockets on the support, lamps in the sockets, a switch on the support positioned intermediate the sockets and connected thereto, the operating lever for the switch depending from the support, a cover plate for the casing positioned on the flange, the cover plate having openings registering with the lamps and closures for the openings.

1,786,769. FARROWING HOUSE. EVAN B. MORRIS, Cedar Bluffs, Nebr.; Mary L. Morris administratrix of the estate of said Evan B. Morris, deceased. Filed Aug. 20, 1927. Serial No. 214,314. 12 Claims. (Cl. 119—16.)

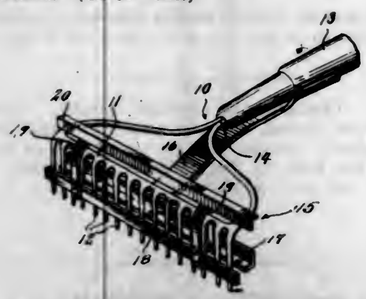
1. In a farrowing house, the combination with a suitable inclosure, of a plurality of partitions arranged to divide the space within said inclosure into a plurality of main pens, there being a laterally spaced pair of said partitions

between each pair of the main pens, the space intermediate said pairs of partitions forming litter-pens, there being open-



ings in the partitions to admit smaller animals from each main pen to an adjacent litter-pen, and removable covers for said litter-pens.

1,786,770. SELF-CLEANING RAKE. WILLIAM L. MYERS, St. Louis, Mo. Filed Nov. 5, 1927. Serial No. 231,234. 5 Claims. (Cl. 55—146.)



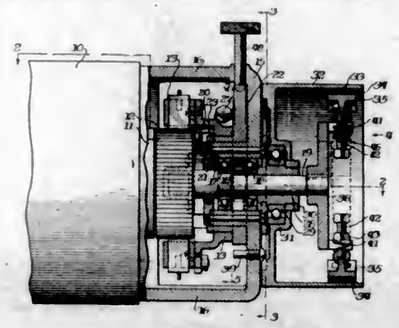
1. A self cleaning garden rake comprising in combination with a rake head, a resilient leaf spring support fixed at one end to the rake handle and extending forwardly therefrom and terminating short of said head, a bar disposed adjacent to one side of the teeth of said rake and secured to the forward end of said leaf spring support, another bar disposed adjacent to and forwardly of the teeth of said rake, said bars being spaced from said teeth and movable in planes parallel therewith, and means arched over said head for connecting said bars together whereby said bars can be moved by virtue of the resiliency of said leaf spring support relatively to said teeth to remove the material accumulated between the teeth of said rake.

1,786,771. DRAIN CONNECTION. EDWARD F. NIEDECKEN, Milwaukee, Wis. Filed Feb. 20, 1928. Serial No. 255,717. 3 Claims. (Cl. 285—49.)



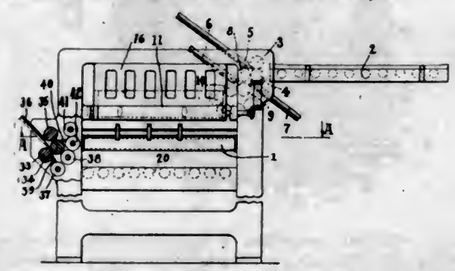
1. A drain fitting for the outlet of a receptacle comprising an annular body fitted flush against the receptacle around the outlet opening and having an outwardly projecting peripheral flange, a weld between the outer periphery of the flange and the receptacle, said body having a portion lapping the outlet opening and providing a strainer seat, said body also having an annular groove underlying the margin of the outlet opening, and means in the groove for sealing the interstice between the margin of the outlet opening and the body of the drain fitting.

1,786,772. MOTOR-CONTROL MEANS. JOHN D. NIES, Chicago, Ill., assignor to Kimble Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 6, 1928. Serial No. 310,690. 9 Claims. (Cl. 171—221.)



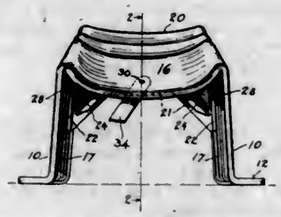
1. In combination, an alternating current electric motor having series characteristics, said motor having a commutator and brushes cooperatively associated with said commutator, biasing means for said brushes, adjustable means for limiting the action of said biasing means, and speed responsive means for shifting said brushes to limit the speed of said motor.

1,786,773. PAPER OR LIKE SHEET-FOLDING MACHINE. ERNEST EDWARD PALMER, Toronto, Ontario, Canada, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 10, 1927, Serial No. 218,762, and in Great Britain Sept. 13, 1926. 13 Claims. (Cl. 270—68.)



1. In a paper handling machine, a plurality of sheet feeding conveyors adapted to handle consecutively sheets passing through the machine single file, means at the delivery end of each conveyor for performing an operation upon the sheets, a sheet delivery conveyor, and a movable deflecting guide in connection with each of said operating means for feeding sheets onto said delivery conveyor without passing them over the succeeding sheet feeding conveyors.

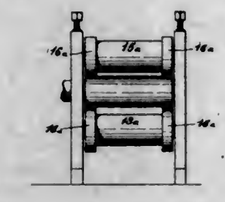
1,786,774. LOADING BLOCK. CARL B. PARSONS, Detroit, Mich., assignor to The Parsons Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 11, 1928. Serial No. 311,770. 10 Claims. (Cl. 188—32.)



1. A loading block formed of a single piece of sheet metal bent to provide an arcuate portion adapted to engage

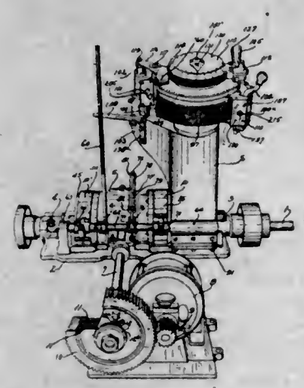
the tire of a vehicle wheel, said arcuate portion being formed on a radius substantially greater than that of the tire to be engaged thereby and corresponding more nearly to a distorted condition of such tire under heavy impact rather than normal load.

1,786,775. REDUCTION OF METAL BY ROLLING MILLS. ALEXANDER PATERSON, Buffalo, N. Y. Filed Oct. 27, 1928. Serial No. 315,488. 11 Claims. (Cl. 80—60.)



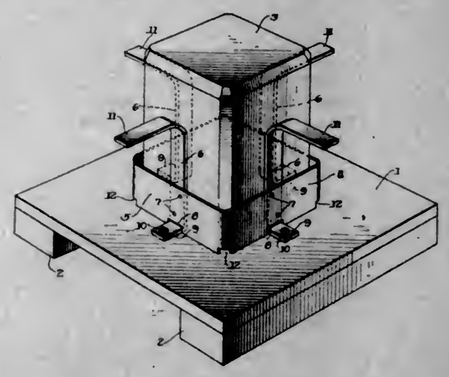
6. A multi-pass mill for reducing hot sheet metal comprising a housing, a plurality of rolls arranged on said housing to provide under operating conditions at least two passes of different convexity which are adapted to effect successive reductions of the sheet metal, one of the rolls being common to both passes.

1,786,776. SETWORKS. GEORGE M. PELTON, Milwaukee, Wis., assignor to The Filer & Stowell Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed July 2, 1928. Serial No. 289,881. 9 Claims. (Cl. 143—120.)



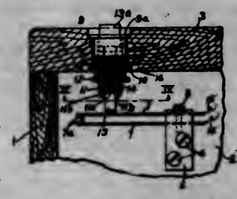
9. A sawmill setworks including a set shaft and means for abruptly checking the advance of the knees, planetary bear mechanism connected to said set shaft for rotating the same, said planetary gear mechanism having manually operable brake means controlling its operation, and a relatively light power high speed motor drive connected to and actuating said planetary gear mechanism.

1,786,777. FEEDER. GROVER F. PFEIFFER, Quincy, Ill., assignor to Moorman Manufacturing Company, Quincy, Ill., a Corporation of Illinois. Filed Aug. 5, 1929. Serial No. 383,652. 11 Claims. (Cl. 119—51.)



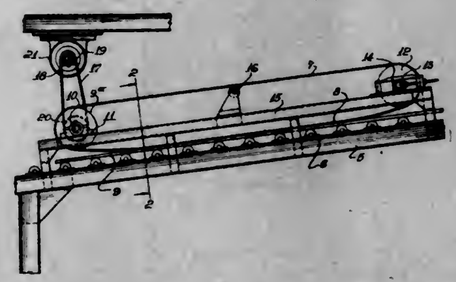
1. A feeder comprising a base, means connected with the base for holding a block of food in place thereon, said means including resilient members bearing against the side walls of said block.

1,786,778. SWITCH MECHANISM. RAYMOND T. PIERCE, Milburn, N. J., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 14, 1928. Serial No. 254,246. 13 Claims. (Cl. 200—54.)



1. The combination with a supporting member having a passage, of a switch-actuating member disposed in said passage and movable longitudinally thereof, and a sleeve carried by said supporting member and within which said actuating member is disposed, said sleeve terminating interiorly of said passage.

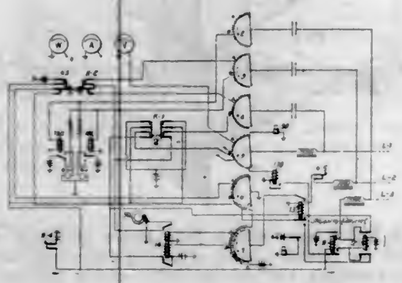
1,786,779. CONVEYER MECHANISM. FLOYD R. QUICK, Fort Dodge, Iowa, assignor to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 17, 1929. Serial No. 355,690. 4 Claims. (Cl. 198—165.)



1. In a conveyer mechanism for plaster boards, a roller conveyer having rotatably mounted idler rollers associated

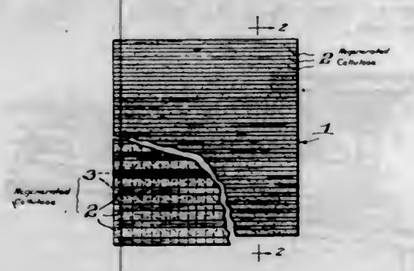
therewith, and a positively driven endless conveyer belt mounted above said roller conveyer, one reach of said endless conveyer being adapted to make frictional contact with articles on the rollers due solely to the weight of said reach, so as to cause the positive movement of said articles along said roller conveyer.

1,786,780. SUPERVISORY AND CONTROL SYSTEM. JUDSON O. SHEPHERD, Atlanta, Ga. Filed Dec. 17, 1925. Serial No. 76,026. 7 Claims. (Cl. 177—353.)



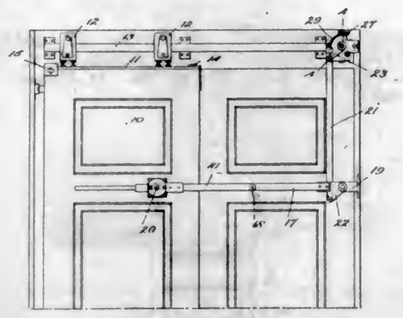
7. In a supervisory control system, a first station, a second station, a source of energy at each station, a step-by-step switch at each of said stations, a line connecting said switches, an electro-magnet at each of said stations comprising a first and second winding, means for connecting one terminal of the first winding at each station to all the odd contacts on the switches and one terminal of the second winding to all the even contacts on said switches, means for connecting the opposite terminals of the sources of energy and the opposite terminals of the second winding at each of said stations to opposite terminals of the sources of energy, a circuit connection between said sources of energy, stepping magnets for each of said switches, electro-magnetic means at each station for controlling the circuits of said stepping magnets, means whereby the electro-magnetic means at said first station controls the operation of said second station electro-magnetic mean, and means whereby said first station stepping magnet controls the circuit of said first station electro-magnetic means, whereby the stepping magnets are alternately energized and deenergized to operate the switches step-by-step in synchronism.

1,786,781. CLOTH-LIKE FABRIC. MILTON J. SHOEMAKER, Madison, Wis., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis., a Corporation of Delaware. Filed Aug. 13, 1928. Serial No. 299,454. 21 Claims. (Cl. 154—2.)



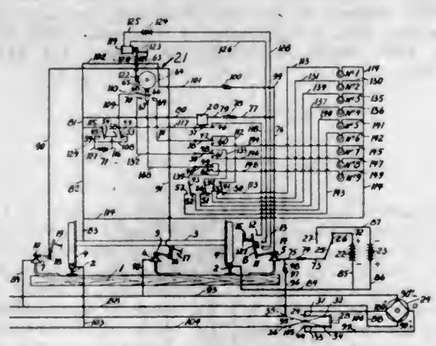
18. A fibrous sheet comprising water-absorbent cellulose fibers, fractional portions of individual fibers being cemented together by added regenerated cellulose into a supporting net-work to leave uncemented substantial portions of said cemented fibers.

1,786,782. AUTOMATIC DOOR CLOSER. HAROLD W. SHONNARD, Montclair, N. J., assignor to Elevator Supplies Company, Inc., a Corporation of New Jersey. Filed Nov. 2, 1925. Serial No. 66,206. 7 Claims. (Cl. 16—62.)



1. An automatic closing device for sliding doors comprising a vertical shaft provided with a toothed sector, an operating arm having a toothed sector adapted to swing in a vertical plane, an intermediate beveled gear meshing with said two toothed sectors and motive means for said vertical shaft.

1,786,783. AUTOMATIC TRAIN CONTROL. PAUL J. SIMMEN, Eden, N. Y., assignor to Simmen Automatic Railway Signal Company, Eden, N. Y., a Corporation of Arizona. Substitute for abandoned application Serial No. 650,247, filed July 9, 1923. This application filed Sept. 5, 1928. Serial No. 304,133. 7 Claims. (Cl. 246—49.)

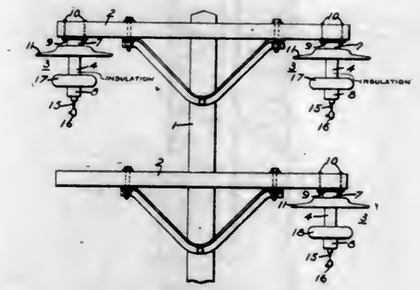


1. In an automatic train control, in combination, a source of direct current, a second source of direct current, a source of alternating current of a plurality of phases, three ramps, connections between one of the ramps and the sources of direct current and between all of the ramps and the source of alternating current, switching means interposed in these connections, a vehicle, train control means on the vehicle, the means on the vehicle connecting at times with the ramps and connected to the vehicle control means whereby a plurality of conditions are created in the vehicle control means.

1,786,784. INSULATOR. HAROLD B. SMITH, Worcester, Mass., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 13, 1923. Serial No. 651,246. 3 Claims. (Cl. 173—318.)

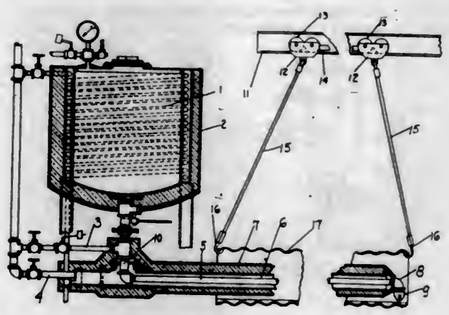
2. In a high-potential insulator device, the combination with a main supporting structure, of a plurality of insu-

lators depending therefrom each comprising a grounded annular laterally-projecting upper electrostatic-field-controlling member of relatively great diameter, an elongated insulating member depending therefrom, a positive laterally-projecting lower electrostatic-field-controlling member of lesser diameter, disposed outside, and co-operating with,



said upper member to confine flash-over thereto to a position laterally between the outer perimeter thereof and the insulating member and to direct a weakened central field portion substantially parallel to said insulating member, and means for connecting all of said parts in fixed relative positions.

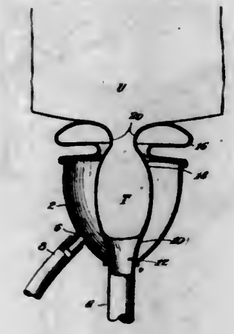
1,786,785. MACHINE FOR INTERNALLY COATING CULVERT PIPES. ARCH W. SPAULDING, Middletown, Ohio, assignor to The American Rolling Mill Company, Middletown, Ohio, a Corporation of Ohio. Filed Aug. 5, 1925. Serial No. 48,400. 3 Claims. (Cl. 91—43.)



3. In a machine for internally coating culverts, the combination with a source of supply of heated bitumen, such as an asphaltic compound, a pipe projecting from the said supply sufficiently for a culvert to be placed over it, a spraying device at the outer end of said pipe for projecting a downward spray of the bitumen, a support movable in the line of said pipe, and means on the support for supporting a culvert pipe in a horizontal plane, with means of moving the support and the culvert pipe with relation to the spraying device, said means adapted to move the culvert pipe longitudinally, while inhibiting a rotary motion thereof.

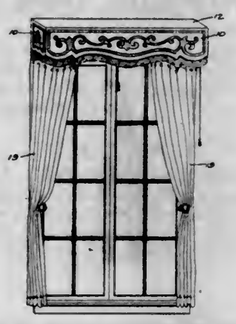
1,786,786. TEAT CUP. JACOB J. STAMPEN, Chicago, Ill., assignor to Babson Manufacturing Corporation, Chicago, Ill., a Corporation of Illinois. Filed May 14, 1927. Serial No. 191,288. 9 Claims. (Cl. 31—85.)

1. A teat cup of approximately conical shape having a lower central opening and an upper open edge, a milk tube projecting through the lower opening, a pulsator tube connected with the interior of the shell and a flexible inflation having a lower tubular portion connecting with the upper portion of the milk tube, said inflation including a cylindrical central portion having its lower portion lying with in the shell, said central portion having a flexible tubular extension of appreciably larger diameter folding outwardly and over the upper central portion of



the inflation with the free edge of the enlarged portion connected in an air tight manner to the upper end of the shell and projecting appreciably above said upper end of the shell to form a collapsible member adapted to massage the udder.

1,786,787. WINDOW-DRAPE ILLUMINATOR. FRED W. STEINMEYER, Oakland, Calif. Filed Mar. 5, 1929. Serial No. 344,390. 4 Claims. (Cl. 240—1.)

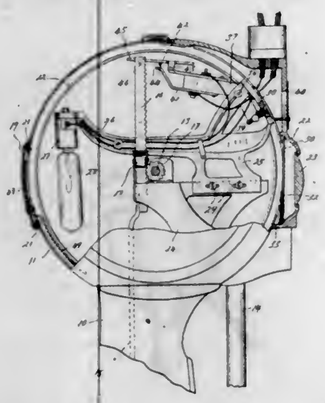


1. An illuminating device of the character described, for use in combination with a window; said device comprising an oblong box-like frame mounted across the upper portion of the window; transparent material provided on said frame; window draperies provided between the front face of the frame and the window and adapted to extend downwardly therefrom; artificial illumination means provided between the front of the frame and the window and adapted to reflect light rays from the rear of the draperies through said draperies and transparent material on said frames; and means for fastening the device in front of the window.

1,786,788. SCALE. WALTER F. STIMPSON and RICHARD L. SCHUHMANN, Louisville, Ky.; said Schuhmann assignor to said Stimpson. Filed Aug. 9, 1926. Serial No. 128,258. 5 Claims. (Cl. 240—2.11.)

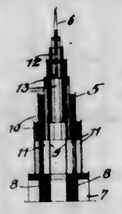
1. In a scale, a housing formed with a pair of sight openings, a drum indicator having translucent portions,

an indicator strip located adjacent one of said sight openings and provided with translucent portions and a



light arranged within said drum adjacent the other sight opening, for illuminating the drum at the sight openings and the translucent portions of said strip.

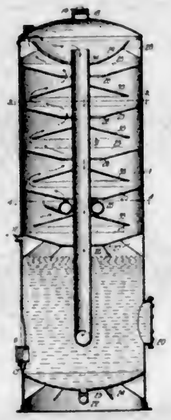
1,786,789. METHOD OF PRODUCING ILLUSORY ORNAMENTAL EFFECTS IN ARCHITECTURAL STRUCTURES. ROBERT M. SUTPHEN, Newark, N. J., assignor to American Enameled Brick & Tile Company, New York, N. Y., a Corporation of New York. Filed Feb. 21, 1929. Serial No. 341,657. 3 Claims. (Cl. 41—17.)



1. That method of creating optical effects with architectural structures of buildings and the like, which consists in incorporating in the surface of a building predetermined black and white substantially vertical and substantially horizontal areas positioned in relation to the architectural structure of the building, and projecting the light rays of a source of illumination on said surface for respectively substantially wholly absorbing and substantially wholly reflecting the light rays of said source of illumination to optically produce predominance and deletion of desired portions of the building structure.

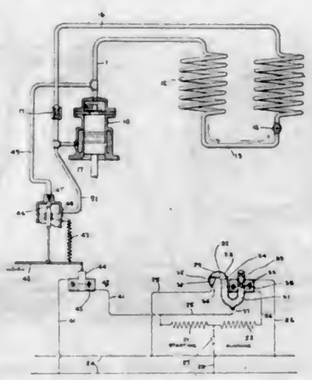
1,786,790. SEPARATOR. CLARENCE L. SUTTON, Tulsa, Okla. Filed Feb. 11, 1928. Serial No. 253,653. 1 Claim. (Cl. 183—2.7.)

A separator of the character described comprising a tank having a closed top, a series of baffle rings having outer peripheries sealed to the wall of the tank and inner peripheries forming an axial passage in the tank for restricting flow of fluid over said inner peripheries, a trap at the top of the tank spaced from the wall thereof, a gas outlet pipe in said passage spaced from the inner peripheries of the rings and having a gas inlet and extended into the trap, said pipe having an outlet adjacent



the lower end of the tank, and an inlet nozzle for mixed oil and gas arranged to discharge adjacent the outer periphery of the lowermost of said baffle rings.

1,786,791. REFRIGERATOR EQUALIZER VALVE. MATSON C. TERRY, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 28, 1927. Serial No. 222,598. 14 Claims. (Cl. 62—115.)

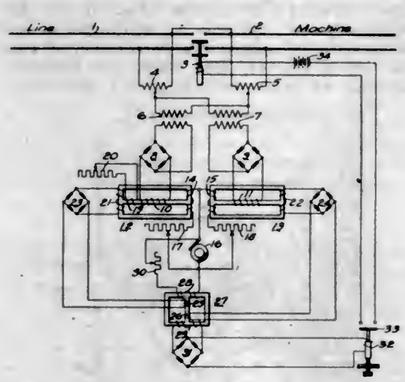


1. In combination with a refrigerator system embodying a low-pressure portion including an evaporator, a high-pressure portion including a condenser, a compressor for circulating refrigerant fluid from the low-pressure portion to the high-pressure portion, a motor for driving the compressor, and means for supplying electrical energy to the motor, of means for equalizing the pressure difference between the high and low pressure portions of the system, and means responsive to the initial surge of current through the motor for rendering said equalizing means effective.

1,786,792. PARALLELING RELAY SYSTEM. PHILLIPS THOMAS, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 1, 1928. Serial No. 251,076. 11 Claims. (Cl. 171—118.)

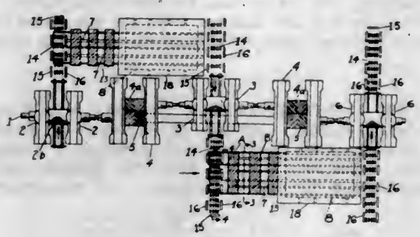
3. The combination, in a paralleling system for alternating-current circuits, with a circuit closer and means

for operating it, of transformers having direct-current and alternating-current windings, means for energizing said direct-current windings in proportion to the vector difference of the voltages of said circuits to vary the voltage across the alternating-current secondary windings when the primary windings are energized, means



on one of said transformers for delaying the variations in the voltage across the alternating-current secondary winding thereof and means responsive to equality of the voltages across the alternating-current secondary windings of said transformers for causing the energization of the circuit-closer-operating means.

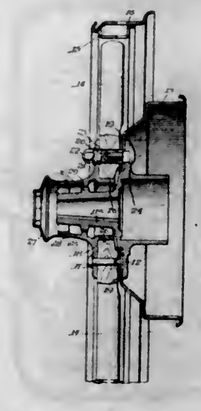
1,786,793. ROLLING MILL. JOHN B. TYTUS, Middletown, Ohio, assignor to The American Rolling Mill Company, Middletown, Ohio, a Corporation of Ohio. Filed May 20, 1925. Serial No. 31,609. 4 Claims. (Cl. 29—17.)



1. In combination in a sheet mill a series of stands of plain faced rolls for successive reduction of hot metal, arranged end to end, and driven alternately in opposite directions, and a transfer device arranged to move the piece sidewise from one stand to the next, and a furnace surrounding said transfer device between two of the stands at least.

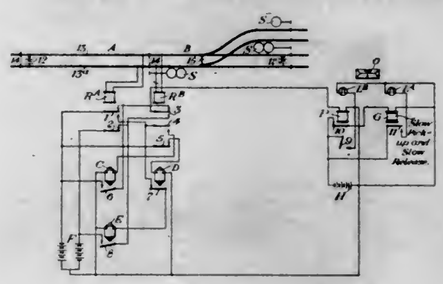
1,786,794. DEMOUNTABLE WHEEL SPIDER. ANDREW S. VAN HALTEREN, East Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a Corporation of Michigan. Filed Jan. 21, 1929. Serial No. 333,762. 8 Claims. (Cl. 301—9.)

1. The combination with the permanent barrel and flange of a vehicle hub, of a skeleton wheel for interchangeably mounting thereon comprising a radiant series of spokes, a shell enveloping the hub barrel and having intermediate its two ends a flange overlying the front face of the spokes, the shell barrel extending to the rear within the central spoke opening and forming an inner abutment for the spokes, the shell having an internal rib approximating contact with the hub barrel, an annular series of attaching members permanently connecting the shell flange and spokes, and an annular series of members detachably connecting the shell flange and hub flange, the permanent and detachable connecting members alternating, the permanent flange provided on its front face with an annular seat for the skeleton wheel.



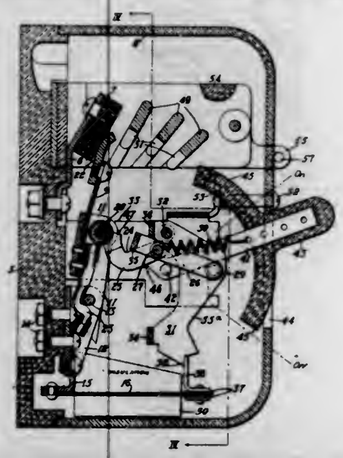
3. The combination with the permanent barrel and flange of a vehicle hub, of a skeleton wheel for interchangeably mounting thereon comprising a radiant series of spokes, a shell enveloping the hub barrel and having intermediate its two ends a flange overlying the front face of the spokes, the shell extending to the rear within the central spoke opening to a distance short of the spoke width and forming an abutment for the spokes, the shell and hub barrel having opposed ribs approximating but normally out of contact, an annular series of attaching members permanently connecting the shell flange and spokes, and an annular series of members detachably connecting the shell flange and hub flange, the permanent and detachable connecting members alternating, the permanent flange provided on its front face with an annular seat for the skeleton wheel.

1,786,795. RAILWAY-TRAIN-INDICATING APPARATUS. JAMES J. VANHORN, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Oct. 9, 1929. Serial No. 398,312. 12 Claims. (Cl. 246—124.)



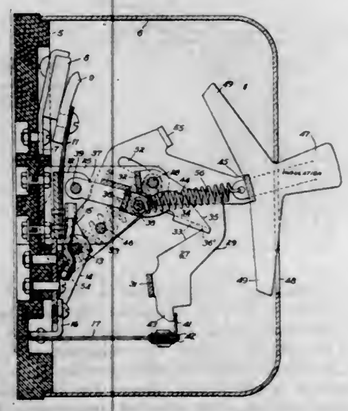
7. In combination, two sections A and B of railway track, a polarized relay P, means for supplying said relay P with current of normal polarity when sections A and B are both unoccupied, means for supplying relay P with current of reverse polarity when section B is occupied and section A is unoccupied, means for de-energizing relay P when section A is occupied and section B is unoccupied, and indicating means for said sections controlled by said relay P.

1,786,796. CIRCUIT BREAKER. FRED G. VON HOORN, Bridgeport, Conn., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 11, 1927. Serial No. 212,288. 12 Claims. (Cl. 200—116.)



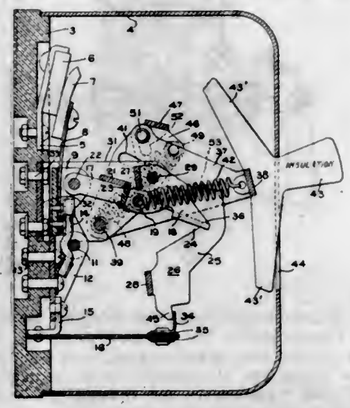
6. A circuit breaker comprising a carrier movable to set and inoperative positions, and normally biased to inoperative position, a contact member, a movable contact member, an operating member therefor comprising a multiple link toggle for maintaining the movable contact in engagement with the said contact member when in the made position and for moving the movable contact to open position when collapsed, the said toggle being supported upon the carrier and movable to made and collapsed positions when the carrier is in the set position, and movable bodily to separate the contacts when the carrier is moved to inoperative position, means for yieldingly moving the toggle to made and collapsed positions, current responsive means for releasably retaining the carrier in set position, manually operable means for actuating the toggle moving means and for returning the carrier to set position.

1,786,797. CIRCUIT BREAKER. FRED G. VON HOORN, Bridgeport, Conn., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 11, 1927, Serial No. 212,289. Renewed July 16, 1930. 9 Claims. (Cl. 200—116.)



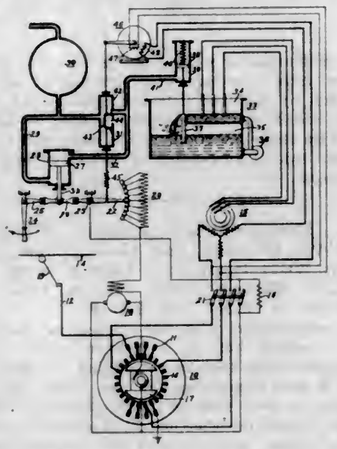
1. The combination with a switch contact supported in closed position by a releasable carrier controlled by a current-responsive element and movable relative to the carrier to open and closed positions, of means for automatically returning the carrier to set position after the latter has been released by the said element.

1,786,798. CIRCUIT BREAKER. FRED G. VON HOORN, Bridgeport, Conn., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 11, 1927, Serial No. 212,290. Renewed May 19, 1930. 4 Claims. (Cl. 200—116.)



1. The combination with a switch contact supported in closed position by a releasable carrier that is retained in set position by a current-responsive element and which causes opening movement of the switch contact when released, and an operating means for moving the switch contact to open and closed positions while the carrier is in set position, of means for automatically returning the carrier to set position, after it has been released by the current-responsive element comprising a movable member for engaging the carrier and an over-center spring for actuating the last said member when the latter has been moved a predetermined distance by the operating means.

1,786,799. CONTROL SYSTEM. KALMAN VON KANDÓ, Budapest, Hungary, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 27, 1927, Serial No. 208,802, and in Hungary July 31, 1926. 4 Claims. (Cl. 172—274.)

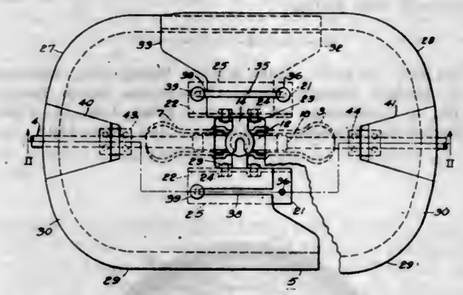


1. In a control system, a source of single-phase alternating-current power, an alternating-current phase converter for changing said single-phase alternating-current power to polyphase alternating-current power, said converter having a direct-current field winding, a wound-rotor polyphase alternating-current motor disposed for energization by said converter with polyphase-current power, a variable rheostat connected to the windings of the rotor of said motor, an exciter-generator for supplying the field windings of said converter with direct current, voltage-regulating means for said exciter whereby the excitation of the converter may be varied to control the power-factor thereof, pressure-responsive means for actuating said variable rheostat and voltage-regulating means simultaneously whereby the resistance of the rotor and the voltage of said exciter may be adjusted to effect operation of the converter at a predetermined power factor, and means operable in response to the value of current traversing said polyphase motor for actuating the pressure-responsive means.

1,786,800. METHOD OF PRODUCING INDIGO BY ARYLGLYCINE FUSION. JUSTIN F. WAIT, New York, N. Y., assignor to National Aniline & Chemical Co., Inc., a Corporation of New York. Filed Dec. 18, 1924. Serial No. 756,797. 2 Claims. (Cl. 260—51.)

1. In the process of producing indigo, the steps which comprise fusing the potassium salt of phenylglycine with a mixture containing potassium and sodium hydroxides and sodamide, dissolving the fusion mass in sufficient water to form a dilute caustic alkali solution, precipitating indigo, separating caustic alkali liquor from said indigo, concentrating said liquor to a water content of less than 10 per cent., removing material that remains solid above 230° C. from said liquor, and fusing the resulting concentrated caustic alkali with sodamide and the potassium salt of phenylglycine.

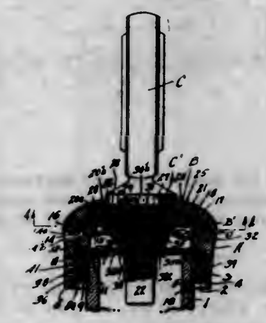
1,786,801. TRANSMISSION-LINE DEVICE. NILS A. WAHLBERG, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 2, 1927. Serial No. 230,459. 9 Claims. (Cl. 173—318.)



1. In a transmission-line device, the combination with an insulator, of an electrostatic-field-control structure including a portion for mounting the structure relative to the insulator and an extensible field-control element surrounding the insulator axis on said portion.

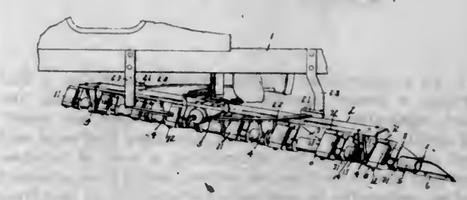
1,786,802. COVER ATTACHING AND LOCKING MEANS. EUGENE C. WAMELINK, Cleveland, Ohio, assignor, by mesne assignments, to The Eaton Axle & Spring Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 13, 1927. Serial No. 191,221. 14 Claims. (Cl. 220—24.)

8. The combination with an externally threaded tubular member, of a base member having an annular recess in the inner surface thereof, a sleeve within said recess and threaded upon said tubular member, said base member being normally rotatable about said sleeve, means whereby a driving engagement may be obtained between said base member and said sleeve whereby said base member may be applied to and removed from said tubular member, and means for effecting a tight joint between the base member, the sleeve therein, and the upper end of said tubular member said means comprising a ring angular in section and having a horizontal flange adapted to overlie the tops of said tubular member and said sleeve and having a vertical flange surrounding the upper outer portion of said sleeve.



11. A closure structure, comprising a base provided with an opening to be closed, a cap mounted for swinging movement at one side thereof into open and closed positions, said closure structure including relatively rotatable parts for producing a sealing effect, and means engageable with one of said parts for preventing relative rotation between said parts when the cap is in open position.

1,786,803. ROAD SCRAPER. ERNEST A. WEEKS, Kalamazoo, Mich., assignor to Root Spring Scraper Company, Kalamazoo, Mich. Filed Nov. 7, 1929. Serial No. 405,386. 6 Claims. (Cl. 37—155.)

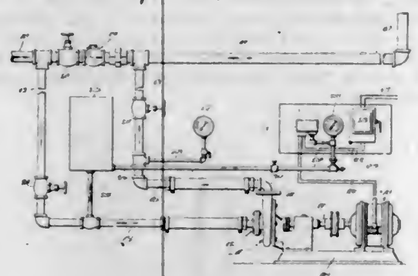


6. In a scraper structure, the combination of a scraper, a rockshaft having pivoted supporting arms therefor, actuating arms for the said scraper arms, and springs of block rubber interposed between the said actuating arms and the scraper arms.

1,786,804. CONSTANT WATER-SUPPLY SYSTEM. MAURICE I. WEIL, Chicago, Ill., assignor to Chicago Pump Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 26, 1928. Serial No. 264,817. 3 Claims. (Cl. 103—25.)

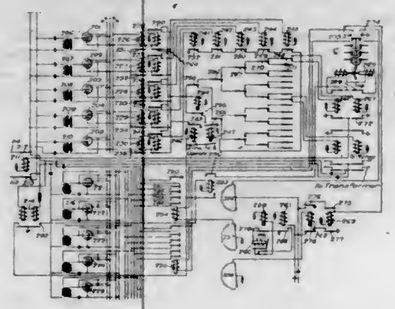
1. A water supply system comprising, in combination, a water supply pipe, two branch pipes leading therefrom, a motor operated pump having its suction end and its

discharge end connected to said branch pipes, there being a check valve in said water supply pipe between its con-



nections with the suction end and discharge end of the pump, and a motor controlling pressure operated switch, in communication with the suction end of the pump.

1,786,805. SUPERVISORY CONTROL SYSTEM. ROY J. WENSLEY, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 14, 1926. Serial No. 129,167. 5 Claims. (Cl. 177—353.)

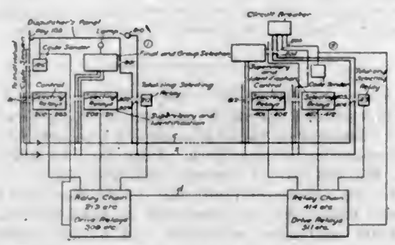


1. In a supervisory control system comprising a first station, a second station, a line connecting said stations, apparatus units at said second station, an operating circuit for each of said units, signalling devices at said first station, means for transmitting a code of impulses over said line to said second station, means at said second station responsive to said code for selecting an operating circuit of an apparatus unit individual to said code, means operated in response to said selection for switching said line to control said operating circuit, means for transmitting over said line an operating impulse from said first to said second station, means responsive to said impulse for completing the selected circuit to operate the apparatus unit individual to said selected circuit and means for transmitting a supervisory code over said switched line to operate a signalling device individual to said operated unit.

1,786,806. PROCESS OF REFINING IRON AND STEEL. SIGURD WESTBERG, Germantown, Pa. Filed Oct. 21, 1924. Serial No. 745,011. 18 Claims. (Cl. 75—27.)

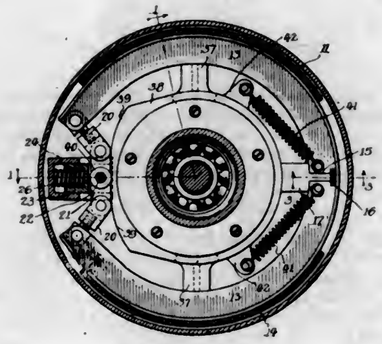
1. A process of refining steel which comprises introducing it into a hearth, adding an excess of gas containing hydrogen, removing impurities of said metals as compounds of hydrogen commingled with an excess of said hydrogenous gas, and regenerating hydrogen by causing said compounds of hydrogen to react with a silicide of an alkaline earth metal.

1,786,807. SUPERVISORY CONTROL SYSTEM. THOMAS U. WHITE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 2, 1926. Serial No. 91,713. 14 Claims. (Cl. 177—353.)



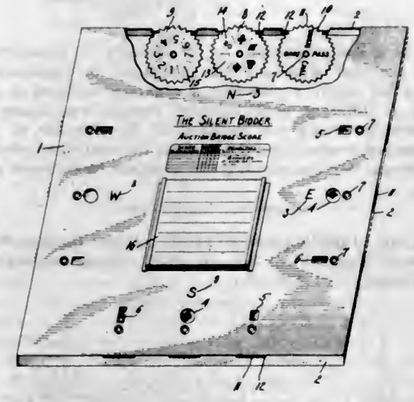
11. In a supervisory control system, a first station, a second station, apparatus units at said second station, selecting mechanism at said second station for selecting one of said aparatus units at one time for operation, means at said first station for controlling the selecting operation of the selecting mechanism to select a particular unit, said first station means including means for simultaneously conditioning an operating circuit individual to said selected unit, means at said first station operated by the selection of said apparatus unit for identifying the unit selected, and means controlled by said last-mentioned means for completing said prepared individual operating circuit, whereby said unit is controlled from said first station.

1,786,808. BRAKE. JOHN WHYTE, Beloit, Wis., assignor to Warner Electric Brake Corporation, South Beloit, Ill., a Corporation of Illinois. Filed July 13, 1928. Serial No. 292,335. 10 Claims. (Cl. 188—140.)



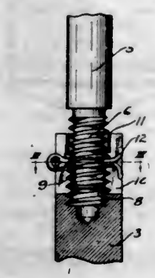
1. An electric brake of the momentum type comprising, in combination, a drum rotatable with a part to be braked, braking means within said drum, a toggle associated with said braking means near the periphery of said drum, a pair of annular friction elements arranged for axial gripping engagement upon the energization of a winding magnet carried by one of them, one element being rotatable with said drum, the other being mounted for oscillatory movement about the drum axis, and means rigid with said oscillatory element and operable in either direction of movement thereof away from the normal brake-released position to flex said toggle in a direction to expand said braking means and thereby set the brake.

1,786,809. SILENT BRIDGE BIDDING DEVICE. DAVID F. WOLYN, Woodmere, N. Y. Filed Apr. 12, 1930. Serial No. 443,727. 3 Claims. (Cl. 273—148.)



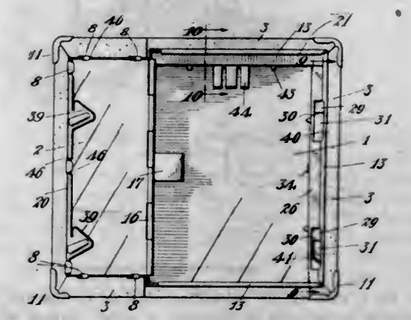
1. A bridge bidding device comprising a plate of quadrangular configuration having a group of apertures adjacent each edge thereof corresponding to the location of four players around a card table, and a disk rotatably mounted on the underface of said plate adjacent each aperture, one disk of each group bearing trump indicating means adapted to be displayed through the respective apertures, another disk in each group bearing indications of the number of tricks to be bid, said indications being adapted to be displayed through the respective apertures, and a third disk of each group carrying indications of other bids to be made, said indications being also adapted to be displayed through the respective apertures.

1,786,810. FLEXIBLE COUPLING FOR PUMPS. HOWARD D. YODER, Detroit, Mich., assignor to Penberthy Injector Company, Detroit, Mich., a Corporation of Delaware. Filed Dec. 29, 1927. Serial No. 243,264. 3 Claims. (Cl. 64—91.)



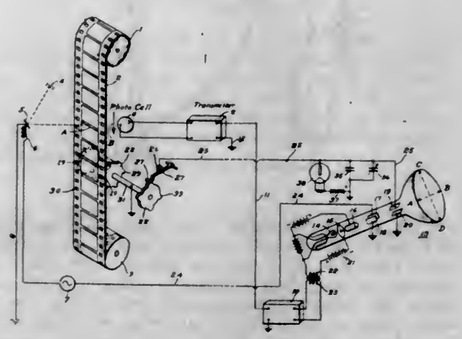
1. In a flexible coupling, a rotatable driven element having a bifurcated end, a driving element for rotating said driven element and threadedly engaging the same, and means passing through one of said elements and positioned in the bifurcated end of said driven element to maintain said engagement.

1,786,811. SAVINGS BANK. DAVID H. ZELL, Brooklyn, N. Y. Filed May 15, 1928. Serial No. 277,978. 5 Claims. (Cl. 232—6.)



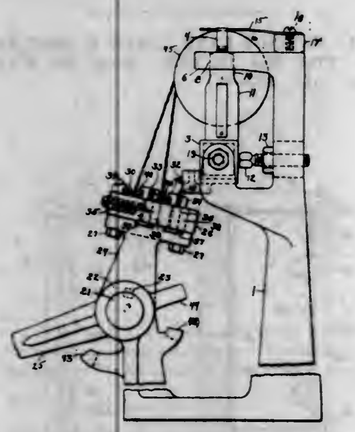
1. A coin bank comprising a casing, a closure hinged to one of the marginal walls of the casing, a housing within the casing and engaged with the opposite marginal wall thereof, lock mechanism for the closure within said housing, said housing having a flange extending upwardly against the inner side of the marginal wall of the casing, and an ornamental metal strip extending over the outer face of said casing wall and having its upper edge bent inwardly and clinched upon said housing flange.

1,786,812. FACSIMILE-TRANSMISSION SYSTEM. VLADIMIR K. ZWORYKIN, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 26, 1929. Serial No. 349,956. 7 Claims. (Cl. 178—6.)



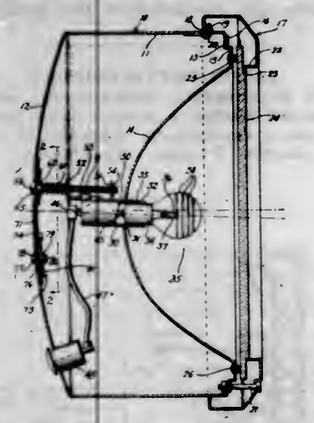
1. In a television system, means for causing a local scanning operation in synchronism with a distant scanning operation and means for modifying said local scanning operation in accordance with a movement of an object subjected to said distant scanning operation.

1,786,813. TUFT-FRAME-THREADING DEVICE. CLINTON ALVORD, Worcester, Mass., assignor to Worcester Loom Works, Worcester, Mass. Filed Mar. 12, 1928. Serial No. 260,963. 16 Claims. (Cl. 28—56.)



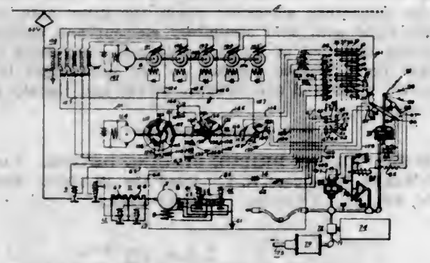
1. In a tuft frame threading device, means for longitudinally registering a plurality of comb clamps whereby the spacing of contiguous comb clamps will register each with the other in predetermined continuity, said clamps being laterally offset relative to each other.

1,786,814. LAMP FOCUSING MECHANISM. SAMUEL F. ARBUCKLE, Highland Park, Mich., assignor to Monogram Lens Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 30, 1925. Serial No. 72,106. 7 Claims. (Cl. 240—44.2.)



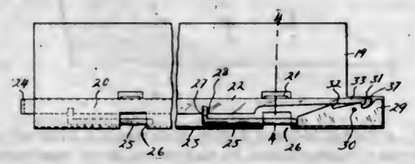
1. In a lamp adjusting mechanism, the combination of a casing; a reflector positioned within the casing; a socket positioned in an aperture formed in the axis of the reflector; a lamp bulb within the socket and reflector; means for axially adjusting said bulb within the reflector; means for vertically adjusting said bulb within the reflector, said last mentioned means being operable from without the casing and comprising a resilient plate connected to and movable with said axial adjusting means and adapted to have a normal curvature different from that of the casing, said plate being insertable intermediate a struck-out adjacent portion of the casing and a non-struck-out portion of the casing whereby the resilient plate is maintained in flexed position producing frictional contact with the casing.

1,786,815. TRAIN-CONTROL SYSTEM. LOUIS M. ASPINWALL, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 14, 1928. Serial No. 254,236. 27 Claims. (Cl. 172—179.)



1. In a control system for a plurality of locomotives, each provided with control apparatus, in combination, means for supply a plurality of separate impulses of currents of different predetermined frequencies, means responsive to preselected impulses of the currents of predetermined frequencies for actuating the control apparatus, and means for preselecting the impulses of currents supplied.

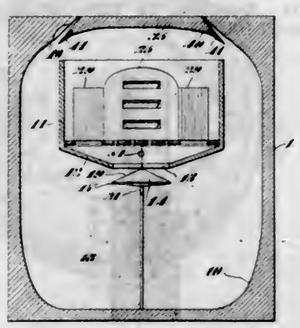
1,786,816. LOOSE-LEAF BINDER. JAMES BARKER, Kalamazoo, Mich. Filed Feb. 16, 1928. Serial No. 254,826. 9 Claims. (Cl. 129—8.)



1. In a looseleaf binder, a guide, a locking bar slidable therein, a latch carried by said locking bar, a keeper having a plurality of latch recesses engageable by said latch and means for disengaging said latch from one of said latch recesses.

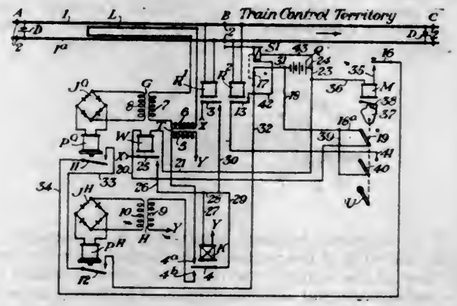
7. In a loose leaf binder, a locking bar construction including a guide, a slidable bar mounted in said guide, and a locking pin detachably engageable with said sliding bar, said locking pin being held in engagement with said bar by said guide.

1,786,817. REFRIGERATOR. GERALD S. BATAILLE, Somerville, Mass. Filed Jan. 26, 1927. Serial No. 163,052. 10 Claims. (Cl. 62—46.)



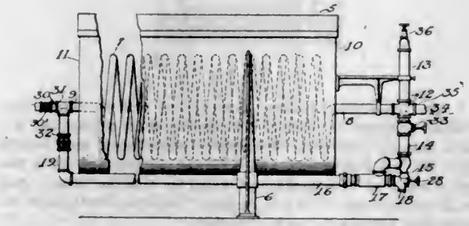
1. A refrigerator comprising a casing forming a chamber having rounded corners adjacent the top thereof to minimize the formation of eddy currents in the air circulating therein, refrigerating means in said chamber adjacent said rounded corners, and means arranged to promote uniform air circulation adjacent said refrigerating means.

1,786,818. TRACKWAY APPARATUS FOR AUTOMATIC TRAIN-CONTROL SYSTEMS. GEORGE W. BAUGHMAN, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Nov. 28, 1928. Serial No. 322,455. 14 Claims. (Cl. 246—143.)



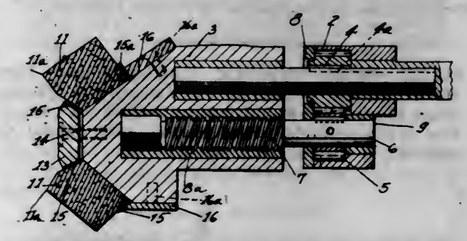
14. Trackway apparatus for an automatic train control system comprising a trackway loop located at the entrance to train control territory and adapted when supplied with periodically interrupted alternating current to cut the train carried portion of the system into service, an auxiliary circuit, a code transmitter having a front contact which is periodically closed while the transmitter is in operation and a back contact which is closed each time the front contact is open, means including said front contact for supplying alternating current to said loop, means including said back contact for supplying alternating current to said auxiliary circuit, two slow releasing relays one receiving energy from said loop and the other from said auxiliary circuit and each arranged to remain closed while said code transmitter is in operation, a signal governing the entrance of trains into said train control territory and controlled by said relays and by traffic conditions.

1,786,819. PASTEURIZING APPARATUS. ARTHUR H. BOILEAU, Cedar Rapids, Iowa, assignor, by mesne assignments, to Cherry-Burrell Corporation, Wilmington, Del., a Corporation of Delaware. Filed June 4, 1928. Serial No. 282,751. 2 Claims. (Cl. 257—198.)



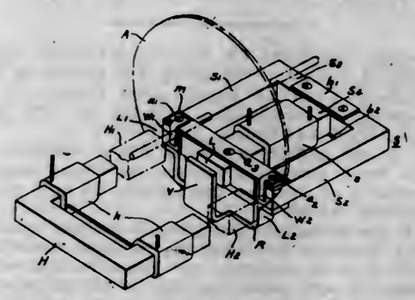
1. A pasteurizer comprising a tank, a coil in said tank, a brine line connected to one end of said coil, an outlet at the other end of said coil, and a water line connected to said brine line and said outlet around said coil, means for selectively putting either of said lines into operation, a steam injector connected to said water line for heating the water and causing circulation thereof, means for closing said brine line connection to the coil, and means for regulating the amount of steam passing through said injector.

1,786,820. ROLL-POLISHING DEVICE. JAMES R. BYRUM, ROY V. RUSSELL, and ASA MEEKS, Middletown, Ohio, assignors to The American Rolling Mill Company, Middletown, Ohio, a Corporation of Ohio. Filed Mar. 24, 1928. Serial No. 264,425. 1 Claim. (Cl. 51—251.)



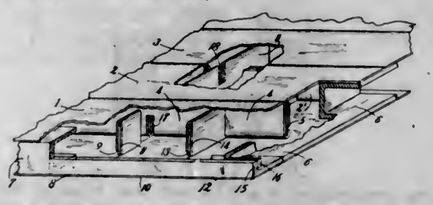
In a roll polishing device an operating handle, and a divided body, one of said body divisions comprising a grinding or polishing head, the other of said divisions comprising a support-engaging member, and means operatively connected with said handle for separating or approaching said divisions, said means comprising a screw member whereby the separation may be made gradually and positively against pressure, said screw member separated from said operating handle, but connected therewith by gears, both journaled in said second division, and said screw member operating in a threaded portion of said first division.

1,786,821. INDUCTION METER. ALBERT CALLSEN, Nuremberg, Germany, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 30, 1928, Serial No. 303,013, and in Germany Aug. 4, 1927. 3 Claims. (Cl. 171—264.)



1. The combination with an induction meter including relatively movable magnetic-flux co-acting members disposed in slightly-spaced substantially parallel surface-to-surface relation to provide a narrow air gap therebetween, of a temperature-compensating element embodying a magnetic portion in said gap, and supporting means therefor exterior to the gap.

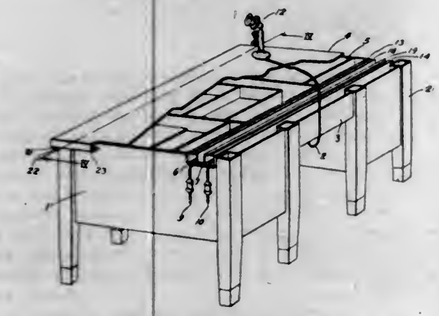
1,786,822. METALLIC STRUCTURE. MAURICE L. CARR, New York, N. Y. Filed Apr. 30, 1928. Serial No. 273,904. 6 Claims. (Cl. 189—34.)



1. In a double metal structure, sides or faces composed of a plurality of sheet metal sections united and held to-

gether by standing seams projecting inwardly at right angles to the face, the seams of one face being disposed traversely to and half lapped into the seams of the other face to cross brace the door and to form a plurality of completely closed cells, channel members fitted at the edges of the structure to close the space between said faces, and means for holding said faces together.

1,786,823. DESK. MALCOLM CARRINGTON and JOHN HENRY KLINCK, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 17, 1927. Serial No. 176,034. 6 Claims. (Cl. 45—6.)



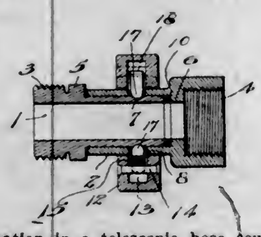
5. A desk for office use comprising a body portion, a channel member for receiving auxiliary apparatus in the body portion and a top portion disposed to cover the body portion and the channel member therein, said channel member comprising a channel shaped conduit open at its ends and provided with apertures in its bottom portion.

1,786,824. PROCESS OF DRYING VARNISH FILMS. PAUL B. COCHRAN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 16, 1928. Serial No. 247,265. 14 Claims. (Cl. 91—70.)

1. In the method of treating fibrous insulation, the steps which comprise preheating the fibrous insulation in ozonized air and then impregnating the same with an insulating varnish.

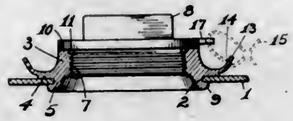
12. The method of treating fibrous-insulated conductors which comprises preheating the insulated conductor in ozonized air to strengthen the fibrous material and to saturate it with ozone, applying an insulating varnish containing asphalt, a vegetable drying oil and a volatile thinner, and then continuing the heating at an elevated temperature, the ozonized air and ozonated fibers acting to expedite the oxidation of the oil and the drying of the insulating varnish.

1,786,825. PIPE COUPLING. FLOYD E. COMER, Bristol, Ind. Filed Feb. 10, 1927. Serial No. 167,232. 1 Claim. (Cl. 285—189.)



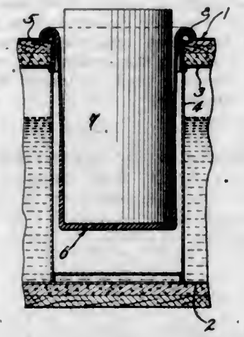
The combination in a telescopic hose coupling with a nipple having an exterior annular groove and a socket member having a pair of diametrically opposed holes therein, said socket member also having a pair of diametrically opposed exterior recesses, of a separate locking collar U-shaped in cross section, a pair of diametrically opposed pins supported transversely of the collar, a pair of pawls within said collar having their outer edges in frictional contact with the pins and retaining lugs at the ends of said pawls to limit their movement, lugs on said pawls having pivotal engagement in the recesses of the socket member, and a locking lug on each pawl for co-action with a hole and the annular groove.

1,786,826. BUSHING. EARL COOPER, Decatur, Ill., assignor to Chambers, Bering, Quinlan Company, Decatur, Ill., a Corporation of Illinois. Filed Nov. 27, 1928. Serial No. 322,172. 12 Claims. (Cl. 220—39.)



1. A container bushing comprising in combination a body, an integral flange thereon in contact with the outer surface of the container wall, one or more normally upturned ears integral with the flange and projecting from the plane of the flange, being an extension thereof and made of material possessing flexible characteristics; said ears each provided with a hole therein transverse to the plane of the ear.

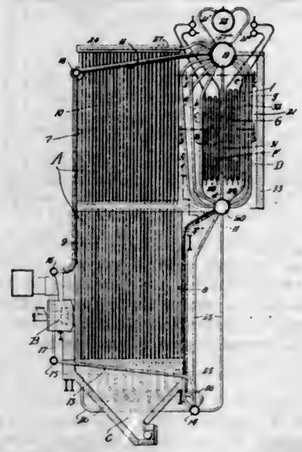
1,786,827. METHOD AND APPARATUS FOR POSITIONING AND SEALING ICE-CREAM CANS IN ICE-CREAM CABINETS. LLOYD G. COPEMAN, Flint, Mich., assignor to Copeman Laboritories Company, Flint, Mich., a Corporation of Michigan. Filed Dec. 10, 1928. Serial No. 324,830. 6 Claims. (Cl. 220—9.)



1. An ice cream cabinet comprising one or more containers adapted to receive ice cream cans or similar articles having a flexible receptable normally of less length than the ice cream can and adapted to contact with the upper edge of the container whereby the ice cream can when positioned in its lowermost position will tend to place said receptacle under tension.

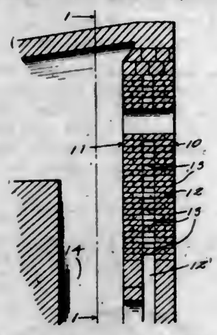
1,786,828. HIGH-PRESSURE-BOILER INSTALLATION. JOSEPH B. CRANE, New York, N. Y., and LEONARD J. MARSHALL, Westwood, N. J., assignors to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed Sept. 17, 1928. Serial No. 306,313. 4 Claims. (Cl. 122—235.)

1. In a high pressure boiler installation, a combustion chamber largely defined by radiant heat tubes the amount of evaporating surface of which is such that all of the steaming capacity of the installation is developed thereby; an outlet for said chamber; a relatively small boiler unit in said outlet, said unit comprising an upper and a lower drum each of which is small relative to the pressure carried; a bank comprising a relatively small number of riser tubes connecting said drums, and a second bank comprising a relatively small number of downcomer tubes



connecting said drums, said banks being spaced apart; a superheater and a reheater in said space; the amount of evaporating surface presented by said riser tubes being approximately just sufficient to lower the temperature of the gaseous products and combustion to protect the superheater and reheater elements against excessive temperature; and means for introducing the fuel to be burned into the lower part of the combustion chamber.

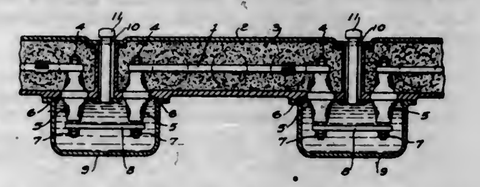
1,786,829. FURNACE CONSTRUCTION. HARRY DAUM, Pittsburgh, Pa. Filed July 10, 1928. Serial No. 291,560. 6 Claims. (Cl. 263—15.)



1. The step in the making of furnaces, which comprises installing a wall containing vitrifiable material, and placing a temporary wall in position to deflect a portion only of the gases from contact with the first-named wall, the temporary wall being of such character that it will not be destroyed by the said gases until after a glaze has formed on the first-named wall.

1,786,830. SECTIONAL ELECTRICAL BUS CAR. DAVID REGINALD DAVIES, Didsbury, England, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 7, 1927, Serial No. 173,296, and in Great Britain Mar. 23, 1926. 3 Claims. (Cl. 173—268.)

1. A liquid-tight receptacle having a pair of insulated conductors extending through a wall thereof and having link attaching means thereon, a bus bar within the receptacle connected to and supported on said conductors, a connecting link for connecting one of said conductors to an

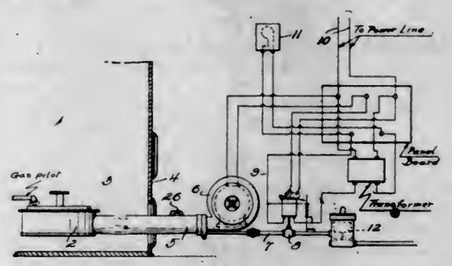


adjacent conductor of a similar receptacle and a liquid-tight receptacle enclosing the link and the last said conductors.

1,786,831. MODIFIED GUM AND ITS MANUFACTURE. CHARLES E. DELLENBARGER, Chicago, Ill., assignor to Paul Carpenter, Glenview, Ill. Filed Apr. 24, 1922. Serial No. 556,333. 7 Claims. (Cl. 99—11.)

1. The process of rendering rubber tasteless, which includes the step of heating a composition of rubber and wax gradually to a temperature between limits of approximately 132° to 145° C.

1,786,832. OIL-BURNING APPARATUS. HAROLD B. DONLEY, AUGUSTUS J. FRAME, and JACKSON G. GILMORE, Columbus, Ohio, assignors to Franklin Oil Heating, Incorporated, Columbus, Ohio, a Corporation of Ohio. Filed Sept. 4, 1928. Serial No. 303,672. 2 Claims. (Cl. 158—28.)



2. Apparatus of the class described comprising a pot, means to supply oil thereto comprising a duct, a valve therefor, air supply means communicating with said pot and including a fan, a motor actuating said fan, means comprising a branch duct connecting said air supply means and said oil duct at a point between the discharge end of the latter and said valve adjacent said discharge end and nearer thereto than to said valve, and means to continue said motor in operation for a desired period of time after the closure of said valve, whereby oil in said duct between the point of connection of said branch duct therewith and said pot will be discharged into said pot, said branch duct having a portion thereof lower than said fuel duct adjacent its communication therewith whereby oil may drain from said fuel line into said branch duct upon cessation of operation of said fan.

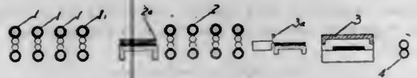
1,786,833. MUSICAL WIND INSTRUMENT. HARRY DYTCH, Daytona Beach, Fla. Filed June 4, 1928. Serial No. 282,845. 13 Claims. (Cl. 84—384.)



1. In a keyed wind musical instrument, a key, a pad for said key composed of yieldable material having a face for

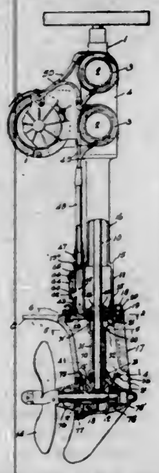
attachment to said key and an opposite face for engaging the edge of a tone hole structure, said opposite face being formed to present a substantially toroidal surface to the edge of the tone hole structure and having a centrally hollow portion, and adhesive means for attaching said pad by the first-mentioned face to said key.

1,786,834. ROLLING METAL. DANIEL EPPELSHEIMER, Middletown, Ohio, assignor to The American Rolling Mill Company, Middletown, Ohio, a Corporation of Ohio. Filed Dec. 10, 1927. Serial No. 239,213. 7 Claims. (Cl. 29—18.)



1. A process for rolling metal, which consists in continuously rolling single thickness hot metal, doubling the product or sections thereof, and cold rolling the doubles with the doubled edges first.

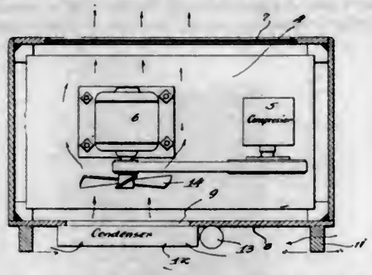
1,786,835. WATER-COOLING SYSTEM FOR OUTBOARD MOTORS. OLE EVINRUDE, Milwaukee, Wis., assignor, by mesne assignments, to Outboard Motors Corporation, a Corporation of Michigan. Filed Oct. 20, 1928. Serial No. 313,737. 15 Claims. (Cl. 115—17.)



1. In combination with an outboard motor having jacketed cylinders, a drive shaft actuated from the motor a propeller shaft geared to the drive shaft and having a propeller fixed thereto, a housing for the drive and propeller shafts and the gearing, said housing including sections having coacting means defining a pump chamber, an impeller in said chamber actuated from the drive shaft, the lower section of the housing having an inlet to the pump chamber opening forwardly at a point adjacent the propeller shaft whereby to be well submerged, the other section having an outlet leading therefrom, and means connecting the pump outlet with the jackets of the cylinder.

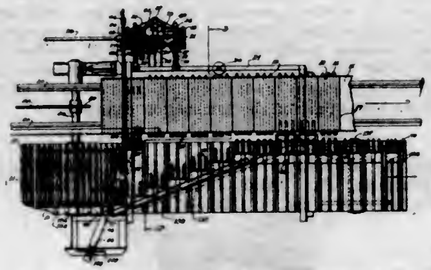
1,786,836. REFRIGERATING APPARATUS. PATTERSON FARMER, Detroit, Mich. Filed Nov. 18, 1927. Serial No. 234,071. 2 Claims. (Cl. 62—116.)

1. A refrigerating apparatus comprising in combination, a cabinet having a storage compartment with cooling means therein and a compartment positioned adjacent the first named compartment, spacing means for spacing the back of the cabinet from the room wall, a motor and compressor positioned in said second named compartment, a small aperture in the rear wall of said second named compartment and positioned at one end thereof in alignment with said motor and a relatively large aperture in the front wall of said second compartment, condensing means positioned between the spacing means and over said aperture in the rear wall and spaced from the bottom of said second named compartment, and means adjacent



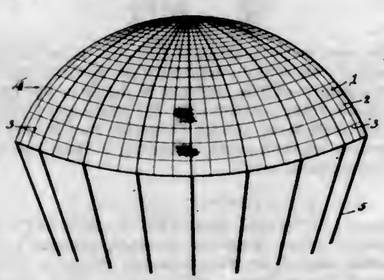
the small aperture in said compartment for inducing a current of air through said aperture and through said condenser, whereby during the operation of said air inducing means the air passing firstly through the condenser and then over the motor and compressor will come from the outside of second named compartment.

1,786,837. MOLDING MACHINE. MERTON W. FARNHAM, Batavia, N. Y., assignor to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Filed June 8, 1929. Serial No. 369,368. 14 Claims. (Cl. 25—99.)



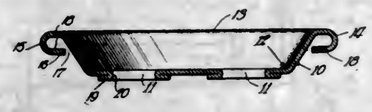
1. In a molding machine, a series of molds adapted to move in a continuous path and being also adapted to receive cementitious material so that said material is molded into building blocks, a core pole associated with a mold, means for loosening said core pole, and reciprocating means adapted to completely remove the core pole from said block.

1,786,838. PARACHUTE. CHARLES FISHER, San Francisco, Calif. Filed July 24, 1928. Serial No. 295,053. 4 Claims. (Cl. 244—21.)



8. A single ply of fabric fashioned into parachute formation, said fabric having reinforcing threads formed therein and disposed substantially radially and concentrically of a central point.

1,786,839. BUTTON. IRA D. FORD, Roseland, Ontario, Canada, assignor to Universal Button Fastening & Button Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 18, 1929. Serial No. 393,328. 2 Claims. (Cl. 24—90.)



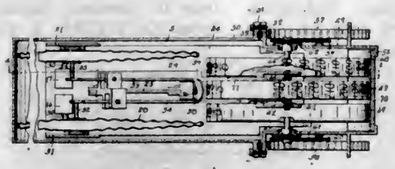
1. As an article of manufacture, a sew-on button formed of relatively thin sheet metal having a centrally depressed thread receiving portion provided with thread holes, and having the metal of its margin turned over to simulate a thick button edge, the turned edge of said metal being substantially parallel with the button face and terminating a distance from said centrally depressed portion and leaving the hollow space of said button edge open for the free escape of liquids employed in connection with the finishing of said button.

1,786,840. BUTTON. IRA D. FORD, Roseland, Ontario, Canada, assignor to Universal Button Fastening & Button Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 18, 1929. Serial No. 393,329. 1 Claim. (Cl. 24—90.)



As an article of manufacture a sew-on button made of thin ductile sheet metal shaped to provide a substantially spherical upper surface which extends downwardly to the edge of the button, the curvature of said spherical surface being sufficient to provide a button of substantial depth so as to simulate a thick solid button, the margins of metal at the edge of the button being curled beneath the button, and an elliptical depression in the top of the button the bottom of which depression lies within the plane of the curled edge of said button thereby permitting the edge of said button to hug the cloth to which it is attached, said depression having thread holes in the bottom thereof.

1,786,841. AIR-SPEED INDICATOR. WALTON GILBERT, Pasadena, Calif. Filed May 28, 1925. Serial No. 33,426. 7 Claims. (Cl. 177—311.5.)

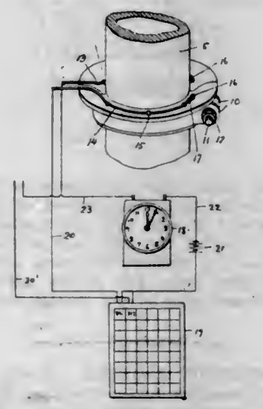


1. In an air speed measuring device for airplanes, the combination of two dynamic pressure heads disposed equal distances from the center line of an airplane and outside of the propeller disturbance area, a static pressure head, an airtight casing containing two similar barograph cells and having a transparent wall portion, tubular means connecting each cell with one dynamic head and the casing with the static head, a speed indicator pointer in said casing, means pivotally mounting said indicator pointer so that it is visible through said transparent portion, lever means connecting said barograph cells to said indicator to produce turning moments on said indicator by the pressure in said cells respectively which are additive in the direction away from zero, and means producing a turning moment on said indicator pointer in the opposite direction toward the zero position.

1,786,842. REFRIGERATING COMPOSITION. OSCAR HANNACH, Wilmersdorf, near Berlin, Germany, assignor to Wilhelm Kash, Wilmersdorf, near Berlin, Germany. Filed June 2, 1926, Serial No. 113,824, and in Germany Nov. 21, 1925. 4 Claims. (Cl. 252—5.)

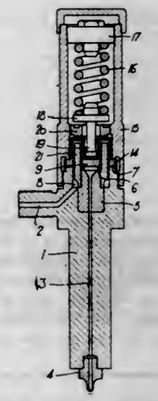
1. A refrigerating mixture consisting of a mixture of ammonium-chloride with an excess of sodium-carbonate, adapted to produce a decrease of temperature upon being dissolved.

1,786,843. LEAK DETECTOR. HANS N. HEDEBY, Youngstown, Ohio. Filed Oct. 7, 1929. Serial No. 397,941. 4 Claims. (Cl. 200—52.)



1. A circuit closer of the type described comprising an annulus for circumscribing a liquid conduit, said annulus being constructed to provide a trough for collecting liquid escaping from the said conduit, and contacts mounted within the trough of the said annulus.

1,786,844. FUEL-INJECTING DEVICE FOR INTERNAL-COMBUSTION ENGINES. KNUT JONAS ELIAS HESSELMAN, Saltsjo-Storangen, Sweden. Filed Nov. 22, 1926, Serial No. 149,970, and in Sweden Dec. 4, 1925. 6 Claims. (Cl. 251—119.)



2. In a device for injecting liquid fuel under pressure into internal combustion engines, the combination of a valve casing, a plane valve seat in said casing surrounding a liquid outlet channel, a liquid inlet channel outside said valve seat, a surrounding surface in the same plane as said valve seat, an annular diaphragm formed integral with an imperforate disk shaped rigid central portion to act as a valve in engagement with said valve seat and

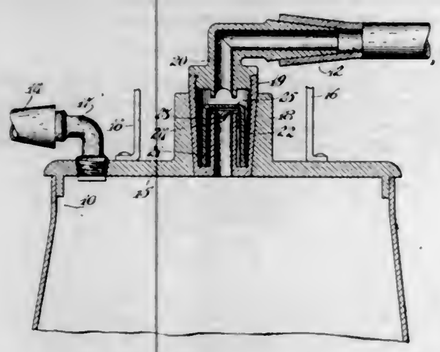
a rigid circumferential portion in the plane of the valve to be clamped against said surrounding surface, and means to produce a pressure acting on said diaphragm to hold said central portion in engagement with said valve seat, said pressure being adapted to be overcome by the pressure of the liquid fuel to open the valve.

1,786,845. TAPE MEASURE. GEORGE R. HIPPLE, Pottstown, Pa. Filed Nov. 13, 1930. Serial No. 495,526. 3 Claims. (Cl. 33—137.)



1. In a tape measure, the combination with a tape having a loop attached to the end thereof, of a hook formed of a single strand of wire bent intermediate its ends to form a pair of arms, the free ends of the arms being disposed laterally in opposite directions and terminating in object-engaging teeth, one of the laterally disposed ends being formed with a ring portion linked with the loop.

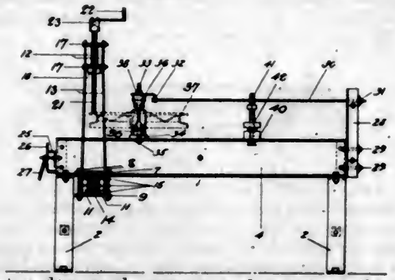
1,786,846. MILKING MACHINE. FLOYD G. HODSDON, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Mar. 2, 1928. Serial No. 258,503. 10 Claims. (Cl. 31—58.)



7. A valve plug having a top end carrying a nipple, a bottom end, said plug being hollow to form an inner trap chamber, an upstanding tube formed on the bottom end and extending to a point adjacent the top end of the plug, a check valve loose on the top end of the tube, and a trap valve surrounding the tube and having one end thereof resting loosely on the bottom end of the plug.

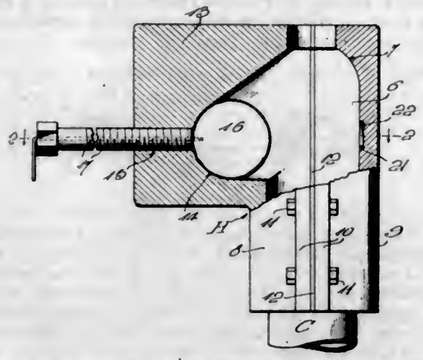
1,786,847. MECHANISM FOR OPERATING UPON METAL PARTS OF AUTOMOBILES AND THE LIKE. GEORGE L. HUNT, Davenport, Iowa, assignor to Geo. L. Hunt Automotive Equipment Co., Davenport, Iowa, a Corporation of Iowa. Filed Mar. 1, 1929. Serial No. 343,732. 9 Claims. (Cl. 153—32.)

1. In a wheel straightening machine, a supporting frame having longitudinal flanges, a second frame transverse to the first frame, mounted on the flanges and slidable thereon, said second frame having a part spaced upwardly from the first frame and extending transversely thereof, a screw extending through said part and operable therein



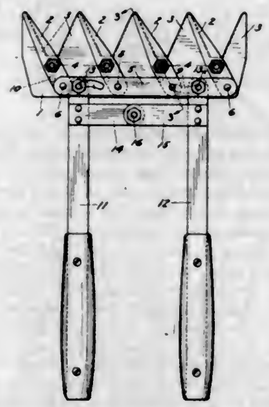
to exert a downward pressure, and means on the first frame to rigidly support a wheel thereon in position to have pressure exerted thereon by the screw.

1,786,848. WELL-CAPPING DEVICE. JOSEPH O. JOHNSON, Coalinga, Calif. Filed Jan. 7, 1929. Serial No. 330,908. 5 Claims. (Cl. 166—15.)



1. A well capping device comprising a vertical passage member having a downwardly facing valve seat at its interior and a lateral internal recess below said seat, a ball valve normally disposed in said recess, and tubular means extending from the exterior to the interior of said passage member for forcing said ball valve out of said recess and for then conducting fluid from said passage member, said valve being co-operable with said seat.

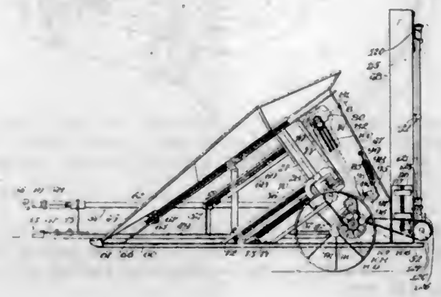
1,786,849. TRIMMER. OTIS O. JOHNSON, Moline, Ill. Filed June 28, 1929. Serial No. 374,513. 2 Claims. (Cl. 30—11.)



1. In a structure for the purpose indicated, a body having forwardly tapered projections along the front edge

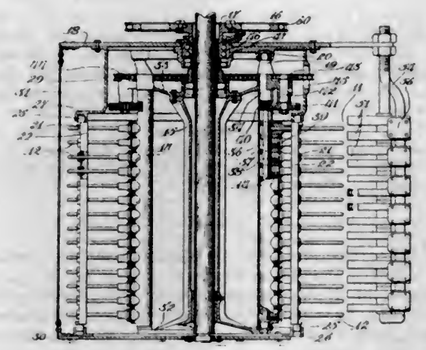
thereof, cutting blades pivoted upon the body and adapted to cooperate with said projections, resilient means tending to press the pivoted blades toward the said body and projections, means for moving the blades about their pivots, and means for tilting the blades transversely to keep their edges in point engagement with the projections at all times in their operative engagement therewith.

1,786,850. ENSILAGE HARVESTER. EDWARD A. JOHNSTON, GEORGE M. MERWIN, and HARRY A. WATCHEK, Chicago, Ill., assignors to International Harvester Company, a Corporation of New Jersey. Filed Dec. 8, 1927. Serial No. 238,477. 12 Claims. (Cl. 56—16.)



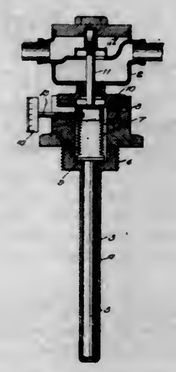
1. A harvester comprising an ensilage forming cutter, stalk guides forming a stalk passageway leading to the cutter, an abutment for guiding the stalks toward the cutter, and distributor means operated laterally with respect to the abutment for uniformly spreading stalks across the face thereof.

1,786,851. COTTON PICKER. EDWARD A. JOHNSTON, Chicago, BERT R. BENJAMIN, Oak Park, and DAVID B. BAKER and CLARENCE R. HAGEN, Chicago, Ill., assignors to International Harvester Company, a Corporation of New Jersey. Filed Sept. 4, 1928. Serial No. 303,646. 4 Claims. (Cl. 56—47.)



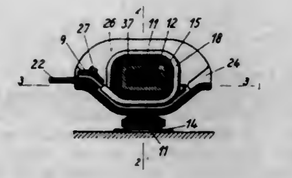
1. A cotton picker comprising, in combination, rotatable picker stems, a body affording a plant passage, upright supports carrying the picker stems in separate groups, a carrier for the supports, means for revolving the carrier, means for angling the supports and the picker stems relative to the carrier during movements of the picker stems into and out of the plant passage, doffer sleeves continuously surrounding the individual picker stems and slidable with respect thereto, vertical bars connecting the sleeves in groups, and means for moving the bars relative to each other to successively slide the sleeves from the bases of the picker stems to their tips and back again to the bases.

1,786,852. THERMOSTAT. JOHN J. KENNEY, Pittsburgh, Pa. Filed Dec. 12, 1928. Serial No. 325,421. 7 Claims. (Cl. 236—102.)



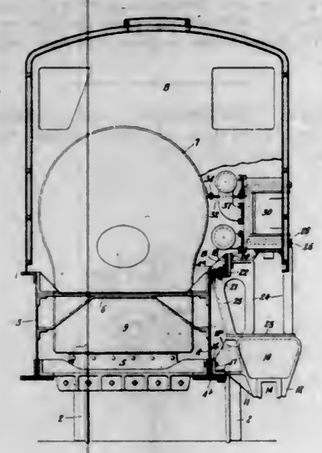
1. A thermostat, comprising a supporting body, a member movably carried thereby, a solid heat responsive device for actuating said member, and means of substantially constant over-all dimensions having flow characteristics for transmitting operating pressure from said solid device to said member.

1,786,853. CURRENT TRANSFORMER. HANS KLEMM, Dresden, Germany, assignor to the Firm Koch & Sterzel Aktiengesellschaft, Dresden, Germany. Filed Aug. 14, 1929, Serial No. 385,779, and in Germany Aug. 15, 1928. 8 Claims. (Cl. 175—358.)



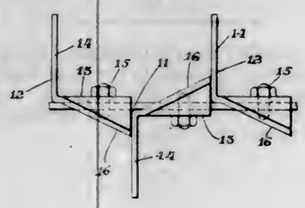
1. A current transformer having a casing and a tunnel in said casing for the reception of the secondary coil and the iron core of said transformer, and for winding the primary coil on the outside of said tunnel, and a channel being formed by the lower wall of said tunnel and said casing and adapted to receive the lower portion of said primary coil.

1,786,854. LOCOMOTIVE FRAME AND ENGINE SUPPORTING STRUCTURE. ROBERT B. KRUEGER, Lima, Ohio. Filed June 22, 1928. Serial No. 287,459. 19 Claims. (Cl. 105—42.)



1. A geared locomotive frame and engine support including a row of truss-like braces secured at the top and bottom of a member of the frame.

1,786,855. TRACTION WHEEL. EARL LONDON, Chapman Ranch, Tex., assignor to International Harvester Company, a Corporation of New Jersey. Filed May 29, 1929. Serial No. 366,815. 5 Claims. (Cl. 301—44.)



2. A wheel tread structure comprising a radially extending flat rim, and lugs having elongated flat plates secured to the opposite faces, alternately, of the rim in offset relation and with the longitudinal sides of the respective plates approximately in the same transverse radial plane, the ends of said plates being alternately bent in opposite directions to set the outer edges thereof obliquely across the plane of the rim plate.

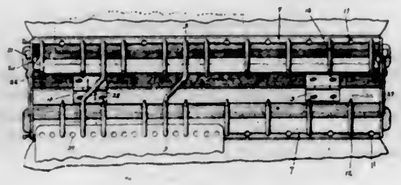
1,786,856. VEHICLE BRAKE. EDWARD J. MADDEN, Detroit, Mich. Filed Oct. 13, 1926. Serial No. 141,258. 5 Claims. (Cl. 188—152.)

5. In a fluid pressure brake, a fixed plate, a brake drum, a brake band and actuating means therefor including a fluid pressure cylinder and piston, means for supporting said band and actuating means within said drum, said supporting means including parts adapted to move



around the center of the drum, and means carried by said plate for limiting the movement of the supporting means and parts.

1,786,857. VISIBLE-INDEX BINDER. JOHN L. MCMILLAN, Syracuse, N. Y., assignor to McMillan Book Company, Syracuse, N. Y., a Corporation of New York. Filed Apr. 16, 1928. Serial No. 270,423. 3 Claims. (Cl. 129—17.)

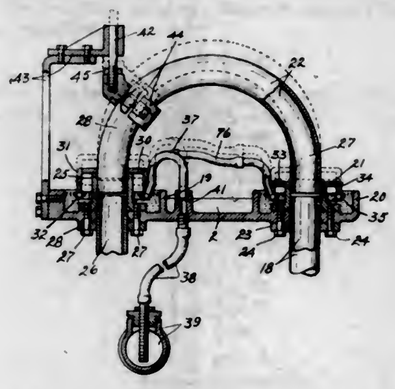


1. In a device of the class described, a pair of opposed back members hingedly connected together, a member carrying a plurality of spaced prongs and having apertures between adjacent prongs affixed to each of the back members and an arcuate rod having relatively laterally offset end portions and having one end removably positioned in an aperture in one prong-supporting member and having its other end similarly positioned in the other prong-supporting member.

1,786,858. TREATMENT OF MILK POWDER. IRVING S. MERRELL and HELGE SCHIBSTED, Syracuse, N. Y., assignors, by mesne assignments, to Merrell-Soule Company, Inc., New York, N. Y., a Corporation of Delaware. Filed July 23, 1925. Serial No. 45,609. 9 Claims. (Cl. 226—20.)

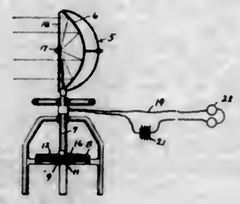
7. In an apparatus of the character described, a tank, means for producing vacuum therein, means for admitting a treating gas thereto, and means in communication with the tank capable of maintaining a substantially perfect vacuum therein while permitting the escape of gas

therefrom when the pressure in the tank reaches a predetermined amount, said latter means including a U-tube,



the leg which is connected to the tank being at least thirty-two inches in length and of slightly less diameter than the opposite leg and a liquid within the U-tube.

1,786,859. SOUND-SOURCE-LOCATING MEANS. LELAND FISKE MERRILL, Oakland, Calif. Filed Sept. 28, 1927. Serial No. 222,557. 3 Claims. (Cl. 181—26.)



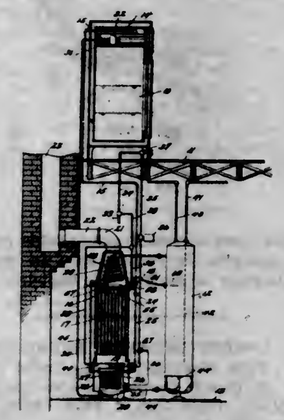
3. In a device for locating a source of sound from a ship, concave sound reflectors disposed at spaced and fixedly related observation points on said ship and adjusted about vertical pivotal axes with the axes of curvature limited to movement in a plane perpendicular to said first axes, means including a microphone for ascertaining the variations in the intensities of sound at the focal points of said reflectors during the adjustment thereof whereby they may be set in such positions that the intensities of sound at their focal points are maximums and their axes of curvature are directed in a plane including their focal points and said source of sound, and means for ascertaining the angular dispositions of said axes of curvature with respect to a base line fixedly related to aline joining said observation points.

1,786,860. METHOD AND MEANS FOR REMOVING CARBON DEPOSITS FROM CYLINDERS. THOMAS MIDGLEY, JR., and CARROLL ALONZO HOCHWALT, Dayton, Ohio, assignors to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed Feb. 2, 1926. Serial No. 85,579. 12 Claims. (Cl. 87—5.)

3. The process of cleaning a carbon deposit from a metal surface of a combustion chamber, which comprises heating the metal to above 150° F., applying to the carbon deposit a mixture of a high boiling organic compound which removes varnish and a lower boiling varnish remover, until the tarry-binder in the deposit is softened, and removing the carbon deposit.

10. A composition of matter for removing carbon comprising aniline, alcohol, benzol, and naphthaline.

1,786,861. COMBINATION REFRIGERATING AND WATER-HEATING UNIT. ERNEST B. MILLER and WILLIAM H. GABELER, Baltimore, Md. Filed Dec. 14, 1927. Serial No. 240,052. 24 Claims. (Cl. 62—118.)



1. Apparatus for refrigerating and for heating water including in combination, a water storage tank, an adsorber, means to supply heat to said adsorber to activate the adsorbent therein and means to transfer unused heat from the said heat supply means directly to water in said storage tank.

15. A method of refrigerating and heating liquid comprising, adsorbing vapor from a liquid refrigerant into an adsorbent, supplying heat to said adsorbent to drive off said vapor and subjecting liquid from an independent source to heat escaping from said activating process.

1,786,862. VARICOSE STOCKING. AUGUSTE MOUTHE, Lyon, France, assignor to Francisque Damon, Lyon, France. Filed Feb. 7, 1928, Serial No. 252,575, and in France Apr. 11, 1927. 4 Claims. (Cl. 66—178.)

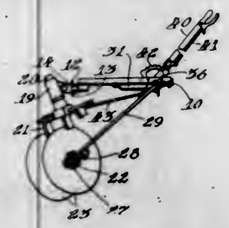


1. A knitted varicose stocking, embodying a two-ply heel portion provided with a heel opening which is formed in the course of the knitting operation and a single edge of which is fastened by chain-stitching which passes through the loops of the knitting and forms a loose knot at each loop.

1,786,863. DISK HARROW. WALTER R. PETERSON, Park Ridge, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Aug. 11, 1928. Serial No. 299,019. 2 Claims. (Cl. 55—81.)

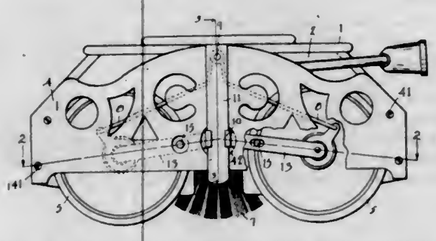
1. A harrow comprising, in combination, a support, a plurality of disk gangs, an axle for each disk gang, a gang frame mounting the axle of each gang and normally arranged in upright position, means connecting each gang frame with the support so that the associated gang may turn upon an upright axis to be angled and may turn upon a transverse axis to be tilted, means connecting each disk frame and the support for angling a gang,

and means connecting each gang axle and the support for tilting the gang, said last named means including



an adjustable limit stop lock and slidable connections for enabling a gang to be turned upon its transverse axis by the application of draft to the support.

1,786,864. CARPET-SWEEPER BRUSH-DRIVE MECHANISM. FRED WALTER PULLEN, Grand Rapids, Mich., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Filed June 4, 1928. Serial No. 282,580. 3 Claims. (Cl. 15—41.)



2. In a carpet sweeper structure the combination of a case having an end plate, a slide, a brush pivot secured to the said slide on which the carpet sweeper brush journals, a carpet sweeper brush with drive pulley journaled on said pivot, a blade spring serving as a way for the said slide secured at one end to the end plate to yieldingly support the slide in position, floor wheels for the said carpet sweeper and means for maintaining yielding contact between the floor wheels and the drive pulley of the brush, and levers having their mid-portions pivoted to said plate and their ends connected to said floor wheels and the brush, as specified.

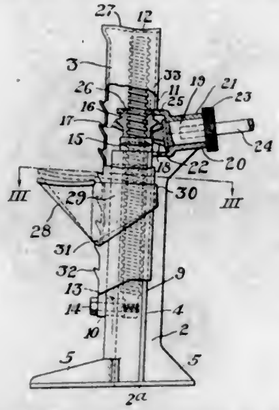
1,786,865. BUMPER FOR MOTOR CARS AND AUTOMOBILES. RICHARD REYNOLDS, Nashville, Tenn. Filed July 11, 1929. Serial No. 377,558. 8 Claims. (Cl. 293—55.)



1. A bumper including a wing swiveled to swing in two different planes to adapt it to be moved out of interlocked engagement with the bumper of another vehicle.

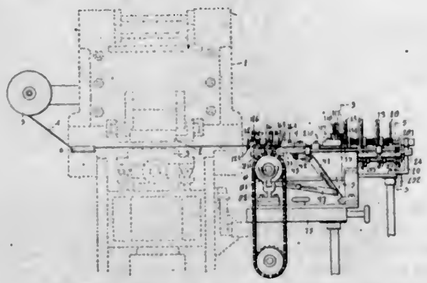
1,786,866. JACK. CLARENCE J. RODMAN, Alliance, Ohio. Filed June 9, 1926. Serial No. 114,682. 3 Claims. (Cl. 254—100.)

2. A jack comprising a base having an upstanding post with an open sided recess therein, a screw lying in the recess and projecting from the upper end thereof, a bearing mounted on top of the post and surrounding the screw,



a nut on the bearing, a lifter guided in the post and operatively connected to the screw, and means for rotating the nut.

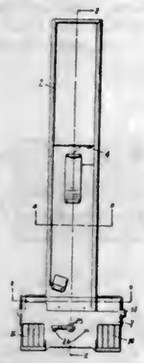
1,786,867. LABEL PRINTING, FEEDING, AND CUTTING MACHINE. ARTHUR ROSENTHAL, Grand Rapids, Mich. Filed Jan. 10, 1929. Serial No. 331,663. 8 Claims. (Cl. 101—292.)



1. In a label printing, feeding, and cutting machine, the combination of a printing press, a plurality of label strip feed reels, a guide for the label strips to the press, a feed and cutting means comprising a frame with a main holding jaw, an auxiliary holding jaw in spaced relation therefrom to embrace and hold said plurality of label strips under tension, a cam trip means for opening and closing the holding jaws comprising a slide with actuating stops, a cam for actuating said slide to open and close the holding jaws independent of the motions of the feed mechanism, a reciprocating feed carriage, a main feed jaw for engaging the ends of label strips disposed on said carriage and adapted to engage the ends of the label strips, an auxiliary feed jaw disposed in spaced relation to said main feed jaws and adapted to reciprocate and act between the said holding jaws, cam actuating means for simultaneously actuating the said jaws and tripping the same to close comprising a slide with stops for actuating and tripping the said jaws, a cam for actuating said slide timed to close said jaws during the feeding operation and open the same on return movement, a plurality of parallel cut off shears one of which is disposed in proximity to the main holding jaws and provided with a wiping rib to wipe the ends of the strips upwardly into projecting position, cam means for actuating said shears timed to act simultaneously and shear the tensioned strips between the main holding and main feed jaws, a tripper finger to discharge severed labels from the main feed jaws, a cam

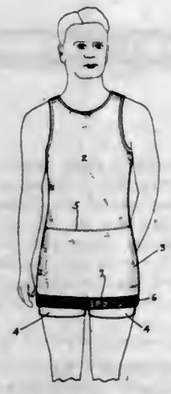
to actuate the same, endless belt delivery means adjacent each shear to receive the cut off labels and discharge the same, and cam means for reciprocating the feed carriage with the feed jaws timed to cooperate with said holding jaws, as specified.

1,786,868. VENDING MACHINE. WALTER S. RUNNELS, Kalamazoo, Mich. Filed Feb. 28, 1929. Serial No. 343,491. 14 Claims. (Cl. 194—58.)



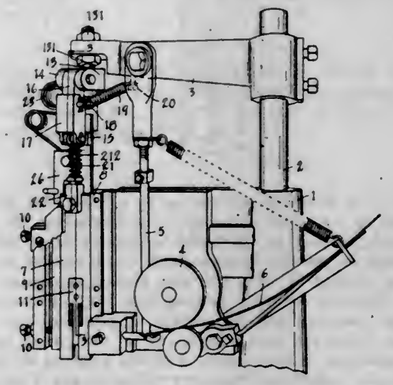
14. In a coin controlled vending machine, the combination with a plurality of magazines, of a slidably mounted ejector adapted to be alternately brought into receiving position relative to said magazines, means for actuating said ejector, a coin controlled locking dog operatively associated with said ejector and provided with a pair of spaced detents, and a pair of coacting stops operatively connected with said ejector, said ejector also having ratchet teeth operatively connected thereto and with which said detents on said locking dog coact to prevent return movement of the parts until completion of the stroke of the ejector in one direction.

1,786,869. BATHING SUIT. GEORGE E. RUTLEDGE, Chicago, Ill., assignor to The Munsingwear Corporation, Minneapolis, Minn., a Corporation of Minnesota. Filed Nov. 6, 1929. Serial No. 405,125. 2 Claims. (Cl. 2—67.)



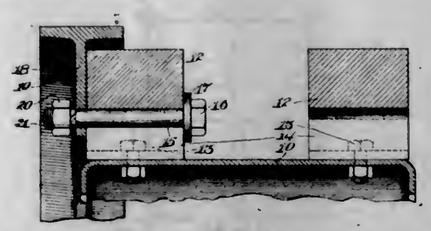
1. A bathing suit consisting of a body and skirt portion made of a single piece of relatively flimsy, slightly stretchable, textile material extending slightly below the upper hip portion, a trunk portion made separate from the one piece combined body and skirt portion, said trunk portion also made of flimsy, slightly stretchable, textile material and having leg portions extending slightly below the skirt portion, the trunk portion being stitched to the inner face of the one piece body and skirt portion, the skirt portion having at its lower edge an elastic element stitched thereto by elastic stitching, said elastic element when unexpanded being of slightly less length than the adjacent lower part of the skirt portion, whereby when the garment is applied to use the elastic element will be slightly expanded by that portion of the body of the wearer below the hips and thus placed under sufficient tension to cause the skirt portion and the elastic element to cling snugly to the lower part of the leg portions to insure that the skirt portion and the legs of the trunk portion when wet be situated in smooth relation with the body of the wearer.

1,786,870. STAPLING MACHINE. ALBERT H. SCHMIDTKE, St. Joseph, Mich., assignor to St. Joseph Iron Works, St. Joseph, Mich. Filed Jan. 18, 1929. Serial No. 333,348. 4 Claims. (Cl. 1—2.)



1. In a stapling machine, the combination of the reciprocating driver head, an adjustable socket piece secured thereto having laterally projecting ears, a staple driver, a staple driving slide plate having a laterally projecting lug and having a guide pin adapted to reciprocate in the said socket, a trip toggle connection between the ears and lug on said socket and slide plate, a spring to hold the toggle in actuating position, a staple former cooperating with the said staple driver, and a projecting trip pin on said staple former timed to trip the said toggle connection and release the pressure after a staple has been driven, as specified.

1,786,871. OVERTIRE FOR LUGGED TRACTION WHEELS. OTTO ROBERT SCHOENROCK, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Feb. 19, 1927. Serial No. 169,451. 2 Claims. (Cl. 301—39.)



1. In combination with a wheel tire carrying V-shaped lugs, each of said lugs being arranged transversely of the rim and provided with a transverse channel, of a T-bar overtire for the lugs, in which the leg flange of the T-bar

lies flatly against the outer face of the lugs, while the head flange of the T-bar overhangs the lugs and extends laterally beyond the said outer face of the lugs, and fastening means passed through the channel of certain of the lugs and through the leg flange of the T-bar.

1,786,872. CAR-COUPLING PIN. WILLIAM J. SIMMONS, Sr., Coaldale, Pa., assignor of one-third to William J. Simmons, jr., and one-third to Mike Pavlik, jr., Coaldale, Pa. Filed Oct. 8, 1929. Serial No. 398,226. 6 Claims. (Cl. 213—188.)

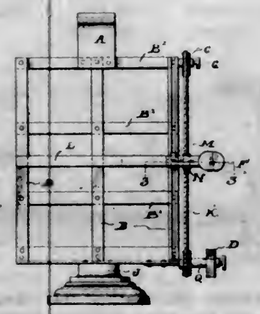


1. A car coupling pin for use in a car buffer, said pin having on its upper end a part for supporting the pin in vertical position in the buffer, a locking latch pivotally mounted on the lower end thereof, and a gravity actuated device carried by said pin and formed separately from said latch for normally holding said latch in position to permit insertion and withdrawal of said pin from a car buffer, when the first named end of the pin is up, said device acting to move said latch into position to lock the pin in the buffer when the lower end of the pin is turned up.

1,786,873. PHARMACEUTICAL PRODUCT AND PROCESS OF MAKING SAME. EMIL STARKENSTEIN, Prague, Czechoslovakia, assignor to the Firm Chemische Fabrik auf. Actien (vorm. E. Schering), Berlin, Germany. Filed Feb. 16, 1927, Serial No. 168,831, and in Germany Feb. 26, 1926. 11 Claims. (Cl. 167—67.)

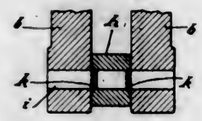
1. As a new composition of matter for use as a pharmaceutical product, a mixture of hyoscyamin and scopolamine.

1,786,874. INDICATING COPYHOLDER. CAMILO TALARN, Rosario de Santa Fe, Argentina. Filed Oct. 4, 1929, Serial No. 397,343, and in Argentina Aug. 17, 1929. 1 Claim. (Cl. 129—33.)



A copy holder including a frame, a sliding block on said frame, an indicating bar pivoted to said block, one end of said bar extending across the frame and the other end extending laterally from said block to form a lever end adapted to be depressed to move the first mentioned end away from the frame to facilitate the introduction of a copy sheet under the bar, freely rotatable supporting pulleys, and a cord connected at one point to said bar for actuating the latter and normally retaining the bar in position upon the frame.

1,786,875. SAFETY DEVICE FOR CAM-CONTROLLED MECHANISMS. KARL TESSKY, Esslingen-on-the-Neckar, Germany. Filed Nov. 26, 1927, Serial No. 235,906, and in Germany Dec. 24, 1926. 1 Claim. (Cl. 74—1.)



The combination of a rotary cam, a lever having one arm provided with a terminal fork, a pin extending transversely of the space between the members of said fork, a roller mounted on said pin within the fork so as to be engaged by its members at either end and projecting from the lever into the path of the cam, so that normally the lever will be rocked at each rotation of the cam, the roller supporting pin having two annular grooves formed therein and so related that both grooves are within the bore of the roller, with tapering surfaces extending from the lowest point of each groove to the adjacent end of the bore in said roller, substantially as and for the purpose described.

1,786,876. FEEDING DEVICE FOR MACHINE TOOLS. KARL TESSKY, Esslingen-on-the-Neckar, Germany. Filed Mar. 21, 1929, Serial No. 348,804, and in Germany Mar. 28, 1928. 2 Claims. (Cl. 82—38.)

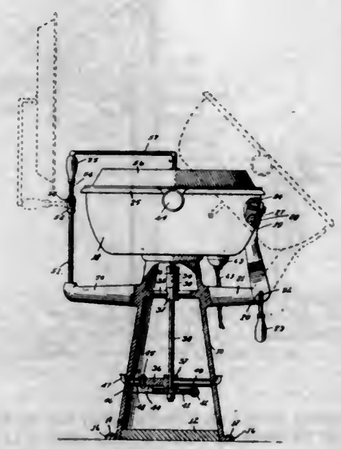


1. Tubular guide for feeding bars to machine tools comprising a guide tube and a lining in this tube having the shape of a coiled spring the diameter of which varies in the axial direction of the coil, some coils being in contact with the inner wall of the tube, others in contact with the bar to be fed, and the rest of the coils intermediate said first and second mentioned coils being neither in contact with the bar nor with the tube.

1,786,877. CORN POPPER. ELMER B. THOMPSON Des Moines, Iowa, assignor to National Sales and Manufacturing Company, Des Moines, Iowa, a Corporation of Iowa. Filed Feb. 20, 1928. Serial No. 255,648. 4 Claims. (Cl. 53—4.)

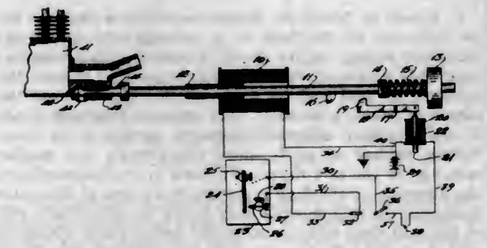
1. A corn popper comprising an upright hollow conical base, a popper kettle supported on the upper end of said base, said kettle including a skillet and a heating unit, means for pivotally connecting said kettle to swing

from an upright position to an inverted position, a stirring device within said skillet, electrical means support-



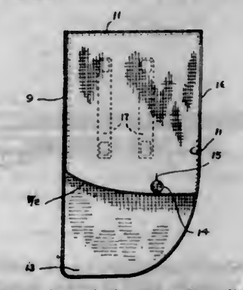
ed in said base for actuating said stirring device, and means for detachably connecting the stirring device to said electrically operating means.

1,786,878. ELECTROMAGNETIC DRAINING DEVICE. HERBERT VAN KEUREN, Kingstree, S. C., assignor to The Electro Automatic Drainage Company, Columbia, S. C., a Corporation of South Carolina. Filed Aug. 7, 1929. Serial No. 384,207. 6 Claims. (Cl. 137—34.3.)



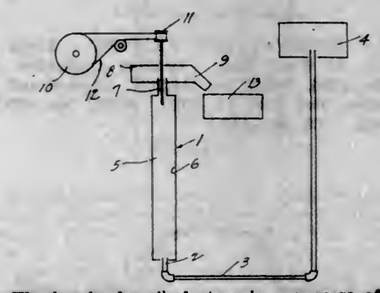
2. The combination with a water receptacle having a drain opening, a valve controlling said drain opening, a stem on said valve, a solenoid core carrying said stem, a solenoid winding associated with said core to open the valve upon energization of the winding, a thermostatic circuit closer, circuit connections between said circuit closer and winding, releasable latch means engaging and holding said valve in open position upon opening thereof, and electro-magnetic means for moving said latch to release position and including a normally open circuit and means to close the same.

1,786,879. SAFETY POCKET. LOUIS VINEBERG, Windsor, Ontario, Canada. Filed Nov. 13, 1929. Serial No. 406,851. 2 Claims. (Cl. 2—254.)



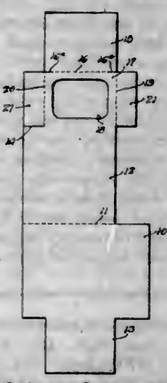
1. In a safety pocket of the type described, the combination of a pocket, elastic bands secured at their ends to the inside of said pocket, adjacent the top thereof, and an inner lining suspended from the top of said pocket in covering relation to said elastic bands, the bottom of said lining being open.

1,786,880. PROCESS OF TREATING TANNING SOLUTIONS. ANDREAS GUSTAV WACKENREUTER, Chicago, Ill. Filed Apr. 30, 1928. Serial No. 274,100. 2 Claims. (Cl. 149—4.)



1. The herein described steps in a process of treating a tanning solution which consists in submitting the solution to the selective action of hides, separating the hides from the solution, removing solids from the solution, and concentrating it.

1,786,881. HAIR-WAIVING WRAPPER. WARREN S. WATTS, Louisville, Ky., assignor to Arlette, Inc., Louisville, Ky., a Corporation of Delaware. Filed Mar. 21, 1929. Serial No. 348,867. 12 Claims. (Cl. 132—36.2.)



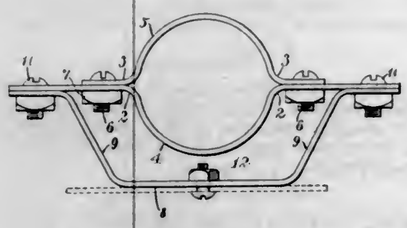
3. A sachet for hair waving comprising sheet material providing a casing having a window, and additional openings in said sheet cooperating with said window to allow the escape of moisture.

1,786,882. SUPERHEATER TUBE. WILLIAM B. WHITSITT and WALTER R. HEDEMAN, Baltimore, Md. Filed Nov. 8, 1926. Serial No. 147,160. 4 Claims. (Cl. 137—100.)



1. In a tubular superheated steam boiler, and in combination with a smoke tube, a steam superheater tube arranged within the smoke tube and heated by the products of combustion flowing therethrough, said superheater tube having a flow-change wall surface comprising double, short-pitch, shallow helical corrugations operating to effect a whirling motion of the flowing steam in a helical path and to mix the superheated steam lying next to the tube wall with the core of saturated steam surrounded thereby and to project the mixed steam by centrifugal force against the wall surface to produce a rapid and substantially uniform superheating of all the steam flowing through the tube.

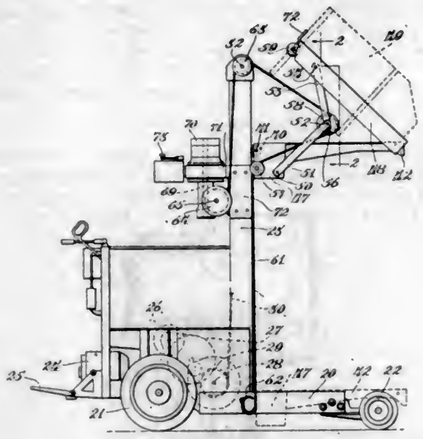
1,786,883. HIGHWAY-SIGN BRACKET. LOUIS W. ZAHONYI, St. Paul, Minn. Original application filed June 28, 1926, Serial No. 118,965. Divided and this application filed Feb. 24, 1930. Serial No. 430,587. 2 Claims. (Cl. 40—145.)



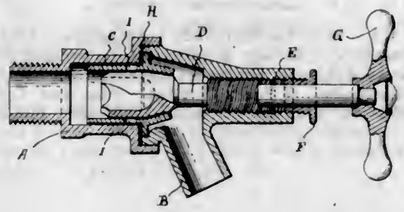
1. A sign bracket of the class described, including two members, said members being formed with central, outwardly curved post encircling portions and ends extending outwardly from said centrally curved portions, means for adjustably connecting said members on opposite sides of said centrally curved portions, and a sign supporting portion carried by one of said post encircling members, said sign supporting portion extending outwardly from the ends of the supporting post encircling member and across the face of said encircling member, said sign supporting portion being centrally spaced from the post encircling portion to centrally support a sign in spaced relationship to the post supported portion.

1,786,884. MATERIAL-HANDLING APPARATUS. JAMES R. ALLAN, Oak Park, Ill. Filed Dec. 5, 1928. Serial. N. 323,839. 27 Claims. (Cl. 214—121.)

1. The combination with a shop truck having a main frame and a vertical upright, a lift element movable along the upright, of a tiltable platform adapted to carry a material handling skid, said tiltable platform having pivotal connection with said lift element, a toggle link connected between the lift element and platform for operating the tilting of said platform, a pulley carried by the toggle link at its breaking point, a cable trained around said pulley, and means for actuating the cable.

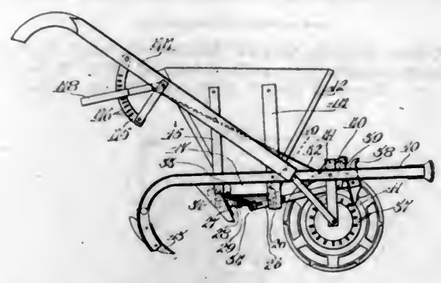


1,786,885. COCK OR FAUCET FOR FLUIDS. NATHANIEL WASHINGTON BANCROFT, Buenos Aires, Argentina. Filed July 31, 1929, Serial No. 382,425, and in Argentina July 4, 1929. 3 Claims. (Cl. 251—167.)



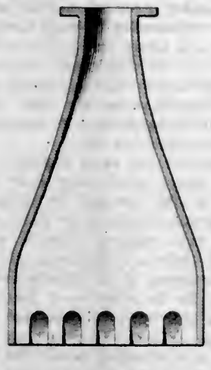
1. A cock or faucet for fluids comprising a chamber for the entrance of the fluid of a substantially cylindrical form and having on its insnde a hollow cylindro-conical fixed body arranged with its open larger end toward the entrance of fluid and its open smaller end towards the escape of same; a movable body slidably arranged inside of the said fixed body and having a portion of its outer surface formed so as to close hermetically the smaller open end of the said fixed body when moved outwardly in the direction of the fluid pressure; a portion of the outer surface of the said movable body fitting the cylindrical wall of the said fixed body, a flange for hermetically attaching said fixed body to the said entrance chamber, said flange being placed substantially at the point of separation between the cylindrical and the conical part of the said fixed body an annular space between the rear part of the said fixed body and the inner wall of the said entrance chamber, for the admission of water or fluid under pressure, the walls of the said fixed body having openings so arranged as to be hermetically closed by the cylindrical part of the said movable body, and opened only when said movable body is moved inwardly against the fluid pressure until its conical part corresponds with the said openings thus leaving them open and admitting the fluid from the said annular space, through the said opening; and the said movable body forming the head of a plunger the stem of which extends outwardly through a suitable packed passage in the chamber.

1,786,886. FERTILIZER DISTRIBUTOR. WILLIAM L. BEALL, Chattanooga, Tenn., assignor to International Harvester Company, a Corporation of New Jersey. Filed Aug. 24, 1928. Serial No. 301,789. 4 Claims. (Cl. 275—2.)



1. A vibrating delivery chute distributor comprising, in combination, a wheel supported frame and hopper, links pivotally supported by the frame, a structure connecting said links, a discharge chute supported by said structure beneath the discharge end of the hopper, a stop formed at one end of said structure, means for intermittently jerking the discharge chute and said structure in one direction, means for quickly returning the discharge chute, and said structure after each of said actions, an abutment fixed relative to the hopper and the frame which the stop engages to abruptly limit each of said returning movements.

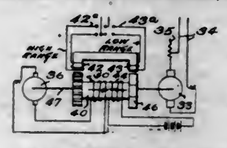
1,786,887. METHOD AND APPARATUS FOR BURNING PULVERIZED FUEL. JOHN E. BELL, Brooklyn, N. Y., assignor to Combustion Engineering Corporation, a Corporation of New York. Filed Apr. 13, 1922. Serial No. 552,258. 2 Claims. (Cl. 110—104.)



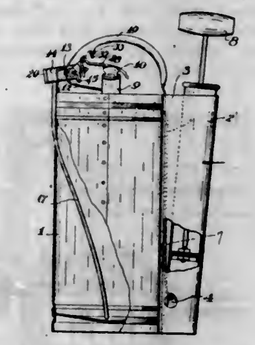
2. The method of delivering a mixture of pulverized fuel and air to a combustion chamber which consists in causing the mixture to move in a stream circular in cross section, in gradually changing the stream in cross-section from circular to a thin wide sheet of approximately the same area in cross-section, and then in causing the sheet to expand at a multiplicity of spaced points along its wide dimension and delivering it into the chamber.

1,786,888. ALTERNATING-CURRENT GENERATOR. THEODORE S. BINDSCHEDLER and WILLIAM A. WOOD, Detroit, Mich., assignors to The Steel Penetrometer Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 5, 1928. Serial No. 267,574. 4 Claims. (Cl. 172—137.)

1. Means for generating an alternating current variable in frequency, with voltage varying at a predetermined ratio, said means consisting of an alternating current generator, an exciting coil therefor, means for supplying to said coil a constant excitation current, means for varying the speed of said generator, and means for varying the effect of the excitation current inversely to the variation in speed of said generator.



1,786,889. SPRAYER. HENRY E. BRANDT, St. Paul, Minn., assignor to The Dobbins Manufacturing Company, North St. Paul, Minn., a Corporation of South Dakota. Filed June 6, 1927. Serial No. 196,875. 1 Claim. (Cl. 299—89.)



A spraying apparatus having in combination, a tank adapted to contain the liquid to be sprayed and air under pressure, a discharge nozzle carried by said tank, comprising a body having a removable plug in its front end with a small central aperture and a central bore extending rearwardly from said aperture, an annular chamber about said plug, said plug having passages substantially tangential to said bore connecting said bore and chamber, a plunger movable in said bore and of smaller diameter than said bore there being at all times a passage in said bore around said plunger throughout the length of said bore, means at the forward end of said plunger for closing said aperture, a chamber in the rear of said plug communicating at all times with said annular chamber about said plunger, a conduit leading from the liquid in said tank connected to said annular chamber, a conduit leading from the air space in said tank connected to said rear chamber and a valve in said last mentioned conduit for regulating the flow of air therethrough.

1,786,890. METHOD OF MANUFACTURING CELLULOSE AND TEXTILE FIBERS FROM VEGETABLE MATTER. CARL ALFRED BRAUN, Munich, Germany. Filed Aug. 15, 1927, Serial No. 213,194, and in France July 4, 1927. 3 Claims. (Cl. 92—11.)

1. The method of manufacturing cellulose and textile fibers from vegetable material, consisting in treating the vegetable material, at boiling temperature and corresponding pressure, with a sulphite solution initially containing caustic alkali and alkali salts of weak acids.

1,786,891. VIOLIN. HENRY P. BROWN and PETER FRANK TRUSCINSKI, South St. Paul, Minn. Filed Mar. 22, 1930. Serial No. 438,159. 5 Claims. (Cl. 84—275.)

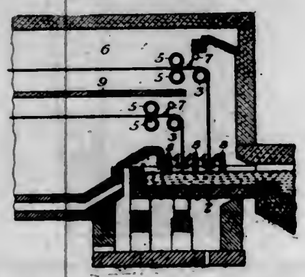
1. In a violin construction of the class described, a hollow body including a marginal rim, a top fastened on

said rim, and a multiple element sounding post assembly comprising a pair of longitudinally spaced upper post portions formed integral with the underside of said top



and depending into the body, a third post portion connected with said first named post portions and having its lower end resting on the interior of the bottom of said body.

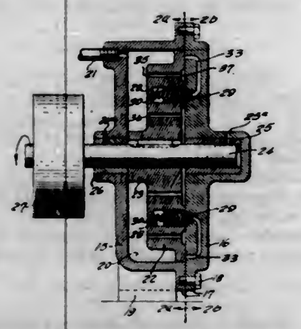
1,786,892. METHOD AND APPARATUS FOR THE MANUFACTURE OF SHEET GLASS. CLARENCE P. BYRNES, Sewickley, Pa., assignor to Window Glass Machine Company, Pittsburgh, Pa., a Corporation of New Jersey. Original application filed Mar. 2, 1920, Serial No. 362,844. Divided and this application filed July 5, 1924, Serial No. 724,255. 4 Claims. (Cl. 49—17.)



1. In an apparatus for simultaneously producing a plurality of sheets of glass, a horizontal leer, a series of conveyors for carrying the separate sheets in parallel horizontal planes through the leer, and means positioned between each pair of conveyors for protecting the lower sheets from falling material.

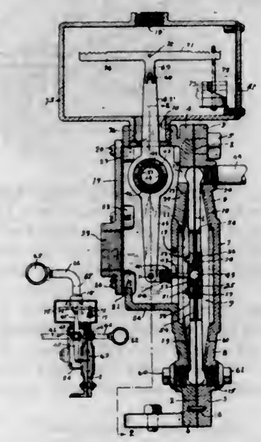
3. The process of producing sheet glass, consisting in providing a mass of molten glass, skimming the molten glass by drawing the surface therefrom in sheet form, and then drawing a sheet from the skimmed glass.

1,786,893. ROTARY FLUID COMPRESSOR. AUGUSTUS T. BURGER, Delano, Calif. Filed July 24, 1928. Serial No. 295,051. 7 Claims. (Cl. 230—152.)



1. A rotary fluid compressor comprising a stator having spaced channels therein concentric of the stator axis, intake and exhaust ports communicating with the channels, and a rotor having abutments movable successively in the channels to expel fluid therefrom in advance of the abutments and into the exhaust ports and to simultaneously induce fluid into the channels at the rear of the abutments, and means for closing the exhaust ports while the abutments are passing from one channel to the other to prevent back flow of the fluid into the channels.

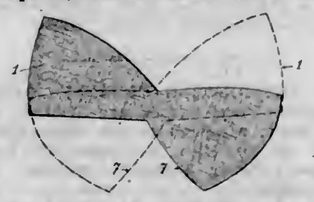
1,786,894. FLUID CONTROLLER. CHARLES ARTHUR BROWN, Lorain, Ohio. Filed Jan. 29, 1926, Serial No. 84,547. Renewed Nov. 7, 1928. 11 Claims. (Cl. 50—27.)



1. In a controller of the class described, a rotatable valve, a cylindrical concentric seat for the valve, said valve and seat each having a pair of alignable openings through their walls, a pair of fluid pressure cells, a diaphragm dividing the cells and exposed to the pressures of fluid contained in the cells, one of the cells being adapted to contain a liquid under pressure, a fluid passage adapted to convey, in a continuously upward direction, air from the liquid in the said liquid containing cell from all portions of that side of the diaphragm contacting with the liquid to one of the said valve openings, said one valve opening being disposed above the level of the topmost portion of the diaphragm surface in engagement with the liquid in the liquid containing cell.

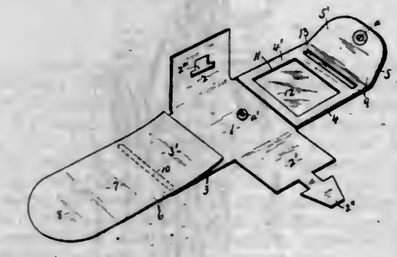
3. In a controller of the class described, the combination with a fluid casing, of a rotary valve and diaphragm disposed therein, a link adapted to communicate movements of the diaphragm to rotate the valve, said valve having at least one port opening thereof, when in opened position, disposed above a cylindrical co-axial projection of the effective periphery of the diaphragm when the diaphragm periphery is disposed in a vertcial plane, said casing providing a gas-conducting passage between the diaphragm periphery and the valve opening, having no portion of its upper wall disposed below the uppermost portion of such a cylindrical projection of the diaphragm periphery.

1,786,895. BUST BODICE. MARCEL CADOLLE, Paris, France. Filed Oct. 7, 1929, Serial No. 397,999, and in France Sept. 21, 1929. 2 Claims. (Cl. 2—42.)



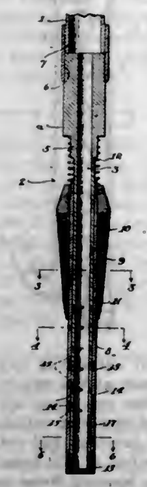
1. In a bust bodice, the combination of two pieces each having the shape of two opposed trianges connected at their apices, the straight of the fabric constituting these two pieces being directed lengthwise of the same, and said two pieces being placed cross-wise against each other with their adjacent edges sewn together, the whole of these two pieces being adapted to fit in the middle of the chest and on the inner portions of the breasts.

1,786,896. POCKETBOOK. CLARENCE G. CONGER, Syracuse, N. Y. Filed Dec. 7, 1929. Serial No. 412,494. 1 Claim. (Cl. 150—39.)



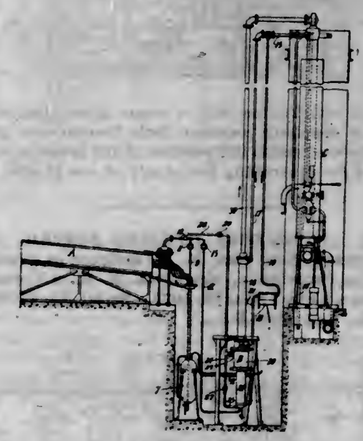
A folding pocketbook comprising a cruciform sheet of flexible material having a rectangular main body portion, opposite end wings of unequal length, the shorter wing being adapted to fold over and upon the body portion to form a pocket, opposite side wings adapted to fold over and upon the shorter end wing to form a second pocket, the longer end wing being adapted to fold over and upon the outer faces of the side wings and provided with an end flap adapted to fold over and upon the outer face of the main body or into the second pocket, an extension part secured to the outer end of the shorter wing and having its other end extended to approximately the junction of the shorter wing with the main body and free to open and close to form a secret pocket, the open end of which is closed by the fold at said junction.

1,786,897. OIL-WELL-TESTING DEVICE. ERNEST H. COX, Duncan, Okla. Filed Feb. 4, 1927. Serial No. 165,984. 2 Claims. (Cl. 166—1.)



1. In a device of the class described a tubular member adapted to be secured to the lower end of a drill stem, a sleeve encircling said tubular member and mounted for sliding movement with respect thereto, a stopper and packer element also encircling said tubular member and secured to the upper end of said sleeve, said tubular member and sleeve provided with perforations adapted to register when the sleeve is at the upper limit of its sliding movement, and means normally holding said sleeve in a position in which said perfotations are out of register.

1,786,898. ART OF LIQUEFACTION. WILLIAM L. DE BAUFRE; Lincoln, Nebr., and JOHN W. DAVIS, Washington, D. C. Filed Dec. 29, 1923. Serial No. 683,274. 5 Claims. (Cl. 62—122.)



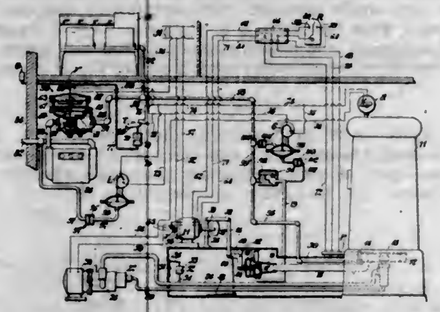
5. In the art of liquefaction, the liquefying of the major portion of the undesired constituents by an internal cycle of refrigeration and the liquefying of the remaining undesired constituents by an external cycle employing liquefied nitrogen as the refrigerating medium, without materially reducing the pressure of the gas being processed, the liquefied constituents being employed as return fluid in the internal cycle.

1,786,899. ELECTRIC TRANSFORMER. SEBASTIAN ZIANI DE FERRANTI, Hollinwood, England, assignor to Ferranti, Limited, Hollinwood, England. Filed Feb. 11, 1926, Serial No. 87,691, and in Great Britain Mar. 12, 1925. 2 Claims. (Cl. 175—356.)



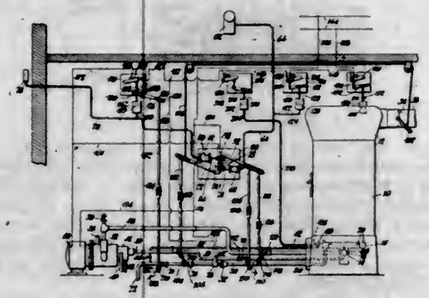
1. An electric transformer including in combination an inherently rigid openwork bobbin framework formed on a plurality of longitudinal ribs, two end flanges and one or more intermediately disposed rings, a plurality of radial projections disposed at points of intersection of the ribs and rings, a jointless winding wound in sections upon said bobbin, said sections being mutually separated axially by air spaces and by said radial projections, a plurality of metal soldering lugs rigid with said bobbin serving as terminal posts for the winding ends, and notches formed in said bobbins adjacent said soldering lugs serving to accommodate and mechanically to shield the wire.

1,786,900. HOUSE-HEATING SYSTEM. HENRY L. DOHERTY, New York, N. Y. Filed Dec. 18, 1925. Serial No. 76,152. 32 Claims. (Cl. 158—11.)



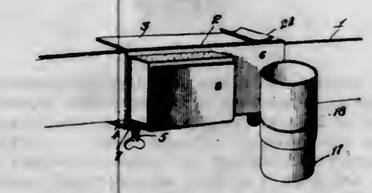
30. The combination with a steam generating boiler of means for supplying separate fuels thereto and pressure responsive mechanism independent of the pressure of steam generated for controlling the supply of one of said fuels.

1,786,901. FLUID-FUEL HEATING SYSTEM. HENRY L. DOHERTY, New York, N. Y., assignor to Combustion Utilities Corporation, New York, N. Y., a Corporation of Maine. Filed Dec. 23, 1925. Serial No. 77,252. 19 Claims. (Cl. 236—9.)



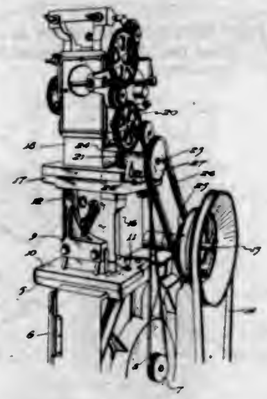
1. In a fluid fuel heating system, in combination, two fluid fuel burners, one adapted to burn a base fuel and one adapted to burn a secondary fuel, normally inoperative means for supplying fuel to said secondary fuel burner, and mechanism responsive to changes in temperature operable to place said means in operation and to simultaneously restrict the supply of fuel to said base fuel burner.

1,786,902. SMOKER'S ARTICLE. JAMES P. DOUGHTY, Jr., Augusta, Ga. Filed Sept. 17, 1928. Serial No. 306,573. 4 Claims. (Cl. 131—51.)



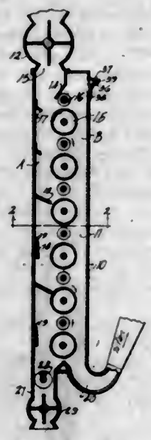
1. In a device of the class described, a support engaging member, an arm pivotally mounted thereon, a bracket mounted to swing on said arm at right-angles to the axis of movement of the arm and toward and away from the pivotal mounting of said arm, and an ash receptacle carried by said bracket.

1,786,903. COMBINED MOTION-PICTURE PROJECTOR AND PHOTOGRAPHIC SOUND-REPRODUCING MACHINE. CHARLES W. EBELING, New York, N. Y., assignor to General Talking Pictures Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 27, 1929. Serial No. 410,233. 3 Claims. (Cl. 88—16.2.)



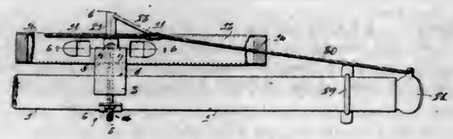
1. In a machine of this character, the combination of a supporting base, a photographic sound apparatus casing mounted thereon, and having a film progressing mechanism and a main drive shaft, a motion picture projecting apparatus casing mounted upon and carried by the first casing and having a film progressing mechanism, a driven shaft operably connected to the latter film progressing mechanism, and means for operably connecting the drive shaft to the driven shaft so that both film progressing mechanisms are operated in time relation.

1,786,904. COTTON-BOLL EXTRACTING AND CLEANING DEVICE. GEORGE E. EVANS, near Waco, Tex. Filed Oct. 25, 1929. Serial No. 402,449. 6 Claims. (Cl 19—37.)



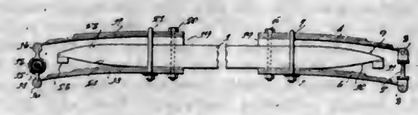
1. In a cottom boll extracting and cleaning device, a vertical housing, means at the upper end of the housing for dropping bur-cotton out of an air line into the housing, a vertical train of revolving cotton extracting elements dividing the housing into bur and cotton lanes extending from the top to the bottom of said housing, deflectors hinged in the bur lane of the housing, links connected to alternate deflectors for swinging them, a lever pivoted intermediate its ends and connected to said links at opposite sides of its pivot, and a cam controlled connection for oscillating said lever.

1,786,905. EXHAUST WHISTLE. JERIE EVICH, Santa Barbara, Calif. Filed Aug. 8, 1930. Serial No. 474,051. 5 Claims. (Cl. 116—138.)



1. In exhaust whistles, the combination with the exhaust pipe having a port in its wall, a whistle clamp block secured thereto over said port and itself having a port registering with said exhaust pipe port, a whistle pipe secured to said clamp block, a whistle controlling valve mounted on said pipe and registering with said clamp block port, a whistle dividing block having a seat for said valve, said whistle pipe having an opening at each end of said dividing block, and said dividing block having air passages to each opening controlled by said valve, plugs in the ends of said whistle pipe, and means to operate said valve.

1,786,906. FRAME AND SPRING SUSPENSION FOR MOTOR VEHICLES. CLAYTON E. FREDERICKSON, Moline, Ill., assignor, by mesne assignments, to Thompson Motor Corporation, Muscatine, Iowa. Filed June 15, 1929. Serial No. 371,219. 6 Claims. (Cl. 280—106.5.)



1. A frame including longitudinal beams having the upper and lower surfaces at their ends convexed, upper and lower leaf spring packs secured each at one end to the frame to project beyond the ends of the frame beams and cooperate with said convexed surfaces, front and rear axle structures, upper and lower shackle eyes carried by said structures to which the outer ends of said spring packs are pivotally secured the ends of said frame projecting between the spring packs.

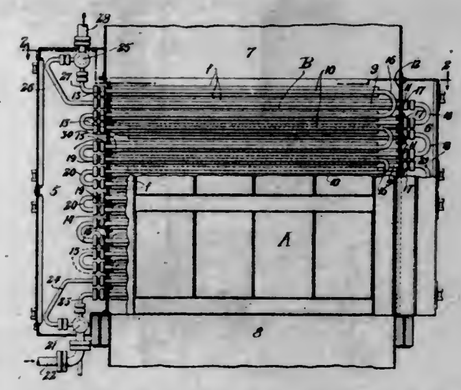
1,786,907. METHOD OF REPAIRING APPAREL SHOES. CLARK H. GEPPERT, Des Moines, Iowa. Filed July 2, 1929. Serial No. 375,588. 1 Claim. (Cl. 12—142.)

The method of repairing apparel shoes, which consists in applying to the sole of the shoe a semi-liquid mass containing rubber dissolved in a solvent such as benzine, and also containing a quantity of builders' cement, then applying the mass to a shoe sole, and then applying water to cause the cement to set and harden upon the evaporation of the solvent and the water.

1,786,908. PROCESS FOR THE SEPARATION AND PURIFICATION OF METALS AND METALLIC ALLOYS. ALBERT HANAK, Philadelphia, Pa. Filed Aug. 8, 1928. Serial No. 298,405. 6 Claims. (Cl. 75—15.)

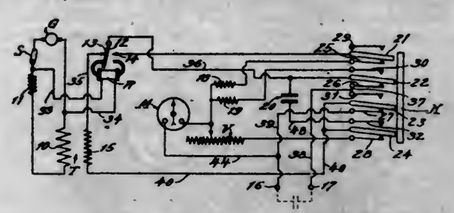
1. The process of separating antimony from lead alloys which comprises treating the alloy with an alkali metal to form a less fusible alloy of antimony and alkali metal dissolving same in caustic alkali in the molten state, separating the caustic melt and treating it with water thereby separating antimony in the metallic state.

1,786,909. ECONOMIZER. GEORGE P. JACKSON and KURT TORNSFELDT, Flushing, N. Y., and HARRY STEELE, Newark, N. J., assignors to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed June 1, 1929. Serial No. 367,669. 14 Claims. (Cl. 257—230.)



1. An economizer comprising, in combination, a casing having inlet and outlet for a heating medium, a plurality of rows of U-bent tubes in said casing, means for connecting the open ends of the U-bent tubes of each row for back and forth traverse therethrough, and means for supporting the tubes, said rows of tubes being arranged in interspaced relation with the U-bends of the tubes of adjacent rows at opposite ends of and within the casing.

1,786,910. TESTING INSTRUMENT FOR ELECTRICAL CONDENSERS. CHARLES C. JONES, Phoenix, Ariz. Filed Apr. 1, 1929. Serial No. 351,734. 9 Claims. (Cl. 175—183.)

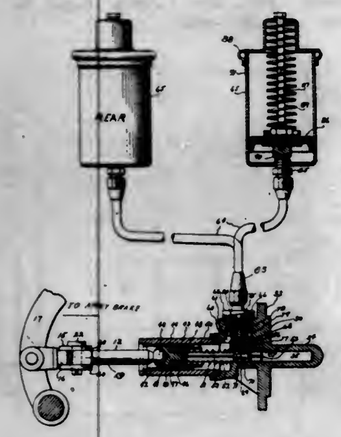


1. A testing instrument of the character described comprising a circuit including a source of alternating current supply, means for limiting the current flow in said circuit to a predetermined wattage, a step up transformer having the primary thereof included in said circuit, a second circuit including the secondary of the transformer and terminals across which a condenser to be tested is adapted to be connected, a polarized relay in the second circuit for causing the condenser under test to be charged and discharged with each cycle of current from said source, and a galvanometer so included in parallel in said circuit when the condenser under test is being discharged, as to indicate the capacity of the condenser.

1,786,911. PROCESS FOR THE MANUFACTURE OF TRANSPARENT PAPERS, PARTICULARLY THOSE USED FOR THE PACKING OF EDIBLE ARTICLES. OTTO KLOTZ, Goppingen, Germany. Filed Feb. 25, 1927, Serial No. 171,071, and in Germany Oct. 9, 1926. 1 Claim. (Cl. 91—68.)

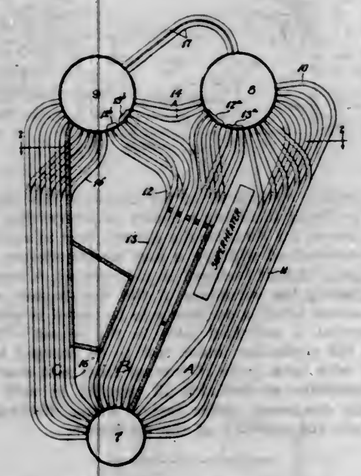
A process for producing a transparent paper particularly for packing edibles, which comprises in coating the outside of both sides of a translucent paper with a solution of gelatine to render it transparent.

1,786,912. VEHICLE BRAKE. EDWARD J. MADDEN, Detroit, Mich. Filed Oct. 21, 1927. Serial No. 227,712. 5 Claims. (Cl. 60—546.)



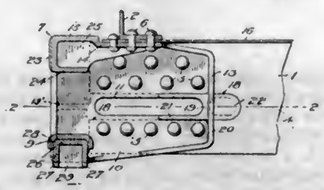
3. In hydraulic vehicle brakes, a master cylinder, a piston therein movable to actuate the brakes, a reserve tank, a conduit from said tank to said cylinder, means for forcing liquid to flow from said tank to said cylinder, a valve operable to close said conduit and having a stem portion, a cam member carried by said piston, and acting on said stem to close said valve during initial movement of said piston.

1,786,913. BENT-TUBE BOILER. LEONARD J. MARSHALL, Westwood, N. J., assignor to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 21, 1929. Serial No. 348,807. 6 Claims. (Cl. 122—302.)



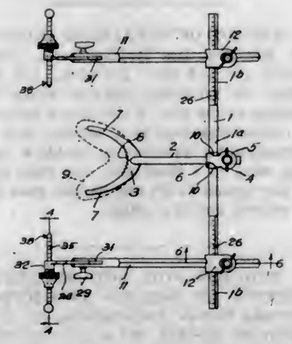
1. In combination, a bent tube boiler having a plurality of relatively large thin walled steam and water drums, a mud drum, and connecting banks of tubes, each bank consisting of non-staggered tubes, every alternate row of the first bank being connected to the first steam and water drum in a different region than the other rows circumferentially of the drum, and every row of the second bank having part of its tubes connected with the first and part with the second steam and water drum but with alternate rows connected to said drums at different regions circumferentially from the other rows thereof, and the alternate rows of the third bank being connected with the second drum at regions circumferentially different from the other rows thereof.

1,786,914. DRAFT MEMBER. MARK H. MARTIN, Baltimore, Md., assignor to The Symington Company, New York, N. Y., a Corporation of Maryland. Filed Aug. 24, 1925. Serial No. 52,062. 2 Claims. (Cl. 213—50.)



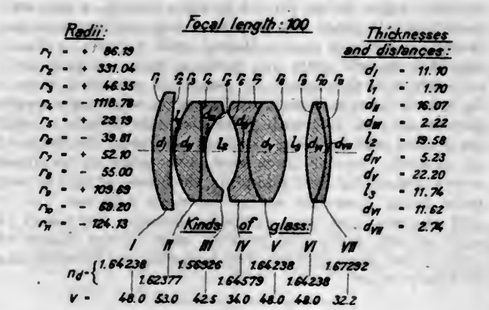
2. An integral draft casting adapted for connection to sills of a car and comprising a striking portion having an outer face, a coupler carrier portion, and side portions, the outer ends of which side portions are widened and formed with forward faces in approximate alinement with said outer face of the striking portion, said side portions extending rearwardly and adapted for connection to the inner faces of draft sills to form cheek plates terminating in draft lugs, said cheek plate portions being slotted with the rear ends of the slotted portions reinforced by bosses, the inner portions of said bosses reinforcing the draft lugs and tapering forwardly to merge into the inner faces of the cheek plate portions, the outer portions of said bosses being adapted to extend through corresponding slots in the sills and tapering forwardly to merge into the outer faces of said cheek plate portions, the widened portions at the front of the side portions of the casting being reinforced by means extending from the outer faces of said side portions, a top shelf portion on the casting extending rearwardly from and reinforcing the striking portion thereof, means connecting the upper ends of said draft lugs with said shell portion, the lower portions of said draft lugs being reinforced by tapering flanges extending along the lower edges of the side portions toward the coupler carrier portion thereof.

1,786,915. DENTAL APPARATUS. DAVID W. MCLEAN, Los Angeles, Calif. Filed May 9, 1928. Serial No. 276,209. 4 Claims. (Cl. 32—1.)



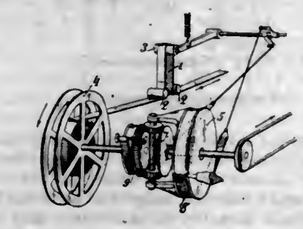
1. A dental face bow comprising a transverse member, a bite plate projecting rearwardly from said transverse member and provided with means rotatably supporting said bite plate on said transverse member so as to permit relative rotation of said transverse member with respect to said bite plate about an axis parallel to said transverse member, means for clamping said transverse member and bite plate in fixed relative position, side arms projecting rearwardly and upwardly from the respective ends of said transverse member, means connecting said side arms to said transverse member and slidably but nonrotatably engaging both the transverse member and the respective side arms, so as to permit independent relative sliding movement of each side arm with respect to the transverse member, longitudinally of said transverse member and longitudinally of the side arm, while preventing relative rotation thereof about an axis extending longitudinally of the side arm and also about an axis extending perpendicular to both the transverse member and the side arm, means for clamping said connecting means to hold said transverse member and side arms in fixed relative positions, and axis locating members mounted at the rear ends of the respective side arms.

1,786,916. OBJECTIVE CORRECTED SPHERICALLY, CHROMATICALLY, ASTIGMATICALLY, AND FOR COMA. WILLY MERTÉ, Jena, Germany, assignor to the Firm of Carl Zeiss, Jena, Germany. Filed Sept. 7, 1928, Serial No. 304,470, and in Germany Sept. 29, 1927. 6 Claims. (Cl. 88—57.)



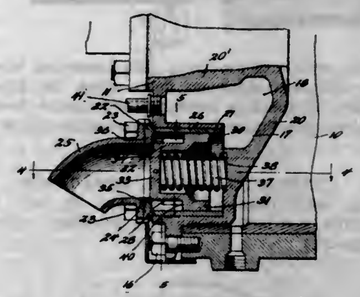
1. Photographic objective corrected spherically, chromatically, astigmatically and for coma, consisting of four lenses separated by air, of which the two outer ones are collective, while the two inner ones are dispersive and distinctly menisci whose concave surfaces face each other, of the two collective lenses the one facing the image being distinctly biconvex and the proportion in which, in the other collective lens, the curvature radius of the strongest curved boundary surface stands to the curvature radius of the other boundary surface, being algebraically larger than the corresponding proportion of the collecting lens facing the image.

1,786,917. DEVICE FOR THE AUTOMATIC ADJUSTMENT OF THE TENSIONS OF FILMS. ETIENNE OEHMICHEN, Valentigney, France. Filed Aug. 9, 1927, Serial No. 211,803, and in France Aug. 17, 1926. 5 Claims. (Cl. 242—75.)



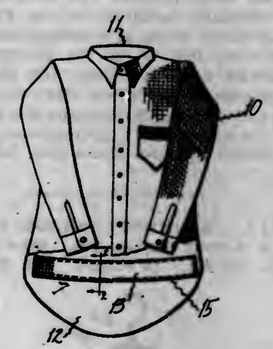
4. In a cinematographic apparatus or the like, the combination of a film spool, driving means for rotating this spool, braking means for braking the said spool, and means controlled by the variations of tension of the film and adapted to control both the said driving means and braking means, so as to apply the one while the other is released.

1,786,918. RELIEF VALVE. EDWARD BRUCE RANCK, Altoona, Pa. Filed May 16, 1928. Serial No. 278,228. 10 Claims. (Cl. 121—184.)



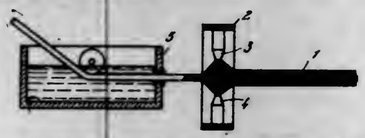
2. In a steam engine, in combination, a cylinder, a cylinder head, a chamber integral with said head, a sleeve passing thru the outer wall of said head into said chamber and dividing the same into two compartments, one connected to the cylinder space, means to supply steam at substantially boiler pressure to the other compartment, the outer end of said sleeve being open to atmosphere, a valve seat adjacent the open end, a piston operable in said sleeve, and exposed on opposite faces to the respective pressures in said compartments, means on said piston to cooperate with said valve seat and to reduce the area of piston exposed to cylinder pressure and means providing communication between said compartment connected to the cylinder and the interior of the sleeve adjacent said valve seat.

1,786,919. SHIRT. GEORGE A. RIPLEY, Dallas, Tex. Filed Dec. 26, 1928. Serial No. 328,347. 1 Claim. (Cl. 2—116.)



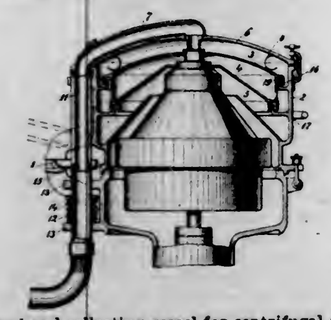
As an article of manufacture, a shirt having a collar of the same material as the shirt and provided with a strip of the same material as the collar stitched transversely on the tail of the shirt and forming a part thereof, said strip having its face exposed and being of such shape as to be utilized to recover the collar.

1,786,920. PROCESS FOR PRODUCING THIN INSULATING LAYERS UPON WIRES. REINHOLD RÜDENBERG, Berlin-Grunewald, and WALTER SCHOTTKY, Berlin-Charlottenburg, Germany, assignors to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany, a Corporation of Germany. Filed Jan. 10, 1929, Serial No. 331,685, and in Germany Jan. 16, 1928. 4 Claims. (Cl. 91—68.)



2. In the process of producing thin insulating layers of less than 0.01 mm. thickness upon wires, the alternate precipitation of different insulating substances from the gaseous state upon the surface of the strongly cooled wire.

1,786,921. CENTRIFUGAL-BOWL SEPARATOR. CARL SCHMITZ, Oelde, Germany. Filed Apr. 22, 1929, Serial No. 357,159, and in Germany Apr. 27, 1928. 4 Claims. (Cl. 233—28.)



1. A feed and collecting vessel for centrifugal apparatus, comprising an integral outer casing having a plurality of troughs one over the other and decreasing in size from the bottom to the top; a collecting chamber lid for each trough; a pipe connected to each trough decreasing in size from the top to the bottom; a cover for the casing; and a pipe secured to the center of the cover.

1,786,922. PRODUCTION OF THYMOL. WALTER SCHOELLER, Berlin-Westend, and HANS JORDAN, Berlin-Steglitz, Germany, assignors to the Firm Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Filed June 20, 1927, Serial No. 200,297, and in Germany June 29, 1926. 2 Claims. (Cl. 260—154.)

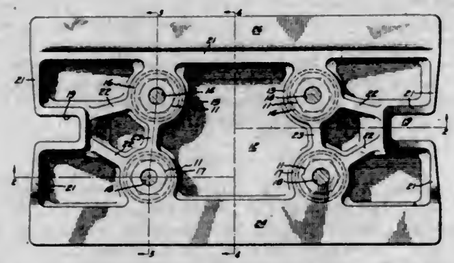
1. The process of producing alkyl isopropyl phenols comprising acting on an alkyl-isopropylene phenol at about 160° C. in the presence of a hydrogenation catalyst with hydrogen, until 2 hydrogen atoms have entered into combination.

1,786,923. GARMENT-HANGER ATTACHMENT. GEORGE E. SCRUBY, Dallas, Tex. Filed Nov. 14, 1927. Serial No. 233,254. 10 Claims. (Cl. 223—62.)



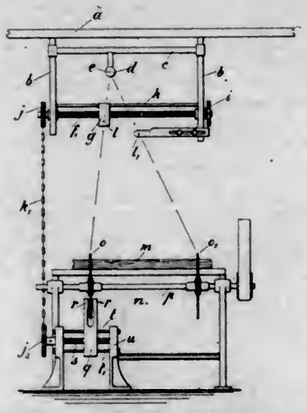
1. The combination with a wire garment hanger having inclined top members and a transverse bottom member, of an attachment comprising a sheet folded over the hanger having shoulder supports overlying the top members of the hanger and provided with a flap overlying the bottom member of the hanger and a garment opening contiguous to the flap.

1,786,924. TRACK SHOE. WILLIAM TURNBULL, Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif., a Corporation of California. Filed June 8, 1927. Serial No. 197,325. 1 Claim. (Cl. 305—10.)



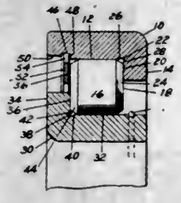
As an article of manufacture, a track shoe comprising an integral structure including a substantially flat, rectangular plate having lateral recesses therein, a side wall bounding said plate and also bounding said recesses and providing inclined seats adjacent said recesses, a flange spaced from said plate and merging with one portion of said side wall throughout the length of said track shoe, a lip spaced from said plate and merging with the opposite portion of said side wall throughout the length of said track shoe, said lip being arranged to overlap the flange of an adjacent, similar track shoe, two pairs of apertured bosses upstanding from said plate, the bosses of each of said pairs being unequally spaced from an adjacent one of said recesses, and webs extending between the bosses of each of said pairs and between each of the bosses of each of said pairs and the wall bounding the adjacent one of said recesses.

1,786,925. DEVICE FOR PRODUCING SHADOW LINES ON WORK PIECES. HUBERT WIEGELMANN, Neheim, Germany. Filed Sept. 11, 1928. Serial No. 305,281. 2 Claims. (Cl. 143—168.)



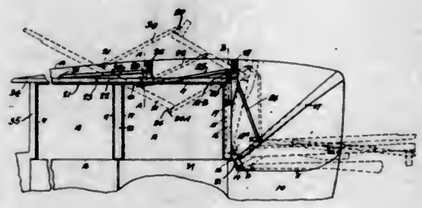
1. A device for producing shadow lines on work pieces of sawing machines comprising a carrying frame; a stationary light mounted on said frame; an adjustable wire mounted on said frame and adapted to be moved laterally; a stationary wire mounted on said frame, said adjustable wire cooperating with a movable saw of the sawing machine and the stationary wire with a stationary saw; means for mounting the adjustable wire and the movable saw so that said saw and wire can be adjusted toward or away from the stationary wire and saw to laterally move the shadow line caused by the adjustable wire and light; and means for moving the wire and saw laterally at a speed which is proportional to their distance from the source of light.

1,786,926. ROLLER BEARING. REGINALD E. WELLS, East Orange, N. J., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Nov. 17, 1925. Serial No. 69,635. 7 Claims. (Cl. 308—213.)



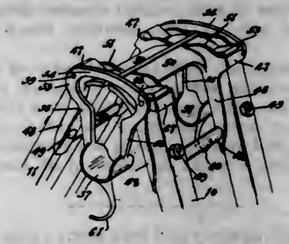
1. In a roller bearing or the like, a race-member having a bearing-surface, a roller having a cooperating bearing-surface, and means for limiting play of said roller, said race-member being provided with a grinding-relief recess between its said bearing-surface and said limiting means, and said bearing-surface of said roller ending at a point short of said recess when said roller is at the limit of play defined by said limiting means, whereby in said position a portion of said bearing-surface of said race-member projects beyond said bearing-surface of said roller, substantially as described.

1,786,927. COLLAPSIBLE ROOF BODY FOR AUTOMOBILES. CARL E. E. WOLFERMANN, New York, N. Y. Filed Jan. 28, 1928. Serial No. 250,178. 3 Claims. (Cl. 296—116.)



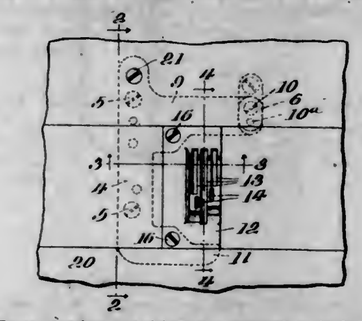
1. In a collapsible roof for automobiles and similar vehicles the combination with a car body, having a downwardly extending recess at its rear end, of a double bent brace hingedly secured to the car body by its short arm and having its long arm disposed perpendicularly, a rear bow hingedly secured to the rear side of aforesaid short arm, a horizontally disposed brace hingedly secured to the outside and shortly below the upper end of aforesaid perpendicular arm, having an upwardly disposed projection at its front end, and an extension brace linearly arranged with aforesaid horizontal brace having a downwardly extending projection at its rear end, a horizontally disposed link hingedly connecting both the aforesaid horizontal rail and the extension brace, a double bent lever hingedly secured at its bend to the inside of the upper end of aforesaid brace, and with its front end to aforesaid extension braces at the end of its downwardly extending projection, a link hingedly connecting the rear bow with the end of the short arm of aforesaid lever, and a link hingedly connecting the upper end of the upwardly projection of the horizontally disposed rail with the extension brace.

1,786,928. TENT. SYLVANUS E. WRIGLEY, Sturgeon Creek, Manitoba, Canada. Filed Nov. 7, 1929, Serial No. 405,502, and in Canada May 27, 1929. 12 Claims. (Cl. 135—4.)



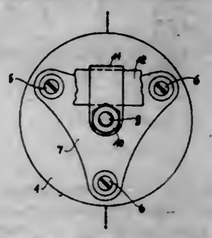
1. A tent frame structure comprising a ridge pole, pairs of pivotally connected legs and ridge pole receiving and clamping means carried by the pairs of legs and embodying cradles and jaws between which the ends of the ridge pole are passed.

1,786,929. THROAT-PLATE SUPPORT FOR SEWING MACHINES. FREDERICK F. ZEIER, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 29, 1928. Serial No. 302,874. 5 Claims. (Cl. 112—260.)



1. In a sewing machine a supporting bed, a bracket formed integral therewith and disposed at one side of the line of feed, a supporting post disposed at the other side of the line of feed and in rear of the needles, a supporting member mounted on said bracket and having an integral lateral projection in rear of the needles resting thereon and secured to said supporting post and bridging the feed bar of the machine, said support having a laterally projecting portion in front of the needles overhanging the bracket, a throat plate secured at its rear end to the laterally projecting portion of the support in rear of the needles and at its front end to the laterally projecting portion of the support in front of the needles.

1,786,930. ACOUSTIC SIGNALING APPARATUS. GUSTAV ADOLF ZEININGER, Oberesslingen, Germany, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Filed Mar. 31, 1928, Serial No. 266,260, and in Germany May 21, 1927. 5 Claims. (Cl. 177—7.)

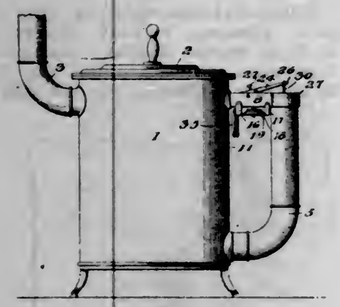


1. The combination, with acoustic signaling means including a vibratory sound-producing member, and sup-

porting means to which said signaling means is to be connected, of a resilient member, connected substantially at its center to one of said means and adjacent its periphery to the other means, for supporting said signaling means, the center of said resilient member lying substantially on the axis of the vibratory sound-producing member.

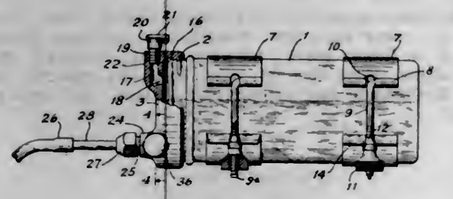
2. The combination, with acoustic signaling apparatus including a housing and a sound-producing diaphragm, of means for mounting said apparatus on a vehicle, comprising resilient means secured to the vehicle and to the said housing, said resilient means being so located as to permit substantially equal movement of all parts of said housing.

1,786,931. AUTOMATIC DRAFT REGULATOR. CAMB J. ASHLEY, Goodloes, Va. Filed Apr. 29, 1929. Serial No. 359,082. 6 Claims. (Cl. 236—15.)



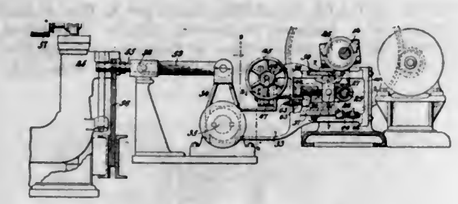
1. The combination with an air-tight stove having a down draft pipe extending along the side thereof and spaced therefrom, an automatic damper control secured to the stove and having a cap embracing the upper end of the down draft pipe, a damper carried thereby and adapted to auotmatically control the down draft in said pipe.

1,786,932. WINDSHIELD-CLEARING DEVICE. ALBERT W. BECKER, Hartford, Conn. Filed June 29, 1928. Serial No. 289,298. 18 Claims. (Cl. 20—40.5.)



1. A windshield clearing device having a reservoir provided with a closed and an open end, a cover on said open end and a pipe line connected to said cover, said reservoir being transparent and said cover non-transparent.

1,786,933. SHAKE MECHANISM. FREDERICK A. BOWMAN, Wilmington, Del., assignor to The Pusey & Jones Corporation, Wilmington, Del., a Corporation of Delaware. Filed Aug. 24, 1928. Serial No. 301,865. 19 Claims. (Cl. 92—45.)



1. A shake mechanism comprising a power shaft, a rocking member pivoted to the frame and receiving a reciprocating motion from said shaft, a vibratory lever, and connecting devices between said rocking member and said lever comprising a pivot and a carrier therefor slidably mounted in ways on one of said members, bearings for said pivot slidably mounted in ways on the other member, and hand operated adjusting means for said movable parts, operable while the machine is running.

1,786,934. CONNECTING ROD. BURDETT B. BRIGGS, Chicago, Ill. Filed Apr. 29, 1926. Serial No. 105,605. 12 Claims. (Cl. 74—108.)

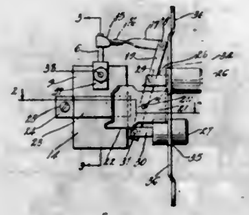


1. A connecting rod having a rod body and an eye at one end thereof, said eye and body having a kerf leading from the eye into said body, means to force the sides of the kerf toward each other and thereby contract the eye, a bushing having a slot extending longitudinally thereof and fitting in said eye and provided with circumferentially spaced longitudinal grooves, and a removable and replaceable shim held in said kerf and slot and having an edge coincident with and conforming to the inner surface of the bushing.

1,786,935. ELECTRIC SWITCH. GALUSHA A. BURGESS, Long Beach, Calif. Filed June 20, 1928. Serial No. 286,974. 7 Claims. (Cl. 200—153.)

1. In a noiseless electric wall-switch for closing an electric circuit, the combination of a wall-plate, a switch-

casing, a movable switch-member for opening and closing the circuit, hand actuated means supported on the wall-plate, and non-extensible means connecting the same with the switch-member to operate it, said parts being freely



movable from their position of rest in a direction to close or open the switch and operating to hold the switch closed or open by reason of the inertia of rest of the parts in the position in which they are left.

1,786,936. TAPERED WIRE ROPE AND METHOD OF MAKING THE SAME. WILLIAM E. CRAIG, Trenton, N. J., assignor to John A. Roebling's Sons Company, Trenton, N. J., a Corporation of New Jersey. Filed July 7, 1928. Serial No. 291,015. 5 Claims. (Cl. 117—59.)

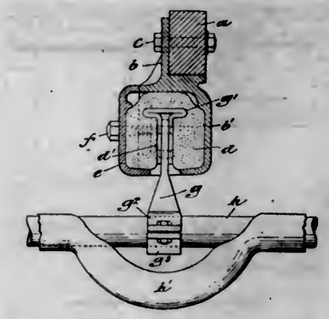


1. The method of tapering a wire rope of the type having a core, which consists in successively decreasing the number of strands and substituting each dropped strand for the core through a substantial portion of the length of the rope.

2. A tapered wire rope having a successively decreasing number of strands.

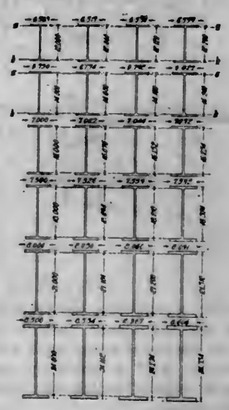
1,786,937. MOUNTING FOR ELECTRIC CONDUCTORS. WILLIAM R. EDSON, New York, N. Y., assignor, by mesne assignments, to The Rubber Shock Insulator Corporation, Wilmington, Del., a Corporation of Delaware. Filed June 17, 1926. Serial No. 116,521. 1 Claim. (Cl. 173—366.)

Means for supporting a wire composed of a core and a jacket comprising supporting means, a housing carried thereby, a cover for the housing, yielding non-conducting cushioning means carried by the housing, means to secure the cover plate to the housing and to place the



cushioning means under compression, and means carried by said cushioning means for engaging the core of the wire, the jacket thereof forming a by-pass around the engaging means.

1,786,938. SERIES AND GROUPS OF I-BEAMS. JAMES H. EDWARDS, Passaic, and FREDERICK T. LLEWELLYN, Montclair, N. J.; and ROBERT A. MARBLE, Ben Avon, Pa. Filed May 16, 1925, Serial No. 30,688. Renewed Sept. 21, 1929. 7 Claims. (Cl. 189—37.)

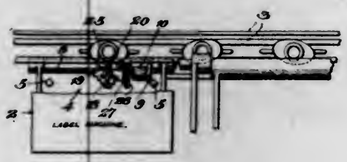


1. A series of rolled sections whose depths, weights per unit of length and strengths in the direction of their depths progress by a constant geometrical ratio.

1,786,939. BOTTLE-STRAIGHTENING DEVICE. ARVID P. EKVALL, Worcester, Mass., assignor to Economic Machinery Company, Worcester, Mass., a Corporation of Massachusetts. Filed Feb. 27, 1928. Serial No. 257,314. 12 Claims. (Cl. 216—9.)

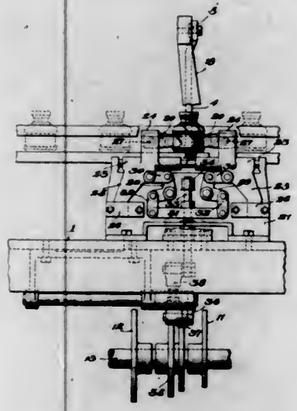
1. In combination with a conveying trough or guideway having article conveying means therein, an article

straightening device comprising a pair of relatively separated fingers, and means to bring said fingers into en-



gagement with the article within the trough or guideway when the article is released by the conveying means to correctly align said article therein.

1,786,940. LABEL WIPER. ARVID P. EKVALL, Worcester, Mass., assignor to Economic Machinery Company, Worcester, Mass., a Corporation of Massachusetts. Filed Feb. 27, 1928. Serial No. 257,315. 9 Claims. (Cl. 216—38.)

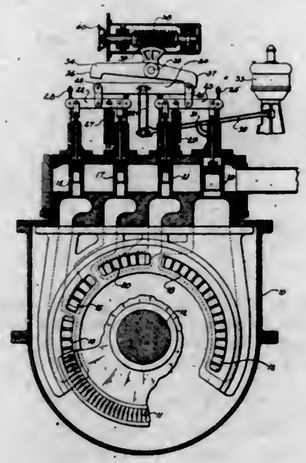


1. A label wiping mechanism comprising a pair of oppositely disposed slidable wipers, positive actuated means for advancing said wipers towards each other, and means for feeding a bottle with a partially applied label to the action of said wipers during the advancing sliding movements of the latter.

1,786,941. PROCESS FOR DESULPHURIZING ARTICLES CONSISTING OF REGENERATED CELLULOSE. WILHELM ELLER and TOTILA MADLUNG, Dessau in Anhalt, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed May 7, 1928, Serial No. 275,957, and in Germany July 13, 1927. 4 Claims. (Cl. 18—54.)

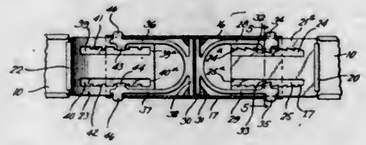
1. The process which comprises desulphurizing articles, consisting of regenerated cellulose and obtainable by coagulating a viscose solution, by treating them with a solution of the strongly colored by-products contained in crude cellulose xanthate.

1,786,942. ELASTIC-FLUID TURBINE. LINDSEY C. FLETCHER, Moores, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 25, 1929. Serial No. 395,086. 5 Claims. (Cl. 137—158.)



2. In a steam chest for an elastic fluid turbine, the combination of a first valve means adapted to admit the required amount of motive fluid for carrying a relatively light load, a second valve means adapted to admit the required motive fluid for a relatively greater load, governor mechanism responsive to the speed of the turbine, and means whereby the governor mechanism may be selectively caused to operate either valve means.

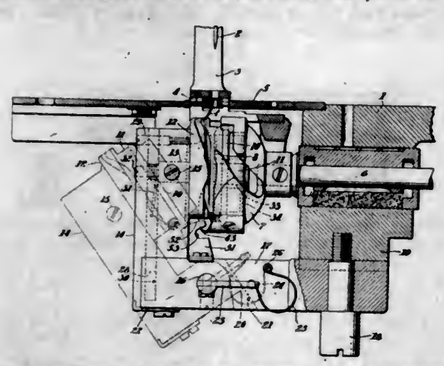
1,786,943. BRACELET CONSTRUCTION. OVE L. GAMMELL, Attleboro, Mass., assignor to Smith & Crosby, Attleboro, Mass., a Copartnership composed of Alfred D. Crosby and George H. Crosby. Filed July 13, 1927. Serial No. 205,359. 12 Claims. (Cl. 24—206.)



1. In bracelet construction, in combination, a pair of coacting bracelet members relatively slidable in a direction lengthwise of the bracelet to change the length of the bracelet, said members having plate-like portions overlapping one another, a plate-like member on the underside of one of said members and having formed therein a plurality of notches, and means secured to the other of said members for selectively engaging said notches, said notched plate-like member being received between said last-mentioned means and said overlapping plate-like portions.

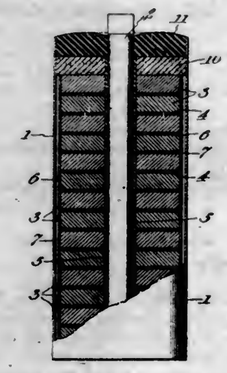
1,786,944. LOCK-STITCH SEWING MACHINE. MARTIN HEMLEB, Elizabeth, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Nov. 30, 1928. Serial No. 322,603. 8 Claims. (Cl. 112—181.)

1. In a sewing machine, in combination, a reciprocating needle, a cup-shaped rotary hook having an open-sided raceway, a bobbin-case in said raceway, a bobbin-case retainer movable from sewing position adjacent said hook to open position more remote therefrom, manually operated seizing means on said retainer for removing the bobbin-case from the hook when the bobbin-case retainer is shifted to open position, and a stationary rest mounted in



a fixed position to engage and support the bobbin-case on the opened retainer after the bobbin-case is removed from the hook and released by said seizing means, said rest being out of engagement with the bobbin-case when the latter is in working position in said hook.

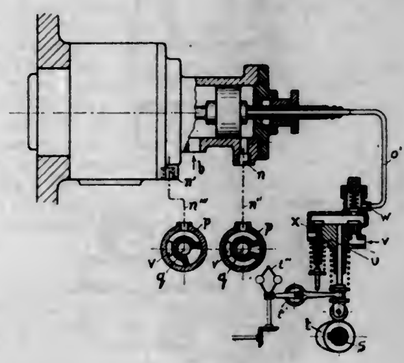
1,786,945. METHOD OF MAKING DRY CELLS. WILLIAM FERRIS HENDAY, Ossining, N. Y., assignor, by mesne assignments, to National Carbon Company, Inc., New York, N. Y., a Corporation of New York. Original application filed July 30, 1923, Serial No. 654,611. Patent No. 1,637,446. Divided and this application filed June 16, 1927. Serial No. 199,341. 3 Claims. (Cl. 136—175.)



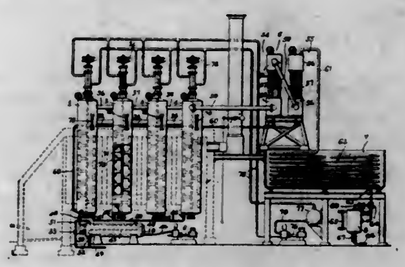
3. The method of making dry cells which comprises compacting a mixture of depolarizing and carbonaceous materials into a plurality of tablets, moving at least one side of each of said tablets in contact with powdered conductive material so as to produce a conductive layer thereon having less resistance to the flow of electric current than the body of the tablet, assembling said tablets to form a bobbin so that the adjacent sides of each adjacent pair of tablets are separated by at least one of said layers, and placing said bobbin in a container electrode.

1,786,946. FUEL-INJECTION DEVICE FOR EXPLOSION ENGINES. FRIEDRICH HOFMANN, Mulheim-on-the Ruhr, Germany, assignor to Holzwarth Gas Turbine Co., San Francisco, Calif., a Corporation of Delaware. Filed May 13, 1927, Serial No. 191,109, and in Germany Apr. 4, 1927. 8 Claims. (Cl. 60—41.)

2. A device for injecting air and fuel into a combustion chamber, comprising a casing provided with a connection for the admission of compressed air, with an outlet for the discharge of such compressed air, and with a valve seat between said connection and said outlet, a valve adapted to engage said seat and to establish or interrupt the passage of compressed air to said outlet, a tubular stem movable in unison with said valve, the latter being provided with a passage communicating with the interior of said stem for discharging fuel adjacent to said air outlet, a pump for supplying fuel to said stem, a scavenging air valve surrounding said casing and slidable thereon, and an outer valve casing provided with a seat for said scavenging air valve and with a connection for the supply of scavenging air.



1,786,947. METHOD OF CRACKING OILS. RALPH C. HOLMES, New York, N. Y., and FREDERICK T. MANLEY, Houston, Tex., assignors, by mesne assignments, to The Texas Company, New York, N. Y., a Corporation of Delaware. Original application filed June 26, 1919, Serial No. 306,936. Divided and this application filed Apr. 9, 1926. Serial No. 100,790. 13 Claims. (Cl. 196—49.)

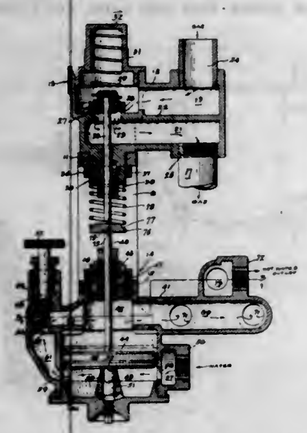


1. A process of cracking oil that comprises charging the oil into a plurality of series-connected vertical converters through which it passes in succession, heating the converters intermediate their ends to a cracking temperature and supplying most heat to the first converter of the series, maintaining the liquid level in the converters above the heated intermediate portions thereof, separating out the heavier constituents of the evolved vapors by condensation, and returning the condensate to the first converter receiving the most heat.

1,786,948. AUTOMATIC WATER-HEATER CONTROL VALVE. ROBERT C. HOYT, Oakland, Calif. Filed Apr. 22, 1927. Serial No. 185,864. 7 Claims. (Cl. 236—25.)

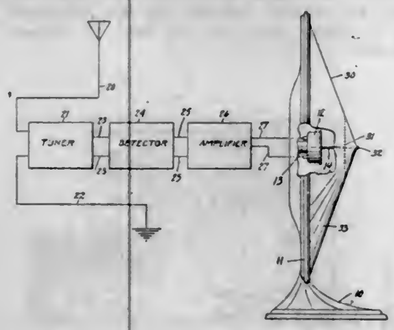
1. In combination with a self-closing fuel valve of an automatic water heater, a rod member longitudinally

reciprocable to open said valve, water pressure controlled means for actuating said rod, a helical spring axially operative against said rod to resiliently urge it to maintain an inoperative relation with respect to said valve,



and a member providing a seat for said spring operatively interposed between said spring and rod and arranged for a freely pivotal and rocking engagement with said rod whereby the pressure of said spring will be exerted entirely axially of said rod.

1,786,949. SOUND-PROPAGATING DIAPHRAGM. MILLER REESE HUTCHISON, Llewelyn Park, West Orange, N. J., assignor to Premier Laboratory Company, a Corporation of Delaware. Filed May 2, 1928. Serial No. 274,528. 1 Claim. (Cl. 181—31.)

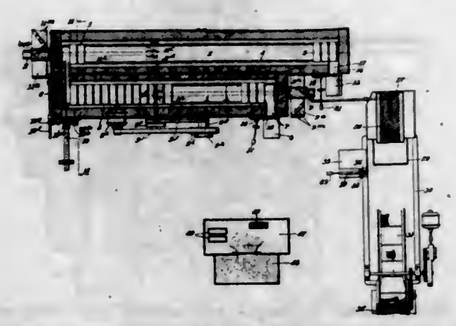


A sound propagating diaphragm comprising a cone having a circular line of closely adjacent apertures symmetrically arranged, the center of curvature coinciding with the center of said cone, the radius of said circle being approximately one fourth the radius of the cone.

1,786,950. CATALYTIC OXIDATION OF ANTHRACENE. ALPHONS O. JAEGER, Crafton, Pa., assignor to The Selden Company, Pittsburgh, Pa., a Corporation of Delaware. Original application filed Aug. 8, 1927, Serial No. 211,638. Divided and this application filed Mar. 29, 1928. Serial No. 265,819. 18 Claims. (Cl. 260—57.)

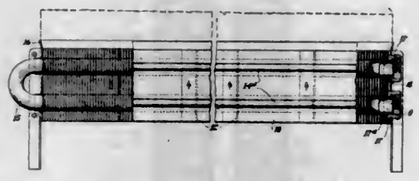
1. A method of oxidising anthracene to anthraquinone, which comprises vaporizing anthracene and causing the vapors to react with an oxidising gas in the presence of a contact mass containing at least one non-silicious base exchange body.

1,786,951. METHOD OF OPERATING CARBURIZING APPARATUS. RICHARD KAIER, Cranford, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Original application filed Oct. 3, 1927, Serial No. 223,544. Divided and this application filed Aug. 18, 1928. Serial No. 300,565. 2 Claims. (Cl. 263—1.)



1. Method of operating carburizing apparatus comprising, packing the work-pieces and fresh carburizing compound in a cold dummy box of a size to nest with a work-box, removing a hot work-box from the furnace with the carburized work therein, dumping the hot work-box, nesting the hot empty work-box and packed dummy box, relatively separating said boxes leaving the packed contents of the dummy box, undisturbed in the work-box, and restoring the hot work-box to the furnace.

1,786,952. RADIATOR. JOHN KARMAZIN, Detroit, Mich. Filed Aug. 25, 1927. Serial No. 215,283. 18 Claims. (Cl. 257—136.)

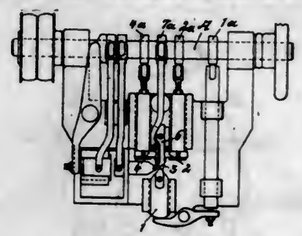


6. A room heating radiator of the class described, comprising a plurality of superposed fin elements having tubular projections in parallel spaced relation extending transversely from one side thereof, the tubular projections on one element being nested within the juxtaposed element to form a plurality of continuous tubes, and yokes connecting the ends of said tubes to form a continuous conduit, and means for connecting the ends of said conduit into the fluid containing system, said elements extending in a horizontal position and of large enough capacity to heat the room.

1,786,953. MACHINE FOR THE PRODUCTION OF MESH FABRIC AND CHAINS. KARL KINDL, Grafenhausen, near Neuenburg, Germany, assignor to Ernst Dideon Bek, Pforzheim, Germany. Filed June 1, 1927, Serial No. 195,633, and in Germany June 2, 1926. Renewed June 17, 1930. 5 Claims. (Cl. 140—3.)

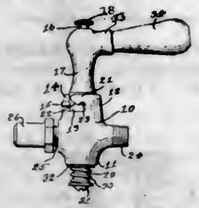
1. In the production of ring mesh fabric and chains in machines of the type in which rows of links are produced at a time, the method involving the steps of producing open links on a separate link forming device collecting and arranging said links as they are formed in co-incident relation on a temporary support, removing said support,

together with the open links thereon, from the said device, into association with a magazine support in the mesh-fabric or chain making machine and feeding the



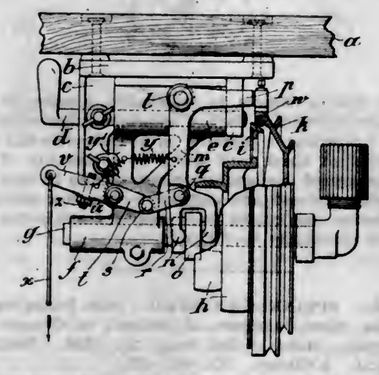
links from said temporary support to the magazine support in said machine wherein they are operated on to form the mesh fabric.

1,786,954. GAS-VALVE LOCK. ARTHUR E. KRAMER and JOHN WHITE PLATT, Waterville, Conn. Filed Mar. 15, 1929. Serial No. 347,239. 6 Claims. (Cl. 251—164.)



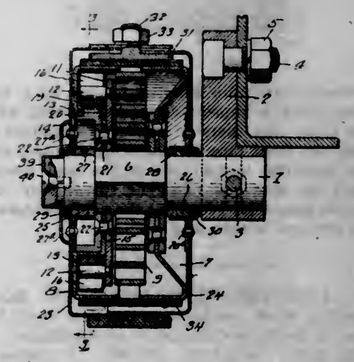
1. In a gas valve cock, a casing, a valve plug fitting within said casing, a transverse handle secured to said plug, a depressible plunger slidably mounted within said plug and carrying a laterally extending locking pin near its lower end, said casing having an open slot in its upper edge for detachably interlocking with said pin when the valve is closed, a spring pressing upwardly upon said plunger to cause said pin to snap into said slot automatically during the closing of said valve, said plunger having a manipulating knob extending above the top of said plug, said locking slot having an enlarged seat and an inclined wedge-shaped section to depress said pin during the closing of the valve whereby the moving of said handle will cause said pin automatically to pass over said wedge section and to snap into said seat.

1,786,955. FRICTION-CLUTCH-DRIVING MECHANISM. KARL MAIER, Stuttgart, Germany, assignor to Union Special Maschinenfabrik G. m. b. H., Stuttgart, Germany. Filed Sept. 2, 1927, Serial No. 217,222, and in Germany Sept. 11, 1926. 1 Claim. (Cl. 192—17.)



A friction clutch driving mechanism including in combination an element to be driven, a driving member movable into frictional engagement therewith, an engaging lever having connection with said driving member for shifting the same into and out of engagement with the driven member, a brake carried by said engaging lever and adapted to engage the driven member when the driving member is released therefrom, a spring for moving said engaging lever so as to disengage the driving member from the driven member, a rocking lever, a link interposed between said rocking lever and said engaging lever, said link and rocking lever being movable into alignment when the driving member is in engagement with the driven member for holding said members in engagement, a stop for limiting the movement of said rocking lever when said link and lever are in alignment, a spring for moving said rocking lever to throw the link and lever out of alignment, and a manually operated device connected to said rocking lever for moving the same to bring the link and lever into alignment and the driving member into clutching engagement with said driven member.

1,786,956. SHOCK ABSORBER. BONNIE L. MALLORY, Cleveland Heights, Ohio, assignor to The Cleveland Shock Absorber Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 1, 1928. Serial No. 296,642. 20 Claims. (Cl. 267—10.)

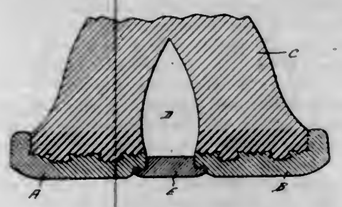


20. A shock absorber comprisisg a shaft adapted for connection with a vehicle axle and having a non-circular portion, a casing rotatably mounted on said shaft, a coil spring encircling said shaft and having one end connected therewith, a brake drum mounted on the non-circular portion of said shaft, a brake band extending about said brake drum and having one end connected with said casing and its opposite end connected with the other end of said coil spring through a circumferentially extending opening in said brake drum, a belt extending about said casing and having one end connected with said casing and its opposite end adapted for connection with a vehicle axle, the said brake drum consisting of a pair of sections, one of which is non-rotatably connected with the non-circular portion of said shaft and means connecting the other section with the non-circular portion of said shaft in such a manner as to permit a limited rotary movement of the same with respect to the shaft and means for adjusting the relative position of said shaft to vary the tension of said coil spring.

1,786,957. BRIDGING RING FOR CUSHION-TIRE BASES. HOMER L. MUELLER, Lakewood, Ohio, assignor, by mesne assignments, to The Cleveland Welding Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 19, 1925. Serial No. 70,017. 5 Claims. (Cl. 152—1.)

2. A transplit bridging ring for cushion tire base members, said ring having a greater initial circumference than

the base members with which the ring is to be used, the ends of the ring being bent radially inward and the abut-



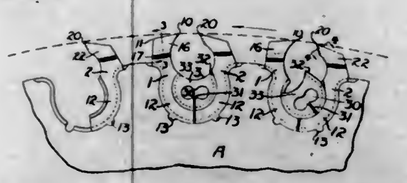
ting faces of the ends of said ring being complementarily beveled, said ends adapted to be forced outwardly whereby the ends of said ring interlock one with the other.

1,786,958. TRAFFIC-SIGNAL REFLECTOR. VICTOR L. OESTNAES, Westfield, N. J., assignor to American Gasaccumulator Company, Elizabeth, N. J., a Corporation of New Jersey. Filed June 11, 1927. Serial No. 198,072. 4 Claims. (Cl. 88—1.)



2. A reflector structure adapted for use as a highway signal comprising a supporting casing having an opening in the front face thereof, a reflector mounted within said casing, the front face thereof being exposed, adhesive cushioning material located within the said casing and surrounding the side end and rear surfaces of the said reflector, and means for retaining the said cushioning material and reflector within said casing.

1,786,959. INSERTED TOOTH FOR SAWS. ELIJAH C. ORR, Seattle, Wash., assignor to Orr Saw Tooth Grinder Co., Seattle, Wash., a Corporation of Washington. Filed Dec. 10, 1928. Serial No. 324,841. 3 Claims. (Cl. 143—141.)



1. A saw tooth having its peripheral edge centrally grooved lengthwise of its line of travel to form two parallel side-cutting edges, said cutting edges being inclined in a front to rear direction with their rear ends projecting farther than their forward ends to make a low angle with their direction of travel, whereby they produce a draw cut which smoothly severs the fibers at the side edges of the cut, said cutting edges having an overhang projecting rearwardly of the general axis of the tooth, and a raker tooth immediately succeeding said tooth and overhanging forwardly the gullet formed between the first mentioned tooth and the raker tooth.

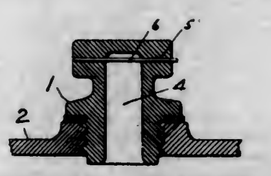
1,786,960. ALL-WEATHER DOUBLE-SERVICE WRAP. MABLE B. PARADISE, Atchison, Kans. Filed Sept. 30, 1927, Serial No. 222,999. Renewed May 26, 1930. 2 Claims. (Cl. 2—88.)

1. As a new article of manufacture, a double service wrap, comprising a single piece body provided at its upper corners with integral waist tabs, sets of leg fastening devices within the marginal edges of and on said body a considerable distance from its side edges and at its lower



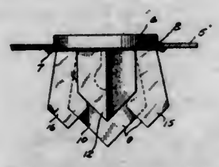
edge, and each set of leg fastening devices adapted to secure a portion of said body bag-like around a leg with the foot projecting below and free of said body, substantially as shown and described.

1,786,961. VENT FOR STORAGE BATTERIES. GEORGE E. PETROSKY, Philadelphia, Pa. Filed Apr. 30, 1928. Serial No. 273,842. 2 Claims. (Cl. 136—177.)



1. Venting means for a storage battery cell in a charged and dumped condition having a passage for the escape of gases from the cell under operating conditions, a removable pliable member sealing said passage, and a fine wire inserted between contiguous surfaces of the passage and the pliable member to provide a minute vent from the interior to the exterior of the cell.

1,786,962. LIGHTING FIXTURE. LINDSLEY SCHERMERHORN, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company, a Corporation of New Jersey. Filed Feb. 15, 1929. Serial No. 340,133. 13 Claims. (Cl. 240—7.1.)

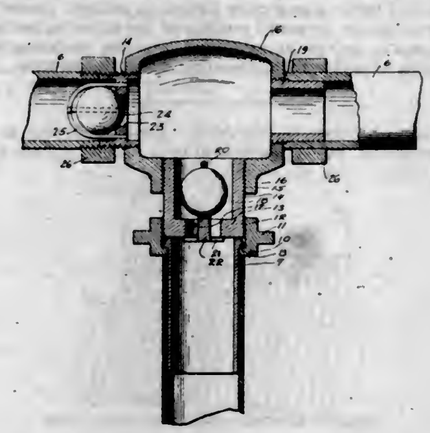


2. In lighting fixtures, in combination, a source of light, and light-distributing means associated therewith, said means comprising a plurality of spaced plate-like members arranged about said source in a plurality of relatively staggered overlapping groups, certain of said members being disposed and adapted to function principally by reflection and others being disposed and adapted to function principally by diffusion.

1,786,963. SPRINKLER SYSTEM. PAUL SCHOENBERGER, Belton, Mont., assignor of one-half to Chester Yale, Whitefish, Mont. Filed Sept. 22, 1926. Serial No. 137,124. 3 Claims. (Cl. 137—78.)

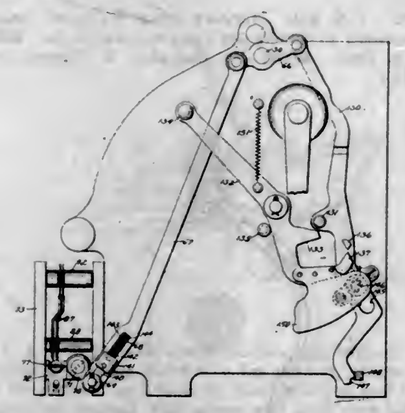
1. In a sprinker system for fighting forest fires, in combination, a main line adapted to be connected with a

source of water under pressure, and comprising a plurality of line sections and valve bonnets intermediate said sections and coupled therewith, each bonnet being provided with extensions, a valve seat arranged in one extension, a ball valve adapted to coact with said valve seat, the main line sections being connected to other



extensions of each bonnet, branch lines connected to said first extensions, and means to open a branch line to the main line comprising a spider carried at the end of the branch line, said spider having a projection adapted to pass into said extension operative to unseat the ball valve.

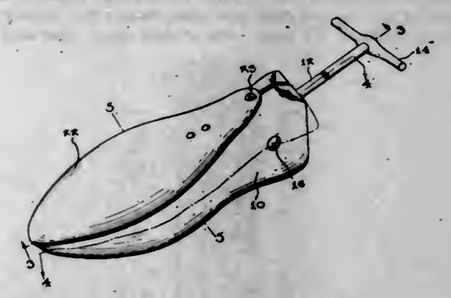
1,786,964. CASH REGISTER. BERNIS M. SHIPLEY, Dayton, Ohio, assignor, by mesne assignments to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Original application filed Jan. 16, 1924, Serial No. 686,564. Divided and this application filed June 18, 1925. Serial No. 37,951. 17 Claims. (Cl. 235—130.)



1. In a machine of the class described, a release shaft, a lock shaft, and a flexible connection between said shafts for rendering the lock shaft effective to prevent a machine release movement of said release shaft while permitting movement thereof in an opposite direction.

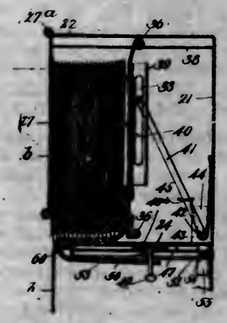
1,786,965. SHOE STRETCHER. JAMES SMART, Orlando, Fla. Filed Oct. 12, 1929. Serial No. 399,292. 2 Claims. (Cl. 12—128.5.)

1. A shoe stretcher comprising a body consisting of pivotally connected side elements, a spreader wedge enclosed by the same, a nut seated jointly in said elements, a wedge actuating screw threadingly engaged with the nut and having a swivel connection with the wedge, and



a spreader plate spanning the two side members of the body, the wedge being provided with an adjustable member having a slide bearing with the under surface of said stretcher plate.

1,786,966. TOWEL CABINET. CHARLES W. THOMPSON, Wollaston, Mass., assignor to Harvey C. Wheeler, Boston, Mass. Filed July 27, 1928. Serial No. 295,639. 5 Claims. (Cl. 312—37.)



1. A towel cabinet comprising a shelf dividing the cabinet into upper and lower chambers, a door for the upper chamber, a follower, a presser member in back of said follower, and spring actuated means to urge said presser member forward slidably mounted in said follower and located in said upper chamber.

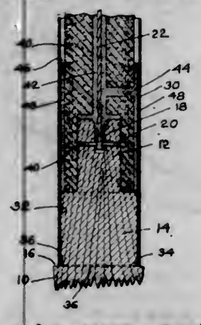
1,786,967. PROCESS OF EXTRACTING PYRETHRUM. WILLIAM J. TREVILLIAN, Freeport, Ill., assignor to The W. T. Rawleigh Company, Freeport, Ill., a Corporation of Illinois. Filed Apr. 14, 1929. Serial No. 352,616. 2 Claims. (Cl. 167—24.)

1. The process of obtaining pyrethrum from pyrethrum flowers by an extraction process which comprises subjecting the pyrethrum flowers to a petroleum distillate solvent to extract the active principles and drawing off the active principles and solvent and forming a marc, and thereafter expelling the residual solvent and active principles in the resultant marc by high pressure and a twisting motion.

1,786,968. COMPOSITE PILE. MAXWELL M. UPSON, Englewood, N. J., assignor to Raymond Concrete Pile Company, New York, N. Y., a Corporation of New Jersey. Filed May 19, 1928. Serial No. 278,942. 5 Claims. (Cl. 61—53.)

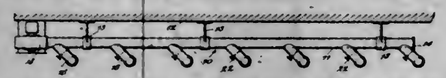
1. In a composite pile, in combination, a lower section having a tenon on its upper end, a hollow upper section

having a lower end adapted to surround said tenon, a sleeve closely surrounding said lower section below said tenon and extending upwardly around said upper section but spaced therefrom to form an annular space between said upper section and said shell, means for sealing the space between the upper end of said sleeve and said up-



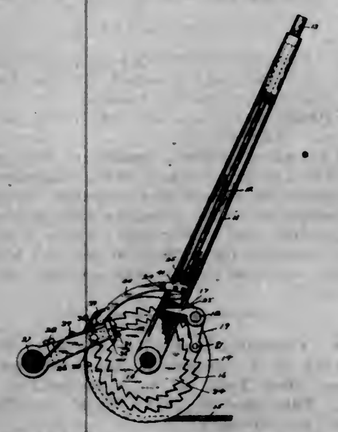
per pile section, and a passage connecting said annular space with the hollow interior of said upper section whereby when said hollow interior is filled with freshly mixed concrete the concrete will flow through said passage into said annular space to form therein a concrete shell to reinforce the joint between said pile sections.

1,786,969. HAIR-DRYING APPARATUS. CORNEAL VAN DER HEUEL, Richmond Hill, N. Y. Filed Nov. 30, 1929. Serial No. 410,732. 1 Claim. (Cl. 34—26.)



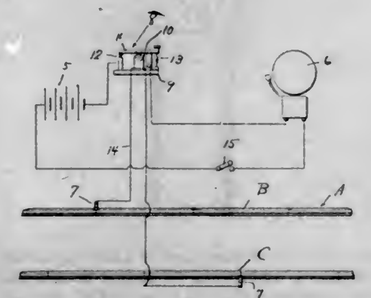
A hair drying apparatus comprising a main pipe open at one end and closed at is opposite end, an electric hot air blower attached to the open end of said pipe, branch pipes extending at an acute angle from said main pipe and depending downwardly therefrom, means whereby a proportionate amount of air passing through said main pipe may be diverted into the respective branch pipes, said means including various sized openings between the main pipe and the respective branch pipes, said openings decreasing in size towards the outer closed end of the main pipe, and deflector walls extending within said main pipe adjacent certain of said openings.

1,786,970. BRAKE MECHANISM. FRANK O. VAUGHN Ponghkeepsie, N. Y. Filed Jan. 23, 1929. Serial No. 334,392. 3 Claims. (Cl. 74—54.)



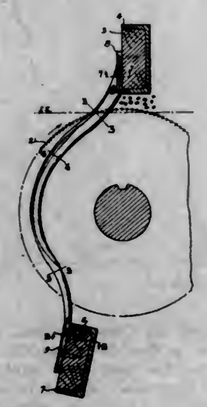
1. A brake mechanism comprising in combination, a cable winding means and a hand lever adapted to be reciprocated to rotate said winding means, a cable tightening ratchet secured to said cable winding means, a retaining ratchet also secured thereto, means carried by said hand lever for rotating said cable tightening ratchet comprising an arm pivoted to said hand lever, a roller mounted in said arm and adapted to be normally in engagement with the teeth of said cable tightening ratchet, means for preventing the backward rotation of the retaining ratchet, and means carried by said hand lever for rendering one or both of said ratchet operating means inoperative.

1,786,971. TESTING OUTFIT. CHARLES J. VILLELLA, Emporium, Pa. Filed July 9, 1930. Serial No. 466,836. 1 Claim. (Cl. 246—124.)



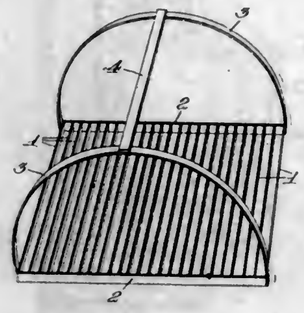
A portable workman's testing outfit for railroad signal and gate blocks comprising an annunciator circuit including an alarm, a source of current in the annunciator circuit, a relay including a pair of contacts normally spaced apart and serving to maintain the circuit broken, said relay including a coil, a lead extending from each end of the coil, and a connector on the other end of each lead, for detachable connection to a rail of a trackway.

1,786,972. GIN RIB. JEFFREY JOHN WALLACE, Amite, La., assignor to Gullett Gin Company, Amite, La. Filed Oct. 9, 1929. Serial No. 398,492. 2 Claims. (Cl. 19—62.)



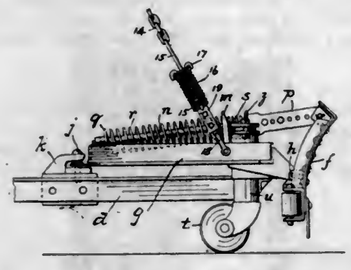
1. A gin rib comprising a body having flat plates at the opposite ends thereof adapted to be attached to the rib rails of the cotton gin and having an arcuate portion between said plates tapering in opposite directions from a point between the center of said portion and one of said plates, the opposite edges of the back of said body being provided with flanges which diminish in width in opposite directions from said point, the said body extending partly over the flat plate adjacent the wide end of the body, and said flanges terminating a short distance from the last named plate.

1,786,973. METHOD OF AND APPARATUS FOR SELECTING FIBER. ROBERT A. WEBBER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed July 18, 1927. Serial No. 206,477. 24 Claims. (Cl. 92—20.)



1. A method which comprises causing relative motion between a comparatively dilute cellulose pulp suspension and edge-presenting members so as to cause a folding of the long fibers over said members, and removing and recovering such long fibers from said members.

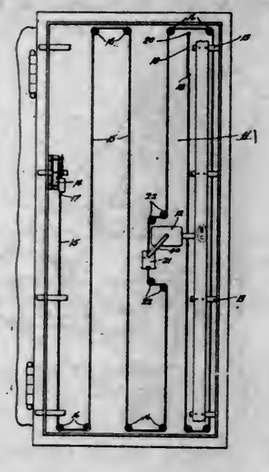
1,786,974. SNOWPLOW. GEORGE C. ABEE, Kennett Square, Pa., assignor to American Road Machinery Company, Inc., Kennett Square, Pa., a Corporation of Delaware. Filed July 16, 1926. Serial No. 122,753. 7 Claims. (Cl. 37—42.)



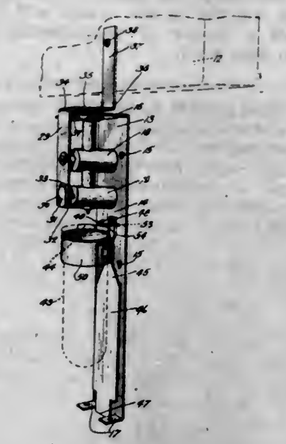
3. A snow plow structure comprising a support, a plow assembly pivotally secured to the support, means carried by the support for lifting the plow assembly, and a spring connected between said means and said plow assembly, said spring being normally under an initial stress about equal to the component of the weight of the plow assembly to be lifted.

1,786,975. VAULT RELEASE. H MILLER ANDERSON, Chicago, Ill., assignor, by mesne assignments, to The Lake Erie Chemical Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 7, 1928. Serial No. 317,810. 7 Claims. (Cl. 109—3.)

1. In a vault lock actuating mechanism, the combination with a lock, of wiring maintained normally under tension and adapted on release thereof to permit operation of said lock, said wiring including portions having looped ends, a connector engaging said looped ends for maintaining the continuity of the wiring, and means responsive to abnormal disturbance of the vault for displacing said connector.

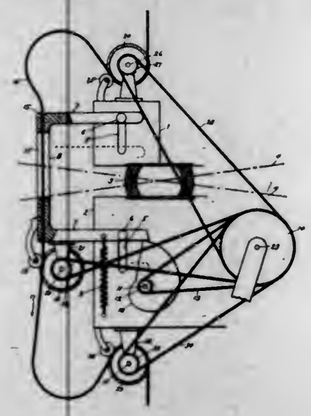


1,786,976. GAS-DISCHARGING DEVICE FOR SAFES. H MILLER ANDERSON, Chicago, Ill., assignor, by mesne assignments, to The Lake Erie Chemical Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 7, 1928. Serial No. 317,811. 3 Claims. (Cl. 109—6.)



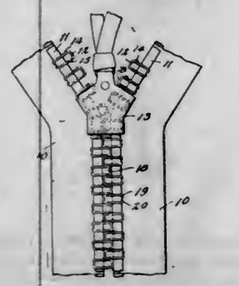
1. The combination with a vault combination box, of a supporting bracket mounted adjacent thereto, a poison gas bomb carried by said supporting bracket, a firing mechanism for said bomb also carried by said supporting bracket, said firing mechanism comprising, a pair of pin guiding rod members, a firing pin guided thereby, said firing pin being provided with an annular groove disposed within one of said rod members, a trigger entering the head of said rod member and engaging said firing pin within said groove, a spring adapted when released to project said firing pin into bomb discharging engagement with said bomb, a trigger operating bar pivoted to the other of said pin guiding members and engaging said trigger, said trigger operating bar being secured to said combination box, whereby to release said trigger on dislocation of said combination box.

1,786,977. MOTION-PICTURE APPARATUS. NIKOLAI D. ANOSTCHENKO, Moscow, Union of Socialist Soviet Republics. Filed May 6, 1929, Serial No. 360,923, and in the Union of Socialist Soviet Republics Apr. 28, 1928. 2 Claims. (Cl. 88—18.)



1. In a motion picture apparatus, the combination with a projecting camera, of a frame slidably supported in said camera, a wheel supported on said frame and adapted to move a film through said frame, means to reciprocate said frame with said film and with said wheel, wheels on said camera above and below said frame for said film, means to drive all of said wheels at a uniform rate of speed, said film forming free loops above and below said frame between said wheels, the speed of the operating movement of said frame being equal and opposite to the speed of said film, and a stationary lens adapted to direct a beam of light against said film in said frame, said frame being provided with a window of approximately double the width of said light beam.

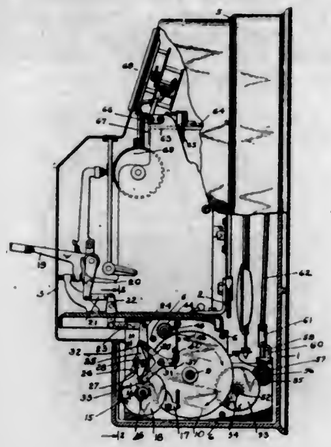
1,786,978. SEPARABLE FASTENER. PETER A. ARONSON, Devon, Conn., assignor to Hookless Fastener Company, Meadville, Pa., a Corporation of Pennsylvania. Original application filed June 14, 1923, Serial No. 645,223, and in Great Britain June 6, 1924. Divided and this application filed May 19, 1928, Serial No. 279,152. 12 Claims. (Cl. 24—205.)



3. A locking member for a separable fastener comprising means for securing same to a tape, a semispherical projection on one side of said member, and a cylindrical socket in the opposite side of said member.

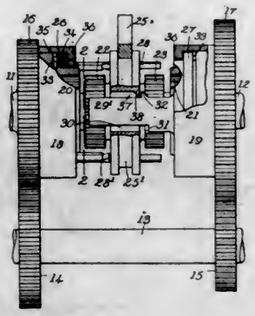
1,786,979. TIME RECORDER. JAMES W. BRYCE, Bloomfield, N. J., assignor to International Time Recording Company of New York, Endicott, N. Y., a Corporation of New York. Filed June 30, 1926. Serial No. 119,584. 10 Claims. (Cl. 185—40.)

1. In a recording apparatus, the combination comprising a manipulative member, a spring motor, means for storing energy in said spring motor upon actuation of said manipulative member, said means including a ratchet and ratchet wheel, means for positioning said ratchet



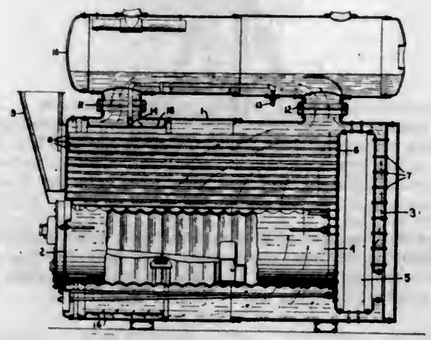
to engage or not engage said ratchet wheel, and means controlled by said spring motor for controlling the operation of said last named means.

1,786,980. CHANGE-GEAR MECHANISM. WILLIAM THOMAS CARLING, Guildford, England. Filed Oct. 3, 1929, Serial No. 397,078, and in Great Britain Oct. 3, 1928. 8 Claims. (Cl. 74—59.)



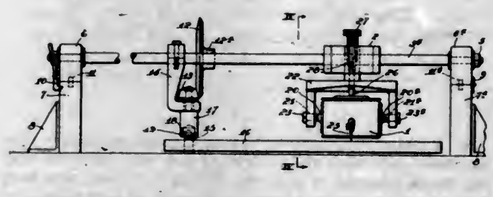
1. In a change gear mechanism, a selectively engageable pair of members transmitting rotary power in both directions of rotation, means for engaging the selected pair by sliding movement of one member of said selected pair, and a locking device for preventing engagement of said selected pair until the speeds of their engaging surfaces are approximately equal, said locking device comprising two successively acting stops for controlling the sliding movement of said one member of said selected pair, the first of said stops permitting an initial movement of said one member towards engagement following a reversal of the previous speed-relation of said selected pair, and the second of said stops preventing further movement of said one member towards engagement until the speed relation of said selected pair has again reversed.

1,786,981. STEAM BOILER. FRED W. CHIPMAN, Framingham, Mass. Filed June 15, 1929. Serial No. 371,285. 2 Claims. (Cl. 122—149.)



1. An internally fired boiler comprising a main cylindrical shell having front and rear tube sheets, fire tubes connecting said tube sheets, a fire box shell within the main shell extending between said tube sheets, a combustion chamber communicating with the rear end of said fire box shell and said fire tubes, a smoke box communicating with the tubes at the front end of the boiler, a horizontal water and steam drum above the boiler, water legs connecting the main shell and the drum at points near the front and rear thereof, a partition wall at the front of the boiler spaced a short distance from said main cylindrical shell and extending part way of the length of the shell to form a circulating conduit extending from the front water leg downwardly along both sides of the main shell and opening at the bottom, a feed water pipe having leaders extending in opposite directions from its end into said conduit to project the feed water into the said conduit in directions to accelerate the flow of water downwardly therein.

1,786,982. AEROPLANE PHONOGRAPH REPRODUCER. JAMES M. COBURN, Kansas City, Mo., assignor to Plane-Speaker Corporation, New York, N. Y., a Corporation of Delaware. Filed Sept. 7, 1927. Serial No. 218,012. 4 Claims. (Cl. 179—100.4.)



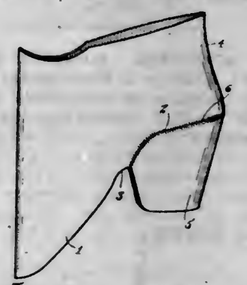
1. A reproducing mechanism for use with an aeroplane audio broadcasting apparatus adapted to deliver thereto only those impulses which it is desired to broadcast and whose operation is not affected by movements of the aeroplane, comprising a supporting frame, a power-actuated screw mounted therein, phonograph reproducing mechanism and reproducer-supporting means coacting with said frame to uniformly move the reproducer over a record while maintaining constant needle pressure irrespective of movements of the aeroplane.

1,786,983. MANUFACTURE OF FOOTWEAR. EDMUND J. DEMPSEY and EARLE H. COSTELLOW, Providence, R. I., assignors to Phillips-Baker Rubber Company, Providence, R. I., a Corporation of Rhode Island. Filed May 11, 1929. Serial No. 362,389. 6 Claims. (Cl. 12—142.)



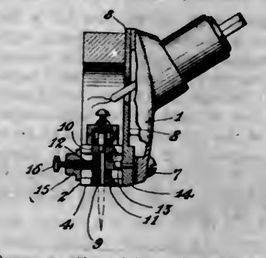
1. A shoe of vulcanized material comprising an upper having its vamp, folded pockets and quarter in one integral piece, with its extremities joined together along a single vertical seam.

1,786,984. MANUFACTURE OF FOOTWEAR. EDMUND J. DEMPSEY and EARLE H. COSTELLOW, Providence, R. I., assignors to Phillips-Baker Rubber Company, Providence, R. I., a Corporation of Rhode Island. Filed May 11, 1929. Serial No. 362,390. 2 Claims. (Cl. 36—5.)



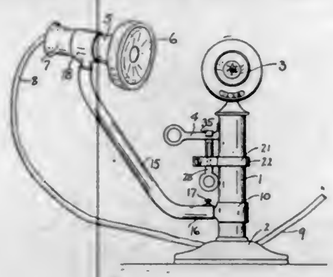
1. The method of making a shoe of vulcanizable material which comprises cutting a quarter from stock having finished surfaces on both sides and forming the lower edge of the quarter along a line extending from the shank upward toward the back edge; cutting a reinforcing piece from stock having a finished surface on one side and a rubber impregnated surface on the other side; joining said reinforcing piece to the upper along the said line, with the impregnated surface outward; and completing the manufacture of the shoe including applying the finishing foxing directly to the said impregnated surface.

1,786,985. MAGNETIC PICKUP. ORVILLE M. DUNNING, Stamford, Conn., assignor to Acoustic Products Company, a Corporation of Delaware. Filed July 14, 1928. Serial No. 292,766. 4 Claims. (Cl. 179—100.41.)



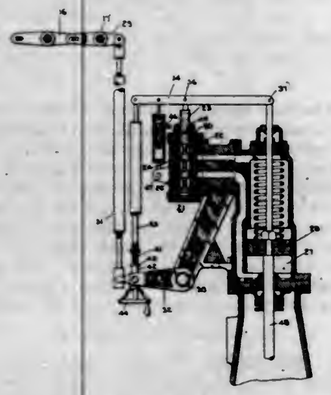
2. An electromagnetic pickup including a four pole magnet, an armature having a pair of reluctance varying members disposed in reluctance varying position between the poles and a low impedance circuit comprising a few turns of wire directly wound upon the armature intermediate the reluctance varying members thereof, and means to pivot the armature intermediate the pole pieces.

1,786,986. TELEPHONE ATTACHMENT. JOHN R. ELLIS, Houston, Tex. Filed Jan. 6, 1930. Serial No. 418,705. 6 Claims. (Cl. 179—153.)



1. A telephone attachment including an arm secured to the telephone body and adapted to support the receiver in adjusted position spaced from said body, a latch to engage and hold the telephone receiver hook depressed, an arm on said telephone body, and a handle on said latch whereby said latch may be released from said arm.

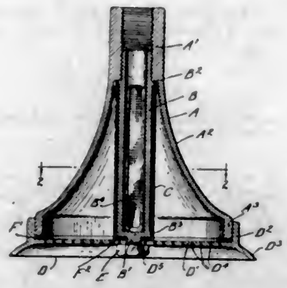
1,786,987. GOVERNOR. WARREN B. FLANDERS, Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 22, 1927. Serial No. 162,846. 12 Claims. (Cl. 137—158.)



12. In a governing mechanism for a fluid motor, the combination of a plurality of admission valves of different capacities, means responsive to an operating condition of the prime mover for regulating said valves between the limits of their travels, and means for adjusting the time of operation of one of said valves with respect to the time of operation of the regulating means to an extent enabling a change in sequence of opening and closing of said one and one other of said valves, said means being operative during the operation of the governing mechanism without disassembling the same.

1,786,988. SHOWER HEAD. JAMES FRASER, Edge Moor, Del., assignor to Speakman Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 22, 1926. Serial No. 137,060. 4 Claims. (Cl. 299—141.)

1. A shower head comprising a shell portion surrounding a chamber open at one side and a laterally ported supply pipe portion extending from said shell into said chamber toward its open side and having a bolt extension on the closed free end thereof, a perforated wall closing

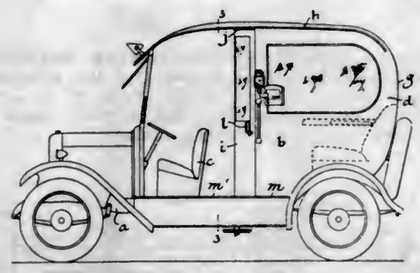


the otherwise open side of said chamber, a relatively rigid cylindrical strainer surrounding said pipe portion, said bolt extension extending through the perforated plate and an external clamping nut on said bolt extension.

1,786,989. PROCESS FOR ACETYLATION OF NITROCELLULOSE. HENRY A. GARDNER and CALVIN A. KNAUSS, Washington, D. C., assignors to Henry A. Gardner Laboratory, Inc., Washington, D. C., a Corporation of the District of Columbia. Filed Jan. 12, 1928. Serial No. 246,371. 7 Claims. (Cl. 260—101.)

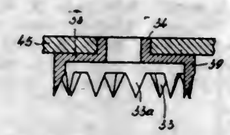
4. Process which comprises adding ethylene dichloride to a solution of acetylated nitro-cellulose in a solvent comprising acetic acid, and separating the resulting precipitated acetylated nitro-cellulose.

1,786,990. MOTOR-VEHICLE BODY. WILLIAM GOWAN, Folkestone, England, assignor to The Cape Body Limited, London, England, a British Company. Filed Sept. 12, 1928, Serial No. 305,356, and in Great Britain Sept. 26, 1927. 5 Claims. (Cl. 296—47.)



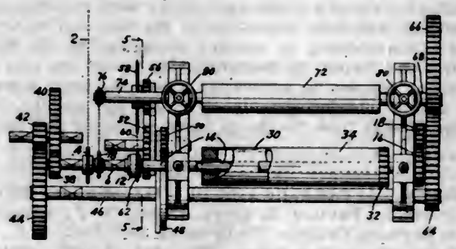
1. A motor vehicle body having a closed passenger compartment, provided at its forward end with laterally sliding doors, adapted to slide one behind the other, said body having a floor portion extending forward of said doors, and substantially level with the floor portion of the passenger compartment, and a driver's seat located on said forwardly extending floor portion out of the way of the apertures provided by the opening of said doors to leave an unobstructed passageway to either side of said vehicle, and said doors being of sufficient height above said floor portions to enable a passenger to step upon the said forwardly extending floor portion at either side of the vehicle and to enter or leave the passenger compartment through either door opening.

1,786,991. WOODEN CONSTRUCTION. WALTHER GREIM, Berlin, Germany, assignor to Siemens Bauunion Gesellschaft mit beschränkter Haftung, Kommanditgesellschaft, Berlin-Siemensstadt, Germany, a Corporation of Germany. Original application filed Oct. 18, 1927, Serial No. 226,990, and in Germany June 11, 1926. Divided and this application filed Aug. 20, 1928. Serial No. 300,833. 6 Claims. (Cl. 20—92.)



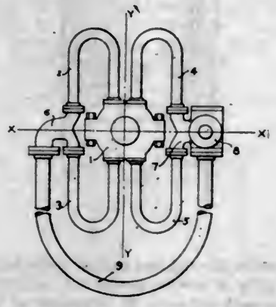
3. A structural junction element for wooden structures, comprising a stress transmitting disc having a central bolt hole and being recessable into the wood and having axially directed pyramidally shaped prongs arranged on its periphery, the pyramid points of said prongs being alternately offset in radial direction with respect to the disc center, to form two circles of points with two disc radii of different lengths, the axial directions of the interstitial spaces between adjacent prongs being located on lines traversing the disc between its center and its periphery.

1,786,992. MEASURING AND CUTTING DEVICE. FRED G. GRONEMEYER, St. Louis, Mo., assignor to The Barber Asphalt Company, Philadelphia, Pa., a Corporation of West Virginia. Filed May 4, 1928. Serial No. 275,125. 4 Claims. (Cl. 164—68.)



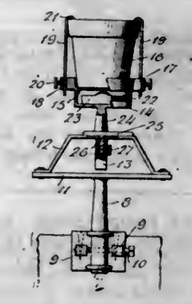
1. A machine for severing sheet material into lengths comprising means for feeding said sheet material, means for cutting said material during the feeding movement, and means for interrupting the normal feed of said material, said feeding means including an epicyclic gear train having a normally stationary member, and said interrupting means acting to move said stationary member.

1,786,993. ELASTIC-FLUID TURBINE. HENRY LEWIS GUY, Hale, England, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 26, 1928. Serial No. 315,167, and in Great Britain Dec. 28, 1927. 5 Claims. (Cl. 137—78.)



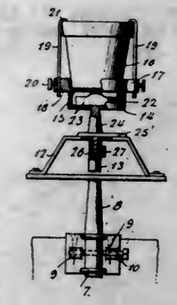
1. The combination with an elastic fluid turbine, of a distribution box or receiver disposed laterally of the turbine axis and connected to a source of motive fluid supply, and a plurality of pipes connecting the turbine casing with the distribution box, said pipes being similarly shaped and symmetrically arranged on opposite sides of a plane containing the turbine axis for the purpose of enabling the external forces exerted by said piping upon the turbine casing to substantially counterbalance one another.

1,786,994. FLOWERPOT STAND. JUDA HALBERSTADTER, Elizabeth, N. J. Filed June 22, 1927. Serial No. 200,547. 3 Claims. (Cl. 248—20.)



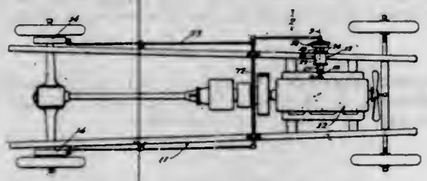
3. A flower pot stand including a holder, a bracket for supporting said holder including a plate adapted to be secured to a window sill or other support and having a bearing for receiving a supporting arm for said holder, bosses formed on said plate on opposite sides of said bearing, and a bolt extending through said bosses and said bearing and engageable with the arm in the latter to lock said arm in said bearing.

1,786,995. FLOWERPOT HOLDER AND BRACKET THEREFOR. JUDA HALBERSTADTER, Elizabeth, N. J. Original application filed June 22, 1927, Serial No. 200,547. Divided and this application filed July 30, 1928. Serial No. 296,251. 1 Claim. (Cl. 47—39.)



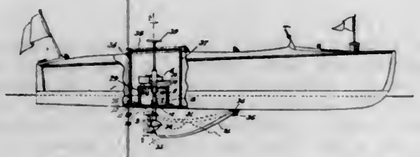
A flower pot stand including a holder, the body of which forms a receptacle and which is provided intermediate its top and bottom with an inwardly extending flange upon which the lower end of a flower pot is adapted to be supported, said body further having an opening extending completely therethrough and below said flange into which a drip pan may be inserted, opposed bosses on said body, clamping members secured in said bosses and having hook portions engageable over the rim of said pot to retain the same in position in the holder, and a single supporting standard depending centrally from the bottom of said body and capable of attachment to a support.

1,786,996. TORQUE BRAKE. ARTHUR W. HARRISON, Los Angeles, Calif., assignor, by mesne assignments, of one-half to Kay Brunner Steel Products, Inc., a Corporation. Filed Dec. 19, 1928. Serial No. 327,083. 9 Claims. (Cl. 188—162.)



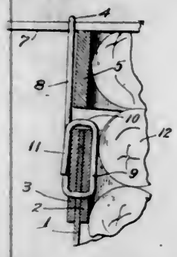
1. An electric brake comprising in combination a generator having rotatably mounted fields and rotor, means to rotate the rotor, a load in circuit with the rotor, means to energize the fields, the reaction of the rotor and the fields causing a rotation of the fields, a reduction gear train operatively connected to the fields, and means at the end of the train to operate brakes.

1,786,997. MARINE PROPULSION. JAMES W. HARVEY, Falmouth Foreside, Me. Filed May 16, 1930. Serial No. 452,942. 17 Claims. (Cl. 115—41.)



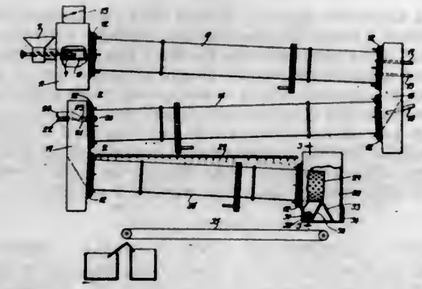
1. A boat having an opening in the bottom, a reinforcing casing extending upwardly through said opening and having a flange beneath the edge of the opening, means for clamping the flange to the bottom of the boat and a power unit adapted to be inserted into said casing including a vertical shaft housing and a bottom bearing plate adapted to substantially close the bottom of the casing said power unit and bottom plate being removable from said casing.

1,786,998. BASKET. ERNEST V. HAWKINS, Mitchell, Ind. Filed Mar. 18, 1929. Serial No. 347,759. 4 Claims. (Cl. 217—125.)



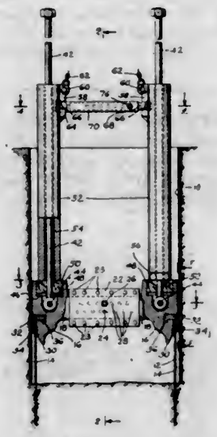
4. A shipping basket provided with an inverted substantially U-shaped wire handle rising above the top edge of the basket, the leg members of the handle extending downwardly along the outer side of the basket body and free to be bent outwardly therefrom, and said leg members extending inwardly through the side wall of the basket body and having portions of the leg members bent to lie alongside of the interior wall of the basket body, and means lying against the exterior of the basket body and connected with the leg portions on the interior of the basket for securing said inner leg portions against the inner wall of the basket and preventing them from becoming displaced and projected away from the basket wall and into the interior of the basket to the injury of the contents thereof as the result of the manipulations to which the handle is subject in the handling of the basket by the use of the handle.

1,786,999. REDUCTION OF METALS FROM ORES. JOHN WILLIAM HORNSEY, New York, N. Y., assignor to Granular Iron Company, a Corporation of Michigan. Original application filed Nov. 25, 1925, Serial No. 71,442. Divided and this application filed Sept. 27, 1928. Serial No. 308,798. 2 Claims. (Cl. 75—14.)



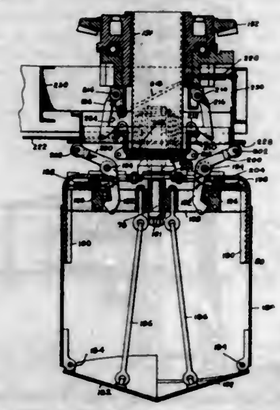
1. The process of solid reducing ores which includes feeding the ore to a preheating cylinder while maintaining a slightly oxidizing atmosphere in the feed end thereof and a non-oxidizing or reducing atmosphere at the discharge end thereof, in discharging the heated ore into a reducing cylinder, in introducing a reducing agent thereto, and in introducing a stream of fuel and air, the air being isolated from the charge being reduced by said fuel.

1,787,000. APPARATUS FOR DRIVING HOLLOW CYLINDERS. FRANCIS H. HUNT, Leonia, N. J., assignor to Raymond Concrete Pile Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 11, 1927. Serial No. 182,761. 13 Claims. (Cl. 61—73.)



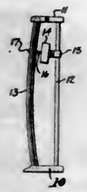
1. In device for driving hollow cylinders, in combination, a plurality of anvils, means for adjusting said anvils relatively to each other to fit cylinders of different diameters, and a hammer adapted to operate on each of said anvils.

1,787,001. EXCAVATING APPARATUS. FRANCIS H. HUNT, Los Angeles, Calif., and FREDERICK A. SCHROEDER, Rochelle Park, N. J., assignors to Raymond Concrete Pile Company, New York, N. Y., a Corporation of New Jersey. Original application filed Aug. 26, 1927, Serial No. 215,542. Divided and this application filed June 6, 1928. Serial No. 283,220. 12 Claims. (Cl. 255—67.)



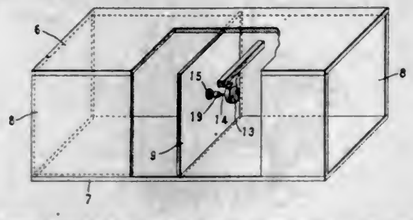
1. In a machine of the class described, in combination, a rotatable digging bucket having a discharge gate, a latching device for holding said gate closed, means for hoisting said bucket to a discharge position, and means operable automatically when the bucket approaches discharge position for releasing said latching device to permit said gate to open.

1,787,002. REENFORCED SOUNDING BOARD. MILLER REESE HUTCHISON, Llewelyn Park, West Orange, N. J., assignor, by mesne assignments, to Acoustic Products Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 15, 1927. Serial No. 175,456. 5 Claims. (Cl. 84—195.)



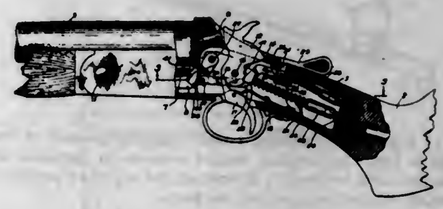
1. A sounding board including a tuned rod, means for impressing vibratory energy on said rod, and a web extending from the rod and receiving the vibratory energy from said rod.

1,787,003. SOUND-PROPAGATING DIAPHRAGM. MILLER REESE HUTCHISON, Llewelyn Park, West Orange, N. J., assignor to Premier Laboratory Company, a Corporation of Delaware. Filed May 2, 1928. Serial No. 274,527. 1 Claim. (Cl. 181—31.)



A sound propagating apparatus comprising a diaphragm, means for damping the vibrations of said diaphragm formed of a plurality of spaced fiber sheets comprising a chamber surrounding said diaphragm in such a manner as to subject the diaphragm to the retarding influence of the inertia of the atmospheric medium within said chamber.

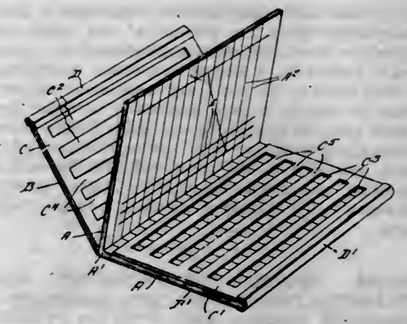
1,787,004. FIREARM. CHARLES J. JEFFERSON, Springfield, Mass., assignor to J. Stevens Arms Company, a Corporation of Massachusetts. Filed Feb. 11, 1930. Serial No. 427,481. 8 Claims. (Cl. 42—42.)



1. In a firearm, the combination with the frame, a barrel hinged to the frame on a horizontal axis, a hammer pivoted to the frame, and hammer-spring means bearing against the hammer, of locking means to lock the barrel in firing relation to the frame and confine the hammer spring on the hammer, said means including a lock-operating yoke within the frame extending rearwardly from adjacent the rear end of the barrel and passing close to the hammer-spring means at both sides thereof adjacent the bearing of the hammer-spring means on the hammer.

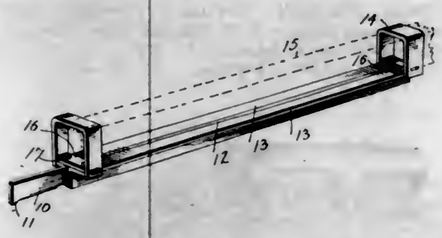
4. In a firearm, the combination with the frame, a barrel hinged to the frame on a horizontal axis, and a hammer pivoted within the frame, of a locking bolt hinged within the frame to lock the barrel in firing relation to the frame, an operating link therefor extending rearwardly from said bolt, a finger piece external of the frame connected to said link, and adjustable means cooperating with the locking bolt to limit the movement of the locking bolt in the locking direction.

1,787,005. BOOK WITH PAGE-RULING ATTACHMENT THEREFOR. PHILLIP H. KAUFMAN, Cleveland Heights, Ohio. Filed Dec. 14, 1927. Serial No. 239,880. 6 Claims. (Cl. 281—3.)



3. A stack of leaves having a foldable cover, and a slotted line ruler having an edge connected to an outer edge of said cover, the said line ruler being foldable onto the said leaves, thereby enabling the ruling of lines on one side of each of said leaves.

1,787,006. PUTLOG. THOMAS HAVELOCK KINGSTON, West Somerville, Mass., assignor to Builders' Patent Scaffolding Company, a Partnership composed of Frank G. Kingston, A. R. Kingston, C. C. Pimm, and Mabel G. Kitchen, West Somerville, Mass. Filed Mar. 5, 1929. Serial No. 344,503. 6 Claims. (Cl. 304—39.)



1. A putlog comprising a wall-engaging member of metal and a body comprising angles secured to opposite sides thereof with horizontal flanges at the top that provide extended staging-supporting surfaces.

1,787,007. VAULT-WALL-PROTECTING DEVICE. EUGENE C. KINNEAR, Evanston, Ill., assignor, by mesne assignments, to The Lake Erie Chemical Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 31, 1923. Serial No. 616,175. 5 Claims. (Cl. 109—6.)

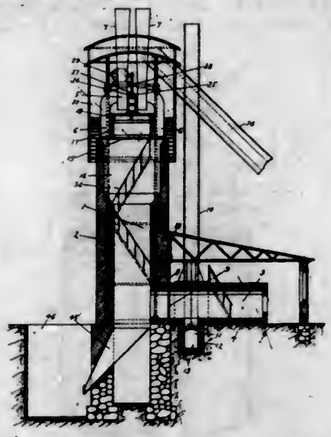


1. A vault protecting system, comprising a gas receptacle positioned on the interior of the vault, normally inoperative means for causing discharge of the contents of said receptacle, a flexible connection extending about the fixed walls of the vault, and devices operable by either release or pulling of said connection to cause operation of said gas discharging means, said devices comprising members of whiffle-tree form having one end held under spring tension and the other end held by said flexible connection, and means operable by pivotal movement of said members for causing operation of said gas discharging means.

1,787,008. PROCESS FOR INCREASING BASE-EXCHANGING PROPERTIES. OTTO LIEBKNECHT, Berlin-Grunewald, Germany, assignor to The Permutit Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 2, 1927, Serial No. 165,488, and in Germany Feb. 4, 1926. 3 Claims. (Cl. 23—112.)

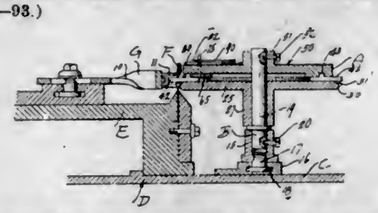
1. In the improvement in the base exchange power of glauconite the process which comprises heating glauconite with a solution of an alkali metal silicate under superatmospheric pressure until a substantial increase in base exchange power is attained.

1,787,009. SALT DRIER. MICHAIL J. LURIE and ANATOLY P. WOROSHILOW, Moscow, Union of Socialist Soviet Republics. Filed Dec. 19, 1929, Serial No. 415,236, and in Union of Socialist Soviet Republics Mar. 10, 1928. 1 Claim. (Cl. 34—34.)



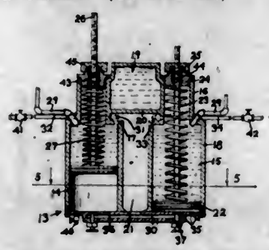
In a drier, the combination with a vertical chamber, of means to deliver hot gases into said chamber from the bottom, an enlarged portion on top of said chamber, a flat screen in said enlarged portion, fans above said screen, intake pipes extending into said enlarged portion on both sides of said screen, said fans being adapted to exhaust said hot gases from said chamber, a bin on top of said drier, a feeder between said bin and said screen, and means to control the admittance of the material to be dried from said bin to said feeder.

1,787,010. YARN-SINKING APPARATUS FOR KNITTING MACHINES. HARRY MCADAMS, Philadelphia, Pa. Filed Feb. 3, 1928. Serial No. 251,716. 7 Claims. (Cl. 66—93.)



1. In a wheel for introducing yarn upon knitting cylinder needles the combination of a supporting bed, means rotatably supporting the bed, sinkers slidably carried on the bed, gear teeth formed directly on the bed adjacent said sinkers, and a cam plate for projecting the sinkers from the bed.

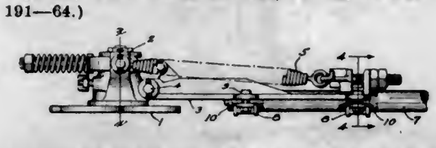
1,787,011. LUBRICATOR FILLER. BENITO MONTOYA, Los Angeles, Calif. Filed Jan. 5, 1929. Serial No. 330,517. 2 Claims. (Cl. 184—42.)



1. A lubricator container comprising in combination a body structure having a pair of lateral oil receptacles,

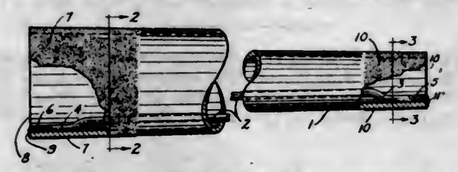
each having a reduced upper portion, a piston in each receptacle having a piston rod extending upwardly through the reduced section and through the top of the structure and each having indicia thereon, a central oil receptacle positioned between the two extensions, an air chamber below the central oil receptacle, a duct having valves leading from the air chamber to the lateral receptacles below the pistons, fillers for said receptacles, discharge connections from the lateral receptacles adapted to lead to lubricators, a filler plug and a discharge faucet for the central receptacle, and means to discharge air from the lateral receptacles below the pistons, the air connection from the cylinder to the receptacles comprising a base plate secured to the said structure and having a duct therein, ports in the base plate and controllable valve plugs for said ports, thereby forming valves.

1,787,012. TROLLEY-POLE BASE. EDGAR D. MOORE, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Sept. 16, 1929. Serial No. 392,767. 16 Claims. (Cl. 191—64.)



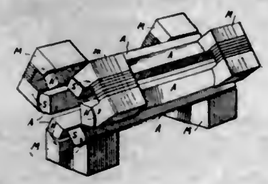
1. A trolley device comprising a stationary base member, a rotatable turret thereon, a pivotally mounted arm on the turret, springs biased to move the arm about its pivot, a trolley pole secured to the arm, means to secure the pole to the arm and a coating of non-ferrous metal on the arm and contacting with the pole.

1,787,013. TROLLEY POLE. EDGAR D. MOORE, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Mar. 6, 1930. Serial No. 433,676. 7 Claims. (Cl. 191—64.)



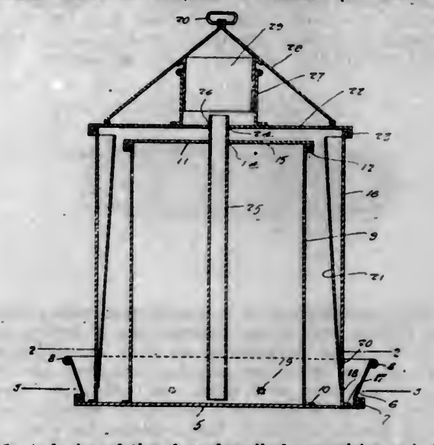
1. A trolley pole comprising a tubular member of ferrous metal, a conductor of copper within the member and extending from end to end of the member and having its ends welded to the inner surface of the member at its ends, a coating of copper applied to the outer surface of the ends of the member and extending back from the ends and extending across the end faces of the member and connected to the conductor.

1,787,014. MAGNETO-ELECTRIC MACHINE FOR THE GENERATION OF MONOPHASE CURRENT. EMILE MOREL, Domene, France. Filed Nov. 7, 1928, Serial No. 317,830, and in France and Germany Nov. 9, 1927. 7 Claims. (Cl. 171—252.)



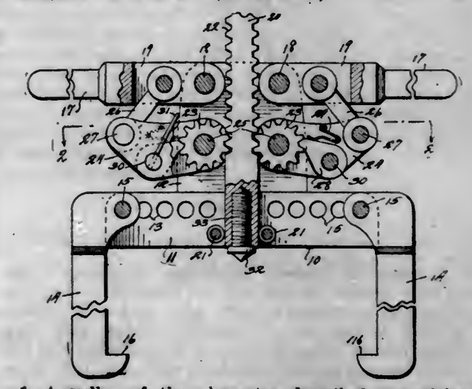
4. A magneto-electric machine comprising a rotor having a plurality of separate bar magnets disposed around and parallel to the rotor axis with adjacent extremities of unlike polarity, and pole pieces at each end of said rotor, said pole pieces each having an angular extent sufficient to magnetically couple two adjacent extremities of said bars whereby a plurality of said bars are coupled in magnetic series by said pole pieces, said pole pieces carrying windings to be energized.

1,787,015. POULTRY DRINKING FOUNTAIN. ELMER J. J. MUELLER, Jefferson Barracks, Mo. Filed May 9, 1929. Serial No. 361,614. 3 Claims. (Cl. 119—77.)



1. A device of the class described comprising a bottom, a wall rising from the outer edge of the bottom, an inner drum rising from the bottom, an outer drum rising from the bottom, said inner drum being provided with openings below the level of the upper edge of the wall, said outer drum being provided with openings below the level of the upper edge of the wall, a top mounted on the upper end of the inner drum and having vent openings, a top mounted on the upper end of the outer drum, said outer drum provided with vent openings in the lower portion thereof below the level of the upper edge of the wall, a pipe leading through the centers of the tops and terminating a slight distance above the bottom and below the level of the upper edge of the wall, channel members fixed to the interior of said outer drum to receive air from the vent openings in the outer drum, said channel members terminating a slight distance below the top on the outer drum.

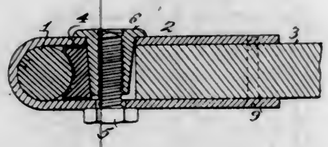
1,787,016. GEAR-WHEEL PULLER. WILLIAM G. OPEL, McKeesport, Pa. Filed Feb. 25, 1930. Serial No. 431,209. 6 Claims. (Cl. 29—85.)



1. A puller of the character described comprising a frame, a pair of wheel gripping members adjustably

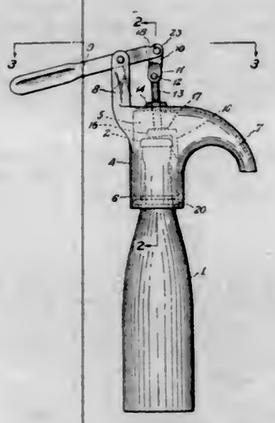
mounted on the frame, a shaft engaging member slidably mounted in the frame, anti-friction means mounted in the frame and engaging said shaft engaging member, said shaft engaging member having a plurality of teeth on the opposite edge portions thereof, rotatable gears mounted in the frame and engaging said teeth of said shaft engaging member, and rockable pawl members carried by the frame and adapted for engagement with said rotatable gears for rotation thereof.

1,787,017. DOOR-STRAP CLAMP. ABRAM FRANK PAUL, Upper Darby Branch, Philadelphia, Pa., assignor to National Pneumatic Company, New York, N. Y., a Corporation of West Virginia. Filed June 16, 1926. Serial No. 116,252. 3 Claims. (Cl. 287—52.02.)



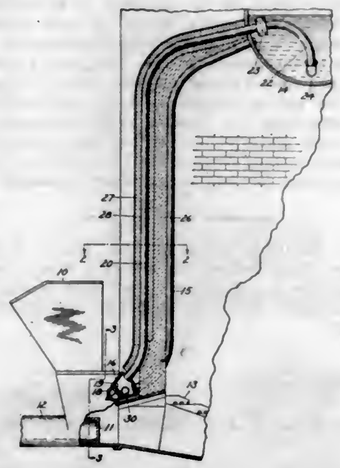
3. The combination of a U-shaped strap with a shaft nested within said strap, gripping means having two sets of serrations extending at an angle to each other, one set of said serrations engaging said shaft and the other set engaging said strap, and adjustable means mounted on the strap and arranged for engaging said gripping means to force it firmly against the shaft, so that one set of serrations thereof will bite into the shaft and the other set of serrations will engage the strap to prevent longitudinal and rotational movement of the strap with respect to the shaft.

1,787,018. MEANS FOR REMOVING BOTTLE CAPS. NORMAN P. PORZ, Cleveland, Ohio, assignor of one-half to George V. Porz, Cleveland, Ohio. Filed Nov. 18, 1927. Serial No. 234,125. 3 Claims. (Cl. 215—3.)



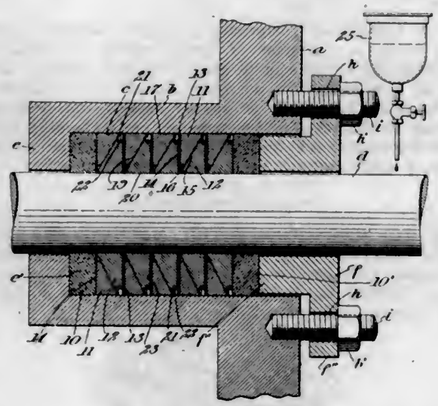
1. A bottle-cap remover comprising, a unitary chambered body member formed with an extended tubular portion adapted to enclose a bottle neck, said body member being also formed with a discharge spout, said neck-enclosing portion being provided with sealing means; and a handle member pivotally mounted upon said body member and formed with a cap-engaging portion extending within the chamber of said body member.

1,787,019. WATER-COOLED WALL. KARL PRANTNER, Berlin, Germany, assignor to Riley Stoker Corporation, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 21, 1930, Serial No. 437,854, and in Germany July 12, 1928. 7 Claims. (Cl. 122—6.)



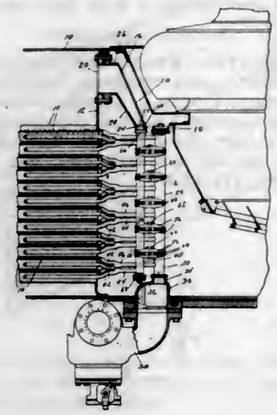
1. In combination with a furnace fired by a multiple retort underfeed stoker having a grate surface within the furnace and spaced ram cases for fuel feeding rams near and outside of the front wall of the furnace, a water wall comprising steam generating tubes adjacent to the front wall extending downwardly substantially to the stoker grate surface, and means to supply water to the lower ends of the tubes which is located exterior of the furnace and so constructed that access may be had to the tubes between the stoker ram cases without disturbing any part of the stoker.

1,787,020. PACKING FOR RODS AND SHAFTS. HOSEA F. SAUTTER, Fort Worth, Tex., assignor to The Linde Air Products Company, a Corporation of Ohio. Filed Sept. 14, 1926. Serial No. 135,418. 4 Claims. (Cl. 286—25.)



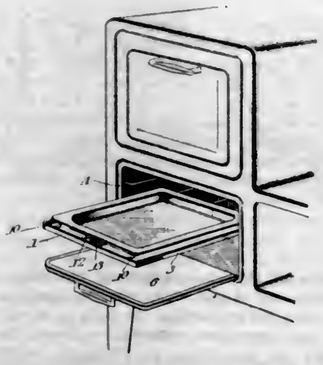
1. A high-pressure packing comprising outer and inner packing rings having complementary beveled sides in contact; said rings being composed respectively of two different lead alloys, the outer ring containing a lower percentage of lead and being materially harder than the inner.

1,787,021. SUPERHEATER. CHRISTOPHER A. SCHELLENS, Marblehead, Mass., and EUGENE L. SCHELLENS, Maplewood, N. J., assignors to C-S Engineering Company, Jersey City, N. J., a Corporation of Delaware. Filed Apr. 2, 1926. Serial No. 99,358. 18 Claims. (Cl. 122—462.)



1. In a superheater for locomotive boilers, independent superheated and saturated steam headers having approximately parallel sectional branches extended therefrom which are free from rigid interconnections and are free to flex, means detachably connecting the sections, and looped superheated tubes having free and independent ends which are free to expand and flex independently of each other connected with said branch sections.

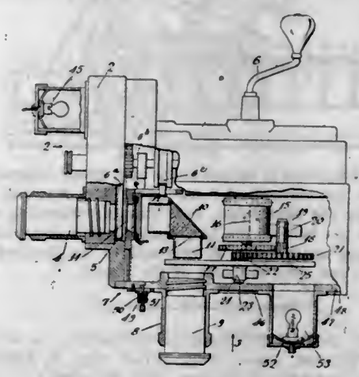
1,787,022. OVEN SHELF. FRANK E. SEELEY, Port Chester, N. Y., assignor to Abendroth Brothers, Port Chester, N. Y., a Corporation of New York. Filed July 24, 1929. Serial No. 380,636. 9 Claims. (Cl. 126—339.)



1. An oven shelf comprising a frame including front and rear end bars, and two laterally spaced members connecting said bars and each having a portion extending above the horizontal plane of the upper edges of the bars, whereby they serve to support a pan and also to limit relative horizontal movement, in the direction of the length of the end bars, between such pan and the frame.

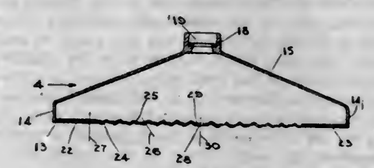
1,787,023. CAMERA AND METHOD OF PHOTOGRAPHY. JOHN F. SEITZ, Hollywood, Calif. Filed Nov. 22, 1926. Serial No. 149,937. 12 Claims. (Cl. 88—16.)

1. A combination camera and projector comprising a camera structure having a main lens, a film holder to receive light directly through the lens on the film, an auxiliary lens in the side of the camera, means to reflect light passing through the auxiliary lens on the back of the film, and a lamp holder secured in the side of the camera and shiftable to replace the auxiliary lens in relation to the reflector whereby light may be projected from the holder and reflected through the film and through the main lens.



4. The method of making mats comprising making trial photographs on strips of film through a plurality of lenses positioned at an angle to each other in a camera-like structure, developing such strips of film and replacing same in the same camera-like structure, and projecting light in the same path traversed by light through one of the lenses in taking the photographs, said light passing through the developed film and following the path of the other lens and utilizing the projected picture in the formation of a mat.

1,787,024. MANUALLY-OPERATED IRRIGATOR. BERTHA SJÖSTRÖM, Los Angeles, Calif. Filed July 20, 1927. Serial No. 207,076. 8 Claims. (Cl. 299—141.)

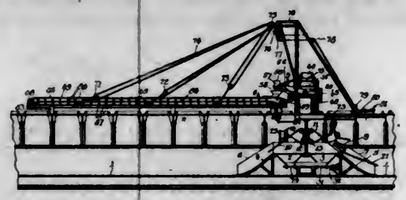


4. An irrigator having a casing with the front face with perforations and an inlet at the back in substantially the center, the center perforation having its axis in alinement with the intake, some of the perforations on each side having their axes inclined on the outside of the front wall inwardly toward the center perforation and some of the perforations at the extreme outside having their axes parallel to the center perforation whereby the outwardly flowing water in the irrigator is diverted by the inclined perforations to give parallel streams at each side of the center parallel to the center stream, and the back of the casing converging from the ends to the center whereby the streams from the extreme outside perforations are parallel to the center stream.

1,787,025. CARGO-DISCHARGING APPARATUS FOR SHIPS. LEWIS ANDREW STINSON, Oak Park, Ill. Filed Mar. 30, 1928. Serial No. 265,966. 2 Claims. (Cl. 214—15.)

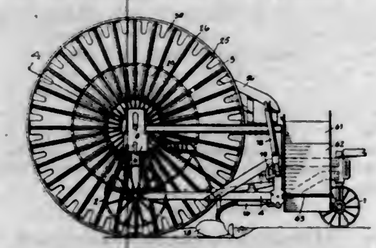
1. In combination with a cargo vessel, a pair of hoppers disposed side by side adjoining one another longitudinally above the floor of the vessel intermediate the ends thereof, longitudinal inclined chuteways leading from the cargo floor to said hoppers, means for drawing the cargo material from opposite ends of the vessel up said chuteways

into said hoppers, a horizontally disposed longitudinally vibrating table beneath the discharge orifices of said hoppers in the space between said chuteways having an outlet opening therein intermediate its ends and adapted to receive the material from the discharge orifices of the hop-



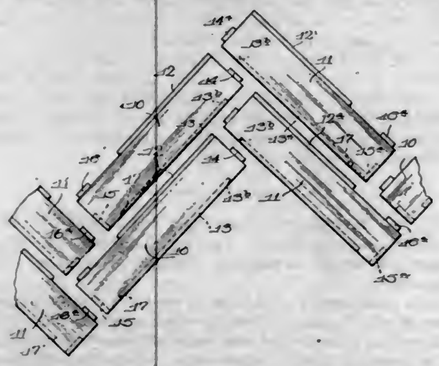
pers and discharge it downwardly at a point intermediate the same, an elevator for gathering the material from underneath the said table, said elevator traveling transversely of the hold of the vessel underneath the table and over to and up the side of the hold to an elevated position above and over the deck of the vessel.

1,787,026. AGRICULTURAL IMPLEMENT. JOHN BERNARD VERHOFF, Lima, Ohio. Filed Sept. 8, 1928. Serial No. 304,643. 3 Claims. (Cl. 55—108.)



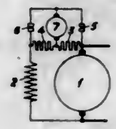
1. In a harvester for beets and the like, a pair of connected wheels, a plurality of pairs of radially extending finger members pivotally supported on the wheels at midradial points, each of the said finger members formed of two parts, a spring for connecting the parts of each finger member, the said parts having stops for limiting the pivotal movements of the said parts relative to each other by the pressure of the spring, a cylindrical member surrounding the axis of the wheels and having a cam edge for operating on the inner ends of the fingers to separate and bring together the outer ends of the fingers to grasp the beets by the tension of the springs.

1,787,027. HERRINGBONE FLOORING. ALEX WASLEFF, Chicago, Ill. Filed Feb. 20, 1929. Serial No. 341,352. 4 Claims. (Cl. 20—8.)



1. Herringbone flooring comprising pieces each having a long and short tongue on one side and a groove on the opposite side, and a relatively short tongue on one end and a short groove on the opposite end, said short tongue and groove both being disposed adjacent the same side of the piece, and having mutually interlocking engagement respectively with the side groove and the short side tongues of abutting pieces to restrain relative lateral movement of said abutting pieces in at least one direction.

1,787,028. EXCITING MEANS FOR DIRECT-CURRENT GENERATORS. ARLE YTTERBERG, Hogberget, Ludvika, and IVAR HERLITZ, Magnet, Ludvika, Sweden, assignors to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Corporation of Sweden. Filed Feb. 29, 1928, Serial No. 257,799, and in Sweden Mar. 5, 1927. 4 Claims. (Cl. 171—225.)



1. Exciting means for D. C. generators comprising a D. C. generator, a self-energized exciting winding therefor, an auxiliary independent voltage source of excitation, and oscillatory contact means for shifting the connections of said source to affect the said exciting winding fed thereby, so as to cause the said source to alternately cooperate with and counteract the self-energization of said exciting winding.

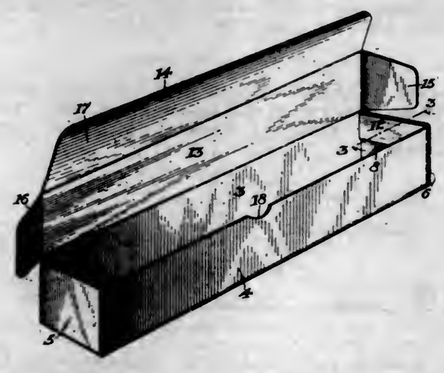
1,787,029. VEHICLE. HENRY AANONSON, Eland Junction, Wis. Filed May 13, 1929. Serial No. 362,813. 5 Claims. (Cl. 180—4.)

1. A vehicle of the class described including a body, an axle at each end of the body, traction members on the ends of the axles for supporting the body, a motor carried by the body and operative connection between the motor and the axles for imparting an alternate reciprocating movement to the axles whereby one axle remains stationary while the other is in motion, the movement of the axles through their connection with the motor imparting movement to the body in the same general direction.

1,787,030. ONE-PIECE BOX. CHAMPE S. ANDREWS, North Chattanooga, Tenn., assignor to Box Blank Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 1, 1926. Serial No. 85,138. 5 Claims. (Cl. 229—33.)

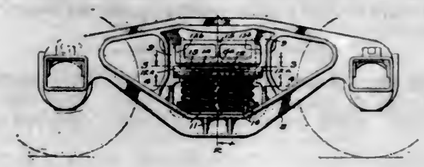
1. A container and cover therefor composed of a single blank, said container having a bottom wall and side and end walls, said cover extending from and being hinged on one side wall, said side walls having side wall flaps on their vertical edges, said end walls having end wall flaps

on their upper edges, said side wall flaps being disposed between their respective end walls and end wall flaps, the upper portions only of said side wall flaps having



adhesive on both faces, whereby said side wall flaps, are firmly adhesively secured between said end walls and said end wall flaps respectively.

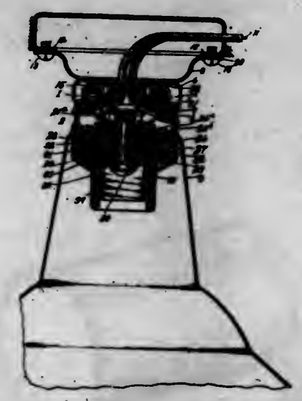
1,787,031. CAR TRUCK. FRANKLIN L. BARBER and EDWIN W. WEBB, Chicago, Ill., assignors to Standard Car Truck Company, Chicago, Ill., a Corporation of New Jersey. Filed Apr. 9, 1928. Serial No. 268,511. 8 Claims. (Cl. 105—197.)



1. In a railway car truck, a bolster, side frames each having an upper compression chord, a lower tension chord, and spaced columns connecting the chords and forming between them an opening to receive an end of the bolster, each tension chord having a flat horizontal portion extending from the base of one column to the base of the other and reinforcing webs on opposite sides thereof extending downwardly at an incline from the columns to the horizontal portion inwardly of the columns, a group of bolster supporting springs on said horizontal portion, certain springs of said group occupying the spaces adjacent the column between said reinforcing webs, a roller seat interposed between the upper ends of said springs and the bolster, and bearing rollers interposed between the seat and bolster.

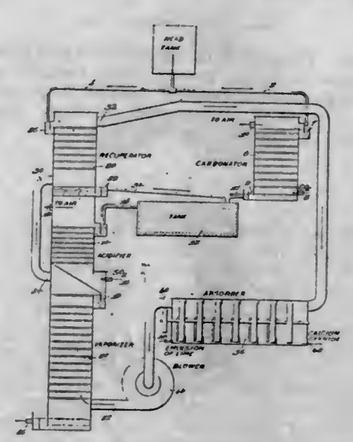
1,787,032. FIXTURE CONSTRUCTION. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed July 16, 1927. Serial No. 206,158. 6 Claims. (Cl. 240—85.)

1. A ceiling fixture construction comprising a unit to be secured to the ceiling and a second unit detachably secured to said first unit, said first unit comprising a wiring base and an inverted cup-shaped housing in which said wiring base is mounted, said housing being provided with a screw-threaded connector member surrounding said wiring base, said wiring base being provided with wiring terminals and readily engageable and disengageable contact members, said second unit comprising a reflector member and a lamp socket carried thereby, said reflector member being provided with a threaded connector member rigid therewith and non-rotatable with respect thereto for engagement with said first threaded connector member, whereby the connection may be made by rotating the reflector member, said socket comprising lamp



contacts and readily engageable and disengageable contacts for engagement with the contacts on the wiring base, said connector members being distinct from and not electrically connected with said contact members.

1,787,033. METHOD FOR RECOVERING CYANIDES. RUSSELL R. BRYAN, Pachuca, Hidalgo, Mexico, assignor, by mesne assignments, to The Merrill Company, San Francisco, Calif, a Corporation of California. Filed June 2, 1926. Serial No. 113,174. 9 Claims. (Cl. 23—84.)

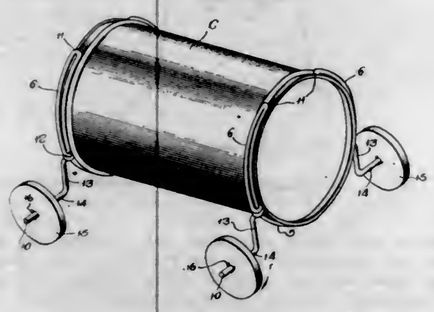


3. The method of recovering cyanide from cyanide solutions which consists in acidifying the solution to form hydrocyanic acid, passing a current of air through the acidified solution, treating the current of air by brief contact with an alkaline solution to remove foreign acid constituents without appreciable neutralization of hydrocyanic acid, and thereafter subjecting the current of air to prolonged intimate contact with an alkaline solution to absorb the hydrocyanic acid.

9. The method of recovering cyanide from cyanide solutions containing an alkali and carbonates which consist in dividing the solution into two portions, treating one portion with carbon dioxide to neutralize the alkali, treating it with sulphur dioxide to form hydrocyanic acid and carbon dioxide, passing a current of air through the

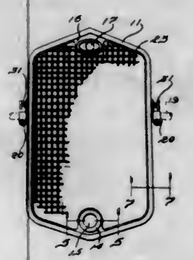
solution to vaporize the hydrocyanic acid and also carbon dioxide and sulphur dioxide, passing the air current through the remaining portion of the original cyanide solution to utilize its sulphur dioxide and carbon dioxide content by neutralization of the alkali of the solution, absorbing the remaining hydrocyanic acid in an alkaline solution to form a cyanide, and thereafter passing said remaining portion of the original solution into contact with the sulphur dioxide.

1,787,034. TOY VEHICLE FRAME. ONSLOW R. BURNS. Chicago, Ill. Filed Jan. 17, 1930. Serial No. 421,542. 14 Claims. (Cl. 46—48.)



1. The combination with a body, means for converting said body into a vehicle comprising a main spring member adapted to embrace a portion of said body and maintain engagement therewith solely through the spring action of said member, auxiliary members formed integrally therewith, and wheel supporting means coacting with said auxiliary members.

1,787,035. SHIELD FOR AUTOMOBILE RADIATORS. CLARENCE R. DAVIS, Detroit Mich., assignor to Davis Tool & Engineering Company, Detroit, Mich., a Corporation of Michigan. Filed June 30, 1930. Serial No. 464,780. 9 Claims. (Cl. 293—54.)

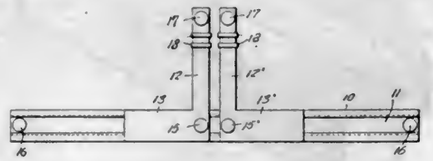


1. A shield for automobile radiators comprising a frame, holding means secured to said frame and comprising forwardly projecting arms and rearwardly projecting resilient buffers, a screen extending over the central portion of said shield and secured to said frame.

1,787,036. PROCESS FOR THE PRODUCTION OF PROPENYL DERIVATIVES OF AROMATIC HYDROCARBONS. JACOB EHRLICH, Belleville, N. J., assignor to Verona Chemical Co., Newark, N. J., a Corporation of New Jersey. Filed Oct. 12, 1928. Serial No. 312,213. 8 Claims. (Cl. 260—150.)

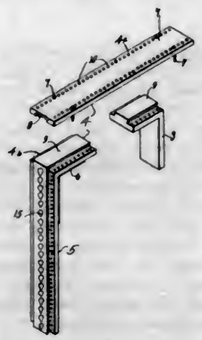
1. In a process for the production of propenyl derivaties of aromatic hydrocarbons from their corresponding allyl derivatives, the step which comprises heating an allyl derivative of an aromatic hydrocarbon with an alkali in the presence of an organic phenolic compound which causes a solution of the allyl compound and its corresponding propenyl derivative during the isomerization process and in which process said phenolic compound remains practically chemically unchanged.

1,787,037. LINE-UP GAUGE FOR PROVING TYPE FORMS. JOHN P. FLYNN, Medford, Mass. Filed Feb. 24, 1928. Serial No. 256,602. 2 Claims. (Cl. 33—184.5.)



1. A line-up gauge for proving type forms having the general shape of a T-square having a straight-edge head bar and two straight-edge members parallel with each other and extending at right angles to the head bar, each of said parallel members having an adjustable connection with the head bar whereby they are adjustable longitudinally of the head bar and laterally with relation to each other, and means for clamping the said parallel members in their adjusted positions, said head bar and parallel members having legs to support the gauge in the gutter of a type form, straight-edge members mounted on each of said parallel members and adjustable longitudinally thereof, said movable straight-edge members being adapted to serve as spacers to engage the sides of the gutter.

1,787,038. WALL STRUCTURE AND ATTACHMENT. HENRY G. GEOFFRAY, Cleveland, Ohio. Filed Sept. 12, 1927. Serial No. 219,013. 2 Claims. (Cl. 248—17.)

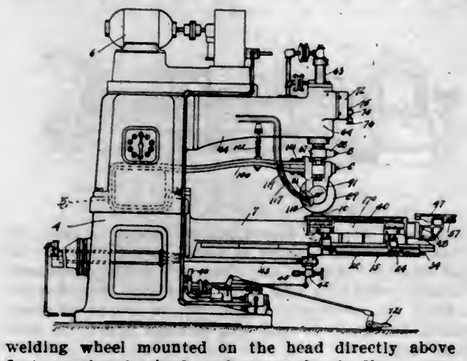


1. A universal wall-carried support, comprising an extensible arm adapted to be laid up in a wall, means permitting extending said arm, said means comprising telescoping sections having rib and groove interengagement, an anterior arm connected to the first-mentioned arm, an attachment-carrier engageable with said anterior arm, and means for regulating the height of said attachment-carrier relative to said anterior arm.

1,787,039. SEAM-WELDING MACHINE. WILLIAM H. GIBB, Bay City, Mich., assignor, by Mesne Assignments, to Thomson-Gibb Electric Welding Company, a Corporation of Massachusetts. Filed June 28, 1928. Serial No. 288,863. 15 Claims. (Cl. 219—4.)

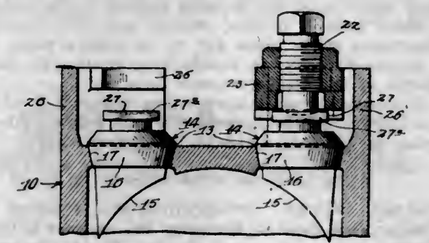
1. In an electric seam welding machine comprising a frame, a mandrel secured thereto, a traveling carriage

mounted thereon and insulated from said mandrel, a welding wheel journaled on said mandrel, an arm on the frame, a reciprocating head mounted thereon, an upper



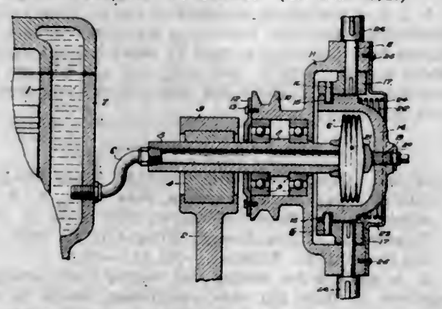
welding wheel mounted on the head directly above the first mentioned wheel, and means for feeding current to said welding wheels.

1,787,040. OIL-REFINERY FITTING. CLARENCE B. HARBISON, Lima, Ohio, assignor to The Ohio Steel Foundry Company, Lima, Ohio, a Corporation of Ohio. Filed Mar. 7, 1929. Serial No. 345,188. 6 Claims. (Cl. 137—76.)



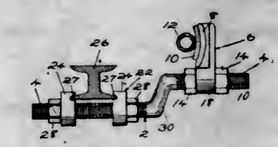
1. A plug lock for pressure systems comprising a casing having an aperture, and a plug having an inner deflector surface seated therein, upstanding walls on opposite sides of said aperture and open at one side, opposed locking flanges on said walls, a set lock movable laterally through said open side into non-rotatable engagement beneath said flanges, means on said plug for interlocking non-rotatable engagement with said set lock and permitting insertion of the latter beneath said locking flanges in but one angular position of said plug relative to said casing, and a set screw threaded in said set lock adapted to engage with said plug when said locking piece is engaged with said locking flanges.

1,787,041. THERMOSTAT-CONTROLLED FAN. WALTER J. HUGHES, Chicago, Ill. Filed Feb. 28, 1929. Serial No. 343,479. 16 Claims. (Cl. 123—171.)



1. The combination with an engine forming a source of heat, a fan, means including an eccentric for supporting the fan with respect to the engine, and means for automatically regulating the air moving capacity of the fan directly in response to the heat of the engine, said control means including a thermostat housed in the fan and directly connected with the engine.

1,787,042. STEERING STABILIZER. NATHAN E. JOAQUIN, Los Angeles, Calif., assignor of one-half to John E. Stewart, Los Angeles, Calif. Filed Jan. 14, 1929. Serial No. 332,253. 5 Claims. (Cl. 280—89.)



1. A vehicle steering stabilizer comprising a rotatable rod, a pressure foot adjustably associated with said rod, and adapted for rotation thereon, said pressure foot being adapted to engage one of the relatively movable members of said vehicle, and an anchoring means adjustably associated with said rod, and also rotatable thereon, and adapted to be anchored on the other of said members whereby the steering mechanism of said vehicle may be stabilized.

1,787,043. KNITTED CAP AND METHOD OF MAKING THE SAME. DAVID KARGER, Milwaukee, Wis. Filed Feb. 16, 1929. Serial No. 340,586. 2 Claims. (Cl. 2—201.)

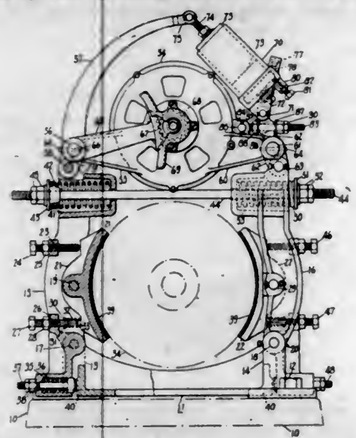


1. A knitted cap, comprising a one-piece knitted blank having selvages of angular form at each side, the end edges of the blank being secured together and the adjacent angular portions of the upper selvage being secured together to form an upper ovate end, said cap having a pair of adjacent narrow front areas with the outer side edges of the upper portions thereof secured together and the material thereof folded inwardly, the rows of knitting of said narrow front areas being oppositely and diagonally extending, said narrow front areas terminating a substantial distance below the apex of the cap, a pair of wider front areas adjacent the narrow areas and having their rows of knitting diagonally, outwardly, downwardly extending, a pair of wide side areas with horizontal rows of knitting, and a pair of rear areas having diagonally upwardly extending rows of knitting from the rows of the side areas, the lower portions of the areas forming quadrilateral laps with a rear neck recess therebetween.

1,787,044. MOTOR-OPERATED BRAKE. GEORGE W. LAUTRUP, Yonkers, N. Y., assignor to Otis Elevator Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 11, 1927. Serial No. 225,508. 8 Claims. (Cl. 188—171.)

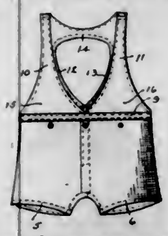
1. A brake comprising; a rotatable drum; a pair of brake shoes for frictionally engaging said drum; an oper-

ating member for each shoe; a motor having a frame and a rotative element, said motor frame being pivotally supported by said operating members; and means driven



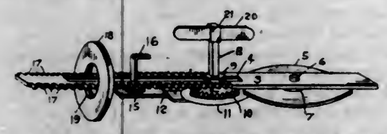
by said rotative element for causing movement of said operating members to move said shoes with respect to said drum.

1,787,045. UNDERGARMENT. FRED J. LEWIS, Indianapolis, Ind., assignor to McLoughlin Manufacturing Company, Indianapolis, Ind. Filed Aug. 23, 1928. Serial No. 301,457. 3 Claims. (Cl. 2—78.)



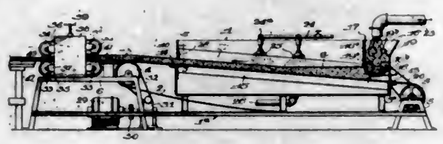
1. An undergarment, comprising a laterally disposed I-shaped portion having divergent arms at each of its ends, a pair of straps extending from the arms of the I-shaped portion at one side thereof, a pair of relatively shorter straps extending from the arms of the I-shaped portion at the other side thereof, and an encircling portion to which the lower ends of said straps are secured.

1,787,046. CAN OPENER. CELESTE A. LIQUORI, New York, N. Y., assignor of one-half to Ernest F. Liquori, New York, N. Y. Filed July 26, 1929. Serial No. 381,132. 2 Claims. (Cl. 30—3.)



1. In a can opener the combination of a slotted frame, a large disk rotatably mounted thereunder at one end, a slot in said frame running from the inner edge of said disk to a point near the opposite end of said frame, a handle and stem mounted in said slot so as to slide and rotate easily therein, a knurled disk and circular knife mounted on said stem under said frame so as to rotate therewith, an extension member mounted on said stem below said knife and carrying a pusher rigidly secured to its outer end, threading on the outer edges of said frame and a wheel internally threaded to engage the threading on said frame.

1,787,047. PULP-FILTERING MACHINE. EMIL C. LOETSCHER, Dubuque, Iowa. Filed Sept. 12, 1929. Serial No. 392,061. 14 Claims. (Cl. 92—39.)



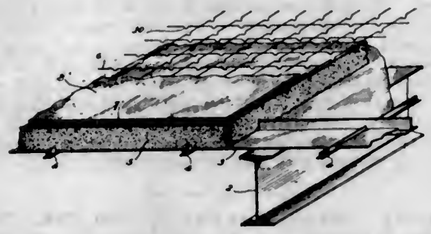
1. A pulp filtering apparatus comprising a tank, an endless screen belt adapted to travel in an upwardly inclined direction through said tank, means for continuously feeding pulp into said tank above said belt whereby the fibres are deposited on said belt in a mat of predetermined thickness as said belt emerges above the level of said pulp.

1,787,048. HYPOCHLORITE COMPOSITION. ROBERT BURNS MACMULLIN and MAURICE C. TAYLOR, Niagara Falls, N. Y., assignors to The Mathieson Alkali Works, Inc., New York, N. Y., a Corporation of Virginia. Filed Aug. 16, 1928. Serial No. 300,148. 12 Claims. (Cl. 23—86.)

1. The method of producing a new hypochlorite compound which comprises bringing together in the presence of water sodium, calcium, chloride and OCl ions at a temperature below about 16° C. to form a triple salt of calcium hypochlorite, sodium hypochlorite and sodium chloride in hydrated crystalline form.

11. As a new product, a crystalline triple salt of calcium hypochlorite, sodium hypochlorite and sodium chloride, having the formula $Ca(OCl)_2.NaOCl.NaCl.12H_2O$.

1,787,049. FLOOR CONSTRUCTION. HERBERT E. MARKS, Glen Osborne, Sewickley, Pa., assignor to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 19, 1926. Serial No. 102,834. 3 Claims. (Cl. 94—8.)

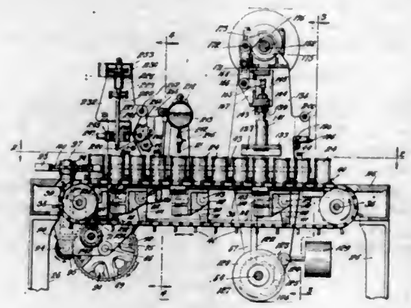


1. A floor comprising a monolithic slab of chalky calcium cementitious material, reinforcing material laid upon and spaced from the upper surface by offset integral portions which are anchored to said slab, and a relatively thin wearing layer of concrete laid upon the slab and encasing said reinforcing material.

1,787,050. MACHINE FOR CLOSING AND SEALING CANS. JOHN M. MCCLATCHIE, New York, N. Y., assignor to The Borden Company, New York, N. Y., a Corporation of New Jersey. Filed July 13, 1929. Serial No. 377,974. 7 Claims. (Cl. 113—30.)

1. A machine for closing and sealing cans having an aperture in their top ends, comprising, means for supporting the cans in upright position, means for intermittently advancing the cans through the machine, means

for supporting a strip of metal, means for cutting disks from the strip of metal and inserting them into the apertures in the cans, means for applying flux to the joints between the disks and the apertures, and means for soldering the joints between the disks and the apertures.

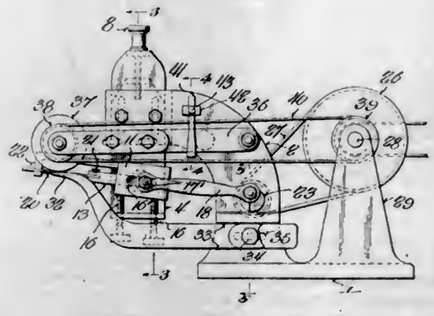


1,787,051. PILE FABRIC. WALTER F. MILLER, Freehold, N. J., assignor to A. & M. Karagheusian, Inc., New York, N. Y., a Corporation of Delaware. Filed Oct. 18, 1929. Serial No. 400,572. 3 Claims. (Cl. 139—405.)



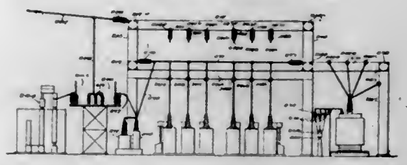
1. A two shot multi-color pile fabric the pattern of which is formed of a plurality of yarn threads of different individual colors, comprising a plurality of weft shots interwoven with ground chains, wherein a pattern forming yarn passes under a first weft shot, over a second weft shot and above the ground chain to form a pile loop, and finally over a third shot and under a fourth shot.

1,787,052. SKIVING MACHINE. SIGMUND J. PENTLER and OTTO R. SHORT, Wausau, Wis. Filed July 11, 1929. Serial No. 377,553. 4 Claims. (Cl. 69—15.)



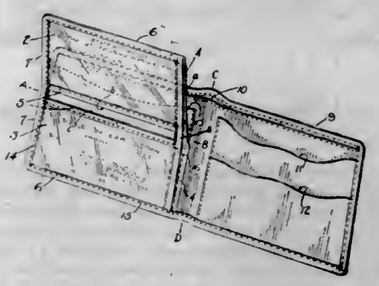
1. A skiving machine comprising a base, a standard carried by said base, a plate adjustably carried by said standard, a guide block having a pivotal connection with said plate, means for adjusting the angle of said guide block, a reciprocative knife having a slidable connection with said guide block, an anvil adjustably carried by said standard, a pivotal arm carried by said standard, means carried by said standard for supporting said arm, and a driven roller carried by the free end of said arm and cooperating with said anvil to hold the work material and creating tension upon the same during the skiving operation.

1,787,053. STATION CONSTRUCTION. ALLEN M. ROSSMAN, Chicago, Ill., assignor, by mesne assignments to Rossman Patents, Incorporated, Chicago, Ill., a Corporation of Illinois. Filed Dec. 31, 1927. Serial No. 243,908. 26 Claims. (Cl. 175—298.)



21. In a system of the class described, a plurality of stationary busses having parallel conductors, a plurality of stationary lines having parallel conductors transverse to and below the bus conductors, circuit breakers on the ground having terminals and connections from the terminal to the bus and line conductors said connections being disposed substantially in planes transverse to the line conductors.

1,787,054. WALLET. JACOB H. SCHEUER, New York, N. Y., assignor to Herman Scheuer's Sons & Co., Long Island City, N. Y., a Copartnership composed of Jacob H. Scheuer and Henry Lichtenstein. Filed Sept. 14, 1927. Serial No. 219,378. 2 Claims. (Cl. 150—38.)

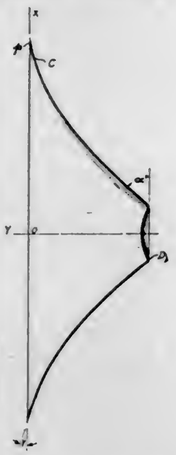


2. A wallet having opposed parts foldable together on a line between them and having on its inside to the left of said line when the wallet is right edge up a pocket having opposed parts whose inner side is transparent foldable together on a line intersecting the said wallet fold line, said pocket opening to the right adjacent the line of fold of the wallet, whereby the pocket when open displays its contents and the wallet when closed conceals the pocket and closes its open end.

1,787,055. ACOUSTIC DIAPHRAGM. VESPER ANDERSON SCHLENKER, Orange, N. J. Filed Mar. 16, 1928. Serial No. 262,290. 14 Claims. (Cl. 181—32.)

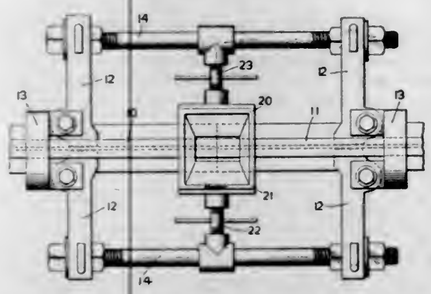
1. A sound reproducer comprising a self-supporting direct acting diaphragm of thin metal, of such shape that any section containing the axis is a curve convex toward the

said axis and any section made by a plane normal to the axis is a curve concave toward the axis, the mass and area



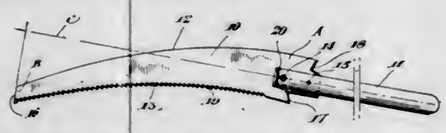
of said diaphragm being such that the fundamental period thereof when vibrating freely as a bell is below the lowest important voice frequency.

1,787,056. WELDING PROCESS. HUGH G. SPILSBURY, Cranford, N. J., assignor, by mesne assignments, to Francis Earle, Montclair, N. J. Filed Aug. 27, 1927. Serial No. 215,769. 5 Claims. (Cl. 22—206.)



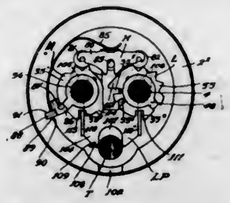
1. The process of welding rails which comprises locating a pair of rails with the heads and base portions abutting, providing a space between adjacent web sections, applying superheated molten metal about said rails whereby the head and base sections may be heated to the welding temperature and the molten metal permitted to unite with the adjacent web sections, and applying abutting longitudinal pressure to the rails to form an integral unitary rail.

1,787,057. PRUNING SAW. OTTOMAR LLEWELYN WARD, Waterville, Nova Scotia, Canada. Filed Sept. 26, 1929, Serial No. 395,422, and in Canada June 10, 1929. 1 Claim. (Cl. 30—11.)



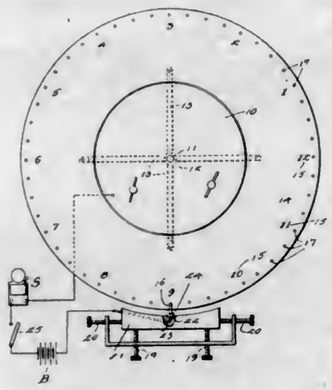
A pruning saw comprising a blade and a handle shaft secured to and extending longitudinally from the inner end of the blade, the inner end of said blade being wider than and projecting on both sides of said handle, the cutting side of said blade being cut away at said inner end to form a hook in the body of the blade and lying alongside said handle, the inner end of the non-cutting side of said blade being notched and sharpened to form a knife and means for securing said handle to said blade.

1,787,058. IGNITION AND LIGHTING SWITCH. ALFRED H. WEISS, Wilmette, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Original application filed May 24, 1920, Serial No. 383,675, now Patent No. 1,563,411, dated Dec. 1, 1925. Divided and this application filed Jan. 27, 1922. Serial No. 532,142. 9 Claims. (Cl. 200—166.)



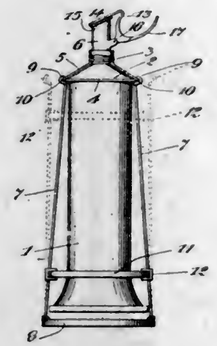
1. A rotor device of the character described including a mounting plate, a non-rotatable supporting member secured to said mounting plate, a supporting stud rotatably carried by said non-rotatable supporting member, a star wheel carried by said stud, a circuit closer carried by said stud, a pair of insulating cams located on each side of said circuit closer, means for preventing rotation of said cams and circuit closer relative to each other, a member securing said star wheel and said circuit closer to said stud to prevent said star wheel and circuit closer from rotating relative to said stud, means cooperating with said star wheel for yieldingly holding said rotor in position, and locking means adapted to engage said star wheel to prevent any rotation of said rotor.

1,787,059. ELECTRIC CLOCK. FLOYD E. WHITE, Winamac, Ind. Filed Dec. 8, 1928. Serial No. 324,771. 6 Claims. (Cl. 200—36.)



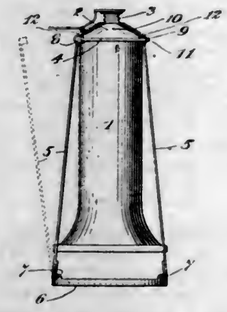
3. In combination, a member having a circular periphery having time indicia thereon, a clockworks for rotating the member, a relatively stationary member having a socket formed therein, a conductor extended into said socket, a liquid conductor disposed in the socket and of a character such that it projects above the surface of the member, and an angularly inclined rigid conductor adjustably connectible with the periphery of the rotating member, said rotating member having spaced openings in its periphery, the conductor carried thereby being angular in form and having an end portion adapted for selective engagement in said openings.

1,787,060. ATTACHMENT FOR CONTAINERS. FRANK WOLF, New York, N. Y. Filed Dec. 24, 1928. Serial No. 328,102. 11 Claims. (Cl. 221—60.)



1. An attachment for a collapsible tube with a soft body and a comparatively rigid top having an outlet nipple at the center and a bead-flange at the periphery of the top; the attachment being shaped to be put over said top and to constitute a sheathing for said top and outlet nozzle, and retaining means adapted to afford and maintain an engagement with the attachment to hold it in place on the bead flange.

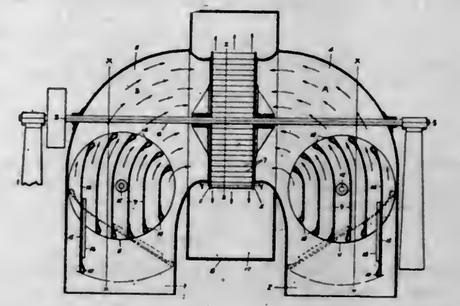
1,787,061. ACCESSORY FOR CONTAINERS. FRANK WOLF, New York, N. Y. Filed Dec. 24, 1928. Serial No. 328,103. 7 Claims. (Cl. 221—60.)



1. A soft collapsible tube comprising a rigid top with a bead-flange at the periphery of the top, an attachment for the tube to engage the flange at the top, and an accessory member for the top extending past the flange to grip the attachment and hold it in engagement with the tube.

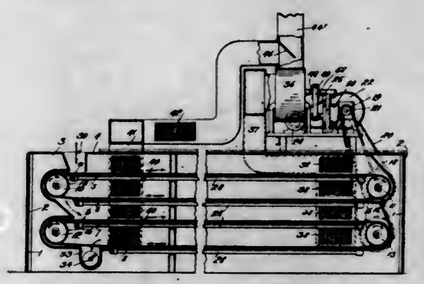
1,787,062. BLOWER. EDWARD L. ANDERSON, Grosse Ile, Mich., assignor to American Blower Corporation, Detroit, Mich., a Corporation of Delaware. Filed Mar. 29, 1929. Serial No. 351,079. 12 Claims. (Cl. 230—114.)

1. In combination in a fan, a casing therefor having an inlet passageway, a plurality of spaced guide vanes in said passageway, spaced plates for supporting the ends of said guide vanes leaving the space therebetween free for the passage of air, means for rotatably mounting said plates and said vanes in the passageway so that they may be adjusted rotatably with respect to the passageway, a



damper guide vane depending from said end plates adapted when rotated with the end plates to cut off the flow of air through the inlet passageway.

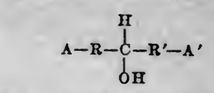
1,787,063. CONDITIONING MACHINE. VERNON CANO, Elizabeth, N. J., assignor, by mesne assignments, to Maryland Air Conditioning Corporation, a Corporation of Maryland. Filed Aug. 29, 1928. Serial No. 302,844. 1 Claim. (Cl. 34—12.)



In a machine of the character described comprising a bed or table for the material to be treated and means for conveying the material over said supporting bed comprising a movable belt, said belt being formed of flexible open mesh wire fabric and marginal link carrier chains having transverse connecting rods passed through the openings of the wire fabric, said belt being arranged to have sliding bearing engagement with the upper surface of the supporting bed and adapted to receive the material to be treated in the interstices thereof whereby it is agitated and conveyed by the belt as it moves over the supporting bed.

1,787,064. METHOD FOR RETARDING THE DETERIORATION OF RUBBER. WILLIAM S. CALCOTT and WILLIAM A. DOUGLASS, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 30, 1929. Serial No. 389,607. 19 Claims. (Cl. 18—50.)

1. The process of increasing the resistance of rubber to deterioration which comprises incorporating with the rubber a product having the following general formula



wherein A and A' represent amino groups or mono- or dialkyl amino groups, and R and R' represent aryl nuclei.

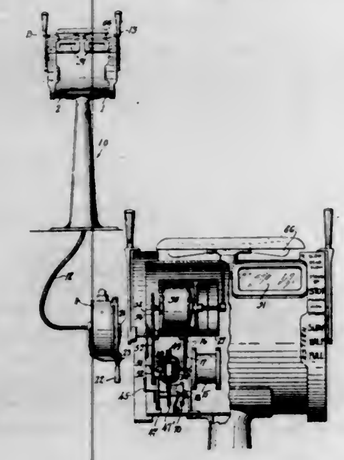
1,787,065. METHOD OF RETARDING THE DETERIORATION OF RUBBER. WILLIAM S. CALCOTT and WILLIAM A. DOUGLASS, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 9, 1929. Serial No. 391,504. 18 Claims. (Cl. 18—50.)

1. The process of increasing the resistance of rubber to deterioration which comprises incorporating with the rubber a compound having the following general formula

$$A-R-\overset{O}{\overset{\|}{C}}-R'-A'$$

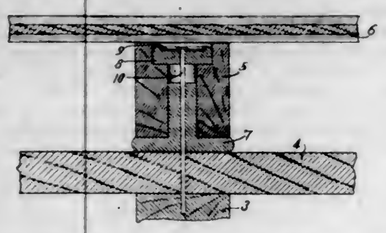
wherein each of A and A' represents an amino group or a mono- or dialkyl amino group, and R and R' represent aryl nuclei and thereafter vulcanizing.

1,787,066. SHIP'S TELEGRAPH AND RECORDER SYSTEM. LESLIE F. CARTER, Leonia, and FREDERICK S. HODGMAN, Glen Rock, N. J., assignors, by mesne assignments, to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Sept. 3, 1925. Serial No. 54,188. 7 Claims. (Cl. 234—27.)



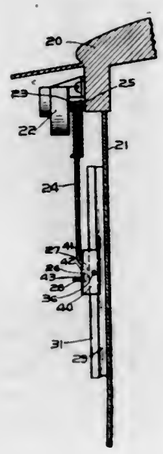
1. In a ship's telegraph and recorder device, a traveling chart, a recording stylus coacting with said chart, a bridge transmitter for sending orders, an engine room transmitter for transmitting responses to said orders, means whereby both of said transmitters actuate said stylus, and means for differentiating the records made by said stylus due to actuation by one of said transmitters from those due to actuation by the other of said transmitters.

1,787,067. FLOOR CONSTRUCTION. HENRY G. EISLER, Wilmette, Ill. Filed Jan. 19, 1929. Serial No. 333,724. 7 Claims. (Cl. 20—6.)



6. The combination, with a nailing strip having holes therein through which nails may be driven to attach the strip to a support, of a pair of bushings for each hole to insulate the strip from the nails, one bushing of each pair serving also as a support for the strip.

1,787,068. BLADE-ATTACHING MEANS FOR WINDSHIELD WIPERS. ALEXIS F. GILLET, Omaha, Nebr., assignor to Jubilee Manufacturing Company, Omaha, Nebr., a Corporation of Nebraska. Filed Apr. 21, 1930. Serial No. 445,846. 1 Claim. (Cl. 15—255.)



In combination with a wiper element having a transverse opening therethrough, a sheet metal clip of U-shape resiliently engaging over the back portion of the wiper element and provided in opposite sides with indentations engaging in the opposite ends of said aperture of the wiper element for holding the clip in position thereon, said clip provided at its free edges with inturned flanges engaging the edge portions of the back strip of the wiper element for holding the clip thereto, and a spring arm having a free end hook portion detachably engaged with said clip.

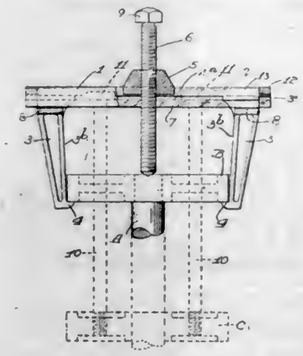
1,787,069. COLORING MATTER OF THE ANTHRACENE SERIES. IVAN GUBELMANN and ROBERT J. GOODRICH, South Milwaukee, and WILLIAM DETTWYLER, Milwaukee, Wis., assignors to The Newport Company, Carrollville, Wis., a Corporation of Delaware. Filed Dec. 11, 1926. Serial No. 154,304. 8 Claims. (Cl. 260—37.)

1. The process of preparing coloring matters of the anthracene series, which comprises condensing an anthraquinone halogen substituted benzacridone which contains a halogen atom in meta position to the imino group in the benzene ring, with an amino anthraquinone body and heating the resulting product with a metal chloride.

1,787,074. DISK-WHEEL MOUNTING. J HAROLD Maywood, Ill. Filed Apr. 15, 1927. Serial No. 183,974. 2 Claims. (Cl. 29—85.)

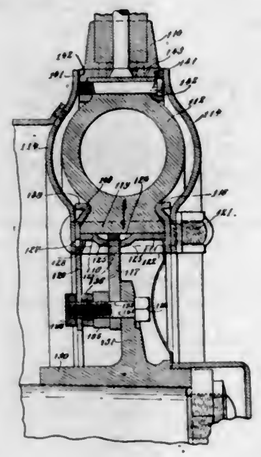
1. In combination, a cross-bar having a longitudinal slot open at both ends and unobstructed throughout its length with opposed ribs extending from the side walls of the slot to form an undercut channel in the bar, a pair

of pulling fingers with bases laterally grooved for sliding engagement with said ribs, a boss at the middle of the



bar disposed opposite the slot but offset from the undercut channel, and pressure exerting means associated with said boss.

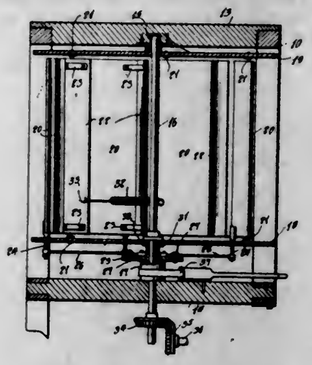
1,787,071. RESILIENT WHEEL. SCHUYLER C. HATFIELD, Baltimore, Md. Filed Apr. 5, 1927, Serial No. 181,034. Renewed May 27, 1930. 11 Claims. (Cl. 152—41.)



1. An elastic wheel comprising an annular rim section, a hub section encircled by and spaced inwardly from the rim section to provide relative radial motion and a pneumatic pad between the sections, the hub section consisting of a sheet metal ring and a separate radial plate with interlocking means connecting the two together, and means securing the plate to a hub.

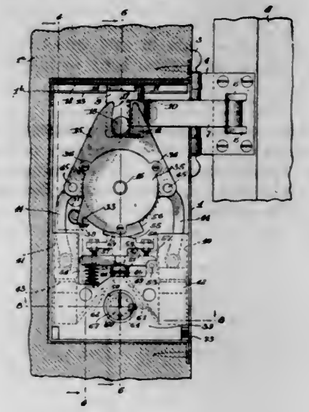
1,787,072. WINDMILL. JOHN HENDERSON, Picher, Okla. Filed July 12, 1928. Serial No. 292,052. 1 Claim. (Cl. 170—38.)

A windmill having a relatively unobstructed interior and comprising a shaft, plates carried thereby, wings pivoted eccentrically to the plates and arranged substantially in the path of a circle, said wings at one side edge having inwardly extending flanges for the purpose specified, a substantially diametrically arranged contractile spring connecting certain of the wings between said axis



and flanges, a hub journaled on said shaft below the plates, connections from said hub to each of said wings including studs depending from the wings, the lowermost plate having slots through which said studs pass and in which they move.

1,787,073. DOOR-CONTROL APPARATUS. REUBEN HILL, Detroit, Mich., assignor to Sargent & Greenleaf, Inc., Rochester, N. Y., a Corporation of New York. Filed Aug. 23, 1927. Serial No. 214,969. 25 Claims. (Cl. 16—66.)



1. In a door closing device, the combination of a door, a door jamb having a chamber provided therein, a pivotally mounted element in said chamber, a slidably mounted operating member for said element, a link connecting said member with said door, and a spring operatively associated with said element and tending to move it in one direction, whereby said door is urged to a closed position.

1,787,074. DISK-WHEEL MOUNTING. J. HAROLD HUNT, Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 14, 1926. Serial No. 135,314. 1 Claim. (Cl. 301—9.)

A vehicle wheel comprising in combination a hub, a radial flange on said hub, said radial flange being provided

with a pair of spaced annular lands adapted to form bearing surfaces for a wheel body and having an annular depression therebetween, a series of bolts secured to said hub flange within the radial confines of said annular depression, a wheel body in the form of a web plate, said wheel body being provided in its radial portion between said lands with a series of annularly arranged openings adapted to receive said bolts, the openings in said web

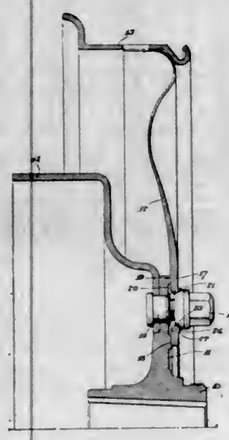
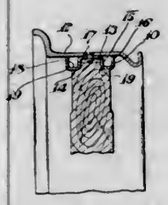


plate being outwardly coined and provided with concave seats, and a plurality of nuts of considerably smaller diametrical extent than the radial extent of said depression adapted to co-act with said bolts in securing said wheel body and flange in their assembled relationship, said nuts having convex portions adapted to be received in the concave seats in said wheel body, whereby to resiliently clamp said wheel body to said flange.

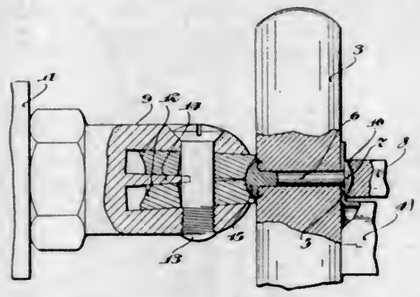
1,787,075. SPOKE-END-CAP CONSTRUCTION. J HAROLD HUNT, Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 23, 1927. Serial No. 242,036. 2 Claims. (Cl. 301—67.)



1. A sheet metal spoke end cap comprising a transverse bottom portion for securement to the rim and double side walls spaced apart but connected together at the top to form a transverse shoulder providing a spoke end seat.

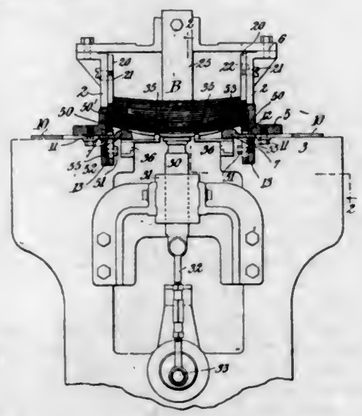
2. A sheet metal spoke end cap comprising a cup-shaped body portion facing radially outwardly and having its outer side wall adapted to seat against the rim of the wheel and its central portion depressed and adapted to engage the wheel rim for securement thereto and to receive a spoke tenon therein and a shoulder between said recess and the outer side wall of the body of the cap forming an abutment for a shoulder surrounding a spoke at the base of its tenon.

1,787,076. RIVETED STRUCTURE. JOHN E. KALGREN, Minneapolis, Minn., assignor to J. R. Clark Company, Minneapolis, Minn., a Corporation of Minnesota. Original application filed Mar. 12, 1927, Serial No. 174,995. Divided and this application filed Jan. 28, 1930. Serial No. 424,028. 2 Claims. (Cl. 78—46.)



1. A method of forming a mushroom head on a rivet and clinching the same directly into a compressible member while supporting the rivet in said member, which consists in upsetting the end of the rivet by spinning action directly against the member and simultaneously curling the peripheral edge of the head being formed rearwardly and inwardly toward the rivet shank into the compressible material of said member, the curling edge cutting and imbedding itself into such material on an inwardly directed arc.

1,787,077. APPARATUS FOR SEPARATING SHEETS. PETER KRUSE, Brooklyn, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a Corporation of Delaware. Filed July 22, 1927. Serial No. 207,594. 6 Claims. (Cl. 271—32.)

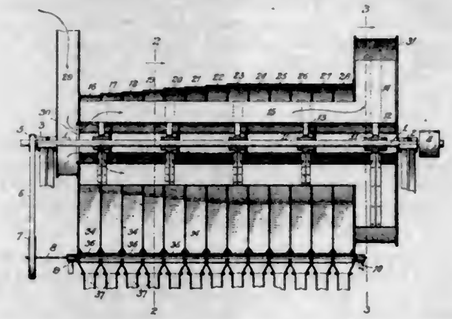


1. A sheet-separating device, comprising convergent guides, the surfaces of which approach sufficiently to cause a plurality of the sheets of a stack which is fed between them to buckle, whereby the most advanced sheet will be centrally separated from the sheet next succeeding it, the convergence of said guides being insufficient to prevent the downward movement of the said stack, and stack-supporting means adapted to engage the exposed surface of said advanced sheet between the central portion and the edge thereof whereby the stack of sheets will be retained between the said guides, an adjusting means being provided between said convergent guides and said stack-supporting means, whereby the said supporting means can be adjusted to engage the stack only after the convergent guides have, by their wedging action, buckled the sheets to produce the required separation of such sheets.

1,787,078. METHOD OF PRODUCING SODIUM STANNATE. WILLIAM T. LITTLE, Westfield, N. J. Filed Sept. 10, 1929. Serial No. 391,707. 4 Claims. (Cl. 23—53.)

1. In the recovery of sodium stannate in crystalline form from sodium stannate solutions, the process which comprises adding a strong NaOH solution to such a sodium stannate solution, thereby precipitating crystals of sodium stannate.

1,787,079. PULVERIZED-MATERIAL SEGREGATOR. HENRY G. LYKKEN, Minneapolis, Minn. Filed Oct. 4, 1924. Serial No. 741,532. 13 Claims. (Cl. 209—144.)

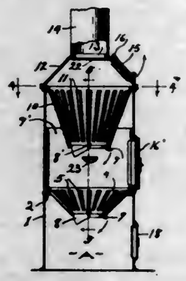


4. A segregator for ground material, comprising a housing, a rotor in said housing, means for causing an uninterrupted stream of material laden air to flow through said housing and along said rotor, and a series of chambers in said housing and surrounding said rotor to receive material projected from said stream by said rotor in successive grades of fineness.

1,787,080. METHOD OF PRODUCING A NEW HYPOCHLORITE COMPOSITION. ROBERT B. MACMULLIN and MAURICE C. TAYLOR, Niagara Falls, N. Y., assignors to The Mathieson Alkali Works, Inc., New York, N. Y., a Corporation of Virginia. Original application filed Aug. 16, 1928, Serial No. 300,148, and in Germany May 11, 1929. Divided and this application filed Mar. 6, 1930. Serial No. 433,803. 1 Claim. (Cl. 23—86.)

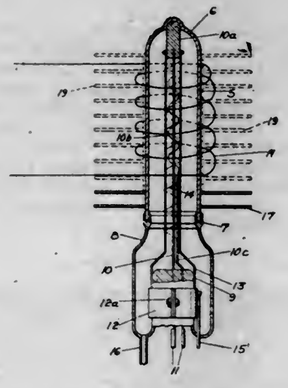
The method of producing a new hypochlorite compound which comprises adding sodium chloride to a saturated solution of calcium hypochlorite at a low temperature to form a triple salt of calcium hypochlorite, sodium hypochlorite and sodium chloride in crystalline form.

1,787,081. INCINERATOR. JOSEPH R. MCLELLAN, Wichita, Kans. Filed Oct. 16, 1926. Serial No. 142,140. 2 Claims. (Cl. 110—18.)



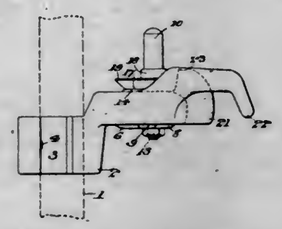
1. In an incinerator of the class described, a shell having a frusto-conical firepot with a plurality of elongated openings through the wall thereof to function as vents, said firepot having flanges to engage on the top of the shell as supporting means therefor, a second frusto-conical firepot for débris, said firepot having a plurality of elongated openings functioning as vents, spaced below the center of the shell and carried thereby, a lining resting on the upper rim of said firepot, said lining extending a short distance above the lower end of the first said firepot, a door as means of access to each of said firepots, and a gas burner intermediately positioned to the said firepots.

1,787,082. VACUUM-TUBE MAKING. FREDERICK S. MCCULLOUGH, Wilkinsburg, Pa. Filed Mar. 29, 1924. Serial No. 702,818. 7 Claims. (Cl. 250—27.5.)



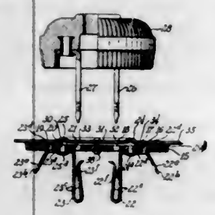
1. The method of preparing a high emitting low temperature cathode in electron tubes having metal shells with glass seals, which consists in assembling into the tube a cathode having a low temperature high electron emitting coating thereon, connecting the assembled tube with a pump, baking the entire tube to partially de-gasify it at a moderately high temperature but below the melting point of glass, then raising the temperature of the metal shell of the tube to a glowing temperature while maintaining the glass seal hot but below its melting temperature, the tube remaining in connection with the pump, and the cathode being heated in a vacuum by the radiation of heat from the shell, whereby the cathode is conditioned for service and de-gasified in a vacuum and in place in the tube.

1,787,083. YARN-TENSION DEVICE. JOHN O. MCKEAN, Westfield, Mass., assignor to Foster Machine Company, Westfield, Mass., a Corporation of Massachusetts. Filed Apr. 9, 1929. Serial No. 353,799. 12 Claims. (Cl. 242—150.)



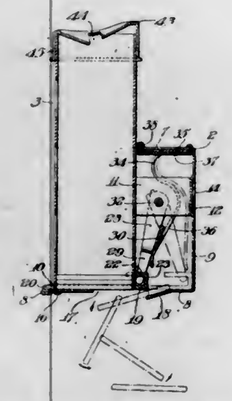
3. A yarn tension device comprising tensioning means and a supporting frame therefor provided with an offset closed loop through which the yarn is drawn upwardly in loop form in the threading of the yarn through the tensioning means, said supporting frame having "leading-in" and "leading-out" recesses for guiding the yarn into and out of the tensioning means.

1,787,084. ELECTRICAL PLUG RECEPTACLE. GEORGE J. MEUER, Milwaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a Corporation of Delaware. Filed Aug. 19, 1929. Serial No. 386,809. 8 Claims. (Cl. 173—339.)



C. As an article of manufacture, a combined contact and terminal member for plug receptacles, said member comprising a horizontal portion to be permanently secured to the under side of a suitable support, a reflexed contact clip portion depending from said horizontal portion, the free end of said reflexed clip portion being flared outwardly to provide a guide for a plug jack, a wiring terminal portion also depending from said horizontal portion, and a lug struck upwardly from said horizontal portion and adapted for positive engagement with cooperating shoulders on said support.

1,787,085. CHANGE MAKER. ARTHUR F. NELSON, Harrisburg, Pa. Filed Feb. 4, 1927. Serial No. 165,810. 18 Claims. (Cl. 133—6.)



1. In a change maker, a frame structure including a coin tube and a base plate forming a support for coins within the tube and having a coin discharging opening rearwardly of the bottom of the tube, means operable to move coins rearwardly from the bottom of the tube to said opening, and a coin interrupting part terminating in a forward edge located beneath the rearward portion of said opening in spaced relation to the plane of the base plate and constructed to be encountered by the rearward portion of a coin during its descent from said opening and cause the forward portion of the coin to descend in advance of the rearward portion thereof.

1,787,086. HEAT INTERCHANGER. ARTHUR E. PEW, JR., Bryn Mawr, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a Corporation of New Jersey. Filed June 10, 1926. Serial No. 114,910. 3 Claims. (Cl. 257—239.)

1. A heat exchanger casing composed of a plurality of pairs of sections, each pair being composed of complementary semi-cylindrical sections, abutting longitudinally extending flanges along adjacent edges of the casing sections



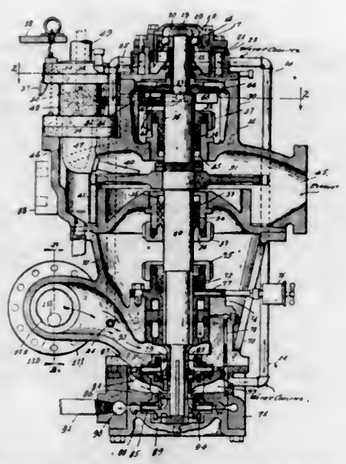
of each pair and abutting circumferential flanges on adjacent ends of adjacent pairs of casing sections, and means securing said abutting flanges.

1,787,087. SCREW DRIVER AND METHOD OF MAKING SAME. PETER L. ROBERTSON, Milton, Ontario, Canada. Filed Mar. 1, 1929. Serial No. 343,769. 3 Claims. (Cl. 76—101.)



1. A method of making a screw driver consisting in boring a hole in the end of a soft metal shank, forming a bit from a length of longitudinally ridged tool steel tapered at one end and forcing said tapered end into the round hole in the shank deforming the metal, the ridges of said bit being imbedded in the metal of the shank without broaching.

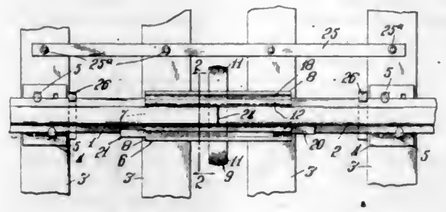
1,787,088. TURBO PUMP. VICTOR SCHLEYER, Anderson, Ind. Filed Jan. 10, 1927. Serial No. 160,198. 7 Claims. (Cl. 103—87.)



1. In combination, a turbo-pump having a vertical shaft, a single main anti-friction bearing supporting said shaft and located at the top thereof, a steady bearing near the lower end of the shaft, a steam turbine located between the two bearings and having a gland between it and each bearing, each gland being spaced from the adjacent bearing, and a multi-stage pump mounted on the shaft below the steady bearing.

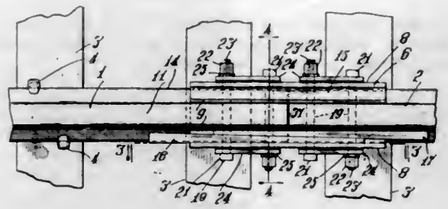
1,787,089. RAIL JOINT. RICHARD T. SCHOLES, Hinsdale, Ill. Filed Aug. 5, 1929. Serial No. 383,718. 15 Claims. (Cl. 238—263.)

1. A rail joint comprising a rigid one-piece rolled channel section of sufficient length to rest upon at least two adjacent ties and having a base portion adapted to support the end portions of the rails, and having integral side flanges extending upwardly at substantially right-angles to the base at the sides of the rails, joint bars adapted



to engage the respective sides of the rails between the head and base flanges thereof, a spacer interposed between one joint bar and the adjacent side flange of the channel, and wedging means interposed between the other joint bar and the adjacent side flange of the channel.

1,787,090. RAIL JOINT. RICHARD T. SCHOLES, Hinsdale, Ill. Filed Aug. 5, 1929. Serial No. 383,719. 11 Claims. (Cl. 238—208.)



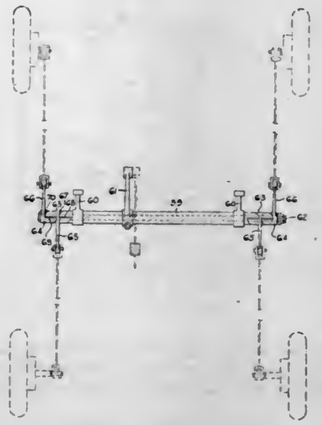
1. A rail joint comprising a rigid channel section having a base portion adapted to support the end portions of the rails, and having side flanges extending upwardly at the sides of the rails beyond the neutral axis of the rails, joint bars overlapping the adjacent end portions of the rails and engaged long the respective sides of the rails, adjustable spacing means interposed between the side flanges of the channel and the joint bars, and tying means inserted through the rails, joint bars and spacing means.

1,787,091. TROLLEY EAR AND ATTACHMENT THEREFOR. ANGUS G. SCOTT, Shaker Heights, Ohio. Filed Aug. 5, 1929. Serial No. 383,764. 12 Claims. (Cl. 191—43.)



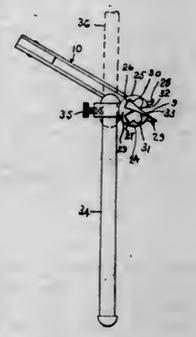
1. A detachable protecting device for a trolley car rigidly attached to a trolley wire, comprising a metal sheath, and readily-releasable means integral with the sheath for fastening said sheath detachably to said ear.

1,787,092. POWER-EQUALIZING DEVICE FOR VEHICLE BRAKES. JOHN W. SMITH, Philadelphia, Pa., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Original application filed Sept. 26, 1922, Serial No. 590,565. Divided and this application filed June 27, 1928. Serial No. 288,575. 8 Claims. (Cl. 188—204.)



1. A power equalizing device comprising a plurality of relatively movable elements and means for effecting a gradual binding engagement between the several elements upon the movement of one element relative to the others, together with front and rear vehicle brakes operated respectively from the said elements.

1,787,093. STANDARD BARBER RAZOR HOLDER. ALESSANDRO SODA, New York, N. Y. Filed Apr. 11, 1930. Serial No. 443,375. 2 Claims. (Cl. 30—12.)

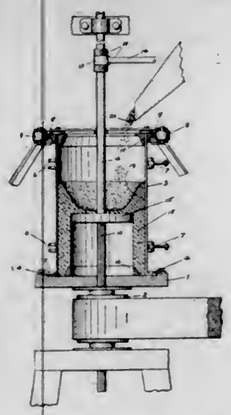


1. In a standard razor holder adapted to hold a razor blade, a base formed with two razor blade back holding grooves approximately 60 degrees apart, and having spring extensions integral therewith engageable with said razor blade and a boss upon said base slidably holding a handle.

1,787,094. CENTRIFUGAL MOLDING APPARATUS AND PROCESS. CLAUDE S. SORENSEN, San Carlos, Calif., assignor to California Concrete Products Co., Sunnyvale, Calif., a Corporation of California. Filed Jan. 4, 1930. Serial No. 418,538. 12 Claims. (Cl. 25—30.)

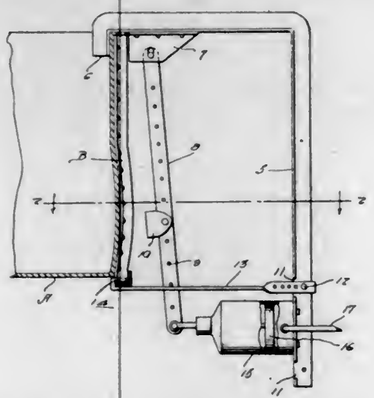
1. Centrifugal pipe molding apparatus comprising a vertically disposed revolvable mold shell, means for sup-

porting and revolving the shell at high speed, a disk within the shell substantially of the diameter of the inside of



the pipe to be molded, means supporting said disk centrally within the shell and for vertical movement, and means for raising and lowering said disk within the shell.

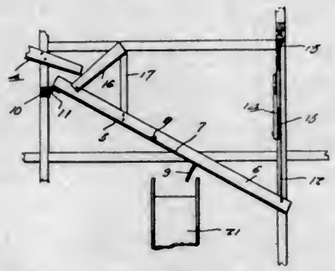
1,787,095. COAL-CAR STAKE-STRAIGHTENING DEVICE. CAREY E. STRAUSBAUGH, Chillicothe, Ohio. Filed July 5, 1928. Serial No. 290,636. 2 Claims. (Cl. 153—32.)



1. In a coal car stake straightening device, a frame unit, means associated with one end of the frame unit whereby to facilitate its attachment to the upper edge of a wall of the car directly above the upper end of the stake to be straightened, means whereby the lower end of the frame may be secured in spaced relation with the car, a cylinder associated with the frame and having a rectilinearly movable piston therein, a lever pivoted at one end to the forward end of the piston rod and at its opposite end to the said frame and a straightening head associated with said lever and adapted to be moved into engagement with the bent portion of the stake when pressure is admitted into the cylinder in back of said piston.

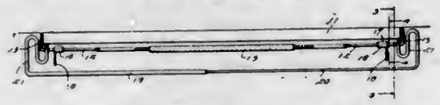
1,787,096. COAL SEPARATOR. PHILIP TARONE and JOHN ROWLAND, Ravenrun, Pa. Filed Aug. 15, 1928. Serial No. 299,668. 1 Claim. (Cl. 209—118.)

In a coal separator, a supporting structure, a plurality of inclined chutes hingedly connected at their upper ends to the supporting structure, means at the lower ends of the chute for vertically adjusting the same, the upper ends of the inclined chute underlying the lower ends of the uppermost chute, a retarding chute extending laterally and upwardly from the upper portion of each of the aforementioned chutes for deflecting the material for the next uppermost chute against the chute to which the retarding unit is attached, said retarding chutes being oppositely inclined from the supporting chutes and rigidly secured there-



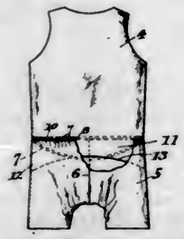
on and further having their lower ends communicating with the supporting chutes in spaced relation thereto, each of the hingedly mounted chutes being formed in its bottom with an opening through which the impurities of the coal pass, the upper longitudinal edge of the opening being slightly curved upwardly, a downwardly extending deflecting lip formed on the opposite longitudinal edge of each opening, and an inclined trough for disposition beneath each of the openings.

1,787,097. SHADE AND CURTAIN FIXTURE. ADA B. WENDEL, Smithland, Iowa. Filed Mar. 6, 1928. Serial No. 259,485. 1 Claim. (Cl. 156—23.)



A curtain or drapery fixture comprising a member clamped on and extending transversely of a window frame and slightly spaced from the front thereof, and a curtain or drapery rod extending in parallel relation to and outwardly of said member, said rod having laterally turned terminals directed toward the window frame and having notches in their lower edges receiving the upper edge portions of the said member, the end faces of said terminals bearing against the said front face of the window frame whereby to maintain said rod against sagging, the portions of said terminals between the notches and said end faces serving to brace the clamped member against twisting and sagging under weight imposed thereupon.

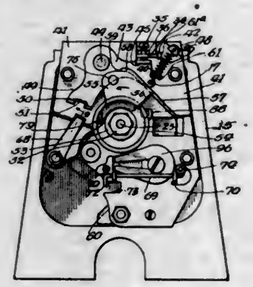
1,787,098. UNION SUIT. NATHAN WOLFF, New York, N. Y. Filed Mar. 6, 1929. Serial No. 344,780. 1 Claim. (Cl. 2—78.)



A union suit comprising front, back and posterior sections, the back section terminating above the crotch por-

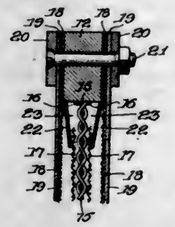
tion of the front section and stitched along side edges of the front section for the full depth of the back section, the posterior section overlapping the lower portion of the back section and stitched along its side edges to side edges of the front section and the overlapped portion of the back section, a marginal casing being formed across the upper end of the posterior section for the full width thereof, and an elastic band within said casing stretched and having its ends secured at the ends of the casing, said casing being secured at its ends with seams connecting the front and back sections and free from the back section for the remainder of its length.

1,787,099. CHECK-CONTROLLED MECHANISM. ALFRED D. ANTOINE, Chicago, Ill., assignor to Advance Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 5, 1927. Serial No. 210,768. 11 Claims. (Cl. 194—102.)



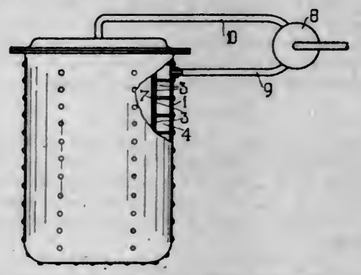
1. Check controlled mechanism embodying a check carrier having a check seat, a pivotally mounted detector member, a portion of said member being disposed adjacent the path of movement of the check in the check seat to be engaged and shifted by the check, a pivotally mounted locking member for controlling the actuation of the check carrier, said members being separate from each other and both fixed against bodily movement, and an adjustable element carried by one of said members and engaging the other member for varying the fixed relative position of the members, said locking member being responsive in its operation to the operation of the said detector member.

1,787,100. FILTER-LEAF CONSTRUCTION. WILLIAM H. BACHELDOR, Wood River, Ill., assignor to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed Aug. 5, 1929. Serial No. 383,635. 7 Claims. (Cl. 210—195.)



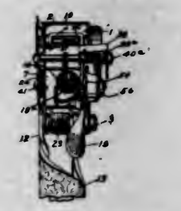
1. A filter press leaf comprising an imperforate frame provided with an enlarged fenestral opening, perforate supporting means carried in said opening, filter media carried by said frame and positioned outside of and adjacent to said perforate supporting means, means positioned adjacent said frame and within the opening therein for spacing a portion of said filter media from said perforate supporting means and thereby forming a continuous liquid channel along said frame and between said perforate supporting means and said filter media, and a liquid outlet conduit communicating with said channel.

1,787,101. LINING VESSELS FOR CARRYING OUT OPERATIONS WITH LIQUIDS AND THE LIKE. FRANCIS HERBERT BRAMWELL, London, England, assignor to Imperial Chemical Industries Limited, London, England, a British Company. Filed Jan. 10, 1930, Serial No. 419,917, and in Great Britain Jan. 9, 1929. 7 Claims. (Cl. 220—63.)



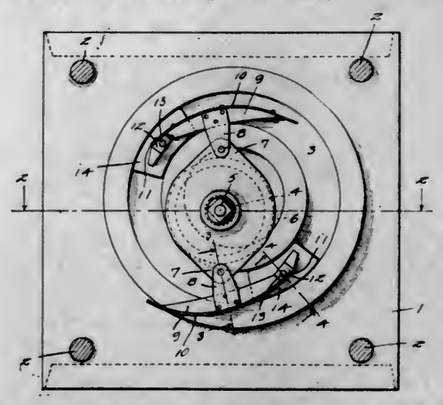
7. A container for corrosive substances, said container having spaced walls, the inner wall being perforated and having a non-corrodible lining.

1,787,102. KNOTTER. BRITTON E. BYRD, Gastonia, N. C., assignor to Mill Devices Company, Inc., Gastonia, N. C., a Corporation of North Carolina. Filed Feb. 11, 1928. Serial No. 253,595. 13 Claims. (Cl. 289—3.)



8. In a knot tying device, in combination, a tying bill mechanism having cutting and clamping means, and means for positioning a plurality of threads to be acted upon by the tying bill mechanism to produce a knot, said means including mechanism for moving the threads into crossed relation at one side of the bill, and means at the other side for moving the threads into double crossed relation.

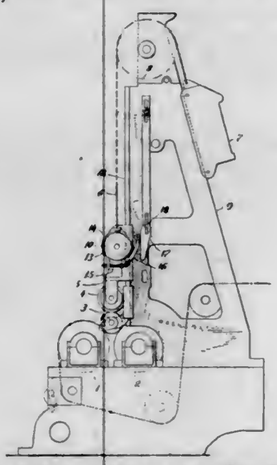
1,787,103. FLUID-POWER WHEEL. WILLIAM R. CALDWELL, Keyser, W. Va. Filed Mar. 19, 1929. Serial No. 348,238. 2 Claims. (Cl. 170—149.)



1. A power wheel, comprising a frame, a hub body rotatably mounted in the frame and carrying at each end

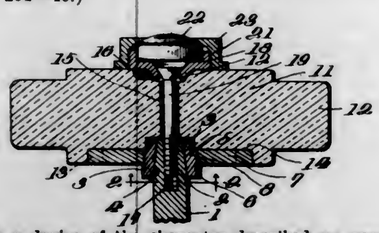
radially directed arms, arcuate blade members each extending longitudinally of the hub, means at each end edge of each blade for pivotally connecting the same to an arm, said means comprising an inwardly extending link attached to the blade adjacent the center thereof, a reinforcing rib extending transversely of the rear edge of each blade, means for reinforcing each end edge of the blade, a block pivotally attached to each end of each reinforcing rib, and an annular guide mounted on the opposite end portions of the frame arranged eccentrically of the pivotal center of and at each end of the hub and continuously controlling the adjacent blocks.

1,787,104. VARIABLE-BRAKE-RESISTANCE DEVICE FOR WINDING MACHINES. JAMES A. CAMERON, Brooklyn, N. Y., assignor to Cameron Machine Company, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 18, 1928. Serial No. 313,276. 10 Claims. (Cl. 242—66.)



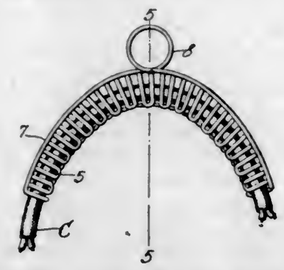
1. In a winding machine, a member displaceable by accumulation of wound material, and means to resist the displacement of said member including: a rotatable transmission element that rotates in response to the displacement of the member, a variable brake to oppose rotation of the element, and means to automatically vary the pressure of the brake as movement of the displaceable member occurs.

1,787,105. HANDLE. EDWARD L. DELANY, Brooklyn, N. Y. Filed Apr. 11, 1927. Serial No. 182,917. 5 Claims. (Cl. 251—45.)



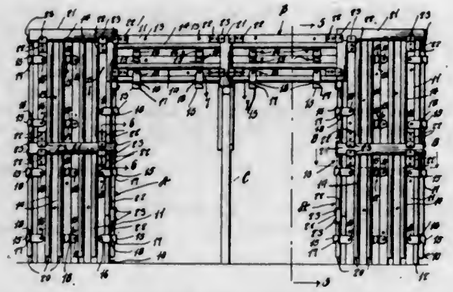
2. In a device of the character described an operating stem having its outer end tapering and of an angular form, a bushing tightly fitting the outer end of the operating stem, and having an angular exterior surface, and an attaching plate fitting said angular portion of the bushing and held against downward movement thereon, a composition handle having a recess to receive the attaching plate, and a clamping screw passing through the handle and spaced therefrom and screwed into the operating stem, and clamping the attaching plate in the recess in the handle.

1,787,106. CORD HANGER. CAROLYN MCFALL GLAZENER, Hendersonville, N. C. Filed Mar. 26, 1927. Serial No. 178,701. 3 Claims. (Cl. 248—31.)



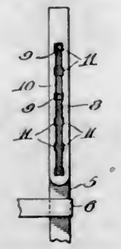
2. A cord hanger including a single length of resilient wire provided with a series of regularly spaced bends, said series being extended throughout the length of the hanger and forming a freely flexible tube, the ends of the wire being extended longitudinally and outside of said tube from one end to the other thereof continuously, and a support engaging element integral with said ends of the wire at the center of the tube, said wire being fixedly attached to each of the bends forming the tube to hold them properly spaced and to reinforce the tube.

1,787,107. FORM FOR MOLDING CONCRETE AND CEMENT. EDWARD F. HARPER, Philadelphia, Pa. Filed May 17, 1928. Serial No. 278,485. 4 Claims. (Cl. 25—131.)



1. A form of the class described comprising units, latch means securing the units together, said units having reenforcing members terminating short of their ends to provide shoulders, battens for securing the sections together end to end engaging said shoulders, and brackets on the sections engaging said battens.

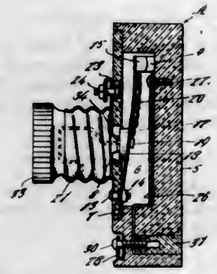
1,787,108. SECURING MEANS FOR LAPPED ELEMENTS. EVAN C. HARTER, Sturgis, Mich. Filed Aug. 22, 1929. Serial No. 387,619. 1 Claim. (Cl. 155—88.)



In an adjustable chair, in combination, an element to be secured having a hole therethrough, an element in

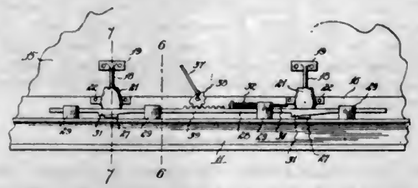
lapped relation with the first mentioned element, the second mentioned element having a slot and lateral enlargements of said slot at spaced locations, said slot and its enlargements extending completely through the second mentioned element, a fastening bolt, said bolt comprising a substantially polygonal portion adapted to engage and substantially completely fill portions of the slot and the adjacent enlargements, a head extending from said substantially polygonal portion and overlapping and contacting the second mentioned element, a shank extending from the substantially polygonal portion at the side thereof opposite to the head, said shank extending through said hole, and a fastening member adjustably disposed on said shank and engageable against the first mentioned element.

1,787,109. SECONDARY CONTACT SPRING FOR PLUG CUT-OUTS. EDGAR LEE HAWLEY, Atlanta, Ga. Filed July 6, 1929. Serial No. 376,449. 1 Claim. (Cl. 200—119.)



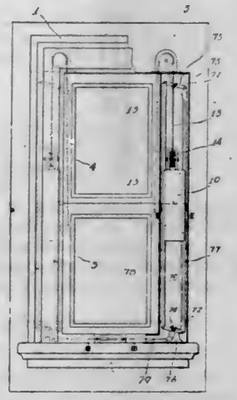
A plug cut out comprising a fuse box having a recess and a fixed contact in the recess, a cover for said recess having a substantially small central aperture, a flat spring disposed upon the inner face of said cover and extending diametrically of the central aperture, said spring having one end secured to the cover and being flexed to normally lie flat against the cover, a pair of contacts mounted on said spring and extending oppositely therefrom, one of said contacts being positioned adjacent the free terminal of the spring for engagement with the fixed contact of the recess when the spring is flexed outwardly from the cover, and the other contact being positioned intermediate the ends of the spring and normally extending through the aperture of the cover for engagement with a fuse, a flexible conductor electrically connecting the said contact of the spring, a fuse socket mounted on the outer face of said cover and over the central aperture thereof, said socket having its bottom end open to expose the said aperture and said fuse-contact member of the spring, and a connector on said socket for an electrical conductor.

1,787,110. ANTITHEFT LOCK FOR AUTOMOBILES. EDWARD M. HEIDORN, Hillside, Ill. Filed Aug. 8, 1929. Serial No. 384,311. 6 Claims. (Cl. 292—27.)



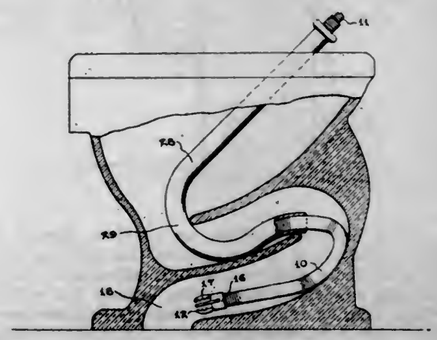
1. A hood locking mechanism for automobiles comprising depending bolts secured to the cover sections forming the hood, clutches secured to the chassis and having jaws adapted to engage said bolts, slidable plates engaging the jaws for moving them in and out of locked engagement with the bolts, and means for moving the plates operated from within the body of the automobile.

1,787,111. SASH BALANCE. KITARO KATOW, Tokyo, Japan. Original application filed June 25, 1927, Serial No. 201,455. Divided and this application filed Jan. 18, 1928. Serial No. 247,651. 2 Claims. (Cl. 16—194.)



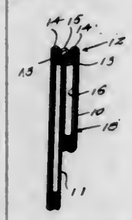
1. A window comprising a frame having a side chamber, a pair of sashes vertically slidable in said frame, a weighted member vertically movable within a side chamber in said frame, a roller carried on said weighted member, a pair of guide rollers mounted above said side chamber and having fixed bearings, a sash-cord secured to one of said sashes and extending over one of said stationary rollers, engaging under said weight carried roller and over the other stationary roller and having the other end secured to the other sash, thus suspending said weighted member therefrom through said weight carried roller, a pair of vertical link rods in said side chamber for guiding the vertical movements of said weighted member therebetween, and means for moving said link rods toward and from each other for applying braking action on or releasing said weighted member.

1,787,112. CLOSET AUGER AND STOPPAGE GRIP. RANDALL A. KING, Pueblo, Colo. Filed Mar. 8, 1928. Serial No. 260,086. 3 Claims. (Cl. 137—70.)



1. A device for the purpose indicated comprising a staff, a stem movable longitudinally of the staff, a head carried at one end of the staff and provided with a plurality of hingedly mounted jaws, operative connections between the stem and jaws to effect opening and closing movement of the same upon the stem relative to the staff, and a handle having operative connections with the stem remote from the head for imparting longitudinal movement to the same and operative connections with the staff for imparting angular or turning movement to the same.

1,787,113. COLLAR AND CUFF. ELSIE C. LARSON, Nevada, Iowa. Filed Oct. 2, 1928. Serial No. 309,779. 3 Claims. (Cl. 2—123.)



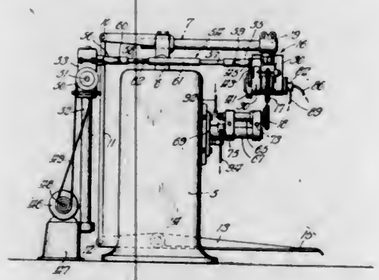
1. A collar and cuff construction of the folded type comprising plies secured together along their marginal edges, one of the plies having a box-plait formed therein at the fold of the collar and cuff whereby to produce a multiplicity of exposed folded edges at such fold.

1,787,114. NUT-LOCKING DEVICE. WILLIAM ARTHUR LELEAN, Eltham, London, and DERRICK CHARLES BROWN, Kenton, England. Filed Apr. 28, 1930, Serial No. 448,024, and in Great Britain Apr. 11, 1929. 2 Claims. (Cl. 151—5.)



2. A locking member according to the preceding claim having a plurality of diametrical recesses, holes, or slots, for the split pin or the like, the said holes, recesses or slots being unequally spaced for the purpose specified.

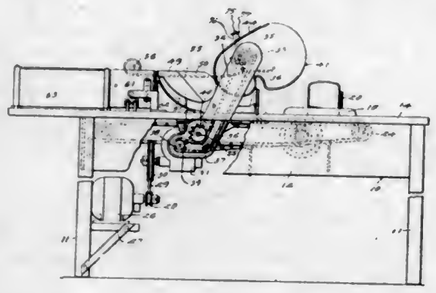
1,787,115. WELDING MACHINE. GEORGE S. LEWIS, Oak Park, Ill. Filed May 18, 1928. Serial No. 278,788. 8 Claims. (Cl. 219—4.)



4. In a welding machine, an electrode formed of a shaft containing a recess opening through one end of said shaft and a disk portion surrounding said shaft and internally recessed, a journalling support for said electrode, a plug on said support and opposing the recessed end of said shaft, said plug containing separate passages, and a pipe communicating with one of said passages and extending into the recess in said shaft in spaced relation to the wall of said recess, the wall of the recess in said shaft being ported for communication of the recess in said shaft with the recess in said disk portion.

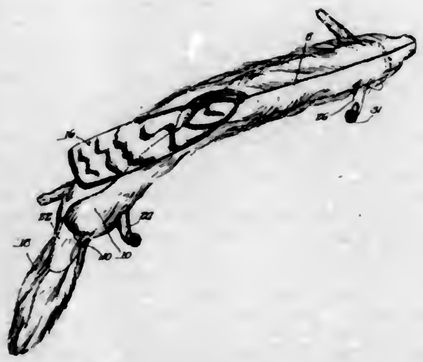
1,787,116. SEMIAUTOMATIC WRAPPING MACHINE. FRED MARASSO, Joliet, Ill. Filed July 12, 1928. Serial No. 292,091. 3 Claims. (Cl. 93—2.)

1. A machine of the class described having a rotatable folder, said folder having portions to effect the folding of separate folds and a slot between said portions for the purpose specified, and a coacting folder, the rotatable folder at a portion thereof being movable laterally opposite the coacting folder, said coacting folder having a



portion functioning dually as a folder member and to accommodate the aforesaid movement of the rotatable folder laterally opposite the coacting folder, and said coacting folder also having a folder portion spaced below the deflected folder portion.

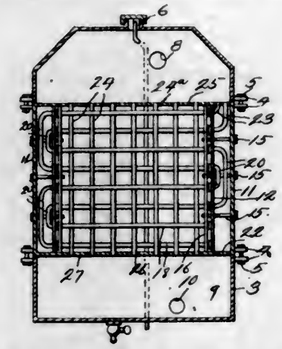
1,787,117. WEARING APPAREL. FLOY C. MERRILIES, Chicago, Ill. Filed Aug. 29, 1930. Serial No. 478,582. 6 Claims. (Cl. 2—65.)



1. An imitation animal neck scarf formed of yarn knitted or crocheted to provide a relatively narrow, tubular body of sufficient length to embrace the neck and shoulders of the wearer, and a separable filler comprising a body of light, warm material enclosed in an envelope, said filler being positioned within the tubular fabric body, said fabric body having a slit or opening to permit the removal of said filler, whereby said fabric body may be washed for cleaning, and means for closing said slit, said filler when positioned within the tubular body being constructed and arranged to give warmth and characteristic shape to the scarf.

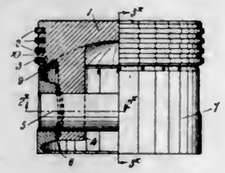
1,787,118. RADIATOR. PENDLETON W. MURRAY, Omaha, Nebr. Filed July 9, 1929. Serial No. 376,976. 3 Claims. (Cl. 257—131.)

1. A radiator comprising an upper section having a chamber therein into which water enters, a lower section having a chamber therein into which water enters and from which water is discharged, an intermediate section, said intermediate section comprising side chambered members, horizontal tubes carried by the intermediate section, vertical tubes carried by the intermediate section and communicating with the chambers of the upper and lower sections, U couplings connecting the ends of adjacent horizontal tubes thereby forming zig zag conduits, the upper horizontal tubes having one of their ends con-



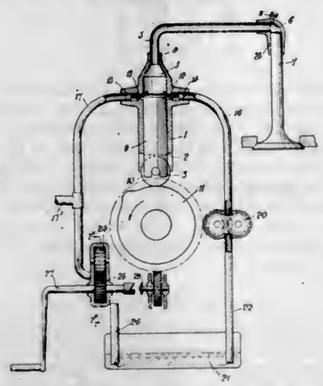
nected to the upper section, the ends of the horizontal lower tubes discharging into the lower section and said vertical tubes interwoven in the horizontal tubes and forming communication between the chambers of the upper and lower sections.

1,787,119. PISTON. WARREN NOBLE, Detroit, Mich. Filed June 17, 1927. Serial No. 199,472. 10 Claims. (Cl. 74—108.)



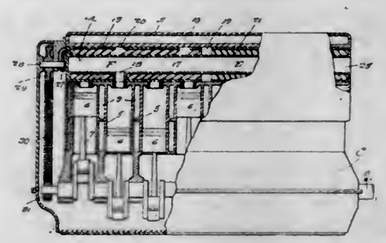
1. In a piston, a head and a skirt in spaced relation, fluid heat insulating means between the lower edge of said head and the upper edge of said piston and oil passages in said skirt below said insulating means, the lower edge of said head acting as an abutment for the upper edge of said skirt whereby rocking is definitely restricted.

1,787,120. HYDRAULIC-VALVE-OPERATING MECHANISM. WARREN NOBLE, Detroit, Mich. Filed June 12, 1928. Serial No. 284,774. 15 Claims. (Cl. 123—90.)



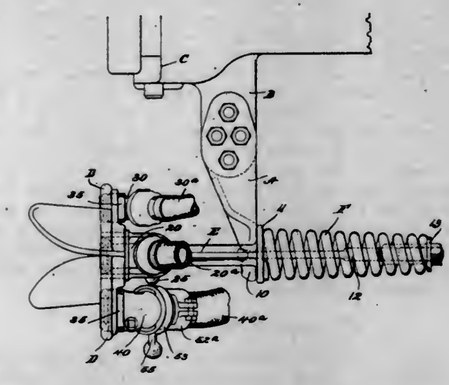
1. In combination, an engine, a hydraulic valve system in said engine, a fluid reservoir, a pipe line from said reservoir to said system having a non-return valve therein, and means for unseating said valve to admit fluid from said reservoir to said system prior to the starting of said engine.

1,787,121. INTERNAL-COMBUSTION ENGINE. NICHOLAS A. B. ODOM, San Antonio, Tex. Filed July 6, 1929. Serial No. 376,447. 2 Claims. (Cl. 123—190.)



1. In an internal combustion engine, a hollow rotary tubular valve closed at one end and opened at its opposite end for communication with the atmosphere, said valve comprising spaced inner and outer concentric walls, the space between said walls constituting a longitudinally extending intake gas passage closed at opposite ends of the valve, the outer wall of said valve being provided with an annular intake port intermediate the ends of the valve for communication with said passage, said outer wall being further provided with an exhaust port for each cylinder of the internal combustion engine, said inner walls being provided with an exhaust port for each cylinder, said exhaust port extending through said passage and opening outwardly of said outer wall for communication with the cylinders, a spiral rib formed on the inner face of said outer wall extending from one side of said single intake port to one closed end of said passage, a second spiral rib extending from the other side of said single intake port to the other closed end of said passage, said spiral ribs having their outer edges in spaced relation to said inner wall of the valve.

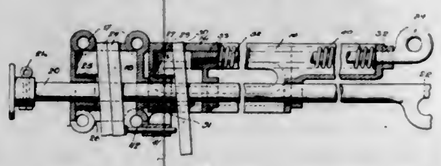
1,787,122. AUTOMATIC CONNECTER. JOSEPH ROBINSON, New York, N. Y. Filed July 29, 1921, Serial No. 488,373. Renewed Apr. 18, 1929. 4 Claims. (Cl. 285—24.)



1. In an automatic train pipe connecter, a coupling head having an opening therethrough, there being a shoulder formed adjacent the front end of the opening, a train pipe hose, a nipple rotatably connected to said hose and arranged in said opening and having its front end spaced from said shoulder, cooperating means on the nipple and

head for removably locking the nipple in said opening, a gasket mounted in said opening in front of said nipple, said gasket having a portion resting against the end of the nipple and another portion resting against said shoulder and extending slightly beyond the front face of the head, said gasket being shaped to expand under fluid pressure and hold said nipple in locked position and to seal the joint between the nipple and head.

1,787,123. SLACK ADJUSTER. WILLIAM H. SAUVAGE, New York, N. Y., assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Filed Feb. 9, 1925. Serial No. 7,955. 4 Claims. (Cl. 188—199.)



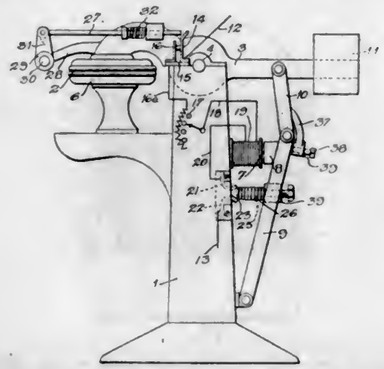
1. In an apparatus of the character described, in combination, a slack adjuster casing supported from the car body, a second casing movable relatively with respect thereto, an adjusting rod connected with the brake actuating mechanism, a swing adapted to be compressed on excess travel of the brake rigging, a take up rod connected with the upper end of the dead lever adapted to be actuated on release of the brakes after excess travel has occurred, flexible means associated with each of said connections adapted to permit relative movement of the truck with respect to the adjuster, and means whereby both the temporary and permanent take up and holding means may be released by a single operation when it is desired to replace worn parts.

1,787,124. METHOD FOR MAKING PURE ALUMINA BY ELECTROTHERMAL REDUCTION OF THE IMPURITIES IN ALUMINA-CONTAINING RAW MATERIALS. HANS SIEGENS, Horrem, near Cologne, Germany. Filed Dec. 22, 1927, Serial No. 242,001, and in Germany June 1, 1926. 8 Claims. Cl. 23—142.)

1. A method for making pure alumina by electrothermal reduction of the impurities in alumina-containing raw materials comprising the steps of charging the furnace at the beginning of the process with a raw material containing less carbon admixed than is necessary for the reduction of the impurities, then charging with mixtures of raw material and carbon containing increasing amounts of carbon, until the theoretical amount of carbon in the reaction mixture is reached, finishing the charging process with mixtures of raw material and carbon in such amounts that an excess of carbon is present in the reaction mixture, and tapping the liquid pure alumina at a moment when still such an amount of free carbon is present in the melt that a sample drawn is still light grey but not white and carbon monoxide is developed by the melt, thereby producing during the last period of the heating process a non-oxidizing atmosphere directly above the surface of the melt.

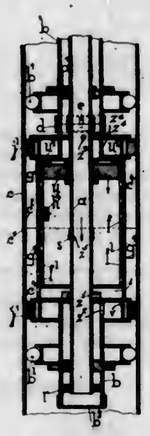
1,787,125. PRESS. ARTHUR E. SNOW, Cincinnati, Ohio, assignor, by mesne assignments, to The Daly Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 29, 1926. Serial No. 98,093. 4 Claims. (Cl. 68—9.)

1. A pressing machine comprising a bed, a movable head, toggle means operatively connected to the head and to a relatively fixed part and arranged to straighten with the closing of the head, manual means for closing the head, and means for affecting the pressing operation effective at substantially the knuckle of the toggle means, comprising magnetically permeable material on said knuckle, an electro-magnet on said frame, said electro-magnetic means being so spaced from said knuckle as to



become effective when the toggle means have not quite straightened out so that the force exerted by the leverage of the toggle means and the magnetic attraction of the knuckle causes a relatively great proportionate increase in pressure as the head approaches the bed.

1,787,126. DEVICE FOR COATING THE INTERIOR OF WALLS OF PIPES OR CONDUITS. JOHANN STEINNES, Oberhausen, Germany. Filed Feb. 26, 1927, Serial No. 171,308, and in Germany Mar. 1, 1926. 13 Claims. (Cl. 91—43.)

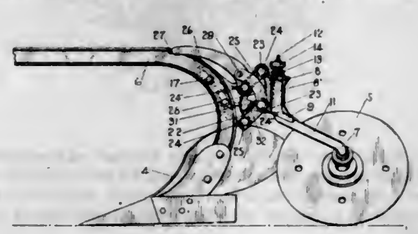


1. A device for coating the interior surfaces of pipes or conduits with paint, insulating material, corrosive substance or the like, comprising in combination. a vessel provided with outlet orifices and adapted to be inserted containing said coating material, means controlled from an end of the pipe for regulating the outlet orifices in said vessel and for ejecting the coating material from the latter, and a piston adapted to be moved from the end of the pipe longitudinally of the vessel to eject the coating material therefrom.

1,787,127. PLOW. CARL G. STRANDLUND, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Nov. 12, 1928. Serial No. 318,630. 19 Claims. (Cl. 97—127.)

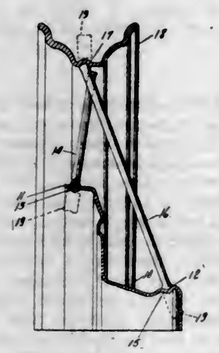
1. In a plowing implement, the combination of a supporting member, a plow carried thereby, a bracket having

vertically spaced slots therein, bolts passing through said slots and through said supporting member for securing said bracket thereto, serrations on said bracket adjacent to said slots and cooperating with said bolts for holding said bracket in different vertical adjustments relatively to said supporting member, upper and lower horizontal pivot bosses on said bracket, a rear furrow wheel, an axle therefor, a wheel mounting member in which said axle is swiveled for castering movement, upper and lower horizontal pivot bosses on said wheel mounting member, parallel link mechanism for movably connecting said wheel mounting member with said bracket comprising upper and lower U-shaped links having their side pivot portions passing through said upper and lower pivot bosses, up-



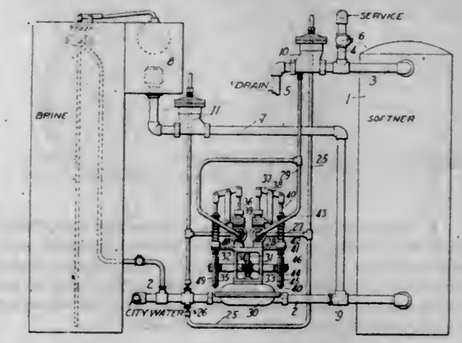
per and lower link bars mounted on the projecting ends of said side pivot portions, lifting mechanism comprising a lifting lever pivotally mounted on the front pivot portion of said upper U-shaped link, a lifting link pivotally mounted on the rear pivot portion of said lower U-shaped link, a pivot connecting said lifting lever and lifting link in a toggle joint adapted to pass over center beyond a straight line extending between the pivot centers of said lifting link and lifting lever when said lever is moved rearwardly in a lifting operation, and stops on said bracket and on said wheel mounting member adapted to contact for predetermining the lower position of said plow relatively to said rear furrow wheel when said lever is moved forwardly in a lowering operation.

1,787,128. METHOD OF MAKING WIRE WHEELS. JOSEPH G. SWAIN, Akron, Ohio, assignor to The Firestone Steel Products Company, Akron, Ohio, a Corporation of Ohio. Filed Jan. 23, 1928. Serial No. 248,647. 6 Claims. (Cl. 29—174.)



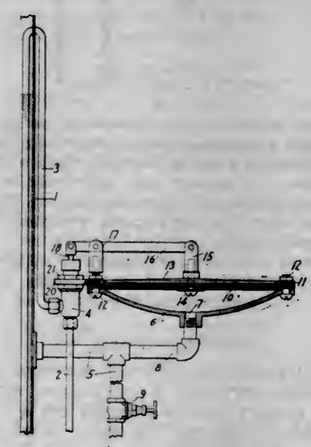
1. The method of manufacturing compression spoke wire wheels comprising pressing spaced external indentations about the inner and outer ends of a hub, pressing a series of circumferentially spaced indentations about the radially inner surface of an oversized rim, forming a series of straight outer spokes with upset ends conforming to the contour of the indentations in the hub and rim, forming a series of double inner spokes of a single wire bent to substantially V-shape, upsetting the vertices and the ends of said double spokes to conform to the contours of the indentations in the inner end of the hub and in the rim, respectively, positioning the spoke ends and vertices in alignment with their respective indentations in the hub and rim, contracting the rim onto the spokes to compress the latter against the hub, applying electrical welding platens to the rim and hub in juxtaposition to the ends of a spoke, and welding the parts together under heat and pressure to produce an integral, unitary structure free from unequal stresses.

1,787,129. WATER-SOFTENING APPARATUS. EDWARD T. TURNER, Dayton, Ohio. Filed Aug. 31, 1925. Serial No. 53,524. 8 Claims. (Cl. 210—24.)



1. In an apparatus of the character described, a container, a pipe for supplying water to said container, other pipes connected with said container, separate fluid pressure operated valves interposed in said other pipes, connections between said supply pipe and said valves to normally subject the same to pressure, pilot valves to control the pressure on the respective fluid operated valves, a motor operated by the water delivered to said container, and means controlled by said motor for opening and closing said pilot valves.

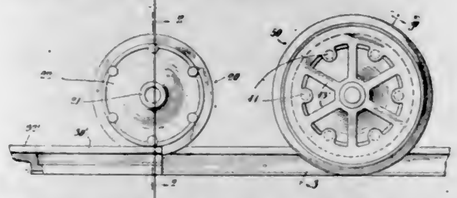
1,787,130. LEVEL-CONTROLLING DEVICE FOR LIQUID CONTAINERS. EDWARD T. TURNER, Dayton, Ohio. Filed Jan. 3, 1927. Serial No. 158,711. 8 Claims. (Cl. 137—68.)



1. The combination with a container for a liquid, a supply pipe connected with said container, and a valve to

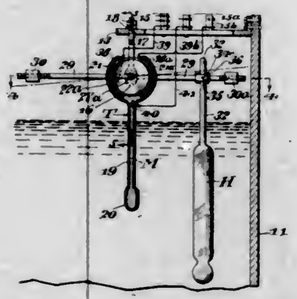
control the flow of liquid through said supply pipe, of a concave receptacle having open communication with said container at a point below the normal level of the liquid in said container, a diaphragm extending across the concave side of said receptacle, a clamping ring resting upon said diaphragm, means for securing said ring to said receptacle to clamp the edge of said diaphragm between the ring and said receptacle, said ring having a part projecting therefrom and adapted to engage said valve and support the same in fixed relation to said receptacle, and an operative connection between said diaphragm and said valve.

1,787,131. VEHICLE CONSTRUCTION. LEON UNDERWOOD, New York, N. Y. Filed Jan. 5, 1928. Serial No. 244,608. 6 Claims. (Cl. 295—8.5.)



1. A wheel for railway vehicles and the like comprising a main wheel body and a peripheral portion provided with inner and outer rail-engaging treads and an intermediate circumferentially disposed rib, in combination with a removable auxiliary road wheel and associated tire engaging the outer one of said rail-engaging treads.

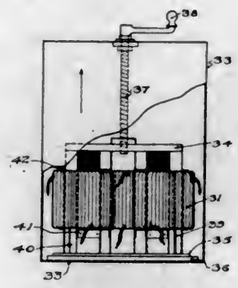
1,787,132. GRAVITY-INDICATING SYSTEM. ALLEN A. VAN OSDALE, Houston, Tex., assignor to The Brown Instrument Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 22, 1926. Serial No. 111,081. 2 Claims. (Cl. 177—351.)



2. Apparatus responsive to changes in the specific gravity of a liquid comprising in combination a pivoted receptacle comprising a chamber partially filled with mercury and extending into contact with said liquid, a conductor carried by said receptacle and dipping into the mercury to an extent affected by the thermal expansion of the mercury and the angular position of said receptacle, and means connected to said receptacle and subjected to the flotative action of said liquid for adjusting the angular position of said receptacle as the density of said liquid changes.

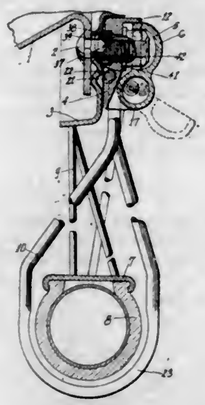
1,787,133. MEANS FOR REGULATING THE SPEED OF INDUCTION MOTORS. JOHN WILSON, Chicago, Ill., assignor to Ilg Electric Ventilating Co., a Corporation of Louisiana. Filed Mar. 20, 1925. Serial No. 16,968. 2 Claims. (Cl. 172—274.)

1. A regulator for ventilating fan motors of the squirrel cage type, comprising a housing having a base, three tubes mounted on said base and spaced substantially equi-distant from each other, a coil surrounding and carried by each of said tubes, above said base, to minimize eddy-currents and afford ventilation, a supporting member above said



coils, three cores secured to said member and extending into said tubes and a shaft secured to said support and passing up through said casing whereby said cores may be raised and lowered simultaneously from outside said casing.

1,787,134. LOCKING DEVICE FOR AUTOMOTIVE EQUIPMENT. SOLOMON WISE, Cincinnati, Ohio. Filed May 22, 1928. Serial No. 279,690. 13 Claims. (Cl. 70—90.)

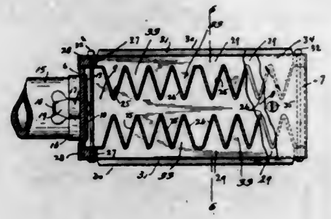


10. A locking device comprising a body plate perforated to receive a bolt, a bearing surface about said perforation, a nut revolvably mounted to exert pressure on said bearing surface, said body plate enlarged at one side to form a barrel section with a bore therein, said barrel section slotted intermediate its ends, a lock cover comprising a cover for said nut and a barrel section, said second barrel section mounted within the slot in said first barrel section, and locking means in the bore of said composite barrel section whereby said lock cover is pivoted upon said body plate and whereby it may be locked thereagainst, said locking means comprising a divided plug one portion of which is fastened to said body plate and the other portion of which is fastened to said lock cover, and means for locking said plug portions against relative rotation.

1,787,135. AIR FILTER. EUGENE L. BARNES, Buffalo, N. Y. Filed Apr. 22, 1929. Serial No. 357,040. 4 Claims. (Cl. 183—71.)

1. A filtering device comprising an open body frame, the body frame being provided with side walls, a top, and a

bottom, the top and bottom of the frame being formed with corrugated edges, an open retaining frame at each side of the body, having corrugated edges for co-operative engagement with the corrugated edges of the top and bot-



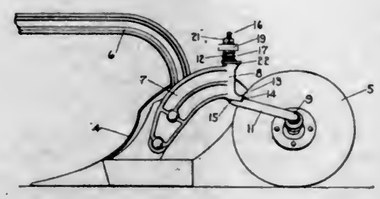
tom of the body frame, a filtering unit secured at each side of the body and held in place between the corrugated edges of the co-acting body frame and retaining frame, and means for connecting the filter to a source of suction.

1,787,136. PICK FOR STRINGED MUSICAL INSTRUMENTS. GEORGE D. BEAUCHAMP, Los Angeles, Calif. Filed July 30, 1928. Serial No. 296,192. 5 Claims. (Cl. 84—322.)



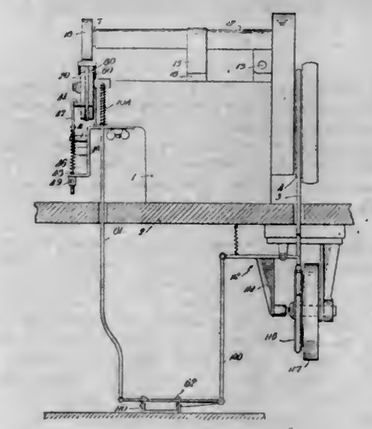
1. A pick for stringed musical instruments comprising a base member, terminating in a tip adapted for string engagement, said base member being provided with a perforation.

1,787,137. PLOW. THEOPHILUS BROWN, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Nov. 12, 1928. Serial No. 318,653. 10 Claims. (Cl. 97—127.)



1. In a plowing implement, the combination of a supporting member, a plow carried thereby, a furrow wheel in rear of said plow, a bracket carried by said supporting member having a substantially vertical bearing boss, a swinging axle for said furrow wheel comprising a forwardly and upwardly extending arm portion and a substantially vertical pivot standard at its front end, said pivot standard being mounted for rotative and vertical sliding movement in said bearing boss and having its upper end projecting above the same, the forwardly extending arm portion of said axle having a rounded upper surface, a lug projecting from the lower end of said bracket and having a concave under surface extending along and embracing the rounded upper surface of said arm portion, a spring surrounding the upper end of said pivot standard and bearing on said boss, a collar on said pivot standard engaging with the upper end of said spring, and a nut screwing down over said pivot standard for adjusting the pressure of said spring through said collar.

1,787,138. TAPE-APPLYING APPARATUS. LELAND K. BUTLER, Manchester, N. H., assignor, by mesne assignments, to Excel Taping Machine Co., Lynn, Mass., a Corporation of Massachusetts. Filed Jan. 10, 1929. Serial No. 331,550. 21 Claims. (Cl. 154—42.)



9. A machine of the class described comprising a pair of juxtaposed feed rolls, mechanism to drive the same at substantially the same peripheral speed whereby sheet material may be fed between the same, control means movable in opposite directions to initiate and stop operation of the driving mechanism, and a cutter adjoining the bite of the rolls automatically operate when the control means receives one of said movements.

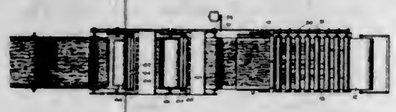
1,787,139. PROCESS OF FORMING IRON FOILS. JOHN R. CAIN, Washington, D. C., assignor to The Richardson Company, Lockland, Ohio, a Corporation of Ohio. Filed June 11, 1926. Serial No. 115,405. 1 Claim. (Cl. 204—1.)

The process of producing iron foil which consists in electro-depositing iron upon a base of bright, clean copper, and then removing the copper electrolytically in a cyanide solution resulting in a foil having a polished appearance.

1,787,140. PROCESS AND APPARATUS FOR THE PRODUCTION OF FELT-BASE FLOOR COVERING. JOHN B. CAMPBELL, Salem, N. J., assignor, by mesne assignments, to Carthage Mills Incorporated, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 17, 1925. Serial No. 69,610. 13 Claims. (Cl. 91—43.)

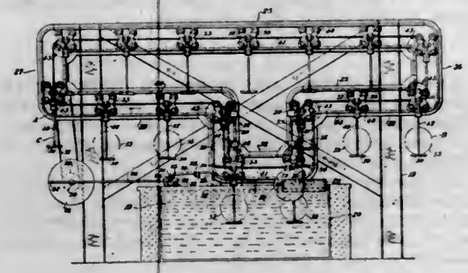
1. In an apparatus of the class described, means for feeding a web, means for producing a field upon the surface of the web comprising a plurality of applicator units

interspaced in the direction of travel of said web, each associated with a predetermined character of coating material and each unit comprising a reservoir of coating substance and a plurality of elements which control the application of the coating material associated with its unit to the surface to be coated, said elements being shiftable relatively to each other and transversely of the direction of movement of the web, whereby upon the movement of the web, the coating material associated with each unit, will be deposited thereby along a plurality of lines, each extending generally longitudinally of the web, with the lines of deposit positioned laterally of each other, the relative position of said lines varying with the relative position of the elements and means for shifting said elements relatively of each other as the elements are applying the coating material to the surface being coated.



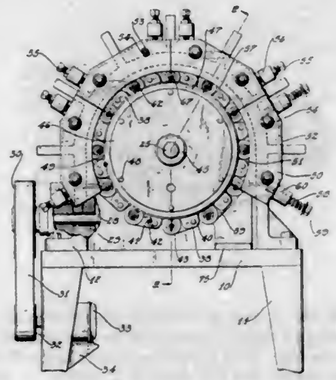
12. In an apparatus of the class described, means for feeding a web, means for producing a field upon the surface of the web comprising a plurality of applicator units arranged in back of each other, and each associated with a predetermined character of coating material, and each unit including a plurality of elements which control the application of the coating material associated with its unit to the surface to be coated, said elements being shiftable relatively to each other and transversely of the direction of movement of the web, whereby upon the movement of the web, the coating material associated with each unit will be deposited thereby along a plurality of lines, each extending generally longitudinally of the web, with the lines of deposit positioned laterally of each other, the relative position of said lines varying with the relative position of the elements and means for shifting said elements relatively of each other as the elements are applying the coating material to the surface being coated.

1,787,141. GALVANIZING MACHINE. JOHN CARROLL, Wheeling, W. Va., assignor to The Reeves Manufacturing Company, Dover, Ohio, a Corporation of Ohio. Filed Nov. 2, 1928. Serial No. 316,754. 8 Claims. (Cl. 91—126.)



1. Apparatus for coating metal articles, including a pot of coating material, a carriage movable adjacent to the pot, a frame pivoted upon the carriage and adapted to carry a pail and the like, means for moving the carriage to pass the pail through the coating material, and a cam track for swinging the frame upon its pivot to tilt the pail in different directions as it passes through the coating material.

1,787,142. CRIMPING MACHINE. JOHN M. CHRISTMAN, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 25, 1927. Serial No. 235,481. 24 Claims. (Cl. 29—87.1.)

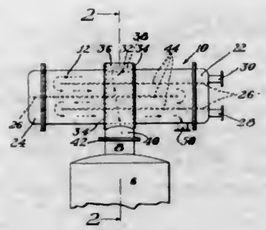


1. A crimping machine comprising a rotatable member, an arcuate member positioned eccentrically thereto, a work supporting head and work supporting devices on the head for rotatably supporting work pieces intermediate the rotatable member and the arcuate member.

1,787,143. SNAP FASTENER. CECIL F. CLARK and MABEL V. CLARK, Los Angeles, Calif. Filed July 1, 1927. Serial No. 202,808. 7 Claims. (Cl. 24—150.)

1. In a snap fastener including a plate, a pair of pins pivotally connected to one end of said plate, teeth on said plate against which said pins are adapted to rest to grip the cloth.

1,787,144. CONDENSER. RAYMOND R. COLLINS, Newton, Mass. Filed May 16, 1929. Serial No. 363,665. 7 Claims. (Cl. 257—28.)

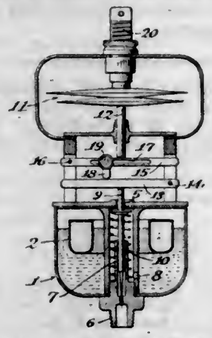


1. An overhead condenser for mounting on the top of a column having, in combination, a shell having a vapor inlet opening in the top, tubes in the shell, and a vapor conductor for conveying vapors from the column to the inlet opening, the conductor surrounding and being connected with the shell.

1,787,145. PROCESS OF VULCANIZING RUBBER TO LEATHER. LEON B. CONANT, Cambridge, Mass., assignor, by mesne assignments, to Standard Patent Process Corporation, a Corporation of Massachusetts. Filed July 22, 1927. Serial No. 207,819. 7 Claims. (Cl. 18—59.)

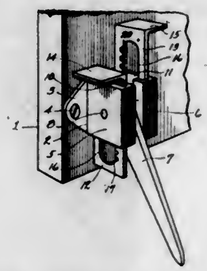
1. The process consisting in taking cement coated leather heated to adaptation for hot vulcanization and while at approximately the same temperature uniting and vulcanizing rubber composition thereto.

1,787,146. TEMPERATURE REGULATOR. GEORGE CRAIG, Los Angeles, Calif. Filed June 8, 1928. Serial No. 283,941. 5 Claims. (Cl. 236—99.)



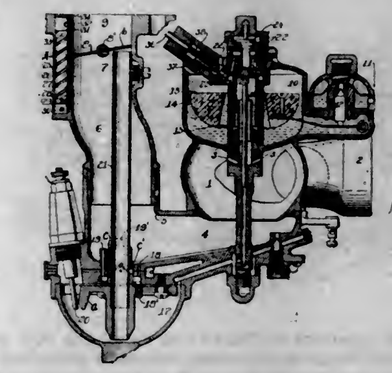
1. In a temperature regulator, a bowl adapted to contain liquid, said bowl having an outlet, a spring held needle valve controlling said outlet, a lever fulcrumed at one end and bearing on said needle valve, a second lever arranged above the first mentioned lever, which second mentioned lever is fulcrumed at one end, a pin adjustably mounted on the intermediate portion of the second mentioned lever and adapted to engage the intermediate portion of t' first mentioned lever, a push rod bearing on the intermediate portion of the second mentioned lever and a thermostat adapted to engage said push rod.

1,787,147. DOORCHECK. MERTON L. DODGE, Seattle, Wash. Filed Jan. 27, 1926. Serial No. 84,035. 3 Claims. (Cl. 292—338.)



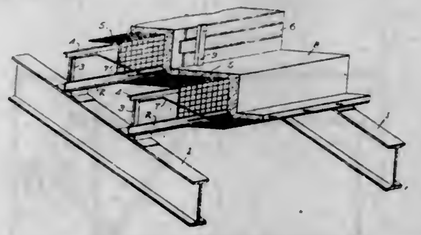
1. A door check comprising a mounting having means for attachment to a door and comprising spaced apart flanges with vertical guideways formed therein, a pivot pin extending between the said flanges, a sprag mounted at one end on said pin to swing between functional and non-functional positions, a gear on each side of the sprag concentric with said pivot pin, plates slidable in said guideways having rack teeth in mesh with said gears; one of said plates being operable downwardly to swing the sprag upwardly and the other plate being operable downwardly to swing the sprag to downward position and each of said levers being reset by actuation of the other lever.

1,787,148. CARBURETOR. ORVILLE H. ENSIGN, Pasadena, Calif., assignor to Ensign Carburetor Company, Los Angeles, Calif., a Corporation of California. Filed June 11, 1924. Serial No. 719,297. 10 Claims. (Cl. 261—69.)



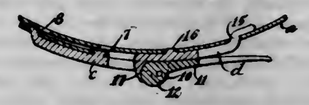
1. In combination with a carburetor, an economizer air bleed valve connected and adapted to be operated by predetermined manifold depression for controlling the admission of air into the fuel passage of the carburetor; a thermostat controlled valve positioned to be influenced by the temperature of the mixture to operatively connect and disconnect from the manifold the economizer valve at predetermined mixture temperatures.

1,787,149. CONCRETE STRUCTURE AND METHOD OF MAKING SAME. CHARLES R. GEISLER, Pittsburgh, Pa. Filed July 31, 1928. Serial No. 296,569. 8 Claims. (Cl. 72—1.)



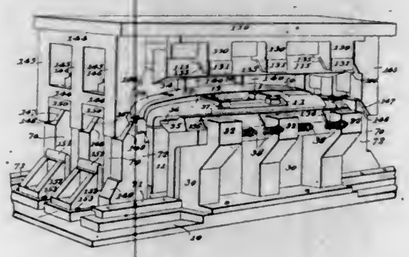
1. A monolithic floor structure having an interrupted surface consisting of risers and treads, comprising in combination, a plurality of spaced-apart girders sloping downwardly, transverse supports secured to said girders, and a reinforcing material consisting of wire mesh having a backing sheet on one side, secured to said transverse supports and bent to form treads and risers, the backing sheet of said reinforcing material constituting a form for the monolithic floor.

1,787,150. FLAGPOLE HOLDER. JOHN A. GEROW and ALFRED C. CANNON, El Segundo, Calif. Filed Aug. 11, 1928. Serial No. 298,914. 3 Claims. (Cl. 24—19.)



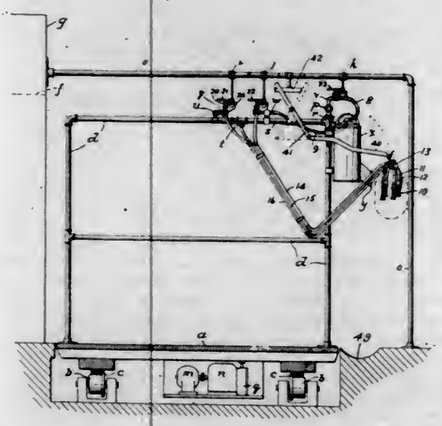
1. In a clamp, a plate having a curved head and an offset end for securing the plate to an object and a second plate provided with a cam-headed lever adapted to cooperate with the curved head of the first plate.

1,787,151. FLANGING BODY PANELS. OTTO J. GROEHN, Grosse Pointe Park, Mich., assignor to Hudson Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 12, 1929. Serial No. 339,364. 20 Claims. (Cl. 113—48.)



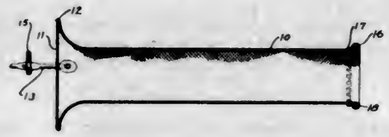
1. An apparatus for flanging an automobile body panel having a convex back portion, forwardly extending top and side portions; which consists of means for supporting the panel with the top and side portions extending downwardly, means for clamping the inner and outer faces of said panel portions, and means for forming inwardly projecting flanges simultaneously along the edges of said top and side portions.

1,787,152. COW-MILKING APPARATUS. CYRUS HOWARD HAPGOOD, Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 17, 1928. Serial No. 262,337. 45 Claims. (Cl. 31—58.)



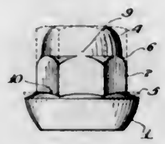
37. In a cow milking machine, the combination with a rotatable platform adapted to carry cows to be milked while the platform is rotating, of a source of vacuum, milk pails arranged at intervals along the platform, means adapted to connect the respective milk pails with vacuum or atmosphere, said means including valves adapted to connect the respective milk pails with atmosphere, sets of teat cups and milk conduits adapted to connect them with the respective pails, said pails having milk outlets, closures controlling said outlets and adapted to be held closed by a vacuum within the pails, and a relatively fixed actuator adapted, in the rotation of the platform, to operate said valves successively and thereby admit air to the pails successively and allow corresponding pail closures to open successively and discharge milk.

1,787,153. INFLATION DEVICE. WILLIAM E. HUFFMAN, Dayton, Ohio. Filed Oct. 29, 1929. Serial No. 403,270. 7 Claims. (Cl. 230—1.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757.)



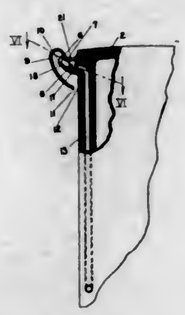
1. A refillable pliable container having one end normally open to receive a fluid and a valve at the other end of said container to permit deflation of said container when in an inflated condition.

1,787,154. CAP NUT. JAMES W. HUGHES, Philadelphia, Pa., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 20, 1926. Serial No. 149,730. 3 Claims. (Cl. 85—35.)



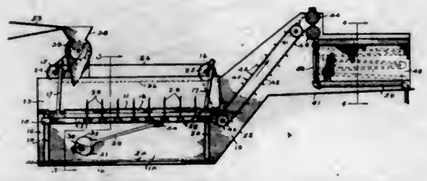
1. A cold forged cap nut comprising a solid forged main body having a tapered engaging face, merging by a conical surface into a polygonal body, a dome-like end portion surmounting said body, of a diameter substantially equal to that of the polygon across the sides and connected thereto by a fragmentary cone-shaped portion, and a spherical depression in the top of said dome-like end, having a distinguishing character impressed therein.

1,787,155. MOTOR VEHICLE. CARL H. INGWER, Elyria, Ohio. Filed Feb. 17, 1927. Serial No. 168,892. 5 Claims. (Cl. 296—137.)



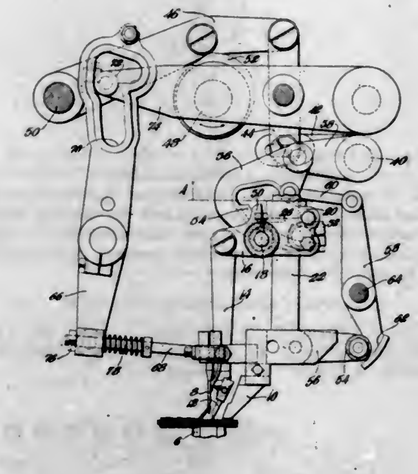
1. In a motor vehicle, the combination with a motor vehicle body, a top therefor, a conduit supported by the vehicle adjacent the border portion of the said top, means to connect a source of water under pressure to the said conduit, said conduit being effective to discharge water against the sides of the motor vehicle adjacent the top, said conduit being approximately scroll-shaped and having superposed rain water conducting eaves, and cleansing water conducting channel portions, said eaves portion being disposed above the said channel portion, said eaves portion containing openings to drain water therefrom into the said channel portion.

1,787,156. USED JOURNAL-BOX-WASTE CLEANING MACHINE. THOMAS M. LAWSON, Indianapolis, Ind. Filed June 17, 1929. Serial No. 371,328. 4 Claims. (Cl. 141—12.)



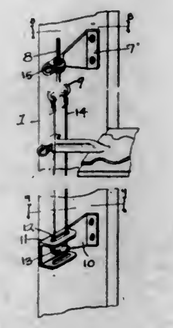
1. In a used journal-box waste reclaiming machine, a tank, a transverse floor across the tank having openings therethrough, fingers carried below the floor, and means for raising and lowering said fingers through said openings, a waste sweating compartment having a perforate bottom, heating means about said compartment, a drain floor below said compartment, means for transferring the waste from said tank to said compartment, and said drain floor sloping back to said tank to drain oil thereto coming through the perforate bottom.

1,787,157. FEED MECHANISM FOR SEWING MACHINES. BERNARD T. LEVEQUE, Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 19, 1925. Serial No. 63,230. 11 Claims. (Cl. 112—47.)



7. A sewing machine having, in combination, stitch forming devices, a presser foot, a lever pivoted thereon and having a limited swinging movement, a feed point pivotally mounted at its upper end on one end of the said lever, an abutment on the other end of the lever, a presser foot lifting member, means for moving the lifting member to engage the abutment and swing the lever on the presser foot until the feed point engages the work and thereafter lift the presser foot and feed point, and means controlled by the thickness of the work for positioning the lifting member to cause it to engage the abutment at the same point in its lifting movement regardless of the thickness of the work.

1,787,158. GUIDE FOR VENETIAN BLINDS. THOMAS E. MCNULTY, Alameda, Calif. Filed Feb. 16, 1929. Serial No. 340,519. 8 Claims. (Cl. 156—17.)



1. A guide for a window shade comprising a pair of wires arranged in spaced parallel relation at a side of the shade; and a plurality of slides arranged in spaced relation along said side of the shade, slidably confined by the wire guides.

1,787,159. BALLOON SPINNER. BENJAMIN C. MERRITT, Shrewsbury, Mass. Filed Apr. 4, 1929. Serial No. 352,559. 6 Claims. (Cl. 46—53.)

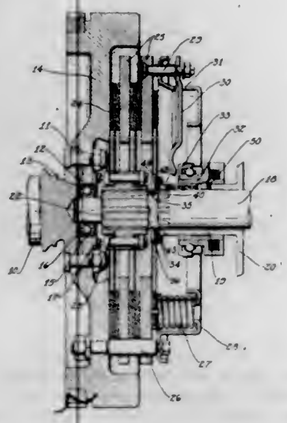


6. In a balloon spinner, the combination with a rod and means at the top thereof for supporting an inflated balloon, of a handle rotatably mounted on said rod and a wire supported by the rod at a distance from the handle and projecting therefrom and provided with a weight on the end for the purpose described.

1,787,160. CLUTCH BRAKE FOR MOTOR VEHICLES. ALFRED MOORHOUSE, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 4, 1927. Serial No. 230,973. 9 Claims. (Cl. 192—13.)

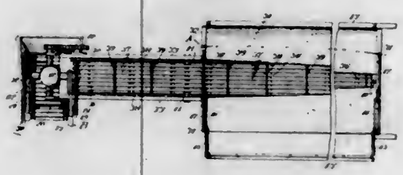
7. A brake mechanism comprising a clutch shaft, a thrust washer on the shaft secured against rotation and axial movement, a sleeve on the shaft secured against rotation, a clutch brake pressure sleeve slidably mounted on the shaft intermediate the thrust washer and the sleeve

secured against rotation, fingers on the clutch brake pressure sleeve engaging slots in the sleeve secured against



rotation, springs mounted in the fingers and means engaging the springs to actuate the clutch brake pressure sleeve for coaction with the thrust washer.

1,787,161. METHOD OF AND APPARATUS FOR HANDLING BEETS. LEONARD B. NEIGHBOUR and FREDERICK A. THOMANN, East Moline, Ill., assignors to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed June 29, 1923. Serial No. 648,445. 29 Claims. (Cl. 209—2.)

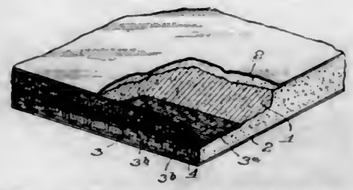


1. An apparatus for separating dirt from beets and like articles, comprising in combination a horizontally elongated receptacle adapted to contain the articles in mass, means underlying and forming a horizontally elongated bottom for said receptacle which supports the articles therein in mass while permitting matter separated from such articles to pass therethrough, means under said receptacle for removing the separated material, and means for moving the lowermost of such articles longitudinally of said receptacle substantially horizontally under and relatively to the mass of overlying articles, and out of the receptacle.

1,787,162. STUCCO MIX AND PROCESS FOR MAKING THE SAME. GUSTAVE ADOLPH NEW, Port Clinton, Ohio, assignor to American Gypsum Company, Port Clinton, Ohio, a Corporation of Ohio. Filed May 19, 1927. Serial No. 192,793. 8 Claims. (Cl. 106—20.)

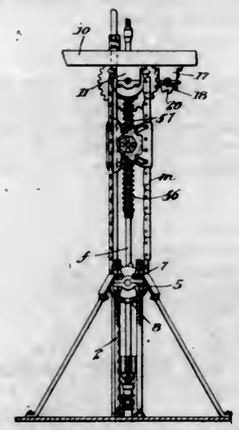
8. A composition for producing a gypsum product of cellular texture consisting of a mixture of calcined gypsum in plastic form and a foam consisting of an agitated solution of blood albumin and lime.

1,787,163. GYPSUM WALL BOARD. GUSTAVE ADOLPH NEW, Port Clinton, Ohio, assignor to American Gypsum Company, Port Clinton, Ohio, a Corporation of Ohio. Filed Mar. 26, 1928. Serial No. 264,658. 23 Claims. (Cl. 154—2.)



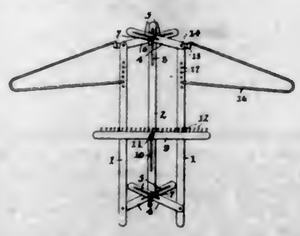
1. A wall board comprising a plaster body, covering sheets of fibrous material extending over the top and bottom faces of said body and a strip of mesh fabric applied over the edge face of said body and having a portion thereof extending into said body.

1,787,164. PUMPING JACK. HENRY W. PARKIN, Los Angeles, Calif., assignor of one-half to Harley J. Gunderson, Los Angeles, Calif. Filed July 5, 1928. Serial No. 290,297. 6 Claims. (Cl. 74—14.)



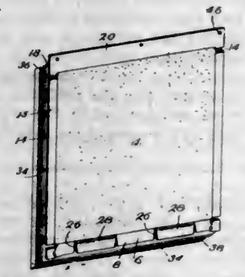
1. In a cross head, a central member formed with bifurcated ends and with a bore, means for guiding movement of an object through said bore arranged in said bifurcated ends, and a pair of cheek members rotatively secured to said central member.

1,787,165. GARMENT STRETCHER. LOUISE W. PEEBLES, Hawthorne, N. J. Filed May 9, 1929. Serial No. 361,556. 5 Claims. (Cl. 223—19.)



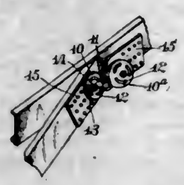
1. A garment stretcher including a body structure and a rebent wire stretching form having its ends bent off at right angles to each other, the body structure having a hole receiving one of said ends and in which it is held substantially fixed and also holes successively spaced from the first hole and any one of which is adapted to receive and hold the other of said ends.

1,787,166. BUILDING SLAB. JOHN H. POWERS, Kansas City, Kans.; Mary A. Powers owner by decree of court. Filed Nov. 26, 1928. Serial No. 322,029. 2 Claims. (Cl. 72—40.)



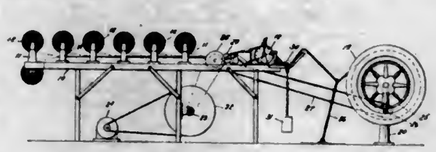
1. In combination with a plurality of strips spaced equal distances apart and arranged perpendicularly upon the wall of a building, a plurality of slabs secured to said strips and each consisting of a plastic body, a reinforcing member embedded in each body, a tongue extending longitudinally of the upper portion of each reinforcing member, and a tongue and groove at the lower portion of each reinforcing member, the last-mentioned tongue fitting between two of the strips while said groove receives the tongue at the upper portion of an underlying reinforcing member.

1,787,167. CONNECTING MEANS FOR RAFTERS. FREDERICK L. PURDY, Columbus, Ohio. Filed Dec. 7, 1927, Serial No. 238,366. Renewed June 19, 1928. 3 Claims. (Cl. 189—36.)



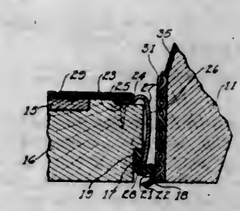
1. Means for connecting a rafter to a roof frame member, including leaves for attachment to the rafter and frame member respectively, universally adjustable means connecting said leaves, and means for securing said leaves in adjustment with regard to the frame and the rafter respectively.

1,787,168. TIRE-FLAP MAKING APPARATUS. EDWARD D. PUTT, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed June 19, 1928. Serial No. 286,693. 2 Claims. (Cl. 154—9.)



1. The combination of apparatus for assembling and compressing a plurality of continuous rubberized strips of material to form a laminated tire flap band, means for driving said apparatus, means for reeling said band onto a vulcanizing form, means for driving said form from said apparatus driving means, a weighted roller engageable with said band between said apparatus and said form for maintaining tension in said band, and means actuated by said roller for increasing or diminishing the speed of the reeling means as the tension in said band is respectively diminished or increased.

1,787,169. MOTOR-VEHICLE BODY. EDWARD F. ROBERTS, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 11, 1926. Serial No. 128,550. 7 Claims. (Cl. 296—29.)



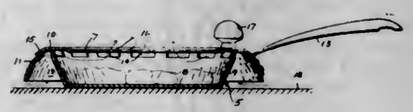
3. In a vehicle body, a floor having a sill and adapted to support a carpet, a door for said body adapted to close into spaced relation with said floor, a weatherstrip carried by the sill and adapted to be engaged by the door when closed, a resilient metal member secured to said sill and adapted to clamp the weatherstrip to said sill, and means attaching the metal member to said sill and concealed by said carpet.

1,787,170. CREASING AND CUTTING MACHINE. JOHN T. ROBINSON and HORACE F. COOK, Boston, Mass., assignors to John T. Robinson Company, Boston, Mass., a Corporation of Massachusetts. Filed June 6, 1929. Serial No. 368,979. 11 Claims. (Cl. 164—70.)



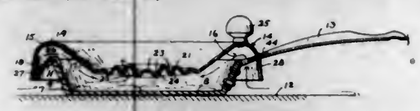
1. In a machine of the character described, in combination, a cutting member, a cutter holder, a cutter carrier movably mounted on said holder, a cutting disc rotatably mounted on said carrier and normally overlapping said member so as to cooperate therewith to shear stock passed therebetween, means for resiliently pressing said overlapping disc and member laterally against one another, and means for resiliently urging said carrier in a direction parallel to the plane of said disk away from said member and towards said holder.

1,787,171. CULINARY MEANS. ALFRED ROHRMANN, Oakland, and HELLMUTH SCHMIDT, Berkeley, Calif. Filed Jan. 21, 1929. Serial No. 333,864. 8 Claims. (Cl. 53—7.)



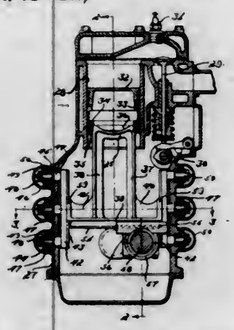
1. A cooking utensil comprising a vessel having a continuous side wall terminating in a rim defining a top opening for the vessel cavity, a hood member extending outwardly and downwardly from the wall at said rim to define an annular space encircling the vessel, a passage connecting said space and said cavity through said wall, and a cover member engaging said rim and having a central vent passage therethrough, no portion of said cover member extending above the plane of its rim engaging edge portion.

1,787,172. COVER FOR COOKING VESSELS. ALFRED ROHRMANN, Oakland, and HELLMUTH SCHMIDT, Berkeley, Calif. Filed Jan. 21, 1929. Serial No. 333,865. 5 Claims. (Cl. 53—7.)



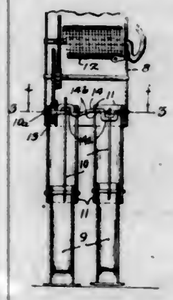
1. In combination with a cooking vessel having a rim defining a top opening, a cover arranged to be supported over said opening, said cover having an outer portion formed to provide a downwardly opening groove for receiving said rim in spaced relation from the walls thereof and a perforated inner portion arranged for disposal below the plane of said rim, and means on said cover engageable with the vessel for supporting the cover with said portions thereof in the aforesaid relations to the rim.

1,787,173. PISTON DRIVE. WILLIAM SAMUELS, Detroit, Mich. Filed Oct. 21, 1927. Serial No. 227,842. 4 Claims. (Cl. 74—14.)



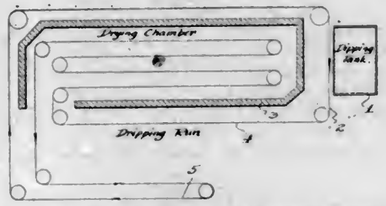
1. In a mechanism of the class described, a piston; a piston extension carrying crosswise a slide rail; guide bars for the piston extension; a crank; and a crank block forming a bearing around said crank and forming a slide saddle around said slide rail, said slide saddle having end recesses adapted to clear said guide bars in the extreme positions of the slide block.

1,787,174. MECHANICAL MOVEMENT AND TOY. ERNEST H. SCHMIDT, Mankato, Minn. Filed Apr. 23, 1928. Serial No. 272,009. 4 Claims. (Cl. 46—40.)



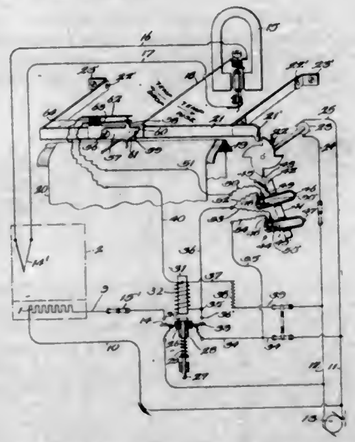
1. An automatic spring actuated walking toy comprising a body containing a clock work drive, upper and lower leg sections articulated together at the knee joints and supporting said body and a crank shaft supported by said body and receiving motion from said clock work drive, which shaft has two identical cranks of relatively long throw, located 180° apart in a common plane through the axis of said shaft's rotation and two identical cranks of relatively short throw located 180° apart in a common plane extending through the axis of said shaft's rotation, said plane intersecting said first mentioned plane wherein said long cranks lie, through said axis and at an acute angle and connections from said long cranks to the upper leg sections for imparting the pivotal or step by step motion to the legs and connections from said short cranks to said upper leg sections to secure the sidewise wabbling motion of said body relative to said legs and shift the center of gravity of the load from the moving to the stationary leg at the instant the step of the moving leg is being started.

1,787,175. APPARATUS FOR ENAMELING METAL ARTICLES. ALVIN G. SHERMAN, Grosse Pointe, and ALBERT MEADOWS, Detroit, Mich., assignors to The Detroit Vapor Stove Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 26, 1927. Serial No. 171,356. 2 Claims. (Cl. 25—2.)



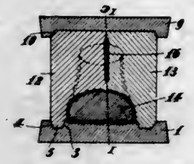
1. In an enameling mill of the type having a rotary furnace for consecutively firing metal articles at a relatively high heat and means for receiving the fired articles, the combination with said firing furnace and said receiving means of a conveyer positioned therebetween, one end of the conveyer being adjacent the outlet of the furnace and the other end adjacent said receiving means, the surface of said conveyer being relatively flat whereby to receive the hot fired articles and to straighten the same, the length of the conveyer between said furnace and said receiving means being such as to insure cooling and fixing of the straightened articles whereby to insure that the articles will not be affected when transferred from the straightening conveyer to the receiving means.

1,787,176. HEAT REGULATOR AND RECORDER. ALBERT F. SPITZGLASS, Chicago, Ill., assignor to Republic Flow Meters Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 10, 1927. Serial No. 160,155. 19 Claims. (Cl. 236—70.)



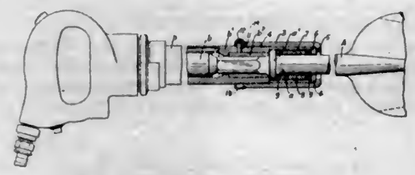
1. In a means for controlling the temperature in an enclosure including an electrically operable heating element, a pyrometer having an arm movable in accordance with the temperature within said enclosure, a bar periodically movable toward and from said arm, and means including a periodically operating part and another part located on the bar and cooperable with said arm for controlling said heating element in accordance with the position of the arm at the moment when the bar moves toward it, said bar and first named part operating in cycles in timed relation to each other.

1,787,177. MOLD FOR MANUFACTURING BOOTS, SHOES, AND SIMILAR ARTICLES OF RUBBER OR OTHER PLASTIC MATERIAL. HECTOR STEPPÉ, ALPHONSE STEPPÉ, and GUSTAVE STEPPÉ, Berchem-Ste. Agathe, near Brussels, Belgium. Filed Sept. 29, 1928, Serial No. 309,202, and in Belgium Mar. 26, 1928. 3 Claims. (Cl. 18—35.)



1. A mold of several parts for manufacturing boots, shoes and like articles of footwear of rubber or like plastic material, comprising top and bottom mold plates through which pressure is applied in molding, two side mold blocks, the oppositely disposed faces of which are hollowed out to conform with the upper of the footwear, a continuous recess in the inner face of said top mold plate for engagement by the top face of the side blocks, a recess in the inner face of said bottom mold plate for engagement by the bottom face of the side blocks and of such shape as to enclose in its center an outstanding portion for supporting the sole of the foot wear, bevelled edges on both side mold blocks and both recesses cooperating in such a way that the side mold blocks move inwardly on pressure being applied, and a last independent of the mold blocks and plates and adapted to be placed on the sole of the footwear.

1,787,178. TOOL-RETAINING COUPLING. EDWARD W. STEVENS, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed May 2, 1924. Serial No. 710,682. 10 Claims. (Cl. 121—32.)

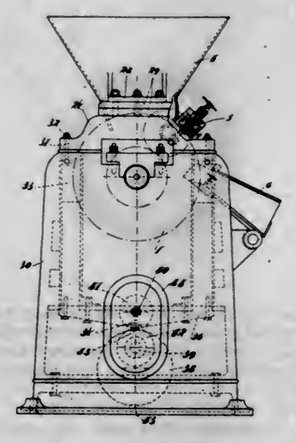


1. The combination with a percussive machine and a working tool having a collar, of a coupling device comprising a barrel nut secured to said machine and receiving the collared shank of the tool therewithin, said nut having at its outer end an inturned flange providing an opening of greater diameter than said collar, a split ring encircling the tool shank and engaging said flange to form an abutment for said collar, and means interposed between said machine and said ring for maintaining the latter rigidly in place.

1,787,179. LENS EXTRACT AND PROCESS OF MAKING IT. ELMER H. STUART, Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a Corporation of Indiana. Filed Oct. 11, 1926. Serial No. 141,035. 16 Claims. (Cl. 167—74.)

1. The process of preparing a lens extract, which consists in extracting with alcohol lenses of the eyes of animals, repeating the extraction several times with separate quantities of alcohol, mixing the several extracts together, evaporating the combined extracts and adding water before the completion of the evaporation, defatting with a suitable hydrocarbon, evaporating further, and separating and preserving the clear liquid.

1,787,180. MILL FOR GRINDING PAINTS, INKS, ENAMELS, AND OTHER VISCOUS MATERIALS. ERNEST GEORGE TODD, Brussels, Belgium. Filed Sept. 21, 1929. Serial No. 394,357. 3 Claims. (Cl. 83—14.)

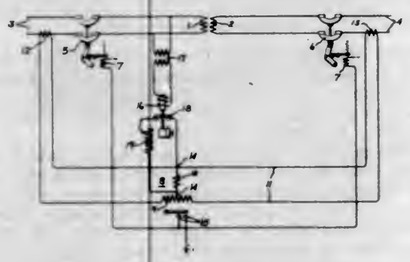


1. A mill for grinding paints, inks, enamels and other viscous materials, comprising a roller actuated to have a rotary movement, a feed hopper adjustably mounted above the roller, a casing fixed to the frame and extending longitudinally of the roller, a sliding member adapted to reciprocate longitudinally in said casing, a grinding block fixed to said sliding member and adapted to contact the roller along its whole length, cams adapted to reciprocate said sliding member, means driven from the roller to rotate said cams, a number of pressure screws adapted to press the block against the roller and reciprocating with the sliding member, winged heads for adjusting the pressure of said screws, a number of idlers adapted to press a lateral face of the block against a smooth surface of the sliding member and means to adjust the pressure of said idlers.

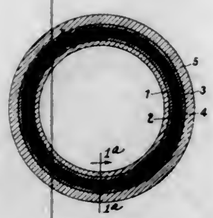
1,787,181. PROTECTIVE ARRANGEMENT. OLIVER C. TRAVER, Pennfield, Upper Darby, Pa., assignor to General Electric Company, a Corporation of New York. Filed Jan. 2, 1929. Serial No. 329,845. 5 Claims. (Cl. 175—294.)

1. In combination with electromagnetic apparatus subject to magnetizing inrush currents, fault responsive protective means including a relay having two cooperating windings respectively connected to be energized in ac-

cordance with the sum of and the difference between the currents into and from said apparatus and means responsive to the energization of said apparatus for decreasing the sensitivity of the relay until the subsidence of the magnetizing inrush current transient.

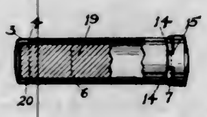


1,787,182. LOOM PICKER. VALENTIN WEISS, Berlin-Weissensee, Germany, assignor to the Firm Jaroslaws Erste Glimmerwarenfabrik, Berlin, Germany. Filed Apr. 15, 1929, Serial No. 355,019, and in Germany Apr. 20, 1928. 10 Claims. (Cl. 139—160.)



1. A picker for looms or similar article comprising untreated fibrous layers and fibrous layers treated with an artificial resin, the juxtaposed untreated and treated layers being firmly united by the said resin.

1,787,183. COSMETIC HOLDER. HENRY W. WILD and PHILIP A. REUTTER, Waterbury, Conn., assignors to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Apr. 7, 1928. Serial No. 268,109. 3 Claims. (Cl. 220—31.)



1. In a cosmetic holder, an outer casing having a bead, an inner casing extending above the bead of the outer casing, a cutout in the outer casing extending through the bead, and a cap having an integral extension shaped to form a pivot wider than the cutout and frictionally held in the bead by and between the outer and inner casings and hinging the cap to the holder.

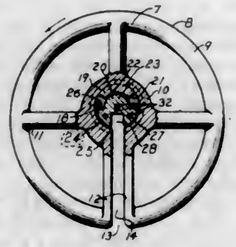
1,787,184. RADIATOR SHIELD. BEN ALTHEIMER, University City, Mo., assignor to Myrtle Altheimer, University City, Mo. Filed Mar. 5, 1929. Serial No. 344,239. 7 Claims. (Cl. 237—79.)

3. An impervious shield formed from a single sheet of flexible material, folded to form a back, a top, a front apron and sides joining the ends of the top, apron and back, all the said parts being formed by folding the material and forming an unseamed, impervious cover open below, the material employed having sufficient body to



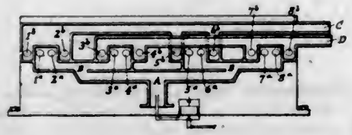
permanently retain the folds and make the shield self-maintaining as to shape, and means for securing the portions of the sheet in folded position.

1,787,185. WRENCH. LYNNE D. BAIRD, Tulsa, Okla. Filed Apr. 21, 1928. Serial No. 271,769. 4 Claims. (Cl. 81—53.)



1. In a coupling wrench, a support comprising a circular hub and a radial handle, the hub having concentric recesses at the upper and lower ends of its central opening, a socket member comprising a body rotatable in the central hub opening and an integral flange seated in one of said recesses, a plate seated in the other hub recess and fixed to the body to retain the socket member rotatably in the hub, and means for limiting the rotation of the socket member with respect to the hub, the hub and socket member being provided with openings to admit a coupling to the socket member.

1,787,186. INLET MANIFOLD FOR STRAIGHT-EIGHT INTERNAL-COMBUSTION ENGINES. JEAN A. H. BARKEIJ, Los Angeles, Calif. Filed Mar. 10, 1925. Serial No. 14,401. 15 Claims. (Cl. 123—59.)



1. In an internal combustion engine having eight cylinders arranged in a line, a riser connected with two oppositely arranged branches, the free ends of said branches

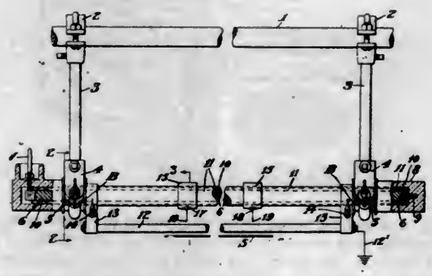
being connected to other oppositely arranged branches, the free ends of said second branches of one of said first branches connected respectively to cylinders 1 and 2, and to cylinders 3 and 4, the free ends of said second branches of the other of said first branches connected to cylinders 5 and 6, and cylinders 7 and 8 respectively, so that the distances from the intake of said riser to all the individual cylinders of said engine is substantially the same, said cylinders of said engine numbered consecutively.

1,787,187. PRINTING-PRESS CYLINDER. MARTIN W. BRUESHABER, River Forest, Ill., assignor to Goss Printing Press Company, a Corporation of Illinois. Filed Feb. 15, 1928. Serial No. 254,471. 4 Claims. (Cl. 101—375.)



1. A high speed rotary relief printing press cylinder including in combination a dense wear resisting metal shaft and a metal cylinder thereon of relatively low specific gravity with respect to the metal of the shaft.

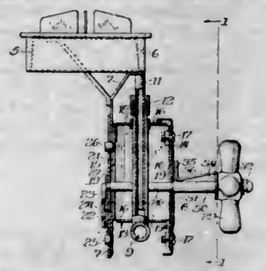
1,787,188. NEUTRALIZING APPARATUS. WILLIAM H. CHAPMAN, Portland, Me., assignor to Chapman Electric Neutralizer Company, Portland, Me., a Corporation of Maine. Filed Mar. 25, 1930. Serial No. 438,682. 2 Claims. (Cl. 175—264.)



1. In apparatus for neutralizing the static electricity of a moving sheet, a fixed support, a discharge bar clamped to said support, and a ground bar clamped to said discharge bar, and a plurality of discharge points suspended from said discharge bar, the clamp connection of the discharge bar with said support permitting the discharge bar and with it the ground bar and discharge points to be rotatively adjusted as a unit relative to the sheet, and the clamp connection of the ground bar with the discharge bar permitting said ground bar to be rotatively adjusted independently of said discharge bar and discharge points.

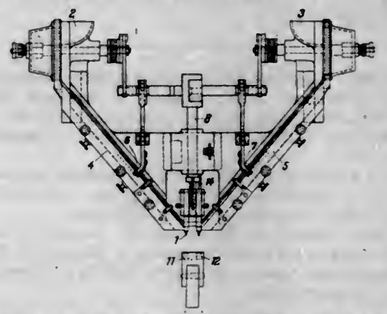
1,787,189. LIQUID-FUEL STOVE. WILLIAM L. COOPER and LEON D. FORTIER, Kankakee, Ill., assignors to Sears, Roebuck and Co., Chicago, Ill., a Corporation of New York. Filed Aug. 4, 1927. Serial No. 210,513. 9 Claims. (Cl. 158—42.)

5. In a wickles fuel burner, in combination, a frame, a fuel container adapted to be positioned to change the fuel level therein to regulate a flame, a support for said container adapted for vertical movement relative to the frame, and means mounted on said frame for adjusting the position of said container, said means being movable vertically relative to said frame and adapted simultaneously with the movement thereof to effect a vertical move-



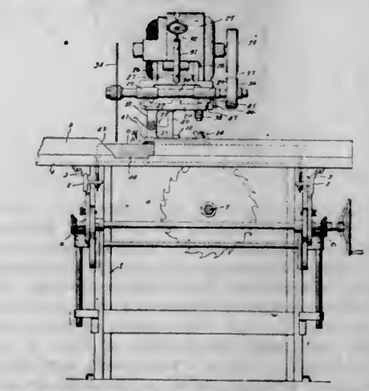
ment of said support relative to said means whereby the change in position of said container may be effected by a limited movement of said means.

1,787,190. RIVETING MACHINE. HEINRICH ELSNER, Dresden, Germany. Filed Apr. 16, 1929. Serial No. 355,612. 1 Claim. (Cl. 218—0.5.)



A riveting machine comprising two rivet feeding devices, a plunger formed with a double riveting set, a rivet case arranged directly on the said plunger and adapted to slide thereon, a spring to pull up the said riveting case on the said plunger, pairs of jaws adapted to swing about bolts on the said case, and springs to draw the jaws against the said plunger, the jaws being arranged to grip the rivets slightly below their heads.

1,787,191. WOODWORKING MACHINE. WILLIAM T. FISK, Detroit, Mich., assignor to Master Woodworker Mfg. Co., Detroit, Mich., a Corporation of Michigan. Filed June 23, 1927. Serial No. 200,833. 1 Claim. (Cl. 143—6.)



In combination with a support, a track pivotally mounted thereon, the pivotal axis being parallel to the longi-

tudinal axis of the track, whereby said track may be tilted in a direction transverse of its length, a vertical saw slidably mounted on said track and lying in a plane parallel to the longitudinal axis of the track, and a double stop member carried by said support and consisting of two arms engageable by said track in different angular positions, one of said arms being a vertical member adapted to hold said track in a horizontal position, and the other arm being inclined at 45° to the horizontal, whereby the angular movement of the track is limited to a movement between its horizontal position and one at an angle of 45° thereto.

1,787,192. METHOD OF PURIFYING PHOSPHORIC ACID AND THE LIKE. AUGUSTUS H. FISKE, Providence, R. I., assignor to Rumford Chemical Works, Providence, R. I., a Corporation of Rhode Island. Filed Aug. 11, 1928. Serial No. 299,106. 3 Claims. (Cl. 23—165.)

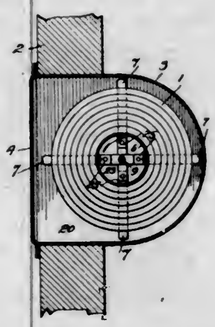
1. In the maunfacture of phosphoric acid, those steps which consist in adding relatively small amounts of a soluble sulphide to the dilute acid prior to concentration and in then evaporating in a vessel having a corrodable lining while gradually adding more sulphide to the acid as it concentrates.

1,787,193. LEAVENING PREPARATION. AUGUSTUS H. FISKE, Warren, R. I., assignor to Rumford Chemical Works, Providence, R. I., a Corporation of Rhode Island. Filed July 2, 1929. Serial No. 375,595. 5 Claims. (Cl. 99—10.)

1. In a leavening preparation, gas forming reactants including a phosphate having added iron chemically combined therein in excess of normal residuum.

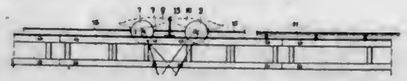
4. The method of improving the keeping quality of a leavening preparation including a phosphoric acid ingredient which consists in augmenting its iron ingredients above three per cent.

1,787,194. STATIONARY HOSE REEL. RICHARD T. FREETH, Hempstead, N. Y. Filed Jan. 5, 1928, Serial No. 244,604. Renewed May 22, 1930. 1 Claim. (Cl. 242—86.)



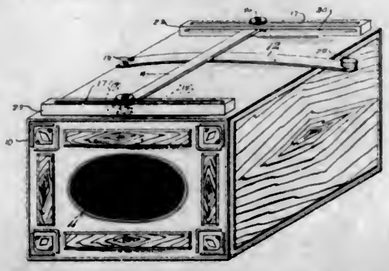
In a stationary hose reel, the combination with the wall of a building structure, of a casing permanently built therein and provided with a front opening having a cover, a hose reel mounted to revolve in the casing and consisting of a drum and cross arms at the ends of said drum, which arms extend beyond the ends of the drum, and which arms at their intersections carry projecting journals on which the drum revolves, a pinion on one of the drum journals, a pinion driving said first pinion, a shaft carrying the driving pinion, an elongated bearing for said shaft on the side of the casing, a crank for rotating the latter driving shaft, a clamping device on one of the arms near the drum for clamping one end of the hose, and a clamping device consisting of spring fingers on the outer end of one of the arms for holding the other end of the hose after the hose has been wound on the drum.

1,787,195. CIRCULAR-SAW MACHINE. HUBERT GOPOLD, Zubak, Czechoslovakia. Filed Oct. 4, 1929, Serial No. 397,305, and in Czechoslovakia May 3, 1928. 1 Claim. (Cl. 143—32.)



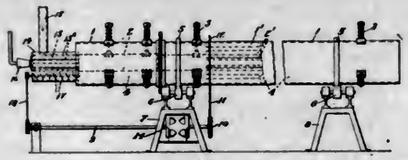
In Combination, a saw table, two laterally spaced circular saws mounted on said table in a common vertical plane and with their axes disposed in a common horizontal plane, the teeth of said saws being pitched outwardly relative to one another, means for rotating said saws in opposite directions outwardly relative to one another, said saw table being disposed at one side of said saws, a carriage frame disposed at the other side of said saws, a carriage mounted for movement along said carriage frame across the saws, the top of said carriage being disposed in a common horizontal plane with the top of said saw table, and saw table extensions at the ends of said saw table having their tops disposed in a common horizontal plane with the top of said saw table and the top of said carriage.

1,787,196. SOUND-PRODUCING INSTRUMENT. PHILIP L. HAINS, Cleveland, Ohio. Filed Apr. 28, 1930. Serial No. 447,938. 2 Claims. (Cl. 84—456.)



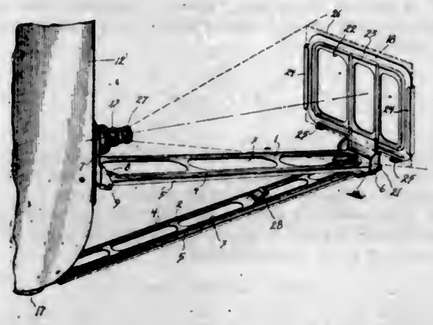
1. A sounding instrument comprising a sounding box, a vibrating reed extending across the box and fixed at one end thereto, the other end being free and projecting beyond the side of the box, a stop bar movable along the reed, and guides on the box for the opposite ends of the stop bar.

1,787,197. ROTARY DRIER. WILLIAM A. HARTY, Buffalo, N. Y., and FRANK W. MOORE, Thorold, Ontario, Canada, assignors to Harmor & Co. Inc., Buffalo, N. Y., a Corporation of New York. Filed May 5, 1928. Serial No. 275,361. 2 Claims. (Cl. 34—6.)



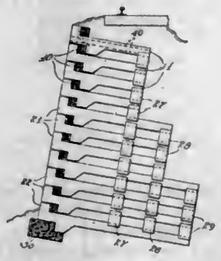
1. A drier comprising a rotary shell and an internal hollow mandrel rotating therewith and extending beyond the intake end of the shell as a firing end, a drive shaft and driving connections to said shell, and a conveyor disposed beneath said mandrel extension and driven from said drive shaft.

1,787,198. PHOTOGRAPHIC DEVICE. ALBERT S. HOWELL, Chicago, Ill., assignor to The Bell & Howell Company, Chicago, Ill., a Corporation of Illinois. Filed July 26, 1928. Serial No. 295,372. 4 Claims. (Cl. 88—24.)



1. In a device of the character described the combination of two similarly disposed extension support members pivotally secured together for movement into and out of overlying relation, means whereby corresponding free ends of said membera may be detachably and predeterminately secured in spaced relation to a photographic camera, a card holder pivotally secured with said support members in spaced relation with said free ends thereof for movement from an overlying relation with respect to said support members into a predetermined photographing position with respect to the camera, and releasable means for securing said support members and card holder in overlying relation.

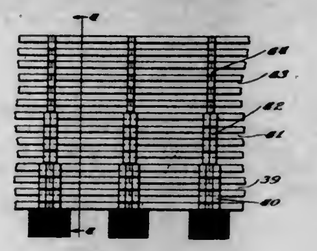
1,787,199. CRIBBING. JOHN S. HUNTOON, Detroit, Mich., assignor to Massey Concrete Products Corporation, Chicago, Ill., a Corporation of Illinois. Filed Nov. 1, 1926. Serial No. 145,392. 8 Claims. (Cl. 61—47.)



1. In a cribbing, a plurality of rectangular stretchers and a plurality of headers of substantially rectangular cross section having an upwardly extending leg and a downwardly extending leg, said legs being offset an amount equal to the width of said stretchers.

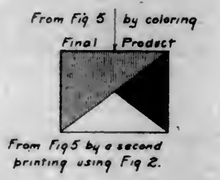
1,787,200. CRIBBING. JOHN S. HUNTOON, Detroit, Mich., assignor to Massey Concrete Products Corporation, Chicago, Ill., a Corporation of Virginia. Original application filed Nov. 1, 1926, Serial No. 145,392. Divided and this application filed July 20, 1928. Serial No. 294,070. 5 Claims. (Cl. 61—47.)

1. In a cribbing, a plurality of stretchers of one shape, and a plurality of transverse headers of a second shape, piled alternately upon each other to form said cribbing, said headers having plane sides and a plurality of headers being placed side by side at the base of a header wall, a



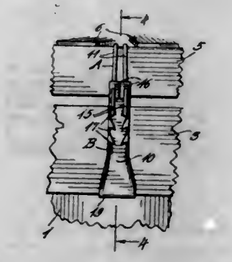
lesser number of headers supported upon all of the first named headers, to graduate the header wall in thickness from the bottom to top.

1,787,201. COMBINED BLACK AND WHITE AND COLORED IMAGE PHOTOGRAPHY. WILLIAM V. D. KELLEY, Jersey City, N. J., assignor to Kelley Color Films, Inc., a Corporation of New Jersey. Filed Nov. 4, 1925. Serial No. 66,698. 3 Claims. (Cl. 95—2.)



1. A transparent carrier coated on one side only with gelatine having a reduced silver image of the minus reds in the original subject and a toned color representation of the red in the original subject.

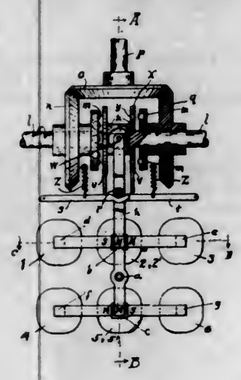
1,787,202. ADJUSTABLE FASTENER FOR FRUIT BASKETS. OLIVER O. KENDALL, Denver, Colo., assignor to Enos B. Hiatt, Denver, Colo. Filed June 11, 1928. Serial No. 284,552. 2 Claims. (Cl. 292—19.)



1. An adjustable device for attaching a cover to a basket, said device comprising an elongated member formed from sheet metal, a portion of each side edge of the member being bent reversely so as to form opposing grooves, one end of said member having a hook adapted to engage a portion of a basket, the edges of the reversely bent sides being provided with opposed ratchet teeth, a cooperating member formed from a wire bent intermediate its ends into a hair pin shape, the end having the bend being bent transversely of the plane of the member so as

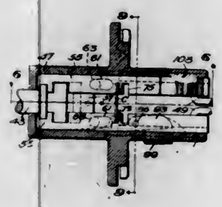
to form a hook adapted to engage a portion of a cover, the free ends of the hair pin shaped portion being bent so as to form hooks that are adapted to engage the ratchet teeth on the other member, those portions of the wire member between the hooks at the free ends and the first mentioned hook being straight and located in the grooves which form guides.

1,787,203. COUPLING DEVICE. RICHARD KEMLEIN, Berlin, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Filed July 11, 1928, Serial No. 291,836, and in Germany May 4, 1927. 14 Claims. (Cl. 192—12.)



1. In combination, a first shaft, a second shaft, coupling gears connected to said shafts, a shifting member pivotally arranged to effect coupling connection for imparting rotating motion from one to the other of said shafts, and electro-magnetically operated control means exerting a mechanical torque on said shifting member on both sides of its pivot point.

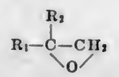
1,787,204. VENDING MACHINE. CHARLES LEA, Boston, Mass., assignor to The Automatic Merchandizer Inc., Boston, Mass., a Corporation of Delaware. Filed Aug. 2, 1927. Serial No. 210,095. 12 Claims. (Cl. 194—93.)



1. Coin controlled mechanism having a plurality of locks each permitting limited movement of said mechanism, and means for controlling the open positions of said locks in accordance with different diameters of the coin comprising a lock controlling feeler for each lock movable radially of the coin, said feelers adapted to contact with the latter at different points on its periphery, and means responsive to the limited movement of said mechanism permitted by said locks for causing unlocking of the latter when a coin of predetermined diameter is inserted.

1,787,205. PRODUCTION OF ALCOHOLS. OSKAR LOEHR, Uerdingen, Niederrhein, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed June 1, 1928, Serial No. 282,282, and in Germany June 7, 1927. 9 Claims. (Cl. 260—156.)

1. A process of producing primary alcohols which comprises reacting upon an olefine oxide which corresponds to the general formula:



wherein R_1 stands for an alkyl or aryl residue and R_2 for a hydrogen atom or alkyl, aryl or aralkyl group with hydrogen in the presence of a hydrogenation catalyst.

5. A process of producing n-propyl alcohol which comprises reacting upon propylene oxide with hydrogen in the presence of finely divided nickel.

1,787,206. CARRIER FOR DISPATCH SYSTEMS. FRANK W. MACMARTIN, Syracuse, N. Y., assignor to The Lamson Company, Syracuse, N. Y., a Corporation of Massachusetts. Filed May 1, 1930. Serial No. 448,894. 7 Claims. (Cl. 243—36.)



5. A carrier for use in a pneumatic dispatch system, said carrier having an elongate body provided with a head at one end and an enlargement at the opposite end and being adapted for transmission through the system like an ordinary carrier, said carrier being so constructed and arranged as to preclude its use as a conveyor for articles, and being provided upon its outer surface between the head and enlargement with a plurality of color bands.

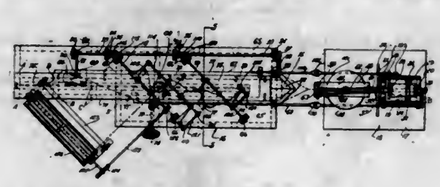
1,787,207. MOUTH EQUIPMENT FOR DOLLS' HEADS. SAMUEL MARCUS, New York, and ALEXANDER KONOFF, Brooklyn, N. Y., assignors to Markon Manufacturing Co., Inc., New York, N. Y., a Corporation of New York. Filed Feb. 17, 1928. Serial No. 254,926. 9 Claims. (Cl. 46—40.)

1. The combination of a doll head with an animated tongue member comprising, a doll head having a mouth opening, a suspension frame affixed interiorly to the front wall of the doll head at said mouth opening, said suspension frame being confined in its overall dimensions whereby it is localized at the mouth opening and positioned entirely below the eye members of the doll head, and



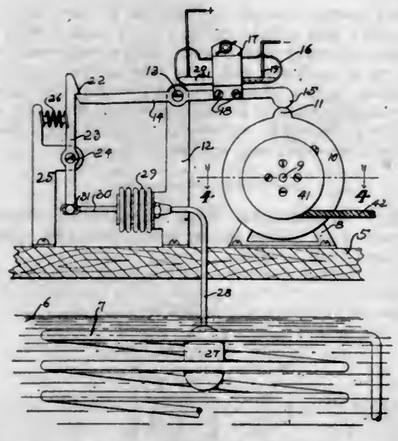
an animated tongue member located at said mouth opening, said animated tongue member being vibratably suspended on said suspension frame.

1,787,208. MACHINE FOR CUTTING BIAS FABRICS. JOSEPH P. MORRIS, Bridgeport, Conn. Filed July 23, 1927. Serial No. 207,858. 5 Claims. (Cl. 164—65.)



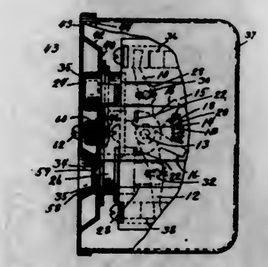
1. In a machine for cutting a cloth tube into a bias strip, a flat mandrel, means for spirally feeding the cloth tube in the direction of the mandrel, rolls disposed on top of the mandrel for feeding the cloth tube along and spirally about the mandrel, means for cutting the cloth tube into a bias strip as it is fed, and means for moving the bias strip from the cutter.

1,787,209. REFRIGERATOR CONTROL. GLENN MUFFLY, Detroit, Mich., assignor to Copeland Products Inc., a Corporation of Michigan. Filed Sept. 20, 1928. Serial No. 307,107. 5 Claims. (Cl. 62—4.)



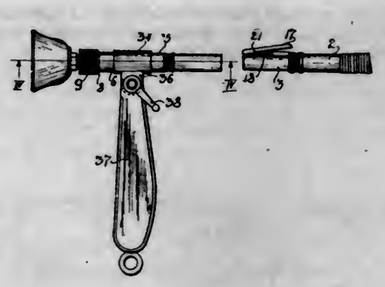
1. A control for refrigersting systems comprising means for commencing the operation of an alternately operative device at predetermined intervals and means for automatically stopping the operation of such device in response to conditions produced by such operation.

1,787,210. PUSH-BUTTON ELECTRIC SWITCH AND COVER PLATE THEREFOR. GEORGE W. O'KEEFFE, Milton, Mass., assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass., a Corporation of Massachusetts. Filed June 27, 1928. Serial No. 288,726. 19 Claims. (Cl. 200—168.)



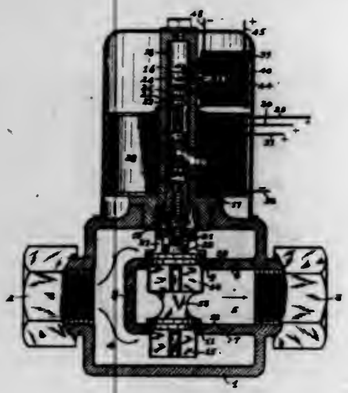
1. In an electric switch, the combination of an enclosing casing, a pair of switch operating push buttons extended through and beyond the outer wall of said casing, means separate from said casing having means to affix it temporarily to said casing and when affixed to said casing arranged to cooperate therewith to enclose the extended ends of both push buttons and also to maintain one only of said push buttons in a depressed position.

1,787,211. VIBRATOR AND METHOD OF USING THE SAME. CHARLES A. PRIEST, Chicago, Ill., assignor to The Scholl Mfg. Co. Inc., Chicago, Ill., a Corporation of New York. Filed Nov. 23, 1927. Serial No. 235,334. 1 Claim. (Cl. 128—45.)



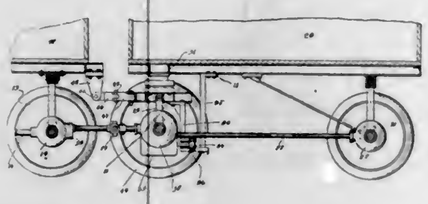
A massaging device including a massaging implement, a handle therefor including a sleeve having an aperture in the wall thereof, and having a slot formed in one end thereof, a shaft journaled for rotation in said sleeve and operatively connected to the massaging implement, a second sleeve having a shaft rotatable therein and arranged to slide into the first sleeve so that its shaft locks into the shaft in the first sleeve, means for removably coupling the two sleeves, the said means including a member on the second sleeve arranged to enter the slot in the first sleeve, and having a reversely bent spring member with a toe arranged to enter the aperture in the wall of the first sleeve.

1,787,212. VALVE. FREDERICK B. RICKENBERG, Pittsburgh, Pa. Filed Apr. 2, 1929. Serial No. 351,908. 5 Claims. (Cl. 137—139.)



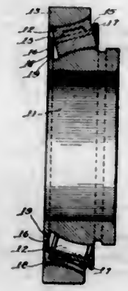
1. In combination, a valve comprising a valve casing, a valve element mounted in said valve casing and shiftable in the latter for opening and closing the valve, a stem provided with a bore and detachably secured to said valve casing, said bore having a closed outer end and an enlarged inner end communicating with said valve casing, a plunger shiftably mounted in said bore, a connecting bolt adjustably connected with said plunger and having a shiftable connection with said valve element, and an electro-magnet mounted on said stem and operable for actuating said plunger to shift said valve element to the opening position in said valve casing, said enlarged bore end providing clearance for said valve element when the latter is shifting to the opening position.

1,787,213. MOTOR-TRUCK TRAILER. JACOB SALOMONSEN, Greenwood, Wis. Filed Nov. 19, 1925. Serial No. 69,983. 13 Claims. (Cl. 180—14.)



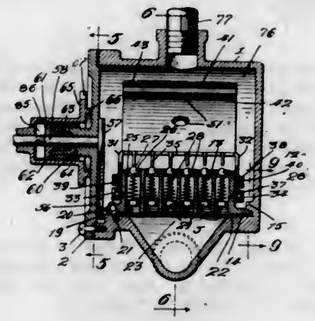
2. The combination with a motor truck trailer having a swiveled front running gear structure, a rear axle differential and a transmission shaft for said differential; of a power receiving shaft on the front running gear structure; a stud shaft on said structure; compensation gearing arranged on said stud shaft for receiving power from the power receiving shaft and transmitting power to the transmission shaft, curved racks carried respectively by said structure and the trailer proper; and a differential arm fixed to said intermediate gear and having a pinion engaging between said racks, substantially as described.

1,787,214. ANTIFRICTION BEARING. JULIUS E. SHAFER, Chicago, Ill., assignor to Shafer Bearing Corporation, Chicago, Ill., a Corporation of Illinois. Filed Jan. 16, 1928. Serial No. 246,927. 17 Claims. (Cl. 308—213.)



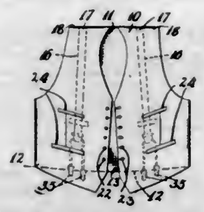
1. An antifriction bearing comprising a plurality of bearing rollers and means contactive with said rollers only on the bearing surfaces thereof for retaining the same in position.

1,787,215. MIXING VALVE. LEONARD SINCLAIR, Newburgh, N. Y., assignor to Becker Valve and Specialty Corporation, Newburgh, N. Y., a Corporation of New York. Filed Mar. 19, 1929. Serial No. 348,321. 9 Claims. (Cl. 236—12.)



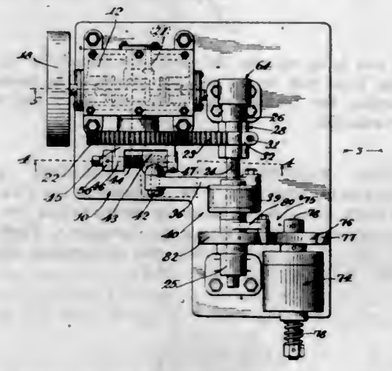
1. In a mixing valve, in combination, a casing having an outlet and a pair of inlet ports, a valve head having passageways extending therethrough, said passageways being connected respectively with said inlet ports, a valve for controlling the flow of liquid through each of said passageways, a rocker member pivotally mounted upon the valve head, having fingers for opening said valves, and a thermostatic unit connected with said rocker member.

1,787,216. SUSPENDER VEST. SIGMOND SPIELBERGER, Jamaica, N. Y. Filed Mar. 8, 1930. Serial No. 434,210. 3 Claims. (Cl. 2—102.)



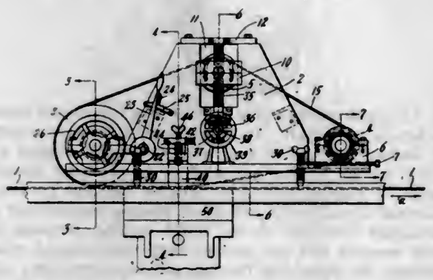
1. A combination vest and trouser supporter, comprising a vest having a lining consisting of a pair of chest portion lining sections and a back portion lining section, and each of said chest portion lining sections comprising outer and inner sheets secured together, straps between said inner and outer sheets and attached at their top ends to the lining in the vicinity of the shoulders of the vest and extending thru slots in the inner sheets substantially at their centers and terminating at their free ends in means for supporting a pair of trousers, and means for transmitting tension from said supporting straps to the lining for urging different portions of the lining against a wearer of the device to change its feed on the person and consequently its comfort.

1,787,217. AUTOMATIC TIMING MECHANISM. CLARENCE E. STEERE, Los Angeles, Calif. Filed Oct. 5, 1929. Serial No. 397,544. 4 Claims. (Cl. 74—7.)



1. A device of the character described comprising a gear, means for rotating said gear, a shaft, a segmental gear on said shaft, a ratchet on said shaft, and means for actuating said ratchet from said gear to bring said segment into mesh with the gear.

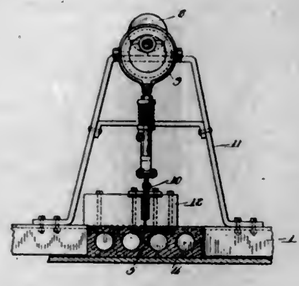
1,787,218. METHOD OF AND MEANS FOR MAKING DECORATED PAPER. JESSE H. TRASK, Wausau, Wis. Filed Oct. 22, 1928. Serial No. 314,038. 12 Claims. (Cl. 92—48.)



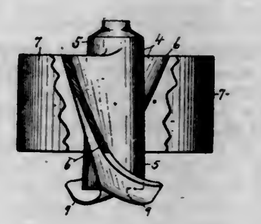
1. The method of making a marked paper, which comprises bringing a stencil against one face of a formed and partially dried web, passing marking material through said stencil against said web, and then withdrawing said stencil while preventing adhesion of the web thereto.

1,787,219. METHOD OF AND APPARATUS FOR SCORING BLOCKS. FRED TROTTER and ARTHUR SWANSON, Fort Dodge, Iowa, assignors to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 21, 1927, Serial No. 185,471. Renewed Jan. 26, 1929. 6 Claims. (Cl. 25—1.)

2. In a tile scoring machine a scoring device comprising a scoring blade, guides therefor a drive shaft having a rotary motion, eccentrics connecting the rotating drive shaft to the scoring blade, transforming the rotary motion into a vertical reciprocal motion, and a counterbalance on the drive shaft to balance the weight of the eccentrics and the scoring blade.

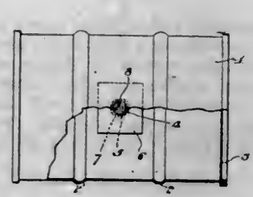


1,787,220. IMPELLER FOR MECHANICAL DISHWASHERS. FORREST A. WALKER, Syracuse, N. Y., assignor to Walker Dishwasher Corporation, Syracuse, N. Y., a Corporation of New York. Filed Nov. 28, 1926. Serial No. 150,230. 4 Claims. (Cl. 170—168.)



2. An upright impeller for mechanical dishwashers comprising a hollow hub provided with outwardly projecting blades having their outer portions curved downwardly and forwardly from top to bottom in the direction of rotation, the radius of curvature of each blade being gradually diminished from top to bottom thereof and the lower end of each blade being extended forwardly in a plane at substantially right angles to the axis of the hub.

1,787,221. METALLIC RECEPTACLE. HUGH H. WARD, Chester, Pa. Filed Mar. 26, 1926. Serial No. 97,606. 3 Claims. (Cl. 220—24.)



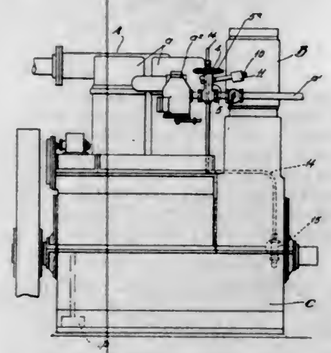
2. A metallic cask-like receptacle containing a flanged aperture forming a smooth surfaced bunghole for a driven bung, and a re-enforcing plate surrounding said bunghole and having a flange engaging the flange surrounding said aperture.

1,787,222. COMBINATION CONTAINER AND DISPLAY DEVICE. HARRY C. WARNER, Kansas City, Mo. Filed Dec. 19, 1928. Serial No. 327,064. 5 Claims. (Cl. 206—44.)



1. A support for fly swatters and the like comprising an envelope provided with transverse slits to admit the handles of the swatters to the envelope to retain the handles for support of the swatters with the heads thereof exterior to the envelope.

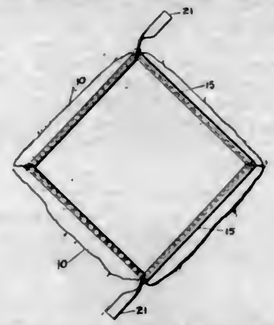
1,787,223. SAFETY STOP APPARATUS FOR ENGINES. HARRY C. WASSON, Franklin, Pa., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 20, 1929. Serial No. 356,648. 3 Claims. (Cl. 123—196.)



1. The combination with a prime mover having a force feed circulating system, of a conduit for the motive agent leading to said engine, a valve for closing said conduit including a plunger carrying the valve proper, a lever having an adjustable weight for moving said plunger to valve closing position, and means utilizing the pressure in said circulating system to counteract the action of said weight.

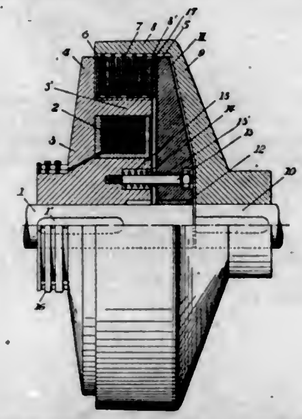
1,787,224. SUCTION CLEANER. HARRY B. WHITE, Canton, Ohio, assignor to The Hoover Company, a Corporation of Ohio. Filed Apr. 16, 1927. Serial No. 184,218. 4 Claims. (Cl. 150—4.)

1. A dust bag having a discharge opening adjacent one end thereof, means defining the discharge opening comprising links and levers connected one to another, the links secured to the peripheral edge of the bag, the levers also secured to that edge between their fulcrums and one end, that portion of the lever between the fulcrum and the



other end lying outside the enclosure defined by the connecting links and levers and forming holding means for preventing the frame from collapsing when the bag is being emptied.

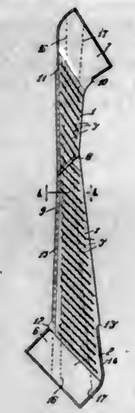
1,787,225. ELECTROMAGNETIC COUPLING. BRUNO WITTKUHNS, New York, N. Y., assignor to the Firm Magnet-Werk G. m. b. H. Eisenach Spezialfabrik fur Elektromagnet-Apparate, Eisenach, Germany. Filed Apr. 20, 1927, Serial No. 185,252, and in Germany May 20, 1926. 5 Claims. (Cl. 192—84.)



1. In combination, a pair of shafts; a cup-shaped clutch member on one shaft; an electromagnetic body mounted fast on the other shaft and received in said member and having a hub portion provided with inwardly opening shouldered longitudinal bores; friction members alternately secured to said body and clutch member repsectively; a disk-shaped armature in the clutch member between the clutch member and the magnet body and adapted, when attracted, to press the friction members together; said armature having bolt holes alined with said bores and having countersunk ends adjacent to the clutch member; bolts passed through said holes and bores and screwed into the magnet body; springs on said holes compressed between the armature and the shoulders of the bores to press the armature from the magnet body; and nuts on the ends of the bolts in said countersunk ends to limit movement of the disk toward the clutch member.

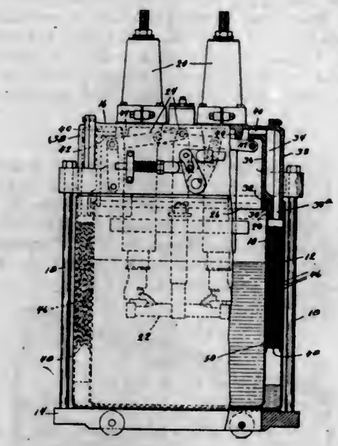
1,787,226. NECKTIE. HARRY WOLF, Chicago, Ill., assignor to Cutter-Crossette Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 28, 1928. Serial No. 328,899. 1 Claim. (Cl. 2—146.)

The method of making neckties which includes the spreading of a piece of lining material over a piece of outer bias cut silk fabric, the side edges of the latter and the lining being substantially parallel, then attaching the lining to the outer fabric over substantially the entire area of the lining, then bias cutting the lined fabric into conventional blanks, then arranging and joining the



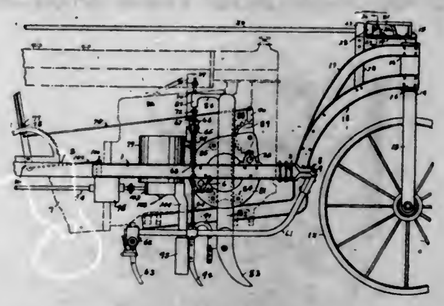
cut blanks to form a complete tie blank, and thereupon trimming away a side edge portion of the lining to leave a free edge portion of silk to permit hemming and stitching together of opposite side edge portions of the outer fabric free of the said lining, and thereupon completing the tie.

1,787,227. ELECTRIC SWITCH. JOSEPH D. WOOD, Quincy, Mass., assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 3, 1924. Serial No. 747,478. 13 Claims. (Cl. 200—150.)



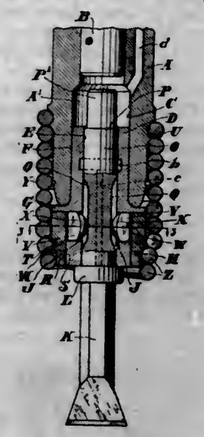
1. An electric switch having an outer oil-catching receptacle, an oil-containing receptacle disposed within and having its side walls spaced from the side walls of said outer receptacle, separable switch members located in the oil in said oil-containing receptacle, a plurality of relatively closely-spaced metal plates having approximately parallel surfaces disposed in the upper portion of the space between said two receptacles, and means to direct fluid from said inner receptacle to flow downwardly between said plates and into said outer receptacle.

1,787,228. AGRICULTURAL IMPLEMENT. FRANK J. ZALESKY, Buckholts, Tex. Filed Jan. 28, 1927. Serial No. 164,248. 8 Claims. (Cl. 97—47.)



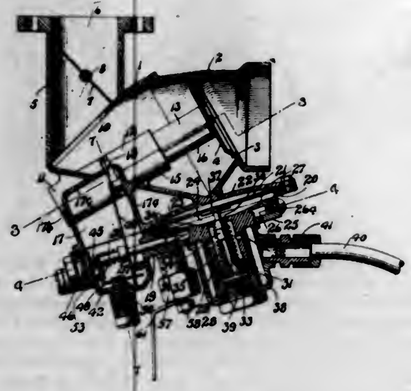
1. An implement of the character described comprising tractor wheels, an axle to which said wheels are fixed, a framework supported by said axle, and including outside side members and a supplemental frame having inside side members spaced apart and spaced from the respective outside members, forwardly extending supporting means supporting the front end of the framework, a motor supported by the supplemental frame and operatively connected with said axle, ground working means supported by the framework on each side and at the rear thereof, said rear ground working means comprising bearing members, depending from said outside members, rearwardly extending hanger arms pivoted to said bearing members, stocks depending from said arms, shares yieldingly mounted on the said stocks, a rotatable shaft on said outside members, lift arms attached to said shaft, and yieldably connected to said hanger arms, and means for rocking said shaft to elevate and lower said shares.

1,787,229. TOOL RETAINER FOR PNEUMATIC TOOLS. WILLIAM FRANK ZIMMERMANN, Waverly, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Jan. 10, 1928. Serial No. 245,717. 1 Claim. (Cl. 121—32.)



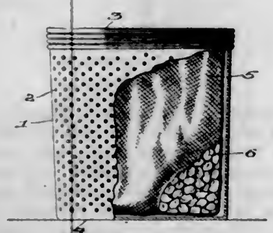
In a tool retainer for a pneumatic tool, the combination of a barrel, a bushing extending slidably into said barrel and having a flange intermediate its ends, a working tool extending slidably into said bushing, key ways in said working tool and in said bushing, keys in the key ways of the bushing extending into the key ways of said tool for retaining said tool in the bushing, a sleeve disposed on the front end of said bushing to retain said keys in position, and a spring threaded to the sleeve and the barrel to hold the sleeve against the flange and thus provide a yieldable seat for the bushing.

1,787,230. CARBURETOR. EDWARD G. ATKINS, Jackson, Mich., assignor to Wolverine Carburetor Company, Jackson, Mich., a Corporation of Michigan. Filed Oct. 24, 1927. Serial No. 228,152. 7 Claims. (Cl. 261—69.)



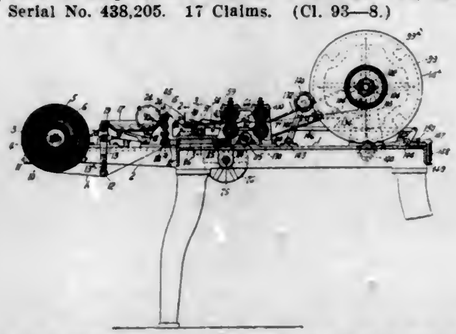
1. In a carburetor, the combination of a mixing chamber having an air inlet and an outlet thereto, a spring pressed valve normally closing the air inlet and actuated to open the air inlet by the excess of atmospheric pressure over the pressure within said mixing chamber, a fuel conduit adapted to lead from a source of fuel supply to said mixing chamber, two fuel valves in said fuel conduit, the first being located nearest to the mixing chamber and the second nearest to the source of fuel supply, interposed means between the air valve and the first of said fuel valves for moving said first fuel valve when the air valve is opened to thereby withdraw the first valve partly from said fuel conduit, a spring normally holding the second fuel valve in a position to close said fuel conduit, a diaphragm bearing against the second fuel valve and flexing under atmospheric pressure when the pressure within said fuel conduit between the fuel valves has decreased sufficient that the excess of atmospheric pressure acting on said diaphragm will overcome the spring, whereupon the second fuel valve is moved to open the fuel conduit, said spring acting on the second fuel valve being of such strength that before the fuel conduit is opened by movement of the second fuel valve a difference in pressure is made between atmospheric pressure and that within the fuel conduit between the fuel valve sufficient to raise a column of liquid fuel equal to the maximum lift ever required in operation.

1,787,231. SANITATION OF REFRIGERATORS. GILBERT C. BACON, Tamaqua, Pa., assignor to Darco Corporation, Wilmington, Del., a Corporation of Delaware. Filed Oct. 25, 1926. Serial No. 144,152. 4 Claims. (Cl. 183—4.)



4. Apparatus for aiding in the sanitation of refrigerators which comprises a body of coarse-grained activated carbon and means for holding said body in free communication with the air inside the refrigerator and for preventing the formation of galvanic couples by said carbon, said means comprising a perforated container adapted to prevent electrical contact of said carbon with oxidizable metals.

1,787,232. TUBE FORMING AND REELING MACHINE. LOGAN A. BECKER and JOHN M. MUNSON, Lakewood, Ohio, assignors to The Dobeckmun Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 22, 1930. Serial No. 438,205. 17 Claims. (Cl. 93—8.)

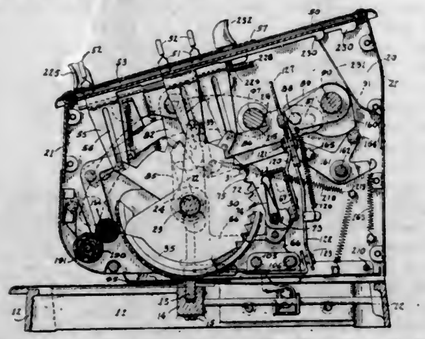


1. In combination, means to support a roll of web material, means to continuously draw said web material from said roll, means to apply a strip of gum along an edge of said drawn web, means to continuously fold said drawn web into a tube and to simultaneously fold the sides of the tube inwardly to form a plicated tube, said web drawing means also serving to press said plicated tube in a flat form, and reeling means driven by said web drawing means for continuously reeling said flattened tube under tension.

1,787,233. INK. CHALFANT E. BIVINS, Brooklyn, N. Y. Filed Apr. 6, 1925. Serial No. 21,214. 11 Claims. (Cl. 134—38.)

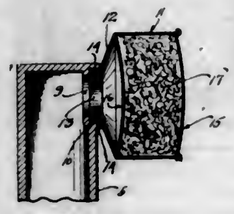
1. An ink containing therein in dry powdered form an admixture of suitable coloring matter, a crystalline organic substance selected from the group consisting of citric acid, benzoic acid, a combination of these acids, salicylic acid, tartaric acid and succinic acid, for avoiding undue precipitation of sediment, and crystalline benzoic acid.

1,787,234. CHECK WRITER. RAYMOND E. BOHRER and WALTER B. PAYNE, Rochester, N. Y., and CHARLES G. TIEFEL, deceased, Rochester, N. Y., by Ella M. Tiefel, executrix, Rochester, N. Y., assignors to The Todd Company, Incorporated, Rochester, N. Y., a Corporation of New York. Filed Feb. 14, 1928. Serial No. 254,313. 30 Claims. (Cl. 101—20.)



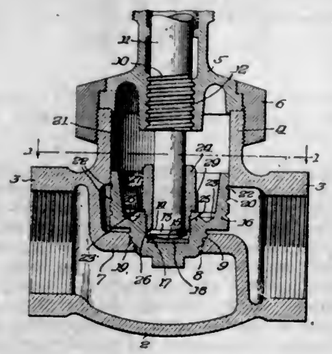
1. In a check writer, the combination of a platen, a plurality of type segments, a shaft on which said segments are mounted, side plates having slots forming guiding means, the ends of said shaft extending into said slots and being guided therein for bodily movement toward and away from said platen, and operating means including a toggle for moving said shaft to shift said type segments toward and away from said platen.

1,787,235. AIR CLEANER AND COUPLING. FRANK A. DONALDSON, Minneapolis, Minn. Filed Aug. 1, 1929. Serial No. 382,686. 5 Claims. (Cl. 183—45.)



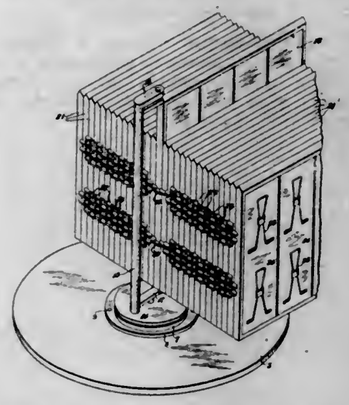
1. An air cleaner having a contracted neck portion formed with an external channel and in said channel an expansible and contractible split spring coupling ring adapted for engagement with a seat into said channel neck is insertable.

1,787,236. VALVE. CARL A. DOPP, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 19, 1928. Serial No. 247,801. 3 Claims. (Cl. 251—46.)



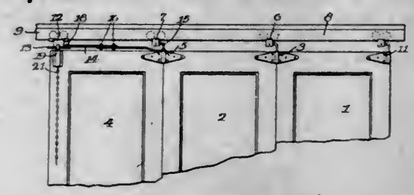
1. In a valve construction in combination, a valve disc having a threaded recess in one side, a stem having an end portion rotatably disposed in said recess, a shoulder on said stem end portion facing outwardly of said disc recess, a hollow nut surrounding said stem and rotatable thereon, threadedly engaged with the threads of said recess and providing a thrust bearing for said shoulder, said disc having a second recess adjacent the first said recess, and a lock washer of distortable metal secured between said nut and disc and having a portion engaged in the second said recess and a portion engaged with one of the sides of said nut for securing said nut and disc against relative rotation.

1,787,237. FILING APPLIANCE. WILLIAM E. DUNNING, Alliance, Ohio, assignor to The McCaskey Register Company, Alliance, Ohio, a Corporation of Ohio. Filed Feb. 24, 1928. Serial No. 256,563. 6 Claims. (Cl. 40—102.)



1. A filing appliance including a base, a revoluble plate on the base, an upright support upon said plate, and a series of upright holders hinged together at their rear ends for swinging apart at their forward ends, one of said holders being connected to said upright support.

1,787,238. GARAGE-DOOR CONSTRUCTION. WILLIAM D. FERRIS, Sterling, Ill., assignor to Frantz Manufacturing Co., Sterling, Ill., a Corporation of Illinois. Filed Apr. 27, 1928. Serial No. 273,168. 13 Claims. (Cl. 20—20.)



1. In sliding door construction for a garage or other building, the combination of one or more sliding door sections, an inwardly swinging door section hinged to one side edge of a sliding door section to swing free of control when the sliding door structure is in closed position, an overhead track section above the doorway, an overhead track section on the side wall of the building, a curved track section connecting the said two tracks together, traveling means to support the door structure on said track sections, so that the entire door structure can be moved out of the doorway and around the curve and into a position at the side of the building, and guiding instrumentalities serving to prevent any swinging movement of this door section during the sliding movement of the door structure on said side wall track, said instrumentalities having engagement with the swinging door at a point thereon a distance from the hinge support thereof, holding the swinging door section to its course.

1,787,239. PRODUCTION OF INTAGLIO PRINTING COLORS. HANNS FLEISCHMANN, Ludwigshafen-on-the Rhine, and OTTO JORDAN, Mannheim, Germany, assignors to I. G. Farbenindustrie Atkiengesellschaft, Frankfort-on-the Main, Germany, a Corporation of Germany. Filed Mar. 13, 1929, Serial No. 346,797, and in Germany Mar. 15, 1928. 4 Claims. (Cl. 134—36.)

1. Intaglio printing colors comprising a finely dispersed coloring material and a solution, in a volatile organic sol-

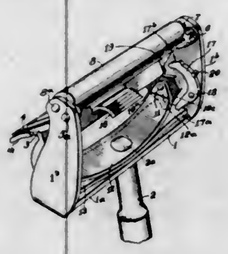
vent, of a resinous product selected from the group consisting of condensation products of a urea with an aldehyde, of organic vinyl esters, and of dibasic organic acids with polyhydric alcohols.

1,787,240. SAFETY RAZOR. HENRY J. GAISMAN, New York, N. Y., assignor, by mesne assignments, to Gillette Safety Razor Company, Boston, Mass., a Corporation of Delaware. Filed July 20, 1927. Serial No. 207,036. 14 Claims. (Cl. 30—12.)



1. A safety razor comprising a frame, a blade holder pivotally carried by the frame to swing through the latter for stropping and a guard pivotally carried by the frame, adapted to extend outwardly from the frame for shaving and to fold within the frame, and spring means cooperative with the guard and operative on opposite sides of the guard pivot for retaining the latter in shaving relation to a blade in the blade holder and for retaining the guard folded respecting the frame.

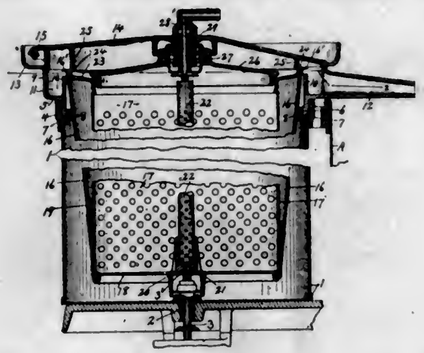
1,787,241. SAFETY RAZOR. HENRY J. GAISMAN, New York, N. Y., assignor, by mesne assignments, to Gillette Safety Razor Company, Boston, Mass., a Corporation of Delaware. Filed Oct. 19, 1927. Serial No. 227,109. 10 Claims. (Cl. 30—12.)



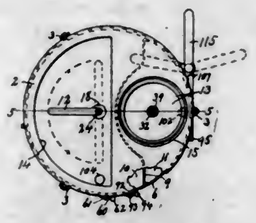
1. A safety razor comprising a frame, a blade holder pivotally carried by the frame to swing therethrough, means to cause the holder to swing through the frame for stropping a blade, a guard pivotally carried by the frame and adapted to swing within the frame beneath the blade holder and the blade, said guard and blade holder having cooperative means to engage when the guard has been moved within the frame under the blade holder to shaving position, and means to retain the guard and blade holder in shaving relation.

1,787,242. CENTRIFUGAL CLOTHES DRYING AND RINSING APPARATUS. PETER E. GELDHOF, Syracuse, N. Y., assignor to Syracuse Washing Machine Corporation, Syracuse, N. Y., a Corporation of Delaware. Filed Aug. 6, 1927. Serial No. 211,115. 4 Claims. (Cl. 210—67.)

1. In a centrifugal clothes drier, a rotary container for the clothes having a vertical foraminous peripheral wall, and a shell including an axially tapered imperforate wall extending circumferentially around the foraminous wall of the container and rigidly connected thereto for deflecting the expelled fluid toward the larger portion of the shell away from the container, a collecting trough communicating with the larger end of the shell for receiving the expelled fluid therefrom, a flange associated with the upper ends of the two walls for directing fluid into the trough, and means for rotating the container.



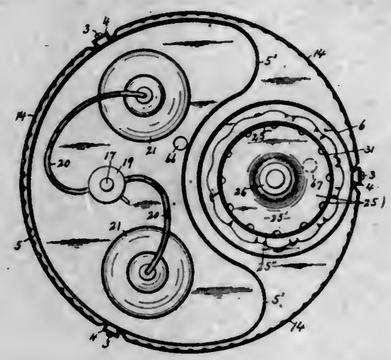
1,787,243. MECHANICAL CLOTHES WASHER AND DRIER. PETER E. GELDHOF, Syracuse, N. Y., assignor to Syracuse Washing Machine Corporation, Syracuse, N. Y., a Corporation of Delaware. Filed Dec. 27, 1927. Serial No. 242,613. 3 Claims. (Cl. 68—15.)



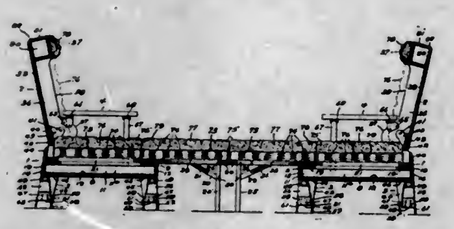
1. Apparatus of the character described comprising a cylindrical vat having a circular bottom, a vertical partition wall extending transversely of the vat and providing two chambers arranged side by side within the vat, a power driven vertical shaft extending upwardly into one chamber, a centrifuge on the upper end of the shaft, a second power-driven vertical shaft extending upwardly into the other chamber closely adjacent the partition wall and substantially midway of its transverse extent, a clothes washing element on the upper end of the second shaft, said element oscillating through an arc of substantially 180° toward and from the partition wall.

1,787,244. MECHANICAL CLOTHES WASHER. PETER E. GELDHOF, Syracuse, N. Y., assignor to Syracuse Washing Machine Corporation, Syracuse, N. Y., a Corporation of Delaware. Filed Feb. 11, 1928. Serial No. 253,693. 1 Claim. (Cl. 68—19.)

In a washing machine of the character described, a cylindrical casing, a vat therein having a cylindrical convex side conforming to the curvature of the casing and disposed adjacent thereto and a cylindrical concave side spaced from the opposite side of the casing and there being lobes on each side on the concave side of said vat, a second cylindrical vat in the casing nesting in the concave side of the first named vat, a rotary centrifuge in the second vat, a vertically reciprocating clothes washer in the first named vat including a vertically reciprocable shaft and a clothes washing element thereon projecting at each side of the shaft within the end lobes.



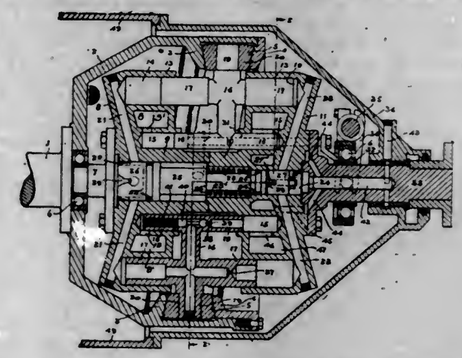
1,787,245. COMBINED CHAIR, TABLE, AND BED. WILLIAM A. GRAHAM, Chicago, Ill., and WILLIAM F. DOYLE, Washington, D. C. Filed Feb. 25, 1926. Serial No. 90,585. 9 Claims. (Cl. 155—41.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928; 370 O. G. 757).



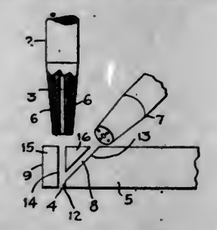
1. A combined chair, table and bed unit adapted to be compactly folded for shipment comprising, a seat frame having a seat portion and an extension, legs foldably mounted on said frame and adapted to support the parts when arranged as a chair, leg extensions foldably mounted on said legs adapted to support the parts when arranged as a table, a combined chair back and table top having cut-away side members, pivotally mounted on said seat portion, adapted to rest on said seat portion when the parts are arranged as a table and folded for shipment, chair arms foldably mounted on said combined chair back and table top, and on said chair frame, adapted to fill the cut-away portions in said chair back and table top, when the parts are arranged as a table and folded for shipment, and removable back and seat cushions adapted to rest on the seat portion and on said extension when the parts are arranged as a bed unit.

1,787,246. VARIABLE-SPEED TRANSMISSION. HERALD B. GREENING, Hamilton, Ontario, Canada, and JAMES W. GALLOWAY, Detroit, Mich., assignors to Galloway Engineering Company, Limited, Hamilton, Ontario, Canada. Filed July 26, 1928. Serial No. 295,427. 9 Claims. (Cl. 192—59.)

1. In a variable speed transmission, a driving member having a cam, a driven member having a plurality of reciprocable members operatively engaging said cam and reciprocated thereby in a direction longitudinally of the axis of the driven member, a plurality of pistons carried by each of said reciprocable members, cylinders co-operating with said pistons, a fluid carried by the cylinders of the driven member and opposing the movement of said pistons, and means for controlling the bye-passing of said opposing fluid.

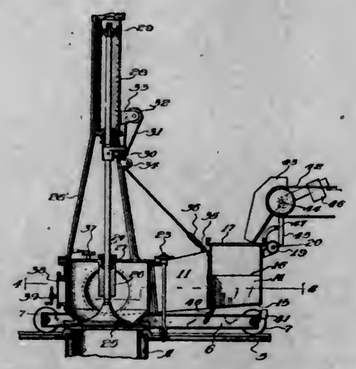


1,787,247. METHOD OF SHAPING EDGES FOR FUSION WELDING. HAROLD J. GROW, East Orange, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 30, 1929. Serial No. 410,672. 6 Claims. (Cl. 148—9.)



1. The method of shaping the edges of ferrous metal plates and sheets to provide an edge composed of two faces in angular relation to each other, which method comprises simultaneously advancing two cuts produced by oxygen jets acting in planes which intersect within the thickness of the metal.

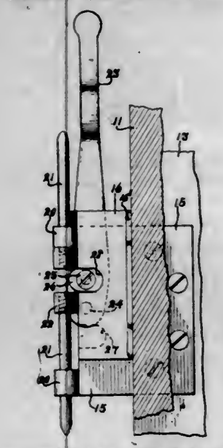
1,787,248. FUEL CHARGER FOR GAS GENERATORS. FRED B. HAYES, Fort Wayne, Ind., assignor to The Gas Machinery Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 17, 1929. Serial No. 378,875. 6 Claims. (Cl. 214—18.)



1. A mechanical fuel charger comprising a charger body having an opening therein to register with the fuel re-

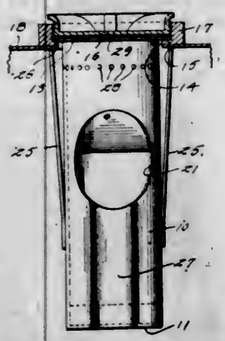
ceiving opening of a generator, a fuel container movably mounted in the charger body and in continuous communication with the interior thereof, hopper-closure means for the fuel container, closure means for the opening in the charger body, means for actuating the closure means for the charger opening, and operative connections between the movable fuel container and said closure means for the charger opening.

1,787,249. CASEMENT-WINDOW HINGE. JOHN L. C. HEINZ, Chicago, Ill. Filed Aug. 24, 1929. Serial No. 388,073. 3 Claims. (Cl. 16—160.)



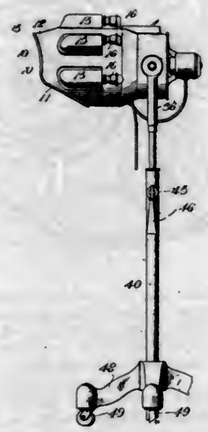
1. A hinge comprising a pair of leaves which are connected to slide longitudinally and to swing on each other and which contain notch means at the connected edges, spaced elements on the connected edge of one leaf, a lever fulcrumed adjacent the edge on the other leaf, and operating means on said lever to operate between said spaced elements for sliding one leaf longitudinally on the other and to move in said notch means for positively retaining the one leaf at either end of its longitudinal movement on the other.

1,787,250. THEFT-PREVENTING ATTACHMENT FOR TANKS. THOMAS W. HUGHES, Rawlins, Wyo. Filed Jan. 17, 1929. Serial No. 333,101. 3 Claims. (Cl. 220—86.)



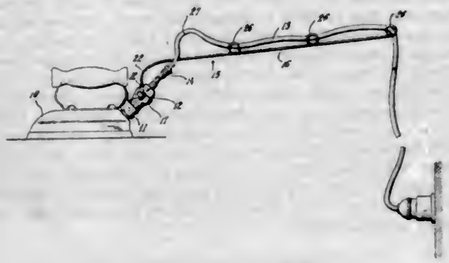
1. An anti-theft attachment for gasoline storage tanks of automobiles and the like comprising a tube having a closed inner end adapted to be inserted in and locked in position in the filling opening of the tank, the wall of the tube having an opening formed therein intermediate its ends, and a partition extending from one side of the tube adjacent the top thereof downwardly through said tube to a point adjacent the bottom thereof and preventing access to said opening through the open end of the tube.

1,787,251. HAIR DRYING AND TREATING APPARATUS. BENNO F. JANCKE, Brooklyn, and JOHN E. KELLEY, New York, N. Y., assignors to Eastern Laboratories, Inc., New York, N. Y. Filed Oct. 3, 1928. Serial No. 310,068. 11 Claims. (Cl. 34—26.)



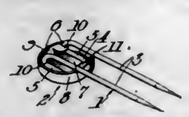
1. An apparatus of the class described comprising a helmet for disposition over the head in service, means associated therewith for uniformly applying radiant heat to a plurality of adjoining zones of the hair and head and means associated with said helmet for causing a stream of air to pass into said helmet and through a restricted space between the wall of the helmet and the hair and head over the said adjoining zones.

1,787,252. EXTENSION SUPPORT FOR FLEXIBLE ELECTRICAL CONDUCTORS. HORATIO D. JONES, Brooklyn, N. Y. Filed Sept. 24, 1924. Serial No. 739,536. 7 Claims. (Cl. 248—30.5.)



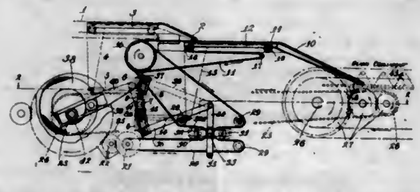
1. A device of the character described comprising a flexible supporting member adapted to be carried at one end by an electrical device provided with a flexible conductor, and double loops arranged in parallelism substantially longitudinally of the supporting member formed at intervals along said member adapted to grip the conductor therebetween to hold said conductor in position upon said member, substantially as specified.

1,787,253. DOUBLE-POINTED PIN FASTENER. GEORGE A. KING, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed July 3, 1930. Serial No. 465,695. 6 Claims. (Cl. 24—152.)



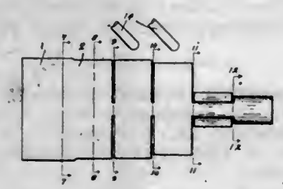
3. In a pin fastener, a pin and a shell, said pin having a pair of legs bent to form a shell-engaging member, and said shell having a bifurcated extension providing deformable fingers adapted to be bent into engagement with the bent portions of said legs between said legs and shell-engaging member.

1,787,254. CONVEYING OR DELIVERING BISCUITS OR LIKE ARTICLES. HERBERT KIRMAN and GEORGE RALPH BAKER, Willesden, England, assignors to Baker Perkins Company, Inc., Saginaw, Mich., a Corporation of New York. Filed Jan. 28, 1930. Serial No. 424,121, and in Great Britain Jan. 30, 1929. 3 Claims. (Cl. 107.—7.)



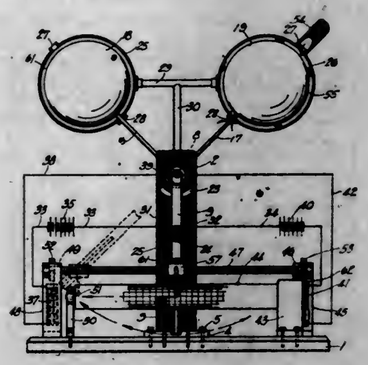
2. In combination, an oven having a continuously traveling conveyor carrying baking pans, a band conveyor traveling continuously at a uniform speed supplying biscuits from a cutting machine, a reciprocating panner blade co-operating therewith, a transfer band conveyor, means imparting travel thereto at alternately faster and slower speeds, said transfer band conveyor positioned to receive biscuits from said supply conveyor in rows grouped into batches, a reciprocating panner blade co-operating with said intermittently moving transfer band, said band and panner blade arranged to deliver said batches to the pans on the oven conveyor, and means for imparting reciprocatory motion to both of said panner blades in synchronism with said alternating faster and slower movements of the transfer band conveyor and in synchronism with each other but in opposite sense.

1,787,255. METHOD OF MAKING SHEET-METAL BEARINGS. WILLIAM H. KLOCKE, Woodhaven, N. Y., assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 1, 1928, Serial No. 316,472. Renewed May 29, 1930. 8 Claims. (Cl. 29—149.5.)



1. In a method of making bearings, the steps which consist in partially shearing a blank from a sheet of metal, forming such blank into open channel form while still integrally united with said sheet, and then severing such blank and forcing the same into closed cylindrical form.

1,787,256. SPECIFIC-GRAVITY BALANCE. DAVID O. LIMA, Oklahoma City, Okla. Filed Nov. 4, 1929. Serial No. 404,634. 7 Claims. (Cl. 234—28.)



1. A device, as described, embodying a pair of hollow shells spacedly supported upon a first standard, one of said shells having openings for admitting one fluid, the other having an inlet and an outlet for another fluid, a pair of hollow airtight floats spacedly disposed upon a second, balanced standard, one of said floats within each of said shells, said standards having their axes of rotation identically located and operable thereon separately.

1,787,257. METHOD OF MAKING LUBRICANT-RECEIVING FITTINGS. GEORGE L. MOORE, Chicago, Ill., assignor to Alemite Corporation, Chicago, Ill., a Corporation of Delaware. Original application filed Apr. 13, 1927, Serial No. 183,441. Divided and this application filed Mar. 2, 1929. Serial No. 344,080. 5 Claims. (Cl. 29—156.)

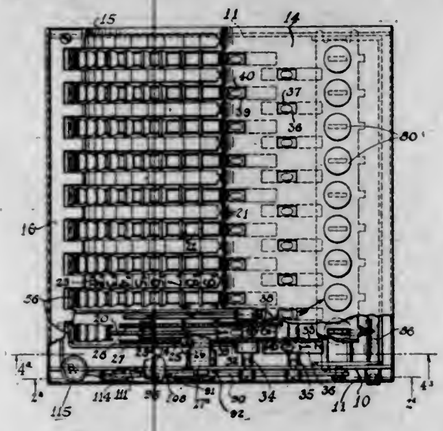


1. The method of making nipples of the type having a substantially cylindrical body and having radially extending lugs projecting from the cylindrical surface thereof, which comprises rolling long rods having a cross section in the form of a circle separated into two arcs by substantially radial projections which extend outwardly from the circular portion for a distance sufficient to provide the length of the lugs, and turning off the projections in a lathe except at the point where the lugs are desired thereby leaving lugs of substantially rectangular cross section, and striking the lugs in a round die to reduce their cross section to circular form.

1,787,258. COMPOSITION FOR USE IN THE MANUFACTURE OF RUBBER AND THE LIKE. CLAYTON OLIN NORTH, Nitro, W. Va., assignor to The Rubber Service Laboratories Co., Akron, Ohio, a Corporation of Ohio. Filed Aug. 24, 1929. Serial No. 388,279. 9 Claims. (Cl. 18—53.)

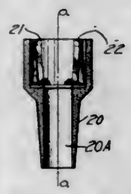
2. As a new composition of matter the product formed by combining the reaction product of substantially three molar portions of butylaldehyde and one molar portion of aniline, the reaction product of substantially three molar portions of acetaldehyde and substantially two molar portions of aniline, creosote oil and pine oil.

1,787,259. CALCULATING MACHINE. WALTER B. PAYNE, RAYMOND E. BOHRER, and WILLIAM FUHLBORN, Rochester, N. Y., assignors to The Todd Company Inc., Rochester, N. Y., a Corporation of New York. Filed Jan. 15, 1927. Serial No. 161,451. 4 Claims. (Cl. 235—81.)



3. In a calculating machine, the combination with an oscillatory operating member, of gear means operatively connected to said oscillatory member to oscillate therewith in both directions, gear means operatively connected to said oscillatory member to move therewith in one direction, a pair of shafts, a gear on one of said shafts meshing with one of said gear means, an indicating device operatively connected to said gear, a second gear on said one of said shafts operatively connected to the other of said gear means, a gear on the second of said shafts meshing with said second gear, and an indicating device operatively connected to said gear on said second shaft.

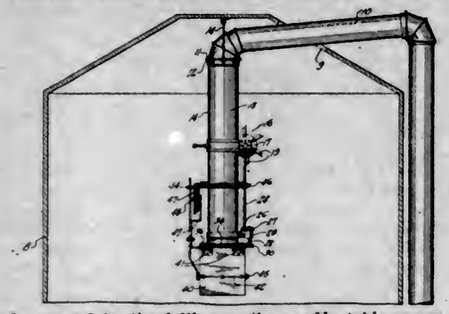
1,787,260. PLUGGING DEVICE. JOSEPH H. PENGILLY and VERNON BROWN, Los Angeles, Calif., assignors to Diamond Electrical Manufacturing Company, Ltd., Los Angeles, Calif., a Corporation of Delaware. Filed May 14, 1923. Serial No. 638,825. 6 Claims. (Cl. 173—332.)



1. In a plugging device, the combination of: a primary insulating support; a plurality of pairs of fingers carried on said support, the fingers of each pair being in mutual electrical contact with each other when the device is not in use; a secondary insulating support; a pair of active members carried by said secondary support and insulated from each other, said members being so formed as to readily pass between and separate any pair of said fingers; and inactive members adapted to pass between the fingers of all the other pairs of fingers carried by said primary insulating supports to separate and insulate the fingers of each pair from each other.

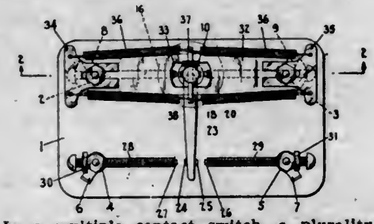
1,787,261. ENSILAGE DISTRIBUTOR. FRED C. REINKE, Mukwonago, Wis. Filed May 5, 1928. Serial No. 275,441. 3 Claims. (Cl. 302—60.)

1. An ensilage distributor comprising a tubular body portion having an opening at one end for receiving falling ensilage and having an opening at its other end for discharging the same, a spreading member connected to the tubular body portion adjacent the discharge opening, a propeller extending within the tubular body portion



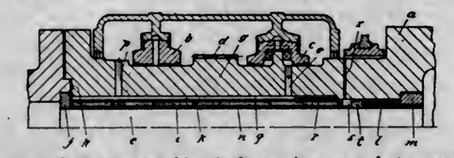
and operated by the falling ensilage, adjustable means for guiding the ensilage toward said propeller, and means operated by said propeller for imparting reciprocal motion to said spreading member.

1,787,262. SWITCH. LLOYD THOMAS ROBERTON, Milwaukee, Wis. Filed Sept. 20, 1929. Serial No. 393,879. 8 Claims. (Cl. 200—7.)



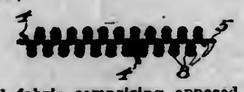
1. In a multiple contact switch, a plurality of contacts, a post secured to a source of current supply, contacts on said post, means to hold said contacts normally out of contact with the first named contacts, and means to close one or more of said contacts.

1,787,263. STEAM TURBINE. KARL RÖDER, Hanover, Germany. Filed Dec. 16, 1927, Serial No. 240,506, and in Germany Dec. 18, 1926. 6 Claims. (Cl. 308—77.)



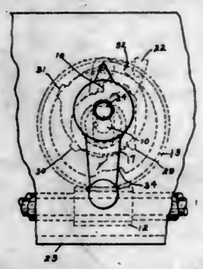
1. A hollow rotatable shaft serving as a hot pressure fluid conduit and having a central hot pressure fluid conducting pipe of suitable diameter to form an annular chamber between the pipe and the inner shaft wall, to prevent heat from flowing from the pipe to the shaft, and means for circulating cooling fluid through said chamber.

1,787,264. KNITTED FABRIC. MORRIS B. GOLDBERG, Philadelphia, Pa., assignor to Eagle Knitting Mills, Inc., Philadelphia, Pa., a Corporation of Delaware. Filed Nov. 10, 1930. Serial No. 494,524. 7 Claims. (Cl. 66—190.)



1. A knitted fabric comprising opposed rows of interlooped knitted loops of a loosely twisted thread having a relatively taut core strand, and an un-knitted loosely twisted thread, having a relatively taut core, extending through the fabric in a substantially straight formation intermediate of the opposed rows of interlooped knitted loops and encased therebetween;—said fabric being relatively non-stretching transversely.

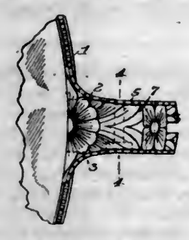
1,787,265. INTERMITTENT DRIVING MECHANISM. DALLAS F. GRAHAME, Montreal, Quebec, Canada, assignor to Sanford Riley Stoker Corporation, Worcester, Mass., a Corporation of Massachusetts. Filed Oct. 11, 1924. Serial No. 743,038. 11 Claims. (Cl. 74—54.)



1. A driving mechanism comprising a continuously rotatable driving shaft, a rotary driven member, a pawl fastened to one member and a cooperating ratchet connected to the other, and a manually adjustable cam device including relatively adjustable cams and a cam follower connected with said pawl, said cams being so constructed that they may either provide a dwell throughout the entire cam surface and thus cause the pawl to remain in engagement with the ratchet for an indefinite period or they may provide a follower lifting portion extending above the dwell and thus remove the pawl from engagement with the ratchet at stated intervals, whereby the driven shaft may be rotated continuously or intermittently for a predetermined period of time.

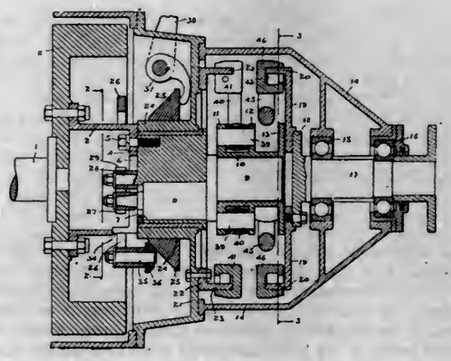
7. A driving mechanism comprising a driver, a driven member, a pawl and ratchet connection therebetween, a cam follower arranged to connect and disconnect the pawl from the ratchet, a cam to control said cam follower comprising two relatively adjustable parts, one serving to provide a dwell portion and the other having follower lifting portions of different lengths capable of holding the follower lifted for different time intervals, said follower lifting portions being movable successively from an ineffective position behind the dwell portion to an effective follower lifting position, and means for moving the cam and cam follower relatively so that the pawl may engage the ratchet and cause the driven member to rotate for a single turn after the driver has rotated through a predetermined number of turns as determined by the effective length of the follower lifting portion.

1,787,266. METHOD OF MAKING LENS MOUNTINGS. HENRY W. GROM, Newark, N. J., assignor to Continental Optical Frame Company, Newark, N. J., a Corporation of New Jersey. Filed Jan. 29, 1930. Serial No. 424,290. 9 Claims. (Cl. 29—148.)



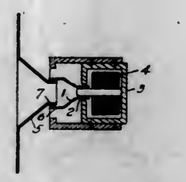
1. The method of making lens mounts comprising hinge members, which consists in forming a plate and securing the same to the front faces of the hinge members spaced from each other, and cutting out that portion of the plate positioned over the gap between the hinge members.

1,787,267. VARIABLE-SPEED TRANSMISSION. HERALD B. GREENING, Hamilton, Ontario, Canada, and JAMES W. GALLOWAY, Detroit, Mich., assignors to Galloway Engineering Company, Limited, Hamilton, Ontario, Canada. Filed Oct. 26, 1928. Serial No. 315,190. 8 Claims. (Cl. 74—92.)



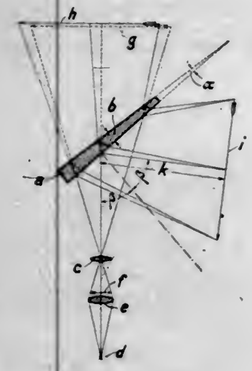
1. In a variable speed transmission, the combination with a stationary element and the driving and driven members, of concentrically arranged clutch rings carried respectively by said stationary element and driven member, a plurality of clutch elements engaging each of said rings, transmission means for supporting said clutch elements adapted to transmit power from the driving to the driven member, and manually controllable means carried by the driving member adapted during the operation of the latter to be controlled to govern the relative working positions of said clutch transmission means in accordance with torque requirements independent of the speed of rotation of said driving member.

1,787,268. RADIO LOUD-SPEAKER. BRYAN GROOM, Galashiels, Scotland. Filed Apr. 29, 1929, Serial No. 358,805, and in Great Britain May 14, 1928. 3 Claims. (Cl. 181—31.)



1. A radio loud speaker of the class described comprising, in combination, a diaphragm and a non-resonant baffle arranged in telescopic relationship with said baffle and with the end nearest said diaphragm within said diaphragm.

1,787,269. DEVICE FOR PARTIAL DEFLECTION OF A CONICAL PENCIL OF IMAGING RAYS. GERHARD HANSEN, Jena, Germany, assignor to the Firm: Carl Zeiss, Jena, Germany. Filed Apr. 17, 1929, Serial No. 355,965, and in Germany Apr. 23, 1928. 1 Claim. (Cl. 81—1.)



A device for partial deflection of a conical pencil of imaging rays and for combination of the deflected rays in a plane having from the locus of deflection a medial distance k, consisting of a wedge of transparent material, whereby of the medial thickness b of the said wedge, its wedge-angle α, its refractive index n and the angle β, at which the axial ray falls on the wedge, at least approximately the two following equations are complied with:

$$k=\frac{b}{\alpha}\cdot\frac{\sin\beta.\cos^2\beta}{n^2-\sin^2\beta},$$

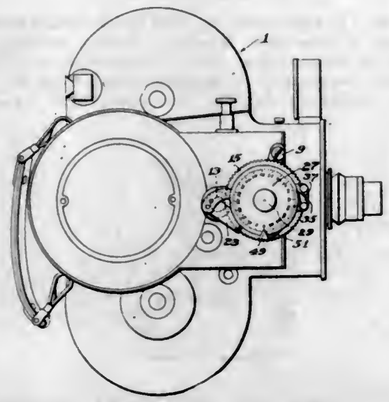
$$2\sin^2\beta=3n^2-1-\sqrt{(1-3n^2)^2-4n^2}.$$

1,787,270. STAND FOR MOTION-PICTURE-PROJECTOR APPARATUS. ARTHUR C. HAYDEN, Brockton, Mass. Filed Sept. 27, 1926. Serial No. 137,858. 8 Claims. (Cl. 248—41.)



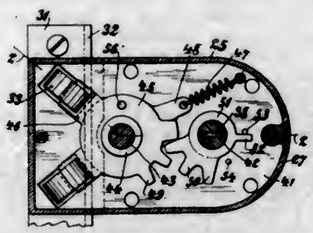
1. A stand comprising a post, legs pivotally connected intermediate their ends to the post and having arms adapted to extend along the post, and rubber trips for the arms adapted to engage and be compressed against the post thereby to limit the outward spread of the legs and stabilize the post.

1,787,271. AUDIBLE FOOTAGE METER AND EXPOSED-FILM INDICATOR FOR MOTION-PICTURE CAMERAS. ARTHUR C. HAYDEN, Brockton, Mass. Filed Feb. 10, 1930. Serial No. 427,156. 12 Claims. (Cl. 116—73.)



1. In a unitary device for application to a motion picture camera, the combination of means for automatically audibly signalling length increments of feed of film in the camera, and means cooperating therewith for automatically indicating the length of exposed film.

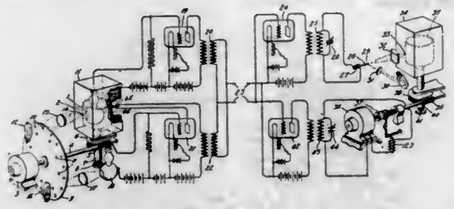
1,787,272. DOOR LOCK. JOHN HOLTZMAN, New York, N. Y. Filed Mar. 12, 1925. Serial No. 14,980. 21 Claims. (Cl. 70—46.)



3. A lock comprising a casing, a stem rotatable therein, a stud integral with said casing, a hub rotatable thereon, operative connections between said stem and hub, integral bolts extending angularly from said hub, a keeper having extending elements projecting through said casing to engage said bolts, and a spring urging said bolts into engagement with said keeper elements.

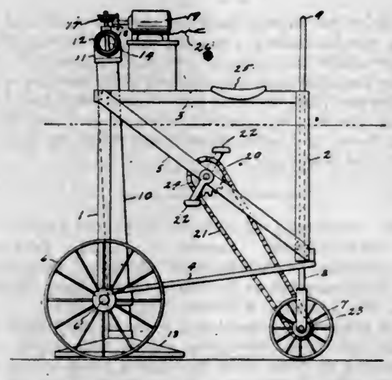
1,787,273. ELECTRICAL TRANSMISSION OF PICTURES. CHARLES A. HOXIE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Original application filed Sept. 23, 1924, Serial No. 739,423, now Patent No. 1,648,687, dated Nov. 8, 1927. Divided and this application filed Mar. 23, 1927. Serial No. 177,684. 5 Claims. (Cl. 178—7.)

1. The combination of a movable member adapted to support a light sensitive member, a screen arranged to surround said movable member and provided with a small opening through which successive small areas of said light sensitive members are adapted to be exposed, a light source arranged to produce a beam of light alined with said opening when at rest, and means arranged to vibrate said beam



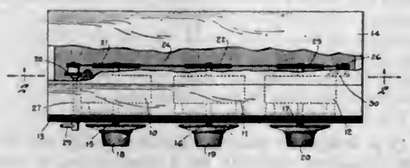
lineally and to produce on said screen an illuminated band which includes said opening and extends on opposite sides thereof.

1,787,274. APPARATUS FOR CLEANING SWIMMING POOLS. JORDIE J. JOHNSTON, Abilene, Tex. Filed Dec. 3, 1928. Serial No. 323,380. 3 Claims. (Cl. 210—207.)



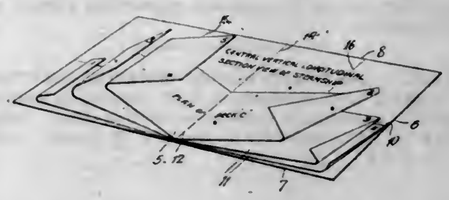
1. In an apparatus for cleaning swimming pools without emptying the pools, comprising a traveling frame and a cleaning device carried by the traveling frame, said cleaning device comprising a substantially vertical pipe having the lower end flared, a shaft extending the length of said pipe and provided with a plurality of spaced propellers and means operatively engaged to the upper end of said shaft for revolving the shaft and propellers.

1,787,275. UNICONTROL APPARATUS FOR RADIO RECEIVING SETS. LESTER L. JONES, Oradell, N. J. Filed June 23, 1924. Serial No. 721,628. 12 Claims. (Cl. 74—7.)



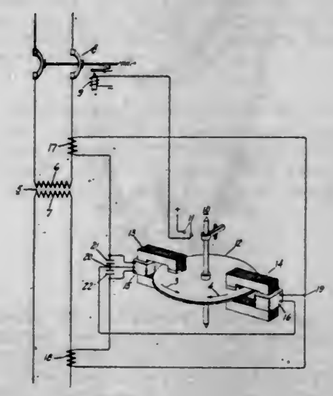
1. In an apparatus of the class described, a plurality of tuning units each provided with a separate control handle or dial, a flexible connection means between the units for mechanically coupling the units for simultaneous adjustment and means for mechanically uncoupling the units to permit independent adjustment by the operation of the separate control handles.

1,787,276. PRINTED FOLDER. WALTER H. JONES, Hasbrouck Heights, N. J. Filed June 14, 1928. Serial No. 285,316. 1 Claim. (Cl. 281—15.)



A printed folder comprising a booklet including a plurality of flexible booklet sheets arranged in a face-to-face relation and connected to each other along a transverse medial line and having leaf portions at opposite sides of said medial line serving as leaves of the booklet, said leaf portions being creased along definite lines parallel to said medial line; and a flexible cover sheet secured to said booklet sheets along the line of union thereof and forming in part a complete cover for the booklet, said cover being creased along definite lines in correspondence with said definite lines of said leaf portions and extending in the direction of said transverse medial line for a sustantial distance beyond a margin of the leaf portions of the booklet when said booklet is in an open position so as to provide space for exhibiting material comparable with material to be provided on respective pages of said booklet, said extending part being undivided in alignment with said transverse medial line and presenting an unbroken surface, said extending part being creased along definite parallel lines located correspondingly to the first-mentioned definite lines and adapted to fold over as a whole upon the open pages of said booklet; and said cover, booklet and extending part being adapted, when said extending part is folded over upon said booklet, to be folded simultaneously along their respective said definite lines into a compact unit with said extending part closed within the booklet of such unit.

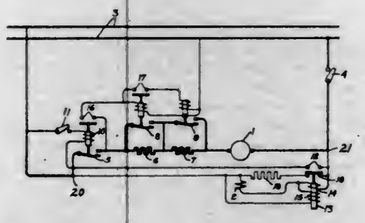
1,787,277. PROTECTIVE ARRANGEMENT. LUKE F. KENNEDY, Philadelphia, Pa., assignor to General Electric Company, a Corporation of New York. Filed Aug. 21, 1929. Serial No. 387,523. 10 Claims. (Cl. 175—294.)



1. In combination with an electric apparatus having windings subject to transient magnetizing currents and a circuit interrupter for controlling the circuit of said windings, means for controlling said interrupter including a differential relay having a movable member, restraining and operating means for controlling the movement there-

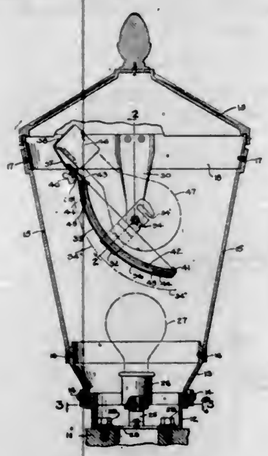
of respectively connected to be energized in accordance with the sum of and the difference between the currents of said windings, and means for additionally restraining the movement of said member only in accordance with the second harmonic of the transient magnetizing current of said apparatus.

1,787,278. ELECTRIC-MOTOR-CONTROL SYSTEM. WALTER O. LUM, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 3, 1928. Serial No. 274,908. 8 Claims. (Cl. 172—179.)



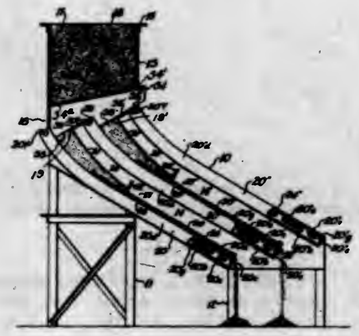
1. The combination with a motor provided with a shunt field winding, of means responsive to the current in said winding and additional means responsive to the voltage existing across said field for controlling the energization of said motor.

1,787,279. LIGHTING UNIT. HARRY YALE MAGEOCH, Philadelphia, Pa., assignor to Electric Service Supplies Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 16, 1928. Serial No. 285,853. 17 Claims. (Cl. 240—25.)



1. In a lighting unit provided in its upper portion with an annular band, an adapter for facilitating the mounting of a flood-lighting unit therein comprising a pair of fixed lateral supports respectively secured in downwardly extending relation to diametrically opposed sides of said band, means pivotally carried upon said supports for supporting a reflector, and a lamp receiving socket also secured upon said reflector supporting means and arranged with respect thereto such that when a lamp is inserted in said socket it bears a constant fixed relation with respect to said reflector irrespective of any adjusted position of said adapter.

1,787,280. DRIER FOR SAND AND THE LIKE. HENRY WILLIAM NAGEL, Alliance, Ohio, assignor to The Colonial Iron Works Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 9, 1930. Serial No. 419,549. 19 Claims. (Cl. 34—33.)

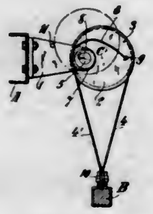


1. A drier for drying material such as sand and the like, the drier including a heating member having a surface over which the material may flow, means for delivering the material upon the surface, walls forming a material flow duct, the inner surface of one of the duct walls including the heating member surface over which the material flows, and walls forming a ventilating duct adjacent to the flow duct.

1,787,281. PROCESS OF TREATING ROSIN AND PRODUCT THEREFROM. ROBERT C. PALMER, Pensacola, Fla., assignor to The Newport Company, Carrollville, Wis., a Corporation of Delaware. Filed June 28, 1928. Serial No. 289,079. 9 Claims. (Cl. 87—2.)

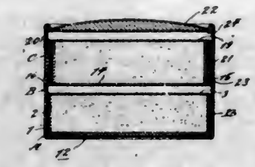
1. The process of preparing a rosin in solid form substantially free from crystalline abietic acid, which comprises adding to rosin while in a liquid phase an amount of caustic alkali sufficient to neutralize between 2.5 and 6% of the abietic acid content of the rosin to be treated, thereby forming a relatively small quantity of an alkali metal abietate, and allowing the treated rosin to solidify.

1,787,282. SNUBBER. PETER NICHOLAS PETERS, Brooklyn, N. Y. Filed Mar. 1, 1928. Serial No. 258,816. 51 Claims. (Cl. 267—10.)



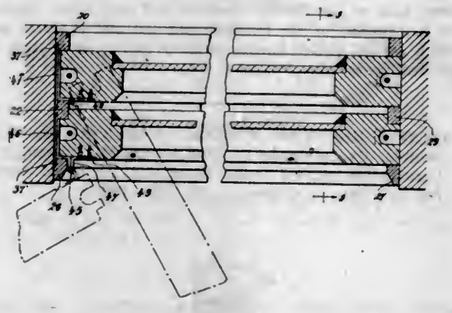
6. In a device for damping relative oscillation of two spring connected elements of a mechanism, a member rotatably mounted on one of said elements, means made operative by a swing of said oscillation for causing said member to rotate to an angle commensurate with the amplitude of said swing, and means made operative by the recoil from said swing for causing the force of said recoil to be applied to said member at points where it is adapted to produce opposing torques thereon in definite relation to said angle.

1,787,283. MULTIPLE-COMPARTMENT CONTAINER. GUSTAVUS A. PFEIFFER, New York, N. Y. Filed Sept. 25, 1929. Serial No. 394,938. 4 Claims. (Cl. 132—82.)



4. In a multiple compartment face powder box, the combination with a lower powder container having a seal forming its upper closure member thereof, an outer shoulder along its lower peripheral edge, there being a supply opening in the bottom thereof, and a permanent seal for said supply opening after the powder has been received, of an intermediate portion having an upper powder container and a cover member for a lower powder container, the upper powder container having a seal formed in its upper closure member and a shoulder along its lower peripheral edge, and an upper cover for the upper powder container, the lower edge of the cover member of the intermediate portion engaging the shoulder of the lower powder container and the lower edge of the upper cover member engaging the shoulder of the upper powder container to form spaces above the seals of said powder containers.

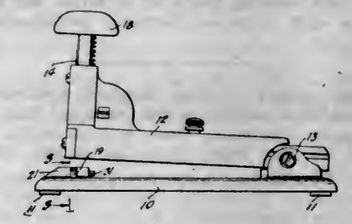
1,787,284. SASH WINDOW. ALFONSO PIETRONIGRO, Ozone Park, N. Y. Filed June 8, 1929. Serial No. 369,382. 4 Claims. (Cl. 20—50.)



1. In a sash window, a window frame provided with vertical runways, and upper and lower sash frames slidable within said runways, hinged structures at one side of said frame, each comprising a plate member and a hinged member pivotally connected thereto, said hinged member being attached to the corresponding sash frame, and said plate member being vertically slidable within the corresponding runway, guide members defining the runways at the opposite side of said frame, each having a removable section permitting swinging of said sash frames past said guide members, when removed, said removable sections being spaced from both ends of said runways, and a sashweight detachably connected to each sash frame at said opposite side.

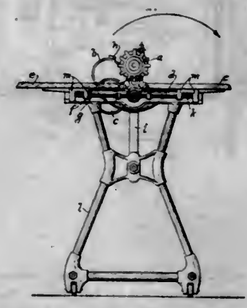
1,787,285. CLINCHING MEANS FOR STAPLING MACHINES. FRIDOLIN POLZER, South Norwalk, Conn., assignor to The E. H. Hotchkiss Company, Norwalk, Conn., a Corporation of Connecticut. Filed Apr. 19, 1930. Serial No. 445,750. 10 Claims. (Cl. 1—3.)

1. In a stapling machine a movable plunger for driving substantially U-shaped staples, an anvil provided with clinching surfaces to bend the prongs of the staples, said surfaces being arranged in pairs to set the staples in different manners, one of the surfaces forming a member



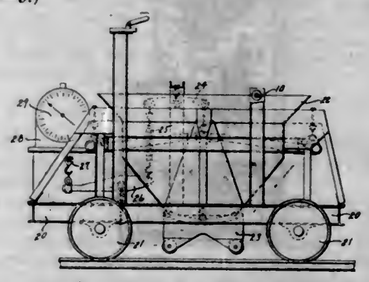
of two different pairs, and said anvil being shiftable to bring either pair of clinching surfaces in operative position.

1,787,286. WASHING MANGLE. CARL RIEGER, Aalen, Germany. Filed Jan. 13, 1928, Serial No. 246,595, and in Germany Jan. 20, 1927. 1 Claim. (Cl. 312—30.)



In combination, a table comprising spaced frame members, a rod carried by one of said frame members, a pair of table top sections, at least one of which is mounted on said rod for swinging movement to and from a horizontal position and also for sliding movement towards and from the other section, mangle supporting brackets each pivotally supported at one end beneath said other table top section for swinging movement between a substantially horizontal position to dispose a mangle carried by said brackets above the table top and a substantially vertical position in which the mangle is suspended beneath the table top, and means carried upon the lower side of the slidable table top section for cooperation with the free ends of said brackets to support the latter in their horizontal positions.

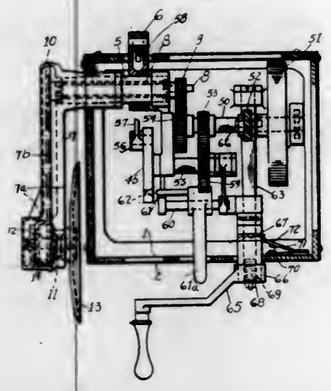
1,787,287. AUTOMATIC RECORDING MEANS FOR DUMP CARS. EUGENE W. SCHELLENTRAGER, Cleveland, Heights, Ohio, assignor to The Atlas Bolt & Screw Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 7, 1927. Serial No. 173,556. 4 Claims. (Cl. 265—9.)



1. In combination with a dump scale car arranged for movement along a way between loading and dumping po-

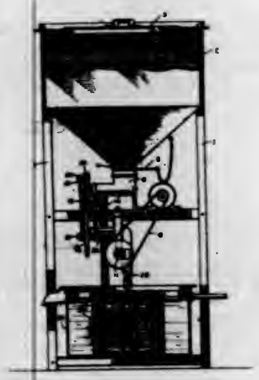
sitions and provided with means for weighing the load therein and for recording said weight, means for controlling said car movement, means dependent thereon for presetting said recording means for actuation, and means for delaying said actuation during a predetermined time interval.

1,787,288. MEAT SLICER. ELMER G. STRECKFUSS, Cincinnati, Ohio, assignor to The Cincinnati Time Recorder Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 20, 1926. Serial No. 96,296. 21 Claims. (Cl. 146—103.)



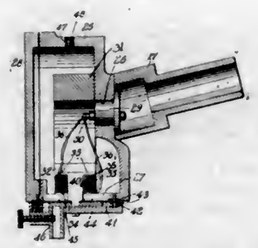
1. In a meat slicing machine, a meat advancing device having a meat clamp thereon a revolving knife having a path of movement to slice the meat, and means movable to a position in coincidence with the plane of cut of the revolving knife and arranged as an abutment against which meat may be crowded to give it a surface prepared for a slicing operation of the knife, said means formed as a hinged plate, and means for so hinging the plate that it moves to position by gravity out of the plane of cut of the knife.

1,787,289. REAGENT FEEDER. GEORGE G. THOMAS, Hillside, Ariz., assignor to American Cyanamid Company, New York, N. Y., a Corporation of Maine. Filed Nov. 28, 1928. Serial No. 322,341. 2 Claims. (Cl. 259—8.)



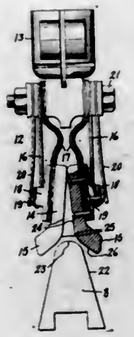
1. A method of feeding a reagent which comprises intermittently delivering a quantity thereof to a receiving tank, constantly supplying a quantity of liquid menstruum thereto, agitating both reagent and menstruum and constantly overflowing menstruum and reagent from the tank.

1,787,290. ELECTROMAGNETIC PICK-UP DEVICE FOR PHONOGRAPHIC RECORDS. LINCOLN THOMPSON, Naugatuck, Conn., assignor to Wm. H. Bristol Talking Picture Corporation, Waterbury, Conn., a Corporation of Connecticut. Filed Jan. 7, 1930. Serial No. 419,009. 6 Claims. (Cl. 179—100.41.)



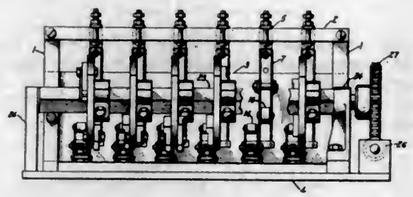
2. An electrical transmitter for phonographs, comprising a closed casing having an opening therethrough, a permanent U-shape magnet mounted in the casing with separated pole pieces at its ends and extending over said opening, a transmitting coil carried by the pole pieces and having a passageway therethrough coaxial with the said casing opening and the gap between the pole pieces, a flexible member secured to the casing over its opening to seal the same, a reed of soft iron fixedly secured to the inner face of the flexible member and extending through the passageway of the transmitting coil and the said gap, and a stylus holder fixedly secured to the outer face of the flexible member.

1,787,291. ELECTRIC SWITCH. CARL THUMIM, Philadelphia, Pa., assignor to General Electric Company, a Corporation of New York. Filed Nov. 22, 1928. Serial No. 321,190. 4 Claims. (Cl. 200—166.)



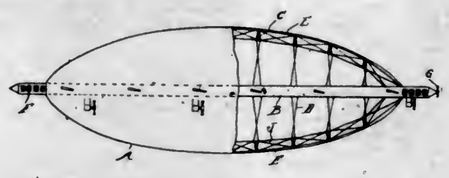
1. An electric switch comprising a wedge contact member, a cooperating contact member having contact plates arranged to engage opposite sides of the wedge contact member, and means for supporting said contact plates and yieldingly opposing outward movement thereof, said means being loosely connected with said contact plates to cause them to engage each other at their rear portions and rock about the point of engagement during the withdrawal movement of the wedge.

1,787,292. CIRCUIT-CONTROLLING DEVICE. GEORGE R. TOWNSEND, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 3, 1928. Serial No. 317,095. 10 Claims. (Cl. 200—47.)



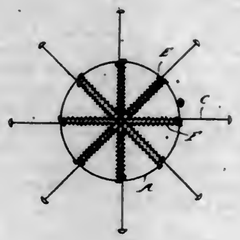
1. The combination of a movable switch member biased to one position, means for holding the switch member in another position against its bias to said one position, and a movable member for operating the switch member to said one position upon a predetermined movement of the operating member in one direction and for controlling said holding means to release the switch member for operation in accordance with its bias upon movement of the operating member in the other direction.

1,787,293. SAFETY AIRCRAFT. WILLIS C. WARD, Orchard Lake, Mich. Filed July 2, 1928. Serial No. 289,953. 4 Claims. (Cl. 244—3.)



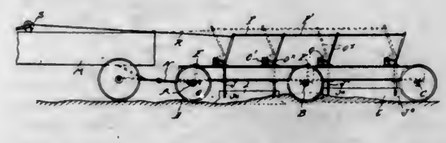
1. A safety aircraft comprising a gas inflated shell and a compartment extending axially of said shell and projecting beyond the end of the same.

1,787,294. SAFETY DEVICE FOR AIRCRAFT. WILLIS C. WARD, Orchard Lake, Mich. Filed Oct. 1, 1928. Serial No. 309,528. 4 Claims. (Cl. 244—30.)



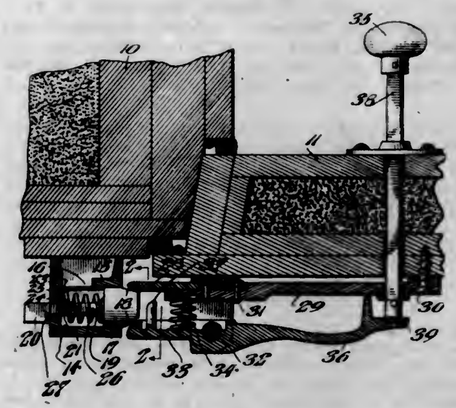
1. The combination with the fuselage of an aircraft, of telescopic rods projecting beyond each of the sides thereof and resilient means for opposing the inward telescoping of the rods and thereby absorbing a portion of the shock.

1,787,295. GRADER. WILLIS C. WARD, Orchard Lake, Mich. Filed Nov. 26, 1928. Serial No. 321,934. 4 Claims. (Cl. 37—181.)



1. A grade comprising forward, rear and intermediate wheeled axles, reach frames respectively connecting said forward and rear axles with the intermediate axle and so as to provide pivotal connection between said frames, planer blades carried by the forward reach frame and spreader blades carried by the rear reach frame.

1,787,296. DOOR FASTENER. GUNTHER PHILIP WILD, Philadelphia, Pa. Filed Aug. 27, 1929. Serial No. 388,693. 4 Claims. (Cl. 292—340.)

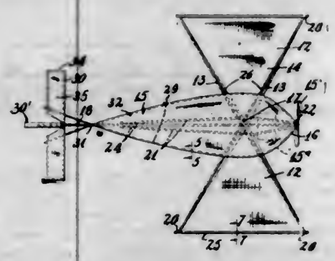


1. A latch device of the character stated comprising a casing having a relatively large rectilinear opening therein said casing being carried by a door jamb, a keeper the nose of which has opposed bevelled edges, the major part of said keeper being mounted within said casing, a horizontally disposed rod of reduced rectangular cross-section extended outwardly from said keeper nose and penetrating said rectilinear opening in said casing, the extended end of said rod having an enlarged portion of rectilinear cross-section and having a shoulder for engaging the outer face of said casing to limit inward movement of said rod, means including a member of substantially L-shaped cross section the longitudinal axis of which is arranged in parallelism with the end of said rod through said relatively large opening in said casing for retaining said rod with respect to said casing, and a spring interposed between the inner end of said keeper nose and said means.

1,787,297. GLIDER PLANE. JOSEPH C. YECKER, Lancaster, Pa. Filed May 29, 1930. Serial No. 457,138. 8 Claims. (Cl. 244—12.)

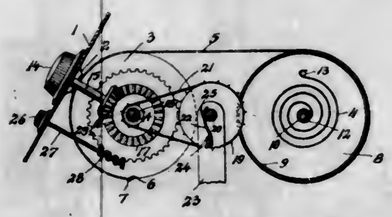
1. A glider, comprising transverse main wings consisting of a frame including crossed flexible rods and covering material forming wings simulating a bow tie, a longitudinal glider body above said main wings and having its nose located to the front of the point of crossing of said rods and including a longitudinal rod, a resilient frame connected with the outer ends of said main

wings and holding said body spaced from said main wings, shaper rods attached at their front ends on said nose and intermediate of their ends on said crossed rods near the



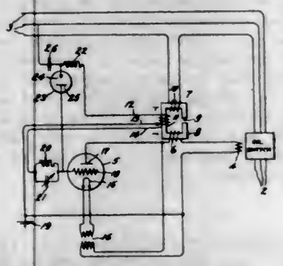
point of crossing, and means for adjustably connecting the rear ends of said shaper rods with said longitudinal rod for adjusting the bowed condition of said main wings.

1,787,298. RADIO DIAL CONTROL. HENRY A. ZIOLA, Milwaukee, Wis., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a Corporation of Delaware. Original application filed Apr. 5, 1928, Serial No. 267,591. Divided and this application filed Jan. 24, 1929. Serial No. 334,704. 5 Claims. (Cl. 116—124.1.)



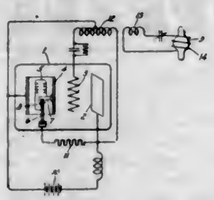
1. In a radio tuning device of the class described, a shaft, an indicator movable with said shaft, a tuning member shaft, means for causing movement of said indicator and of the tuning member shaft, said means comprising a chain and sprocket device mounted on said shafts, instrumentalities for operating said means, and a device for taking up slack in said chain.

1,787,299. CONTROL SYSTEM. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 15, 1926. Serial No. 81,535. 9 Claims. (Cl. 175—320.)



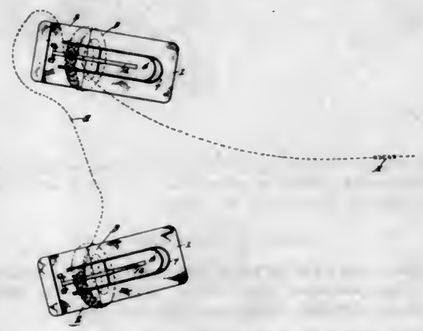
9. The combination of a plurality of circuits, means for interconnecting said circuits, an electric valve including a cathode and anode connected to said interconnecting means and a grid for controlling the transmission of current between said cathode and anode, means for producing component voltages respectively proportional to the voltage and current of one of said circuits, and means connected between said cathode and grid for causing said valve to be opened only when the resultant sum of said component voltages exceeds a predetermined value, said means including a second electric valve responsive to a predetermined voltage to transmit current, and a circuit through which said current and voltage are applied to said valve.

1,787,300. ELECTRIC-DISCHARGE DEVICE. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 16, 1927. Serial No. 233,722. 6 Claims. (Cl. 250—27.)



1. An electron discharge device comprising a receptacle, an anode and cathode mounted in the receptacle, the cathode including a heater element, said heater element being mounted in the receptacle and electrically connected with the cathode, and current responsive means for breaking the contact between the heater element and cathode.

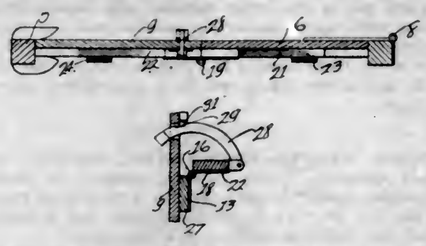
1,787,301. METHOD AND APPARATUS FOR CONTINUOUS WIRE FEEDING. CHARLES F. BAILEY, Peoria, Ill., assignor to Keystone Steel & Wire Company, Peoria, Ill., a Corporation of Illinois. Filed June 21, 1929. Serial No. 372,624. 5 Claims. (Cl. 140—125.)



1. The method for continuous and uniform wire feeding which consists in providing a plurality of spaced and independent bundles of coiled wire; welding the end of the wire at the rear of one bundle to the end of the wire at the front of another bundle; feeding off the wire from the front of the first mentioned bundle and when the wire of said bundle is completed automatically transferring the feeding of wire to the other bundle, and continuing such method of feeding by supplying additional bundles of coiled wire and welding the wires of the respective bundles together and alternately furnishing a continuous supply of wire by transference of feed from one bundle to the other.

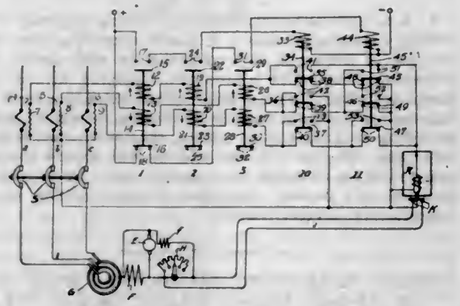
1,787,302. DOOR. DIETRICH C. BAKEHOUSE, North Hollywood, Calif. Filed June 5, 1929. Serial No. 368,597. 1 Claim. (Cl. 20—20.)

In a device of the character described a pair of doors hingedly supported, said doors being hinged one to the other, a locking bar hinged to said doors, said locking bar comprising two sections hinged one to the other and means for moving said locking bar from a position parallel to said doors to a position at right angles to said doors, said means including a link secured to said locking



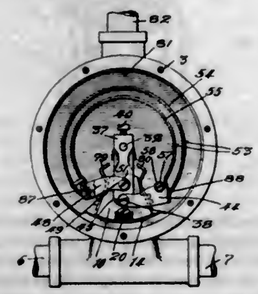
bar and extending through a slot formed in said doors, and means for engaging said link for the purpose of maintaining said link in adjusted position.

1,787,303. AUTOMATIC ELECTRIC REGULATOR OR OVERLOAD LIMITING APPARATUS. ANGELO BARBAGELATA, Milan, Italy, assignor to General Electric Company, a Corporation of New York. Filed June 28, 1926, Serial No. 119,059, and in Italy July 9, 1925. 12 Claims. (Cl. 171—119.)



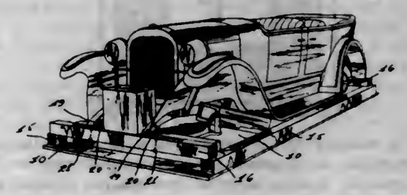
1. In combination, a polyphase electric circuit, means comprising an operating element for controlling the condition of energization of said circuit, and switching means operative upon the occurrence of unbalanced conditions in said circuit for selectively effecting energization of said operating element in accordance with the current in a phase conductor in which the current therein bears a predetermined order of magnitude with respect to the current in another phase conductor.

1,787,304. MIXING VALVE. HAROLD R. BECKER, Newburgh, N. Y., assignor to Becker Valve and Specialty Corporation, Newburgh, N. Y., a Corporation of New York. Filed Mar. 19, 1929. Serial No. 348,324. 26 Claims. (Cl. 236—12.)



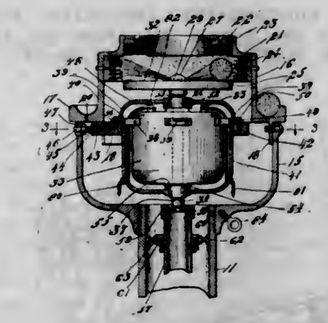
1. In a mixing valve, in combination, a casing having an outlet and a pair of inlet ports, a valve head having a pair of passageways connected respectively with said inlet ports, a valve member for controlling the flow of liquid through said passageways, and said valve head and said valve having arc shaped surfaces having a rolling contact with each other.

1,787,305. SHIPPING CONTAINER OR BOX FOR MOTOR VEHICLES AND THE LIKE. JAMES CAMPBELL, Detroit, Mich., assignor, by mesne assignments, to Chrysler Corporation, a Corporation of Delaware. Filed May 31, 1927. Serial No. 195,486. 3 Claims. (Cl. 217—36.)



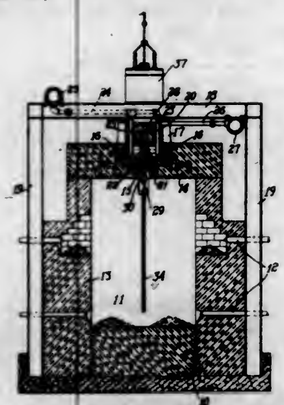
1. In a shipping box for motor vehicles and the like having a bottom, the combination with said bottom, of supporting members adjacent the ends of the box mounted upon and in spaced relation to said bottom whereby the vehicle may be rigidly supported through the frame thereof by the ends of said frame resting on said supporting members, and means for securing the ends of said frame to said supporting members.

1,787,306. DEVICE FOR WASHING GOLF BALLS. HOWARD D. DAY, Providence, R. I., assignor to Roterkleen Manufacturing Company, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 30, 1928. Serial No. 273,895. 8 Claims. (Cl. 15—21.)



1. In a cleaning machine for golf balls and the like, a housing, an annular disk brush and a cylindrical brush mounted in said housing in axial alignment with each other, a rotatable member supporting the balls within one of the brushes for revolving the balls against said brushes, and means for imparting a vibratory motion to said balls while revolving in contact with said brushes.

1,787,307. FURNACE. WILLIAM F. DETWILER, Tarentum, Pa. Filed Mar. 9, 1929. Serial No. 345,818. 15 Claims. (Cl. 263—8.)



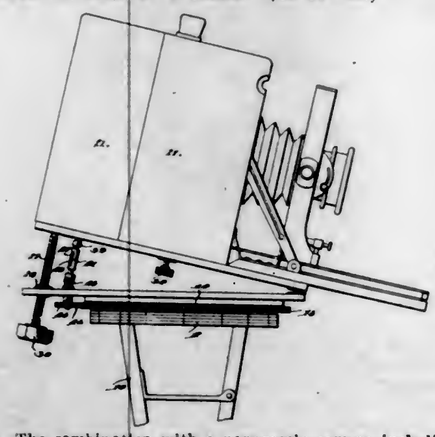
1. A heating furnace including a roof and having in combination a conveyor associated with said roof for continuously moving material through the furnace and a water cooled conveyor chamber disposed around the upper portion of said conveyor and provided with roof supporting members formed thereon.

1,787,308. HOLDER FOR DISPLAY STRIPS. ROLAND A. FURLONG, Rochester, N. Y., assignor to The Yawman & Erbe Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Nov. 26, 1929. Serial No. 409,773. 3 Claims. (Cl. 410—16.)



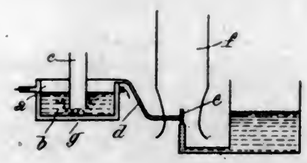
1. A holder for display strips comprising a web formed with upstanding flanges along its opposite edges, said flanges being yielding and provided with reentrant lips along their edges to receive a display strip flatwise, the strip camming against the lips during insertion into the holder and being held in position by the lips when the latter have flexed back to normal position.

1,787,309. PHOTOGRAPHIC APPARATUS. EUGENE O. GOLDBECK, San Antonio, Tex. Filed Apr. 16, 1929. Serial No. 355,573. 8 Claims. (Cl. 95—15.)



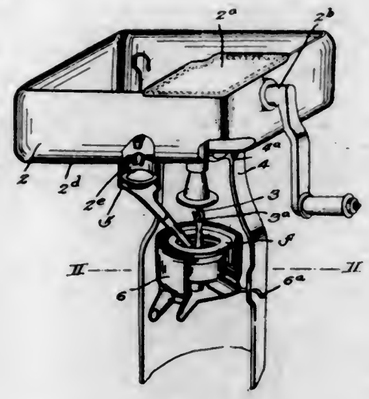
1. The combination with a panoramic camera including a turntable therefor, of an auxiliary support mounted on said turntable to sustain a camera thereon, said auxiliary support comprising a lower fixed member and an upper member hingedly connected at its forward end to the forward end of the lower member, and means for adjusting said upper supporting member and the camera carried thereby to dispose the same angularly with respect to the lower member in a manner whereby the travel of the lens of the camera will be in a horizontal plane at all times.

1,787,310. TEMPERATURE-CONTROL DEVICE. MAURICE GOUDARD, Neuilly, France, assignor to "Societe Anonyme Solex," Neuilly, France, a Society of France. Filed Oct. 20, 1928, Serial No. 313,926, and in Belgium Oct. 31, 1927. 2 Claims. (Cl. 261—12.)



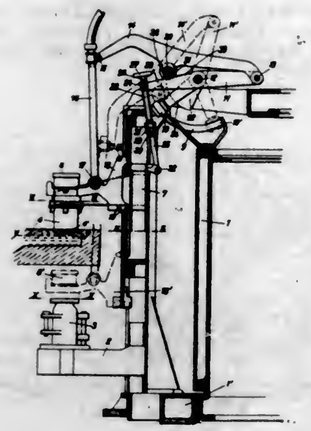
1. A temperature-controlled carburetting assembly comprising a mixing chamber, a nozzle extending into said chamber, a source of fuel connected to said nozzle, and temperature-controlled means for supplying air to said nozzle including a tank, a first conduit extending from the upper portion of said tank to the nozzle, a second conduit extending into said tank, and a substance contained in said tank and covering one end of said second conduit, said substance changing its viscosity with change of temperature and thereby regulating the rate of flow of air through said second conduit.

1,787,311. SEPARATING MACHINE FOR MILK. FERNAND HENRARD, Brussels, Belgium, assignor to Ecremeuses Melotte, Societe Anonyme, Remicourt, Belgium. Filed Oct. 4, 1929, Serial No. 397,284, and in Belgium Apr. 11, 1929. 5 Claims. (Cl. 233—45.)



1. In a separating machine, a milk reservoir, a rotatable bowl, a casing to contain a speed-multiplying device disposed within and formed in one piece with said reservoir, a shaft for driving said speed-multiplying device, a transmission device for connecting the speed-multiplying device with the bowl to rotate the latter, and means for delivering milk from the reservoir to the bowl.

1,787,312. BOTTLE-BLOWING MACHINE. HANS HILLMANN, Gross-Raschen, Germany. Filed Mar. 24, 1928, Serial No. 264,482, and in Germany Mar. 10, 1927. 11 Claims. (Cl. 49—5.)



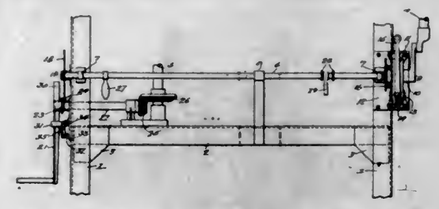
11. In a glass blowing machine of the class described, a rotary mold support, a glass tank associated with said support, a vertically adjustable carriage on said rotary support, a preliminary mold mounted on said carriage, a finishing mold adjustably mounted on said rotary support, a neck mold adapted to cooperate with the preliminary mold in one position and with the finishing mold in another position, actuating means for moving said neck mold to said respective positions, cam means controlled from the preliminary mold carriage to effect the cooperation of the neck mold with the preliminary mold in the various positions of the latter, a stationary support, and means on said stationary support for operating the actuating means aforesaid.

1,787,313. HINGE-SEAT GAUGE. JOHN R. HOUTS, McLean, Va. Filed Nov. 4, 1929. Serial No. 404,715. 3 Claims. (Cl. 33—42.)



3. A marker comprising a substantially rectangular body plate, flanges at the ends of said body, a marker plate fitting against said body between said flanges and having flanges at its ends and a blade along one side, a gauge plate fitting against said marker plate between the flanges thereof and having a flange along one side formed with a slot, a second marker plate fitting against said gauge plate and having a portion projecting through the slot in the flange of the gauge plate, a tooth carried by the projecting portion of the second marker plate, and means to slidably connect the plates and releasably secure the same in adjusted positions.

1,787,314. ACTUATING AND CONTROLLING MECHANISM FOR ELECTRIC SWITCHES. WILLIAM R. HUTTINGER, Philadelphia, Pa. Filed May 15, 1929. Serial No. 363,389. 4 Claims. (Cl. 200—50.)

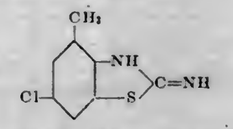


1. An actuating and controlling device for a pair of switches comprising a connection for one of said switches, a crank for moving said connection, a shaft carrying said crank, a disk on said shaft having an opening, a second shaft, an escapement disk connected to permit operation of said second shaft, said disk also having a perforation, and a bar slidably mounted between said disks and of such length that it cannot be withdrawn from the opening in one of said disks without entering the perforation in the other, the bar thus preventing simultaneous movement of said disks.

1,787,315. NEW COMPOUNDS OF THE THIAZOLIC SERIES AND PROCESS OF MAKING SAME. HANS PAUL KAUFMANN, Jena, and MAX SCHUBERT, Fechenheim, near Frankfort-on-the-Main, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, a Corporation of Germany. Filed Apr. 12, 1927, Serial No. 183,228, and in Germany Apr. 15, 1926. 14 Claims. (Cl. 260—44.)

1. A process for producing new compounds of the thiazolic series which comprises allowing a salt of sulfocyanic acid to act on primary arylamines, wherein the paraposition to the aminogroup is either substituted by a monovalent radicle or blockaded, in the presence of a halogen.

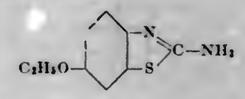
14. As a new product a compound containing sulfur, having probably a thiazole ring in its molecule and corresponding probably to the formula:



which is when dry a crystalline substance, melting at about 203° C. when recrystallized from spirit.

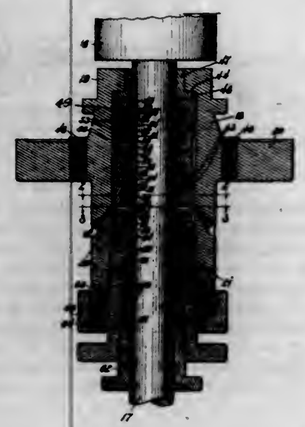
1,787,316. NEW COMPOUNDS OF THE THIAZOLIC SERIES. HANS PAUL KAUFMANN, Jena, and MAX SCHUBERT, Frankfort-on-the-Main-Fechenheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Original application filed Apr. 12, 1927, Serial No. 183,228, and in Germany Apr. 15, 1926. Divided and this application filed Aug. 23, 1929. Serial No. 388,028. 1 Claim. (Cl. 260—44.)

As a new product a compound containing sulfur, having probably a thiazole ring in its molecule and corresponding probably to the formula:



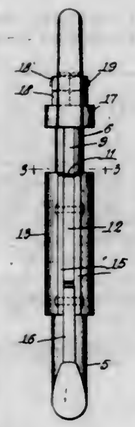
which is when dry a crystalline substance, melting at about 163°, when recrystallized from dilute spirit, and yielding a yellowish diazo compound.

1,787,317. STUFFING BOX. OTTO A. LABUS, Wisconsin Rapids, Wis., assignor, by mesne assignments, to National Carbonic Machinery Company, Wisconsin Rapids, Wis., a Corporation of Wisconsin. Filed Oct. 23, 1926. Serial No. 143,687. 3 Claims. (Cl. 286—27.)



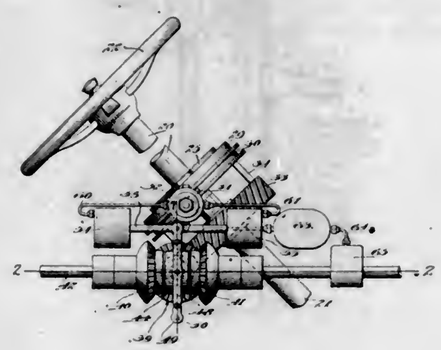
1. A stuffing box for piston rods, comprising a substantially cylindrical housing having a peripheral flange adapted to be secured directly to the end of a cylinder and a reduced portion extending inwardly to form the head of the cylinder, a bushing seated within said reduced portion, a metallic ring following the bushing and fitting closely within the housing but affording a clearance for the piston rod, said ring being counterbored at its inner edge, a floating ring fitting closely around the piston rod within the counterbore with a clearance between the outer edge of the floating ring and the counterbored ring, packing rings following the counterbored ring and floating ring, a separator ring following the packing rings, other packing elements following the separator ring and including a double-counterbored lantern ring with packing rings in front of and behind the same, and a gland at the outer end of the housing for adjusting said packing elements.

1,787,318. HOISTING HOOK. CLYDE LESTER MATTHEWS, Haynesville, La. Filed Sept. 26, 1930. Serial No. 484,656. 5 Claims. (Cl. 24—238.)



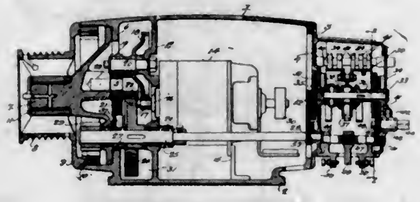
1. A safety hook comprising a hook portion and a shank portion, said shank portion having a recess formed therein, a sleeve slidably mounted on the shank, a latch member carried by the sleeve and engaging within the recess to hold the sleeve in its active position, a spring on the shank for moving the sleeve to its inactive position when the latch member is released, and means carried by the sleeve for engaging the hook to close the hook.

1,787,319. POWER STEERING MECHANISM. WILLIAM L. MCDONALD, Pensacola, Fla. Filed Aug. 16, 1928. Serial No. 300,062. 3 Claims. (Cl. 180—79.3.)



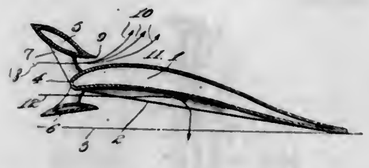
1. In steering mechanism for motor vehicles and the like, a driven shaft, spaced gear wheels on the shaft and having opposed clutch faces, a slidable clutch member on the shaft between the gear wheels and having a groove in its periphery, means for operating the steering mechanism from the gear wheels, opposed cylinders, pistons in the cylinders, springs between the pistons and cylinder heads, a rod connecting the pistons, a pivoted yoke engaging the groove of the slidable clutch member and pivoted to the rod at the center of its length, an air pressure reservoir connected with the cylinders, and a valve for controlling the admission of air to the said cylinders.

1,787,320. ELECTRIC STEERING DEVICE. JAMES AUGUSTINE MELLON, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 5, 1928. Serial No. 304,017. 9 Claims. (Cl. 172—239.)



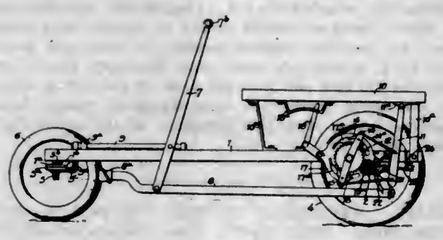
1. An electric steering machine comprising a substantially barrel-shaped main housing, a sub-housing constituting a closure for one end of the main housing, an end member closing the other end of the main housing, a grooved drum journaled for rotation on said end member, an electric motor mounted in said main housing and operatively connected with said grooved drum, and motor control mechanism mounted in said sub-housing and also operatively connected with the drum.

1,787,321. AIRPLANE WING. MATTHEW ORR, Dillon, Mont. Filed Aug. 12, 1929. Serial No. 385,317. 1 Claim. (Cl. 244—12.)



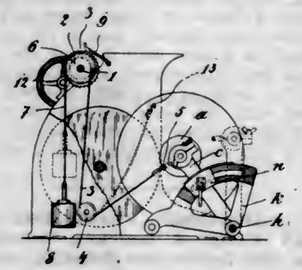
An aircraft having a sustaining plane, and complementary airfoils fixed in oppositely and rearwardly slanting positions, to be widest apart across the leading edges, being spaced above and below the leading edge of said plane to define a Venturi opening.

1,787,322. OCCUPANT-PROPELLED VEHICLE. WILLIAM J. PUGH, Oakland, Calif. Filed May 16, 1929. Serial No. 363,690. 18 Claims. (Cl. 208—36.)



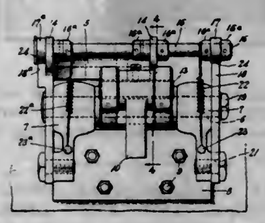
1. In a vehicle, an axle, a gear for rotating said axle; a drive lever journaled beside said gear; means for rocking the lever, a double-ended dog pivoted on said lever adapted to engage the gear teeth with either end; means for yieldably maintaining either end of the dog in contact with said gear; and means for automatically shifting and maintaining the dog in neutral position when the lever is rocked beyond one end of its normal working stroke, said means permitting the dog to resume its former driving contact with the gear when the lever returns within the limits of its working stroke.

1,787,323. WARPING FRAME. WILHELM REINERS and GUSTAV KAHLISCH, Munich-Gladbach, Germany, assignors to W. Schlafhorst & Co., Munich-Gladbach, Germany, a Corporation of Germany. Filed June 10, 1929, Serial No. 369,845, and in Germany Dec. 19, 1928. 8 Claims. (Cl. 28—32.)



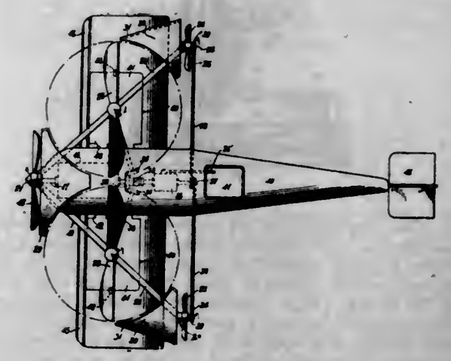
1. A warping frame with a warp beam driven by surface friction including a beaming drum, a warp beam driven from said drum by surface friction, a plurality of beam arms carrying said warp beam, means for producing a pressure of the warp beam against said beaming drum comprising a separate shaft, a torsional resistance means on said shaft and a flexible tension member connecting each of said beam arms with said shaft.

1,787,324. ATTACHMENT FOR CAN-BODY MAKERS. JOSEPH HOWARD RENSHAW, Cincinnati, Ohio, assignor to Continental Can Company, Inc., New York, N. Y., a Corporation of New York. Filed May 18, 1929. Serial No. 364,284. 8 Claims. (Cl. 113—7.)



1. A body maker including means for supporting a body blank, means for scraping the inner overlapping portion of the blank forming the side seam in the region at the ends of the side seam for removing the enamel preparatory to the joining of the lapped portions by soldering.

1,787,325. AIRCRAFT. ERNEST RUBIN, Atlanta, Ga. Filed Oct. 18, 1929. Serial No. 400,638. 7 Claims. (Cl. 244—15.)

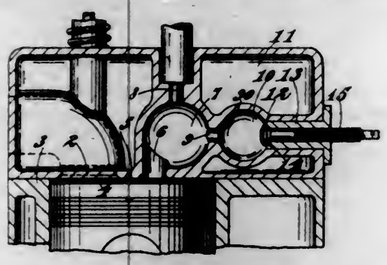


1. In aircraft, horizontal lifting propellers rotatable in opposite directions and co-acting flight propeller means arranged to compress and place air in rapid motion and project the same onto a blade of each of said propellers, and propeller means arranged to compress and place air in rapid motion and project the same onto another blade of each of said propellers.

1,787,326. COMPRESSION-IGNITION INTERNAL-COMBUSTION ENGINE. ARTHUR FREEMAN SANDERS, Dursley, England, assignor to R. A. Lister & Company, Limited, Dursley, England, a British Company. Filed Nov. 11, 1929, Serial No. 406,831, and in Great Britain Nov. 20, 1928. 8 Claims. (Cl. 123—23.)

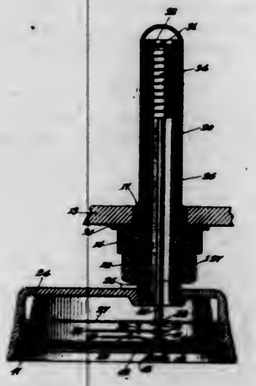
1. In an internal-combustion engine, a cylinder, a cylinder head having a water jacket and an interior flat surface, and a piston operable in said cylinder with

a minimum of clearance between the piston and said flat surface, said cylinder head having therein spaced cavities lying within the water jacket for receiving an



operative clearance volume and with one cavity opening directly into the cylinder and having a narrow passage extending between and intercommunicating the cavities.

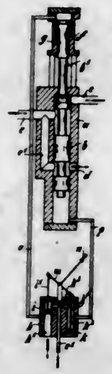
1,787,327. TEMPERATURE INDICATOR FOR TRANSFORMERS AND THE LIKE. HERMAN SCHLAICH, Long Island City, N. Y. Filed Feb. 9, 1923. Serial No. 618,159. 2 Claims. (Cl. 73—118.)



1. The combination of an electrical device adapted to be located at a considerable height above the ground and having a liquid containing casing provided in its bottom with a well, access to which may be had from without the casing, and a temperature indicating instrument attached to the bottom of said casing and positioned directly beneath and close to it, and having a temperature responsive operating element extending into said well for operating the instrument oppositely in response to rise and fall of temperature, a temperature indicating member located on the outside of and supported by the said casing in a position to be readable from the ground, means connecting said member to said element for operation by said element, and a housing for the member including a substantially horizontal bottom cover glass through which the indicating member can be seen from the ground and a protective flange or skirt surrounding the bottom cover glass and extending substantially below it; said instrument being separable as a unit from the casing and well.

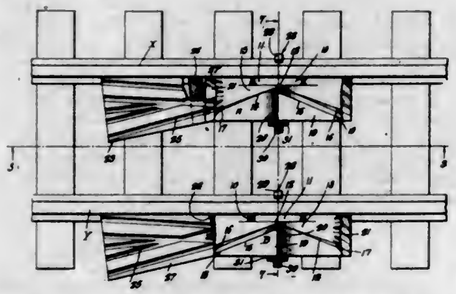
2. In an instrument of the kind described, in combination, an indicator member, a freely rotatable shaft supporting the indicator member, a thermostatic actuating coil connected at one end to said shaft, a sleeve surrounding said coil, said sleeve being open adjacent the other end of the coil, and means connecting said other end of the coil to the sleeve in proximity to the open end of the sleeve and forming a bearing for the shaft.

1,787,328. DISTRIBUTING GEAR FOR BIG HYDRAULIC WORKING MACHINES. EMIL SCHÖTTLER, Essen-Rutt, Germany. Filed Jan. 8, 1930, Serial No. 419,400, and in Germany Mar. 2, 1927. 5 Claims. (Cl. 138—16.)



1. In a distributing gear for big hydraulic working machines in combination: a hydraulically actuated piston valve; hand controlled means to operate said piston valve; an auxiliary piston serving to hold said piston valve in a middle position; said auxiliary piston projecting by its free end into the path of the piston valve; and the cross section of said auxiliary piston being somewhat larger than the difference of the active faces of said piston valve.

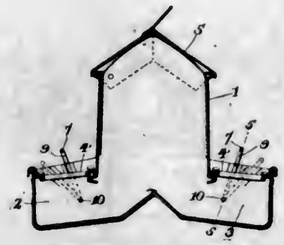
1,787,329. RERAILING DEVICE. AMMON T. SEXE, Hills, Minn. Filed Sept. 3, 1930. Serial No. 479,549. 6 Claims. (Cl. 104—262.)



1. Means for rerailing car wheels comprising an element adapted to be disposed lengthwise of a rail and having a substantially straight lateral face adapted to bear against and less in height than the side of a rail, the element being so formed from one end of its middle as to receive a flange of a car wheel and guide the flange of the wheel laterally toward the rail with its tread disposed on a level with the rail, the element being so formed from its other end to its middle as to engage and raise the tread of a wheel, bringing the flange thereof level with the upper face of the rail and engage the flange to force the wheel laterally to permit the flange to roll over the upper face of the rail.

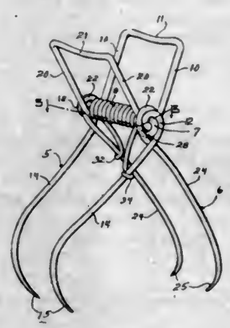
1,787,330. ADJUSTABLE GUARD FOR POULTRY FEEDERS. DANIEL E. SPEICHER, Urbana, Ind., assignor to The Cyclone Manufacturing Company, Urbana, Ind., a Corporation. Filed Jan. 3, 1929. Serial No. 330,003. 7 Claims. (Cl. 119—52.)

1. In a poultry feeder having an open top container provided with end walls, an angularly adjustable, inverted yoke-shaped feed guard for extension over the top of the open container and having its ends opposing the



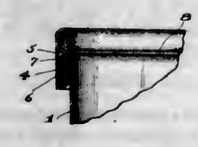
outer faces of and pivotally connected to said end walls of the container, said guard being of greater length than the length of the container.

1,787,331. NAIL TONGS. DONALD R. WILSON, Peshastin, Wash. Filed Nov. 25, 1929. Serial No. 409,686. 5 Claims. (Cl. 294—118.)



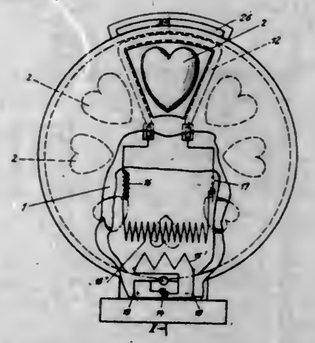
1. A device of the class described comprising a pair of U-shaped lever members, a hinge member pivotally connecting the lever members intermediate their ends to provide a pair of co-acting handle portions and a pair of co-acting claw portions arranged respectively above and below the hinge member, spring means normally urging the lever members to a spread position, and a stop extension formed on one end of hinge member and engageable by the claw portions for limiting spreading movement of the lever members.

1,787,332. TAPERED OR NESTING PAPER CAN. WILBUR L. WRIGHT, Fulton, N. Y., assignor to Oswego Falls Corporation, Fulton, N. Y., a Corporation of New York. Filed Apr. 29, 1929. Serial No. 359,007. 9 Claims. (Cl. 229—55.)



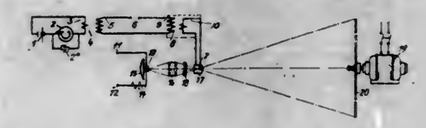
1. A paper can having a tapered body provided with a bottom closure at its small diameter end and at its large diameter end having a rigid compacted exterior enlarged annular rim formed by an exterior roll of the body, said rim having a vertical exterior circumferential surface to slidably receive and frictionally retain the annular flange of a flat top slip cover.

1,787,333. LIGHT ADVERTISING DEVICE. AUGUST ABEL, Leipzig, Germany. Filed Oct. 26, 1929, Serial No. 402,673, and in Germany Oct. 25, 1928. 5 Claims. (Cl. 40—52.)



1. In a device for the production of apparently moving display matter, means for causing an instantaneous short flash of illuminating light upon representations moved by a carrier to a point of observation; said means comprising a luminous gas-discharge tube connected in an electric circuit including a current interrupter synchronized with the carrier to permit momentary energization of the tube at predetermined regular intervals, a condenser connected in parallel with the interrupter for subduing the spark and reducnig its duration, and a transformer having a choke-coil and adjustable spark gap in the circuit of its secondary winding.

1,787,334. DEVICE FOR THE PRODUCTION OF APPARENTLY-MOVING DISPLAY MATTER. AUGUST ABEL, Leipzig, Germany. Original application filed Oct. 26, 1929. Serial No. 402,673, and in Germany Dec. 14, 1928. Divided and this application filed Aug. 14, 1930. Serial No. 475,154. 4 Claims. (Cl. 40—52.)

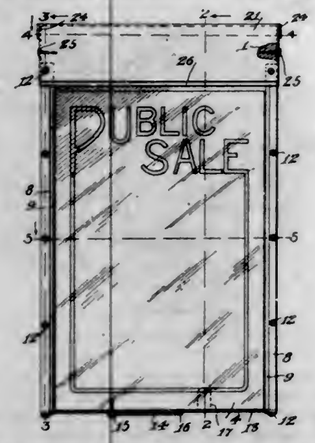


1. In a device for producing apparently moving display matter, a carrier having a plurality of representations of an object in different phases of movement arranged thereon in correspondence with such phases consecutively, means for driving the carrier to move said representations before the eye of an observer, a constantly shining source of light, and means collecting and converting the rays therefrom into short flashes of light occurring at the rate of one with each extent of the carrier's drive for the distance between adjacent representations so as to illuminate the same without perceptible shut-off of the light; said means embodying a light-electric relay connected in an electric circuit including a source of current, a current interrupter, a condenser in parallel with the interrupter, a transformer, and an adjustable spark gap associated therewith.

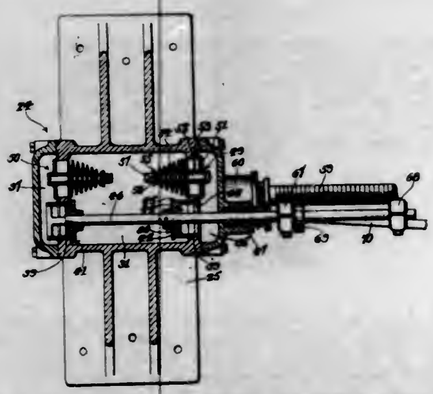
1,787,335. BILL HOLDER AND PROTECTOR. LAWRENCE ANDERSON, Fullerton, Nebr. Filed Apr. 25, 1930. Serial No. 447,302. 4 Claims. (Cl. 40—125.)

1. A bill holder and protector comprising a baseboard formed in its forward face with a recess opening through the lower edge of the baseboard, a transparent element positioned over the recess in spaced relation to the rear wall thereof, a cover for the baseboard, said cover including a rear portion, side portions and front portions, said front portions bearing against the forward face of the

transparent element and being formed at their lower edges with projections extending across marginal lower edge portions of the transparent element, and a resilient securing element having one end secured to the baseboard and having its other end formed with a lateral projection normally extending across the lower edge of the recess.



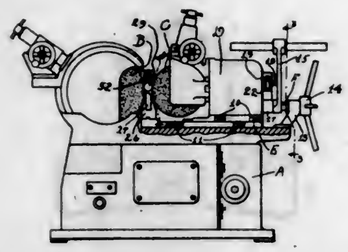
1,787,336. RAILWAY SWITCH. FRANCIS H. BAGLEY, Savannah, Ga. Filed June 30, 1930. Serial No. 464,947. 16 Claims. (Cl. 246—321.)



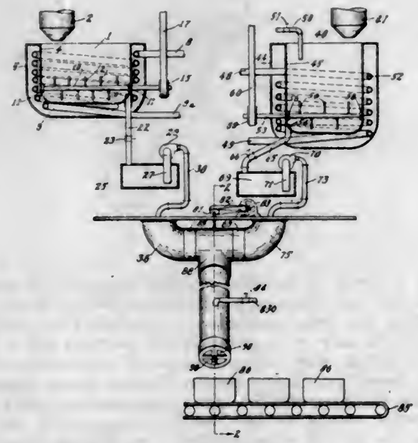
1. A railway switch comprising, a throw rod for connection with a switch point, a spring mechanism operatively connected with the throw rod for closing the switch after a train has trailed therethrough, and a dash pot mechanism operatively connected with the throw rod for resisting the action of the spring mechanism to close the switch, said dash pot mechanism including a housing formed at its ends with a pair of fluid chambers and further formed with a closed end chamber and an open end chamber disposed between the pair of chambers, and a piston slidable in said open end chamber and operatively connected with the throw rod to move therewith, said closed end chamber being in communication with one of said pair of said chambers and being closed to the other, said piston being formed with a by-pass.

1,787,337. GRINDING MACHINE. CLEMENT BOOTH, Cincinnati, Ohio, assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a Corporation of Ohio. Filed Jan. 28, 1929. Serial No. 335,570. 20 Claims. (Cl. 51—103.)

1. In a grinding machine, the combination with a pair of opposed grinding and regulating wheels forming a grinding throat between them, of a block within the grinding throat, a work rest blade secured to the block, a bracket carried by the block, a lever pivotally secured to the bracket, resilient means for urging one end of the lever toward the work rest blade, and positive means for retracting the end of the lever from the work rest blade.



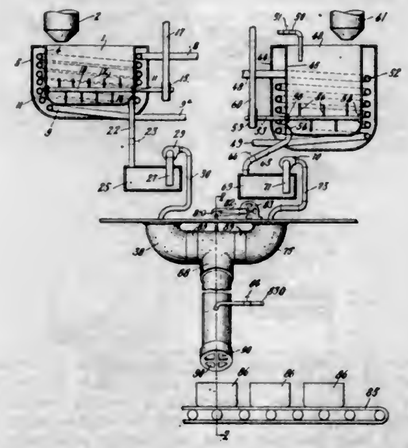
1,787,338. METHOD OF PRODUCING AQUEOUS DISPERSIONS. ALBERT L. CLAPP, Danvers, Mass., assignor to Bennett, Incorporated, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 8, 1925. Serial No. 55,063. 3 Claims. (Cl. 134—1.)



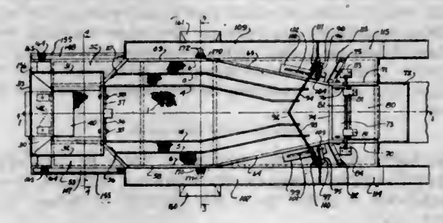
3. A method of producing aqueous dispersions of thermoplastic material, which comprises preparing a hot batch of liquefied thermoplastic material and a hot batch of aqueous sodium silicate solution, progressively withdrawing the thermoplastic material and the solution as continuously moving streams of comparatively small cross-sectional area from the batches, uniting the streams into a single, continuously moving stream, and thoroughly agitating the continuously moving stream to effect a dispersion of the thermoplastic material in the aqueous sodium silicate solution.

1,787,339. APPARATUS FOR PRODUCING AQUEOUS DISPERSIONS. ALBERT L. CLAPP, Danvers, Mass., assignor to Bennett, Incorporated, Boston, Mass., a Corporation of Massachusetts. Original application filed Sept. 8, 1925, Serial No. 55,063. Divided and this application filed Feb. 1, 1927. Serial No. 165,106. 5 Claims. (Cl. 134—1.)

1. Apparatus of the class described, comprising in combination a pair of material heaters, means for stirring material fed into said heaters, tanks arranged to receive material from said heaters, a cylindrical shell into one end of which continuous streams of heated material from said tanks may be delivered, a shaft arranged axially within said shell, and a spiral conveyor on said shaft for mixing and conveying the materials as a continuously moving stream from said one end through the shell.



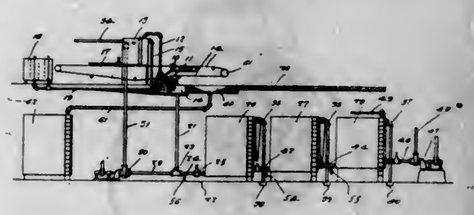
1,787,340. MECHANISM AND PROCESS FOR SEPARATING INTERMIXED DIVIDED MATERIALS. KENNETH DAVIS, St. Benedict, Pa., assignor, by mesne assignments, to Peale-Davis Company, Wilmington, Del., a Corporation of Delaware. Filed July 10, 1922. Serial No. 574,033. 24 Claims. (Cl. 209—467.)



1. A mechanism for separating intermixed divided materials, comprising an inclined separating unit having an air pervious bottom in which a bed of materials of substantial depth is maintained, means for vibrating said unit, separating partitions of substantial height extending substantially longitudinally of the separating unit defining channels of substantial depth, means for forcing air upwardly through the bed of materials, whereby flotation, stratification and separation of the materials moving along said channels is effected, and means for variably positioning the said partitions in the unit.

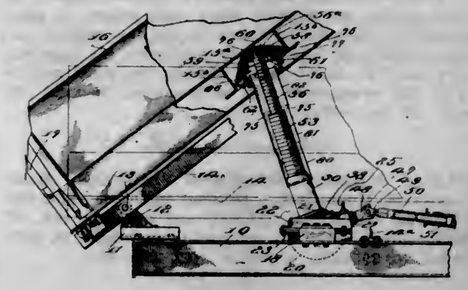
9. A process for separating intermixed divided materials varying relatively greatly in size and relatively little in their specific gravities, which comprises maintaining a bed of the intermixed materials of substantial depth on an air-pervious table, acting on the bed with lifting air currents and vibration to gradually stratify and separate the materials, progressing the lighter material in a substantially continuous, superior stratum to discharge, causing different sizes of heavy impurities to settle at different parts of the table beneath said superior stratum by passing air currents of different lifting force through different parts of the bed, deflecting and guiding the settled impurities transversely beneath the superposed lighter material, and discharging different sizes of heavy impurities from different parts of the table.

1,787,341. WHITE-WATER SYSTEM FOR RECLAIMING WHITE WATER OR ANY FIBER. CHARLES DUPUIS, Ladysmith, Wis. Filed Sept. 4, 1929. Serial No. 390,291. 14 Claims. (Cl. 92—38.)



1. A setting system for paper machines comprising a white water receiving tank adapted for supplying water to the fan pump of a paper machine, a suction box pump adapted for conducting excess water from the paper machine, a conductor pipe connecting the suction box with the white water receiving tank, a drain pit on substantially the same level as the white water receiving tank and the suction box and having a drain pipe leading therefrom, a pump operatively connected with one side of the drain pipe and having an automatically controlled outlet discharging into the white water receiving tank, a series of settling tanks selectively connected together at their bottoms, the forward tank of the series being selectively connected with the other side of the drain pipe, overflow means on each tank, a pump operatively connected with the bottom of the last tank of the series for carrying off supernatant water, and automatic means on the last tank for admitting fresh water when the water in the settling tanks reaches a predetermined point.

1,787,342. RAISING MECHANISM. HENRY FORT FLOWERS, Findlay, Ohio. Filed Nov. 23, 1926. Serial No. 150,329. 16 Claims. (Cl. 298—21.)

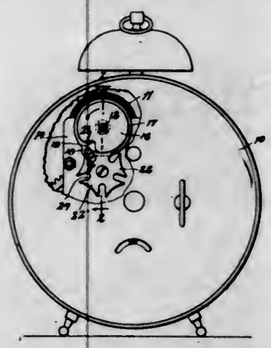


1. In a raising mechanism for the tiltable dump body of a vehicle having a frame, a lower socket member on said frame, a lower ball movable in said socket member, a rotatable sleeve journaled in said ball and having screw threads therein, a threaded spindle engaging the threads of said sleeve and adapted to tilt said body, means including a shaft to rotate said sleeve, a bearing for said shaft on said lower ball, and a guide on said socket member for said shaft, said guide serving to prevent rotation of said ball about the axis of said sleeve and to permit movements thereof in a plane including said axis.

1,787,343. SPRING-WINDING CONTROL DEVICE. WILLIAM THOMAS, New York, N. Y. Filed May 28, 1929. Serial No. 366,659. 2 Claims. (Cl. 185—43.)

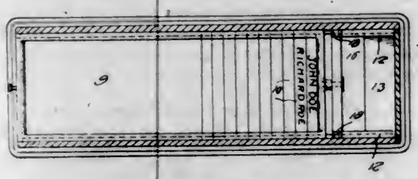
1. In a device of the character described, the combination with a coil spring and an arbor therefor of a wheel carried by said arbor, a projection on said wheel, a Geneva wheel mounted adjacent said first mentioned wheel

engageable with said projection for periodic rotation thereby, a supporting frame for said arbor and wheels, a projection on said supporting frame adapted to limit ro-



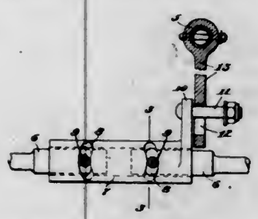
tation of said Geneva wheel, and a projection on said Geneva wheel engageable with the projection on said supporting frame.

1,787,344. INDEX CABINET SLIDE. HAL TURNER, Tulsa, Okla. Filed Jan. 17, 1928. Serial No. 247,366. 6 Claims. (Cl. 45—2.)



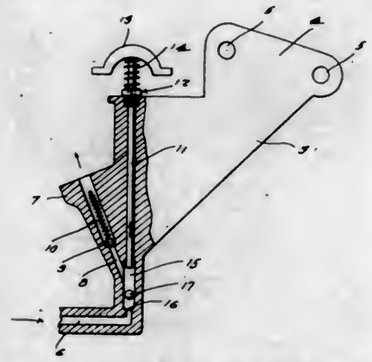
1. A cabinet having side guides, a follower slidably arranged within the cabinet along said guides, a panel arranged for slidable movement within the cabinet, and means for pivotally and swivelly connecting the inner end of the panel to said follower whereby the panel may be rotated and swung vertically when entirely disposed outwardly of the cabinet.

1,787,345. STEERING GEAR FOR VEHICLES. MARIO VEDOVELLI, Milan, Italy. Original application filed Oct. 11, 1928, Serial No. 311,890, and in Italy Oct. 27, 1927. Divided and this application filed Sept. 28, 1929. Serial No. 395,954. 4 Claims. (Cl. 280—95.)



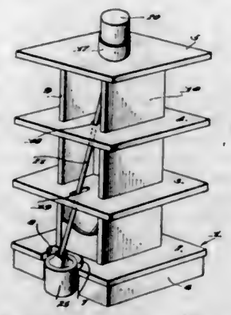
1. In a vehicle a pair of steering wheel supporting parts, arms each solid with one of said parts, bar sections each having one end pivotally connected with the end of one of said arms, means interconnecting the other ends of said bar sections, said means comprising at least a cam guide transverse to the axis of said bar sections and guides for said bar sections extending in the direction of the axis of the same, and steering means actuating said arms and said interconnecting means for the same.

1,787,346. FUEL PUMP. KENNETH J. WATTERS, Ocheyeden, Iowa. Filed Mar. 25, 1929. Serial No. 349,881. 1 Claim. (Cl. 103—154.)



Means in a pump engine for maintaining a constant feed of the fuel from the fuel supply tank to the carbureter of the engine, comprising a casting having an attaching flange for connection with the engine block and having a body portion bored to provide relatively angularly disposed internal passages converging toward a common point and forming a fuel intake from the supply tank, fuel outlet to the carbureter and plunger-receiving bore respectively, an elongated fuel collecting chamber connecting the converging ends of the passages and affording communication therebetween, a reciprocable plunger rod operably positioned within the said plunger receiving bore with its lower end extending into the said chamber, a ball check valve within the chamber and controlling communication between the latter and the fuel intake passage, said valve being operable to open the passage upon the intake stroke of the plunger and to close the same upon the exhaust stroke, and a spring tensioned ball check valve within the said fuel outlet passage for controlling communication between the latter and the said elongated chamber, said spring tensioned valve being operable to close the passage upon the intake stroke of the plunger and to open same upon the exhaust stroke of the latter.

1,787,347. COMBINED DISPLAY AND DISPENSING APPARATUS. ARTHUR WELLEMEYER, Klemme, Iowa. Filed Oct. 8, 1929. Serial No. 398,228. 2 Claims. (Cl. 221—69.)

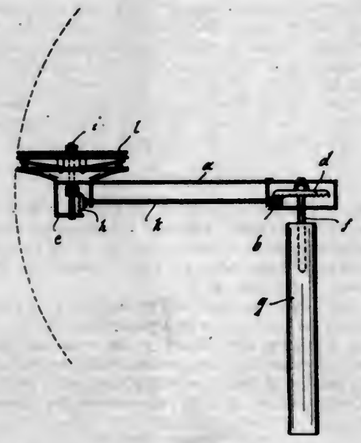


1. A combined and dispensing apparatus comprising a stand composed of a plurality of shelves arranged in vertically spaced relation, one above the other, a funnel receiving opening in the top shelf, the other shelves having tube passages therein, a funnel mounted in said opening, a tube connected with said funnel and passing through said passages, the lower portion of said stand having a seat to receive a container to be filled whereby the container may be positioned for the insertion in the mouth thereof of the lower end of said tube.

1,787,348. PROCESS OF REDUCING ORES. HERBERT WITTEK, Beuthen, Germany. Filed Dec. 1, 1926, Serial No. 152,069, and in Germany July 26, 1926. 8 Claims. (Cl. 75—17.)

1. The method of reducing ores which consists in contacting the ore and carbide, and then azotizing the carbide, while the ore and carbide are thus associated.

1,787,349. SPARK TOY. CARL ARNOLD, Nuremberg, Germany. Filed Nov. 19, 1929, Serial No. 408,308, and in Great Britain June 4, 1929. 1 Claim. (Cl. 46—14.)



A spark producing device rotatably mounted on a handle said spark-producing device comprising in combination an axle, a mitre wheel gearing connected to said axle to rotate the same, a mitre wheel gearing connected with said handle, and a shaft connecting the mitre wheel gearing of said spark producing device and the mitre wheel gearing of said handle and adapted to rotate when the spark producing device is rotated around said handle and to cause the spark producing device to rotate on its axle.

1,787,350. PRISON BAR AND ALARM-SYSTEM CIRCUIT CLOSER. WILLIS MACKINLEY BARTON, Florence, Ala. Filed Feb. 13, 1928. Serial No. 254,014. 1 Claim. (Cl. 200—52.)



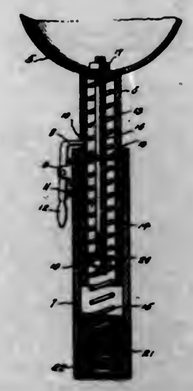
The combination with a window sash, of a metallic frame composed of angle iron members, the corresponding branches of which are provided with aligned spaced openings, grate hollow tubular bars supported by said frame and having their ends received by said openings, washers fixed on the ends of each rod and arranged within the frame bearing against the inner side of the adjacent angle members thereof, collars arranged within said bars adjacent the ends thereof, a sectional rod arranged within each bar and passed through said collars, each rod being of a greater length than the said bar and also passed through the openings in said frame members, a flange carried by each end of each rod and also arranged within the frame member, a coil spring surrounding each end of said rod and interposed between the adjacent flange and collar, and push button switches arranged in the said frame at the opposite ends of each rod and normally spaced from the flanges thereof for the purpose specified.

1,787,351. GROUNDING DEVICE. EDDIE F. BENNETT, Eastland, Tex. Filed Mar. 28, 1929. Serial No. 350,541. 1 Claim. (Cl. 173—31.)



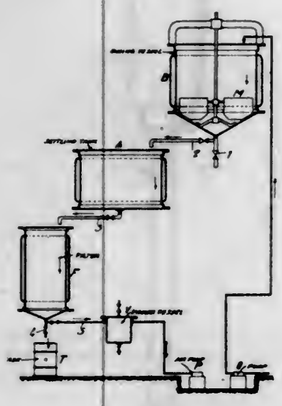
In combination, a grounding device comprising an elongated tubular member having a flattened lower end and an open upper end, said tube also having an opening in the wall thereof intermediate the ends of the tube, a terminal secured to the tube adjacent the upper end thereof, and a drip member loosely mounted on the upper end of the tubular member, said drip member comprising a reservoir, a cone-shaped drip nozzle depending within the upper end of the tubular member, an enlarged flange secured to the base of said cone-shaped nozzle, said flange normally engaging the upper end of the tubular member, and means for securing said flange to said reservoir.

1,787,352. SCOOP SCALE. JAMES M. BENSINGER, Gadsden, Ala., assignor of one-half to Alexander Howell, Gadsden, Ala. Filed Apr. 11, 1928. Serial No. 269,053. 2 Claims. (Cl. 265—66.)



1. A scoop scale comprising, a scoop, a tubular standard secured thereto, a tubular handle slidably receiving said standard, balance springs disposed in said standard and handle, an adjusting rod disposed longitudinally in said standard and extending through said scoop at one end, means on said rod for effecting individual adjustment of certain of said springs, and means carried by the handle for effecting individual adjustment of another of said springs.

1,787,353. REGENERATION OF LUBRICATING OILS. HERMANN BENSMANN, Bremen, Germany. Filed Nov. 2, 1926, Serial No. 145,905, and in Germany Mar. 25, 1926. 2 Claims. (Cl. 196—16.)



1. A process for the regeneration of used lubricating oils, more especially those which have absorbed impurities and decomposed to a considerable extent owing to having been used in internal combustion engines or at points exposed to high temperatures, consisting in first heating the oils to about 30° C., then gradually heating the said oils further to about 60–70° C. together with polymerizing agents, while stirring, in order to form asphalt-like substances from the decomposition products of the oil, drawing off the sludge, passing the oil through a settling vessel and treating the oil by means of a filter having a long filtering path with an aluminium magnesium hydrosilicate to remove the organic acids and tarry constituents.

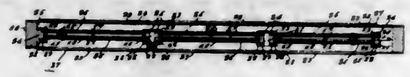
1,787,354. REPEATING RIFLE. ANDY BOCHNAK, Bobtown, Pa. Filed Nov. 15, 1929. Serial No. 407,475. 7 Claims. (Cl. 42—59.)



1. In a repeating rifle, a stock, a firing barrel extending therefrom, a cartridge storing barrel rotatably mounted upon the stock, means upon the periphery of the barrel for supporting an annular series of cartridges for presentation, successively, to the firing end of the barrel, a firing pin upon the stock, a hammer upon the stock for coaction with the firing pin, a trigger, and means actuated, automatically, upon pulling of the trigger, to first advance the cartridge storing barrel one step in its rotative movement to bring a cartridge into alignment with the stock barrel and with the firing pin, and to cock the hammer and then release the same for impact with the firing pin, upon further pulling of the trigger, the means for automatically advancing the cartridge storing barrel comprising a rack member slidably actuated through initial pulling of the trigger, a gear engaged by the said rack, and a rotatable member actuated by rotation of the gear and having a series of studs for engagement in sockets in the barrel.

5. A rotary cartridge carrier for repeating rifles comprising a barrel having a circumferential groove in its periphery, the walls of said groove being inwardly beveled, and a plurality of cartridge chambers provided with beveled bosses seating in said groove and extending in an annular series about the barrel.

1,787,355. SIGN. MILTON VINCENT BROWN, Guthrie, Okla., assignor of one-half to Paul Richard Barnes, Guthrie, Okla. Filed Apr. 27, 1929. Serial No. 358,625. 2 Claims. (Cl. 40—130.)

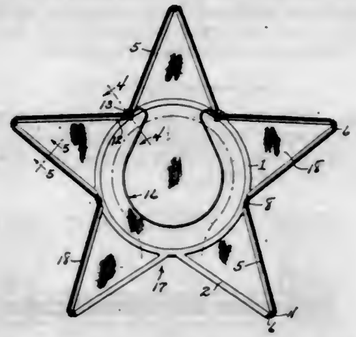


1. An illuminating device of the character described comprising a housing having openings in the opposed side walls thereof, channel members vertically disposed at spaced intervals within said housing and openings, containers of hollow block like formation receivable within the guideways formed by the channel members, stenciled placards facing said containers, and said containers being filled with an electrically luminous gas designed to exhibit light of even density over the entire surfaces thereof exposed through the portions removed in the housing and the stenciled portions in the placards.

1,787,356. CRYSTALLIZATION PROCESS. WILLIAM E. BURKE, Trona, Calif., assignor to American Potash & Chemical Corporation, New York, N. Y., a Corporation of Delaware. Filed May 23, 1927. Serial No. 193,673. 22 Claims. (Cl. 23—41.)

5. An improved method of crystallizing borax from liquor saturated with borax and potassium chloride, which comprises bringing the liquor to supersaturation with borax and flowing the supersaturated liquor countercurrent to a sludge of borax crystals through a crystallizer which is relatively high with reference to its diameter.

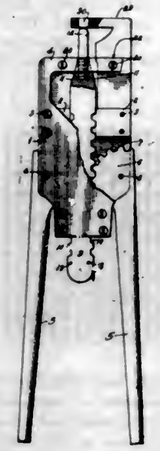
1,787,357. ORNAMENTAL LAMP SHADE. POMPEO CAPOCCI, Hollandale, Fla., assignor of one-half to Angelo Cammarata, Hollywood, Fla. Filed Nov. 7, 1928, Serial No. 317,764. Renewed May 28, 1930. 3 Claims. (Cl. 240—108.)



1. A shade for electric bulbs, including the frame that comprises a pair of spaced ring members, each having on its outer periphery equidistantly spaced bendable substantially V-shaped extensions designed to have their ends brought into contact and to be secured together, spacer elements between the rings, a spring bulb clamp in the frame, and a translucent covering for the frame.

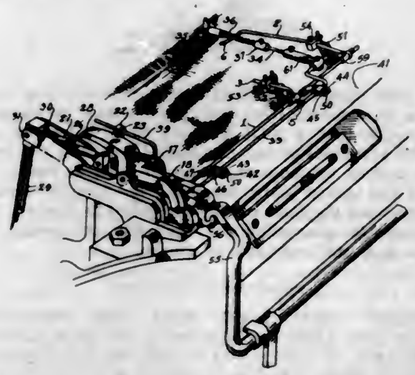
1,787,358. TOOL. WALTER F. CLAY, Texarkana, Tex. Filed July 21, 1928. Serial No. 294,474. 1 Claim. (Cl. 164—121.)

In a tool for the purpose set forth, a frame comprising two spaced plates, blocks arranged in spaced pairs between and removably secured to the plates, each of said plates having its central portion cut away beyond the outer blocks to provide the said plates with yoke-like extensions, a rack having both of its edges toothed, slidable between the blocks and yoke, a pair of handles each having a segmental head which is toothed, and which are pivoted between the sides of the frame, to engage with the teeth of the rack, a punch on one end of the rack, a jaw having a reduced shank received through the yoke and resting upon one of the outer spaced blocks, removable means se-



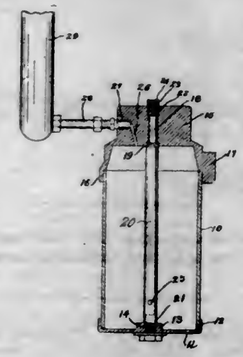
curing the shank to the yoke, said jaw having an outer widened portion which affords inner shoulders that rest on the outer edges of the yoke, the said wider portion having its inner face concaved and formed from thence with a right angular extension that has an opening therethrough in a line with the punch.

1,787,359. AUTOMATIC THIN-PLACE PREVENTER. WILLIAM F. CLAYTON, Huntsville, Ala., assignor of one-sixth to William E. James, Cullman, Ala., one-sixth to Nephanus E. James, Birmingham, Ala., and one-third to R. E. Smith, Huntsville, Ala. Filed Aug. 2, 1928. Serial No. 297,020. 5 Claims. (Cl. 139—348.)



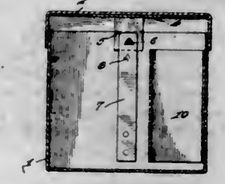
1. In loom mechanism, a detector finger in combination with bobbin replenishing mechanism, means operable responsively to the detection of a thin spot by said detecting finger for actuating said bobbin replenishing mechanism lifting means for said detecting finger, an operating connection responsive to the actuation of said replenishing mechanism for actuating said lifting means to lift said detecting finger out of the thin spot, said operating connection being severed by the lifting of said detector finger, and means operatively positioned by the retrogressive movement of the cloth for assuming the support of said detector finger when said supporting function is relinquished by the means which is responsive to the actuation of the bobbin replenishing mechanism.

1,787,360. INTERNAL-COMBUSTION-ENGINE-CLEANING DEVICE. FRANK F. COWHERD, Chicago, Ill. Filed Nov. 7, 1928. Serial No. 317,720. 1 Claim. (Cl. 123—198.)



In an internal combustion engine cleaning device, a substantially cylindrical body member, a bottom member, a head member, an elongated member extended through said cylindrical member connected to said bottom member and said head member to hold the same on said body member to define a cleaning fluid storage chamber, said member having an inlet opening closed by a removable plug having a relatively restricted passage therein, said member having outlet openings adjacent the lower end thereof, said head member having outlet passages provided therein to which members may be connected to connect said chamber with the intake manifold of the internal combustion engine.

1,787,361. COMBINATION CIGARETTE AND MATCH BOX. EMEN DERWISH, Fertile, Minn. Filed Apr. 27, 1928. Serial No. 273,326. 1 Claim. (Cl. 206—38.)

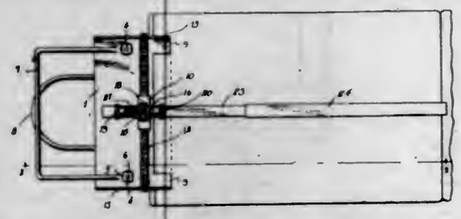


A device of the character set forth comprising a rectangular casing having one end open and provided with an opening in one wall adjacent the open end, a flanged cover hinged to the casing for closing the open end thereof and having its top wall spaced from the open end of the casing when in a position to close the casing, a serrated plate secured to the inner face of the top wall of the cover and bent angularly to provide a keeper to extend into the casing and terminate adjacent the opening when the cover is in a closed position, said angular portion of the plate being off-set and recessed adjacent the free end thereof, an elongated spring catch having one end secured to the interior of the casing adjacent the closed end thereof and having the free end angularly related to engage the recess for retaining the cover in a closed position, and a button secured to the catch and extending through the opening to permit a person to disengage the catch from the keeper by pressing on the button.

1,787,362. LINE FOLLOWER. OSCAR ERICKSON, Alexandria, Minn. Filed May 15, 1928. Serial No. 277,910. 3 Claims. (Cl. 120—33.)

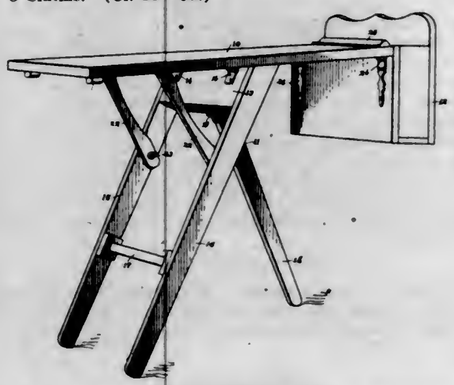
1. A line indicator including a support, a rack connected at its ends to the support and spliced therefrom between its ends, a tubular body encompassing the rack

and slidable thereon, a guide on the under side of the body extending across the rack, an indicating arm slidable in the guide between the rack and support, and a gear



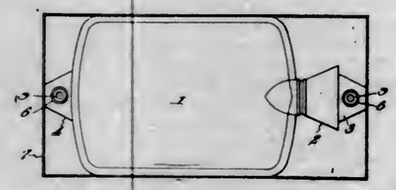
element mounted upon the body and coacting with the rack to move the body and indicating arm over the support.

1,787,363. FOLDING DESK. WILLIAM B. FAHNESTOCK, Wyoming, Ohio. Filed Apr. 6, 1928. Serial No. 267,873. 3 Claims. (Cl. 45—69.)



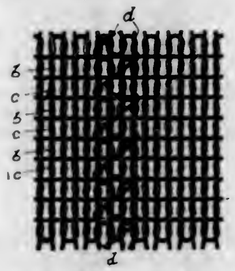
1. A foldable desk comprising a top, a foldable supporting structure connected with the top for supporting the top, and a receptacle movably suspended from one end of the top, said receptacle being open at the top, said receptacle being so suspended that it may move relatively to the top when the desk is being opened for use, or being folded, to assume an upright position.

1,787,364. MEANS FOR MOUNTING RUBBER CONTAINERS IN BOXES. PAUL E. FENTON, Thomaston, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed May 10, 1927. Serial No. 190,275. 3 Claims. (Cl. 206—69.)



1. Means for mounting an elastic rubber container in a box, for shipping and display purposes and retaining it therein without liability of crumpling, said container having an elastic tab provided with a resilient eye, said box provided with a button definitely located therein and attached thereto and having a head of larger diameter than said resilient eye, said head projecting within the box, and said resilient-eyed elastic tab capable of being stretched to pass over the head of the button and thereafter resume normalcy and thus engage the button and prevent acidental disengagement therefrom and so secure the container in mounted position in the box, the other end of the container being anchored to the box.

1,787,365. STRIPED STOCKING. EARL THOMAS FLOYD, near Temple, Pa., assignor to The Nolde and Horst Company, Reading, Pa., a Corporation of Pennsylvania. Filed June 19, 1928. Serial No. 286,679. 1 Claim (Cl. 66—180.)



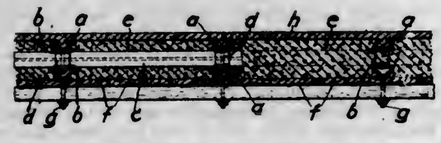
A stocking knit with two different body yarns simultaneously fed in alternating courses, and having separate striping yarn plaitedly interknitted in each wale with one of said body yarns to appear on the surface in the alternate courses of determined wales and with each rear portion of said striping yarn floated diagonally across an intervening course of the other body yarn to appear only on the reverse side of the stocking.

1,787,366. PLOW POINT. LEE COY FOUNTAIN, Kingsburg, S. C., assignor of one-third to Franklin Eli Weaver, Hyman, S. C. Filed Dec. 14, 1928. Serial No. 325,948. 1 Claim. (Cl. 97—125.)



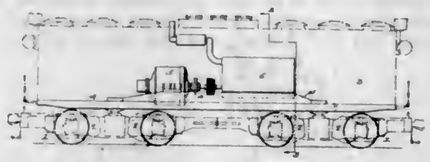
A plow comprising a body formed of convergent wings and a substantially flat central part, a rear extension on the central part, a point having a shank extending rearwardly and covering the flat central part and the extension, a short tongue connected with the rear end of the point and spaced below the shank for forming a socket for receiving the front end of the central part of the body and bolts for connecting the shank with the central part of the body and both parts to a beam.

1,787,367. IRON-FRAME WALL FOR BUILDINGS AND THE LIKE. ALFRED FRANK, Stuttgart, Germany. Filed Feb. 28, 1928, Serial No. 257,740, and in Germany Mar. 5, 1927. 5 Claims. (Cl. 72—16.)



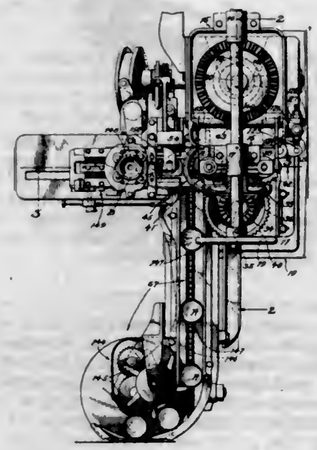
1. An iron frame wall for buildings and the like comprising a plurality of pairs of spaced beams; a plurality of intermediate beams arranged transverse to and between the spaced beams and secured to the spaced beams; and a filling mass in and between the beams and forming a plane and flush with the outer limits of the spaced beams.

1,787,368. SELF-PROPELLED RAILWAY VEHICLE. HARRY GLAENZER and CONRAD C. C. BURKHARDT, Philadelphia, Pa. Filed Oct. 31, 1928. Serial No. 316,138. 3 Claims. (Cl. 105—35.)



1. The combination in a self-propelled railway vehicle, of two trucks; a frame supported on the trucks, said frame having side rails; a generator located between the side rails and supported thereby, said frame also having an intermediate rail extending part of the length of the frame; two engines arranged side-by-side and resting on the side rails and intermediate rail; and gearing between both engines and the generator.

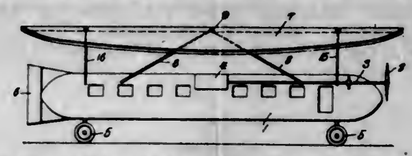
1,787,369. DOUBLE-SEAMING MACHINE. HENRY L. GUENTHER, Los Angeles, Calif. Filed Aug. 22, 1928. Serial No. 301,318. 6 Claims. (Cl. 113—14.)



1. A double seaming machine of the intermittent type comprising a first seaming station and a second seaming station, complementary chucks between which a can and cap are disposed at the first station and by which said can and cap are held in assembled relation to each other without axial rotation, a rotary seaming head at said first seaming station having rollers adapted to move around the perimeter of the can and cap to form the initial seam, can transfer means for moving the can and its cap from the first to the second seaming station, a pair of chuck members between which the assembled can and cap are positioned by said transfer means, means for driving said members to axially rotate the can and seaming means adapted to exert pressure against the partially formed seam to complete the seam.

1,787,370. AEROPLANE WING. WILLIAM S. HALL, San Antonio, Tex. Filed Dec. 16, 1929. Serial No. 414,512. 1 Claim. (Cl. 244—12.)

The combination with the body of an aeroplane, of upwardly inclined struts mounted at opposite sides of the body, a shaft supported by the upper ends of the struts, a flight plane of elliptical marginal contour mounted upon said shaft for tilting movement and having its longitudinal axis in the same vertical plane as the longitudinal axis of the body, and means connected with the plane near the ends thereof for tiltably adjusting the said plane, the said means comprising shafts rotatably mounted in the body



of the aeroplane at points transversely below the front and rear end portions of the flight plane, drums upon the shafts, cables wound about and extending between the corresponding drums of the shafts and having their terminal stretches extending upwardly from the drums and connected to the flight plane adjacent the ends thereof, and manually operable means for rotating the forward one of said shafts.

1,787,371. LAMINATED GLASS ARTICLE. MAURICE C. HEATON, West Nyack, N. Y. Filed June 27, 1928. Serial No. 288,782. 1 Claim. (Cl. 41—23.)



A laminated glass article comprising a plurality of narrow strips of glass arranged in contact so that their side edges will form the respective faces of a panel, a layer of cement arranged between groups of said strips and a backing of cement covering one edge of all of said strips of glass, said backing merging into said layers of cement whereby all the parts are locked together.

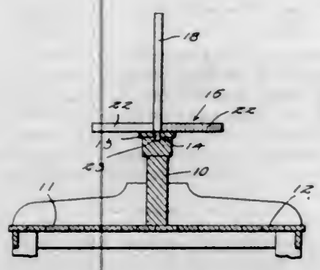
1,787,372. RAZOR STROP. FRANK K. HEHNLY, St. Petersburg, Fla. Filed Feb. 19, 1930. Serial No. 429,642. 1 Claim. (Cl. 51—200.)



A razor strop comprising sharpening and finishing plates of glass and slate respectively, a padding member positioned between the plates and at one end thereof projecting beyond the plates, said padding member adapted to cushion the plates and aid in preventing breaking of the plates, hand grip elements positioned against opposite faces of the extended portion of the padding member and stitched thereto, clamping plates positioned against the sharpening and finishing plates adjacent one of their ends and having inwardly extending side and end flanges and said end flanges engaging over the edges of said sharpening and finishing plates and the side flanges engaging

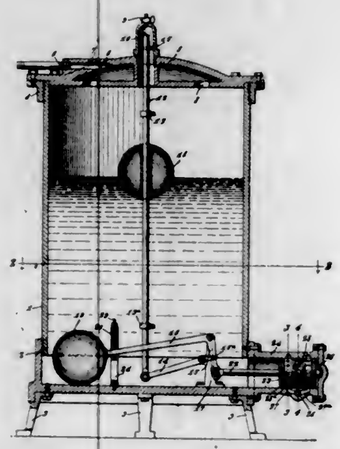
the hand grip elements, fasteners securing the clamping plates together and causing the side flanges to bite into the hand grip elements, and a clamp securing the sharpening and finishing plates together at the other ends thereof.

1,787,373. DISPLAY TRAY FOR USE ON STORE COUNTERS. ELDEN O. HENDERSON, McAllen, Tex. Filed Dec. 31, 1927. Serial No. 243,959. 2 Claims. (Cl. 45—141.)



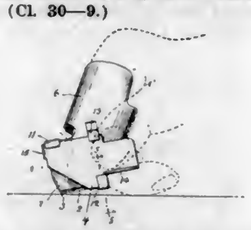
1. In combination, a counter attached support provided with a slot extending longitudinally thereof, a tray greater in width than the support and provided upon its bottom face with a centrally arranged reinforcing brace, the brace being slidably arranged upon the support, and a rib shorter than the brace and extending downwardly from the center thereof and slidably arranged in said slot to prevent the transverse displacement of the tray from the support.

1,787,374. STEAM TRAP. EDMUND T. HEWITT, St. Louis, Mo. Filed June 16, 1928. Serial No. 286,037. 2 Claims. (Cl. 137—103.)



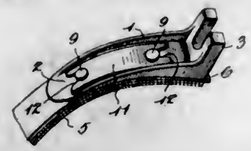
1. A steam trap comprising a reservoir for condensed water, a reciprocable piston controlling a drain in the bottom thereof, a float actuated on a drainage of water from the trap to control said piston, an arm actuated by the float to open a vent in the drain, an auxiliary float on a vertical rod in slidable relation to the arm, a latch controlling the piston, and a pair of fixed collars on the rod at different fluid levels to engage the auxiliary float and set or unset the latch to control the drain.

1,787,375. PAPER CUTTER. MURVALE I. HIGBIE, New York, N. Y. Filed Sept. 5, 1928. Serial No. 303,994. 4 Claims. (Cl. 30—9.)



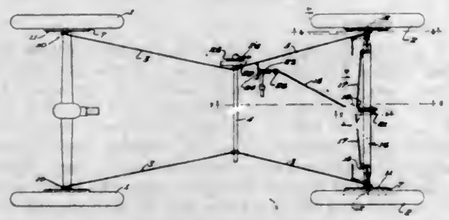
3. A paper cutter, comprising a supporting member, a base extending from the supporting member, a blade fitted against said base, a clamping plate for clamping said blade in position, said clamping plate having a projecting flange acting as a thumb rest, and means extending from said base fitting over said clamping plate for holding the clamping plate in position.

1,787,376. TRANSMISSION BAND. GLENN R. HOFFMAN, Springfield, Ill., assignor, by mesne assignments, to Hoffman-Paulding Company, a Corporation of Michigan. Filed June 20, 1923. Serial No. 646,615. 8 Claims. (Cl. 188—249.)



3. A transmission band comprising a band provided with studs projecting from one face and formed with a reduced diameter, an ear separable from the band and formed with openings to receive the studs of the band, and a spring fastening member in interlocking engagement with the reduced diameter of the studs and securing the ear to the band.

1,787,377. BRAKING MECHANISM FOR AUTOMOBILES AND OTHER MOTOR OR POWER DRIVEN VEHICLES. GLENN R. HOFFMAN, East St. Louis, Ill., assignor to Hoffman-Paulding Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 8, 1928. Serial No. 260,028. 9 Claims. (Cl. 188—10.)

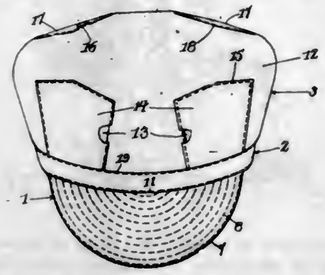


1. In a four wheel braking mechanism including means for simultaneously applying or releasing the brakes of the four wheels, means for releasing the brakes of the steering wheels independent of the means for simultaneously applying and releasing the brakes of the four wheels.

1,787,378. CAP. CAROLINE DILLS HOLLENBECK, Sheridan, Wyo. Filed Apr. 8, 1929. Serial No. 353,450. 1 Claim. (Cl. 2—195.)

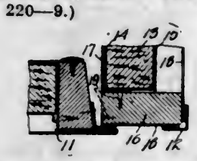
A cap having a flexible body portion providing a head covering including an outer part formed of an integral section provided with means for maintaining it in an upright

position, the said means comprising a pair of front and a pair of rear panels positioned at the front and back of said section, said pairs of panels spaced from each other and having portions of said section interposed therebetween, said panels being offset with respect to the outer face of said section to position the outer faces of said panels out of alignment with respect to the outer face of said section, the panels of each pair being spaced from and opposing



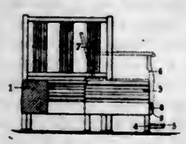
each other sidewise and having a portion of said section interposed therebetween, and spaced rows of stitching connected to said section, each row extending across the top and side marginal portions of a panel for securing the panels in non-aligning position with respect to the outer face of said section and further for securing the panels in position for maintaining said section upright when the cap is worn.

1,787,379. REFRIGERATOR CABINET. ROBERT WINTER HULL, Connersville, Ind., assignor to Rex Manufacturing Company, Connersville, Ind., a Corporation of Indiana. Filed May 5, 1927. Serial No. 189,087. 1 Claim. (Cl. 220—9.)



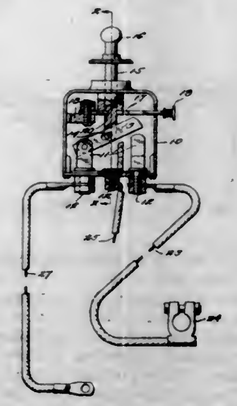
A corner construction for metal refrigerator cabinets comprising a corner pillar forming a spacing and supporting member for the inner and outer metal walls of the cabinet, the said metal walls being secured to the said pillar, a metal facing plate on the front face of the said pillar, the outer metal wall being secured to an adjacent face of the pillar, the said faces extending nearly to meet at the outer corner of the pillar, said plates being doubled back from the corner upon themselves to form reversely extending flanges, a corner iron connecting the ends of the facing plates and being formed to fit around the corner and interlock with the facing plates and binding them together against the pillar to form reenforcing strain-resisting corner construction, said facing plates being maintained in spaced insulated relation to the inner lining of the cabinet by said corner pillar, substantially as set forth.

1,787,380. INVALID BED. ARAM IPLICJIAN, Athens, Greece. Filed Oct. 19, 1928, Serial No. 313,596, and in Germany Aug. 3, 1927. 1 Claim. (Cl. 5—81.)



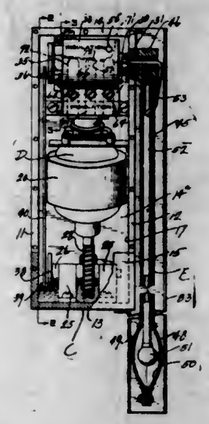
An invalid bed having a mattress provided with a cut-out, said cut-out being adapted for the reception of a detachable mattress portion which completes the mattress, said mattress portion being provided with an underframe and a foot rest and securing means as eyes or the like, for the attachment of a detachable back rest after the mattress portion is pulled out from the bed.

1,787,381. SAFETY SWITCH FOR MOTOR-OPERATED VEHICLES. PLINIO IRIZARRY, Santurce, Porto Rico. Filed June 10, 1927. Serial No. 197,926. 1 Claim. (Cl. 200—15.)



A switch comprising a casing, a plurality of contacts rising from the bottom thereof, binding posts depending from said contacts, a movable blade element pivoted on one of said contacts, a post slidable through the casing and connected with said blade for moving the latter into and out of engagement with the other of said contacts, said post having a notch therein, a slide supported within the casing and slotted to receive said post, and means for operating the slide to move the latter within the notch to hold the post against movement in a given position.

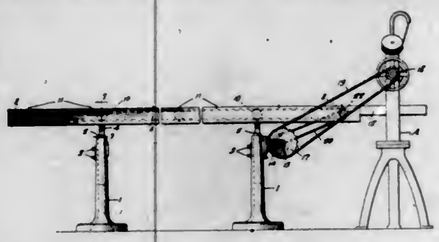
1,787,382. VEHICLE SIGNAL. EVERETT JONES, Lebanon, Ind. Filed June 15, 1925. Serial No. 37,373. 1 Claim. (Cl. 177—329.)



In a vehicle signal the combination of an elongated casing, a motor supported in the casing, substantially midway of the ends thereof, a shaft transverse to the motor rotatably carried at one end of the casing adjacent to an end of the motor, means connecting said shaft with the motor for rotation thereof, a second shaft transverse to the motor carried by the casing beyond the opposite end

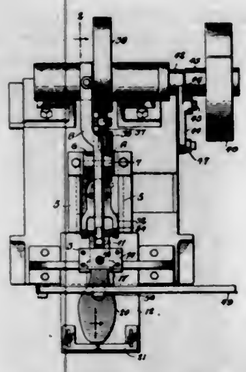
of the motor from the first shaft, a signal semaphore carried by the second shaft, and means connecting said shafts whereby the semaphore carrying shaft will be oscillated upon rotation of the first mentioned shaft.

1,787,383. PORTABLE SIGNATURE CONVEYER. JESSE C. LACY, Richmond, Va. Filed Oct. 28, 1929. Serial No. 403,011. 1 Claim. (Cl. 198—133.)



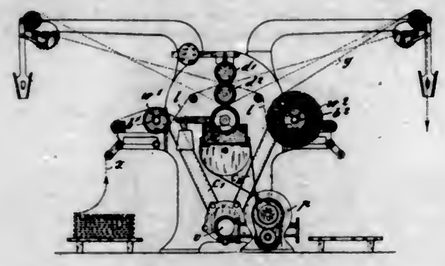
A conveyer of the class described comprising a table of inverted V shape with a slot at its apex, plates having their upper edges ridged to fit in the space formed by the V shape of the table and to which the table is connected, supporting means for some of said plates, each plate having a slot therein extending downwardly from the apex of the ridge, shafts passing through the upper portions of the slots and journaled in the plates, a roller on each shaft and arranged in the slot, an endless member passing over the roller and projections on the endless member, the projections on the upper reach of the endless member passing through the slot during the movement of the member.

1,787,384. SHOE-SOLE SKIVER. SAMUEL A. LEWIS, Derry, N. H., assignor of forty-seven one-hundredths to Ralph H. Barker, Derry, N. H., and George W. Barker, Rochester, N. Y. Filed July 9, 1928. Serial No. 291,344. 6 Claims. (Cl. 12—17.)



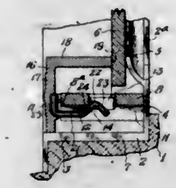
1. A shoe sole skiver, including a substantially U-shaped die having a beveled portion on the inside of the legs of the die, a support for said die, said support having a flat upper surface acting to support the die and prevent the shoe sole from protruding through the die when pressed by a roller, and thereby causing the shoe sole to remain in a certain position for the cutting operation, means for holding a shoe sole so that the heel portion will overlap said die, a depressing roller, means for forcing the depressing roller longitudinally over the die so that the heel portion of said sole will substantially fit said die with certain of the edges projecting beyond the die, and cutting means functioning during the operation of said roller for cutting off said edges.

1,787,385. TREATING DRY WEBS OF WOVEN MATERIAL. HERMANN MALY, Guben, Germany. Filed May 2, 1928, Serial No. 274,582, and in Germany May 10, 1927. 6 Claims. (Cl. 26—49.)



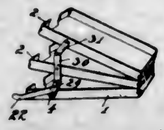
1. The process of treating dry webs of woven material consisting in moistening a wrapping cloth, forming the cloth and web into a roll in alternate layers, and leading a gaseous agent through the roll to uniformly transmit the moisture in the cloth to the web.

1,787,386. MOUNTING FOR GLASS WINDOWS OR THE LIKE. ALBERT H. MARTY, Cleveland, Ohio. Filed Apr. 27, 1929. Serial No. 358,594. 32 Claims. (Cl. 189—78.)



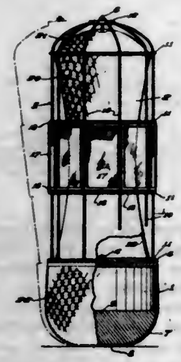
5. In a mounting for glass or the like, a member stationary with relation to said glass and a member comprising a rigid portion and a resilient element and movable with relation to said glass, said movable member being adapted to be automatically yieldingly held against said glass when moved into position in contact with the glass.

1,787,387. PAPER-SORTING DEVICE. CUNO MÄRZ, Schramberg, Germany, assignor to the Firm of Gustav Maier, Schramberg, Germany. Filed May 8, 1926, Serial No. 107,661, and in Germany Nov. 18, 1924. 3 Claims. (Cl. 206—72.)



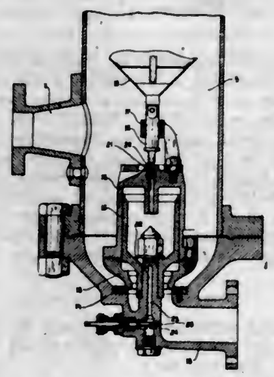
1. In a device for separating and sorting letters and other papers, the combination with a plurality of containers provided with a hinge connection between their rear ends and connected at the side by toggle levers comprising a two legged lever pivoted to the container next above the base container of an arm rigidly connected to a member of the said toggle levers at an angle such as will allow by means of the said arm to turn the said member of the toggle levers around its pivot, thereby to align the toggle levers and thus to lift the containers apart from one another.

1,787,388. LIGHT-REFLECTING DEVICE. CLARENCE GARFIELD MCLEAN, Boston, Mass. Filed Feb. 2, 1928. Serial No. 251,363. 4 Claims. (Cl. 88—1.)



1. A light reflecting device of the class described comprising an upright column-like reflector embodying multiple reflecting surfaces arranged at different relative angles and a band of colored prismatic light transmitting and diffusing panels extending circumferentially around and spaced radially from said reflector between its ends.

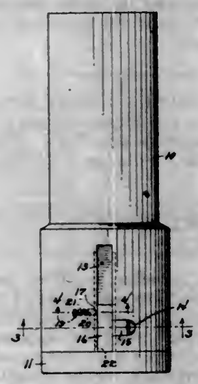
1,787,389. LIQUID-DELIVERING APPARATUS. REINIER MEIJER, Voorschoten, Netherlands, assignor to De Bataafsche Petroleum Maatschappij, The Hague, Netherlands, a Company of the Netherlands. Filed Dec. 27, 1928, Serial No. 328,801, and in the Netherlands Nov. 28, 1928. 3 Claims. (Cl. 137—68.)



1. In liquid delivering apparatus, a float chamber having an inlet and an outlet, an outlet valve, a float, a stationary cylindrical element, a cylindrical member secured to the outlet valve and adapted to telescope with respect to said element, a pressure chamber enclosed by said telescoping member and element, a passage between the float chamber and said pressure chamber, a valve associated with the float and adapted to control said passage, another passage between the said pressure chamber and the said outlet, and means for adjusting the effective cross sectional area of the last said passage.

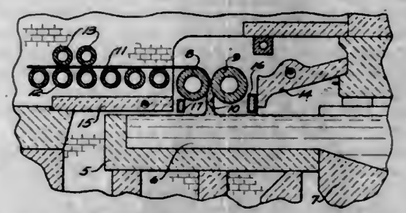
1,787,390. LATCH. GEORGE W. MILLER, Sapulpa, Okla. Filed Oct. 28, 1927. Serial No. 229,429. 2 Claims. (Cl. 220—55.)

1. A latch comprising inner and outer members, said outer member having a slot in the wall thereof and a notch communicating with said slot, a lug on said inner member and adapted to enter said slot and pass into the notch, and a locking bar slidably mounted in said slot and adapted to close the notch when in one position for



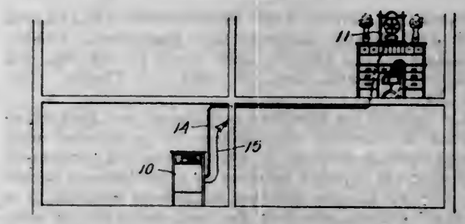
locking the lug therein and when in another position adapted to permit free movement of said lug into and out of the notch.

1,787,391. PROCESS AND APPARATUS FOR PRODUCING SHEET GLASS. OTTO C. MILLER, Charleston, W. Va., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 2, 1927. Serial No. 217,062. 7 Claims. (Cl. 49—33.)



4. In sheet glass apparatus, a receptacle containing a mass of molten glass, a pair of rolls disposed thereabove and arranged to create a sheet forming pass, and means for rotating the rolls in a manner to advance glass upwardly and through the pass to roll the glass into a sheet of predetermined thickness, the sheet being deflected over one of said rolls, the peripheral speed of the roll over which the sheet is deflected being relatively less than the peripheral speed of the other roll, so that the outer surface of the sheet will move relatively faster than the inner surface of the sheet when said sheet is being deflected.

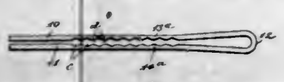
1,787,392. REMOTE CONTROL FOR TALKING MACHINES. WILLIAM R. MOORE, Jr., Hagerstown, Md., assignor to Deca-Disc Phonograph Company, Waynesboro, Pa., a Corporation. Filed Dec. 22, 1927. Serial No. 241,931. 2 Claims. (Cl. 179—100.4.)



1. A talking machine comprising two units, one comprising a cabinet containing the records and operating mechanism therefor including an electric pick-up device

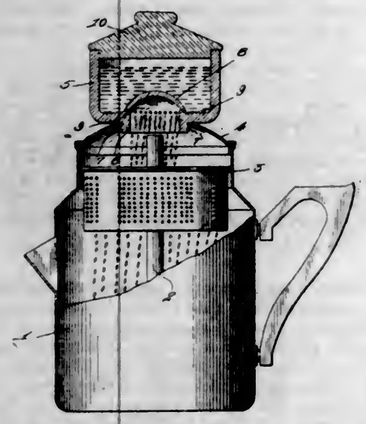
and an amplifier, and the other adapted to contain a speaking unit and mechanism for controlling the operating mechanism in the first-named cabinet, the unit containing the speaking and the controlling mechanism being positioned remotely from the operating mechanism, substantially as set forth.

1,787,393. BOB HOLDER. HARRY NATKIEL, New York, N. Y., assignor to The Rieser Company, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 1, 1927. Serial No. 230,280. 2 Claims. (Cl. 132—50.)



1. A bob holder including a pair of closely spaced legs joined by a substantially semi-circular connecting bight at one end, said legs being of greater width than thickness and said legs intermediate their ends having their confronting faces provided with complementary retaining and placement serrations, which serrations are slightly spaced apart at their projecting edges to define alternately arranged relatively wider clamping spaces.

1,787,394. ATTACHMENT FOR PERCOLATORS. BENNETT RUSSELL, Huntington, W. Va. Filed Jan. 24, 1930. Serial No. 423,211. 2 Claims. (Cl. 53—3.)

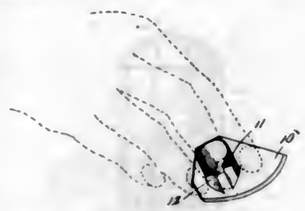


1. An attachment for percolators including a percolating tube carrying a coffee container and an apertured cover disposed over the container and tube, a receptacle having a discharge neck secured in the apertured cover and disposed over the tube and container, means located in the receptacle about the neck to permit a comparatively slow discharge of hot water from the receptacle onto the coffee in the container and to direct the water away from the upper end of the tube, and a cover for the receptacle.

1,787,395. METHOD FOR BLEACHING CELLULOSE OF ANY KIND. LADISLAV RYS, Ruzomberok, Czechoslovakia. Filed Dec. 20, 1928, Serial No. 327,458, and in Czechoslovakia Dec. 19, 1927. 5 Claims. (Cl. 8—2.)

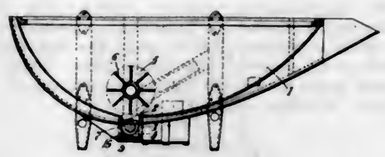
1. A method for bleaching cellulose of any kind which consists in digesting the cellulose to be bleached with diluted aqueous solutions of alkaline reacting compounds, subjecting the digested cellulose to a preliminary bleaching with an aqueous solution of gaseous chlorine in a measured amount less than the total necessary for complete bleaching, washing the pre-bleached cellulose and subjecting the washed cellulose to an after-bleaching with hypochlorites.

1,787,396. CIGAR KNIFE. FRANK W. SALMAR, Chicago, Ill. Filed Mar. 6, 1928. Serial No. 259,555. 1 Claim. (Cl. 131—49.)



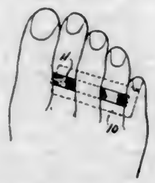
A cigar knife comprising a blade having an arcuate cutting edge all points of said edge lying in the same plane, a spring finger engaging clip secured to the face of the blade and extending upwardly therefrom, said clip having an outwardly flared opening whereby said blade will transversely underlie several fingers of a band to provide a bearing support therefor when said clip is engaged by one of the fingers of the hand.

1,787,397. APPARATUS FOR DISSEMINATING MATERIAL IN FINELY-DIVIDED OR POWDEROUS FORM. JOHN CLIFFORD SAVAGE, London, England. Filed Feb. 6, 1929, Serial No. 337,934, and in Great Britain Feb. 11, 1928. 10 Claims. (Cl. 244—1.)



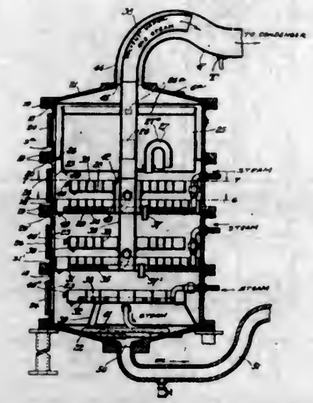
1. Apparatus for disseminating material in a finely divided form comprising a receptacle, a discharge throat depending from said receptacle, a feeding device of paddle wheel form mounted for rotation with small clearance in said throat and means disposed to occupy substantially one half of the cross sectional area of said throat on that side thereof towards which the material tends to be delivered by rotation of said feeding device of such form as to provide a passage for the material the cross sectional area of which progressively enlarges towards the opposite side of the throat where the material is discharged.

1,787,398. TOE SUPPORTER. HENRY W. SIDGREAVES, Newark, N. J. Filed Sept. 7, 1928. Serial No. 304,565. 2 Claims. (Cl. 128—81.)



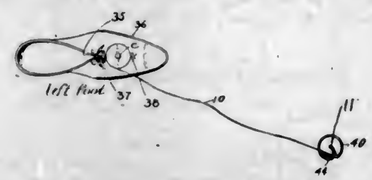
1. As a new article of manufacture, an appliance for treating deformed toes, comprising an elongated base of soft material adapted to be arranged beneath the toes, a strap associated with the base and adapted to be passed over and under the toes of the foot supporting the base in position for use, and a relatively small pad slidably supported on said strap and adapted to singly engage the toe being treated.

1,787,399. DISTILLATION APPARATUS. LOUIS JOHN SIMON, London, England. Filed June 13, 1927, Serial No. 198,631, and in Great Britain July 19, 1926. 3 Claims. (Cl. 202—159.)



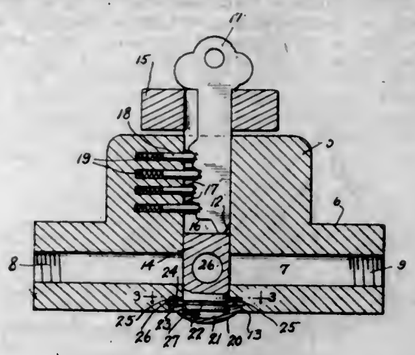
1. A distillation apparatus including a casing, a centrally disposed condensation outlet extending from near the bottom of the casing through the top thereof, an oil outlet at the lower end of said casing, a tank open at its top mounted in said casing adjacent the upper end thereof, said tank having an outlet through its bottom, a plurality of evaporating trays mounted in the casing below the tank, said tank emptying into the uppermost tray and each succeeding tray emptying into the tray immediately below it, and steam-heating coils in certain of said trays, the lowermost tray delivering the separated oil to the oil outlet while the gases of condensation pass upwardly from the tank and trays through the condensation outlet.

1,787,400. GOLF-TEE RETRIEVER. WALLACE D. SMITH, New Britain, Conn. Filed Apr. 15, 1929. Serial No. 355,133. 1 Claim. (Cl. 273—33.)



A golf tee retriever combination comprising a casing having a top wall that is provided with an opening, a button exposed through said opening, a flexible element emerging from said casing and having the free end adapted to be connected to a tee, winding mechanism for said flexible element connected to the other end thereof, ratchet elements for checking said winding mechanism subject to be released by pressing said button, means for supporting said casing upon the upper portion of the body of a shoe so as to position said button in convenient position for pressing by means of a golfclub, and said last named means being in the form of a clip structure having arms that are directed along a diameter for being positioned under the wings of a lace-shoe and held in place by the lacings.

1,787,401. VALVE LOCK. SAMUEL SPANGLER, Glenalum, W. Va. Filed Mar. 19, 1929. Serial No. 348,287. 2 Claims. (Cl. 251—6.)



1. In a valve lock of the character described, comprising a valve casing formed with a continuous passage therethrough, said casing being formed with a bore extending through the casing and across the passage, said casing also being formed with a recess communicating with one end of the bore, a cap bushing seated in said recess and having a socket therein registering with said one end of the bore, a valve stem having an opening for selective registration with said passage, said valve stem being rotatable in the bore and having one end rotatable in said socket, said valve stem being formed with a circumferential groove on that portion seated in said socket, expansible keys mounted in said cap bushing having one end of each engaging with said peripheral groove, and the other end of each engageable with the walls of the recess for locking the valve stem against longitudinal movement, the said valve stem being formed with a diametric key way through a portion of its length and also being formed with peripheral slots communicating with said key way, slidable pins mounted in the casing and projecting through said slots into said key way, and a key insertable in the key way for moving the pins in one direction.

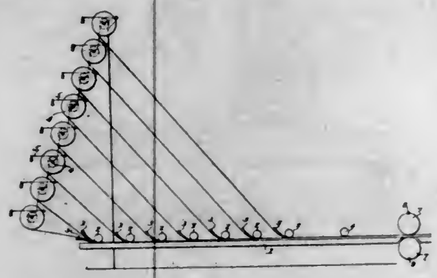
1,787,402. BLEACHING AGENT AND PROCESS OF MAKING THE SAME. WILLIAM B. STODDARD, Stamford, Conn., and VAMAN R. KOKATNUR, New York, N. Y., assignors to Pilot Laboratory, Inc., Arlington, N. J., a Corporation of New Jersey. Filed Feb. 25, 1927. Serial No. 171,068. 10 Claims. (Cl. 23—250.)

1. A drying step in the manufacture of a substantially dry bleaching composition wherein the bleaching agent in substantially wet condition is an intermediate product, which comprises mixing with the wet bleaching agent a compound normally containing water of crystallization but containing less than its normal content of water of crystallization whereby the water present in the bleaching agent will be taken up by the added compound as water of crystallization and a mixture substantially free from water obtained.

1,787,403. STEEL ALLOY INSENSIBLE TO HOT GASES AND VAPORS. BENNO STRAUSS, Essen-Bredeney, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Apr. 5, 1929, Serial No. 352,912, and in Germany Sept. 21, 1928. 3 Claims. (Cl. 148—31.)

1. As a new article of manufacture vessels adapted to be used in the conversion of oil residues to gasoline and consisting of an alloy that has been heated above the critical point Ac3, quickly cooled, and reheated to about 600° to 650° C. said alloy being composed of 0.1 to 0.2 per cent of carbon, 5 to 12 per cent of chromium, 0.2 to 0.5 per cent of vanadium, the remainder steel.

1,787,404. PROCESS OF MANUFACTURING GUM-BONDED LAMINATED BODIES. JOHN M. TAYLOR, Bridgeport, CLIFTON N. JACOBS, Norristown, and ROBERT R. TITUS, Villanova, Pa., assignors, by mesne assignments, to Continental-Diamond Fibre Company, Newark, Del., a Corporation of Delaware. Filed July 9, 1926. Serial No. 121,428. 2 Claims. (Cl. 154—40.)



1. A method of producing laminated gum-bonded bodies consisting of applying to a plurality of strips a synthetic resin in its soluble stage, drying the strips, superimposing the strips in successive order one upon the others, heating each strip prior to its application to the previously assembled strips to melt the resin and immediately thereafter rolling each individual strip into contact with the assemblage to insure complete adhesion of the applied strip thereto.

1,787,405. CHAIN. CHARLES E. DANSEREAU, Warwick Downs, R. I., assignor to D. & S. Jewelry Co., Providence, R. I., a Firm composed of Ernest De Robbio and John Silverman. Filed Mar. 19, 1930. Serial No. 437,050. 3 Claims. (Cl. 59—80.)



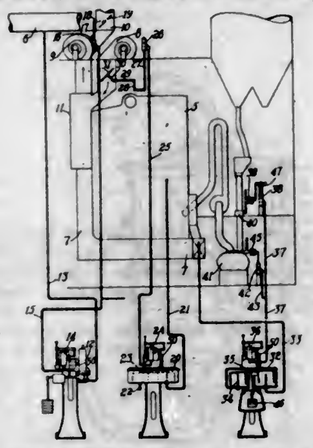
1. An ornamental chain comprising a plurality of solid block links having parallel sides and a transverse bottom recess at each end thereof, and an arm depending from each end and foldable over the adjacent recess, and a plurality of block link units formed of two spaced links connected by parallel pivot bars, the spacing being substantially the width of the solid block links, the adjacent sides of the spaced links being parallel and the said bars being inset from the edges of the spaced links, the solid block links being mounted between the spaced links with the foldable arms folded about the adjacent bars of the spaced link units with the ends of the arms abutting, the inset of said bars bringing the parallel sides of the solid links into substantial contact with the parallel sides of the spaced links, whereby the links are maintained in staggered alignment.

1,787,406. FOUNTAIN PEN. DONALD D. MUNGEN and ROBERT BACK, Chicago, Ill., assignors to The Wahl Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 12, 1926. Serial No. 128,735. 13 Claims. (Cl. 120—52.)



1. In a fountain pen, a removable pen section unit comprising a pen section, a pen irremovably secured thereto, and a feed member detachably positioned in said section and means associated with said member for effecting the easy withdrawal of said member from said section.

1,787,407. COMBUSTION-CONTROL APPARATUS. THOMAS A. PEEBLES, Mount Lebanon, Pa., assignor to John M. Hopwood, Dormont, Pa. Filed July 7, 1928. Serial No. 291,089. 8 Claims. (Cl. 236—14.)

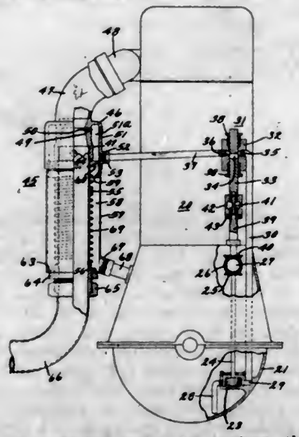


1. The combination with a boiler furnace having forced and induced draft mechanisms, of means for varying the operation of one of said draft mechanisms in accordance with the demand for steam, and means for operating the other of said draft mechanisms in response to variations in the furnace pressure.

1,787,408. CONDENSATION PRODUCT OF AROMATIC SULPHONIC ACIDS. FRIEDRICH POSPIECH, Dresden, Germany, assignor to Chemische Fabrik Pott & Co., Dresden, Germany. Filed Dec. 30, 1926, Serial No. 158,130, and in Germany Dec. 31, 1925. 16 Claims. (Cl. 260—159.)

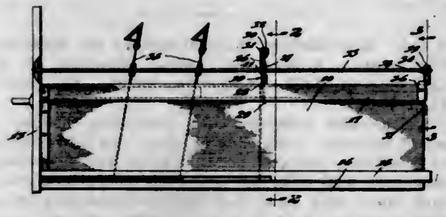
1. The process of producing condensation products of poly-nuclear cyclic compounds with olefines, which comprises heating poly-nuclear cyclic compounds with olefines in the presence of concentrated sulphuric acid to temperatures below 100° C.

1,787,409. OIL-TREATING APPARATUS. CHARLES R. SHORT and CHARLES L. LEE, Dayton, Ohio, assignors to General Motors Research Corporation, Dayton, Ohio, a Corporation of Delaware. Filed May 9, 1923. Serial No. 637,812. 30 Claims. (Cl. 184—6.)



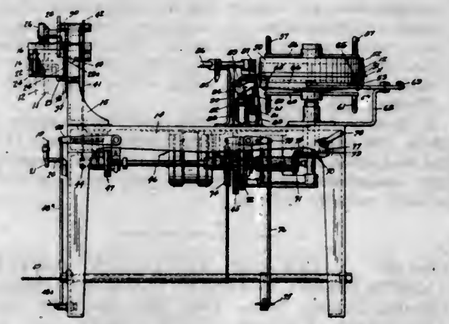
1. In an oil purifying device for engines, the combination of a reservoir forming part of the engine lubricating system, of an oil refining chamber, means for delivering oil from the reservoir to the refining chamber, an exhaust conduit for the engine arranged adjacent the chamber so as to heat the latter, and means whereby the exhaust gases flowing in the exhaust conduit reduce the pressure in the refining chamber below atmospheric.

1,787,410. FILING TRAY. SAMUEL SMILEY, Jr., Cincinnati, Ohio, assignor to The Globe-Werknicke Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 18, 1928. Serial No. 293,669. 9 Claims. (Cl. 129—16.)



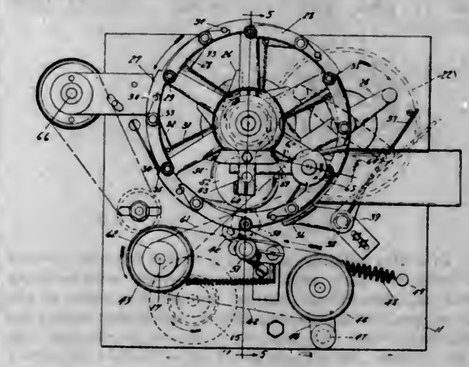
2. A filing device, comprising, a drawer having longitudinal depressions outwardly formed in its side walls, a follower plate mounted within said drawer having its side edges formed for slidable engagement within said depressions, longitudinally disposed rods mounted in said drawer above the respective side walls thereof, and ears extending from the respective opposite edges of said follower plate, said ears traversed by the guide rods for intermediately supporting the guide rods.

1,787,411. APPARATUS FOR REENFORCING TIRE BEADS. HORACE D. STEVENS, Akron, Ohio, assignor to The Firestone Fire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed June 11, 1926. Serial No. 115,249. 17 Claims. (Cl. 154—9.)



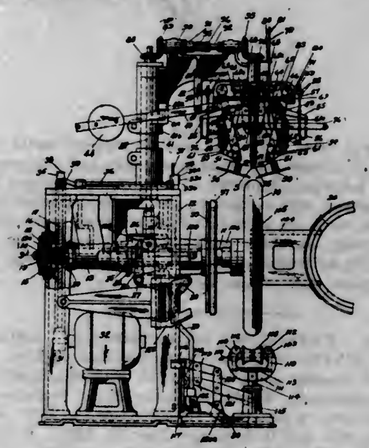
1. Apparatus for reenforcing beads, comprising a horizontally rotatable drum having a fixed central portion and radially expansible sectional portions on either side thereof, said central portion constituting a seat for a bead and said sectional portions constituting folders for folding a strip outwardly about the bead, means for expanding each sectional portion of the drum, bead aligning supports operable toward and from the periphery of the drum to positions for supporting a bead about the central portion of the drum, means for holding the drum against rotation to facilitate mounting a bead thereon, means for rotating the drum, a stitcher blade movable downwardly over the surface of the drum while it is rotating, means for operating the stitcher comprising a lever supporting said blade and pivoted to swing horizontally toward and from the periphery of the drum and also vertically thereof, a roller movable to a position adjacent the periphery of the drum to provide a support on which a flipper may be formed on the bead and against which the stitcher blade may be actuated by said lever, said roller being mounted on a second lever having a cam thereon, and said first lever having a follower thereon for engaging said cam to move said roller to operative position when the stitcher blade is moved toward the drum, and a rest for said first lever to support it away from the drum.

1,787,412. GRINDING OR BUFFING MACHINE. HORACE D. STEVENS, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 6, 1927. Serial No. 211,203. 3 Claims. (Cl. 51—108.)



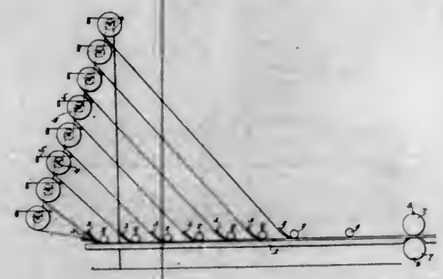
1. A grinding or buffing machine comprising a conveyor wheel, studs carried by said conveyor wheel and adapted to have freely journalled thereon objects to be ground or buffed, a traveling abrasive element, means for intermittently rotating said conveyor wheel to bring each object successively into engagement with said abrasive element, and means for rotating said objects on said studs in a direction counter to the direction of the abrasive element.

1,787,413. TIRE-BUILDING MACHINE. WILLIAM C. STEVENS, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed May 19, 1926. Serial No. 110,143. 12 Claims. (Cl. 154—10.)



1. Apparatus for building tires, comprising a rotatable core, means for rotating the core, a stitcher unit pivoted to swing to or from operating position with the core, means yieldingly holding the stitcher mechanism away from the core, and means for feeding the stitcher mechanism towards the core for a stitching operation on the core, said means including a screw shaft, a split nut connected to the stitcher for releasably engaging the stitcher

1,787,404. PROCESS OF MANUFACTURING GUM-BONDED LAMINATED BODIES. JOHN M. TAYLOR, Bridgeport, CLIFTON N. JACOBS, Norristown, and ROBERT R. TITUS, Villanova, Pa., assignors, by mesne assignments, to Continental-Diamond Fibre Company, Newark, Del., a Corporation of Delaware. Filed July 9, 1926. Serial No. 121,428. 2 Claims. (Cl. 154—40.)



1. A method of producing laminated gum-bonded bodies consisting of applying to a plurality of strips a synthetic resin in its soluble stage, drying the strips, superimposing the strips in successive order one upon the others, heating each strip prior to its application to the previously assembled strips to melt the resin and immediately thereafter rolling each individual strip into contact with the assemblage to insure complete adhesion of the applied strip thereto.

1,787,405. CHAIN. CHARLES E. DANSEREAU, Warwick Downs, R. I., assignor to D. & S. Jewelry Co., Providence, R. I., a Firm composed of Ernest De Robbio and John Silverman. Filed Mar. 19, 1930. Serial No. 437,050. 3 Claims. (Cl. 59—80.)



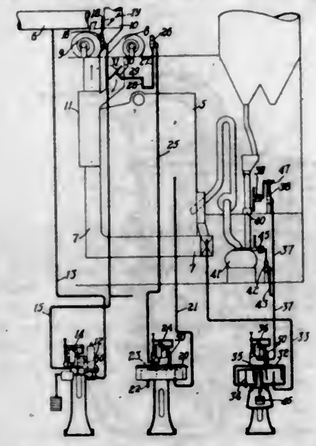
1. An ornamental chain comprising a plurality of solid block links having parallel sides and a transverse bottom recess at each end thereof, and an arm depending from each end and foldable over the adjacent recess, and a plurality of block link units formed of two spaced links connected by parallel pivot bars, the spacing being substantially the width of the solid block links, the adjacent sides of the spaced links being parallel and the said bars being inset from the edges of the spaced links, the solid block links being mounted between the spaced links with the foldable arms folded about the adjacent bars of the spaced link units with the ends of the arms abutting, the inset of said bars bringing the parallel sides of the solid links into substantial contact with the parallel sides of the spaced links, whereby the links are maintained in staggered alignment.

1,787,406. FOUNTAIN PEN. DONALD D. MUNGEN and ROBERT BACK, Chicago, Ill., assignors to The Wahl Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 12, 1926. Serial No. 128,735. 13 Claims. (Cl. 120—52.)



1. In a fountain pen, a removable pen section unit comprising a pen section, a pen irremovably secured thereto, and a feed member detachably positioned in said section and means associated with said member for effecting the easy withdrawal of said member from said section.

1,787,407. COMBUSTION-CONTROL APPARATUS. THOMAS A. PEEBLES, Mount Lebanon, Pa., assignor to John M. Hopwood, Dormont, Pa. Filed July 7, 1928. Serial No. 291,089. 8 Claims. (Cl. 236—14.)

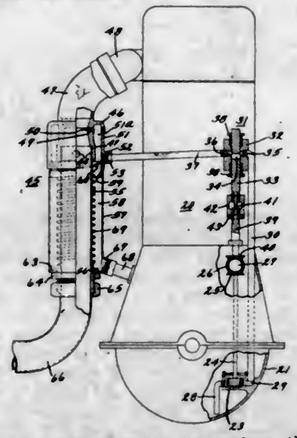


1. The combination with a boiler furnace having forced and induced draft mechanisms, of means for varying the operation of one of said draft mechanisms in accordance with the demand for steam, and means for operating the other of said draft mechanisms in response to variations in the furnace pressure.

1,787,408. CONDENSATION PRODUCT OF AROMATIC SULPHONIC ACIDS. FRIEDRICH POSPIECH, Dresden, Germany, assignor to Chemische Fabrik Pott & Co., Dresden, Germany. Filed Dec. 30, 1926, Serial No. 158,130, and in Germany Dec. 31, 1925. 16 Claims. (Cl. 260—159.)

1. The process of producing condensation products of poly-nuclear cyclic compounds with olefines, which comprises heating poly-nuclear cyclic compounds with olefines in the presence of concentrated sulphuric acid to temperatures below 100° C.

1,787,409. OIL-TREATING APPARATUS. CHARLES R. SHORT and CHARLES L. LEE, Dayton, Ohio, assignors to General Motors Research Corporation, Dayton, Ohio, a Corporation of Delaware. Filed May 9, 1923. Serial No. 637,812. 30 Claims. (Cl. 184—6.)



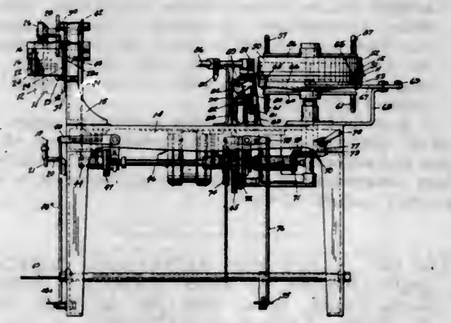
1. In an oil purifying device for engines, the combination of a reservoir forming part of the engine lubricating system, of an oil refining chamber, means for delivering oil from the reservoir to the refining chamber, an exhaust conduit for the engine arranged adjacent the chamber so as to heat the latter, and means whereby the exhaust gases flowing in the exhaust conduit reduce the pressure in the refining chamber below atmospheric.

1,787,410. FILING TRAY. SAMUEL SMILEY, Jr., Cincinnati, Ohio, assignor to The Globe-Werknicke Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 18, 1928. Serial No. 293,669. 9 Claims. (Cl. 129—16.)



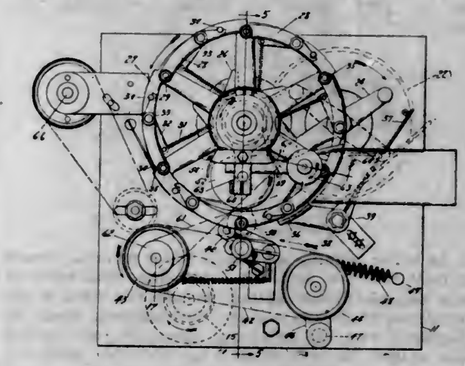
2. A filing device, comprising, a drawer having longitudinal depressions outwardly formed in its side walls, a follower plate mounted within said drawer having its side edges formed for slidable engagement within said depressions, longitudinally disposed rods mounted in said drawer above the respective side walls thereof, and ears extending from the respective opposite edges of said follower plate, said ears traversed by the guide rods for intermediately supporting the guide rods.

1,787,411. APPARATUS FOR REENFORCING TIRE BEADS. HORACE D. STEVENS, Akron, Ohio, assignor to The Firestone Fire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed June 11, 1926. Serial No. 115,249. 17 Claims. (Cl. 154—9.)



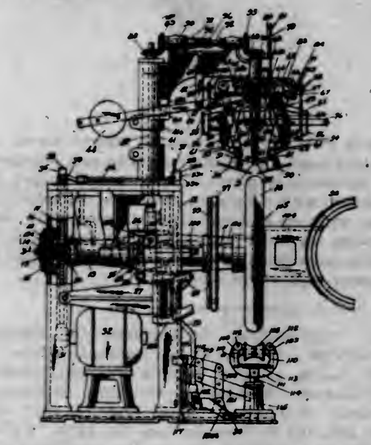
1. Apparatus for reenforcing beads, comprising a horizontally rotatable drum having a fixed central portion and radially expansible sectional portions on either side thereof, said central portion constituting a seat for a bead and said sectional portions constituting folders for folding a strip outwardly about the bead, means for expanding each sectional portion of the drum, bead aligning supports operable toward and from the periphery of the drum to positions for supporting a bead about the central portion of the drum, means for holding the drum against rotation to facilitate mounting a bead thereon, means for rotating the drum, a stitcher blade movable downwardly over the surface of the drum while it is rotating, means for operating the stitcher comprising a lever supporting said blade and pivoted to swing horizontally toward and from the periphery of the drum and also vertically thereof, a roller movable to a position adjacent the periphery of the drum to provide a support on which a flipper may be formed on the bead and against which the stitcher blade may be actuated by said lever, said roller being mounted on a second lever having a cam thereon, and said first lever having a follower thereon for engaging said cam to move said roller to operative position when the stitcher blade is moved toward the drum, and a rest for said first lever to support it away from the drum.

1,787,412. GRINDING OR BUFFING MACHINE. HORACE D. STEVENS, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 6, 1927. Serial No. 211,203. 3 Claims. (Cl. 51—108.)



1. A grinding or buffing machine comprising a conveyor wheel, studs carried by said conveyor wheel and adapted to have freely journalled thereon objects to be ground or buffed, a traveling abrasive element, means for intermittently rotating said conveyor wheel to bring each object successively into engagement with said abrasive element, and means for rotating said objects on said studs in a direction counter to the direction of the abrasive element.

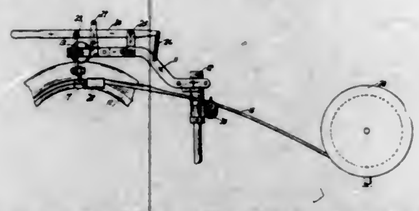
1,787,413. TIRE-BUILDING MACHINE. WILLIAM C. STEVENS, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed May 19, 1926. Serial No. 110,143. 12 Claims. (Cl. 154—10.)



1. Apparatus for building tires, comprising a rotatable core, means for rotating the core, a stitcher unit pivoted to swing to or from operating position with the core, means yieldingly holding the stitcher mechanism away from the core, and means for feeding the stitcher mechanism towards the core for a stitching operation on the core, said means including a screw shaft, a split nut connected to the stitcher for releasably engaging the stitcher

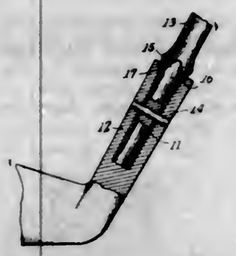
mechanism to the screw shaft, means for operating the split nut, means for rotating the screw shaft from the core rotating means, and automatic means for disconnecting said split nut from said shaft to allow said yielding means to move said stitcher mechanism away from the core.

1,787,414. STRIP-APPLYING DEVICE FOR TIRE-BUILDING MACHINES. WILLIAM C. STEVENS, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 11, 1926. Serial No. 140,803. 2 Claims. (Cl. 154—10.)



1. In a tire building machine a device movable toward and from the core, said device including, strip-applying means movable therein against the opposite sides of the core, means for positioning the strip-applying means by engagement with the core, and means for moving the device against the core adapted by continued movement thereof after the positioning means has engaged the core to urge the strip-applying means against the core.

1,787,415. GOLF CLUB. BOWDEN WASHINGTON, New York, N. Y., assignor to Union Hardware Company, Torrington, Conn., a Corporation of Connecticut. Filed July 13, 1927. Serial No. 205,404. 5 Claims. (Cl. 273—80.)



2. A golf club having a tubular tapered metal shaft socketed in a hozel and reinforced above and adjacent the hozel by having a diameter of said shaft enlarged for a short distance with respect to the inside diameter of the hozel, the walls of said enlargement being more steeply tapered than the shaft or its socketed portion on each side of said enlargement and the shaft being spaced from the top inner edge of the hozel.

1,787,416. CATALYTIC OXIDATION OF ORGANIC COMPOUNDS. ALFRED WOHL, Danzig-Langfuhr, Free City of Danzig, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Aug. 11, 1921, Serial No. 491,530, and in Germany June 22, 1916. 6 Claims. (Cl. 260—57.) (Granted under the provisions of the act of Mar. 3, 1921; 41 Stat. L., 1313.)

1. The process of catalytic oxidation of hydrocarbons to form carbonyl compounds, which comprises causing the vaporized hydrocarbons together with a gas containing free oxygen to pass at a temperature below red heat over a non-volatile catalyst of a non-basic character, which catalyst has the property of being regularly regenerated by free oxygen at said temperature.

1,787,417. CATALYTIC OXIDATION OF ORGANIC COMPOUNDS. ALFRED WOHL, Danzig-Langfuhr, Free City of Danzig, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporatin of Germany. Original application filed Aug. 11, 1921, Serial No. 491,530, and in Germany June 22, 1916. Divided and this application filed Aug. 8, 1929. Serial No. 384,461. 2 Claims. (Cl. 260—57.)

1. The method of oxidizing anthracene, which comprises subjecting anthracene in the vapor phase to oxidation by oxygen in the presence of an oxide of vanadium as a catalyzer, at a temperature of about 300° C. to 500° C.

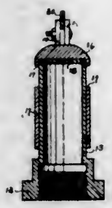
1,787,418. DISPERSION AND METHOD OF MAKING THE SAME. RICHARD W. LEWIS, Montclair, N. J. Filed May 27, 1925. Serial No. 33,304. 18 Claims. (Cl. 134—1.)

1. A dispersion consisting of a dispersing medium, a dispersed substance comprising bitumen, and a dispersing agent containing hydrated metallic oxide, said dispersing medium and said dispersed substance being immiscible in each other, said agent and dispersed substance being of such a nature as to form an adhesive coherent mass in the absence or on removal of the dispersing medium, said dispersing agent being capable of dehydration, non-hydroscopic, insoluble, inert and of such nature as to be capable of being wetted by either of the other elements but resistant to being displaced by one of them when previously wetted by the other, and of such a nature that when completely wetted by the dispersing medium it will aid in the dispersion of the substance to be dispersed therein, and of such a nature as to resist after the removal of the dispersing medium by drying or otherwise being subsequently displaced by exposure to the dispersing medium.

1,787,419. METHOD FOR USING MOTOR FUELS. THOMAS MIDGLEY, Jr., Dayton, Ohio, assignor, by mesne assignments, to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Original application filed Apr. 15, 1922, Serial No. 553,270, Patent No. 1,573,846, dated Feb. 23, 1926. Divided and this application filed Jan. 22, 1926. Serial No. 83,133. 3 Claims. (Cl. 123—1.)

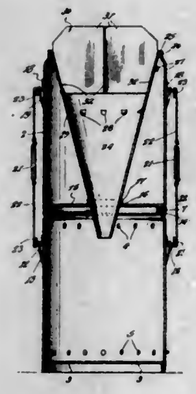
1. A method of utilizing a low compression motor fuel which comprises forming a combustible mixture of the fuel and air, and burning the mixture under a relatively high compression in the presence of vapors of a compounded metallic element.

1,787,420. VALVE FOR MAINTAINING CONSTANT LIQUID HEIGHT IN TANKS. CLARENCE F. PEITZMAN, Dallas County, Iowa. Filed Apr. 29, 1929. Serial No. 358,958. 6 Claims. (Cl. 137—104.)



1. In a device of the class described, a base member designed to be threaded on the end of a pipe, a cylinder having one end integrally formed on said base member and having a bore in communication with said pipe, a sleeve slidably mounted on the free end of said cylinder, and having one end closed, said closed end capable of engagement with the free end of said cylinder when said sleeve is moved in one direction, a resilient member between said closed end and said cylinder, outlet ports in the side of said sleeve and located at a point slightly below said resilient member, and a float actuated bar capable of engaging said closed end of the sleeve.

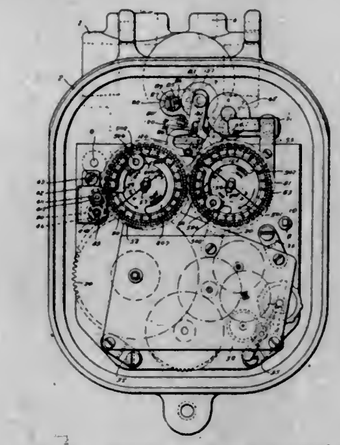
1,787,421. BEETLE TRAP. WILLIAM A. RUDDELL, Cape May Point, N. J., assignor to Right Idea Jap-Beetle Trap Co., Norfolk, Va. Filed Apr. 2, 1929. Serial No. 351,934. 8 Claims. (Cl. 43—107.)



1. An insect trap comprising an insect container, a removable head for the upper end of said container formed with an opening, a bait receptacle seated upon said container and removable therefrom, means to releasably secure said receptacle in place upon said container, means to close the openings in the head of the upper end of said container when the receptacle is removed, a conduit extending vertically through said receptacle and having its lower end portion projecting through the bottom of the receptacle to extend into said container through the opening in the head thereof when the receptacle is in place upon the container, and means projecting above the upper end of said conduit for directing insects into the conduit.

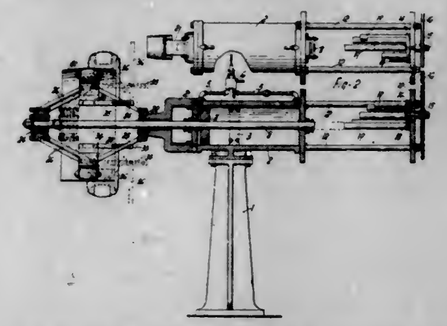
1,787,422. TIME-SWITCH APPARATUS FOR GAS BURNERS. GUY B. COLLIER, Kinderhook, N. Y.; Charles Sager Collier, Chevy Chase, Md., and Elvira Brewster Collier, New York, N. Y., executors of said Guy B. Collier, deceased. Filed Mar. 23, 1928. Serial No. 264,107. 9 Claims. (Cl. 161—9.)

1. In a timing mechanism, a clock-driven dial having an annular slot therein, a rotatable, adjustable lifting arm rearward of said dial carrying a time setting indicator mounted co-axially with said dial and extending through said slot and means for holding the time setting



arm in adjustable position in said slot comprising a screw bolt passing through said slot and having threaded engagement with said arm and binding said arm to said dial.

1,787,423. BAND-STRETCHING MACHINE. WALTER E. HUMPHREY, Kent, Ohio, assignor, by mesne assignments, to The Akron Standard Mold Company, Akron, Ohio, a Corporation of Ohio. Filed June 24, 1927. Serial No. 201,187. 7 Claims. (Cl. 154—9.)



1. In an apparatus for mechanically expanding a continuous band, the combination of a plurality of carriers arranged in a circle, a support for said carriers, means to move the carriers radially of a central axis to expand the circle, said means operating through said support, and a roller mounted in each carrier, the several rollers supporting the band throughout its circumference.

ROLL NO. BY

OFFICIAL GAZETTE
UNITED STATES
PATENT OFFICE

NOV & DEC 1930

VOLS. 400 & 401

MICRO — PHOTO INC

CLEVELAND 3, OHIO

7